February 6, 2019

Joshua P. Cook, P.E.
Environmental Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation
615 Eric Boulevard West
Syracuse, NY 13204
Via e-mail: joshua.cook@dec.ny.gov

RE: Former GE Farrell Road, NYSDEC Site No. 734055
Response to Submittal of the 2016-2018 Vapor Intrusion Activities Report
FILE: 5851/64466

Dear **Mr. Cook**:

On behalf of Lockheed Martin Corporation (LMC), O'Brien & Gere (OBG) is re-submitting the enclosed *2016-2018 Vapor Intrusion Activities Report (Report)*. The Report has been revised to address comments received from the New York State Department of Environmental Conservation (NYSDEC) on January 8, 2019 regarding the initial Report that was provided to NYSDEC on November 15, 2018.

NYSDEC comments received in the January 8, 2018 letter have been addressed in the revised Report, except where noted below:

Comment 8: It is unclear what NYSDEC is requesting to be added to the Report. However, the following sentence was added to footnote 3 in Section 3.2: "It should be noted that there are other factors specifically NYSDOH's air guideline values and its Decision Matrices, that are also used in guiding decisions to reduce exposure to a chemical."

Comment 10: In general, sub-slab ventilation (SSV) is not always measurable via differential pressure measurements. According to the United States Environmental Protection Agency (EPA)[1], sub-slab ventilation (SSV) operates by creating adequate advective flow under the slab to dilute volatile organic compounds (VOCs). SSV is confirmed via smoke testing where the differential pressure was not measurable. The following revision to Footnote 6 was made: "… inches of water and an induced airflow beneath the slab as observed by smoke tests (…)".

Comment 11: Please note that nine new sub-slab soil vapor (SSSV) sampling locations were proposed at the time of that referenced conclusion. Section 7.1 identifies that two additional SSSV sample locations (totaling 11 new SSSV sample locations) were sampled during the July 2017 sampling event. Therefore, we did not revise the attached as suggested in this comment

[1] *EPA Engineering Issue: Indoor Air Vapor Intrusion Mitigation Approaches,* EPA/600/R-08-115, October 2008.

because the original text is accurate as written and the suggested comment was captured later in the text.

Comment 17: It is unclear what of the information provided is expected to be in the report given that the information will be added to the future OMM Plan and is not currently in the SMP. However, in our attempt to clarify our understanding, we have revised the last paragraph of Section 9.3 to read as follows:

> "In addition, an operating, maintenance, and monitoring plan (OMM Plan) will be submitted along with the design, and will describe activities associated with the operating and maintenance of the SSDS as well as indoor air monitoring of the areas not depressurized. The OMM Plan will also describe monitoring activities and pro-active mitigation measures that will be conducted when changes to the building occupancy, build-outs, and HVAC occur to demonstrate that building occupant's health is protected. Following approval from NYSDEC and NYSDOH, the OMM Plan will be included in the site's Site Management Plan (SMP)."

Comment 18: LMC believes that the facts presented in this sentence of Section 10 are important to state as they are relevant to previous and existing conditions from within Building 2. However, we added more specifics to these facts so there is a clearer tie back to the specifics cited in the report.

Comment 24: Please note that the referenced table for Figure 10 reports tetrachloroethene as 1.36 U. Figure 10 shows tetrachloroethene as 1.4 U, which drops one significant figure. Given that the values are the same, there were no changes made to either.

If you have and additional questions or comments regarding the revised Report, please feel free to contact Eric Alongi at (315) 956-6674.

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.

Eric Alongi
Project Associate

Mark A. Distler
Senior Vice President

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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January 8, 2019

Jill Fonte
Lockheed Martin Corporation
497 Electronics Pkwy
Bldg 6, Room 100B
Liverpool, NY 13088

Re: Former GE Farrell Road, Site ID No. 734055
Town of Geddes, Onondaga County
ISCO Summary and Baseline Groundwater Report

Dear Ms. Fonte:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the *2016-2018 Vapor Intrusion Activities Report* (report) for the Former GE Farrell Road site (site), dated November 15, 2018, which was prepared by O'Brien and Gere Engineers, Inc. (OBG) on behalf of the Lockheed Martin Corporation (LMC). The report must be modified as set forth below.

1. Include a certification consistent with Section 1.5 of the Department's guidance document *DER-10: Technical Guidance for Site Investigation and Remediation* dated May 2010, as updated by its Errata Sheet (DER-10).

2. Section 2.1, 3rd Paragraph – Area of Concern 3 (Trichloroethene Tanks) is also pertinent.

3. Section 2.2 – To supplement the details of this section, please append to the report the referenced Technical Memorandums that summarize air sampling events completed at the site prior to 2016 (*e.g.*, February/December 2007, December 2008, September 2015, etc.).

4. Section 2.2, Final Paragraph – "Widewaters Group, Inc." should be "Widewaters Farrell Road II Company, LLC".

5. Section 2.2, Final Paragraph, 1st Sentence – It is worth noting that the proposed occupancy would have included a build-out of the space and installation and operation of a heating, ventilation and air condition (HVAC) system or systems.

6. Section 2.3, 2nd Paragraph, 5th Sentence – It was stated it was possible air conditioners were present in the storage boxes; not "likely".

7. Section 2.3, 3rd Paragraph – It is worth noting that, in general, the indoor air concentrations of petroleum-related compounds were greater during sampling events conducted when vehicles were being stored in the building (*i.e.*, winter events vs. summer/fall events).

8. Section 3.2, Sample Results and Data Evaluation – Please note that the reference in footnote 3 and Table 1 to Appendix C.2 (EPA 2001: Building Assessment and Survey Evaluation (BASE) Database) of the NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006, as updated (NYSDOH SVI guidance) is only one of the factors considered when evaluating air sampling results at a site. It should not be assumed the referenced database (and 90th percentile measurement for TCE) is the sole mechanism for determining actions to address exposures related to soil vapor intrusion. The various background databases in the State's Guidance are used for comparing air data at a site to help understand whether a detection of a chemical in the indoor air at a site may be expected if not affected by soil vapor intrusion. In addition to using background databases, Table 1 should also reference the NYSDOH air guideline values (where available) and the May 2017 Decision Matrices as additional tools used to guide decisions to reduce exposure to a chemical.

9. Section 4, 5th Paragraph – Add to the end of this paragraph, "Additional details regarding the SSDS are included in the Interim Site Management Plan, dated July 2017."

10. Section 4, Footnote 6 – Revise to read, "…pulled into the CTP) or by measuring the pressure differential."

11. Section 5.3, Bullet 3 – There were 11 new sub-slab vapor sampling locations in that round.

12. Section 6, 3rd Paragraph, 2nd Sentence – It is recommended this be revised to read, "…into the slab, then swept, mopped and allowed to dry to apply polyurethane caulk."

13. Section 7, 4th Paragraph, 4th Sentence – It is recommended this be revised to read, "…in the tenant space (referred to as the Joy Carpet room) within Building 2 by OBG…"

14. Section 7, 4th Paragraph, Final Sentence – This should be revised to clarify the trailer was moved into the main area of Building 2. It is suggested it be revised to read, "…placed inside the trailer that was placed inside the main, open area of the building. The location of the trailer and its sample is shown on Figures 7 and 9 as sample IA-XX."

15. Section 7.2, 3rd Paragraph, 2nd Sentence – Revise to read, "…trailer contents were likely a source of TCA, 11DCE and TCE found in indoor air…"

16. Section 8.3, 3rd Paragraph, 2nd Sentence – Revise to read, "No mitigation of the high-bay area was proposed."

17. Section 9.3, Conclusions and Recommendations – Please indicate that the site's Site Management Plan (SMP) will include a requirement for indoor air monitoring of areas not depressurized to verify that the partial depressurization of the building slab (as currently proposed) remains adequate and that additional actions are not needed to address any potential indoor air impacts resulting from soil vapor intrusion. Any changes needed to the SMP plan should be made in consultation with both the NYSDEC and the NYSDOH prior to any proposed changes in use (e.g., any proposed physical or mechanical changes to the building; changes in building occupancy are anticipated, etc.) so that the intended use or uses of a building remain protective for all occupants.

18. Section 10, 3rd Sentence – Delete this sentence.

19. Table 2 – The indoor air background levels for the following compounds should be as listed below.

    a. isopropanol – 250 (listed in guidance as 2-proponal)
    b. 2-butanone – 12
    c. 2,2,4-trimethylpentane – It is not clear why this was listed as 9.5. An appropriate value could be 5.0 with a note that that is the upper fence value for the NYSDOH study of volatile organic chemicals in air of fuel oil heated homes.

20. Figure 2 and 5, SS-09, Feb 2016, 1,1-dichloroethane – This should be 4.53.

21. Figure 6 – The photoionization detector (PID) readings listed are in parts per billion (ppb).

22. Figure 7 - The table below lists necessary corrections for trichlorofluoromethane in July 2017:

IA-04	IA-10	SS-15	SS-06	IA-06
166	347	309	262	369

23. Figure 10 - The table below lists necessary corrections for trichlorofluoromethane in October 2017:

SS-28	SS-29	SS-30	SS-26
76.4	128	134	172

24. Figure 10, SS-23, tetrachloroethene – The tables report this result as 1.4 U. Please rectify.

Please make the necessary modifications and submit the revised report within 30 days of the date of this letter.

Please note, as additional structure data (sub-slab vapor, indoor/outdoor air) are collected, the results must be reported periodically. It is noted that results of sampling must be provided to owners, tenants, etc. as required by the New York State Environmental Conservation Law. It is recommended this report be made available as a reference to current and/or prospective tenants of the site building.

If you have any questions, please do not hesitate to contact me at 315-426-7411 or joshua.cook@dec.ny.gov.

Sincerely,

Joshua P. Cook, P.E.
Professional Engineer 1

ec: Margaret Sheen (NYSDEC OGC)
Reginald Parker (NYSDEC)
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Carey Letts (AECOM)
Mark Distler (OBG)
Eric Along (OBG)
Marco Marzocchi (Widewaters)
Scott Smith (CHA)

FINAL (REVISED) REPORT

2016-2018 Vapor Intrusion Activities Report

Former GE Farrell Road
Syracuse, New York

February 6, 2019

OBG

FEBRUARY 6, 2019| 5851|64466

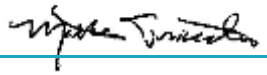
2016-2018 Vapor Intrusion Activities Report

Former GE Farrell Road
Syracuse, New York

Prepared for:

Lockheed Martin Corporation

I, Matthew Traister, certify that I am currently a NYS registered professional engineer and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



MATTHEW TRAISTER, VICE PRESIDENT
PROFESSIONAL ENGINEER LICENSE NO. NY 068979
O'Brien & Gere Engineers, Inc.

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1. INTRODUCTION

This Report describes and presents the results of vapor intrusion (VI) activities conducted by O'Brien & Gere Engineers, Inc. on behalf of the Lockheed Martin Corporation at the former GE Farrell Road Site (Site) between February 2016 and June 2018, inclusive of the following sampling events and mitigation activities:

- Sub-slab soil vapor (SSSV) and indoor air sampling completed in February 2016
- Installation of sub-slab depressurization systems (SSDSs) completed in October 2016
- Post-mitigation indoor air (PMIA) sampling completed in January 2017
- Slab inspection, survey and sealing completed in July 2017
- SSSV and indoor air sampling completed in July 2017
- SSSV and indoor air sampling completed in October 2017
- SSSV screening and sampling conducted in June 2018

The scope of each of the VI activities was developed in concert with, and with the approval of, the New York State Departments of Environmental Conservation and of Health (NYSDEC and NYSDOH). Sample results and documentation of the completed activities were provided to NYSDEC, NYSDOH and the property owner following each activity completion.

This Report concludes with a discussion of NYSDEC-approved VI activities to be conducted in 2019.

2. BACKGROUND

2.1 SITE BACKGROUND

The Site consists of 16.6 acres in an industrial zone setting located on Farrell Road and John Glenn Boulevard in the Town of Geddes, northeast of Routes 690 and 90 and south of the Seneca River. The site includes an industrial building (Building 2) that is approximately 310,500 square feet (sq. ft.) in size, a garage that is approximately 8,000 sq. ft. in size and Class I wetlands on the north side of the site (**Figure 1**). Further north of the site, the Class I wetland area continues north to the Seneca River. Currently, the site is classified as Class 4 on NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites (Site #734055). This report pertains to Building 2 and the maintenance garage.

Building 2 has a slab-on-grade foundation with a footprint of approximately 300,000 sq. ft. It is divided into two areas by a dividing wall: high-bay area on its north end and a low-bay area on its south end. Except for a few small enclosed rooms (boiler room, bathrooms, storage room), the building's interior space is ~90% open in the low-bay area and 100% open in the high-bay area. The dividing wall between the two areas is not air-tight such that indoor air transfers between the two areas. The building is not ventilated except for natural ventilation through exterior doors and minor openings in the high-bay walls. The building is not generally heated except for on-demand space heaters and is not air conditioned.

There are three primary historic source areas relevant to vapor intrusion potential at the Site, referred to as areas of concern (AOC), where interim remedial measures (IRMs) were implemented.[1] The following identifies the location (also shown on **Figure 1**) and gives a description of each AOC:

- AOC 5, located along the west side of Building 2, was an area where nine underground storage tanks (USTs), which reportedly contained both chlorinated and non-chlorinated solvents, and a paint drippings dry well were removed.
- AOC 7, located along the east side of Building 2, was an area of a former fuel oil UST and where drums containing Freon were rinsed.
- AOC 16, located adjacent to the maintenance garage, was an area of a former gasoline UST.

2.2 VAPOR INTRUSION SAMPLING BACKGROUND

In response to a request by NYSDEC in August 2006, Lockheed Martin Corporation (LMC) conducted sampling at Building 2 to assess the potential for VI. LMC retained OBG to conduct the VI sampling, which was performed in February 2007, representing the 2006-2007 heating season. In January 2007, NYSDEC approved the scope of the sampling specified in a work plan and work plan addendum, which included indoor air and sub-slab sampling at five locations (four in the high bay area and one in the low bay area). The results of the sampling were summarized in a Technical Memorandum (TM) dated May 24, 2007, in which additional sampling at locations in the high-bay area was recommended. A copy of the May 24, 2007 TM can be found in **Appendix A.**

In November 2007, NYSDEC approved the additional sampling scope that included repeat sampling at two of the locations in the high bay area. The sampling was conducted in December 2007, representing the 2007-2008 heating season, and the results of which were reported by OBG in a TM, dated February 21, 2008 (see **Appendix A**). Repeat sampling at the same two locations (also referred to as monitoring) was recommended to monitor for changes in indoor air SSSV levels for two compounds, as an alternative to mitigation given that indoor air levels were below background levels and applicable NYSDOH air guideline values.

In May 2008, NYSDEC approved the recommended monitoring scope. The monitoring was conducted in December 2008, representing the 2008-2009 heating season and results were summarized in a TM, dated March

[1] Note that there were other AOCs at the Site where some remedial work was completed, but they are not considered relevant to this investigation. AOC 3 was an area where TCE was used; however, no further action or remediation was required after its investigation (characterization and extent).

12, 2009 (see **Appendix A**). Based on the sample results, OBG, on behalf of LMC, recommended that, in lieu of annual sampling, annual inspections be conducted to identify slab breaches and building modifications that could increase the potential for sub-slab vapors to intrude. NYSDEC approved the annual inspection approach in a December 9, 2009 letter from Javier Perez of NYSDEC to Myron Parkolap of LMC. NYSDEC also informed LMC that additional investigation may be necessary when the building's occupancy changes. At that time, a portion of Building 2 was being used for warehousing with limited occupancy during normal business hours and no occupancy outside of normal business hours. Since 2009, OBG conducted and reported annual slab inspections to NYSDEC. From 2007 to present, the light warehousing use of Building 2 has not changed. In addition, there has been no interior space build-outs (*i.e.,* no enclosing areas, such as new rooms) and no changes were made to the building's HVAC system (*i.e.,* no creation of negative indoor air pressure).

The current owner of the property, Widewaters Farrell Road II Company, LLC (Widewaters) tentatively contracted with two separate tenants to occupy Building 2, with occupancy to begin in the fourth quarter of 2015 or first quarter of 2016. The proposed occupancy planned to include a build-out of the space and installation and operation of heating, ventilating, and air conditioning (HVAC) system(s). As a result of the site's anticipated change of use and at the request of NYSDEC to LMC, OBG conducted sampling within Building 2 and the maintenance garage in September 2015 to acquire updated soil vapor data for the site. In September 2015, NYSDEC approved the scope of the sampling to include eight indoor air and SSSV samples within Building 2 (two locations in the high bay area that had been sampled previously and six in the low bay area that had not been sampled previously), as well as two locations in the maintenance garage. The full list of USEPA Method TO-15 compounds were analyzed for this sampling event. The results of the sampling were summarized in a TM dated December 11, 2015, in which LMC and OBG recommended additional sampling during the 2015-2016 heating season to assess seasonal variability of SSSV and indoor air. Installation of SSDSs at two locations was also recommended pending the additional sampling. A work plan to design and install the SSDSs was submitted to NYSDEC on December 28, 2015 and approved by NYSDEC on January 19, 2016 with modifications.

2.3 SCOPE OF DOCUMENT

The remainder of this report describes VI sampling and mitigation activities that have followed the September 2015 sampling event to date. The discussion of sampling results that follows is primarily limited to the following chlorinated compounds that are known to be related to historic site contamination and have been found to be present in soil vapor under Building 2 fairly consistently and above levels of other chlorinated compounds:

- 1,1,1-Trichloroethane (TCA)
- 1,1-Dichloroethene (11DCE)
- 1,1-Dichloroethane (11DCA)
- Tetrachloroethane (PCE)
- Trichloroethane (TCE)
- Trichlorofluoromethane (Freon 11)

These compounds are considered site-related but the detection of them in indoor air may not always be attributable to historic site contamination. As discussed below, there were indoor sources (owned by the building's tenants) of some of these compounds found to have impacted indoor air. In particular, the discussion of Freon 11 detections is limited because indoor air concentrations were often found above SSSV concentrations, suggesting the presence of indoor sources. Given the large quantity of large wooden crated boxes stored in the building, a complete chemical inventory was never completed. When asked if any tenant could be storing air conditioners, the property owner received a reply that it was "possible." Therefore, this report has limited discussion of Freon 11 results because of its relatively low SSSV concentrations and that indoor air levels appear to be primarily due to indoor sources.

Although petroleum-related compounds, such as benzene, ethylbenzene, toluene and xylene, are known to be related to historic site contamination, they have not been found at appreciable levels in SSSV, and in most cases, have been found at higher levels in indoor air, more often during sampling events conducted when gasoline-powered vehicles were stored in the building. Therefore, there is no discussion about petroleum-related compounds except with respect to the former maintenance garage. However, the data for all compounds included in the analytical method are presented in the attached tables.

3. FEBRUARY 2016 SAMPLING

3.1 OVERVIEW

VI sampling was conducted on February 19, 2016 in accordance with a NYSDEC-approved work plan prepared by OBG, dated December 28, 2015. The purpose of the sampling was to check for temporal variability in relation to the September 2015 sampling results prior to designing two SSDSs. The same sample locations used in September 2015 were re-sampled in February 2016. An additional (third) sample location was added in the former maintenance garage. There were eight locations in Building 2 and three locations in the former maintenance garage, as shown in **Figure 2**. OBG collected a total of 11 sets of samples (each set consisting of one sub-slab sample and one indoor air sample) from within Building 2 and the former maintenance garage. One ambient air sample was collected upwind of both buildings, simultaneously with the sub-slab/indoor air samples.

Samples were collected and analyzed in accordance with the NYSDEC-approved protocols. One duplicate sample of SSSV was collected to assess overall precision. Data were validated and a data usability summary report (DUSR) was prepared and included in this report in **Appendix B**.

3.2 SAMPLE RESULTS AND DATA EVALUATION

Sample results were delivered via email to NYSDEC on March 9, 2016, and are presented in **Table 1**, in units of micrograms per cubic meter (µg/m^3). Laboratory data reports are provided as **Appendix C** and copies of completed field forms are provided as **Appendix D**.

Figure 2 compares the SSSV and indoor air results of six site-related chlorinated compounds from the September 2015 sample event with the results of the February 2016 sample event.

3.2.1 Maintenance Garage

As shown in **Figure 2**, the highest SSSV concentration was 19 µg/m^3 for TCE at location -02. The corresponding indoor air concentration of TCE at location -02 was not detected above the analytical reporting limit of 0.11 µg/m^3.

The second highest SSSV compound was TCA at 3.9 µg/m^3 at location -01. The corresponding indoor air concentration of TCA at location -01 was not detected above the analytical reporting limit of 0.11 µg/m^3. TCA was also detected at a lower concentration in SSSV at location -11 (2.3 µg/m^3), and the corresponding indoor air concentration at location -11 was not detected above the analytical reporting limit of 0.11 µg/m^3.

As shown in Table 1, there were indoor air detections for benzene, toluene, ethylbenzene, and xylene; however, corresponding SSSV concentrations were lower than respective indoor air concentrations or were slightly higher such that the indoor air concentrations could not be primarily due to vapor intrusion. Therefore, indoor air concentrations of these petroleum-related compounds are likely attributable to indoor air sources within the garage[2], and thus not attributable to VI.

Comparison of detected chlorinated compounds from the September 2015 results to the February 2016 results indicate lower SSSV concentrations ranging from 77% (TCA at location -01) to 94% (TCE at location -02). Therefore, there appears to be a temporal variability of SSSV levels with lower levels observed during the heating season than prior to the heating season.

Indoor air TCE concentration at location -02 remained below NYSDOH's air guideline value for TCE of 2.0 µg/m^3, and below typical indoor air background levels[3] of 4.2 µg/m^3. The February 2016 sample results confirm

[2] Tenants within the garage repair/modify automobiles, maintain commercial lawn equipment, and clean-out semi-trailers utilizing numerous solvents, aerosol cleaners and oils.

[3] Defined by the NYSDOH SVI guidance document as the 90th percentile for office and commercial buildings database provided in Appendix C.2 of the guidance document. It should be noted that there are other factors, specially

conclusions established following the September 2015 sample event that VI does not appear to be occurring nor has a potential to occur in the maintenance garage.

3.2.2 Building 2

As shown in **Table 1** and **Figure 2**, the highest SSSV concentrations were in the low-bay area, particularly at locations -06 and -08. Similar to the September results, the primary compounds in SSSV were TCA and 11DCE, with the highest concentrations of these compounds found at locations -08 and -06, respectively. TCE was the third highest compound in SSSV[4], found at its highest concentration at location -06 at two orders of magnitude below 11DCE.

It appears that the September 2015 sample IDs for locations -05 and -06 were inadvertently swapped in the field, as was evidenced in succeeding sampling events. However, at the time of the February 2016 sampling, OBG believed that the sample IDs were not swapped since location-specific details on field forms indicated that sample IDs were accurately matched. The attached appendices and figures showing September 2015 data have not been corrected since they were delivered to NYSDEC as such.

Assuming the September 2015 results for location -05 apply to location -06 and visa-versa, SSSV concentrations for the six chlorinated compounds were lower in February 2016 compared to the September 2015 concentrations. Therefore, the same temporal variability that was found in the former maintenance garage was also observed in Building 2.

The chlorinated compounds with the highest indoor air concentrations were TCA and 11DCE. The other chlorinated compounds were found at approximately an order of magnitude less. In particular, TCE, with the third highest SSSV concentration, was consistently less than 0.18 µg/m^3, which was well below the NYSDOH air guideline value and typical background level defined above. Given that TCA and 11DCE were also the primary SSSV constituents and that indoor sources of these two compounds were not identified, the results confirmed the previous assumption that their indoor air concentrations were likely attributable to VI. The following summarizes the indoor air concentrations of the three compounds, found at the highest concentrations in sub-slab for the three different areas in the building:

		Indoor Air Range (µg/m^3)		
Area	**Sample Location Nos.**	**TCA**	**11DCE**	**TCE**
High-Bay	3, 4	0.72-1.2	2.4-4.6	<0.11-0.15
Low-Bay	6-10	1.5-4.3	4.6-12	<0.11-0.17
Boiler Room	5	0.15	0.31	<0.11
Typical Background*		20.6	<1.4	4.2
***NYSDOH guidance, Appendix C-2, 90th percentile**				

Boiler room and high-bay area indoor air concentrations were less than those found in the low-bay area, which suggests that vapor intrusion was occurring in low-bay area, with some communication of its indoor air to the high-bay area and limited communication to the boiler room.

NYSDOH's air guideline values and its Decision Matrices, that are also used in guiding decisions to reduce exposure to a chemical.

[4] Excluding Freon-11 for the reason discussed in Section 2.3.

3.3 CONCLUSIONS & RECOMMENDATIONS

3.3.1 Maintenance Garage

Temporal variation of SSSV concentrations was evident in comparison to the September 2015 results. The February 2016 sampling confirmed the September 2015 sampling that VI did not appear to be occurring in the garage, that indoor air levels are still below NYSDOH air guideline values, and that the slab is in good condition. OBG, on behalf of LMC, recommended that annual slab inspections be conducted to monitor for slab condition changes in the future, and conduct slab sealing and/or sampling if changes are found that cause a VI pathway. The initial slab inspection was conducted during the 2016/2017 heating season and findings were summarized in a TM dated February 13, 2017. Annual slab inspections have occurred each heating season since then and there have been no changes that required additional sampling or slab sealing.

3.3.2 Building 2

Temporal variation of SSSV concentrations was also evident. VI appears to be occurring for TCA and 11DCE in the low-bay area, which may be communicating into the high-bay area and to a more limited extent into the boiler room. Indoor air concentrations of 11DCE are above typical background levels, defined by NYSDOH.

At the time, it appeared from both the September 2015 and February 2016 results that the highest SSSV locations, -05, -06 and -08, may be the source locations of VI. Therefore, OBG, on behalf of LMC, added a third SSDS to its December 2015 recommendation of mitigation. The purpose of the mitigation systems was to protect against possible future increased VI if slab conditions were to change. NYSDEC verbally approved this recommendation during a conference call on March 21, 2016.

4. INSTALLATION OF SUB-SLAB DEPRESSURIZATION SYSTEMS

Following the February 2016 sampling event, OBG conducted a preliminary SSDS design for three systems within Building 2 at locations -05, -08, and -06. During pre-design testing conducted on February 22, 2016, pressure field extension tests (also referred to as communication tests) were performed to assess if sub-slab conditions were conducive to sub-slab depressurization. Using the communication test results, the location of one vertical system suction point (SSP) was proposed for each system.

OBG prepared a design drawing to show the layout of system components, including proposed SSP locations, interior pipe routes and fan and exhaust locations. The design drawing also showed the location of communication test points (CTPs) used for communication testing and differential pressure measurements recorded at the CTPs during the preliminary design visit. OBG provided the design drawing to Widewaters for its approval of the locations of system components.

Widewaters expressed some concerns regarding the location of system components with respect to future tenant build-outs. Therefore, OBG proposed installation of horizontal sub-slab piping at locations -08 and -06. Through multiple rounds of revisions to the preliminary SSDS design, Widewaters provided approval of the final SSDS design layout (as shown on **Figure 3**), which was submitted to Mr. Joshua Cook of NYSDEC, who provided agency approval of the SSDS design in an email dated June 15, 2016.

OBG began installation of the three SSDSs in July 2016. As a result of scheduling conflicts with the roofing contractor, installation was temporarily postponed until September, when the contractor was available. The installation of the three SSDSs was completed in September 2016.

Following SSDS installation, OBG commissioned the SSDSs on September 20, 2016. SSP vacuum measurements were made and post-mitigation communication testing was performed to identify the area of depressurization[5] induced by each SSDS. The commissioning documented that system operating conditions and the area of depressurization, as well as ventilation,[6] under the intended slab areas. The commissioned communication test results and final system layout are provided on **Figure 4**. The commissioning documentation is provided in **Appendix E**. Additional details regarding the SSDS are included in the Interim Site Management Plan (ISMP) dated July 2017 and revised November 2018. Based on commissioning testing, the systems were depressurizing the following approximate slab areas:[7]

- SSDS-05 (single SSP): 1,900 square feet (ft2)
- SSDS-06 (105-foot trench): 13,700 ft2
- SSDS-08 (25-foot trench): 2,400 ft2

According to the December 2015 mitigation system design and installation work plan, post-mitigation indoor air (PMIA) samples were to be collected from within Building 2 following at least 30 days of continuous SSDS operation. Given that NYSDOH recommends collection of PMIA samples during the heating season (defined by NYSDOH as the period between November 15 and March 31), PMIA sampling was scheduled for December 6, 2016.

[5] Slab areas where the induced differential pressure (above and below the slab) is at least 0.004 inches of water.
[6] In addition to depressurization, sub-slab ventilation (SSV) was also identified. SSV exists when the differential pressure is <0.004 inches of water and an induced airflow beneath the slab as observed by smoke tests (*i.e.,* test smoke released at the CTP is pulled into the CTP).
[7] Subsequent communication testing using additional CTPs was conducted to monitor the depressurization areas, which vary temporally, likely due to variation in the sub-slab soil moisture content.

Prior to PMIA sampling, inspection of the SSDSs on December 6, 2016 found that additional sealing was required along the sub-slab trench associated with SSDS-06. As a result, PMIA sampling was postponed one week to allow the sealant to cure. OBG attempted to collect PMIA samples thereafter; however, OBG found that the fan for SSDS-06 was inadvertently shut down. Given that the SSDSs were not in continuous operation for at least 30 days, the PMIA sampling was again postponed until January 2017.

5. JANUARY 2017 PMIA SAMPLING

5.1 OVERVIEW

The purpose of the January sampling was to assess the effectiveness of the SSDSs in regards to decreasing indoor air concentrations, primarily with respect to TCA and 11DCE as discussed in Section 3. PMIA sampling was conducted on January 17, 2017 in accordance with the NYSDEC-approved December 2015 mitigation system work plan. Immediately prior to collecting the PMIA samples, OBG inspected the SSDSs to verify that they were still operating as commissioned and conducted communication testing to verify that the portions of the slab were still depressurized as commissioned.

Eight PMIA samples were collected at the same indoor air sample locations used during the September 2015 and February 2016 sampling events. One upwind ambient air sample was collected simultaneously with the indoor air samples. Sub-slab sampling was not conducted during the PMIA sampling event. One duplicate sample of indoor air was collected to assess overall precision. Data were validated and a data usability summary report (DUSR) was prepared and included in this report in **Appendix B**.

5.2 RESULTS AND DATA EVALUATION

Sample results were delivered to NYSDEC via email on March 6, 2017 and are presented in **Table 2**. Laboratory data reports are provided in **Appendix C** and copies of completed field forms are provided in **Appendix D**.

Figure 5 shows the results of the January 2017 indoor air samples along with the September 2015 and February 2016 SSSV and indoor air results of the site-related chlorinated compounds. To assess the effectiveness of the SSDSs, the sampling results were compared to the indoor air results obtained in February 2016, which were collected prior to the mitigation system installation and during the prior heating season. As shown in **Figure 5**, there was a mix of no change, decreases and increases of TCA and TCE across the eight locations. 11DCE decreased in seven of the locations but increased in the boiler room location. Given that there were not reductions at all locations in both compounds constituting most of the SSSV (TCA and 11DCE, as discussed in Section 3.2), it appeared that the SSDSs did not effectively reduce VI for one or more of the following potential reasons:

1. SSSV concentrations may have been higher compared to the February 2016 sampling (given the temporal variation discussed in Section 3.3).
2. Indoor air sources of some of the chlorinated compounds are present in portions of the building that could not be inspected during the PMIA sample event.
3. Vapor intrusion may be occurring through one or more of the five possible slab areas found during the 2015 and 2016 slab inspections for Building 2.
4. The SSDSs may not be influencing enough of the slab area to capture enough SSSV.

5.3 CONCLUSIONS AND RECOMMENDATIONS

The SSDSs did not appear to effectively reduce indoor air concentrations for the two primary SSSV compounds at all locations. Based upon the PMIA sample results and discussions during a May 12, 2017 meeting with NYSDEC, LMC, and Widewaters, the following recommendations were developed and outlined in a Vapor Intrusion Investigation Work Plan dated May 23, 2017, and Plan addendum dated June 12, 2017:

1. Seal the five previously identified and documented slab areas that contain potential breaches (*e.g.,* cracks, expansion joints between concrete sections, floor and wall/column intersections, drains, grates, and sump pits). At the same time, conduct another slab inspection using a real-time total volatile organic compound (VOC) analyzer that uses a photoionization detector (PID) to identify if the breaches are potential soil vapor pathways, and seal upon discovery.

2. Conduct indoor air sampling to assess effectiveness of the sealing. Immediately following the indoor air sampling, the SSDSs would be turned off for a 48-hour period in preparation of additional SSSV sampling.
3. Conduct additional SSSV sampling to evaluate SSSV variability at previously sampled locations, and to identify whether SSSV was present at nine new sampling locations.

6. JUNE/JULY 2017 SLAB INSPECTION, SURVEY AND SEALING

The slab inspection and survey was conducted on June 26 and June 27, 2017. Accessible areas of the slab were visually inspected for new or changed potential slab breaches, and surveyed for total VOCs using a PID to identify if the breaches were potentially soil vapor pathways. As part of the inspection, the following potential breaches were surveyed:

- Previously identified potential slab breaches identified during the 2015 and 2016 slab inspections
- Other potential slab breaches not identified during previous slab inspections
- Expansion joints
- Floor drains
- Grates
- Sump pits
- Floor/column intersections
- Floor/wall intersections

The survey identified potential vapor pathways that were expansion joints (between concrete sections), narrow gaps where the floor intersects with some of the columns, and small holes. As can be seen in **Figure 6**, the identified potential soil vapor pathways were centrally located within the low-bay area. The PID survey showed elevated levels of total VOC, when measured within an inch of the slab, ranging between 54 parts per billion (ppb) and 2,600 ppb. There were no potential soil vapor pathways identified in the high-bay area.

The identified potential soil vapor pathways were sealed on July 5 and July 6, 2017 using concrete or polyurethane caulk, as appropriate. For expansion joints, the entire length of the joint between columns were saw-cut approximately 3/8" deep into the slab, then swept, mopped and allowed to dry before applying polyurethane caulk. The gaps at the floor/column intersections were cleaned with a wire brush and sealed with polyurethane caulk. The previously identified potential slab breaches (identified during the 2015 and 2016 slab inspections) did not indicate elevated total VOC concentrations; however, they were sealed with concrete or polyurethane caulk regardless.

7. JULY 2017 SAMPLING

7.1 OVERVIEW

SSSV and indoor air sampling was conducted on July 27, July 31, and August 1, 2017. As discussed in Section 5.3, the purpose for the sampling was as follows:

Assess indoor air concentration changes as a result of the slab sealing

- Assess temporal variations in SSSV concentrations at the previously sampled locations
- Evaluate SSSV concentrations in areas of potential tenant office spaces, as was proposed by the property owner at that time
- Evaluate SSSV concentrations at locations areas not previously sampled, particularly nearest to the former AOC-5 and AOC-8

The July 2017 sampling was approved by NYSDEC in a letter dated June 20, 2017, which referenced the Soil Vapor Investigation Work Plan, dated May 23, 2017, and work plan addendum dated June 12, 2017.

Eight indoor air samples were collected at the same indoor air sample locations used during the September 2015, February 2016, and January 2017 sample events. One upwind ambient air sample was collected simultaneously with the indoor air samples. Immediately prior to collecting the PMIA samples, OBG inspected the SSDSs to verify that they were still operating as commissioned and conducted communication testing at CTPs used during SSDS commissioning to verify that the intended areas of the slab were still depressurized.

At the time of sampling (approximately 3 hours into the 8-hour sampling event and while OBG was conducting a building survey), elevated total VOC concentrations (measured by a PID) were detected near a cargo/work trailer parked within Building 2. Total VOC readings in excess of 4,000 ppb were detected at vents located on the sides of the trailer. When the trailer was opened by the property owner, containers of chemicals (including cleaners and degreasers), three air conditioners, and a lawn mower were found inside. The items inside the trailer were previously identified in the tenant space (referred to as the Joy Carpet room) within Building 2 by OBG in June 2017 during the slab inspection. At that time, the property owner instructed the tenant to remove them from the building before the July sampling event. Instead of removing the items, it appears they were placed inside the trailer that was placed inside the main, open area of the building. The location of the trailer and its sample is shown on **Figures 7** and **9** as sample IA-XX.

OBG notified the property owner about the total VOC readings of the trailer vents. The property owner contacted the trailer owner (Joy Carpet) to immediately remove the contents of the trailer. OBG requested to inventory the chemicals but the property owner declined the request and insisted that they be removed immediately. Given the potential impact of the trailer's contents on indoor air concentrations, an additional indoor air sample was collected from within the trailer, immediately prior to and during the content removal, to characterize the VOCs that could be coming from the trailer into the building. The sample was a grab sample (not integrated over an 8-hour period as the other samples).

Following collection of the indoor air samples, the SSDSs were shut-down to minimize any impact that the sub-slab depressurization may have on SSSV samples. After the SSDSs were shut-down for approximately three days, SSSV samples were then collected at 15 locations (four at previously sampled locations (-04, -05, -06, -08) and 11 at new locations) over a two-day period. When the SSSV sampling was completed, the SSDSs were turned back on.

Samples were collected and analyzed in accordance with the NYSDEC-approved work plan. One duplicate sample of SSSV was collected to assess overall precision. Data were validated and a data usability summary report (DUSR) was prepared and included in **Appendix B**.

7.2 RESULTS AND DATA EVALUATION

Sample results were delivered via email to NYSDEC on August 18, 2017 and are presented in **Tables 3** and **4** for each sample location. Laboratory data reports are provided in **Appendix C** and copies of completed field forms are provided in **Appendix D**.

Figure 7 shows the location of the samples and recent historical SSSV and indoor air results of the six site-related chlorinated compounds. The results of the air sample collected from within the trailer (shown as sample IA-XX) showed concentrations of TCA, 11DCE and TCE higher than the eight indoor air locations, as summarized below:

		Indoor Air Range (µg/m^3)		
Area	**Sample Location Nos.**	**TCA**	**11DCE**	**TCE**
High-Bay	3, 4	0.54-0.57	1.1-1.2	0.24-0.32
Low-Bay	6-10	2.1-3.6	3.4-6.0	0.21-0.37
Boiler Room	5	1.2	2.1	0.14
Trailer	XX	38	6.2	0.67

Given that the trailer air sample was collected after the trailer was opened and while the contents were being removed from the building, the trailer air results likely would have been even higher if the trailer was not opened up before the sample was collected. These results indicated that the trailer contents were likely a source of TCA, 11DCE, and TCE found in indoor air throughout the building. The existence of these indoor sources during previous sampling events is unknown. It is suspected that the sources were contained in a locked room, called the Joy Carpet room, which may have been contributing to indoor air levels for some or all of the previous sampling events.

To evaluate the effectiveness of slab sealing, a comparison of the indoor air results obtained in January 2017 (pre-sealing) and the July 2017 indoor air results should indicate a reduction, primarily for TCA and 11DCE, for locations that were previously sampled within the low-bay area where the sealing occurred (-06 and -08). As shown in **Figure 7**, there was relatively no change in TCA levels and an increase in 11DCE levels. Also worth noting is an increase in PCE and Freon 11 levels and no change in TCE and 11DCA levels. It is possible that the effect of the indoor source (trailer contents) may have masked the effectiveness of the sealing, in that the emissions from the indoor source and its resulting contribution to indoor air may not have been the same in January and July 2017. Therefore, the sampling event was inconclusive with respect to showing the effectiveness of the slab sealing.

Sub-slab sampling locations SS-17 and SS-18 were located within or near the proposed potential tenant office space. The sample results showed no elevated site-related chlorinated compounds, similar to previous sampling events at SS-10.

Of the 11 new SSSV sampling locations, elevated SSSV concentrations of site-related chlorinated compounds were detected just outside the area of depressurization of SSDS-08, specifically at SS-14, SS-15, and SS-16. TCA was found at its highest concentration in SSSV (490,000 µg/m^3) at SS-16, and at an order of magnitude higher than 11DCE at that location. At locations SS-14 and SS-15, 11DCE was higher than TCA, and was found at its highest SSSV concentration (53,300 µg/m^3) at SS-15. These results confirm the previous findings that TCA and 11DCE are the primary SSSV components, and thus the compounds with the highest potential for VI.

7.3 CONCLUSIONS AND RECOMMENDATIONS

The assessment of the effect of the slab sealing was inconclusive. An indoor source of the two primary SSSV compounds was found, which appear to have biased high the indoor air sampling results, and likely previous

sampling results as well. Other slab areas were found with TCA and 11DCE SSSV concentrations higher than those found thus far and were outside the depressurization areas.

The low SSSV results in the proposed potential tenant office space (SS-17 and SS-18) suggested that mitigation in that area (building's south corner) was not warranted at that time. The high SSSV concentrations found in the low-bay area, in comparison to those in the areas of depressurization, indicate that the existing SSDSs were not capturing elevated SSSV beyond the depressurization area of SSDS-08 and SSDS-06.

In its submittal of the sampling results to NYSDEC on August 18, 2017, OBG, on behalf of LMC, OBG proposed re-sampling indoor air at the eight locations following a period of building ventilation after the trailer and its contents were removed from the building, for the purpose of assessing the effect the indoor air source had on the indoor air sample results. In its response on September 7, 2017, NYSDEC approved the resampling and requested that SSSV samples be collected at five new locations to further delineate the extent of elevated SSSV concentrations beyond the areas of depressurization.

To identify the locations of the five additional SSSV sample locations, OBG conducted communication testing surrounding the three SSDSs to reaffirm the areas of depressurization and ventilation induced by each system. New communication test points were installed in the high bay area (north and northeast of SSDS-06) to delineate the area of depressurization induced in this area. The communication testing was conducted between September 20 and September 22, 2017. Following the communication testing, the SSDSs were shut-down.

With the SSDSs shut-down for approximately two days, OBG conducted another PID survey of the building to identify potential indoor air sources or soil vapor pathways. OBG did not identify new sources or pathways during this survey.

Following the survey, OBG began drilling holes through the slab in areas where new SSSV samples were proposed. The holes were screened with a PID and the total VOC concentrations were recorded to identify the extent of sub-slab concentration areas. The sub-slab holes were located either between previous SSSV sample locations, or stepped away from previous SSSV sample locations. As a result, on October 2, 2017 OBG proposed to collect eight additional SSSV samples (three more than requested by NYSDEC). **Figure 8** was sent on October 2, 2017 showing the proposed sampling locations and the screening results.

8. OCTOBER 2017 SAMPLING

8.1 OVERVIEW

The indoor air re-sampling was conducted on October 10, 2017. The purpose of the re-sampling was to assess indoor air concentrations without the indoor source found during the July 2017 sampling.

In addition, eight SSSV samples were then collected on October 13, 2017. The purpose of the sampling was to further delineate the extent of elevated SSSV concentrations beyond the areas of depressurization. Approval for re-sampling of the indoor air and locations of the SSSV samples was received via email from Mr. Joshua Cook of NYSDEC on October 10 and October 11, 2017.

Eight indoor air samples were collected at the same indoor air sample locations used during the September 2015, February 2016, January 2017, and July 2017 sampling events. One upwind ambient air sample was collected simultaneously with the indoor air samples. Immediately prior to collecting the PMIA samples, OBG inspected the SSDSs to verify that they were still operating as commissioned and conducted communication testing at CTPs used during SSDS commissioning to verify that the portions of the slab were still depressurized.

At the time of sampling, the tenant trailer was not in the building but elevated VOC concentrations (measured by a PID) were detected at the bottom of a locked door to the Joy Carpet room. Therefore, an additional indoor air sample was collected from the room by extending sampling tubing under the door.

Following collection of the indoor air samples, the SSDSs were shut-down to minimize any impact that the sub-slab depressurization may have on SSSV samples. After the SSDSs were shut-down for approximately three days, eight SSSV samples were then collected. When the SSSV sampling was completed, the SSDSs were turned back on.

Samples were collected in accordance with NYSDEC-approved protocols. One duplicate sample of SSSV was collected to assess overall precision. Data were validated and a data usability summary report (DUSR) was prepared and included in this report in **Appendix B.**

8.2 RESULTS AND DATA EVALUATION

Sample results were delivered to NYSDEC on November 6, 2017 and are presented in **Tables 5** and **6**. Laboratory data reports are provided in **Appendix C** and copies of completed field forms are provided in **Appendix D**. **Figures 9** and **10** show the location of the samples and recent historical SSSV and indoor air results of the six site-related chlorinated compounds.

To assess indoor air concentrations without the indoor source found during the July 2017 sampling, the October 2017 results were compared to the July 2017 sample results, which are summarized as follows:

			Indoor Air Range (µg/m^3)		
Area	Sample Location Nos.	Sample Event	TCA	11DCE	TCE
High-Bay	3, 4	July 2017	0.54-0.57	1.1-1.2	0.24-0.32
		October 2017	0.33-0.34	0.43-0.48	0.16-0.26
Low-Bay	6-10	July 2017	2.1-3.6	3.4-6.0	0.21-0.37
		October 2017	1.4-2.4	1.4-2.1	0.15-0.46
Boiler Room	5	July 2017	1.2	2.1	0.14
		October 2017	1.6	2.1	0.17

			Indoor Air Range (µg/m^3)		
Area	Sample Location Nos.	Sample Event	TCA	11DCE	TCE
Joy Carpet Trailer	XX	July 2017	38	6.2	0.67
Joy Carpet Room	JY	October 2017	3.7	1.4	0.89

The indoor air results in the high-bay area and low-bay area show an obvious reduction in the two primary SSSV compounds (TCA and 11DCE) after removal of the indoor source. The results also continue to show limited indoor air communication between the low-bay area and the boiler room. It also appears that the Joy Carpet room could still be contributing to TCA levels in the low-bay area since it showed a TCA concentration higher than all other samples. Finally, the results of other compounds from the room show elevated levels of petroleum (likely gasoline) compounds and solvent compounds (acetone and alcohols), which suggest the room may be one of, if not the primary, source of these compounds in indoor air.

As shown in **Figure 10**, elevated SSSV concentrations for the chlorinated compounds were detected in the low-bay area at new sampling locations -24, -25, -26, and -27, which are in the same general area of the other elevated levels found during the July 2017 sampling event (see Section 7.2). Although an order of magnitude lower, elevated concentrations of SSSV were found at new sampling locations in the high-bay area (-29 and -30).

8.3 CONCLUSIONS AND RECOMMENDATIONS

The indoor air source found during the July 2017 sampling event appeared to contribute to TCA and 11DCE concentrations, as well as other compounds, in the low-bay area that communicated to the indoor air in the high-bay area. The tenant responsible for the source may still be contributing to indoor air levels via their locked storage room.

In its November 6, 2017 results submittal to NYSDEC, OBG, on behalf of LMC, indicated its intention to add a fourth SSDS to depressurize the area between SSDS-6 and SSDS-8. The specific new area of depressurization was submitted to Mr. Joshua Cook of NYSDEC in an email on November 13, 2017. OBG indicated that it would submit a pre-design investigation (PDI) work plan for NYSDEC review.

While elevated SSSV concentrations for some chlorinated compounds were detected in the high-bay area, the estimated total mass of sub-slab vapors (based on the sum of the six chlorinated compounds weighted by the slab area) in the high-bay area is <5 percent of the total mass in the existing and proposed depressurization areas. Therefore, no mitigation of the high-bay area was proposed.

9. JUNE 2018 SCREENING AND SAMPLING

9.1 OVERVIEW

After receipt of input from the property owner and discussion with all interested parties regarding the proposed additional mitigation area, a PDI work plan was submitted to NYSDEC on April 5, 2018 that outlined the following investigation activities:

- SSSV screening – To aid in finalizing the specific slab area to be mitigated
- SSSV sampling – To confirm the previously developed correlation between screening levels and speciated compound concentrations
- Communication testing – To estimate the extent of depressurization/ventilation that can be induced by applied vacuum to the sub-slab
- Sub-slab obstruction survey – To assess possible obstructions (e.g., pipes, conduits) that could inhibit pressure field extension of induced sub-slab vacuum

The PDI work plan was approved by NYSDEC on May 18, 2018.

With the existing SSDSs shutdown, OBG began installation and screening of approximately 42 temporary sub-slab screening points and eight SSSV sample points on June 4, 2018. The points were screened for total VOCs utilizing two different PIDs with 10.6 eV and 11.7 eV lamps. The screening took place over a three-day period. Multiple screening measurements were collected at the points to assess bias due to humidity and/or heat generated from drilling.

On June 7, 2018, OBG, NYSDEC, and the property owner and its consultant (CHA Consulting, Inc.) met on-site to discuss the screening results and select SSSV sampling locations, at which OBG proposed to collect 14 samples. Mr. Joshua Cook of NYSDEC verbally accepted the SSSV sampling approach at the on-site meeting.

Beginning June 18, 2018, OBG collected 14 SSSV samples at locations shown on **Figure 11**. Samples were collected and analyzed in accordance with the NYSDEC-approved protocols. One duplicate sample of SSSV was collected to assess overall precision. Data were validated and a data usability summary report (DUSR) was prepared and included in this report in **Appendix B**.

9.2 RESULTS AND DATA EVALUATION

Sample results were delivered to NYSDEC on July 12, 2018 and are presented in **Table 7** for each sample location. Laboratory data reports are provided in **Appendix C** and copies of completed field forms are provided in **Appendix D**.

Figure 11 presents the SSSV results for all samples collected in June 2018. **Figure 12** presents the historical SSSV results for locations sampled in June 2018. As shown in **Figure 11**, there were no locations with detections of site-related compounds similar to those found previously. The highest new SSSV sampling point outside of the existing and proposed areas of depressurization/mitigation is -M2 with a SSSV concentration of 11DCE at 11,500 µg/m^3. When compared to the total chlorinated compound SSSV concentrations, -M2 represents 1% of the mass of SSSV beneath the building. Additional mitigation near -M2, encompassing -29 and -30 as well, would mitigate approximately 2% of the total mass.

Figure 13 is a heat map of interpolated SSSV concentrations of total chlorinated compounds inclusive of the June 2018 sample event. As shown in **Figure 13**, the primary mass of SSSV is located around locations -14, -15, -16, -24, -25, and -27. Beyond these locations, SSSV concentrations decrease significantly to the four corners of the building.

A comparison of **Figure 11** (showing the proposed and existing areas of depressurization/ventilation) and **Figure 13** (showing where the primary mass of SSSV is located), the June 2018 sample results suggest that the proposed and existing areas of depressurization/ventilation will encompass approximately 95% of the total mass of SSSV beneath the building.

9.3 CONCLUSIONS AND RECOMMENDATIONS

The June 2018 SSSV sampling further delineated the extent of the SSSV but did not reveal SSSV locations near the same magnitude of concentrations found previously. The results confirmed that the proposed area for the new mitigation system when combined with the existing systems would depressurized areas of the slab where SSSV concentrations have the greatest potential to create indoor air concentrations greater than the typical indoor air background concentrations.

As of the date of this report, the design approach to mitigate the proposed area on **Figure 11** has been proposed to NYSDEC in an email dated November 13, 2017, and discussed during meetings with NYSDEC and NYSDOH on March 2, 2018 and September 11, 2018. NYSDEC provided approval of this approach in a letter dated September 12, 2018. Communication testing and the sub-slab obstruction survey within the proposed area of depressurization/ventilation have been completed, and an SSDS design is being prepared for NYSDEC review.

In addition, an operating, maintenance, and monitoring plan (OMM Plan) will be submitted along with the design, and will describe activities associated with the operating and maintenance of the SSDS as well as indoor air monitoring of the areas not depressurized. The OMM Plan will also describe monitoring activities and pro-active mitigation measures that will be conducted when changes to the building occupancy, build-outs, and HVAC occur to demonstrate that building occupant's health is protected. Following approval from NYSDEC and NYSDOH, the OMM Plan will be included in the site's Site Management Plan (SMP).

10. SUMMARY

LMC is committed to the protection of the environment and human health at the former GE Farrell Road site. This report documents LMC's efforts to investigate soil vapor and indoor air. It also documents that indoor air quality has been, before and after mitigation, below NYSDOH air guideline values for two of the six site-related compounds that have air guideline values. Indoor air levels are now (after removal of a tenant's indoor air source) documented to be below indoor air background levels of commercial buildings (as defined by NYSDOH) for four of the six site-related compounds. Indoor air levels for Freon 11, as described in this TM, is assumed to be related to indoor sources. 11DCE is the only other site-related compound that appears to be related to VI, and is present below background levels in high bay area and ranges at and slightly above background levels in the low bay area. One of the objectives of the additional mitigation area is to reduce 11DCE levels in the low bay area. The objective of the upcoming OMM Plan is to monitor indoor air levels in the future to assess the need for future mitigation. Therefore, LMC has shown its commitment to characterize and address VI at this site, and will demonstrate with the forthcoming OMM Plan its commitment to continue to protect human health in the future, if and when building conditions change.

Tables

TABLE 1 - VI SAMPLING RESULTS (FEBRUARY 2016) | FORMER GE FARRELL ROAD SITE

Sample ID	FR-AA01-021916	FR-IA01-021916	FR-SS01-021916	FR-IA02-021916	FR-SS02-021916	FR-IA03-021916	FR-SS03-021916	FR-IA04-021916	FR-SS04-021916	FR-IA05-021916	FR-SS05-021916	FR-IA06-021916	FR-SS06-021916	FR-IA07-021916	FR-SS07-021916	FR-IA08-021916	FR-SS08-021916	FR-IA09-021916	FR-SS09-021916	FR-IA10-021916	FR-SS10-021916	FR-IA11-021916	FR-SS11-021916
Sample Location	Ambient	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab
Sample Date	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16	02/19/16
Units	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
1,1,1-Trichloroethane	0.109 U	0.109 U	3.88	0.109 U	2.18 U	1.15	12.3	0.715	24.0	0.153	17.0	1.51	125 U	2.07	21.3	4.34	7640	3.61	76.9	1.84	10.4	0.109 U	2.25
1,1-Dichloroethene	0.079 U	0.079 U	0.793 U	0.079 U	1.59 U	4.64	0.793 U	2.38	14.5	0.309	2.94	8.09	22400	9.20	0.793 U	12.4	6580	7.22	3.61	4.60	0.793 U	0.079 U	0.793 U
cis-1,2-Dichloroethene	0.079 U	0.079 U	0.793 U	0.079 U	1.59 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U	90.8 U	0.079 U	0.793 U	0.079 U	15.8 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U	0.793 U
Carbon tetrachloride	0.566	0.510	1.26 U	0.541	2.52 U	0.535	1.26 U	0.629	1.26 U	0.616	1.26 U	0.547	144. U	0.535	1.26 U	0.547	25.0 U	0.535	1.26 U	0.566	1.26 U	0.522	1.26 U
Tetrachloroethene	0.136 U	0.136 U	2.55	0.136 U	2.71 U	0.136 U	1.36 U	0.136 U	1.67	0.136 U	1.36 U	0.136 U	155. U	0.136	1.36 U	0.156	27.0 U	0.190	1.36 U	0.136 U	1.36 U	0.136 U	1.36 U
Trichloroethene	0.107 U	0.107 U	1.27	0.107 U	19.0	0.145	1.07 U	0.107 U	141	0.107 U	1.07 U	0.167	387	0.172	1.07 U	0.140	21.4 U	0.134	10.3	0.107 U	1.07 U	0.107 U	1.21
Vinyl chloride	0.051 U	0.051 U	0.511 U	0.051 U	1.02 U	0.051 U	0.511 U	0.051 U	0.511 U	0.051 U	0.511 U	0.051 U	58.5 U	0.051 U	0.511 U	0.051 U	10.2 U	0.051 U	0.511 U	0.051 U	0.511 U	0.051 U	0.511 U
1,1,2,2-Tetrachloroethane	1.37 U	1.37 U	1.37 U	1.37 U	2.75 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	157. U	1.37 U	1.37 U	1.37 U	27.3 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloroethane	1.09 U	1.09 U	1.09 U	1.09 U	2.18 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	125. U	1.09 U	1.09 U	1.09 U	21.7 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	0.809 U	0.809 U	0.809 U	0.809 U	1.62 U	1.02	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	1.60	4820	1.95	0.809 U	2.92	2800	1.51	4.53	0.935	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	1.48 U	1.48 U	1.48 U	1.48 U	2.97 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	170. U	1.48 U	1.48 U	1.48 U	29.5 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	0.983 U	19.6	9.24	16.3	22.6	5.56	0.983 U	3.72	0.983 U	0.983 U	0.983 U	9.09	113. U	13.5	0.983 U	13.8	19.6 U	10.3	0.983 U	9.39	0.983 U	13.3	1.02
1,2-Dibromoethane	1.54 U	1.54 U	1.54 U	1.54 U	3.07 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	176. U	1.54 U	1.54 U	1.54 U	30.6 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	1.20 U	1.20 U	5.44	1.20 U	8.78	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	138. U	1.20 U	1.20 U	1.20 U	23.9 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,2-Dichloroethane	0.809 U	0.809 U	0.809 U	0.809 U	1.62 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	92.7 U	0.809 U	0.809 U	0.809 U	16.1 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	0.924 U	0.924 U	0.924 U	0.924 U	1.85 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	106. U	0.924 U	0.924 U	0.924 U	18.4 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,3,5-Trimethylbenzene	0.983 U	4.92	2.64	5.51	7.13	1.53	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	2.36	113. U	3.45	0.983 U	3.49	19.6 U	2.66	0.983 U	2.43	0.983 U	3.70	0.983 U
1,3-Butadiene	0.442 U	0.442 U	0.442 U	0.442 U	0.885 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	50.7 U	0.442 U	0.442 U	0.442 U	8.80 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	1.20 U	1.20 U	1.20 U	1.20 U	2.40 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	138. U	1.20 U	1.20 U	1.20 U	23.9 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,4-Dichlorobenzene	1.20 U	1.20 U	8.30	1.20 U	12.5	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	138. U	1.20 U	1.20 U	1.20 U	23.9 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,4-Dioxane	0.721 U	0.721 U	0.721 U	0.721 U	1.44 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	82.5 U	0.721 U	0.721 U	0.721 U	14.3 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	0.934 U	8.41	0.934 U	7.29	16.0	9.81	0.934 U	5.04	0.934 U	1.08	0.934 U	12.4	203	17.0	0.934 U	16.1	18.6 U	12.1	0.934 U	9.95	0.934 U	7.43	0.934 U
2-Butanone	1.47 U	1.47 U	2.16	1.47 U	7.11	2.83	1.47 U	1.89	1.47 U	1.47 U	1.47 U	2.35	169. U	2.47	1.47 U	3.63	29.4 U	2.61	1.47 U	2.48	1.47 U	1.47 U	1.47 U
2-Hexanone	0.820 U	0.820 U	0.820 U	0.820 U	1.64 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	93.8 U	0.820 U	0.820 U	0.820 U	16.3 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
3-Chloropropene	0.626 U	0.626 U	0.626 U	0.626 U	1.25 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	71.7 U	0.626 U	0.626 U	0.626 U	12.5 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
4-Ethyltoluene	0.983 U	4.75	2.43	6.69	6.44	2.09	0.983 U	1.13	0.983 U	0.983 U	0.983 U	3.26	113. U	4.44	0.983 U	4.53	19.6 U	3.32	0.983 U	3.09	0.983 U	3.75	0.983 U
4-Methyl-2-pentanone	2.05 U	2.05 U	2.05 U	2.05 U	4.10 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	235. U	2.05 U	2.05 U	2.05 U	40.8 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
Acetone	3.21	2.38 U	23.0	2.38 U	4.75 U	2.38 U	2.45	2.38 U	2.38 U	2.38 U	2.64	2.38 U	273 U	2.38 U	2.38 U	2.38 U	47.3 U	2.38 U	7.70	2.38 U	2.57	2.38 U	16.1
Benzene	0.639 U	4.95	2.87	5.27	15.3	11.5	0.639 U	6.07	0.639 U	1.71	0.639 U	13.5	73.2 U	19.7	0.639 U	19.0	12.7 U	15.0	0.652	12.7	0.639 U	4.82	3.14
Benzyl chloride	1.04 U	1.04 U	1.04 U	1.04 U	2.07 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	119. U	1.04 U	1.04 U	1.04 U	20.6 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	1.34 U	1.34 U	1.34 U	1.34 U	2.68 U	1.34 U	1.34 U	1.34 U	2.36	1.34 U	1.34 U	1.34 U	153. U	1.34 U	1.34 U	1.34 U	26.7 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	2.07 U	2.07 U	2.07 U	2.07 U	4.14 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	237. U	2.07 U	2.07 U	2.07 U	41.2 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	0.777 U	0.777 U	0.777 U	0.777 U	1.55 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	88.9 U	0.777 U	0.777 U	0.777 U	15.5 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon disulfide	0.623 U	0.623 U	1.34	0.623 U	1.84	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	71.3 U	0.623 U	0.623 U	0.623 U	12.4 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	1.85
Chlorobenzene	0.921 U	0.921 U	111	0.921 U	88.9	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	105. U	0.921 U	0.921 U	0.921 U	18.3 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	0.528 U	0.528 U	0.528 U	0.528 U	1.06 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	60.4 U	0.528 U	0.528 U	0.528 U	414	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	0.977 U	0.977 U	6.15	0.977 U	1.95 U	0.977 U	0.977 U	0.977 U	21.3	0.977 U	1.06	0.977 U	112. U	0.977 U	0.977 U	0.977 U	19.4 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	1.04	0.886	0.413 U	0.983	1.73	1.03	0.413 U	1.02	0.413 U	0.950	0.413 U	1.14	47.3 U	1.01	0.413 U	1.40	8.22 U	1.01	0.413 U	1.02	0.413 U	1.09	0.413 U
cis-1,3-Dichloropropene	0.908 U	0.908 U	0.908 U	0.908 U	1.82 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	104. U	0.908 U	0.908 U	0.908 U	18.1 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	0.688 U	2.40	2.69	3.82	19.2	3.35	0.688 U	0.984	0.688 U	0.688 U	1.53	2.75	78.8 U	3.58	0.688 U	3.40	13.7 U	4.20	2.52	2.04	0.688 U	2.29	2.15
Dibromochloromethane	1.70 U	1.70 U	1.70 U	1.70 U	3.41 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	195. U	1.70 U	1.70 U	1.70 U	33.9 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Dichlorodifluoromethane	2.58	2.21	1.06	2.31	1.98 U	2.70	1.61	1.78	4.26	1.96	0.989 U	2.26	113. U	1.71	0.989 U	2.71	19.7 U	4.07	1.42	2.82	1.18	2.13	1.58
Ethanol	9.42 U	77.3	9.42 U	277	36.6	23.4	9.42 U	12.4	9.42 U	9.42 U	9.42 U	31.3	1080 U	36.6	9.42 U	42.8	188. U	28.8	26.2	28.1	9.42 U	47.5	9.42 U
Ethyl Acetate	1.80 U	1.80 U	1.80 U	1.80 U	3.60 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	206. U	1.80 U	1.80 U	1.80 U	35.9 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U
Ethylbenzene	0.869 U	10.6	1.69	16.2	24.8	10.7	0.869 U	5.08	0.869 U	1.29	0.869 U	13.2	99.5 U	18.7	0.869 U	19.1	17.3 U	15.6	0.869 U	12.6	0.869 U	9.56	0.973
Freon-113	1.53 U	1.53 U	1.53 U	1.53 U	3.07 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	176. U	1.53 U	1.53 U	1.53 U	30.5 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
Freon-114	1.40 U	1.40 U	1.40 U	1.40 U	2.80 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	160. U	1.40 U	1.40 U	1.40 U	27.8 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Heptane	0.820 U	4.14	4.07	6.72	22.0	5.66	0.820 U	3.23	0.820 U	0.820 U	0.820 U	6.72	93.8 U	9.55	0.820 U	9.26	16.3 U	7.54	0.820 U	5.82	0.820 U	4.07	7.05
Hexachlorobutadiene	2.13 U	2.13 U	2.13 U	2.13 U	4.27 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	244. U	2.13 U	2.13 U	2.13 U	42.5 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	1.23 U	1.23 U	2.83	1.23 U	2.46 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.83	141 U	1.31	1.23 U	1.88	24.5 U	2.53	2.06	2.39	1.23 U	1.23 U	1.23 U
Methyl tert butyl ether	0.721 U	0.721 U	0.721 U	0.721 U	1.44 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	82.6 U	0.721 U	0.721 U	0.721 U	14.3 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Methylene chloride	1.74 U	1.74 U	12.8	1.74 U	11.6	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	5.38	199. U	1.74 U	1.74 U	1.74 U	34.6 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
n-Hexane	0.705 U	7.58	4.30	10.1	23.8	14.1	0.705 U	7.68	0.705 U	1.48	0.705 U	18.7	80.7 U	23.8	0.705 U	22.3	14.0 U	17.0	0.705 U	13.6	0.705 U	6.13	6.41
o-Xylene	0.869 U	15.9	2.97	24.5	32.8	14.2	0.869 U	6.65	0.869 U	1.64	0.869 U	17.2	99.5 U	24.2	0.869 U	25.0	17.3 U	19.9	0.960	16.6	0.869 U	14.2	1.79
p/m-Xylene	1.74 U	43.2	7.47	57.8	93.0	46.0	1.74 U	22.4	1.74 U	5.34	1.74 U	55.6	199. U	77.3	1.74 U	79.9	34.6 U	64.7	2.54	54.7	1.74 U	37.6	5.82
Styrene	0.852 U	0.852 U	0.852 U	0.852 U	1.70 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	97.5 U	0.852 U	0.852 U	0.852 U	16.9 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tertiary butyl Alcohol	1.52 U	1.52 U	1.52 U	1.52 U	3.03 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	174. U	1.52 U	1.52 U	1.52 U	30.2 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tetrahydrofuran	1.47 U	1.47 U	1.47 U	1.47 U	2.95 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	169. U	1.47 U	1.47 U	1.47 U	29.4 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	1.40	46.7	16.0	47.9	129	97.6	2.58	45.2	1.59	10.6	2.91	110	86.3 U	150	3.35	153	15.0 U	127	5.05	105	2.72	42.6	9.80
trans-1,2-Dichloroethene	0.793 U	0.793 U	0.793 U	0.793 U	1.59 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	90.8 U	0.793 U	0.793 U	0.793 U	15.8 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,3-Dichloropropene	0.908 U	0.908 U	0.908 U	0.908 U	1.82 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	104. U	0.908 U	0.908 U	0.908 U	18.1 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	1.76	1.46	1.12 U	1.31	3.55	93.3	3.39	55.9	61.8	14.5	398	86.0	157	96.1	33.8	124	119	108	96.7	75.3	102	1.65	1.12 U
Vinyl bromide	0.874 U	0.874 U	0.874 U	0.874 U	1.75 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	100. U	0.874 U	0.874 U	0.874 U	17.4 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Notes:
1.5 U - Indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

TABLE 2 - DETECTED INDOOR AIR SAMPLE RESULTS (JANUARY 2017) | FORMER GE FARRELL ROAD SITE

LOCATION			Indoor Air	FR-011717-AA		FR-011717-IA-03		FR-011717-IA-04		FR-011717-IAD		FR-011717-IA-05		FR-011717-IA-06		FR-011717-IA-07		FR-011717-IA-08		FR-011717-IA-09		FR-011717-IA-10	
SAMPLING DATE			Background	1/17/2017		1/17/2017		1/17/2017		1/17/2017		1/17/2017		1/17/2017		1/17/2017		1/17/2017		1/17/2017		1/17/2017	
LAB SAMPLE ID			Levels[a]	L1702331-02		L1702331-01		L1702331-03		L1702331-04		L1702331-05		L1702331-06		L1702331-07		L1702331-08		L1702331-09		L1702331-10	
SAMPLE TYPE				Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air	
		Units		Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	1,1-Dichloroethene	ug/m3	<1.4	0.202		**2.8**		**1.55**		**1.5**		1.16		**6.94**		**5.47**		**7.41**		**4.76**		**3.68**	
	1,1,1-Trichloroethane	ug/m3	20.6	0.109	U	1.06		0.66		0.649		0.638		2.37		1.78		2.66		3.96		2.38	
	Carbon tetrachloride	ug/m3	<1.3	0.465		0.415		0.453		0.459		0.459		0.453		0.434		0.434		0.421		0.428	
	Trichloroethene	ug/m3	4.2	0.107	U	0.107	U	0.134		0.145		0.124		0.183		0.156		0.15		0.113		0.107	U
	Tetrachloroethene	ug/m3	15.9	0.156		0.271		0.21		0.217		0.19		0.346		0.366		0.414		0.359		0.278	
	Dichlorodifluoromethane	ug/m3	16.5	2.16		2.06		2.03		2.35		1.96		2.77		2.33		2.48		2.43		1.81	
	Chloromethane	ug/m3	3.7	1.27		1.15		1.27		1.23		1.19		1.19		1.09		1.15		1.24		1.13	
	Ethanol	ug/m3	210	9.42	U	31.8		20.9		20.2		15.9		61.4		58.4		67.8		40.5		30.9	
	Acetone	ug/m3	98.9	2.4		2.38	U	2.38	U	2.38	U	2.38	U	2.38	U	2.38	U	2.38	U	2.38	U	2.38	U
	Trichlorofluoromethane	ug/m3	3.5	**5.96**		**66.3**		**46.9**		**46.7**		**31.5**		**92.7**		**89.9**		**92.7**		**125**		**71.9**	
	Isopropanol	ug/m3	250	1.47		2.18		1.56		1.4		1.23		1.23	U	2.03		2.09		3.39		2.93	
	1,1-Dichloroethane	ug/m3	<0.7	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	**1.76**		**1.32**		**2.07**		**1.31**		**0.947**	
	2-Butanone	ug/m3	12	1.47	U	2.19		1.91		2.04		1.47	U	2.56		2.06		2.85		2.54		2.03	
	n-Hexane	ug/m3	10.2	2.82		**25.3**		**14**		**14.2**		9.23		**46.5**		**47.2**		**53.6**		**40.2**		**26**	
	Benzene	ug/m3	9.4	2.79		18.5		**11.3**		**11.2**		7.64		**33.2**		**33.5**		**38.7**		**28.1**		**19.1**	
	Cyclohexane	ug/m3	NA	0.688	U	3.51		2.07		2.2		1.36		6.61		6.54		7.85		5.58		3.99	
	2,2,4-Trimethylpentane	ug/m3	5.0	2.1		**18.5**		**10.5**		**10.4**		7.1		**35.3**		**34.7**		**40.9**		**29.8**		**20**	
	Heptane	ug/m3	NA	1.57		13.2		7.34		7.21		4.92		23.6		23.7		27.4		20.3		13.6	
	Toluene	ug/m3	43	15.3		**145**		**80.3**		**80.6**		**52.4**		**262**		**262**		**305**		**213**		**144**	
	Ethylbenzene	ug/m3	5.7	1.65		**15.6**		**8.51**		**8.34**		5.6		**28**		**27.2**		**32.3**		**22.2**		**15.2**	
	p/m-Xylene	ug/m3	22.2	6.78		**67.8**		**36.7**		**36.4**		**23.9**		**123**		**120**		**144**		**95.6**		**65.2**	
	o-Xylene	ug/m3	7.9	1.99		**19.5**		**10.4**		**10.7**		6.95		**35.4**		**34.4**		**41.7**		**27.5**		**19.2**	
	4-Ethyltoluene	ug/m3	3.6	0.983	U	3.26		1.63		1.71		1.13		**6**		**5.21**		**7.13**		**4**		3.04	
	1,3,5-Trimethylbenzene	ug/m3	3.7	0.983	U	2.43		1.33		1.33		0.983	U	**4.74**		**4.24**		**5.46**		3.4		2.52	
	1,2,4-Trimethylbenzene	ug/m3	9.5	0.983	U	9.49		4.9		4.83		3.34		**17.7**		**15.6**		**20.6**		**12**		**9.09**	

Notes:

[a] Indoor air concentrations measured in commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile values taken from the EPA 2001

6.8 - Bold value indicates indoor air concentration is above typical background levels

U - indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

TABLE 3 - DETECTED INDOOR AIR SAMPLE RESULTS (JULY 2017) | FORMER GE FARRELL ROAD SITE

LOCATION		Indoor Air	FR-072717-AA	FR-072717-IA-03	FR-072717-IA-04	FR-072717-IA-05	FR-072717-IA-06	FR-072717-IA-07	FR-072717-IA-08	FR-072717-IA-09	FR-072717-IA-10	FR-072717-IA-XX
SAMPLING DATE		Background[a]	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17	27-Jul-17
SAMPLE TYPE			Ambient Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
	Units		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/m^3	20.6	<0.109	0.567	0.54	1.19	2.24	2.75	2.59	3.62	2.07	**37.5**
1,1-Dichloroethene	ug/m^3	<1.4	<0.079	1.2	1.14	**2.11**	**4.52**	**5.99**	**5.04**	**5.23**	**3.4**	**6.15**
Carbon tetrachloride	ug/m^3	<1.3	0.371	0.384	0.39	0.384	0.39	0.409	0.403	0.409	0.403	0.428
cis-1,2-Dichloroethene	ug/m^3	<1.9	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
Tetrachloroethene	ug/m^3	15.9	<0.136	0.61	0.624	1.32	2.02	2.26	2.2	3.14	2.33	2.91
Trichloroethene	ug/m^3	4.2	0.21	0.317	0.242	0.14	0.21	0.371	0.349	0.306	0.36	0.661
Vinyl chloride	ug/m^3	5.5	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
1,1-Dichloroethane	ug/m^3	<0.7	<0.809	<0.809	<0.809	<0.809	**1.66**	**2.28**	**1.92**	**2.04**	**1.24**	**2.28**
1,2,4-Trimethylbenzene	ug/m^3	9.5	<0.983	1.14	1.18	1.83	3.79	4.33	4.42	4.27	2.85	**114**
1,2-Dichloroethane	ug/m^3	<0.9	<0.809	**1.33**	**1.4**	**4.21**	**5.3**	**5.87**	**5.46**	**6.03**	**10.5**	**6.31**
1,3,5-Trimethylbenzene	ug/m^3	3.7	<0.983	<0.983	<0.983	<0.983	0.988	1.13	1.17	1.13	<0.983	**38.2**
2,2,4-Trimethylpentane	ug/m^3	NA	<0.934	0.995	<0.934	1.64	3.69	4.14	4.45	4.53	2.73	307
2-Butanone	ug/m^3	12	<1.47	1.48	<1.47	2.01	2.81	2.78	2.73	3.36	3.98	3.92
2-Hexanone	ug/m^3	NA	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	0.836	<0.820
4-Ethyltoluene	ug/m^3	3.6	<0.983	<0.983	<0.983	<0.983	<0.983	1.03	1.06	1.06	<0.983	**20.9**
4-Methyl-2-pentanone	ug/m^3	NA	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	2.69
Acetone	ug/m^3	98.9	8.98	14.3	13.9	21.9	23.4	25.7	24.2	27.1	29.5	75.3
Benzene	ug/m^3	9.4	<0.639	0.735	0.728	1.35	2.17	2.57	2.44	2.54	2.86	**9.74**
Chloromethane	ug/m^3	3.7	0.925	0.966	0.913	1.12	1.05	1.16	1.07	1.09	1.12	1.31
Dichlorodifluoromethane	ug/m^3	16.5	1.51	1.5	1.65	1.75	1.77	1.78	2.13	1.73	1.88	1.56
Ethanol	ug/m^3	210	<9.42	<9.42	<9.42	<9.42	<9.42	<9.42	<9.42	<9.42	<9.42	152
Ethylbenzene	ug/m^3	5.7	<0.869	1.02	0.916	1.52	3.25	3.89	3.79	3.87	2.59	**30.5**
Heptane	ug/m^3	NA	<0.820	<0.820	<0.820	<0.820	1.47	1.81	1.69	2.04	1.4	43
Isopropanol	ug/m^3	250	<1.23	1.51	1.55	4.08	5.53	6.34	5.7	5.9	3.88	28.8
n-Hexane	ug/m^3	10.2	<0.705	<0.705	<0.705	0.722	1.25	1.56	1.54	1.62	1.24	**36.7**
o-Xylene	ug/m^3	7.9	<0.869	1.51	1.43	2.45	4.95	5.91	5.78	5.91	4.23	**69.1**
p/m-Xylene	ug/m^3	22.2	<1.74	3.52	3.2	5.21	11.3	13.4	13.2	13.3	8.69	**123**
Styrene	ug/m^3	1.9	<0.852	<0.852	<0.852	0.852	1.18	1.57	1.41	1.4	1.76	**2.23**
Tertiary butyl Alcohol	ug/m^3	NA	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52	2.39
Toluene	ug/m^3	43	4.37	12.2	7.39	14.1	25.3	33.6	30.8	31.7	25.8	**145**
Trichlorofluoromethane (R11)	ug/m^3	18.1	1.43	**154**	**166**	**215**	**369**	**380**	**383**	**393**	**347**	**391**

Notes:

[a]Indoor air concentrations measured in commercial and public buildinngs that do not have vapor intrusion. The values are the 90th percentile values taken from the EPA 2001.

6.8 - Bold value indicates indoor air concentration is above typical background levels.

<6.8 - Indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

TABLE 4 - SUB-SLAB SAMPLE RESULTS (JULY 2017) | FORMER GE FARRELL ROAD SITE

LOCATION		FR-073117-SS-04	FR-080117-SS-05	FR-080117-SS-06	FR-080117-SS-08	FR-080117-SS-12	FR-080117-SS-13	FR-080117-SS-14	FR-080117-SS-15	FR-080117-SS-16	FR-073117-SS-17	FR-073117-SS-18	FR-073117-SS-19	FR-073117-SS-20	FR-073117-SS-21	FR-073117-SS-22
SAMPLING DATE		31-Jul-17	1-Aug-17	1-Aug-17	1-Aug-17	1-Aug-17	1-Aug-17	1-Aug-17	1-Aug-17	1-Aug-17	31-Jul-17	31-Jul-17	31-Jul-17	31-Jul-17	31-Jul-17	31-Jul-17
SAMPLE TYPE		Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
	Units	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/m^3	97.1	18.9	157	3750	314	470	14800	41700	490000	18.3	11.3	8.62	21.2	62.7	18.7
1,1-Dichloroethene	ug/m^3	10.2	<0.793	34300	4480	8680	2050	32000	53500	50400	<0.793	<0.793	1.26	<0.793	4240	<0.793
Carbon tetrachloride	ug/m^3	<4.20	<1.26	<172	<21.9	<45.5	<12.6	<188	<46.2	<1120	<1.26	<1.26	<1.26	<1.26	<12.6	1.5
cis-1,2-Dichloroethene	ug/m^3	<2.64	<0.793	<108	<13.8	<28.7	<7.93	<119	37.9	<706	<0.793	<0.793	<0.793	<0.793	<7.93	<0.793
Tetrachloroethene	ug/m^3	18.6	4.33	<185	50.8	<49.0	28.3	<203	1170	6350	1.49	1.44	1.76	<1.36	<13.6	4.69
Trichloroethene	ug/m^3	1300	<1.07	1410	39	100	<10.7	290	1120	<957	2.33	1.38	<1.07	<1.07	466	175
Vinyl chloride	ug/m^3	<1.71	<0.511	<69.8	<8.90	<18.5	<5.11	<76.4	35.8	<455	<0.511	<0.511	<0.511	<0.511	<5.11	<0.511
1,1,2,2-Tetrachloroethane	ug/m^3	<4.58	<1.37	<187	<23.9	<49.6	<13.7	<205	<50.5	<1220	<1.37	<1.37	<1.37	<1.37	<13.7	<1.37
1,1,2-Trichloroethane	ug/m^3	<3.64	<1.09	<149	<19.0	<39.4	<10.9	<163	137	<971	<1.09	<1.09	<1.09	<1.09	<10.9	<1.09
1,1-Dichloroethane	ug/m^3	<2.70	<0.809	13400	2640	1720	425	29800	53400	15300	<0.809	<0.809	<0.809	<0.809	639	<0.809
1,2,4-Trichlorobenzene	ug/m^3	<4.95	<1.48	<203	<25.8	<53.7	<14.8	<222	<54.6	<1320	<1.48	<1.48	<1.48	<1.48	<14.8	<1.48
1,2,4-Trimethylbenzene	ug/m^3	<3.28	<0.983	<134	<17.1	<35.5	<9.83	<147	<36.1	<875	<0.983	<0.983	<0.983	<0.983	<9.83	<0.983
1,2-Dibromoethane	ug/m^3	<5.13	<1.54	<210	<26.7	<55.6	<15.4	<230	<56.5	<1370	<1.54	<1.54	<1.54	<1.54	<15.4	<1.54
1,2-Dichlorobenzene	ug/m^3	<4.01	<1.20	<164	<20.9	<43.5	<12.0	<180	<44.2	<1070	<1.20	<1.20	<1.20	<1.20	<12.0	<1.20
1,2-Dichloroethane	ug/m^3	<2.70	<0.809	<110	<14.1	<29.3	<8.09	<121	90.3	<720	1.93	<0.809	3.83	<0.809	<8.09	<0.809
1,2-Dichloropropane	ug/m^3	<3.08	<0.924	<126	<16.1	<33.4	<9.24	<138	<34.0	<823	<0.924	<0.924	<0.924	<0.924	<9.24	<0.924
1,3,5-Trimethylbenzene	ug/m^3	<3.28	<0.983	<134	<17.1	<35.5	<9.83	<147	<36.1	<875	<0.983	<0.983	<0.983	<0.983	<9.83	<0.983
1,3-Butadiene	ug/m^3	<1.48	<0.442	<60.4	<7.70	<16.0	<4.42	<66.1	<16.3	<394	<0.442	<0.442	<0.442	<0.442	<4.42	<0.442
1,3-Dichlorobenzene	ug/m^3	<4.01	<1.20	<164	<20.9	<43.5	<12.0	<180	<44.2	<1070	<1.20	<1.20	<1.20	<1.20	<12.0	<1.20
1,4-Dichlorobenzene	ug/m^3	<4.01	<1.20	<164	<20.9	<43.5	<12.0	<180	<44.2	<1070	<1.20	<1.20	<1.20	<1.20	<12.0	<1.20
1,4-Dioxane	ug/m^3	<2.40	<0.721	<98.4	<12.5	<26.1	<7.21	<108	<26.5	<641	<0.721	<0.721	<0.721	<0.721	<7.21	<0.721
2,2,4-Trimethylpentane	ug/m^3	<3.12	<0.934	<128	<16.3	<33.8	<9.34	<140	<34.3	<831	1.46	<0.934	1.74	<0.934	<9.34	<0.934
2-Butanone	ug/m^3	<4.93	<1.47	<201	<25.6	<53.4	<14.7	<221	<54.3	<1320	2.32	<1.47	1.94	<1.47	<14.7	<1.47
2-Hexanone	ug/m^3	<2.73	<0.820	<112	<14.3	<29.6	<8.20	<123	<30.1	<729	<0.820	<0.820	<0.820	<0.820	<8.20	<0.820
3-Chloropropene	ug/m^3	<2.09	<0.626	<85.5	<10.9	<22.6	<6.26	<93.6	<23.0	<557	<0.626	<0.626	<0.626	<0.626	<6.26	<0.626
4-Ethyltoluene	ug/m^3	<3.28	<0.983	<134	<17.1	<35.5	<9.83	<147	<36.1	<875	<0.983	<0.983	<0.983	<0.983	<9.83	<0.983
4-Methyl-2-pentanone	ug/m^3	<6.84	<2.05	<280	<35.6	<74.2	<20.5	<307	<75.4	<1830	<2.05	<2.05	<2.05	<2.05	<20.5	<2.05
Acetone	ug/m^3	<7.91	5.94	<325	<41.3	<85.8	<23.8	<356	<87.4	<2120	13.6	4.37	47.7	10.2	<23.8	3.61
Benzene	ug/m^3	<2.13	<0.639	<87.2	<11.1	<23.1	<6.39	<95.5	65.8	<569	1.32	<0.639	1.76	<0.639	<6.39	<0.639
Benzyl chloride	ug/m^3	<3.45	<1.04	<141	<18.0	<37.4	<10.4	<155	<38.1	<922	<1.04	<1.04	<1.04	<1.04	<10.4	<1.04
Bromodichloromethane	ug/m^3	9.45	<1.34	<183	<23.3	<48.4	<13.4	<200	<49.2	<1190	<1.34	<1.34	<1.34	<1.34	<13.4	2.24
Bromoform	ug/m^3	<6.90	<2.07	<282	<36.0	<74.8	<20.7	<309	<76.0	<1840	<2.07	<2.07	<2.07	<2.07	<20.7	<2.07
Bromomethane	ug/m^3	<2.59	<0.777	<106	<13.5	<28.1	<7.77	<116	<28.5	<691	<0.777	<0.777	<0.777	<0.777	<7.77	<0.777
Carbon disulfide	ug/m^3	<2.08	<0.623	<85.0	<10.8	<22.5	<6.23	<93.1	<22.9	<554	<0.623	<0.623	<0.623	<0.623	<6.23	2.59
Chlorobenzene	ug/m^3	<3.07	<0.921	<126	<16.0	<33.3	<9.21	<138	<33.8	<820	<0.921	<0.921	<0.921	<0.921	<9.21	<0.921
Chloroethane	ug/m^3	<1.76	<0.528	<72.0	433	<19.1	<5.28	1550	7390	755	<0.528	<0.528	<0.528	<0.528	<5.28	<0.528
Chloroform	ug/m^3	47.5	2.61	<133	<17.0	<35.3	<9.77	<146	182	<869	<0.977	<0.977	<0.977	<0.977	14.5	22
Chloromethane	ug/m^3	<1.38	<0.413	<56.4	<7.19	<14.9	<4.13	<61.7	<15.2	<368	0.43	<0.413	0.644	<0.413	<4.13	<0.413
cis-1,3-Dichloropropene	ug/m^3	<3.03	<0.908	<124	<15.8	<32.8	<9.08	<136	<33.4	<808	<0.908	<0.908	<0.908	<0.908	<9.08	<0.908
Cyclohexane	ug/m^3	<2.30	<0.688	<94.0	<12.0	<24.9	<6.88	<103	<25.3	<613	<0.688	<0.688	1.29	<0.688	<6.88	<0.688
Dibromochloromethane	ug/m^3	<5.68	<1.70	<233	<29.6	<61.6	<17.0	<255	<62.6	<1520	<1.70	<1.70	<1.70	<1.70	<17.0	<1.70
Dichlorodifluoromethane	ug/m^3	12.4	3.07	<135	<17.2	<35.8	<9.89	<148	<36.3	<880	1.25	2.55	2.59	1.06	<9.89	1.12
Ethanol	ug/m^3	<31.5	<9.42	<1290	<164	<341	<94.2	<1410	<347	<8400	<9.42	<9.42	<9.42	<9.42	<94.2	<9.42
Ethyl Acetate	ug/m^3	<6.02	<1.80	<246	<31.3	<65.2	<18.0	<270	<66.3	<1610	<1.80	<1.80	<1.80	<1.80	<18.0	<1.80
Ethylbenzene	ug/m^3	<2.90	<0.869	<119	<15.1	<31.4	<8.69	<130	<31.9	<773	1.13	<0.869	0.925	<0.869	<8.69	<0.869
Freon-113	ug/m^3	<5.11	<1.53	<209	<26.7	<55.4	<15.3	<229	<56.3	<1360	<1.53	<1.53	<1.53	<1.53	<15.3	<1.53
Freon-114	ug/m^3	<4.66	<1.40	<191	<24.3	<50.5	<14.0	<209	<51.4	<1240	<1.40	<1.40	<1.40	<1.40	<14.0	<1.40
Heptane	ug/m^3	<2.73	<0.820	<112	<14.3	<29.6	<8.20	<123	<30.1	<729	1.9	<0.820	1.33	<0.820	<8.20	<0.820
Hexachlorobutadiene	ug/m^3	<7.11	<2.13	<291	<37.1	<77.1	<21.3	<319	<78.4	<1900	<2.13	<2.13	<2.13	<2.13	<21.3	<2.13
Isopropanol	ug/m^3	<4.10	2.1	<168	<21.4	<44.5	<12.3	<184	<45.2	<1100	1.27	<1.23	4.79	<1.23	<12.3	<1.23
Methyl tert butyl ether	ug/m^3	<2.40	<0.721	<98.4	<12.5	<26.1	<7.21	<108	<26.5	<642	<0.721	<0.721	<0.721	<0.721	<7.21	<0.721
Methylene chloride	ug/m^3	<5.80	<1.74	<237	<30.2	<62.9	<17.4	<260	<63.9	<1550	3.24	2.48	<1.74	<1.74	<17.4	<1.74
n-Hexane	ug/m^3	<2.35	<0.705	<96.2	<12.3	<25.5	<7.05	<105	<25.9	<627	3.56	0.737	1.11	1.41	<7.05	<0.705
o-Xylene	ug/m^3	<2.90	<0.869	<119	<15.1	<31.4	<8.69	<130	<31.9	<773	1.68	<0.869	1.49	<0.869	<8.69	<0.869
p/m-Xylene	ug/m^3	<5.78	<1.74	<237	<30.2	<62.5	<17.4	<260	<63.9	<1550	5.65	<1.74	3.41	<1.74	<17.4	<1.74
Styrene	ug/m^3	<2.84	<0.852	<116	<14.8	<30.8	<8.52	<127	<31.3	<758	<0.852	<0.852	<0.852	<0.852	<8.52	<0.852
Tertiary butyl Alcohol	ug/m^3	<5.06	<1.52	<207	<26.3	<54.9	<15.2	<227	<55.8	<1350	1.62	<1.52	<1.52	<1.52	<15.2	<1.52
Tetrahydrofuran	ug/m^3	<4.93	<1.47	<201	<25.6	<53.4	<14.7	<221	<54.3	<1320	1.75	<1.47	<1.47	<1.47	<14.7	<1.47
Toluene	ug/m^3	5.65	4.71	<103	18.9	<27.2	<7.54	<113	<27.7	<671	9.01	7.16	17	4.79	<7.54	1.88
trans-1,2-Dichloroethene	ug/m^3	<2.64	<0.793	<108	<13.8	<28.7	<7.93	<119	<29.1	<706	<0.793	<0.793	<0.793	<0.793	<7.93	<0.793
trans-1,3-Dichloropropene	ug/m^3	<3.03	<0.908	<124	<15.8	<32.8	<9.08	<136	<33.4	<808	<0.908	<0.908	<0.908	<0.908	<9.08	<0.908
Trichlorofluoromethane (R11)	ug/m^3	153	400	262	465	215	321	347	309	<1000	225	309	496	242	293	169
Vinyl bromide	ug/m^3	<2.92	<0.874	<119	<15.2	<31.6	<8.74	<131	<32.1	<778	<0.874	<0.874	<0.874	<0.874	<8.74	<0.874

Notes:
<6.8 - Indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

LOCATION		Indoor Air	FR-101017-IA-AA	FR-101017-IA-03	FR-101017-IA-04	FR-101017-IA-05	FR-101017-IA-06	FR-101017-IA-07	FR-101017-IA-08	FR-101017-IA-09	FR-101017-IA-10	FR-101017-IA-JY
SAMPLING DATE		Background[a]	10/10/17	10/10/17	10/10/17	10/10/17	10/10/17	10/10/17	10/10/17	10/10/17	10/10/17	10/10/17
Sample Type			Ambient Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
	Units		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/m3	20.6	<0.109	0.327	0.344	1.57	1.6	1.4	1.59	2.38	1.57	3.69
1,1-Dichloroethene	ug/m3	<1.4	<0.079	0.432	0.476	**2.08**	**1.87**	1.37	**1.48**	**1.96**	**2.05**	**1.4**
1,1-Dichloroethane	ug/m3	<0.7	<0.809	<0.809	<0.809	<0.809	<0.809	<0.809	<0.809	<0.809	**0.899**	<0.809
Carbon tetrachloride	ug/m3	<1.3	0.478	0.503	0.459	0.447	0.447	0.465	0.497	0.459	0.472	0.447
cis-1,2-Dichloroethene	ug/m3	<1.9	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
Tetrachloroethene	ug/m3	15.9	0.217	0.21	0.217	0.515	0.576	0.583	0.434	0.698	0.583	0.97
Trichloroethene	ug/m3	4.2	0.167	0.156	0.263	0.172	0.242	0.462	0.15	0.21	0.215	0.892
Vinyl chloride	ug/m3	5.5	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
1,2,4-Trimethylbenzene	ug/m3	9.5	<0.983	<0.983	<0.983	2.62	3.46	3.88	7.77	3.16	2.52	**194**
1,2-Dichloroethane	ug/m3	<0.9	<0.809	<0.809	<0.809	**4.09**	**3.67**	**2.54**	**2.8**	**5.83**	**4.9**	<0.809
1,3,5-Trimethylbenzene	ug/m3	3.7	<0.983	<0.983	<0.983	<0.983	<0.983	1.03	1.92	<0.983	<0.983	**55.6**
2,2,4-Trimethylpentane	ug/m3	NA	<0.934	<0.934	0.976	3.84	5.18	5.89	14.9	4.11	3.85	460
2-Butanone	ug/m3	12	2.39	1.96	2.18	3.19	3.48	5.28	3.3	3.86	4.07	10.4
4-Ethyltoluene	ug/m3	3.6	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	1.84	<0.983	<0.983	**43.3**
4-Methyl-2-pentanone	ug/m3	NA	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	3.51
Acetone	ug/m3	98.9	25.2	19.2	28	23.7	24.9	60.3	21.4	26.1	28.3	**116**
Benzene	ug/m3	9.4	<0.639	<0.639	<0.639	1.42	1.61	1.56	2.71	1.81	1.59	**55.6**
Chloromethane	ug/m3	3.7	1.03	1.12	1.16	1.2	1.18	1.12	1.16	1.18	1.2	1.24
Cyclohexane	ug/m3	NA	<0.688	<0.688	<0.688	<0.688	2.99	8.64	1.16	<0.688	<0.688	25.2
Dichlorodifluoromethane	ug/m3	16.5	2.26	2.38	2.41	2.54	2.59	2.44	2.61	2.56	2.58	2.41
Ethanol	ug/m3	210	14	13.5	12.1	9.91	11	23.2	15	<9.42	11.2	**675**
Ethyl Acetate	ug/m3	5.4	<1.80	<1.80	<1.80	<1.80	<1.80	3.75	<1.80	<1.80	<1.80	**17.3**
Ethylbenzene	ug/m3	5.7	<0.869	<0.869	<0.869	2.4	3.32	4	**7.82**	2.91	2.57	**180**
Heptane	ug/m3	NA	<0.820	<0.820	<0.820	1.26	1.62	2.41	3.39	1.98	1.29	92.2
Isopropanol	ug/m3	250	2.68	2.93	2.88	6.34	5.7	7.92	4.65	6.98	7.03	22.1
Methylene chloride	ug/m3	10	<1.74	<1.74	2.94	<1.74	<1.74	4.55	<1.74	<1.74	<1.74	8.79
n-Hexane	ug/m3	10.2	1.32	1.07	1.36	1.03	1.4	3.05	2.83	1.2	1.27	**95.9**
o-Xylene	ug/m3	7.9	<0.869	0.873	1.14	3.23	4.3	5.26	**10.9**	3.94	3.42	**232**
p/m-Xylene	ug/m3	22.2	<1.74	2.15	3	8.47	11.3	14	**27.9**	9.99	8.64	**556**
Styrene	ug/m3	1.9	<0.852	<0.852	<0.852	0.975	1.18	1.13	<0.852	1.29	1.24	**3.18**
Tetrahydrofuran	ug/m3	NA	<1.47	<1.47	<1.47	<1.47	<1.47	<1.47	<1.47	<1.47	<1.47	2.29
Toluene	ug/m3	43	6.63	5.54	8.52	14.4	22.7	31.4	41.8	17.7	17.2	**690**
Trichlorofluoromethane	ug/m3	18.1	<1.12	**69.7**	**80.4**	**230**	**230**	**174**	**220**	**237**	**244**	**166**

[a]Indoor air measured in commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile values taken from the EPA 2001.

6.8 - Bold value indicates indoor air concentration is above typical background levels.

<6.8 - Indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

TABLE 6 - DETECTED SUB-SLAB SAMPLE RESULTS (OCTOBER 2017) | FORMER GE FARRELL ROAD SITE

LOCATION		FR-101317-SS-23	FR-101317-SS-24	FR-101317-SS-25	FR-101317-SS-26	FR-101317-SS-27	FR-101317-SS-28	FR-101317-SS-29	FR-101317-SS-30	FR-101317-SS-DUP
SAMPLING DATE		10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/13/17	10/13/17
Sample Type		Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
	Units	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/m^3	222	4140	21100	709	32700	<5.46	41.6	68.7	32500
1,1-Dichloroethene	ug/m^3	<0.793	71400	155000	22700	91200	1350	8050	6260	85600
1,1-Dichloroethane	ug/m^3	<0.809	45300	34600	2100	58300	425	2360	1210	54200
Tetrachloroethene	ug/m^3	<1.36	<574	2210	<113	2520	<6.78	<42.9	<46.7	2400
Trichloroethene	ug/m^3	<1.07	<455	962	<89.2	1120	143	1510	512	1000
1,1,2-Trichloroethane	ug/m^3	<1.09	<462	<802	<90.6	<557	<5.46	<34.5	<37.5	443
1,2,4-Trimethylbenzene	ug/m^3	4.9	<416	<723	<81.6	<501	<4.92	<31.1	<33.8	<337
1,2-Dichloroethane	ug/m^3	<0.809	<343	<595	<67.2	1780	13.3	<25.6	<27.8	1730
1,3,5-Trimethylbenzene	ug/m^3	5.16	<416	<723	<81.6	<501	<4.92	<31.1	<33.8	<337
1,4-Dioxane	ug/m^3	<0.721	<305	<530	<59.8	796	23.1	<22.8	<24.8	771
2-Butanone	ug/m^3	1.73	<625	<1090	<122	<752	<7.37	<46.6	<50.7	<504
4-Ethyltoluene	ug/m^3	2.12	<416	<723	<81.6	<501	<4.92	<31.1	<33.8	<337
Acetone	ug/m^3	29.9	<1010	<1750	<197	<1210	21.5	<75.1	<81.7	<812
Benzene	ug/m^3	11.1	<271	<470	<53.0	<326	<3.19	<20.2	<22.0	<219
Carbon disulfide	ug/m^3	1.14	<264	<458	<51.7	<318	<3.11	<19.7	<21.4	<213
Chloroethane	ug/m^3	<0.528	<224	<388	<43.8	694	<2.64	<16.7	<18.2	647
Chloroform	ug/m^3	<0.977	<414	<718	106	<498	<4.88	<30.9	51.3	640
Cyclohexane	ug/m^3	20	<292	<506	<57.1	<351	<3.44	<21.8	<23.7	<236
Dichlorodifluoromethane	ug/m^3	1.68	<419	<727	<82.1	<504	<4.94	<31.3	<34.0	<339
Ethylbenzene	ug/m^3	5.08	<368	<639	<72.1	<443	<4.34	<27.5	<29.9	<298
Freon-113	ug/m^3	8.51	<649	<1130	<127	<782	<7.66	<48.5	<52.7	<525
Heptane	ug/m^3	30.9	<347	<602	<68.0	<418	<4.10	<25.9	<28.2	<281
n-Hexane	ug/m^3	18.8	<299	<518	<58.5	<359	<3.52	<22.3	<24.2	<241
o-Xylene	ug/m^3	4.47	<368	<639	<72.1	<443	<4.34	<27.5	<29.9	<298
p/m-Xylene	ug/m^3	27.5	<734	<1280	<144	<886	<8.69	<54.7	<59.9	<595
Toluene	ug/m^3	29.4	<319	<554	<62.6	<384	5.24	<23.9	<25.9	<258
Trichlorofluoromethane	ug/m^3	156	<476	<826	172	<573	76.4	128	134	<385

Notes:
<6.8 - Indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

TABLE 7 - DETECTED SUB-SLAB SAMPLE RESULTS (JUNE 2018) | FORMER GE FARRELL ROAD SITE

LOCATION		FR-061918-SS-J1	FR-061918-SS-M2	FR-061918-SS-K3	FR-061918-SS-E1	FR-061918-SS-18	FR-061918-SS-J5	FR-061918-SS-17	FR-061918-SSD-08	FR-061918-SS-G2	FR-061918-SS-06	FR-061918-SS-B1	FR-061918-SS-P1	FR-061918-SS-23	FR-061918-SS-J4
SAMPLING DATE		6/19/18	6/19/18	6/19/18	6/20/18	6/20/18	6/20/18	6/20/18	6/19/18	6/19/18	6/19/18	6/19/18	6/19/18	6/19/18	6/19/18
Sample Type		Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
	Units	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/m3	75.3	<73.7	56.2	15.4	8.73	50.6	38.2	4,440	21.3	132	130	1,000	140	1,180
1,1-Dichloroethene	ug/m3	<0.793	11,500	2,240	2,130	<0.793	<0.793	<0.793	5,550	<7.93	31,200	<0.793	10.7	<0.793	8,920
1,1-Dichloroethane	ug/m3	<0.809	3,560	169	40.9	<0.809	<0.809	<0.809	2,230	<8.09	8,090	<0.809	42.5	<0.809	720
Carbon tetrachloride	ug/m3	<1.26	<84.9	<12.6	<12.6	<1.26	<1.26	<1.26	<25.2	<12.6	<96.9	<1.26	<2.52	1.26	<45.5
cis-1,2-Dichloroethene	ug/m3	<0.793	<53.5	<7.93	<7.93	<0.793	<0.793	<0.793	<15.9	11.9	<61.1	<0.793	1.75	<0.793	<28.7
Tetrachloroethene	ug/m3	<1.36	<91.5	<13.6	<13.6	1.65	2.2	1.68	33.5	<13.6	<104	<1.36	5.49	<1.36	<49.0
Trichloroethene	ug/m3	<1.07	731	39.1	<10.7	<1.07	<1.07	<1.07	30.3	3,660	1,280	<1.07	126	<1.07	<38.9
1,2,4-Trimethylbenzene	ug/m3	1.8	<66.4	<9.83	<9.83	1.13	<0.983	1.82	<19.7	<9.83	<75.7	3.6	3.22	10.4	<35.5
1,2-Dichlorobenzene	ug/m3	6.13	<81.2	<12.0	<12.0	7.21	4.95	11.1	<24.0	<12.0	<92.6	25	<2.40	2.72	<43.5
1,2-Dichloroethane	ug/m3	<0.809	<54.6	<8.09	<8.09	<0.809	<0.809	<0.809	<16.2	<8.09	72.4	<0.809	<1.62	<0.809	<29.3
1,3,5-Trimethylbenzene	ug/m3	<0.983	<66.4	<9.83	<9.83	<0.983	<0.983	<0.983	<19.7	<9.83	<75.7	1.18	<1.97	3.9	<35.5
1,4-Dichlorobenzene	ug/m3	9.86	<81.2	12.4	14	13.8	9.02	21.9	<24.0	<12.0	<92.6	44.4	<2.40	4.24	<43.5
1,4-Dioxane	ug/m3	<0.721	<48.6	<7.21	<7.21	<0.721	<0.721	<0.721	<14.4	<7.21	<55.5	<0.721	5.73	<0.721	<26.1
2-Butanone	ug/m3	<1.47	<99.4	<14.7	<14.7	2.12	<1.47	<1.47	<29.5	<14.7	<114	<1.47	<2.95	<1.47	<53.4
4-Ethyltoluene	ug/m3	<0.983	<66.4	<9.83	<9.83	<0.983	<0.983	<0.983	<19.7	<9.83	<75.7	<0.983	<1.97	2.23	<35.5
Acetone	ug/m3	9.79	<160	<23.8	24.9	25.9	3.23	25.2	<47.5	<23.8	<183	6.87	51.1	11.9	<85.8
Carbon disulfide	ug/m3	<0.623	<42.0	<6.23	<6.23	<0.623	1.53	<0.623	<12.5	<6.23	<48.0	0.754	<1.25	0.754	<22.5
Chlorobenzene	ug/m3	6.68	<62.2	14	<9.21	7.41	8.7	11.7	<18.4	<9.21	<70.9	11.3	<1.84	<0.921	<33.3
Chloroethane	ug/m3	<0.528	<35.6	<5.28	<5.28	<0.528	<0.528	<0.528	610	<5.28	<40.6	<0.528	<1.06	<0.528	<19.1
Chloroform	ug/m3	<0.977	<65.9	<9.77	<9.77	<0.977	<0.977	<0.977	<19.5	30.7	<75.2	<0.977	<1.95	<0.977	<35.3
Chloromethane	ug/m3	<0.413	<27.9	<4.13	<4.13	0.589	<0.413	<0.413	<8.26	<4.13	<31.8	<0.413	<0.826	<0.413	<14.9
Cyclohexane	ug/m3	<0.688	<46.5	<6.88	<6.88	2.67	0.778	0.688	<13.8	<6.88	<53.0	<0.688	<1.38	<0.688	<24.9
Dichlorodifluoromethane	ug/m3	1.28	<66.8	<9.89	<9.89	1.78	1.24	1.57	<19.8	<9.89	<76.1	1.52	<1.98	1.75	<35.8
Ethanol	ug/m3	<9.42	<635	<94.2	<94.2	15.5	<9.42	<9.42	<188	<94.2	<727	<9.42	39.8	<9.42	<341
Ethyl Acetate	ug/m3	<1.80	<121	<18.0	<18.0	4.61	<1.80	<1.80	<36.0	<18.0	<139	<1.80	<3.60	<1.80	<65.2
Freon-113	ug/m3	<1.53	<103	<15.3	<15.3	<1.53	<1.53	<1.53	<30.7	<15.3	<118	1.78	8.2	5.53	<55.4
Heptane	ug/m3	<0.820	<55.3	<8.20	<8.20	1.36	<0.820	0.885	<16.4	<8.20	<63.1	<0.820	<1.64	<0.820	<29.6
Isopropanol	ug/m3	1.34	<82.8	<12.3	<12.3	7.25	<1.23	24.3	<24.6	<12.3	<94.9	<1.23	3	<1.23	<44.5
Methylene chloride	ug/m3	<1.74	<117	<17.4	<17.4	7.85	3.54	3.79	<34.7	<17.4	<134	<1.74	<3.47	<1.74	<62.9
n-Hexane	ug/m3	0.772	<47.6	<7.05	<7.05	2.67	0.825	0.856	<14.1	<7.05	<54.3	0.775	<1.41	<0.705	<25.5
o-Xylene	ug/m3	1.54	<58.6	<8.69	<8.69	1.69	0.925	2.18	<17.4	<8.69	<66.9	1.59	<1.74	1.69	<31.4
p/m-Xylene	ug/m3	2.38	<117.	<17.4	<17.4	2.48	<1.74	2.9	<34.7	<17.4	<134	2.38	<3.47	<1.74	<62.5
Styrene	ug/m3	1.27	<57.5	<8.52	<8.52	0.979	<0.852	1.82	<17.0	<8.52	<65.6	<0.852	<1.70	10.9	<30.8
Tetrahydrofuran	ug/m3	<1.47	<99.4	<14.7	<14.7	12.2	<1.47	<1.47	<29.5	<14.7	<114	<1.47	<2.95	4.54	<53.4
Toluene	ug/m3	2.09	<50.9	<7.54	<7.54	7.24	0.927	2.69	<15.1	<7.54	<58.0	2.25	4.33	4.03	<27.2
Trichlorofluoromethane	ug/m3	215	157	166	137	160	204	233	231	99.5	254	210	133	139	168

Notes:
<6.8 - Indicates compound was not detected (ND) above reporting limit. Reporting limit reported.

Figures

N

LEGEND

SITE BOUNDARY

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SITE LAYOUT

0 100 200 400
Feet

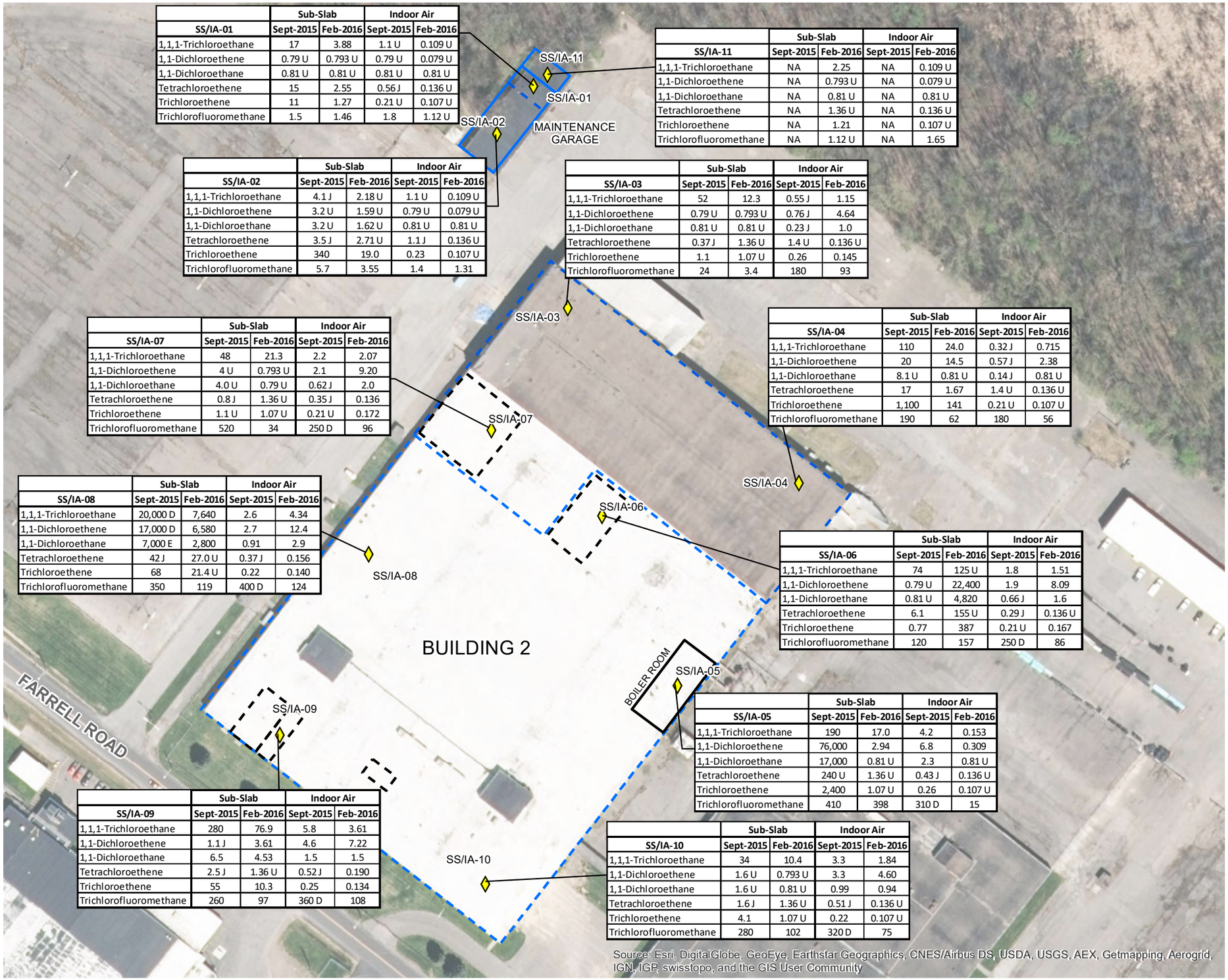
5851.64466
NOVEMBER 2018

O'BRIEN & GERE ENGINEERS, INC.

11/2/2018 4:45:02 AM

I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-SelDocs\Reports\2017 TMI\Final Figures\FIGURE 1 - SITE LAYOUT.mxd

FIGURE 2



SS/IA-01	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	17	3.88	1.1 U	0.109 U
1,1-Dichloroethene	0.79 U	0.793 U	0.79 U	0.079 U
1,1-Dichloroethane	0.81 U	0.81 U	0.81 U	0.81 U
Tetrachloroethene	15	2.55	0.56 J	0.136 U
Trichloroethene	11	1.27	0.21 U	0.107 U
Trichlorofluoromethane	1.5	1.46	1.8	1.12 U

SS/IA-11	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	NA	2.25	NA	0.109 U
1,1-Dichloroethene	NA	0.793 U	NA	0.079 U
1,1-Dichloroethane	NA	0.81 U	NA	0.81 U
Tetrachloroethene	NA	1.36 U	NA	0.136 U
Trichloroethene	NA	1.21	NA	0.107 U
Trichlorofluoromethane	NA	1.12 U	NA	1.65

SS/IA-02	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	4.1 J	2.18 U	1.1 U	0.109 U
1,1-Dichloroethene	3.2 U	1.59 U	0.79 U	0.079 U
1,1-Dichloroethane	3.2 U	1.62 U	0.81 U	0.81 U
Tetrachloroethene	3.5 J	2.71 U	1.1 J	0.136 U
Trichloroethene	340	19.0	0.23	0.107 U
Trichlorofluoromethane	5.7	3.55	1.4	1.31

SS/IA-03	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	52	12.3	0.55 J	1.15
1,1-Dichloroethene	0.79 U	0.793 U	0.76 J	4.64
1,1-Dichloroethane	0.81 U	0.81 U	0.23 J	1.0
Tetrachloroethene	0.37 J	1.36 U	1.4 U	0.136 U
Trichloroethene	1.1	1.07 U	0.26	0.145
Trichlorofluoromethane	24	3.4	180	93

SS/IA-07	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	48	21.3	2.2	2.07
1,1-Dichloroethene	4 U	0.793 U	2.1	9.20
1,1-Dichloroethane	4.0 U	0.79 U	0.62 J	2.0
Tetrachloroethene	0.8 J	1.36 U	0.35 J	0.136
Trichloroethene	1.1 U	1.07 U	0.21 U	0.172
Trichlorofluoromethane	520	34	250 D	96

SS/IA-04	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	110	24.0	0.32 J	0.715
1,1-Dichloroethene	20	14.5	0.57 J	2.38
1,1-Dichloroethane	8.1 U	0.81 U	0.14 J	0.81 U
Tetrachloroethene	17	1.67	1.4 U	0.136 U
Trichloroethene	1,100	141	0.21 U	0.107 U
Trichlorofluoromethane	190	62	180	56

SS/IA-08	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	20,000 D	7,640	2.6	4.34
1,1-Dichloroethene	17,000 D	6,580	2.7	12.4
1,1-Dichloroethane	7,000 E	2,800	0.91	2.9
Tetrachloroethene	42 J	27.0 U	0.37 J	0.156
Trichloroethene	68	21.4 U	0.22	0.140
Trichlorofluoromethane	350	119	400 D	124

SS/IA-06	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	74	125 U	1.8	1.51
1,1-Dichloroethene	0.79 U	22,400	1.9	8.09
1,1-Dichloroethane	0.81 U	4,820	0.66 J	1.6
Tetrachloroethene	6.1	155 U	0.29 J	0.136 U
Trichloroethene	0.77	387	0.21 U	0.167
Trichlorofluoromethane	120	157	250 D	86

SS/IA-09	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	280	76.9	5.8	3.61
1,1-Dichloroethene	1.1 J	3.61	4.6	7.22
1,1-Dichloroethane	6.5	4.53	1.5	1.5
Tetrachloroethene	2.5 J	1.36 U	0.52 J	0.190
Trichloroethene	55	10.3	0.25	0.134
Trichlorofluoromethane	260	97	360 D	108

SS/IA-05	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	190	17.0	4.2	0.153
1,1-Dichloroethene	76,000	2.94	6.8	0.309
1,1-Dichloroethane	17,000	0.81 U	2.3	0.81 U
Tetrachloroethene	240 U	1.36 U	0.43 J	0.136 U
Trichloroethene	2,400	1.07 U	0.26	0.107 U
Trichlorofluoromethane	410	398	310 D	15

SS/IA-10	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	34	10.4	3.3	1.84
1,1-Dichloroethene	1.6 U	0.793 U	3.3	4.60
1,1-Dichloroethane	1.6 U	0.81 U	0.99	0.94
Tetrachloroethene	1.6 J	1.36 U	0.51 J	0.136 U
Trichloroethene	4.1	1.07 U	0.22	0.107 U
Trichlorofluoromethane	280	102	320 D	75

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

N

LEGEND

- SUB-SLAB, INDOOR AIR SAMPLE PAIR
- ANTICIPATED TENANT SPACE
- TENANT SPACE
- ANTICIPATED OFFICE AREA OR CAFETERIA
- BOILER ROOM

LOCATION ID

SS/IA-10	Sub-Slab		Indoor Air	
	Sept-2015	Feb-2016	Sept-2015	Feb-2016
1,1,1-Trichloroethane	34	10.4	3.3	1.84
1,1-Dichloroethene	1.6 U	0.793 U	3.3	4.60
Tetrachloroethene	1.6 J	1.36 U	0.51 J	0.136 U
Trichloroethene	4.1	1.07 U	0.22	0.107 U

ANALYTE

RESULT (ug/m3)

NOTE:
- LOCATIONS APPROXIMATE
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING RESULTS COMPARISON (SEPT 2015 AND FEB 2016)

0 60 120 240
Feet

JANUARY 2019
5851.50238

O'BRIEN & GERE ENGINEERS, INC.

PLOTDATE: 01/31/19 7:42:39 AM MonetaNT
I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-Se\Docs\Reports\2017 TM\Final Figures\FIGURE 2 - SAMPLING RESULTS COMPARISON 2015-2016_REV.mxd

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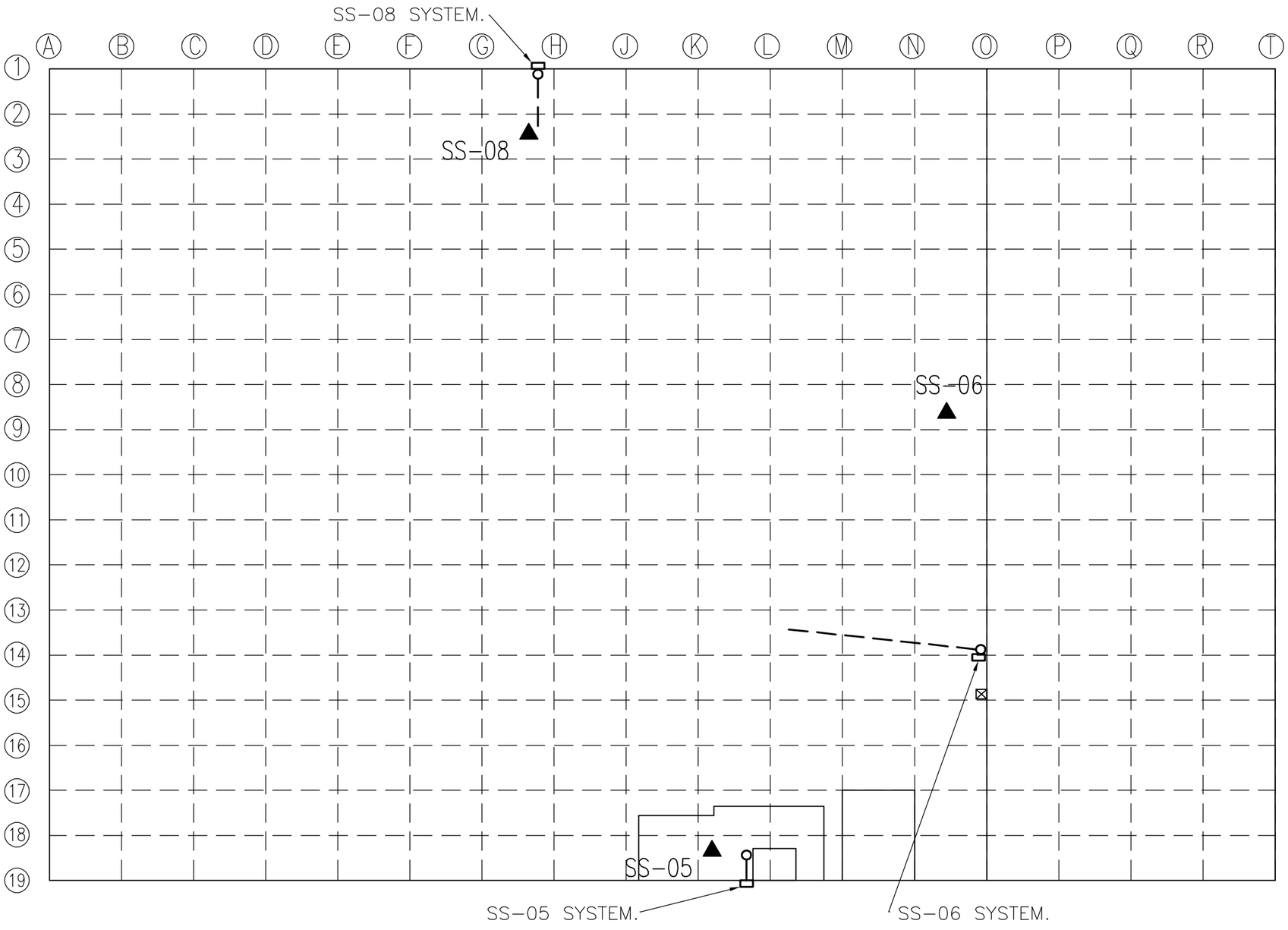

LEGEND

- EXISTING INTERIOR/EXTERIOR WALL
- EXISTING SUMP
- SUB-SLAB SAMPLE LOCATION
- PROPOSED VERTICAL RISER PIPE
- PROPOSED OVERHEAD HORIZONTAL PIPE
- PROPOSED SUB-SLAB HORIZONTAL PIPE
- PROPOSED EXHAUST FAN LOCATION

FLOOR PLAN

PLAN NOTES:

1. DIMENSIONS AND INSTALLATION LOCATIONS SHOWN ON FIGURE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
2. ALL WORK TO BE IN GENERAL CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF HEALTH'S GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK (OCTOBER 2006).

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DOUGLAS M. CRAWFORD, P.E.
N.Y. PROFESSIONAL ENGINEER NO. 066649

IN CHARGE OF MD
DESIGNED BY EMA CHECKED BY EMA
DRAWN BY EMA

16 0 16 32 48 64 80

NO.	DATE	REVISION	INIT.
1		ISSUED FOR PERMIT APPROVAL	
0		ISSUED FOR OWNER APPROVAL	

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SYRACUSE, NY 13221
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LOCKHEED MARTIN
FORMER GE FARRELL ROAD SITE

BUILDING FLOOR PLAN
SUB-SLAB DEPRESSURIZATION SYSTEM DESIGN
241 FARRELL ROAD
GEDDES, NY

FILE NO. 5851.50238
DATE FEBRUARY 2016

FIG. 3

Plot Date: 06/14/16

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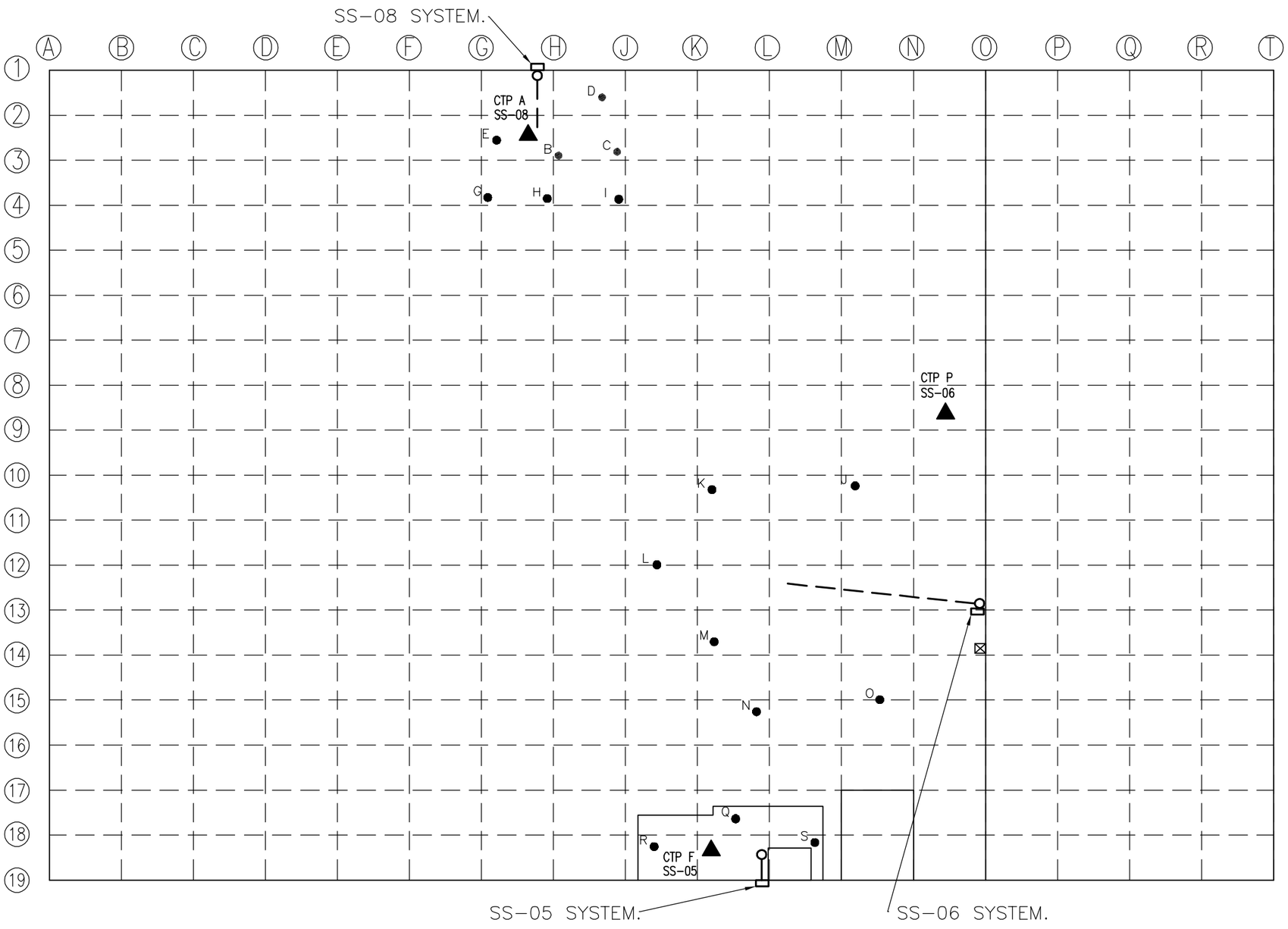

LEGEND

- EXISTING INTERIOR/EXTERIOR WALL
- EXISTING SUMP
- SUB-SLAB SAMPLE LOCATION AND COMMUNICATION TEST POINT (CTP)
- VERTICAL RISER PIPE
- OVERHEAD HORIZONTAL PIPE
- SUB-SLAB HORIZONTAL PIPE
- EXHAUST FAN LOCATION
- CTP

COMMUNICATION TEST RESULTS – 09/20/16 (2)

CTP	DESIGN SUB-SLAB VACUUM READING (INCHES WATER)	IC/OC* SUB-SLAB VACUUM READING (INCHES WATER)
A (SS-08)	-1.700	-1.9
B	-0.022	-0.124
C	-0.008	-0.053
D	-0.162	-0.371
E	-0.010	-0.067
F (SS-05)	-0.023	-0.087
G	-0.032	0.000
H	NOT RECORDED	-0.008
I	NOT RECORDED	0.000
J	NOT RECORDED	-0.046
K	NOT RECORDED	-0.013
L	NOT RECORDED	-0.020
M	NOT RECORDED	-0.004
N	NOT RECORDED	-0.002
O	NOT RECORDED	-0.009
P (SS-06)	NOT RECORDED	-0.008
Q	NOT RECORDED	-0.034
R	NOT RECORDED	-0.002
S	NOT RECORDED	-0.037

*IC/OC – INSTALLATION AND OPERATION COMMISSIONING

FLOOR PLAN

PLAN NOTES:

1. DIMENSIONS AND INSTALLATION LOCATIONS SHOWN ON FIGURE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
2. ALL WORK TO BE IN GENERAL CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF HEALTH'S GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK (OCTOBER 2006).

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
O'BRIEN & GERE

By: _____

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IN CHARGE OF MD
DESIGNED BY EMA CHECKED BY EMA
DRAWN BY EMA

16 0 16 32 48 64 80

NO.	DATE	REVISION	INIT.
2	10/10/16	RECORD DRAWINGS	EMA
1	6/14/16	ISSUED FOR PERMIT APPROVAL	DMC
0	6/14/16	ISSUED FOR OWNER APPROVAL	DMC

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LOCKHEED MARTIN
FORMER GE FARRELL ROAD SITE

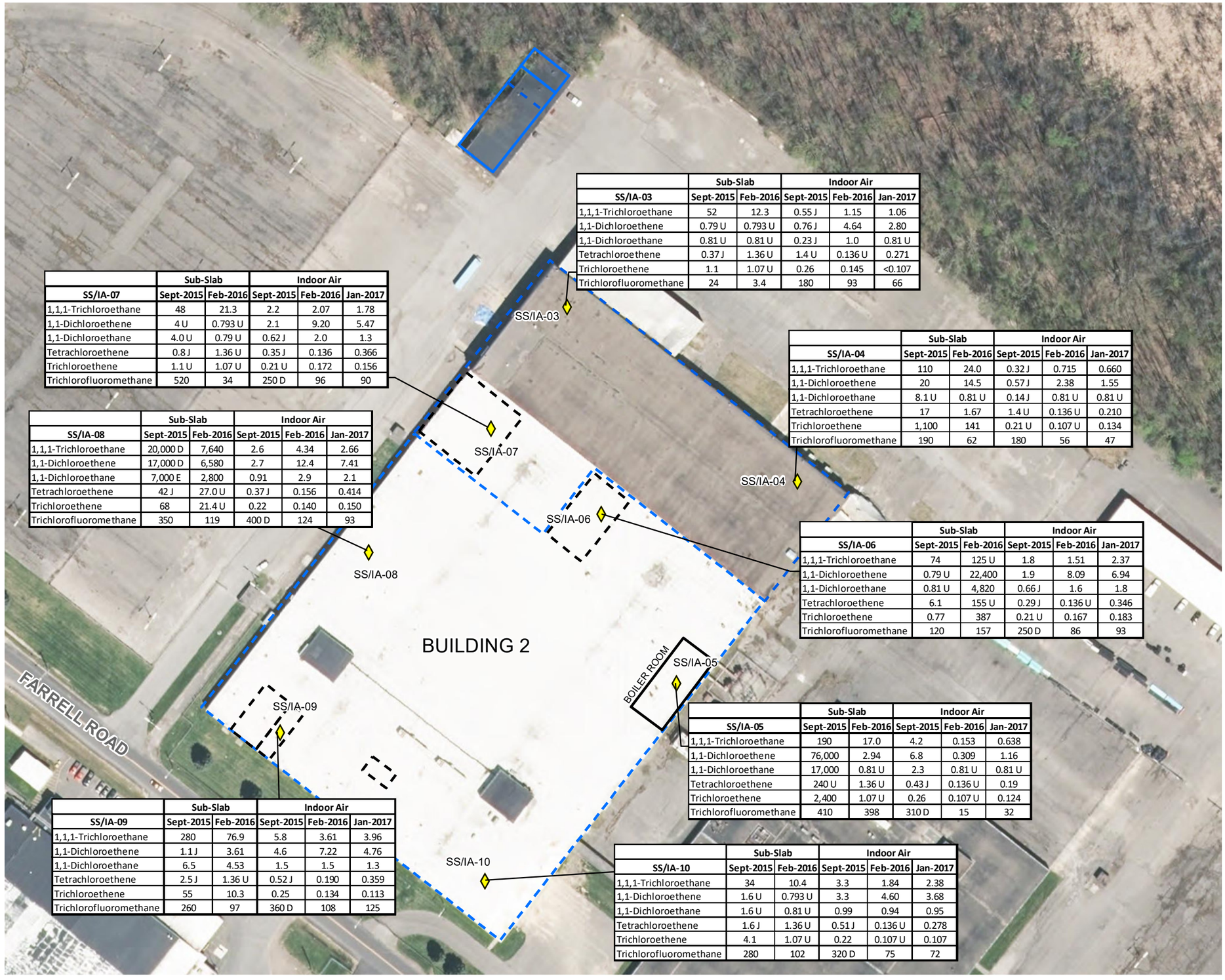
BUILDING FLOOR PLAN
SUB-SLAB DEPRESSURIZATION SYSTEM
241 FARRELL ROAD
GEDDES, NY

FILE NO. 5851.63514
DATE FEBRUARY 2016
FIG. 4

Plot Date: 10/10/16

PLOTDATE: 01/31/19 7:44:14 AM MonetaNT

I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-Se\Docs\Reports\2017 TM\Final Figures\FIGURE 5 - SAMPLING RESULTS COMPARISON_REV.mxd



	Sub-Slab		Indoor Air		
SS/IA-03	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	52	12.3	0.55 J	1.15	1.06
1,1-Dichloroethene	0.79 U	0.793 U	0.76 J	4.64	2.80
1,1-Dichloroethane	0.81 U	0.81 U	0.23 J	1.0	0.81 U
Tetrachloroethene	0.37 J	1.36 U	1.4 U	0.136 U	0.271
Trichloroethene	1.1	1.07 U	0.26	0.145	<0.107
Trichlorofluoromethane	24	3.4	180	93	66

	Sub-Slab		Indoor Air		
SS/IA-07	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	48	21.3	2.2	2.07	1.78
1,1-Dichloroethene	4 U	0.793 U	2.1	9.20	5.47
1,1-Dichloroethane	4.0 U	0.79 U	0.62 J	2.0	1.3
Tetrachloroethene	0.8 J	1.36 U	0.35 J	0.136	0.366
Trichloroethene	1.1 U	1.07 U	0.21 U	0.172	0.156
Trichlorofluoromethane	520	34	250 D	96	90

	Sub-Slab		Indoor Air		
SS/IA-04	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	110	24.0	0.32 J	0.715	0.660
1,1-Dichloroethene	20	14.5	0.57 J	2.38	1.55
1,1-Dichloroethane	8.1 U	0.81 U	0.14 J	0.81 U	0.81 U
Tetrachloroethene	17	1.67	1.4 U	0.136 U	0.210
Trichloroethene	1,100	141	0.21 U	0.107 U	0.134
Trichlorofluoromethane	190	62	180	56	47

	Sub-Slab		Indoor Air		
SS/IA-08	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	20,000 D	7,640	2.6	4.34	2.66
1,1-Dichloroethene	17,000 D	6,580	2.7	12.4	7.41
1,1-Dichloroethane	7,000 E	2,800	0.91	2.9	2.1
Tetrachloroethene	42 J	27.0 U	0.37 J	0.156	0.414
Trichloroethene	68	21.4 U	0.22	0.140	0.150
Trichlorofluoromethane	350	119	400 D	124	93

	Sub-Slab		Indoor Air		
SS/IA-06	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	74	125 U	1.8	1.51	2.37
1,1-Dichloroethene	0.79 U	22,400	1.9	8.09	6.94
1,1-Dichloroethane	0.81 U	4,820	0.66 J	1.6	1.8
Tetrachloroethene	6.1	155 U	0.29 J	0.136 U	0.346
Trichloroethene	0.77	387	0.21 U	0.167	0.183
Trichlorofluoromethane	120	157	250 D	86	93

	Sub-Slab		Indoor Air		
SS/IA-05	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	190	17.0	4.2	0.153	0.638
1,1-Dichloroethene	76,000	2.94	6.8	0.309	1.16
1,1-Dichloroethane	17,000	0.81 U	2.3	0.81 U	0.81 U
Tetrachloroethene	240 U	1.36 U	0.43 J	0.136 U	0.19
Trichloroethene	2,400	1.07 U	0.26	0.107 U	0.124
Trichlorofluoromethane	410	398	310 D	15	32

	Sub-Slab		Indoor Air		
SS/IA-09	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	280	76.9	5.8	3.61	3.96
1,1-Dichloroethene	1.1 J	3.61	4.6	7.22	4.76
1,1-Dichloroethane	6.5	4.53	1.5	1.5	1.3
Tetrachloroethene	2.5 J	1.36 U	0.52 J	0.190	0.359
Trichloroethene	55	10.3	0.25	0.134	0.113
Trichlorofluoromethane	260	97	360 D	108	125

	Sub-Slab		Indoor Air		
SS/IA-10	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	34	10.4	3.3	1.84	2.38
1,1-Dichloroethene	1.6 U	0.793 U	3.3	4.60	3.68
1,1-Dichloroethane	1.6 U	0.81 U	0.99	0.94	0.95
Tetrachloroethene	1.6 J	1.36 U	0.51 J	0.136 U	0.278
Trichloroethene	4.1	1.07 U	0.22	0.107 U	0.107
Trichlorofluoromethane	280	102	320 D	75	72

N

LEGEND

- SS/IA SAMPLE PAIR PERMANENT POINT
- ANTICIPATED TENANT SPACE
- TENANT SPACE
- ANTICIPATED OFFICE AREA OR CAFETERIA
- BOILER ROOM

LOCATION ID

	Sub-Slab		Indoor Air		
SS/IA-04	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017
1,1,1-Trichloroethane	110	24.0	0.32 J	0.715	0.660
1,1-Dichloroethene	20	14.5	0.57 J	2.38	1.55
Tetrachloroethene	17	1.67	1.4 U	0.136 U	0.210
Trichloroethene	1100	141	0.21 U	0.107 U	0.134

ANALYTE

RESULT (ug/m3)

NOTE:
- LOCATIONS APPROXIMATE
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING RESULTS COMPARISON (SEPT 2015, FEB 2016 AND JAN 2017)

0 60 120 240
Feet

JANUARY 2019
5851.64466

O'BRIEN & GERE ENGINEERS, INC.

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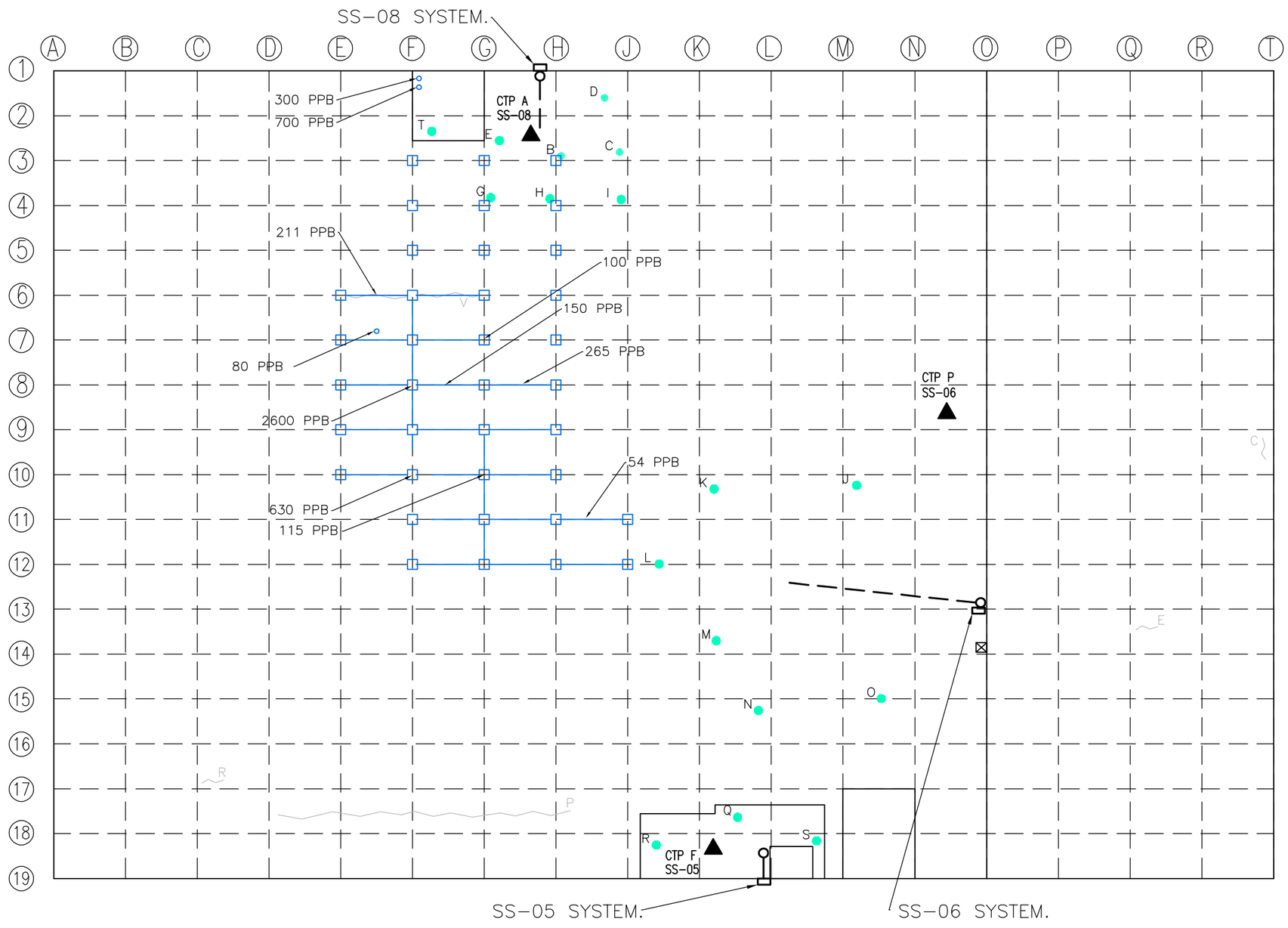

LEGEND

- EXISTING INTERIOR/EXTERIOR WALL
- EXISTING SUMP
- SUB-SLAB SAMPLE LOCATION AND COMMUNICATION TEST POINT (CTP)
- VERTICAL RISER PIPE
- OVERHEAD HORIZONTAL PIPE
- SUB-SLAB HORIZONTAL PIPE
- EXHAUST FAN LOCATION
- COMMUNICATION TEST POINT
- SEALED SLAB BREACHES "X" – SLAB BREACH ID
- SEALED COLUMNS
- SEALED JOINTS OR CRACKS
- SEALED HOLES

PPM VALUES SHOWN ARE AS TOTAL VOCs AS ISOBUTYLENE

FLOOR PLAN

PLAN NOTES:

1. DIMENSIONS AND INSTALLATION LOCATIONS SHOWN ON FIGURE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
2. ALL WORK TO BE IN GENERAL CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF HEALTH'S GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK (OCTOBER 2006).

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

IN CHARGE OF MD
DESIGNED BY EMA CHECKED BY EMA
DRAWN BY EMA

16 0 16 32 48 64 80

NO.	DATE	REVISION	INIT.
2	10/10/16	RECORD DRAWINGS	EMA
1	6/14/16	ISSUED FOR PERMIT APPROVAL	DMC
0	6/14/16	ISSUED FOR OWNER APPROVAL	DMC

O'BRIEN & GERE
333 W. WASHINGTON ST.
SYRACUSE, NY 13221
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LOCKHEED MARTIN
FORMER GE FARRELL ROAD SITE

BUILDING FLOOR PLAN
SLAB SEALING
241 FARRELL ROAD
GEDDES, NY

FILE NO. 5851.63514
DATE FEBRUARY 2016
FIG. 6

Plot Date: 10/10/16

I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-Se\Docs\Reports\2017 TM\Final Figures\FIGURE 7 - SAMPLING RESULTS COMPARISON_REV.mxd 1/31/2019 7:01:16 AM

SS/IA-07	Sub-Slab		Indoor Air			
	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	48	21	2.2	2.1	1.8	2.8
1,1-Dichloroethene	4.0 U	0.79 U	2.1	9.2	5.5	6.0
1,1-Dichloroethane	4.0 U	0.81 U	0.62 J	2.0	1.3	2.3
Tetrachloroethene	0.8 J	1.4 U	0.35 J	0.14	0.37	2.3
Trichloroethene	1.1 U	1.1 U	0.21 U	0.17	0.16	0.37
Trichlorofluoromethane	520	34	250 D	96	90	380

SS/IA-06	Sub-Slab			Indoor Air			
	Sept-2015	Feb-2016	Jul-2017	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	74	125 U	157	1.8	1.5	2.4	2.2
1,1-Dichloroethene	0.79 U	22,400	34,300	1.9	8.1	6.9	4.5
1,1-Dichloroethane	0.81 U	4,820	13,400	0.66 J	1.6	1.8	1.7
Tetrachloroethene	6.1	155 U	185 U	0.29 J	0.14 U	0.35	2.0
Trichloroethene	0.77	387	1,410	0.21 U	0.17	0.18	0.21
Trichlorofluoromethane	120	157	262	250 D	86	93	369

SS-13	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	470
1,1-Dichloroethene	2,050
1,1-Dichloroethane	425
Tetrachloroethene	28
Trichloroethene	11 U
Trichlorofluoromethane	321

SS-12	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	314
1,1-Dichloroethene	8,680
1,1-Dichloroethane	1,720
Tetrachloroethene	49 U
Trichloroethene	100
Trichlorofluoromethane	215

SS/IA-08	Sub-Slab			Indoor Air			
	Sept-2015	Feb-2016	Jul-2017	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	20,000 D	7,640	3,750	2.6	4.3	2.7	2.6
1,1-Dichloroethene	17,000 D	6,580	4,480	2.7	12	7.4	5.0
1,1-Dichloroethane	7,000 E	2,800	2,640	0.91	2.9	2.1	1.9
Tetrachloroethene	42 J	27 U	51	0.37 J	0.16	0.41	2.2
Trichloroethene	68	21 U	39	0.22	0.14	0.15	0.35
Trichlorofluoromethane	350	119	465	400 D	124	93	383

SS-16	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	490,000
1,1-Dichloroethene	50,400
1,1-Dichloroethane	15,300
Tetrachloroethene	6,350
Trichloroethene	957 U
Trichlorofluoromethane	1,000 U

SS-14	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	14,800
1,1-Dichloroethene	32,000
1,1-Dichloroethane	29,800
Tetrachloroethene	203 U
Trichloroethene	290
Trichlorofluoromethane	347

SS-15	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	41,700 E
1,1-Dichloroethene	53,500 E
1,1-Dichloroethane	53,400 E
Tetrachloroethene	1,170
Trichloroethene	1,120
Trichlorofluoromethane	309

IA-XX	Trailer Air
	Jul-2017
1,1,1-Trichloroethane	38
1,1-Dichloroethene	6.2
1,1-Dichloroethane	2.3
Tetrachloroethene	2.9
Trichloroethene	0.66
Trichlorofluoromethane	391

AA-XX	Ambient Air
	Jul-2017
1,1,1-Trichloroethane	0.11 U
1,1-Dichloroethene	0.079 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	0.14 U
Trichloroethene	0.21
Trichlorofluoromethane	1.4

SS/IA-09	Sub-Slab		Indoor Air			
	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	280	77	5.8	3.6	4.0	3.6
1,1-Dichloroethene	1.1 J	3.6	4.6	7.2	4.8	5.2
1,1-Dichloroethane	6.5	1.1 U	1.5	1.5	1.3	2.0
Tetrachloroethene	2.5 J	1.4 U	0.52 J	0.19	0.36	3.1
Trichloroethene	55	10	0.25	0.13	0.11	0.31
Trichlorofluoromethane	260	97	360 D	108	125	393

SS-17	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	18
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.5
Trichloroethene	2.3
Trichlorofluoromethane	255

SS/IA-10	Sub-Slab		Indoor Air			
	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	34	10.4	3.3	1.8	2.4	2.1
1,1-Dichloroethene	1.6 U	0.79 U	3.3	4.60	3.7	3.4
1,1-Dichloroethane	1.6 U	0.81 U	0.99	0.94	0.95	1.2
Tetrachloroethene	1.6 J	1.4 U	0.51 J	0.14 U	0.28	2.3
Trichloroethene	4.1	1.1 U	0.22	0.11 U	0.11	0.36
Trichlorofluoromethane	280	102	320 D	75	72	347

SS-18	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	11
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4
Trichloroethene	1.4
Trichlorofluoromethane	309

SS/IA-03	Sub-Slab		Indoor Air			
	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	52	12.3	0.55 J	1.2	1.06	0.57
1,1-Dichloroethene	0.79 U	0.79 U	0.76 J	4.64	2.8	1.2
1,1-Dichloroethane	0.81 U	0.81 U	0.23 J	1.0	0.81 U	0.81 U
Tetrachloroethene	0.37 J	1.4 U	1.4 U	0.14 U	0.27	0.61
Trichloroethene	1.1	1.1 U	0.26	0.155	0.11 U	0.32
Trichlorofluoromethane	24	3.4	180	93	66	154

SS/IA-04	Sub-Slab			Indoor Air			
	Sept-2015	Feb-2016	Jul-2017	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	110	24	97	0.32 J	0.715	0.66	0.54
1,1-Dichloroethene	20	15	10	0.57 J	2.38	1.6	1.1
1,1-Dichloroethane	8.1 U	0.81 U	2.7 U	0.14 J	0.81 U	0.81 U	0.81 U
Tetrachloroethene	17	1.7	19	1.4 U	0.14 U	0.21	0.62
Trichloroethene	1,100	141	1,300	0.21 U	0.11 U	0.13	0.24
Trichlorofluoromethane	190	62	153	180	56	47	166

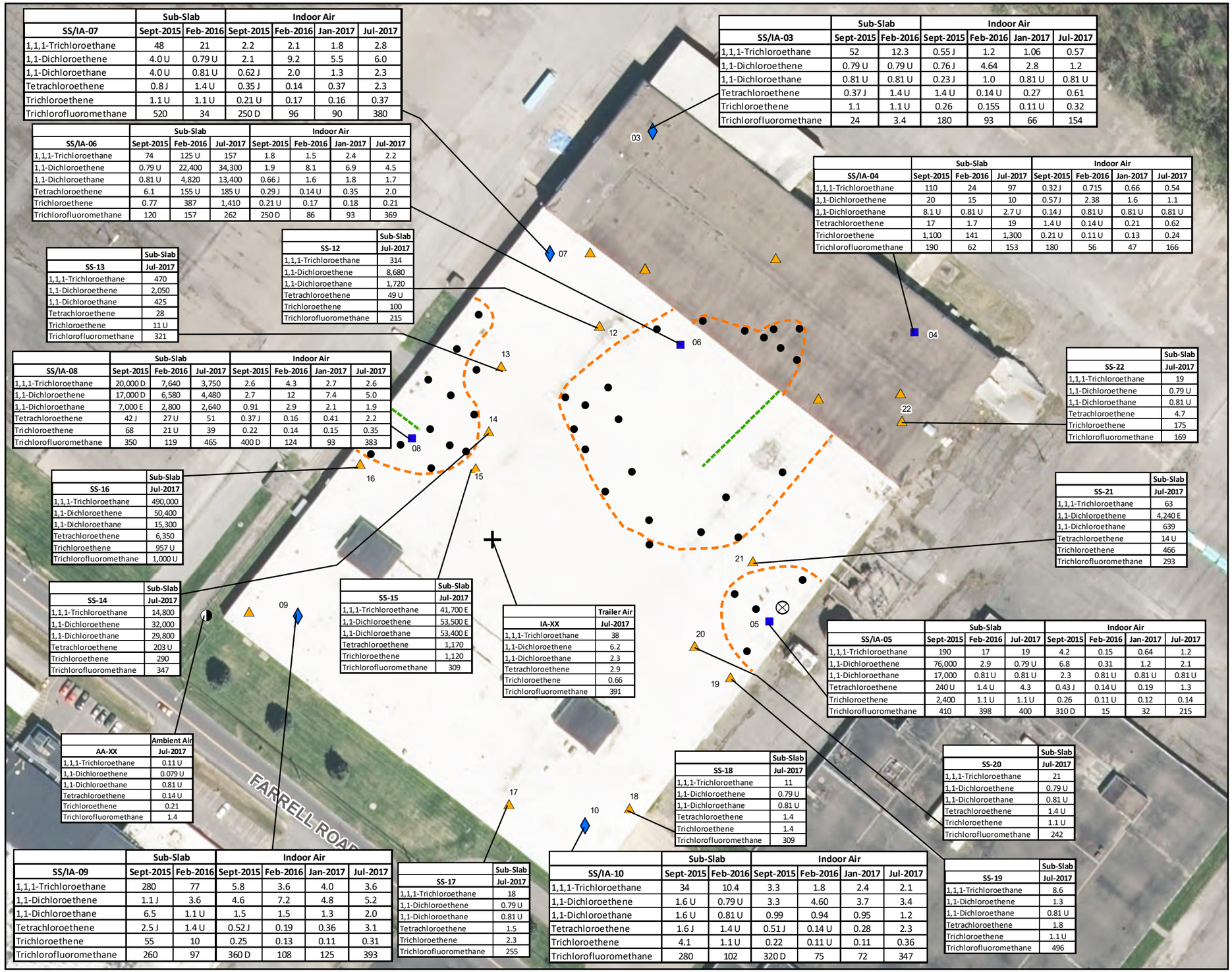
SS-22	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	19
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	4.7
Trichloroethene	175
Trichlorofluoromethane	169

SS-21	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	63
1,1-Dichloroethene	4,240 E
1,1-Dichloroethane	639
Tetrachloroethene	14 U
Trichloroethene	466
Trichlorofluoromethane	293

SS/IA-05	Sub-Slab			Indoor Air			
	Sept-2015	Feb-2016	Jul-2017	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	190	17	19	4.2	0.15	0.64	1.2
1,1-Dichloroethene	76,000	2.9	0.79 U	6.8	0.31	1.2	2.1
1,1-Dichloroethane	17,000	0.81 U	0.81 U	2.3	0.81 U	0.81 U	0.81 U
Tetrachloroethene	240 U	1.4 U	4.3	0.43 J	0.14 U	0.19	1.3
Trichloroethene	2,400	1.1 U	1.1 U	0.26	0.11 U	0.12	0.14
Trichlorofluoromethane	410	398	400	310 D	15	32	215

SS-20	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	21
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4 U
Trichloroethene	1.1 U
Trichlorofluoromethane	242

SS-19	Sub-Slab
	Jul-2017
1,1,1-Trichloroethane	8.6
1,1-Dichloroethene	1.3
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.8
Trichloroethene	1.1 U
Trichlorofluoromethane	496



N

LEGEND

- AMBIENT AIR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- SUB-SLAB & INDOOR AIR SAMPLE LOCATION
- SUB-SLAB SAMPLE LOCATION
- JOY CARPET TRAILER
- AREA OF DEPRESSURIZATION (AS OF JULY 2017)
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SUB-SLAB PIPE
- COMMUNICATION TEST POINT
- SSDS SUCTION POINT

LOCATION ID

SS/IA-09	Sub-Slab		Indoor Air			
	Sept-2015	Feb-2016	Sept-2015	Feb-2016	Jan-2017	Jul-2017
1,1,1-Trichloroethane	280	77	5.8	3.6	4.0	3.6
1,1-Dichloroethene	1.1 J	3.6	4.6	7.2	4.8	5.2
Tetrachloroethene	2.5 J	1.4 U	0.52 J	0.19	0.36	3.1
Trichloroethene	55	10	0.25	0.13	0.11	0.31
Trichlorofluoromethane	260	97	360 D	108	125	393

ANALYTE

RESULT (ug/m3)

NOTES:

- LOCATIONS APPROXIMATE
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
- 'E' INDICATES AN ESTIMATED VALUE
- 'D' INDICATES THAT THE SAMPLE WAS DILUTED BY THE LABORATORY TO ACCURATELY QUANTIFY THE RESULT.

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING RESULTS COMPARISON (SEPTEMBER 2015, FEBRUARY 2016, JANUARY 2017 AND JULY 2017)

0 50 100 200
Feet

JANUARY 2019
5851.64466

O'BRIEN & GERE ENGINEERS, INC.

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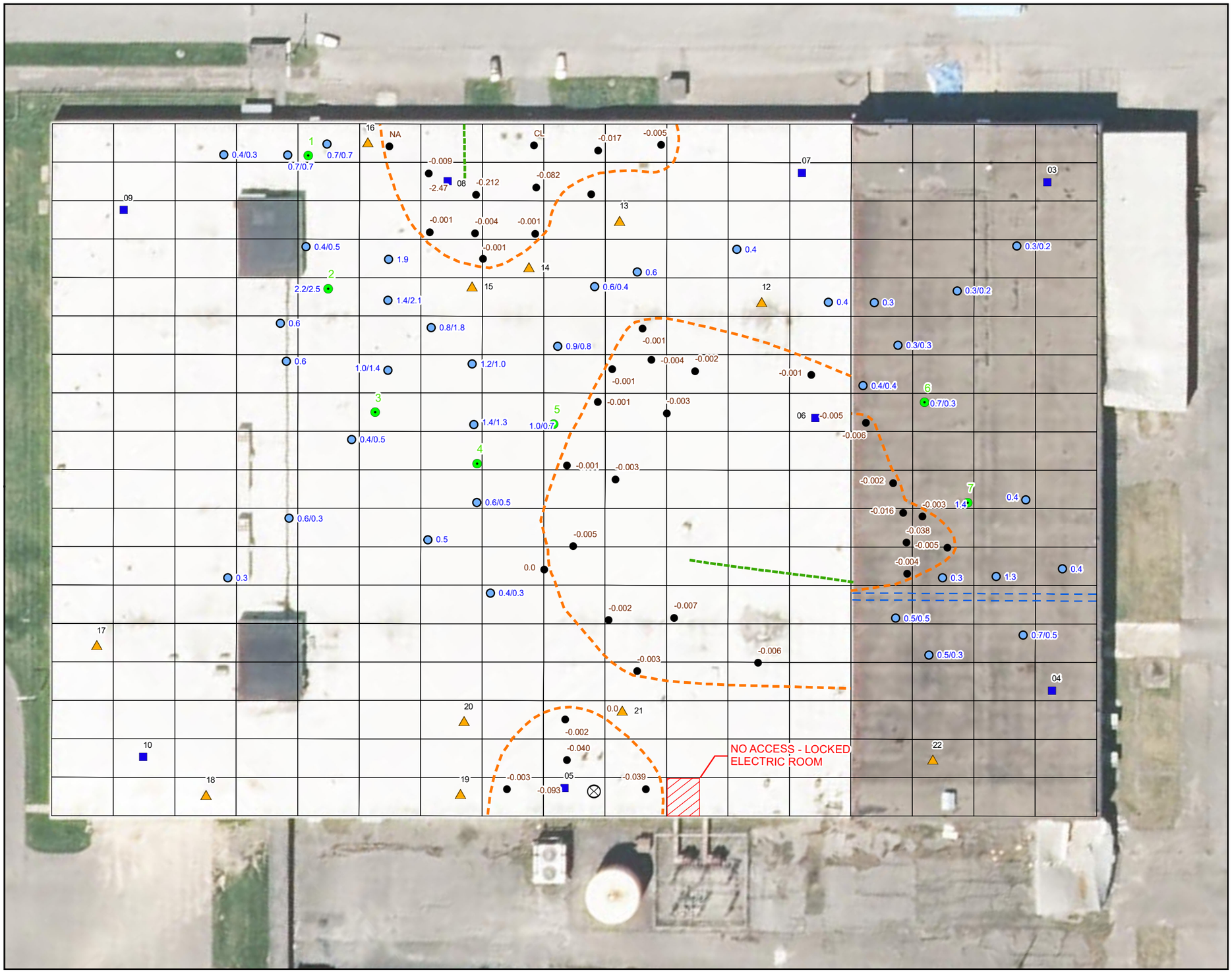
I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-Sel\Docs\Reports\2017 TM\Final Figures\FIGURE 8 - COMM TEST RESULTS SS.mxd



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LEGEND

- COMMUNICATION TEST POINT (CTP) (INCHES OF WATER COLUMN)
- SSDS SUCTION POINT
- PROPOSED SUB-SLAB SAMPLING POINTS
- SUB-SLAB & INDOOR AIR SAMPLE LOCATION
- SUB-SLAB SAMPLE LOCATION
- SUB-SLAB SCREENING POINTS
- AREA OF DEPRESSURIZATION (AS OF SEPTEMBER 2017)
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SUB-SLAB PIPE
- SUB-SLAB UTILITY TRENCH
- 25W X 40H GRID (18 ROWS & 17 COLUMNS)

NOTES:
- LOCATIONS APPROXIMATE
- CTP ABREVIATIONS
  - NA - NO ACCESS
  - NR - NOT RECORDED
  - CL - COULD NOT LOCATE

0.3/0.3 — SUB-SLAB SCREENING POINTS (PARTS PER MILLION)
-0.006 — INCHES OF WATER COLUMN

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

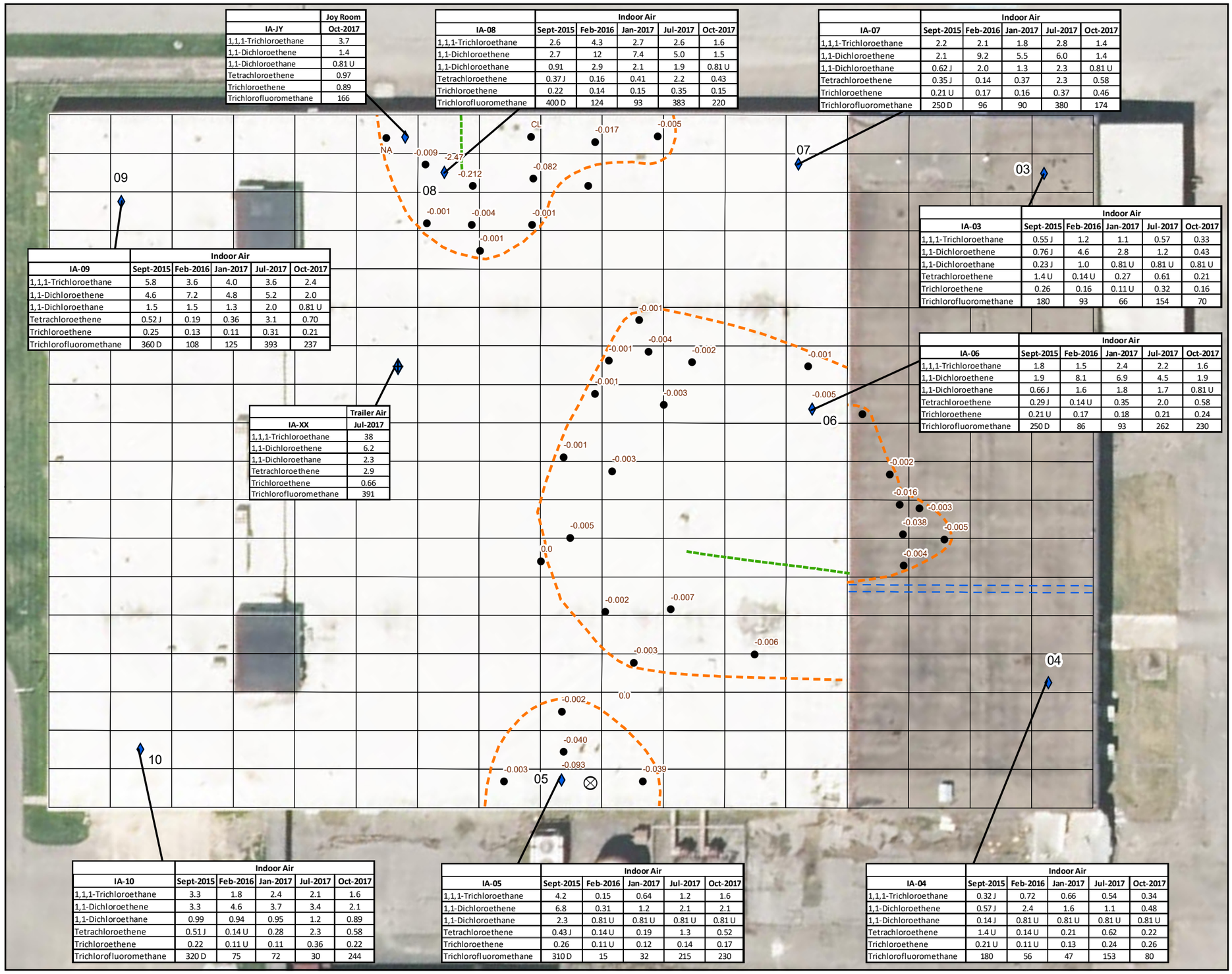
COMMUNICATION TEST RESULTS, SUB-SLAB SCREENING, AND PROPOSED SUB-SLAB SAMPLING LOCATIONS (SEPTEMBER - OCTOBER 2017)

0 32.5 65 130
Feet

5851.64466
NOVEMBER 2018

O'BRIEN & GERE ENGINEERS, INC.

11/2/2018 4:21:37 AM
I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-SelDocs\Reports\2017 TM\Final Figures\FIGURE 9 - IA SAMPLING RESULTS COMPARISON.mxd



IA-JY	Joy Room Oct-2017
1,1,1-Trichloroethane	3.7
1,1-Dichloroethene	1.4
1,1-Dichloroethane	0.81 U
Tetrachloroethene	0.97
Trichloroethene	0.89
Trichlorofluoromethane	166

IA-08	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	2.6	4.3	2.7	2.6	1.6
1,1-Dichloroethene	2.7	12	7.4	5.0	1.5
1,1-Dichloroethane	0.91	2.9	2.1	1.9	0.81 U
Tetrachloroethene	0.37 J	0.16	0.41	2.2	0.43
Trichloroethene	0.22	0.14	0.15	0.35	0.15
Trichlorofluoromethane	400 D	124	93	383	220

IA-07	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	2.2	2.1	1.8	2.8	1.4
1,1-Dichloroethene	2.1	9.2	5.5	6.0	1.4
1,1-Dichloroethane	0.62 J	2.0	1.3	2.3	0.81 U
Tetrachloroethene	0.35 J	0.14	0.37	2.3	0.58
Trichloroethene	0.21 U	0.17	0.16	0.37	0.46
Trichlorofluoromethane	250 D	96	90	380	174

IA-09	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	5.8	3.6	4.0	3.6	2.4
1,1-Dichloroethene	4.6	7.2	4.8	5.2	2.0
1,1-Dichloroethane	1.5	1.5	1.3	2.0	0.81 U
Tetrachloroethene	0.52 J	0.19	0.36	3.1	0.70
Trichloroethene	0.25	0.13	0.11	0.31	0.21
Trichlorofluoromethane	360 D	108	125	393	237

IA-03	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	0.55 J	1.2	1.1	0.57	0.33
1,1-Dichloroethene	0.76 J	4.6	2.8	1.2	0.43
1,1-Dichloroethane	0.23 J	1.0	0.81 U	0.81 U	0.81 U
Tetrachloroethene	1.4 U	0.14 U	0.27	0.61	0.21
Trichloroethene	0.26	0.16	0.11 U	0.32	0.16
Trichlorofluoromethane	180	93	66	154	70

IA-06	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	1.8	1.5	2.4	2.2	1.6
1,1-Dichloroethene	1.9	8.1	6.9	4.5	1.9
1,1-Dichloroethane	0.66 J	1.6	1.8	1.7	0.81 U
Tetrachloroethene	0.29 J	0.14 U	0.35	2.0	0.58
Trichloroethene	0.21 U	0.17	0.18	0.21	0.24
Trichlorofluoromethane	250 D	86	93	262	230

IA-XX	Trailer Air Jul-2017
1,1,1-Trichloroethane	38
1,1-Dichloroethene	6.2
1,1-Dichloroethane	2.3
Tetrachloroethene	2.9
Trichloroethene	0.66
Trichlorofluoromethane	391

IA-10	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	3.3	1.8	2.4	2.1	1.6
1,1-Dichloroethene	3.3	4.6	3.7	3.4	2.1
1,1-Dichloroethane	0.99	0.94	0.95	1.2	0.89
Tetrachloroethene	0.51 J	0.14 U	0.28	2.3	0.58
Trichloroethene	0.22	0.11 U	0.11	0.36	0.22
Trichlorofluoromethane	320 D	75	72	30	244

IA-05	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	4.2	0.15	0.64	1.2	1.6
1,1-Dichloroethene	6.8	0.31	1.2	2.1	2.1
1,1-Dichloroethane	2.3	0.81 U	0.81 U	0.81 U	0.81 U
Tetrachloroethene	0.43 J	0.14 U	0.19	1.3	0.52
Trichloroethene	0.26	0.11 U	0.12	0.14	0.17
Trichlorofluoromethane	310 D	15	32	215	230

IA-04	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	0.32 J	0.72	0.66	0.54	0.34
1,1-Dichloroethene	0.57 J	2.4	1.6	1.1	0.48
1,1-Dichloroethane	0.14 J	0.81 U	0.81 U	0.81 U	0.81 U
Tetrachloroethene	1.4 U	0.14 U	0.21	0.62	0.22
Trichloroethene	0.21 U	0.11 U	0.13	0.24	0.26
Trichlorofluoromethane	180	56	47	153	80

N

LEGEND

- COMMUNICATION TEST POINT (CTP) (INCHES OF WATER COLUMN)
- SSDS SUCTION POINT
- JOY CARPET TRAILER
- INDOOR AIR SAMPLE LOCATION
- AREA OF DEPRESSURIZATION (AS OF OCTOBER 2017)
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SUB-SLAB PIPE
- SUB-SLAB UTILITY TRENCH
- 25W X 40H GRID (18 ROWS & 17 COLUMNS)

LOCATION ID

IA-09	Indoor Air Sept-2015	Feb-2016	Jan-2017	Jul-2017	Oct-2017
1,1,1-Trichloroethane	5.8	3.6	4.0	3.6	2.4
1,1-Dichloroethene	4.6	7.2	4.8	5.2	2.0
1,1-Dichloroethane	1.5	1.5	1.3	2.0	0.81 U
Tetrachloroethene	0.52 J	0.19	0.36	3.1	0.70
Trichloroethene	0.25	0.13	0.11	0.31	0.21
Trichlorofluoromethane	360 D	108	125	393	237

ANALYTE — RESULT (ug/m3)

NOTES:
- LOCATIONS APPROXIMATE
- CTP ABREVIATIONS
  NA - NO ACCESS
  NR - NOT RECORDED
  CL - COULD NOT LOCATE
- -0.006 — INCHES OF WATER COLUMN
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
- 'E' INDICATES AN ESTIMATED VALUE
- 'D' INDICATES THAT THE SAMPLE WAS DILUTED BY THE LABORATORY TO ACCURATELY QUANTIFY THE RESULT.

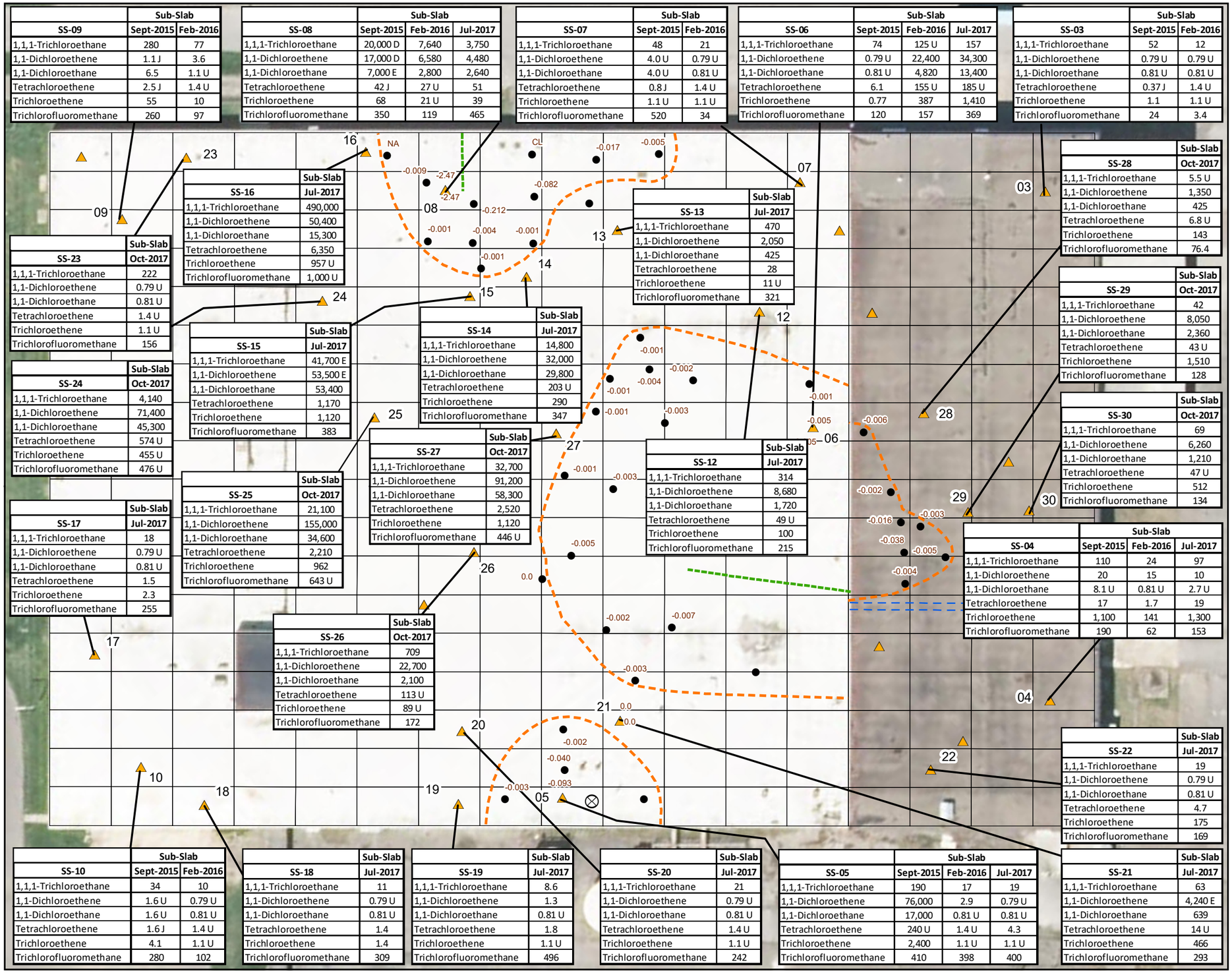
FORMER GE
FARRELL ROAD SITE
GEDDES, NY

INDOOR AIR SAMPLING RESULTS COMPARISON (SEPTEMBER 2015, FEBRUARY 2016, JANUARY 2017, JULY 2017 AND OCTOBER 2017)

0 32.5 65 130
Feet

5851.64466
NOVEMBER 2018

O'BRIEN & GERE ENGINEERS, INC.



	Sub-Slab	
SS-09	Sept-2015	Feb-2016
1,1,1-Trichloroethane	280	77
1,1-Dichloroethene	1.1 J	3.6
1,1-Dichloroethane	6.5	1.1 U
Tetrachloroethene	2.5 J	1.4 U
Trichloroethene	55	10
Trichlorofluoromethane	260	97

	Sub-Slab		
SS-08	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	20,000 D	7,640	3,750
1,1-Dichloroethene	17,000 D	6,580	4,480
1,1-Dichloroethane	7,000 E	2,800	2,640
Tetrachloroethene	42 J	27 U	51
Trichloroethene	68	21 U	39
Trichlorofluoromethane	350	119	465

	Sub-Slab	
SS-07	Sept-2015	Feb-2016
1,1,1-Trichloroethane	48	21
1,1-Dichloroethene	4.0 U	0.79 U
1,1-Dichloroethane	4.0 U	0.81 U
Tetrachloroethene	0.8 J	1.4 U
Trichloroethene	1.1 U	1.1 U
Trichlorofluoromethane	520	34

	Sub-Slab		
SS-06	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	74	125 U	157
1,1-Dichloroethene	0.79 U	22,400	34,300
1,1-Dichloroethane	0.81 U	4,820	13,400
Tetrachloroethene	6.1	155 U	185 U
Trichloroethene	0.77	387	1,410
Trichlorofluoromethane	120	157	369

	Sub-Slab	
SS-03	Sept-2015	Feb-2016
1,1,1-Trichloroethane	52	12
1,1-Dichloroethene	0.79 U	0.79 U
1,1-Dichloroethane	0.81 U	0.81 U
Tetrachloroethene	0.37 J	1.4 U
Trichloroethene	1.1	1.1 U
Trichlorofluoromethane	24	3.4

	Sub-Slab
SS-16	Jul-2017
1,1,1-Trichloroethane	490,000
1,1-Dichloroethene	50,400
1,1-Dichloroethane	15,300
Tetrachloroethene	6,350
Trichloroethene	957 U
Trichlorofluoromethane	1,000 U

	Sub-Slab
SS-13	Jul-2017
1,1,1-Trichloroethane	470
1,1-Dichloroethene	2,050
1,1-Dichloroethane	425
Tetrachloroethene	28
Trichloroethene	11 U
Trichlorofluoromethane	321

	Sub-Slab
SS-28	Oct-2017
1,1,1-Trichloroethane	5.5 U
1,1-Dichloroethene	1,350
1,1-Dichloroethane	425
Tetrachloroethene	6.8 U
Trichloroethene	143
Trichlorofluoromethane	76.4

	Sub-Slab
SS-23	Oct-2017
1,1,1-Trichloroethane	222
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4 U
Trichloroethene	1.1 U
Trichlorofluoromethane	156

	Sub-Slab
SS-15	Jul-2017
1,1,1-Trichloroethane	41,700 E
1,1-Dichloroethene	53,500 E
1,1-Dichloroethane	53,400
Tetrachloroethene	1,170
Trichloroethene	1,120
Trichlorofluoromethane	383

	Sub-Slab
SS-14	Jul-2017
1,1,1-Trichloroethane	14,800
1,1-Dichloroethene	32,000
1,1-Dichloroethane	29,800
Tetrachloroethene	203 U
Trichloroethene	290
Trichlorofluoromethane	347

	Sub-Slab
SS-29	Oct-2017
1,1,1-Trichloroethane	42
1,1-Dichloroethene	8,050
1,1-Dichloroethane	2,360
Tetrachloroethene	43 U
Trichloroethene	1,510
Trichlorofluoromethane	128

	Sub-Slab
SS-24	Oct-2017
1,1,1-Trichloroethane	4,140
1,1-Dichloroethene	71,400
1,1-Dichloroethane	45,300
Tetrachloroethene	574 U
Trichloroethene	455 U
Trichlorofluoromethane	476 U

	Sub-Slab
SS-27	Oct-2017
1,1,1-Trichloroethane	32,700
1,1-Dichloroethene	91,200
1,1-Dichloroethane	58,300
Tetrachloroethene	2,520
Trichloroethene	1,120
Trichlorofluoromethane	446 U

	Sub-Slab
SS-12	Jul-2017
1,1,1-Trichloroethane	314
1,1-Dichloroethene	8,680
1,1-Dichloroethane	1,720
Tetrachloroethene	49 U
Trichloroethene	100
Trichlorofluoromethane	215

	Sub-Slab
SS-30	Oct-2017
1,1,1-Trichloroethane	69
1,1-Dichloroethene	6,260
1,1-Dichloroethane	1,210
Tetrachloroethene	47 U
Trichloroethene	512
Trichlorofluoromethane	134

	Sub-Slab
SS-17	Jul-2017
1,1,1-Trichloroethane	18
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.5
Trichloroethene	2.3
Trichlorofluoromethane	255

	Sub-Slab
SS-25	Oct-2017
1,1,1-Trichloroethane	21,100
1,1-Dichloroethene	155,000
1,1-Dichloroethane	34,600
Tetrachloroethene	2,210
Trichloroethene	962
Trichlorofluoromethane	643 U

	Sub-Slab	
SS-04	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	110	24	97
1,1-Dichloroethene	20	15	10
1,1-Dichloroethane	8.1 U	0.81 U	2.7 U
Tetrachloroethene	17	1.7	19
Trichloroethene	1,100	141	1,300
Trichlorofluoromethane	190	62	153

	Sub-Slab
SS-26	Oct-2017
1,1,1-Trichloroethane	709
1,1-Dichloroethene	22,700
1,1-Dichloroethane	2,100
Tetrachloroethene	113 U
Trichloroethene	89 U
Trichlorofluoromethane	172

	Sub-Slab
SS-22	Jul-2017
1,1,1-Trichloroethane	19
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	4.7
Trichloroethene	175
Trichlorofluoromethane	169

	Sub-Slab	
SS-10	Sept-2015	Feb-2016
1,1,1-Trichloroethane	34	10
1,1-Dichloroethene	1.6 U	0.79 U
1,1-Dichloroethane	1.6 U	0.81 U
Tetrachloroethene	1.6 J	1.4 U
Trichloroethene	4.1	1.1 U
Trichlorofluoromethane	280	102

	Sub-Slab
SS-18	Jul-2017
1,1,1-Trichloroethane	11
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4
Trichloroethene	1.4
Trichlorofluoromethane	309

	Sub-Slab
SS-19	Jul-2017
1,1,1-Trichloroethane	8.6
1,1-Dichloroethene	1.3
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.8
Trichloroethene	1.1 U
Trichlorofluoromethane	496

	Sub-Slab
SS-20	Jul-2017
1,1,1-Trichloroethane	21
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4 U
Trichloroethene	1.1 U
Trichlorofluoromethane	242

	Sub-Slab		
SS-05	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	190	17	19
1,1-Dichloroethene	76,000	2.9	0.79 U
1,1-Dichloroethane	17,000	0.81 U	0.81 U
Tetrachloroethene	240 U	1.4 U	4.3
Trichloroethene	2,400	1.1 U	1.1 U
Trichlorofluoromethane	410	398	400

	Sub-Slab
SS-21	Jul-2017
1,1,1-Trichloroethane	63
1,1-Dichloroethene	4,240 E
1,1-Dichloroethane	639
Tetrachloroethene	14 U
Trichloroethene	466
Trichlorofluoromethane	293

LEGEND

- COMMUNICATION TEST POINT (CTP) (INCHES OF WATER COLUMN)
- SSDS SUCTION POINT
- SUB-SLAB SAMPLE LOCATION
- AREA OF DEPRESSURIZATION (AS OF OCTOBER 2017)
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SUB-SLAB PIPE
- SUB-SLAB UTILITY TRENCH
- 25W X 40H GRID (18 ROWS & 17 COLUMNS)

LOCATION ID

	Sub-Slab		
SS-04	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	110	24	97
1,1-Dichloroethene	20	15	10
1,1-Dichloroethane	8.1 U	0.81 U	2.7 U
Tetrachloroethene	17	1.7	19
Trichloroethene	1,100	141	1,300
Trichlorofluoromethane	190	62	153

ANALYTE — RESULT (ug/m3)

NOTES:
- LOCATIONS APPROXIMATE
- CTP ABREVIATIONS
  NA - NO ACCESS
  NR - NOT RECORDED
  CL - COULD NOT LOCATE
- -0.006 — INCHES OF WATER COLUMN
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
- 'E' INDICATES AN ESTIMATED VALUE
- 'D' INDICATES THAT THE SAMPLE WAS DILUTED BY THE LABORATORY TO ACCURATELY QUANTIFY THE RESULT.

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SUB-SLAB SAMPLING RESULTS COMPARISON (SEPTEMBER 2015, FEBRUARY 2016, JULY 2017 AND OCTOBER 2017)

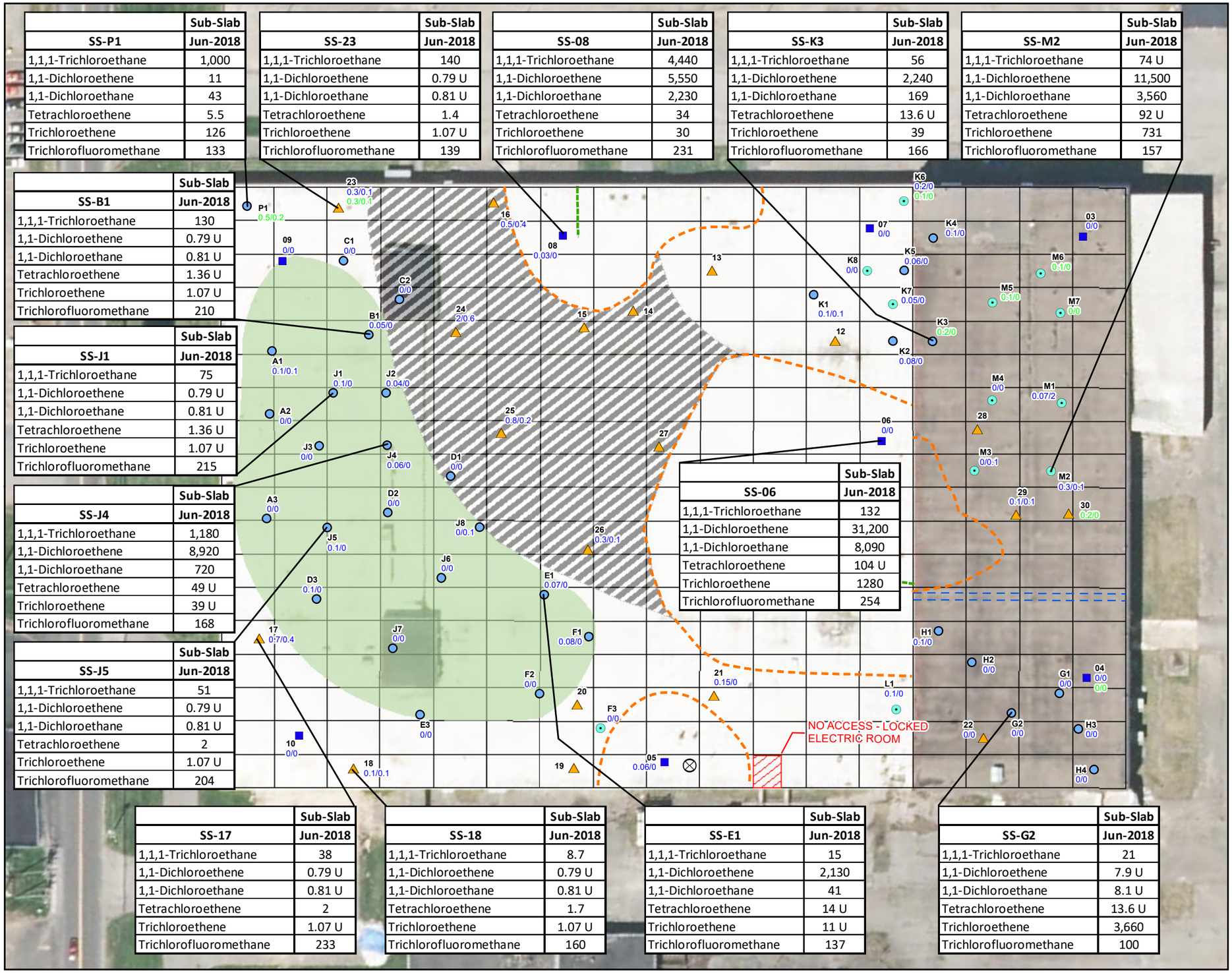
0 32.5 65 130
Feet

JANUARY 2019
5851.64466

O'BRIEN & GERE ENGINEERS, INC.

I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-Sel\Docs\Reports\2017 TM\Final Figures\FIGURE 10 - SS SAMPLING RESULTS COMPARISON_REV2.mxd 1/31/2019 7:47:45 AM

I:\Lockheed-Mar-Fs.585\64466.2016-2017-Vi-Se\Docs\Reports\2017 TM\Final Figures\FIGURE 11 - SS SCREENING AND SAMPLING RESULTS.mxd 11/2/2018 3:50:37 AM



SS-P1	Sub-Slab Jun-2018
1,1,1-Trichloroethane	1,000
1,1-Dichloroethene	11
1,1-Dichloroethane	43
Tetrachloroethene	5.5
Trichloroethene	126
Trichlorofluoromethane	133

SS-23	Sub-Slab Jun-2018
1,1,1-Trichloroethane	140
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4
Trichloroethene	1.07 U
Trichlorofluoromethane	139

SS-08	Sub-Slab Jun-2018
1,1,1-Trichloroethane	4,440
1,1-Dichloroethene	5,550
1,1-Dichloroethane	2,230
Tetrachloroethene	34
Trichloroethene	30
Trichlorofluoromethane	231

SS-K3	Sub-Slab Jun-2018
1,1,1-Trichloroethane	56
1,1-Dichloroethene	2,240
1,1-Dichloroethane	169
Tetrachloroethene	13.6 U
Trichloroethene	39
Trichlorofluoromethane	166

SS-M2	Sub-Slab Jun-2018
1,1,1-Trichloroethane	74 U
1,1-Dichloroethene	11,500
1,1-Dichloroethane	3,560
Tetrachloroethene	92 U
Trichloroethene	731
Trichlorofluoromethane	157

SS-B1	Sub-Slab Jun-2018
1,1,1-Trichloroethane	130
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.36 U
Trichloroethene	1.07 U
Trichlorofluoromethane	210

SS-J1	Sub-Slab Jun-2018
1,1,1-Trichloroethane	75
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.36 U
Trichloroethene	1.07 U
Trichlorofluoromethane	215

SS-J4	Sub-Slab Jun-2018
1,1,1-Trichloroethane	1,180
1,1-Dichloroethene	8,920
1,1-Dichloroethane	720
Tetrachloroethene	49 U
Trichloroethene	39 U
Trichlorofluoromethane	168

SS-J5	Sub-Slab Jun-2018
1,1,1-Trichloroethane	51
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	2
Trichloroethene	1.07 U
Trichlorofluoromethane	204

SS-06	Sub-Slab Jun-2018
1,1,1-Trichloroethane	132
1,1-Dichloroethene	31,200
1,1-Dichloroethane	8,090
Tetrachloroethene	104 U
Trichloroethene	1280
Trichlorofluoromethane	254

SS-17	Sub-Slab Jun-2018
1,1,1-Trichloroethane	38
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	2
Trichloroethene	1.07 U
Trichlorofluoromethane	233

SS-18	Sub-Slab Jun-2018
1,1,1-Trichloroethane	8.7
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.7
Trichloroethene	1.07 U
Trichlorofluoromethane	160

SS-E1	Sub-Slab Jun-2018
1,1,1-Trichloroethane	15
1,1-Dichloroethene	2,130
1,1-Dichloroethane	41
Tetrachloroethene	14 U
Trichloroethene	11 U
Trichlorofluoromethane	137

SS-G2	Sub-Slab Jun-2018
1,1,1-Trichloroethane	21
1,1-Dichloroethene	7.9 U
1,1-Dichloroethane	8.1 U
Tetrachloroethene	13.6 U
Trichloroethene	3,660
Trichlorofluoromethane	100

N

LEGEND

- PREVIOUS SUB-SLAB & INDOOR AIR SAMPLE LOCATION
- PREVIOUS SUB-SLAB SAMPLE LOCATION
- SSDS SUCTION POINT
- SUB-SLAB SCREENING POINTS (OBG INSTALLED)
- SUB-SLAB SCREENING POINTS (CHA INSTALLED)
- AREA OF DEPRESSURIZATION / VENTILATION (AS OF SEPTEMBER 2017)
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SUB-SLAB PIPE
- AREA OF PROPOSED DEPRESSURIZATION / VENTILATION (RECOMMENDED NOVEMBER 2017)
- SUB-SLAB UTILITY TRENCH
- APPROXIMATE AREA OF PROPOSED SUB-SLAB SCREENING AND SUB-SLAB SAMPLING
- 25W X 40H GRID (18 ROWS & 17 COLUMNS)

LOCATION ID

SS-04	Sub-Slab Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	110	24	97
1,1-Dichloroethene	20	15	10
1,1-Dichloroethane	8.1 U	0.81 U	2.7 U
Tetrachloroethene	17	1.7	19
Trichloroethene	1,100	141	1,300
Trichlorofluoromethane	190	62	153

ANALYTE — RESULT (ug/m3)

NOTES:
- LOCATIONS APPROXIMATE
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
- 'E' INDICATES AN ESTIMATED VALUE
- 'D' INDICATES THAT THE SAMPLE WAS DILUTED BY THE LABORATORY TO ACCURATELY QUANTIFY THE RESULT.

- JUNE 06, 2018 0.1/0.2
- JUNE 07, 2018 0.1/0.2

SCREENING RESULTS, ppm (10.6 ev / 11.7ev)

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

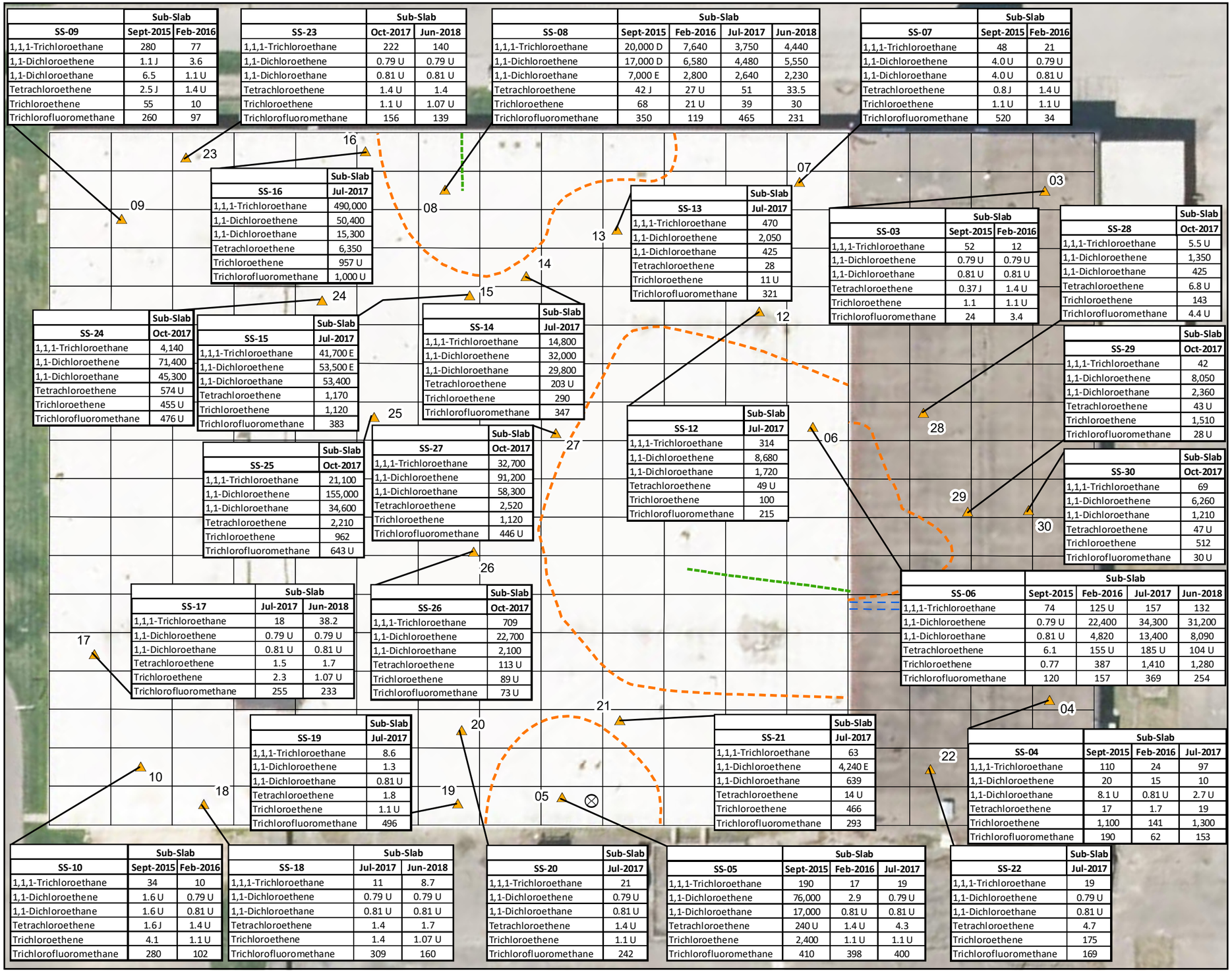
SUB-SLAB SCREENING AND SAMPLING RESULTS JUNE, 2018

0 — 32.5 — 65 — 130
Feet

5851.64466
NOVEMBER 2018

O'BRIEN & GERE ENGINEERS, INC.

11/2/2018 3:53:02 AM
I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-SeDocs\Reports\2017 TM\Final Figures\FIGURE 12 - SS SAMPLING RESULTS COMPARISON.mxd



	Sub-Slab	
SS-09	Sept-2015	Feb-2016
1,1,1-Trichloroethane	280	77
1,1-Dichloroethene	1.1 J	3.6
1,1-Dichloroethane	6.5	1.1 U
Tetrachloroethene	2.5 J	1.4 U
Trichloroethene	55	10
Trichlorofluoromethane	260	97

	Sub-Slab	
SS-23	Oct-2017	Jun-2018
1,1,1-Trichloroethane	222	140
1,1-Dichloroethene	0.79 U	0.79 U
1,1-Dichloroethane	0.81 U	0.81 U
Tetrachloroethene	1.4 U	1.4
Trichloroethene	1.1 U	1.07 U
Trichlorofluoromethane	156	139

	Sub-Slab			
SS-08	Sept-2015	Feb-2016	Jul-2017	Jun-2018
1,1,1-Trichloroethane	20,000 D	7,640	3,750	4,440
1,1-Dichloroethene	17,000 D	6,580	4,480	5,550
1,1-Dichloroethane	7,000 E	2,800	2,640	2,230
Tetrachloroethene	42 J	27 U	51	33.5
Trichloroethene	68	21 U	39	30
Trichlorofluoromethane	350	119	465	231

	Sub-Slab	
SS-07	Sept-2015	Feb-2016
1,1,1-Trichloroethane	48	21
1,1-Dichloroethene	4.0 U	0.79 U
1,1-Dichloroethane	4.0 U	0.81 U
Tetrachloroethene	0.8 J	1.4 U
Trichloroethene	1.1 U	1.1 U
Trichlorofluoromethane	520	34

	Sub-Slab
SS-16	Jul-2017
1,1,1-Trichloroethane	490,000
1,1-Dichloroethene	50,400
1,1-Dichloroethane	15,300
Tetrachloroethene	6,350
Trichloroethene	957 U
Trichlorofluoromethane	1,000 U

	Sub-Slab
SS-13	Jul-2017
1,1,1-Trichloroethane	470
1,1-Dichloroethene	2,050
1,1-Dichloroethane	425
Tetrachloroethene	28
Trichloroethene	11 U
Trichlorofluoromethane	321

	Sub-Slab	
SS-03	Sept-2015	Feb-2016
1,1,1-Trichloroethane	52	12
1,1-Dichloroethene	0.79 U	0.79 U
1,1-Dichloroethane	0.81 U	0.81 U
Tetrachloroethene	0.37 J	1.4 U
Trichloroethene	1.1	1.1 U
Trichlorofluoromethane	24	3.4

	Sub-Slab
SS-28	Oct-2017
1,1,1-Trichloroethane	5.5 U
1,1-Dichloroethene	1,350
1,1-Dichloroethane	425
Tetrachloroethene	6.8 U
Trichloroethene	143
Trichlorofluoromethane	4.4 U

	Sub-Slab
SS-24	Oct-2017
1,1,1-Trichloroethane	4,140
1,1-Dichloroethene	71,400
1,1-Dichloroethane	45,300
Tetrachloroethene	574 U
Trichloroethene	455 U
Trichlorofluoromethane	476 U

	Sub-Slab
SS-15	Jul-2017
1,1,1-Trichloroethane	41,700 E
1,1-Dichloroethene	53,500 E
1,1-Dichloroethane	53,400
Tetrachloroethene	1,170
Trichloroethene	1,120
Trichlorofluoromethane	383

	Sub-Slab
SS-14	Jul-2017
1,1,1-Trichloroethane	14,800
1,1-Dichloroethene	32,000
1,1-Dichloroethane	29,800
Tetrachloroethene	203 U
Trichloroethene	290
Trichlorofluoromethane	347

	Sub-Slab
SS-29	Oct-2017
1,1,1-Trichloroethane	42
1,1-Dichloroethene	8,050
1,1-Dichloroethane	2,360
Tetrachloroethene	43 U
Trichloroethene	1,510
Trichlorofluoromethane	28 U

	Sub-Slab
SS-25	Oct-2017
1,1,1-Trichloroethane	21,100
1,1-Dichloroethene	155,000
1,1-Dichloroethane	34,600
Tetrachloroethene	2,210
Trichloroethene	962
Trichlorofluoromethane	643 U

	Sub-Slab
SS-27	Oct-2017
1,1,1-Trichloroethane	32,700
1,1-Dichloroethene	91,200
1,1-Dichloroethane	58,300
Tetrachloroethene	2,520
Trichloroethene	1,120
Trichlorofluoromethane	446 U

	Sub-Slab
SS-12	Jul-2017
1,1,1-Trichloroethane	314
1,1-Dichloroethene	8,680
1,1-Dichloroethane	1,720
Tetrachloroethene	49 U
Trichloroethene	100
Trichlorofluoromethane	215

	Sub-Slab
SS-30	Oct-2017
1,1,1-Trichloroethane	69
1,1-Dichloroethene	6,260
1,1-Dichloroethane	1,210
Tetrachloroethene	47 U
Trichloroethene	512
Trichlorofluoromethane	30 U

	Sub-Slab		
SS-06	Sept-2015	Feb-2016	Jul-2017	Jun-2018
1,1,1-Trichloroethane	74	125 U	157	132
1,1-Dichloroethene	0.79 U	22,400	34,300	31,200
1,1-Dichloroethane	0.81 U	4,820	13,400	8,090
Tetrachloroethene	6.1	155 U	185 U	104 U
Trichloroethene	0.77	387	1,410	1,280
Trichlorofluoromethane	120	157	369	254

	Sub-Slab		
SS-17	Jul-2017	Jun-2018	
1,1,1-Trichloroethane	18	38.2	
1,1-Dichloroethene	0.79 U	0.79 U	
1,1-Dichloroethane	0.81 U	0.81 U	
Tetrachloroethene	1.5	1.7	
Trichloroethene	2.3	1.07 U	
Trichlorofluoromethane	255	233	

	Sub-Slab
SS-26	Oct-2017
1,1,1-Trichloroethane	709
1,1-Dichloroethene	22,700
1,1-Dichloroethane	2,100
Tetrachloroethene	113 U
Trichloroethene	89 U
Trichlorofluoromethane	73 U

	Sub-Slab
SS-19	Jul-2017
1,1,1-Trichloroethane	8.6
1,1-Dichloroethene	1.3
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.8
Trichloroethene	1.1 U
Trichlorofluoromethane	496

	Sub-Slab
SS-21	Jul-2017
1,1,1-Trichloroethane	63
1,1-Dichloroethene	4,240 E
1,1-Dichloroethane	639
Tetrachloroethene	14 U
Trichloroethene	466
Trichlorofluoromethane	293

	Sub-Slab	
SS-04	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	110	24	97
1,1-Dichloroethene	20	15	10
1,1-Dichloroethane	8.1 U	0.81 U	2.7 U
Tetrachloroethene	17	1.7	19
Trichloroethene	1,100	141	1,300
Trichlorofluoromethane	190	62	153

	Sub-Slab	
SS-10	Sept-2015	Feb-2016
1,1,1-Trichloroethane	34	10
1,1-Dichloroethene	1.6 U	0.79 U
1,1-Dichloroethane	1.6 U	0.81 U
Tetrachloroethene	1.6 J	1.4 U
Trichloroethene	4.1	1.1 U
Trichlorofluoromethane	280	102

	Sub-Slab	
SS-18	Jul-2017	Jun-2018
1,1,1-Trichloroethane	11	8.7
1,1-Dichloroethene	0.79 U	0.79 U
1,1-Dichloroethane	0.81 U	0.81 U
Tetrachloroethene	1.4	1.7
Trichloroethene	1.4	1.07 U
Trichlorofluoromethane	309	160

	Sub-Slab
SS-20	Jul-2017
1,1,1-Trichloroethane	21
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	1.4 U
Trichloroethene	1.1 U
Trichlorofluoromethane	242

	Sub-Slab		
SS-05	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	190	17	19
1,1-Dichloroethene	76,000	2.9	0.79 U
1,1-Dichloroethane	17,000	0.81 U	0.81 U
Tetrachloroethene	240 U	1.4 U	4.3
Trichloroethene	2,400	1.1 U	1.1 U
Trichlorofluoromethane	410	398	400

	Sub-Slab
SS-22	Jul-2017
1,1,1-Trichloroethane	19
1,1-Dichloroethene	0.79 U
1,1-Dichloroethane	0.81 U
Tetrachloroethene	4.7
Trichloroethene	175
Trichlorofluoromethane	169

LEGEND

- SSDS SUCTION POINT
- SUB-SLAB SAMPLE LOCATION
- AREA OF DEPRESSURIZATION (AS OF OCTOBER 2017)
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) SUB-SLAB PIPE
- SUB-SLAB UTILITY TRENCH
- 25W X 40H GRID (18 ROWS & 17 COLUMNS)

LOCATION ID

	Sub-Slab		
SS-04	Sept-2015	Feb-2016	Jul-2017
1,1,1-Trichloroethane	110	24	97
1,1-Dichloroethene	20	15	10
1,1-Dichloroethane	8.1 U	0.81 U	2.7 U
Tetrachloroethene	17	1.7	19
Trichloroethene	1,100	141	1,300
Trichlorofluoromethane	190	62	153

ANALYTE — RESULT (ug/m3)

NOTES:
- LOCATIONS APPROXIMATE
- 'U' INDICATES COMPOUND WAS NOT DETECTED (ND) ABOVE REPORTING LIMIT. REPORTING LIMIT REPORTED.
- 'J' INDICATES RESULT IS LESS THAN THE REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE MINIMUM DETECTION LIMIT AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
- 'E' INDICATES AN ESTIMATED VALUE
- 'D' INDICATES THAT THE SAMPLE WAS DILUTED BY THE LABORATORY TO ACCURATELY QUANTIFY THE RESULT.

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

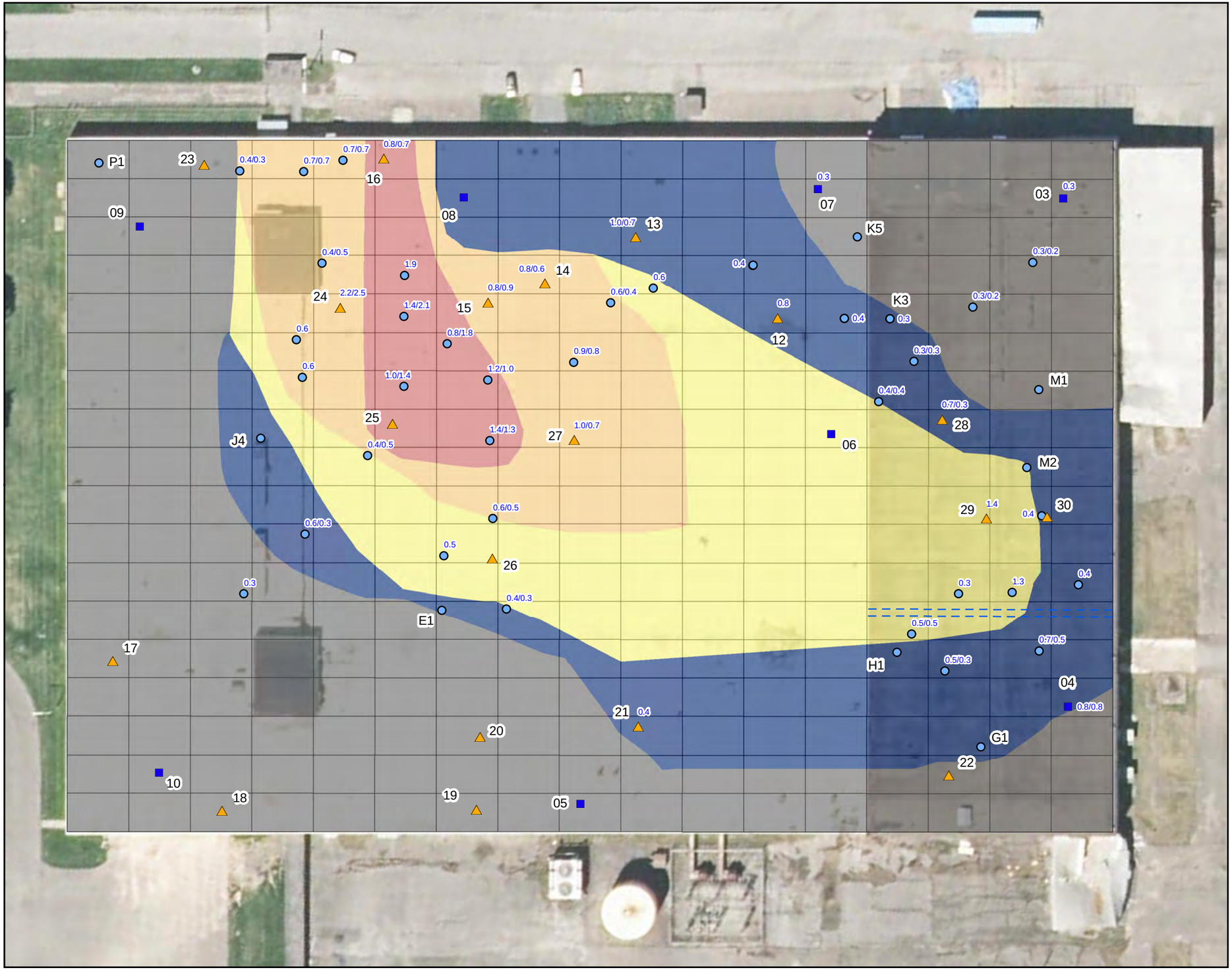
SUB-SLAB SAMPLING RESULTS COMPARISON (SEPTEMBER 2015, FEBRUARY 2016, JULY 2017, OCTOBER 2017, AND JUNE 2018)

0 — 32.5 — 65 — 130
Feet

5851.64466
NOVEMBER 2018

O'BRIEN & GERE ENGINEERS, INC.

I:\Lockheed-Mar-Fs.5851\64466.2016-2017-Vi-Sel\Docs\Reports\2017 Report\Final Figures\FIGURE 13 - INTERPOLATED SS SV CONCENTRATIONS OF TCVOCS.mxd 11/13/2018 3:00:19 PM



N

LEGEND

- SUB-SLAB & INDOOR AIR SAMPLE LOCATION
- SUB-SLAB SAMPLE LOCATION
- SUB-SLAB SCREENING POINTS
- SUB-SLAB UTILITY TRENCH
- 25W X 40H GRID (18 ROWS & 17 COLUMNS)

SUM OF CHLORINATED COMPOUNDS (µg/m³) IN SUB-SLAB VAPOR

- >200,000
- 50,000 - 199,999
- 15,000 - 49,999
- 1,000 - 14,999
- <1,000

NOTES:
- LOCATIONS APPROXIMATE

0.3/0.3 SUB-SLAB PID SCREENING POINTS (PARTS PER MILLION)

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

INTERPOLATED SUB-SLAB SOIL VAPOR CONCENTRATIONS OF TOTAL CHLORINATED COMPOUNDS LATEST SAMPLE RESULTS

0 32.5 65 130
Feet

5851.64466
NOVEMBER 2018

O'BRIEN & GERE ENGINEERS, INC.

Submitted Technical Memorandums

To:	Myron Parkolap	*cc:*	Heather Daniels, LMC
From:	Mark Distler		Phil Talucci, LMC
Re:	Vapor Intrusion Sampling Results, Former GE Farrell Road Site		Virginia Robbins, BS&K
File:	5851/40162.100.100		
Date:	May 24, 2007		

This Technical Memorandum (TM) presents the results of the sampling conducted at the former GE Farrell Road Site (Site) on February 20, 2007. The sampling was performed in accordance with a Work Plan, dated September 19, 2006, and a Work Plan Addendum, dated January 9, 2007. The New York State Department of Environmental Conservation (NYSDEC) in a letter dated January 19, 2007 approved the Work Plan and Work Plan Addendum. This TM also evaluates the data with respect to the potential for vapor intrusion, and provides recommendations.

1. Site Background

The Site consists of 156 acres in an industrial zone setting located on Farrell Road and John Glenn Boulevard in the Town of Geddes, northeast of Routes 690 and 90 and south of the Seneca River. Nearly half of the Site (81 acres) is classified as a Class I wetlands. Ground water flows in a north/northwest direction across the Site toward Seneca River. Depth to ground water in the developed portion of the Site is approximately ten feet below ground surface (bgs). The developed portion of the Site is paved and contains four on-Site buildings; Buildings 1 and 2, former test building, and maintenance garage. Figure 1 shows Buildings 1 and 2.

There are three primary historic source areas relevant to vapor intrusion potential at the Site, referred to as areas of concern (AOC), where interim remedial measures (IRMs) were implemented.[1] The following identifies the location (also shown on Figure 1) and gives a description of each AOC:

- AOC 5, located along the west side of Building 2, was an area where nine underground storage tanks (USTs) and a dry well were removed.
- AOC 7, located along the east side of Building 2, was an area of a former fuel oil UST and where drums containing Freon were rinsed.
- AOC 16, located adjacent to the maintenance garage, was an areas of a former gasoline UST.

Currently, the Site is classified as Class 4 on the New York State Registry of Inactive Hazardous Waste Disposal Sites, based on the effectiveness of the IRMs. A ground water extraction and treatment system at the Site has been deemed effective at controlling off-site migration of shallow contaminated ground water. Concentrations of VOCs in ground water are periodically measured from samples collected from monitoring wells located at the Site. Building 2 is currently operated by Rite Aid Corporation who uses it as warehouse space for product inventory for its retail outlets.

[1] Note that there were other AOCs at the Site where some remedial work was completed, but they are not considered relevant to this investigation.

2. Vapor Intrusion Sampling

Vapor intrusion sampling was conducted on February 20, 2007. Samples of sub-slab vapor, indoor air, and ambient air were collected simultaneously over an 8-hour period. Samples were collected in accordance with the approved Work Plan. Javier Perez of the NYSDEC was present during a portion of the on-Site activities.

2.1 Sampling Locations and Methods

Paired sub-slab vapor and indoor air sample sets were collected at five locations at the northern portion of Building 2, as shown in Figure 1. Sample sets were collected at the following locations:

Sample IDs	Location
SS-1-FR, IA-1-FR	Northwest corner of building
SS-2-FR, IA-2-FR	Middle of northern side of building
SS-3-FR, IA-3-FR	Northeast corner of building
SS-4-FR, IA-4-FR	Northeastern area of building, down gradient of AOC#7
SS-5-FR, IA-5-FR	Loading dock office

In addition to and concurrent with the sub-slab and indoor air sampling, an ambient air sample was collected immediate to and upwind of the building to assess the potential of impacts from upwind air sources on indoor air concentrations. The ambient air sample was located along a fence northwest of the building, as shown on Figure 1.

Air samples were collected using 6-liter pre-evacuated Summa® canisters. Sample collection rates were maintained by laboratory-calibrated constant-differential low volume flow controllers. Vacuum readings of the canisters were obtained and documented prior to sample collection and upon completion of sampling. Sample identifications, vacuum readings, flow controller identification numbers, and other relevant information were recorded on field forms provided in Attachment 1 of this document.

Sub-slab soil vapor samples were collected by drilling a 3/8-inch diameter hole in the building's slab, inserting inert food-grade tubing, sealing the tubing to the slab with beeswax, purging the tubing of indoor air, and slowly pulling (<15 cc/min) sub-slab vapor into a canister. The ambient and indoor air samples were collected by slowly pulling air into the canisters, which were situated at a height of 3 to 5 feet above the ground or slab. Samples were collected over an 8-hour period, utilizing batch certified-clean canisters for sub-slab samples and canisters that were individually certified-clean for low level analysis for indoor and ambient air samples. After sample collection, the canisters were shipped under routine chain-of-custody to a subcontracted laboratory, Air Toxics, Ltd. (Air Toxics) of Folsom, CA, where they were analyzed by USEPA Method TO-15. Air Toxics is certified under the Environmental Laboratory Approval Program (ELAP) and by NYSDOH for TO-15 analyses. Canister certifications and Chain-of-Custody forms can be found with the analytical results in Attachment 2.

2.2 Quality Control

In accordance with the Work Plan, one duplicate sub-slab sample (duplicate to SS-2-FR) was collected as part of this sampling program. The sub-slab sample and duplicate sample were collected by installing a stainless steel "tee" to the sample tubing from which each canister pulled sub-slab vapor. The combined sampling rate of sub-slab vapor from the duplicate sample location was less than 0.03 liters per minute.

Additionally, a Data Usability Summary Report (DUSR) was prepared for this sampling program to compare sample data with validation criteria prescribed by the United States Environmental Protection Agency's (USEPA) data validation guidance[2]. The DUSR, provided as Attachment 3, concludes that the overall data usability with respect to completeness is 100 percent. There were some minor excursions with regards to analytical calibration, analytical blank, and recovery. There were also some results reported above the analytical calibration range without dilution analyses performed. These data are flagged as estimated values.

3. Building Survey and Chemical Inventory

During sampling, a building survey was conducted to inventory VOC-containing materials (such as aerosols, cleaners) in the building and to document building characteristics that may influence indoor air conditions. The completed survey form is provided as Attachment 4.

Building 2's concrete floor (slab) is located on-grade. Except for some narrow cracks in the slab's surface, it is in excellent condition. Multiple floor drains as well as roof drains penetrate the floor throughout the building. The building is used as a warehouse, with few partitioning walls and separate rooms. The building is primarily heated by hot water radiators, located around the perimeter of the building. There is a loading dock area with three overhead doors located along the northern end of the building's west side, where two trucks were being loaded during the sampling. Two fan-operated hot water heating units were located above the dock area. There is a boiler room located near AOC 7, on the eastern side of the building. This room was found to be under neutral pressure with respect to outdoor pressure during boiler operation. There is an office, which is occasionally occupied, located near the loading docks. The office door is normally left open.

A few VOC-containing products were found within the warehouse and office area. Most of the building contents were boxed consumer products stored in the building as inventory for Rite Aid's retail stores. Most of the boxes did not have descriptive information on the boxes, and therefore, identification of VOC-containing materials was not possible. In the office area, a case of aerosol air fresheners was found and then moved at the start of the sampling to an outside hallway that was separate from the office and warehouse areas. Frequent traffic of propane-powered forklift trucks was observed near the loading dock area and throughout the building. The primary sources of VOCs present during the sampling were diesel-powered vehicles at the loading docks and workers smoking cigarettes in the office area and immediately outside the loading dock doors. Details including names and approximate quantities of the individual product containers were recorded on building survey forms provided in Attachment 4.

4. Sampling Results and Data Evaluation

4.1. Sub-Slab and Indoor Air Sampling Results

Sample results for each set of samples (sub-slab and indoor air) are presented together in Table 1 for each sampling location. Results are presented in units of micrograms per cubic meter ($\mu g/m^3$). Only compounds that were detected in samples above their respective reporting limits are included on the table. Compounds that were included in the analysis but not detected are presented in the laboratory data reports, which are provided as

[2] United States Environmental Protection Agency (USEPA). 1994. *Region II Validating Canisters of Volatile Organics in Ambient Air,* HW-18, Revision 0. New York, New York.

Attachment 3. The ratio of sub-slab to indoor air concentrations, referred to as an attenuation factor (AF), is also presented in Table 1 for each compound in the third column for each set of samples.

4.2. Quality Assurance and Quality Control

The duplicate sub-slab sample collected at sampling location 2 revealed excellent overall precision for all compounds. Laboratory analytical results were subjected to data validation requirements in accordance with the USEPA procedures, referenced above. Quality assurance/quality control (QA/QC) samples included laboratory blanks, field duplicates, and matrix spike / matrix spike duplicates (MS/MSD).

4.3. Data Evaluation

The sample results were evaluated to assess if:

- indoor air concentrations were attributable to vapor intrusion,
- indoor air concentrations are above typical background levels for commercial buildings, and
- sub-slab and indoor air concentrations require any follow-on actions as recommended by NYSDOH's two soil vapor / indoor air matrices.

4.3.1. Vapor Intrusion Evaluation

An attenuation factor was calculated for each sample set, as shown on Table 1. The attenuation factor is the ratio of the sub-slab vapor concentration to the indoor air concentration. Attenuation factors are useful in estimating which indoor air concentrations may be attributable solely to vapor intrusion and which are likely attributable to indoor air sources. Attenuation factors greater than 1 (indoor air concentrations are greater than the sub-slab concentrations) indicate that the indoor air concentration is likely attributable primarily to indoor air sources.

Some aromatic compounds (such as, ethylbenzene, toluene, and styrene) have attenuation factors greater than 1 and appear to be present primarily due to indoor air sources. Ethylbenzene and toluene are typically related to petroleum (such as, gasoline and diesel). Therefore, indoor sources of these compounds may include the truck traffic at the loading docks. Styrene is commonly used in foam packing materials that may be used in some of the boxed consumer products stored in the building.

Other aromatic compounds commonly related to petroleum (benzene, xylenes) are also present in indoor air, as well as sub-slab vapor. As noted above in Section 1, the Site was impacted by petroleum compounds at AOC 7 (near sampling location 4). However, the petroleum-related compounds in the sub-slab are present at relatively equivalent concentrations. It is our experience to find a general background level of petroleum compounds of equivalent concentrations in soil vapor near highly trafficked roads, such as Farrell Road and John Glen Boluevard. Therefore, the source of these compounds in sub-slab vapor can be from any one or a combination of three sources: AOC 7, loading dock traffic, and/or nearby roadways. Typically, however, if soil vapor is attributable to a local impact such as AOC 7, then there will be elevated levels of soil vapor in proximity to the impact. Since the concentration of soil vapor at sampling location 4 is essentially equivalent to the other four sampling locations, the petroleum compounds present in the sub-slab samples are more likely due to the general background concentrations of these compounds typically found near roadways. For the samples containing benzene and xylenes where the attenuation factor is less than 1[3] , it is possible that a portion of the indoor air concentrations of these compounds is due to vapor intrusion with the balance due to indoor sources (loading dock

[3] Note that one of the five sampling locations has a benzene attenuation factor less than 1.

truck emissions). The estimated portion of indoor air concentrations attributable to vapor intrusion is discussed in Section 4.3.2.

There were several chlorinated compounds identified that have attenuation factors greater than 1 including:

- Chloromethane
- 1,2-Dichloroethane (1,2-DCA)
- 1,1-Dichloroethene (1,1-DCE)
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- Trichlorofluoromethane (Freon 11)
- Ethanol
- 1,3-Butadiene

Sub-slab levels for all of these compounds, except for 1,1-DCE and Freon 11, are less than the indoor air concentrations at all five sampling locations. Therefore, the primary sources for the indoor air concentrations for these compounds are indoor sources. Ethanol and 1,3-butadiene are likely attributable to emissions of cigarette smoke, which was evident in the building.

1,1-DCE and Freon 11 are known Site contaminants. 1,1-DCE is not a common indoor air contaminant and its indoor air concentrations are relatively low compared to the sub-slab concentrations at sampling location 2. Therefore, the unusually high sub-slab concentration at sampling location 2 may be contributing to the indoor air concentrations found at all sampling locations. Freon 11 is a common indoor contaminant and its indoor air concentrations are relatively high compared to its highest sub-slab concentrations found at sampling location 2. This information along with the presence of dichlorodifluoromethane (Freon 12) in the sub-slab at sampling location 3 indicates that a portion of the Freon 11 and Freon 12 indoor air concentrations are attributable to vapor intrusion. The estimated portion of indoor air concentrations attributable to vapor intrusion is discussed in Section 4.3.2.

For compounds having attenuation factors less than 1, all or a portion of their indoor air concentrations may be attributable to vapor intrusion. Compounds having the highest sub-slab concentrations and attenuation factors less than 1 include:

- Trichloroethene (TCE)
- 1,1,1-Trichloroethane (1,1,1-TCA)
- Acetone
- Dichlorodifluoromethane (Freon 12)
- n-Heptane
- 1,4-Dichlorobenzene
- Xylenes

In general, sub-slab concentrations at the Site are relatively low (all compounds at all locations were detected at concentrations less than 340 $\mu g/m^3$) when compared to other sites where we have seen evidence of vapor intrusion and where sub-slab concentrations are above 1,000 $\mu g/m^3$ by orders of magnitude. With proximity to historically impacted areas, such as AOCs 5, 7 and 16, it is more typical to see increased concentrations in the sub-slab closer to the impacted areas. However, the sampling results at this Site show a relatively low level of

concentrations spread across the entire slab, indicating no particular highly impacted areas. This observation supports our analysis of the sampling results, as discussed in the next section.

4.3.2 Estimated Vapor Intrusion

To help assess the portion of indoor air concentrations attributable to vapor intrusion, we look for an "indicator attenuation factor", that is a compound with a high sub-slab concentration and without any known indoor source. Since the sub-slab concentration of TCE at sampling location 3 was the highest of any compound, and we did not find an indoor air source of TCE, we propose that the attenuation factor for TCE at sample location 3 of 0.001 indicates a true attenuation due to vapor intrusion for the building. A review of Table 1 reveals that there is just one other attenuation factor near the proposed indicator attenuation factor, n-heptane at sampling location 1. Therefore, the attenuation factors suggest that there are only two detected indoor air concentrations attributable solely to vapor intrusion: TCE and n-heptane.

We also propose that the portion of each indoor air concentration attributable to vapor intrusion is equivalent to the associated sub-slab vapor concentration multiplied by the indicator attenuation factor of 0.001. Table 2 presents estimated indoor air concentrations attributable to vapor intrusion derived as proposed. The highest estimated indoor air concentrations attributable to vapor intrusion is 0.3 $\mu g/m^3$ of TCE at sampling location 3, 0.3 $\mu g/m^3$ of 1,1-DCE at sampling location 2, and 0.3 $\mu g/m^3$ of acetone at sampling location 1.

4.3.3 Indoor Air Background Levels

Tables 1 and 2 include indoor air background levels measured by the US Environmental Protection Agency (USEPA) in commercial and public buildings that do not have vapor intrusion[4]. These levels are referenced by NYSDOH and suggested for data evaluation in NYSDOH's vapor intrusion guidance[5]. As can be observed in Table 2, all of the estimated indoor air concentrations attributable to vapor intrusion are well below the indoor air background levels. Therefore, we conclude that vapor intrusion is not occurring, or if it is occurring, it is having minimal impact on indoor air quality.

4.3.4. NYSDOH Matrices

The NYSDOH guidance document has soil vapor / indoor air matrices for TCE, carbon tetrachloride, 1,1,1-TCA, and tetrachloroethene (PCE). Using the sub-slab and indoor concentrations, the matrices suggest the next step in managing potential vapor intrusion. Table 2 includes a column for each sampling location that presents the recommended next step suggested by the matrices, using the indoor air concentrations attributable to vapor intrusion and the sub-slab vapor results.

For TCE at sample location 3, the matrix suggests that mitigation be performed because the sub-slab vapor concentration is high enough that it may potentially cause future indoor air exposure if the slab or building conditions were to change. For TCE at sample locations 1 and 2, the matrix suggests periodic monitoring be performed to identify any future increase in sub-slab vapor and indoor air concentrations if site or building conditions were to change. The matrix suggests that due to TCE results at sample location 5, the property owner should take reasonable action to identify indoor sources and reduce exposure, but since the indoor air concentrations are significantly below typical background levels, this action is not warranted.

[4] USEPA. 2001. "Building Assessment and Survey Evaluation (BASE) Database".
[5] NYSDOH, 2006. "Guidance for Evaluating Soil Vapor Intrusion in the State of New York".

Indoor air concentrations of carbon tetrachloride are equivalent to the ambient air concentration, and therefore, are attributable to outdoor air sources. The NYSDOH matrix would not apply to such a situation, and therefore, we conclude that there is no further action necessary for this compound.

The matrix for 1,1,1-TCA and PCE suggests no further action is recommended for these compounds.

5. Summary and Recommendations for Next Steps

Indoor air concentrations of several compounds were found above sub-slab concentrations and are the result of indoor air sources such as vehicular emissions and cigarette smoking.

In using TCE as an indicator for the vapor intrusion potential, the estimated portion of all reported indoor air concentrations attributable to vapor intrusion (shown in Table 2) are well below background levels. Therefore, we do not recommend any follow-on activity to address current exposures.

However, due to the sub-slab concentration of TCE at sampling location 3, the NYSDOH matrix for TCE suggests that mitigation should be considered to prevent future potential vapor intrusion. Since the other four sampling locations had TCE sub-slab concentrations considerably less than sample location 3, we recommend that TCE at location 3 be re-sampled to confirm the sample result. We suggest collecting three sub-slab samples for the purposes of understanding the variability of sub-slab TCE vapor in the vicinity of sampling location 3: one at the original sampling location 3 and two others on opposite sides of and approximately 20 feet from the original location. We do not recommend collection of additional indoor air or ambient samples. The samples should be collected following the same sampling procedures described in the Work Plan.

Attachments:
Table 1 – Summary of Vapor Intrusion Sampling Results
Table 2 – Summary of Sampling Results Attributable to Vapor Intrusion
Figure 1 – Sampling Locations
Attachment 1 – Field Data Forms
Attachment 2 – Sample Analysis Data
Attachment 3 – Data Usability Summary Report
Attachment 4 – Building Survey Form

TABLES

Table 1
Summary of Vapor Intrusion Sampling Results
Former GE Farrell Road (NYSDEC Site # 7-34-055)
Geddes, NY

			Sample Location:	*1*			*2*				*3*			*4*			*5*		
			Sample Type:	Ambient Upwind	Sub-Slab	Indoor Air	AF	Sub-Slab	Sub-Slab	Indoor Air	AF	Sub-Slab	Indoor Air	AF	Sub-Slab	Indoor Air	AF	Sub-Slab	Indoor Air	AF
	Indoor Air Background	OSHA	Sample I.D.:	AA-FR	SS-1-FR	IA-1-FR	(α)	SS-2-FR	SS-DUP-FR	IA-2-FR	(α)	SS-3-FR	IA-3-FR	(α)	SS-4-FR	IA-4-FR	(α)	SS-5-FR	IA-5-FR	(α)
Compound	Levels[a]	PEL[b]	Sample Date:	2/20/07	2/20/07	2/20/07		2/20/07	2/20/07	2/20/07		2/20/07	2/20/07		2/20/07	2/20/07		2/20/07	2/20/07	
Trichloroethene	4.2	537,354		<0.18	15	0.26	0.02	7.8	8.2	0.39	0.05	340	0.32	**0.001**	1.2	<0.28	<0.2	4.7	0.33	0.07
Carbon Tetrachloride	<1.3	62,672		0.58	<3.5	0.60	>0.2	<1.3	<1.4	0.63	>0.5	<2.1	0.66	>0.3	<1.0	0.55	>0.6	<2.0	0.64	>0.3
1,1,1-Trichloroethane	20.6	1,900,000		<0.9	91	0.99	0.01	53	56	1.3	0.02	25	0.93	0.04	24	1.0 J	0.04	68	0.98	0.01
Tetrachloroethene	15.9	678,288		<1.1	<3.8	<1.0	NA	<1.4	<1.5	<1.2	NA	2.4	<1.1	<0.5	4.6	<1.3	<0.3	<2.2	<1.2	NA
Acetone	98.9	2,400,000		7.9	280	19	0.07	72	77	<19	0.3	100	<21	0.2	64	<17	0.3	93	<21	0.2
Bromomethane	<1.7	80,000[c]		<0.65	<2.2 J	<0.60	NA	<0.83 J	<0.85 J	<0.68	NA	<1.3 J	<0.61	NA	0.65 J	<0.77	<1.2	<1.2 J	<0.68	NA
Carbon Disulfide	4.2	62,279		<2.6	<6.9	<2.4	NA	8.5	<3.4	<2.7	<0.3	<5.2	2.7	>0.5	6.5	<3.1	<0.5	7.8	<2.7	<0.3
Chloromethane	3.7	206,492		0.93	1.2	1.6	1.3	<0.44	<0.45	1.5	>3	<0.69	1.5	>2	0.54 J	1.4	3	<0.66	1.5	>2
1,1-Dichloroethane	<0.7	400,000		<0.68	<2.3	<0.63	NA	15	16	0.68 J	0.05	<1.4	<0.64	NA	<0.68	<0.80	NA	<1.3	<0.71	NA
1,2-Dichloroethane	<0.9	202,362		<0.68	20	54	3	<0.87	<0.89	57	>66	<1.4	57	>41	1.1	52	47	2.1	47	22
1,1-Dichloroethene	<1.4	NA		<0.67	2.8	3.4	1.2	290	300	4.1	0.01	<1.3	3.6	3	<0.67	3.1	>5	<1.3	2.5	>2
trans- 1,2-Dichloroethene	NA	790,000		<0.67	<2.2	<0.61	NA	0.85	<0.87	<0.69	<0.8	<1.3	<0.63	NA	1.1	<0.78	<0.7	<1.3	<0.69	NA
Dichlorodifluoromethane	16.5	4,950,000		3.0	5.2	3.6	0.7	5.3	5.2	3.7	0.7	120	4.2	0.04	1.7	3.9	2	2.8	4.3	2
1,2-Dichloropropane	<1.6	350,000		<0.78	<2.6	4.6	>1.8	<0.99	<1.0	4.9	>5	<1.6	4.8	>3	<0.78	1.3	>2	<1.5	3.9	>3
cis-1,3-Dichloropropene	<2.3	NA		<0.76	<2.5	2.5	>1.0	<0.97	<0.99	2.4	>2	<1.5	2.2	>1.5	<0.76	1.8	>2	<1.5	2.0	>1.3
trans-1,3-Dichloropropene	<1.3	NA		<0.76	<2.5	0.94	>0.4	<0.97	<0.99	0.94	>1.0	<1.5	1.1	>0.7	<0.76	<0.90	NA	<1.5	<0.79	NA
Trichlorofluoromethane	18.1	240,000		1.4	63	100	1.6	170	170	90	0.5	96	100	1.0	100	85	0.9	6.1	79	13
Ethanol	210	1,900,000		5.8 J	7 J	30 J	4	4.1 J	5.2 J	29 J	7	4.9 J	26 J	5	10 J	23 J	2	18 J	27 J	2
1,3-Butadiene	<3.0	NA		<0.37	1.9	2.7	1.4	<0.47	<0.48	2.4	>5	<0.74	2.4	>3	<0.37	2.0	>5	<0.71	2.3	>3
n-Heptane	NA	2,000,000		<0.69	240	0.91	0.004	19	21	0.96	0.05	70	0.97	0.01	68	1.2	0.02	22	4.7	0.2
Methylene Chloride	10	84,836		<1.2	<3.9	3.5	>0.9	<1.5	<1.5	3	>2	<2.3	2.6	>1.1	<1.2	2.9	>2	<2.2	2.4	>1.1
Methyl Ethyl Ketone	NA	590,000		0.79 J	8.1	6.1 J	0.8	2.5	3.5	4.5	2	3.4	7.6	2	5.1	3.3	0.6	3.0	4.6	2
Methyl Isobutyl Ketone	NA	410,000		<0.69	<2.3	0.66	>0.3	<0.88	<0.90	<0.72	NA	<1.4	<0.65	NA	<0.69	<0.81	NA	<1.3	<0.72	NA
2-Propanol	NA	300,000		<2.1	<6.9	2.9	>0.4	<2.6	<2.7	2.4	>0.9	<4.1	<1.9	NA	<2.1	<2.4	NA	16	<2.2	<0.1
n-Hexane	10.2	1,800,000		<0.59	13	1.6	0.1	4.4	4.3	1.6	0.4	3.4	1.6	0.5	69	1.3	0.02	8.0	1.4	0.2
Cyclohexane	NA	1,050,000		<0.58	5.5	0.55	0.1	2.2	2.3	<0.6	<0.3	3.8	0.55	0.1	33	<0.68	<0.02	3.0	0.76	0.3
1,1,2-Trichloroethane	3.7	45,000		<0.92	<3.0	<0.84	NA	<1.2	<1.2	<0.95	NA	<1.8	<0.86	NA	<0.92	<1.1	NA	<1.8	<0.95	NA
1,3,5-Trimethylbenzene	3.7	NA		<0.82	5.3	1.6	0.3	5.0	5.0	2	0.4	4.2	1.4	0.3	5.4	1.9	0.4	5.7	1.8	0.3
1,2,4-Trimethylbenzene	9.5	NA		<0.82	23	3.3	0.1	23	23	3.7	0.2	18	3.3	0.2	23	3.1	0.1	24	4.2	0.2
1,4-Dichlorobenzene	5.5	450,000		<1.0	92	<0.93	<0.01	96	97	<1.0	<0.01	74	<0.95	<0.01	100	<1.2	<0.01	100	<1.0	<0.01
Benzene	9.4	31,941		0.77	19	14	0.7	5.7	5.6	13	2	9.9	14	1.4	46	13	0.3	6.0	12	2
Ethylbenzene	5.7	435,000		<0.73	10	22	2	7.0	6.7	21	3	7.2	20	3	11	17	2	10	18	2
Toluene	43	753,580		0.97	100	160	1.6	38	38	160	4	35	150	4	110	140	1.3	51	140	3
4-Ethlytoluene	3.6	NA		<0.82	16	3.8	0.2	15	15	4.1	0.3	13	3.4	0.3	16	3.5	0.2	17	4.5	0.3
Styrene	1.9	425,990		<0.72	<2.4	13	>5	<0.91	<0.93	14	>15	<1.4	12	>9	0.96	12	13	1.6	12	8
o-Xylene	7.9	435,000		<0.73	15	7.6	0.5	11	12	7.4	0.7	11	6.8	0.6	16	6.4	0.4	17	8.2	0.5
m&p-Xylenes	22.2	435,000		<0.73	42	22	0.5	31	32	23	0.7	31	21	0.7	45	19	0.4	44	24	0.5
Cumene	NA	245,000		<0.82	<2.8	<0.76	NA	<1.0	<1.1	<0.86	NA	<1.6	<0.78	NA	1.1	<0.97	<0.9	<1.6	<0.86	NA
Propylbenzene	NA	NA		<0.82	3.2	0.92	0.3	2.7	2.8	0.94	0.3	2.7	0.84	0.3	3.2	<0.97	<0.3	3.4	0.97	0.3

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

[a] Indoor air concentrations measured in commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile values taken from the EPA 2001 BASE Database as reported in the NYSDOH vapor intrusion guidance (October 2006).

[b] OSHA Permissible exposure limit (PEL), 8-hour time weighted average, 29 CFR 1910.1000.

[c] OSHA 29 CFR 1910.1000 defines the PEL for this compound as a ceiling limit, not an 8-hour time weighted average.

<## - Compound not detected above the reporting limit (##).

NA - Not available

AF - attenuation factor (indoor conc. / sub-slab conc.). Not calculated when both sample results are below the reporting limit.

J - Results reported as estimated values reported from the laboratory or assigned by the data validator. Reasons include (1) minor calibration excursion, (2) minor blank excursion, and/or (3) reported results exceeding the upper calibration range and dilution analyses were not performed.

Table 2
Summary of Sampling Results Attributable to Vapor Intrusion
Former GE Farrell Road (NYSDEC Site # 7-34-055)
Geddes, NY

		Sample Location:	*1*				*2*					*3*				*4*				*5*			
	Indoor Air	Sample Type:	Ambient Upwind	Sub-Slab	Indoor Air	Indoor Air Attributable to VI[b]		Sub-Slab	Sub-Slab	Indoor Air	Indoor Air Attributable to VI[b]		Sub-Slab	Indoor Air	Indoor Air Attributable to VI[b]		Sub-Slab	Indoor Air	Indoor Air Attributable to VI[b]		Sub-Slab	Indoor Air	Indoor Air Attributable to VI[b]	
	Background	Sample I.D.:	AA-FR	SS-1-FR	IA-1-FR	IA-1-FR	NYSDOH	SS-2-FR	SS-DUP-FR	IA-2-FR	IA-2-FR	NYSDOH	SS-3-FR	IA-3-FR	IA-3-FR	NYSDOH	SS-4-FR	IA-4-FR	IA-4-FR	NYSDOH	SS-5-FR	IA-5-FR	IA-5-FR	NYSDOH
Compound	Levels[a]	Sample Date:	2/20/07	2/20/07	2/20/07	2/20/07	Matrix[c]	2/20/07	2/20/07	2/20/07	2/20/07	Matrix[c]	2/20/07	2/20/07	2/20/07	Matrix[c]	2/20/07	2/20/07	2/20/07	Matrix[c]	2/20/07	2/20/07	2/20/07	Matrix[c]
Trichloroethene	4.2		<0.18	15	0.26	0.02	Monitor	7.8	8.2	0.39	0.008	Monitor	340	0.32	0.3	Mitigate	1.2	<0.28	0.001	NFA	4.7	0.33	0.005	IRE
Carbon Tetrachloride	<1.3		0.58	<3.5	0.60	<0.004	NFA[d]	<1.3	<1.4	0.63	<0.001	NFA[d]	<2.1	0.66	<0.002	NFA[d]	<1.0	0.55	<0.001	NFA[d]	<2.0	0.64	<0.002	NFA[d]
1,1,1-Trichloroethane	20.6		<0.9	91	0.99	0.09	NFA	53	56	1.3	0.06	NFA	25	0.93	0.03	NFA	24	1.0 J	0.02	NFA	68	0.98	0.07	NFA
Tetrachloroethene	15.9		<1.1	<3.8	<1.0	<0.004	NFA	<1.4	<1.5	<1.2	<0.002	NFA	2.4	<1.1	0.002	NFA	4.6	<1.3	0.005	NFA	<2.2	<1.2	<0.002	NFA
Acetone	98.9		7.9	280	19	0.3	NA	72	77	<19	0.08	NA	100	<21	0.1	NA	64	<17	0.06	NA	93	<21	0.09	NA
Bromomethane	<1.7		<0.65	<2.2 J	<0.60	<0.002	NA	<0.83 J	<0.85 J	<0.68	<0.0008	NA	<1.3 J	<0.61	<0.001	NA	0.65 J	<0.77	0.0007	NA	<1.2 J	<0.68	<0.001	NA
Carbon Disulfide	4.2		<2.6	<6.9	<2.4	<0.007	NA	8.5	<3.4	<2.7	0.003	NA	<5.2	2.7	0.005	NA	6.5	<3.1	0.007	NA	7.8	<2.7	0.008	NA
Chloromethane	3.7		0.93	1.2	1.6	0.001	NA	<0.44	<0.45	1.5	<0.0005	NA	<0.69	1.5	<0.0007	NA	0.54 J	1.4	0.0005	NA	<0.66	1.5	<0.0007	NA
1,1-Dichloroethane	<0.7		<0.68	<2.3	<0.63	<0.002	NA	15	16	0.68 J	0.02	NA	<1.4	<0.64	<0.001	NA	<0.68	<0.80	<0.0007	NA	<1.3	<0.71	<0.001	NA
1,2-Dichloroethane	<0.9		<0.68	20	54	0.02	NA	<0.87	<0.89	57	<0.0009	NA	<1.4	57	<0.001	NA	1.1	52	0.001	NA	2.1	47	0.002	NA
1,1-Dichloroethene	<1.4		<0.67	2.8	3.4	0.003	NA	290	300	4.1	0.3	NA	<1.3	3.6	<0.001	NA	<0.67	3.1	<0.0007	NA	<1.3	2.5	<0.001	NA
trans- 1,2-Dichloroethene	NA		<0.67	<2.2	<0.61	<0.002	NA	0.85	<0.87	<0.69	0.0009	NA	<1.3	<0.63	<0.001	NA	1.1	<0.78	0.001	NA	<1.3	<0.69	<0.001	NA
Dichlorodifluoromethane	16.5		3.0	5.2	3.6	0.005	NA	5.3	5.2	3.7	0.005	NA	120	4.2	0.1	NA	1.7	3.9	0.002	NA	2.8	4.3	0.003	NA
1,2-Dichloropropane	<1.6		<0.78	<2.6	4.6	<0.003	NA	<0.99	<1.0	4.9	<0.001	NA	<1.6	4.8	<0.002	NA	<0.78	1.3	<0.0008	NA	<1.5	3.9	0.002	NA
cis-1,3-Dichloropropene	<2.3		<0.76	<2.5	2.5	<0.003	NA	<0.97	<0.99	2.4	<0.001	NA	<1.5	2.2	<0.002	NA	<0.76	1.8	<0.0008	NA	<1.5	2.0	<0.002	NA
trans-1,3-Dichloropropene	<1.3		<0.76	<2.5	0.94	<0.003	NA	<0.97	<0.99	0.94	<0.001	NA	<1.5	1.1	<0.002	NA	<0.76	<0.90	<0.0008	NA	<1.5	<0.79	<0.002	NA
Trichlorofluoromethane	18.1		1.4	63	100	0.06	NA	170	170	90	0.2	NA	96	100	0.1	NA	100	85	0.1	NA	6.1	79	0.006	NA
Ethanol	210		5.8 J	7 J	30 J	0.01	NA	4.1 J	5.2 J	29 J	0.004	NA	4.9 J	26 J	0.005	NA	10 J	23 J	0.01	NA	18 J	27 J	0.018	NA
1,3-Butadiene	<3.0		<0.37	1.9	2.7	0.002	NA	<0.47	<0.48	2.4	<0.0005	NA	<0.74	2.4	<0.0007	NA	<0.37	2.0	<0.0004	NA	<0.71	2.3	<0.0007	NA
n-Heptane	NA		<0.69	240	0.91	0.2	NA	19	21	0.96	0.02	NA	70	0.97	0.1	NA	68	1.2	0.07	NA	22	4.7	0.02	NA
Methylene Chloride	10		<1.2	<3.9	3.5	<0.004	NA	<1.5	<1.5	3.0	<0.002	NA	<2.3	2.6	<0.002	NA	<1.2	2.9	<0.001	NA	<2.2	2.4	<0.002	NA
Methyl Ethyl Ketone	NA		0.79 J	8.1	6.1 J	0.008	NA	2.5	3.5	4.5	0.004	NA	3.4	7.6	0.003	NA	5.1	3.3	0.005	NA	3.0	4.6	0.003	NA
Methyl Isobutyl Ketone	NA		<0.69	<2.3	0.66	<0.002	NA	<0.88	<0.90	<0.72	<0.0009	NA	<1.4	<0.65	<0.001	NA	<0.69	<0.81	<0.0007	NA	<1.3	<0.72	<0.001	NA
2-Propanol	NA		<2.1	<6.9	2.9	<0.007	NA	<2.6	<2.7	2.4	<0.003	NA	<4.1	<1.9	<0.004	NA	<2.1	<2.4	<0.002	NA	16	<2.2	0.016	NA
n-Hexane	10.2		<0.59	13	1.6	0.01	NA	4.4	4.3	1.6	0.004	NA	3.4	1.6	0.003	NA	69	1.3	0.07	NA	8.0	1.4	0.008	NA
Cyclohexane	NA		<0.58	5.5	0.55	0.006	NA	2.2	2.3	<0.60	0.002	NA	3.8	0.55	0.004	NA	33	<0.68	0.03	NA	3.0	0.76	0.003	NA
1,1,2-Trichloroethane	3.7		<0.92	<3.0	<0.84	<0.003	NA	<1.2	<1.2	<0.95	<0.001	NA	<1.8	<0.86	<0.002	NA	<0.92	<1.1	<0.0009	NA	<1.8	<0.95	<0.002	NA
1,3,5-Trimethylbenzene	3.7		<0.82	5.3	1.6	0.005	NA	5.0	5.0	2.0	0.005	NA	4.2	1.4	0.004	NA	5.4	1.9	0.005	NA	5.7	1.8	0.006	NA
1,2,4-Trimethylbenzene	9.5		<0.82	23	3.3	0.02	NA	23	23	3.7	0.02	NA	18	3.3	0.02	NA	23	3.1	0.02	NA	24	4.2	0.02	NA
1,4-Dichlorobenzene	5.5		<1.0	92	<0.93	0.09	NA	96	97	<1.0	0.1	NA	74	<0.95	0.07	NA	100	<1.2	0.1	NA	100	<1.0	0.10	NA
Benzene	9.4		0.77	19	14	0.02	NA	5.7	5.6	13	0.006	NA	9.9	14	0.01	NA	46	13	0.05	NA	6.0	12	0.006	NA
Ethylbenzene	5.7		<0.73	10	22	0.01	NA	7.0	6.7	21	0.007	NA	7.2	20	0.007	NA	11	17	0.01	NA	10	18	0.01	NA
Toluene	43		0.97	100	160	0.1	NA	38	38	160	0.04	NA	35	150	0.04	NA	110	140	0.1	NA	51	140	0.05	NA
4-Ethlytoluene	3.6		<0.82	16	3.8	0.02	NA	15	15	4.1	0.02	NA	13	3.4	0.01	NA	16	3.5	0.02	NA	17	4.5	0.02	NA
Styrene	1.9		<0.72	<2.4	13	<0.002	NA	<0.91	<0.93	14	<0.0009	NA	<1.4	12	<0.001	NA	0.96	12	0.001	NA	1.6	12	0.002	NA
o-Xylene	7.9		<0.73	15	7.6	0.02	NA	11	12	7.4	0.01	NA	11	6.8	0.01	NA	16	6.4	0.02	NA	17	8.2	0.02	NA
m&p-Xylenes	22.2		<0.73	42	22	0.04	NA	31	32	23	0.03	NA	31	21	0.03	NA	45	19	0.05	NA	44	24	0.04	NA
Cumene	NA		<0.82	<2.8	<0.76	<0.003	NA	<1.0	<1.1	<0.86	<0.001	NA	<1.6	<0.78	<0.002	NA	1.1	<0.97	0.001	NA	<1.6	<0.86	<0.002	NA
Propylbenzene	NA		<0.82	3.2	0.92	0.003	NA	2.7	2.8	0.94	0.003	NA	2.7	0.84	0.003	NA	3.2	<0.97	0.003	NA	3.4	0.97	0.003	NA

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

[a] Indoor air concentrations measured in commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile values taken from the EPA 2001 BASE Database, as reported in the NYSDOH vapor intrusion guidance (October 2006).

[b] Indoor air concentrations attributable to vapor intrusion. Determined by multiplying the sub-slab concentration by an attenuation factor of 0.001.

[c] NYSDOH vapor intrusion guidance (Oct 2006) recommends actions based on the combination of sub-slab and indoor air concentrations (available for TCE, 111-TCA, Carbon Tetrachloride, and PCE only).

[d] Due to apparent outdoor air sources of this compound, the action presented assumes the indoor air result is not due to vapor intrusion or indoor air sources.

<## - Compound not detected above the reporting limit (##).

NA - Not available

J - Results reported as estimated values reported from the laboratory or assigned by the data validator. Reasons include (1) minor calibration excursion, (2) minor blank excursion, and/or (3) reported results exceeding the upper calibration range and dilution analyses were not performed.

NFA - No further action, as recommended by NYSDOH guidance.

IRE - Property owner should take reasonable and practical actions to identify indoor source(s) and reduce exposures, as recommended by NYSDOH guidance.

Monitor - Per the NYSDOH guidance, monitoring is recommended to assess changes in sub-slab and indoor air concentrations and/or building conditions.

Mitigate - Per the NYSDOH guidance, mitigation is recommended to minimize the current or potential exposures associated with vapor intrusion.

FIGURES

T:\z_misc\AIR_GROUP\5851_LMC\37793\FARREL RD\Sampling Locations.MXD

This document was developed in color. Reproduction in B/W may not represent the data as intended.

PLOT DATE: 05/10/07 DIV. 001 KAC

FIGURE 1

LEGEND

- SUB-SLAB, INDOOR AIR AND AMBIENT AIR SAMPLE LOCATION*
- SITE BOUNDARY*

NOTES:
* - APPROXIMATE LOCATIONS

FORMER GE
FARRELL ROAD SITE
GEDDES, NEW YORK

SAMPLING LOCATIONS

0 50 100 200
Feet

May 2007
40162.100.100

O'BRIEN & GERE ENGINEERS, INC.

ATTACHMENTS

Attachment 1
Field Data Forms

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	40162	Date	2/20/2007
Project Name	LMCO Farrell Rd.	Collector	C.Finke, C. Mckenzie

Structure Location: 241 Farrell Road

Sample Locations: Near column A7

PID/FID meter ID: Pine Environmental

Sample Duration (Intended): 8-Hr

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air SS-DUP Ambient IA-DUP	
Sample ID	IA-1-FR	Sample ID	SS-1-FR	Sample ID	
Canister ID	24228	Canister ID	4164	Canister ID	
Flow Controller ID	"	Flow Controller ID	4164	Flow Controller ID	
Date/Time start	2/20/07 1035	Date/Time start	2/20/07 1035	Date/Time start	
Date/Time end	" 1905	Date/Time end	" 1905	Date/Time end	
Gauge prior to start	3 " Hg	Gauge prior to start	0 " Hg	Gauge prior to start	
Start vacuum	730	Start vacuum	>30	Start vacuum	
End vacuum	6.5	End vacuum	6	End vacuum	
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~62°	Air temperature (°F)	~62°	Air temperature (°F)	
PID/FID reading	83 ppb	PID/FID reading	54 ppb	PID/FID reading	
in. tubing used	0"	in. tubing used	42"	in. tubing used	
Tubing purged?	NA	Tubing purged?	25 cc	Tubing purged?	
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	
Intake height above floor (in)	~36"	Floor slab depth	6 1/4"	Distance to road (ft)	
Floor surface type	Concrete	Intake depth below floor (in)	1/4"	Direction to closest building (degrees)	
Room	Warehouse	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	NA	Room	Warehouse	Intake height above ground level (in)	
	~	Story/level	NA		

Building Survey and Chemical Inventory Form Completed? Y

Photographs Taken? Y

Comments:

Analytical method required: TO 15

Laboratory used: Air Toxics

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	40162	Date	2/20/2007
Project Name	LMCO Farrell Rd.	Collector	C.Finke, C. Mckenzie

Structure Location: 241 Farrell Road

PID/FID meter ID: Pine Environmental

Sample Duration (Intended): 8-Hr

Sample Locations: Near column A15

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP
Sample ID: IA-2-FR	Sample ID: SS-2-FR	Sample ID: SS-DUP-FR
Canister ID: 33679	Canister ID: 12086	Canister ID: 34489
Flow Controller ID: "	Flow Controller ID: "	Flow Controller ID: "
Date/Time start: 2/20/07 1038	Date/Time start: 2/20/07 1038	Date/Time start: 2/20/07 1038
Date/Time end: " 1838	Date/Time end: " 1838	Date/Time end: " 1838
Gauge prior to start: 0 "Hg	Gauge prior to start: 0 "Hg	Gauge prior to start: 0 "Hg
Start vacuum: 29	Start vacuum: 29	Start vacuum: 29
End vacuum: 7	End vacuum: 7	End vacuum: 7
Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F): ~62°	Air temperature (°F): ~62°	Air temperature (°F): ~~62~~ ②
PID/FID reading: 83 ppb	PID/FID reading: 135 ppb	PID/FID reading: -
in. tubing used: 0"	in. tubing used: 42"	in. tubing used: -
Tubing purged? NA	Tubing purged? 25cc	Tubing purged? -
For indoor location:	For indoor location:	For outdoor location:
Noticeable odor: No	Noticeable odor: No	Noticeable odor:
Intake height above floor (in): ~36"	Floor slab depth: 5 ½"	Distance to road (ft):
Floor surface type: Concrete	Intake depth below floor (in): 1/4"	Direction to closest building (degrees):
Room: Warehouse	Floor surface type: Concrete	Distance to closest building (ft):
Story/level: NA	Room: warehouse	Intake height above ground level (in):
-	Story/level: NA	

Building Survey and Chemical Inventory Form Completed? Y

Photographs Taken? Y

Comments:

Analytical method required: TO 15

Laboratory used: Air Toxics

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	40162	Date	2/20/2007
Project Name	LMCO Farrell Rd.	Collector	C.Finke, C. Mckenzie

Structure Location: 241 Farrell Road

PID/FID meter ID: Pine Environmental

Sample Duration (Intended): 8-Hr

Sample Locations: Near column F-3

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP	
Sample ID	IA-3-FR	Sample ID	SS-3-FR	Sample ID	
Canister ID	34724	Canister ID	2979	Canister ID	
Flow Controller ID	"	Flow Controller ID	"	Flow Controller ID	
Date/Time start	2/20/07 1040	Date/Time start	2/20/07 1040	Date/Time start	
Date/Time end	" 1841	Date/Time end	" 1842	Date/Time end	
Gauge prior to start	3 "Hg	Gauge prior to start	0 "Hg	Gauge prior to start	
Start vacuum	30	Start vacuum	30	Start vacuum	
End vacuum	7	End vacuum	7	End vacuum	
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~60°	Air temperature (°F)	~60°	Air temperature (°F)	
PID/FID reading	77 ppb	PID/FID reading	146 ppb	PID/FID reading	
in. tubing used	0"	in. tubing used	42"	in. tubing used	
Tubing purged?	NA	Tubing purged?	25cc	Tubing purged?	
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	
Intake height above floor (in)	~50"	Floor slab depth	6 1/4"	Distance to road (ft)	
Floor surface type	Concrete	Intake depth below floor (in)	1/4"	Direction to closest building (degrees)	
Room	Warehouse	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	NA	Room	Warehouse	Intake height above ground level (in)	
	-	Story/level	NA		

Building Survey and Chemical Inventory Form Completed? Y

Photographs Taken? Y

Comments:

Analytical method required: TO-15

Laboratory used: Air Toxics

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	40162	Date	2/20/2007
Project Name	LMCO Farrell Rd.	Collector	C.Finke, C. Mckenzie

Structure Location

241 Farrell Road

PID/FID meter ID: Pine Environmental

Sample Duration (Intended): 8-Hr

Sample Locations

Near Column 018

Indoor Air Sample		**Sub-structure Sample**		Circle Sample Type: **Indoor Air** / **SS-DUP** / **Ambient** / **IA-DUP**	
Sample ID	IA-4-FR	Sample ID	SS-4-FR	Sample ID	
Canister ID	24230	Canister ID	33663	Canister ID	
Flow Controller ID	11	Flow Controller ID	11	Flow Controller ID	
Date/Time start	2/20/07 1043	Date/Time start	2/20/07 1043	Date/Time start	
Date/Time end	11 1847	Date/Time end	11 1847	Date/Time end	
Gauge prior to start	0 " Hg	Gauge prior to start	0 " Hg	Gauge prior to start	
Start vacuum	30	Start vacuum	30	Start vacuum	
End vacuum	6	End vacuum	6	End vacuum	
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~64°	Air temperature (°F)	~64°	Air temperature (°F)	
PID/FID reading	154 ppb	PID/FID reading	397 ppb	PID/FID reading	
in. tubing used	0"	in. tubing used	42"	in. tubing used	
Tubing purged?	NA	Tubing purged?	25cc	Tubing purged?	
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	
Intake height above floor (in)	~36"	Floor slab depth	6"	Distance to road (ft)	
Floor surface type	Concrete	Intake depth below floor (in)	14"	Direction to closest building (degrees)	
Room	NE of Boiler Room	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	NA	Room	NE of Boiler Room	Intake height above ground level (in)	
	—	Story/level	NA		

Building Survey and Chemical Inventory Form Completed? Y

Photographs Taken? Y

Comments:

Analytical method required: TO 15

Laboratory used: Air Toxics

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	40162	Date	2/20/2007
Project Name	LMCO Farrell Rd.	Collector	C.Finke, C. Mckenzie

Structure Location: 241 Farrell Road

PID/FID meter ID: Pine Environmental

Sample Duration (Intended): 8-Hr

Sample Locations: Office

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP	
Sample ID	IA-5-FR	Sample ID	SS-5-FR	Sample ID	AA-FR
Canister ID	31425	Canister ID	05362	Canister ID	14870
Flow Controller ID	"	Flow Controller ID	"	Flow Controller ID	"
Date/Time start	2/20/07 1046	Date/Time start	2/20/07 1046	Date/Time start	2/20/07 1025
Date/Time end	" 1909	Date/Time end	" 1910	Date/Time end	" 1825
Gauge prior to start	0 "Hg	Gauge prior to start	1 "Hg	Gauge prior to start	0 "Hg
Start vacuum	29	Start vacuum	30	Start vacuum	30
End vacuum	7.5	End vacuum	5.5	End vacuum	5.5
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~69°	Air temperature (°F)	~69°	Air temperature (°F)	41
PID/FID reading	125 ppb	PID/FID reading	305 ppb	PID/FID reading	5 ppb
in. tubing used	0"	in. tubing used	42"	in. tubing used	0"
Tubing purged?	NA	Tubing purged?	25cc	Tubing purged?	NA
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	No
Intake height above floor (in)	~36"	Floor slab depth	7"	Distance to road (ft)	see figure for detail
Floor surface type	Concrete	Intake depth below floor (in)	14"	Direction to closest building (degrees)	
Room	Dock office	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	NA	Room	Dock office	Intake height above ground level (in)	5'
	-	Story/level	NA		-

Building Survey and Chemical Inventory Form Completed? Y

Photographs Taken? Y

Comments:

Analytical method required: TO-15

Laboratory used: Air Toxics

weather cks repeated out Hancock Airport

O'BRIEN & GERE

Vapor Intrusion Weekly Weather and Sample Log

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs
2/20/07	1700	41°F ↓	29.67 ↓	Light Rain	Westerly	3-7 mph	Started Raining @ ~1630 otherwise, no

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used
241 Fenhill Road	AA-FR	IA-1-FR IA-2-FR IA-3-FR IA-4-FR IA-5-FR			6	12
		SS-2-FR	→ SS-DUP			
		SS-1-FS, SS-3-FS SS-4-FS SS-5-FS		x6		

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs
2/21/07	1208	34°F	29.95	None	Westerly	5-10 mph	No

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used
6439 Deere Rd	AA-CS	IA-1-CS, IA-2-CS, IA-3-CS IA-4-CS		5 →	→	10
		SS-1-CS, SS-2-CS SS-4-CS		5		
		SS-3-CS	→ SS-DUP			

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used

Weekly Totals

Structures Sampled	Ambient Samples	Duplicate Samples	Batch Cans Used	Individ. Cert. Cans Used	Total Cans Used

Attachment 2
Sample Analysis Data

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

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Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0702505BR1

Work Order Summary

CLIENT:	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057	**BILL TO:**	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057
PHONE:	315-437-6100	**P.O. #**	
FAX:	315-463-7554	**PROJECT #**	40162 Farrell Rd.
DATE RECEIVED:	02/23/2007	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/12/2007		
DATE REISSUED:	03/27/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
02A	SS-1-FR	Modified TO-15	6.0 "Hg
03A	SS-2-FR	Modified TO-15	6.5 "Hg
04A	SS-3-FR	Modified TO-15	6.0 "Hg
05A	SS-4-FR	Modified TO-15	6.0 "Hg
06A	SS-5-FR	Modified TO-15	5.0 "Hg
07A	SS-DUP-FR	Modified TO-15	7.0 "Hg
08A	Lab Blank	Modified TO-15	NA
09A	CCV	Modified TO-15	NA
10A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda J. Fruman DATE: 04/03/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
OBrien & Gere
Workorder# 0702505BR1

Six 6 Liter Summa Canister samples were received on February 23, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to instrument performance, the reporting limit for MTBE was raised from 0.10 ppbv to 0.50 ppbv in this work order.

THE WORKORDER WAS REISSUED ON 3/27/07 TO REPORT THE RESULT FOR NAPHTHALENE FOR EACH SAMPLE.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not

performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-1-FR

Lab ID#: 0702505BR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.56	1.0	2.8	5.2
Chloromethane	0.56	0.58	1.2	1.2
1,3-Butadiene	0.56	0.85	1.2	1.9
Freon 11	0.56	11	3.1	63
Ethanol	2.8	3.7	5.3	7.0
1,1-Dichloroethene	0.56	0.70	2.2	2.8
Acetone	2.8	120	6.6	280
Hexane	0.56	3.6	2.0	13
2-Butanone (Methyl Ethyl Ketone)	0.56	2.8	1.6	8.1
1,1,1-Trichloroethane	0.56	17	3.0	91
Cyclohexane	0.56	1.6	1.9	5.5
Benzene	0.56	5.8	1.8	19
1,2-Dichloroethane	0.56	4.8	2.3	20
Heptane	0.56	59	2.3	240
Trichloroethene	0.56	2.9	3.0	15
Toluene	0.56	27	2.1	100
Ethyl Benzene	0.56	2.3	2.4	10
m,p-Xylene	0.56	9.6	2.4	42
o-Xylene	0.56	3.6	2.4	15
Propylbenzene	0.56	0.64	2.8	3.2
4-Ethyltoluene	0.56	3.3	2.8	16
1,3,5-Trimethylbenzene	0.56	1.1	2.8	5.3
1,2,4-Trimethylbenzene	0.56	4.8	2.8	23
1,4-Dichlorobenzene	0.56	15	3.4	92

Client Sample ID: SS-2-FR

Lab ID#: 0702505BR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.21	1.1	1.0	5.3
Freon 11	0.21	30	1.2	170
Ethanol	1.1	2.2	2.0	4.1
1,1-Dichloroethene	0.21	74	0.85	290
Acetone	1.1	30	2.5	72
Carbon Disulfide	1.1	2.7	3.3	8.5
trans-1,2-Dichloroethene	0.21	0.22	0.85	0.85
Hexane	0.21	1.2	0.75	4.4

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-2-FR

Lab ID#: 0702505BR1-03A

1,1-Dichloroethane	0.21	3.7	0.87	15
2-Butanone (Methyl Ethyl Ketone)	0.21	0.85	0.63	2.5
1,1,1-Trichloroethane	0.21	9.7	1.2	53
Cyclohexane	0.21	0.64	0.74	2.2
Benzene	0.21	1.8	0.68	5.7
Heptane	0.21	4.7	0.88	19
Trichloroethene	0.21	1.5	1.2	7.8
Toluene	0.21	10	0.81	38
Ethyl Benzene	0.21	1.6	0.93	7.0
m,p-Xylene	0.21	7.2	0.93	31
o-Xylene	0.21	2.6	0.93	11
Propylbenzene	0.21	0.55	1.0	2.7
4-Ethyltoluene	0.21	3.0	1.0	15
1,3,5-Trimethylbenzene	0.21	1.0	1.0	5.0
1,2,4-Trimethylbenzene	0.21	4.6	1.0	23
1,4-Dichlorobenzene	0.21	16	1.3	96

Client Sample ID: SS-3-FR

Lab ID#: 0702505BR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.34	25	1.7	120
Freon 11	0.34	17	1.9	96
Ethanol	1.7	2.6	3.2	4.9
Acetone	1.7	45	4.0	100
Hexane	0.34	3.4	1.2	12
2-Butanone (Methyl Ethyl Ketone)	0.34	1.2	0.99	3.4
1,1,1-Trichloroethane	0.34	4.6	1.8	25
Cyclohexane	0.34	1.1	1.2	3.8
Benzene	0.34	3.1	1.1	9.9
Heptane	0.34	17	1.4	70
Trichloroethene	0.34	63	1.8	340
Toluene	0.34	9.4	1.3	35
Tetrachloroethene	0.34	0.36	2.3	2.4
Ethyl Benzene	0.34	1.6	1.4	7.2
m,p-Xylene	0.34	7.2	1.4	31
o-Xylene	0.34	2.6	1.4	11
Propylbenzene	0.34	0.56	1.6	2.7
4-Ethyltoluene	0.34	2.6	1.6	13

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-3-FR

Lab ID#: 0702505BR1-04A

1,3,5-Trimethylbenzene	0.34	0.86	1.6	4.2
1,2,4-Trimethylbenzene	0.34	3.6	1.6	18
1,4-Dichlorobenzene	0.34	12	2.0	74

Client Sample ID: SS-4-FR

Lab ID#: 0702505BR1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	0.34	0.83	1.7
Chloromethane	0.17	0.26 J	0.35	0.54 J
Bromomethane	0.17	0.17	0.65	0.65
Freon 11	0.17	19	0.94	100
Ethanol	0.84	5.5	1.6	10
Acetone	0.84	27	2.0	64
Carbon Disulfide	0.84	2.1	2.6	6.5
trans-1,2-Dichloroethene	0.17	0.27	0.67	1.1
Hexane	0.17	20	0.59	69
2-Butanone (Methyl Ethyl Ketone)	0.17	1.7	0.50	5.1
1,1,1-Trichloroethane	0.17	4.5	0.92	24
Cyclohexane	0.17	9.5	0.58	33
Benzene	0.17	14	0.54	46
1,2-Dichloroethane	0.17	0.26	0.68	1.1
Heptane	0.17	16	0.69	68
Trichloroethene	0.17	0.23	0.90	1.2
Toluene	0.17	29	0.63	110
Tetrachloroethene	0.17	0.68	1.1	4.6
Ethyl Benzene	0.17	2.5	0.73	11
m,p-Xylene	0.17	10	0.73	45
o-Xylene	0.17	3.6	0.73	16
Styrene	0.17	0.22	0.72	0.96
Cumene	0.17	0.22	0.82	1.1
Propylbenzene	0.17	0.64	0.82	3.2
4-Ethyltoluene	0.17	3.3	0.82	16
1,3,5-Trimethylbenzene	0.17	1.1	0.82	5.4
1,2,4-Trimethylbenzene	0.17	4.7	0.82	23
1,4-Dichlorobenzene	0.17	16	1.0	100

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-5-FR

Lab ID#: 0702505BR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.32	0.57	1.6	2.8
Freon 11	0.32	1.1	1.8	6.1
Ethanol	1.6	9.6	3.0	18
Acetone	1.6	39	3.8	93
2-Propanol	1.6	6.6	4.0	16
Carbon Disulfide	1.6	2.5	5.0	7.8
Hexane	0.32	2.3	1.1	8.0
2-Butanone (Methyl Ethyl Ketone)	0.32	1.0	0.95	3.0
1,1,1-Trichloroethane	0.32	12	1.8	68
Cyclohexane	0.32	0.87	1.1	3.0
Benzene	0.32	1.9	1.0	6.0
1,2-Dichloroethane	0.32	0.52	1.3	2.1
Heptane	0.32	5.5	1.3	22
Trichloroethene	0.32	0.87	1.7	4.7
Toluene	0.32	14	1.2	51
Ethyl Benzene	0.32	2.4	1.4	10
m,p-Xylene	0.32	10	1.4	44
o-Xylene	0.32	3.8	1.4	17
Styrene	0.32	0.37	1.4	1.6
Propylbenzene	0.32	0.68	1.6	3.4
4-Ethyltoluene	0.32	3.5	1.6	17
1,3,5-Trimethylbenzene	0.32	1.2	1.6	5.7
1,2,4-Trimethylbenzene	0.32	4.9	1.6	24
1,4-Dichlorobenzene	0.32	17	1.9	100

Client Sample ID: SS-DUP-FR

Lab ID#: 0702505BR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.22	1.0	1.1	5.2
Freon 11	0.22	31	1.2	170
Ethanol	1.1	2.7	2.1	5.2
1,1-Dichloroethene	0.22	75	0.87	300
Acetone	1.1	32	2.6	77
Hexane	0.22	1.2	0.77	4.3
1,1-Dichloroethane	0.22	3.8	0.89	16
2-Butanone (Methyl Ethyl Ketone)	0.22	1.2	0.64	3.5

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-DUP-FR

Lab ID#: 0702505BR1-07A

1,1,1-Trichloroethane	0.22	10	1.2	56
Cyclohexane	0.22	0.67	0.75	2.3
Benzene	0.22	1.7	0.70	5.6
Heptane	0.22	5.0	0.90	21
Trichloroethene	0.22	1.5	1.2	8.2
Toluene	0.22	10	0.82	38
Ethyl Benzene	0.22	1.5	0.95	6.7
m,p-Xylene	0.22	7.3	0.95	32
o-Xylene	0.22	2.7	0.95	12
Propylbenzene	0.22	0.57	1.1	2.8
4-Ethyltoluene	0.22	3.0	1.1	15
1,3,5-Trimethylbenzene	0.22	1.0	1.1	5.0
1,2,4-Trimethylbenzene	0.22	4.7	1.1	23
1,4-Dichlorobenzene	0.22	16	1.3	97

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-1-FR

Lab ID#: 0702505BR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030822	Date of Collection: 2/20/07
Dil. Factor:	5.60	Date of Analysis: 3/9/07 01:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.56	1.0	2.8	5.2
Freon 114	0.56	Not Detected	3.9	Not Detected
Chloromethane	0.56	0.58	1.2	1.2
Vinyl Chloride	0.56	Not Detected	1.4	Not Detected
1,3-Butadiene	0.56	0.85	1.2	1.9
Bromomethane	0.56	Not Detected	2.2	Not Detected
Chloroethane	0.56	Not Detected	1.5	Not Detected
Freon 11	0.56	11	3.1	63
Ethanol	2.8	3.7	5.3	7.0
Freon 113	0.56	Not Detected	4.3	Not Detected
1,1-Dichloroethene	0.56	0.70	2.2	2.8
Acetone	2.8	120	6.6	280
2-Propanol	2.8	Not Detected	6.9	Not Detected
Carbon Disulfide	2.8	Not Detected	8.7	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	0.56	Not Detected	2.0	Not Detected
trans-1,2-Dichloroethene	0.56	Not Detected	2.2	Not Detected
Hexane	0.56	3.6	2.0	13
1,1-Dichloroethane	0.56	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.56	2.8	1.6	8.1
cis-1,2-Dichloroethene	0.56	Not Detected	2.2	Not Detected
Tetrahydrofuran	2.8	Not Detected	8.2	Not Detected
Chloroform	0.56	Not Detected	2.7	Not Detected
1,1,1-Trichloroethane	0.56	17	3.0	91
Cyclohexane	0.56	1.6	1.9	5.5
Carbon Tetrachloride	0.56	Not Detected	3.5	Not Detected
Benzene	0.56	5.8	1.8	19
1,2-Dichloroethane	0.56	4.8	2.3	20
Heptane	0.56	59	2.3	240
Trichloroethene	0.56	2.9	3.0	15
1,2-Dichloropropane	0.56	Not Detected	2.6	Not Detected
1,4-Dioxane	0.56	Not Detected	2.0	Not Detected
Bromodichloromethane	0.56	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.56	Not Detected	2.5	Not Detected
4-Methyl-2-pentanone	0.56	Not Detected	2.3	Not Detected
Toluene	0.56	27	2.1	100
trans-1,3-Dichloropropene	0.56	Not Detected	2.5	Not Detected
1,1,2-Trichloroethane	0.56	Not Detected	3.0	Not Detected
Tetrachloroethene	0.56	Not Detected	3.8	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-1-FR

Lab ID#: 0702505BR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030822	Date of Collection: 2/20/07
Dil Factor:	5.60	Date of Analysis: 3/9/07 01:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.8	Not Detected	11	Not Detected
Dibromochloromethane	0.56	Not Detected	4.8	Not Detected
1,2-Dibromoethane (EDB)	0.56	Not Detected	4.3	Not Detected
Chlorobenzene	0.56	Not Detected	2.6	Not Detected
Ethyl Benzene	0.56	2.3	2.4	10
m,p-Xylene	0.56	9.6	2.4	42
o-Xylene	0.56	3.6	2.4	15
Styrene	0.56	Not Detected	2.4	Not Detected
Bromoform	0.56	Not Detected	5.8	Not Detected
Cumene	0.56	Not Detected	2.8	Not Detected
1,1,2,2-Tetrachloroethane	0.56	Not Detected	3.8	Not Detected
Propylbenzene	0.56	0.64	2.8	3.2
4-Ethyltoluene	0.56	3.3	2.8	16
1,3,5-Trimethylbenzene	0.56	1.1	2.8	5.3
1,2,4-Trimethylbenzene	0.56	4.8	2.8	23
1,3-Dichlorobenzene	0.56	Not Detected	3.4	Not Detected
1,4-Dichlorobenzene	0.56	15	3.4	92
alpha-Chlorotoluene	0.56	Not Detected	2.9	Not Detected
1,2-Dichlorobenzene	0.56	Not Detected	3.4	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected
Naphthalene	2.8	Not Detected	15	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-2-FR

Lab ID#: 0702505BR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030825	Date of Collection: 2/20/07
Dil. Factor:	2.14	Date of Analysis: 3/9/07 04:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.21	1.1	1.0	5.3
Freon 114	0.21	Not Detected	1.5	Not Detected
Chloromethane	0.21	Not Detected	0.44	Not Detected
Vinyl Chloride	0.21	Not Detected	0.55	Not Detected
1,3-Butadiene	0.21	Not Detected	0.47	Not Detected
Bromomethane	0.21	Not Detected	0.83	Not Detected
Chloroethane	0.21	Not Detected	0.56	Not Detected
Freon 11	0.21	30	1.2	170
Ethanol	1.1	2.2	2.0	4.1
Freon 113	0.21	Not Detected	1.6	Not Detected
1,1-Dichloroethene	0.21	74	0.85	290
Acetone	1.1	30	2.5	72
2-Propanol	1.1	Not Detected	2.6	Not Detected
Carbon Disulfide	1.1	2.7	3.3	8.5
Methylene Chloride	0.43	Not Detected	1.5	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.77	Not Detected
trans-1,2-Dichloroethene	0.21	0.22	0.85	0.85
Hexane	0.21	1.2	0.75	4.4
1,1-Dichloroethane	0.21	3.7	0.87	15
2-Butanone (Methyl Ethyl Ketone)	0.21	0.85	0.63	2.5
cis-1,2-Dichloroethene	0.21	Not Detected	0.85	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	0.21	Not Detected	1.0	Not Detected
1,1,1-Trichloroethane	0.21	9.7	1.2	53
Cyclohexane	0.21	0.64	0.74	2.2
Carbon Tetrachloride	0.21	Not Detected	1.3	Not Detected
Benzene	0.21	1.8	0.68	5.7
1,2-Dichloroethane	0.21	Not Detected	0.87	Not Detected
Heptane	0.21	4.7	0.88	19
Trichloroethene	0.21	1.5	1.2	7.8
1,2-Dichloropropane	0.21	Not Detected	0.99	Not Detected
1,4-Dioxane	0.21	Not Detected	0.77	Not Detected
Bromodichloromethane	0.21	Not Detected	1.4	Not Detected
cis-1,3-Dichloropropene	0.21	Not Detected	0.97	Not Detected
4-Methyl-2-pentanone	0.21	Not Detected	0.88	Not Detected
Toluene	0.21	10	0.81	38
trans-1,3-Dichloropropene	0.21	Not Detected	0.97	Not Detected
1,1,2-Trichloroethane	0.21	Not Detected	1.2	Not Detected
Tetrachloroethene	0.21	Not Detected	1.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-2-FR

Lab ID#: 0702505BR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030825	Date of Collection: 2/20/07
Dil. Factor:	2.14	Date of Analysis: 3/9/07 04:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	1.1	Not Detected	4.4	Not Detected
Dibromochloromethane	0.21	Not Detected	1.8	Not Detected
1,2-Dibromoethane (EDB)	0.21	Not Detected	1.6	Not Detected
Chlorobenzene	0.21	Not Detected	0.98	Not Detected
Ethyl Benzene	0.21	1.6	0.93	7.0
m,p-Xylene	0.21	7.2	0.93	31
o-Xylene	0.21	2.6	0.93	11
Styrene	0.21	Not Detected	0.91	Not Detected
Bromoform	0.21	Not Detected	2.2	Not Detected
Cumene	0.21	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.21	Not Detected	1.5	Not Detected
Propylbenzene	0.21	0.55	1.0	2.7
4-Ethyltoluene	0.21	3.0	1.0	15
1,3,5-Trimethylbenzene	0.21	1.0	1.0	5.0
1,2,4-Trimethylbenzene	0.21	4.6	1.0	23
1,3-Dichlorobenzene	0.21	Not Detected	1.3	Not Detected
1,4-Dichlorobenzene	0.21	16	1.3	96
alpha-Chlorotoluene	0.21	Not Detected	1.1	Not Detected
1,2-Dichlorobenzene	0.21	Not Detected	1.3	Not Detected
1,2,4-Trichlorobenzene	1.1	Not Detected	7.9	Not Detected
Hexachlorobutadiene	1.1	Not Detected	11	Not Detected
Naphthalene	1.1	Not Detected	5.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-3-FR

Lab ID#: 0702505BR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030826	Date of Collection: 2/20/07
Dil. Factor:	3.36	Date of Analysis: 3/9/07 04:39 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.34	25	1.7	120
Freon 114	0.34	Not Detected	2.3	Not Detected
Chloromethane	0.34	Not Detected	0.69	Not Detected
Vinyl Chloride	0.34	Not Detected	0.86	Not Detected
1,3-Butadiene	0.34	Not Detected	0.74	Not Detected
Bromomethane	0.34	Not Detected	1.3	Not Detected
Chloroethane	0.34	Not Detected	0.89	Not Detected
Freon 11	0.34	17	1.9	96
Ethanol	1.7	2.6	3.2	4.9
Freon 113	0.34	Not Detected	2.6	Not Detected
1,1-Dichloroethene	0.34	Not Detected	1.3	Not Detected
Acetone	1.7	45	4.0	100
2-Propanol	1.7	Not Detected	4.1	Not Detected
Carbon Disulfide	1.7	Not Detected	5.2	Not Detected
Methylene Chloride	0.67	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.34	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.34	Not Detected	1.3	Not Detected
Hexane	0.34	3.4	1.2	12
1,1-Dichloroethane	0.34	Not Detected	1.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.34	1.2	0.99	3.4
cis-1,2-Dichloroethene	0.34	Not Detected	1.3	Not Detected
Tetrahydrofuran	1.7	Not Detected	5.0	Not Detected
Chloroform	0.34	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.34	4.6	1.8	25
Cyclohexane	0.34	1.1	1.2	3.8
Carbon Tetrachloride	0.34	Not Detected	2.1	Not Detected
Benzene	0.34	3.1	1.1	9.9
1,2-Dichloroethane	0.34	Not Detected	1.4	Not Detected
Heptane	0.34	17	1.4	70
Trichloroethene	0.34	63	1.8	340
1,2-Dichloropropane	0.34	Not Detected	1.6	Not Detected
1,4-Dioxane	0.34	Not Detected	1.2	Not Detected
Bromodichloromethane	0.34	Not Detected	2.2	Not Detected
cis-1,3-Dichloropropene	0.34	Not Detected	1.5	Not Detected
4-Methyl-2-pentanone	0.34	Not Detected	1.4	Not Detected
Toluene	0.34	9.4	1.3	35
trans-1,3-Dichloropropene	0.34	Not Detected	1.5	Not Detected
1,1,2-Trichloroethane	0.34	Not Detected	1.8	Not Detected
Tetrachloroethene	0.34	0.36	2.3	2.4

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-3-FR

Lab ID#: 0702505BR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030826	Date of Collection: 2/20/07
Dil. Factor:	3.36	Date of Analysis: 3/9/07 04:39 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	1.7	Not Detected	6.9	Not Detected
Dibromochloromethane	0.34	Not Detected	2.9	Not Detected
1,2-Dibromoethane (EDB)	0.34	Not Detected	2.6	Not Detected
Chlorobenzene	0.34	Not Detected	1.5	Not Detected
Ethyl Benzene	0.34	1.6	1.4	7.2
m,p-Xylene	0.34	7.2	1.4	31
o-Xylene	0.34	2.6	1.4	11
Styrene	0.34	Not Detected	1.4	Not Detected
Bromoform	0.34	Not Detected	3.5	Not Detected
Cumene	0.34	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.34	Not Detected	2.3	Not Detected
Propylbenzene	0.34	0.56	1.6	2.7
4-Ethyltoluene	0.34	2.6	1.6	13
1,3,5-Trimethylbenzene	0.34	0.86	1.6	4.2
1,2,4-Trimethylbenzene	0.34	3.6	1.6	18
1,3-Dichlorobenzene	0.34	Not Detected	2.0	Not Detected
1,4-Dichlorobenzene	0.34	12	2.0	74
alpha-Chlorotoluene	0.34	Not Detected	1.7	Not Detected
1,2-Dichlorobenzene	0.34	Not Detected	2.0	Not Detected
1,2,4-Trichlorobenzene	1.7	Not Detected	12	Not Detected
Hexachlorobutadiene	1.7	Not Detected	18	Not Detected
Naphthalene	1.7	Not Detected	8.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-4-FR

Lab ID#: 0702505BR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030827	Date of Collection:	2/20/07
Dil. Factor:	1.68	Date of Analysis:	3/9/07 05:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	0.34	0.83	1.7
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.26 J	0.35	0.54 J
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.17	0.17	0.65	0.65
Chloroethane	0.17	Not Detected	0.44	Not Detected
Freon 11	0.17	19	0.94	100
Ethanol	0.84	5.5	1.6	10
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	27	2.0	64
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	2.1	2.6	6.5
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	0.27	0.67	1.1
Hexane	0.17	20	0.59	69
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	1.7	0.50	5.1
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	4.5	0.92	24
Cyclohexane	0.17	9.5	0.58	33
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
Benzene	0.17	14	0.54	46
1,2-Dichloroethane	0.17	0.26	0.68	1.1
Heptane	0.17	16	0.69	68
Trichloroethene	0.17	0.23	0.90	1.2
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	29	0.63	110
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	0.68	1.1	4.6

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-4-FR

Lab ID#: 0702505BR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030827	Date of Collection: 2/20/07
Dil. Factor:	1.68	Date of Analysis: 3/9/07 05:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	2.5	0.73	11
m,p-Xylene	0.17	10	0.73	45
o-Xylene	0.17	3.6	0.73	16
Styrene	0.17	0.22	0.72	0.96
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	0.22	0.82	1.1
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	0.64	0.82	3.2
4-Ethyltoluene	0.17	3.3	0.82	16
1,3,5-Trimethylbenzene	0.17	1.1	0.82	5.4
1,2,4-Trimethylbenzene	0.17	4.7	0.82	23
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	16	1.0	100
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected
Naphthalene	0.84	Not Detected	4.4	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-5-FR

Lab ID#: 0702505BR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030828	Date of Collection: 2/20/07
Dil. Factor:	3.22	Date of Analysis: 3/9/07 06:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.32	0.57	1.6	2.8
Freon 114	0.32	Not Detected	2.2	Not Detected
Chloromethane	0.32	Not Detected	0.66	Not Detected
Vinyl Chloride	0.32	Not Detected	0.82	Not Detected
1,3-Butadiene	0.32	Not Detected	0.71	Not Detected
Bromomethane	0.32	Not Detected	1.2	Not Detected
Chloroethane	0.32	Not Detected	0.85	Not Detected
Freon 11	0.32	1.1	1.8	6.1
Ethanol	1.6	9.6	3.0	18
Freon 113	0.32	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Acetone	1.6	39	3.8	93
2-Propanol	1.6	6.6	4.0	16
Carbon Disulfide	1.6	2.5	5.0	7.8
Methylene Chloride	0.64	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.32	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Hexane	0.32	2.3	1.1	8.0
1,1-Dichloroethane	0.32	Not Detected	1.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.32	1.0	0.95	3.0
cis-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	0.32	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.32	12	1.8	68
Cyclohexane	0.32	0.87	1.1	3.0
Carbon Tetrachloride	0.32	Not Detected	2.0	Not Detected
Benzene	0.32	1.9	1.0	6.0
1,2-Dichloroethane	0.32	0.52	1.3	2.1
Heptane	0.32	5.5	1.3	22
Trichloroethene	0.32	0.87	1.7	4.7
1,2-Dichloropropane	0.32	Not Detected	1.5	Not Detected
1,4-Dioxane	0.32	Not Detected	1.2	Not Detected
Bromodichloromethane	0.32	Not Detected	2.2	Not Detected
cis-1,3-Dichloropropene	0.32	Not Detected	1.5	Not Detected
4-Methyl-2-pentanone	0.32	Not Detected	1.3	Not Detected
Toluene	0.32	14	1.2	51
trans-1,3-Dichloropropene	0.32	Not Detected	1.5	Not Detected
1,1,2-Trichloroethane	0.32	Not Detected	1.8	Not Detected
Tetrachloroethene	0.32	Not Detected	2.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-5-FR

Lab ID#: 0702505BR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030828	Date of Collection: 2/20/07
Dil. Factor:	3.22	Date of Analysis: 3/9/07 06:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	1.6	Not Detected	6.6	Not Detected
Dibromochloromethane	0.32	Not Detected	2.7	Not Detected
1,2-Dibromoethane (EDB)	0.32	Not Detected	2.5	Not Detected
Chlorobenzene	0.32	Not Detected	1.5	Not Detected
Ethyl Benzene	0.32	2.4	1.4	10
m,p-Xylene	0.32	10	1.4	44
o-Xylene	0.32	3.8	1.4	17
Styrene	0.32	0.37	1.4	1.6
Bromoform	0.32	Not Detected	3.3	Not Detected
Cumene	0.32	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.32	Not Detected	2.2	Not Detected
Propylbenzene	0.32	0.68	1.6	3.4
4-Ethyltoluene	0.32	3.5	1.6	17
1,3,5-Trimethylbenzene	0.32	1.2	1.6	5.7
1,2,4-Trimethylbenzene	0.32	4.9	1.6	24
1,3-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
1,4-Dichlorobenzene	0.32	17	1.9	100
alpha-Chlorotoluene	0.32	Not Detected	1.7	Not Detected
1,2-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
1,2,4-Trichlorobenzene	1.6	Not Detected	12	Not Detected
Hexachlorobutadiene	1.6	Not Detected	17	Not Detected
Naphthalene	1.6	Not Detected	8.4	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-DUP-FR

Lab ID#: 0702505BR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030831	Date of Collection: 2/20/07
Dil. Factor:	2.19	Date of Analysis: 3/9/07 08:26 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.22	1.0	1.1	5.2
Freon 114	0.22	Not Detected	1.5	Not Detected
Chloromethane	0.22	Not Detected	0.45	Not Detected
Vinyl Chloride	0.22	Not Detected	0.56	Not Detected
1,3-Butadiene	0.22	Not Detected	0.48	Not Detected
Bromomethane	0.22	Not Detected	0.85	Not Detected
Chloroethane	0.22	Not Detected	0.58	Not Detected
Freon 11	0.22	31	1.2	170
Ethanol	1.1	2.7	2.1	5.2
Freon 113	0.22	Not Detected	1.7	Not Detected
1,1-Dichloroethene	0.22	75	0.87	300
Acetone	1.1	32	2.6	77
2-Propanol	1.1	Not Detected	2.7	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
Methylene Chloride	0.44	Not Detected	1.5	Not Detected
Methyl tert-butyl ether	0.22	Not Detected	0.79	Not Detected
trans-1,2-Dichloroethene	0.22	Not Detected	0.87	Not Detected
Hexane	0.22	1.2	0.77	4.3
1,1-Dichloroethane	0.22	3.8	0.89	16
2-Butanone (Methyl Ethyl Ketone)	0.22	1.2	0.64	3.5
cis-1,2-Dichloroethene	0.22	Not Detected	0.87	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	0.22	Not Detected	1.1	Not Detected
1,1,1-Trichloroethane	0.22	10	1.2	56
Cyclohexane	0.22	0.67	0.75	2.3
Carbon Tetrachloride	0.22	Not Detected	1.4	Not Detected
Benzene	0.22	1.7	0.70	5.6
1,2-Dichloroethane	0.22	Not Detected	0.89	Not Detected
Heptane	0.22	5.0	0.90	21
Trichloroethene	0.22	1.5	1.2	8.2
1,2-Dichloropropane	0.22	Not Detected	1.0	Not Detected
1,4-Dioxane	0.22	Not Detected	0.79	Not Detected
Bromodichloromethane	0.22	Not Detected	1.5	Not Detected
cis-1,3-Dichloropropene	0.22	Not Detected	0.99	Not Detected
4-Methyl-2-pentanone	0.22	Not Detected	0.90	Not Detected
Toluene	0.22	10	0.82	38
trans-1,3-Dichloropropene	0.22	Not Detected	0.99	Not Detected
1,1,2-Trichloroethane	0.22	Not Detected	1.2	Not Detected
Tetrachloroethene	0.22	Not Detected	1.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-DUP-FR

Lab ID#: 0702505BR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030831	Date of Collection: 2/20/07
Dil Factor:	2.19	Date of Analysis: 3/9/07 08:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	1.1	Not Detected	4.5	Not Detected
Dibromochloromethane	0.22	Not Detected	1.9	Not Detected
1,2-Dibromoethane (EDB)	0.22	Not Detected	1.7	Not Detected
Chlorobenzene	0.22	Not Detected	1.0	Not Detected
Ethyl Benzene	0.22	1.5	0.95	6.7
m,p-Xylene	0.22	7.3	0.95	32
o-Xylene	0.22	2.7	0.95	12
Styrene	0.22	Not Detected	0.93	Not Detected
Bromoform	0.22	Not Detected	2.3	Not Detected
Cumene	0.22	Not Detected	1.1	Not Detected
1,1,2,2-Tetrachloroethane	0.22	Not Detected	1.5	Not Detected
Propylbenzene	0.22	0.57	1.1	2.8
4-Ethyltoluene	0.22	3.0	1.1	15
1,3,5-Trimethylbenzene	0.22	1.0	1.1	5.0
1,2,4-Trimethylbenzene	0.22	4.7	1.1	23
1,3-Dichlorobenzene	0.22	Not Detected	1.3	Not Detected
1,4-Dichlorobenzene	0.22	16	1.3	97
alpha-Chlorotoluene	0.22	Not Detected	1.1	Not Detected
1,2-Dichlorobenzene	0.22	Not Detected	1.3	Not Detected
1,2,4-Trichlorobenzene	1.1	Not Detected	8.1	Not Detected
Hexachlorobutadiene	1.1	Not Detected	12	Not Detected
Naphthalene	1.1	Not Detected	5.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505BR1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: z030812	Date of Collection: NA
Dil. Factor: 1.00	Date of Analysis: 3/8/07 05:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505BR1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030812	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/8/07 05:11 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505BR1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030802	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/8/07 09:14 AM	

Compound	%Recovery
Freon 12	105
Freon 114	104
Chloromethane	106
Vinyl Chloride	106
1,3-Butadiene	99
Bromomethane	132 Q
Chloroethane	135 Q
Freon 11	108
Ethanol	74
Freon 113	106
1,1-Dichloroethene	103
Acetone	92
2-Propanol	92
Carbon Disulfide	100
Methylene Chloride	98
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	101
Hexane	103
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	102
Tetrahydrofuran	104
Chloroform	101
1,1,1-Trichloroethane	100
Cyclohexane	107
Carbon Tetrachloride	107
Benzene	95
1,2-Dichloroethane	104
Heptane	104
Trichloroethene	104
1,2-Dichloropropane	99
1,4-Dioxane	103
Bromodichloromethane	102
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	104
Toluene	102
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	98
Tetrachloroethene	98

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505BR1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030802	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/8/07 09:14 AM	

Compound	%Recovery
2-Hexanone	94
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	101
Chlorobenzene	101
Ethyl Benzene	104
m,p-Xylene	103
o-Xylene	102
Styrene	104
Bromoform	110
Cumene	103
1,1,2,2-Tetrachloroethane	99
Propylbenzene	100
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	100
Naphthalene	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505BR1-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030803	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/8/07 09:52 AM	

Compound	%Recovery
Freon 12	101
Freon 114	97
Chloromethane	103
Vinyl Chloride	106
1,3-Butadiene	100
Bromomethane	93
Chloroethane	136 Q
Freon 11	104
Ethanol	101
Freon 113	110
1,1-Dichloroethene	112
Acetone	112
2-Propanol	104
Carbon Disulfide	102
Methylene Chloride	108
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	100
Hexane	109
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	102
Tetrahydrofuran	116
Chloroform	103
1,1,1-Trichloroethane	99
Cyclohexane	105
Carbon Tetrachloride	102
Benzene	98
1,2-Dichloroethane	108
Heptane	110
Trichloroethene	100
1,2-Dichloropropane	104
1,4-Dioxane	108
Bromodichloromethane	103
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	114
Toluene	107
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	100
Tetrachloroethene	96

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505BR1-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z030803	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/8/07 09:52 AM	

Compound	%Recovery
2-Hexanone	106
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	103
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	105
Styrene	106
Bromoform	112
Cumene	106
1,1,2,2-Tetrachloroethane	104
Propylbenzene	105
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	84
Naphthalene	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

WORK ORDER #: 0702505A

Work Order Summary

CLIENT:	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057	**BILL TO:**	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057
PHONE:	315-437-6100	**P.O. #**	
FAX:	315-463-7554	**PROJECT #**	40162 Farrell Rd.
DATE RECEIVED:	02/23/2007	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/12/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	AA-FR	Modified TO-15	6.0 "Hg
01B	AA-FR	Modified TO-15	6.0 "Hg
08A	IA-1-FR	Modified TO-15	4.0 "Hg
08B	IA-1-FR	Modified TO-15	4.0 "Hg
09A	IA-2-FR	Modified TO-15	7.0 "Hg
09B	IA-2-FR	Modified TO-15	7.0 "Hg
10A	IA-3-FR	Modified TO-15	4.5 "Hg
10B	IA-3-FR	Modified TO-15	4.5 "Hg
11A	IA-4-FR	Modified TO-15	4.5 "Hg
11AA	IA-4-FR Duplicate	Modified TO-15	4.5 "Hg
11B	IA-4-FR	Modified TO-15	4.5 "Hg
11BB	IA-4-FR Duplicate	Modified TO-15	4.5 "Hg
12A	IA-5-FR	Modified TO-15	7.0 "Hg
12B	IA-5-FR Duplicate	Modified TO-15	7.0 "Hg
13A	Lab Blank	Modified TO-15	NA
13B	Lab Blank	Modified TO-15	NA
14A	Lab Blank	Modified TO-15	NA

Continued on next page

WORK ORDER #: 0702505A

Work Order Summary

CLIENT:	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057	**BILL TO:**	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057
PHONE:	315-437-6100	**P.O. #**	
FAX:	315-463-7554	**PROJECT #**	40162 Farrell Rd.
DATE RECEIVED:	02/23/2007	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/12/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
14B	Lab Blank	Modified TO-15	NA
15A	CCV	Modified TO-15	NA
15B	CCV	Modified TO-15	NA
16A	CCV	Modified TO-15	NA
16B	CCV	Modified TO-15	NA
17A	LCS	Modified TO-15	NA
17B	LCS	Modified TO-15	NA
18A	LCS	Modified TO-15	NA
18B	LCS	Modified TO-15	NA

CERTIFIED BY: _____ DATE: 03/12/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
OBrien & Gere
Workorder# 0702505A

Six 6 Liter Summa Special (100% Certified) samples were received on February 23, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Acetone was detected in the laboratory blank analyzed on March 9, 2007 at less than 5X the reporting limit. Associated samples that contained Acetone were flagged as indicated.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AA-FR

Lab ID#: 0702505A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	0.61	0.83	3.0
Chloromethane	0.17	0.45	0.35	0.93
Freon 11	0.17	0.25	0.94	1.4
Ethanol	0.84	3.1 J	1.6	5.8 J
Acetone	0.84	3.3	2.0	7.9
2-Butanone (Methyl Ethyl Ketone)	0.17	0.27 J	0.50	0.79 J
Benzene	0.17	0.24	0.54	0.77
Toluene	0.17	0.26	0.63	0.97

Client Sample ID: AA-FR

Lab ID#: 0702505A-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Tetrachloride	0.034	0.092	0.21	0.58

Client Sample ID: IA-1-FR

Lab ID#: 0702505A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.16	0.73	0.77	3.6
Chloromethane	0.16	0.75	0.32	1.6
1,3-Butadiene	0.16	1.2	0.34	2.7
Freon 11	0.16	18	0.87	100
Ethanol	0.78	16 J	1.5	30 J
1,1-Dichloroethene	0.16	0.84	0.61	3.4
Acetone	0.78	7.8	1.8	19
2-Propanol	0.78	1.2	1.9	2.9
Methylene Chloride	0.31	1.0	1.1	3.5
Hexane	0.16	0.44	0.55	1.6
2-Butanone (Methyl Ethyl Ketone)	0.16	2.1 J	0.46	6.1 J
1,1,1-Trichloroethane	0.16	0.18	0.84	0.99
Cyclohexane	0.16	0.16	0.53	0.55
Benzene	0.16	4.4	0.50	14
1,2-Dichloroethane	0.16	13	0.63	54
Heptane	0.16	0.22	0.64	0.91
1,2-Dichloropropane	0.16	0.99	0.72	4.6

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-1-FR

Lab ID#: 0702505A-08A

cis-1,3-Dichloropropene	0.16	0.54	0.70	2.5
4-Methyl-2-pentanone	0.16	0.16	0.63	0.66
Toluene	0.16	41	0.58	160
trans-1,3-Dichloropropene	0.16	0.21	0.70	0.94
Ethyl Benzene	0.16	5.0	0.67	22
m,p-Xylene	0.16	5.2	0.67	22
o-Xylene	0.16	1.8	0.67	7.6
Styrene	0.16	3.0	0.66	13
Propylbenzene	0.16	0.19	0.76	0.92
4-Ethyltoluene	0.16	0.77	0.76	3.8
1,3,5-Trimethylbenzene	0.16	0.34	0.76	1.6
1,2,4-Trimethylbenzene	0.16	0.66	0.76	3.3

Client Sample ID: IA-1-FR

Lab ID#: 0702505A-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.031	0.048	0.17	0.26
Carbon Tetrachloride	0.031	0.095	0.20	0.60

Client Sample ID: IA-2-FR

Lab ID#: 0702505A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.18	0.75	0.86	3.7
Chloromethane	0.18	0.75	0.36	1.5
1,3-Butadiene	0.18	1.1	0.39	2.4
Freon 11	0.18	16	0.98	90
Ethanol	0.88	15 J	1.6	29 J
1,1-Dichloroethene	0.18	1.0	0.69	4.1
Acetone	0.88	7.8 B	2.1	19 B
2-Propanol	0.88	0.98	2.2	2.4
Methylene Chloride	0.35	0.88	1.2	3.0
Hexane	0.18	0.45	0.62	1.6
1,1-Dichloroethane	0.18	0.17 J	0.71	0.68 J
2-Butanone (Methyl Ethyl Ketone)	0.18	1.5	0.52	4.5
1,1,1-Trichloroethane	0.18	0.23	0.95	1.3
Benzene	0.18	4.2	0.56	13

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-2-FR

Lab ID#: 0702505A-09A

1,2-Dichloroethane	0.18	14	0.71	57
Heptane	0.18	0.24	0.72	0.96
1,2-Dichloropropane	0.18	1.0	0.81	4.9
cis-1,3-Dichloropropene	0.18	0.54	0.79	2.4
Toluene	0.18	42	0.66	160
trans-1,3-Dichloropropene	0.18	0.21	0.79	0.94
Ethyl Benzene	0.18	4.8	0.76	21
m,p-Xylene	0.18	5.3	0.76	23
o-Xylene	0.18	1.7	0.76	7.4
Styrene	0.18	3.2	0.74	14
Propylbenzene	0.18	0.19	0.86	0.94
4-Ethyltoluene	0.18	0.84	0.86	4.1
1,3,5-Trimethylbenzene	0.18	0.42	0.86	2.0
1,2,4-Trimethylbenzene	0.18	0.76	0.86	3.7

Client Sample ID: IA-2-FR

Lab ID#: 0702505A-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.035	0.073	0.19	0.39
Carbon Tetrachloride	0.035	0.10	0.22	0.63

Client Sample ID: IA-3-FR

Lab ID#: 0702505A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.16	0.84	0.78	4.2
Chloromethane	0.16	0.75	0.33	1.5
1,3-Butadiene	0.16	1.1	0.35	2.4
Freon 11	0.16	18	0.89	100
Ethanol	0.79	14 J	1.5	26 J
1,1-Dichloroethene	0.16	0.92	0.63	3.6
Acetone	0.79	8.8 B	1.9	21 B
Carbon Disulfide	0.79	0.88	2.5	2.7
Methylene Chloride	0.32	0.74	1.1	2.6
Hexane	0.16	0.45	0.56	1.6
2-Butanone (Methyl Ethyl Ketone)	0.16	2.6	0.46	7.6
1,1,1-Trichloroethane	0.16	0.17	0.86	0.93

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-3-FR

Lab ID#: 0702505A-10A

Cyclohexane	0.16	0.16	0.54	0.55
Benzene	0.16	4.3	0.50	14
1,2-Dichloroethane	0.16	14	0.64	57
Heptane	0.16	0.24	0.65	0.97
1,2-Dichloropropane	0.16	1.0	0.73	4.8
cis-1,3-Dichloropropene	0.16	0.48	0.72	2.2
Toluene	0.16	41	0.60	150
trans-1,3-Dichloropropene	0.16	0.23	0.72	1.1
Ethyl Benzene	0.16	4.7	0.69	20
m,p-Xylene	0.16	4.8	0.69	21
o-Xylene	0.16	1.6	0.69	6.8
Styrene	0.16	2.7	0.67	12
Propylbenzene	0.16	0.17	0.78	0.84
4-Ethyltoluene	0.16	0.70	0.78	3.4
1,3,5-Trimethylbenzene	0.16	0.28	0.78	1.4
1,2,4-Trimethylbenzene	0.16	0.66	0.78	3.3

Client Sample ID: IA-3-FR

Lab ID#: 0702505A-10B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.060	0.17	0.32
Carbon Tetrachloride	0.032	0.10	0.20	0.66

Client Sample ID: IA-4-FR

Lab ID#: 0702505A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.20	0.79	0.98	3.9
Chloromethane	0.20	0.67	0.41	1.4
1,3-Butadiene	0.20	0.90	0.44	2.0
Freon 11	0.20	15	1.1	85
Ethanol	0.99	12 J	1.9	23 J
1,1-Dichloroethene	0.20	0.78	0.78	3.1
Acetone	0.99	7.1 B	2.4	17 B
Methylene Chloride	0.40	0.84	1.4	2.9
Hexane	0.20	0.37	0.70	1.3
2-Butanone (Methyl Ethyl Ketone)	0.20	1.1	0.58	3.3

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-4-FR

Lab ID#: 0702505A-11A

1,1,1-Trichloroethane	0.20	0.19 J	1.1	1.0 J
Benzene	0.20	4.0	0.63	13
1,2-Dichloroethane	0.20	13	0.80	52
Heptane	0.20	0.31	0.81	1.2
1,2-Dichloropropane	0.20	0.94	0.92	4.3
cis-1,3-Dichloropropene	0.20	0.39	0.90	1.8
Toluene	0.20	38	0.75	140
Ethyl Benzene	0.20	4.0	0.86	17
m,p-Xylene	0.20	4.5	0.86	19
o-Xylene	0.20	1.5	0.86	6.4
Styrene	0.20	2.8	0.84	12
4-Ethyltoluene	0.20	0.72	0.97	3.5
1,3,5-Trimethylbenzene	0.20	0.39	0.97	1.9
1,2,4-Trimethylbenzene	0.20	0.63	0.97	3.1

Client Sample ID: IA-4-FR Duplicate

Lab ID#: 0702505A-11AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.26	0.69	1.3	3.4
Chloromethane	0.26	0.69	0.54	1.4
1,3-Butadiene	0.26	0.87	0.58	1.9
Freon 11	0.26	15	1.5	82
Ethanol	1.3	10 J	2.5	19 J
1,1-Dichloroethene	0.26	0.54	1.0	2.1
Acetone	1.3	7.2 B	3.1	17 B
Methylene Chloride	0.53	0.88	1.8	3.0
Hexane	0.26	0.35	0.93	1.2
2-Butanone (Methyl Ethyl Ketone)	0.26	1.3	0.78	3.9
Benzene	0.26	3.7	0.84	12
1,2-Dichloroethane	0.26	12	1.1	50
1,2-Dichloropropane	0.26	0.80	1.2	3.7
cis-1,3-Dichloropropene	0.26	0.46	1.2	2.1
Toluene	0.26	37	0.99	140
Ethyl Benzene	0.26	4.2	1.1	18
m,p-Xylene	0.26	4.3	1.1	19
o-Xylene	0.26	1.5	1.1	6.4
Styrene	0.26	2.5	1.1	11
4-Ethyltoluene	0.26	0.66	1.3	3.2

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-4-FR Duplicate

Lab ID#: 0702505A-11AA

1,3,5-Trimethylbenzene	0.26	0.38	1.3	1.9
1,2,4-Trimethylbenzene	0.26	0.57	1.3	2.8

Client Sample ID: IA-4-FR

Lab ID#: 0702505A-11B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Tetrachloride	0.053	0.087	0.33	0.55

Client Sample ID: IA-4-FR Duplicate

Lab ID#: 0702505A-11BB

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.039	0.050	0.21	0.27
Carbon Tetrachloride	0.039	0.088	0.25	0.56

Client Sample ID: IA-5-FR

Lab ID#: 0702505A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.18	0.87	0.86	4.3
Chloromethane	0.18	0.72	0.36	1.5
1,3-Butadiene	0.18	1.0	0.39	2.3
Freon 11	0.18	14	0.98	79
Ethanol	0.88	14 J	1.6	27 J
1,1-Dichloroethene	0.18	0.64	0.69	2.5
Acetone	0.88	8.9 B	2.1	21 B
Methylene Chloride	0.35	0.70	1.2	2.4
Hexane	0.18	0.41	0.62	1.4
2-Butanone (Methyl Ethyl Ketone)	0.18	1.6	0.52	4.6
1,1,1-Trichloroethane	0.18	0.18	0.95	0.98
Cyclohexane	0.18	0.22	0.60	0.76
Benzene	0.18	3.7	0.56	12
1,2-Dichloroethane	0.18	12	0.71	47
Heptane	0.18	1.2	0.72	4.7
1,2-Dichloropropane	0.18	0.84	0.81	3.9
cis-1,3-Dichloropropene	0.18	0.44	0.79	2.0

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-5-FR

Lab ID#: 0702505A-12A

Toluene	0.18	36	0.66	140
Ethyl Benzene	0.18	4.1	0.76	18
m,p-Xylene	0.18	5.5	0.76	24
o-Xylene	0.18	1.9	0.76	8.2
Styrene	0.18	2.7	0.74	12
Propylbenzene	0.18	0.20	0.86	0.97
4-Ethyltoluene	0.18	0.92	0.86	4.5
1,3,5-Trimethylbenzene	0.18	0.37	0.86	1.8
1,2,4-Trimethylbenzene	0.18	0.86	0.86	4.2

Client Sample ID: IA-5-FR Duplicate

Lab ID#: 0702505A-12B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.035	0.061	0.19	0.33
Carbon Tetrachloride	0.035	0.10	0.22	0.64

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-FR

Lab ID#: 0702505A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030727**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 3/8/07 05:22 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.17	0.61	0.83	3.0
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.45	0.35	0.93
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.17	Not Detected	0.65	Not Detected
Chloroethane	0.17	Not Detected	0.44	Not Detected
Freon 11	0.17	0.25	0.94	1.4
Ethanol	0.84	3.1 J	1.6	5.8 J
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	3.3	2.0	7.9
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	0.27 J	0.50	0.79 J
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Benzene	0.17	0.24	0.54	0.77
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.69	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	0.26	0.63	0.97
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-FR

Lab ID#: 0702505A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030727**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.68**	**Date of Analysis:**	**3/8/07 05:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	Not Detected	0.73	Not Detected
o-Xylene	0.17	Not Detected	0.73	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected
Naphthalene	0.84	Not Detected U J	4.4	Not Detected U J

J = Estimated value due to bias in the CCV.
UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-FR

Lab ID#: 0702505A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030727sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 3/8/07 05:22 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.092	0.21	0.58

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-1-FR

Lab ID#: 0702505A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030728**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.55**	**Date of Analysis: 3/8/07 06:40 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.16	0.73	0.77	3.6
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.75	0.32	1.6
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	1.2	0.34	2.7
Bromomethane	0.16	Not Detected	0.60	Not Detected
Chloroethane	0.16	Not Detected	0.41	Not Detected
Freon 11	0.16	18	0.87	100
Ethanol	0.78	16 J	1.5	30 J
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	0.84	0.61	3.4
Acetone	0.78	7.8	1.8	19
2-Propanol	0.78	1.2	1.9	2.9
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	1.0	1.1	3.5
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Hexane	0.16	0.44	0.55	1.6
1,1-Dichloroethane	0.16	Not Detected	0.63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	2.1 J	0.46	6.1 J
cis-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
1,1,1-Trichloroethane	0.16	0.18	0.84	0.99
Cyclohexane	0.16	0.16	0.53	0.55
Benzene	0.16	4.4	0.50	14
1,2-Dichloroethane	0.16	13	0.63	54
Heptane	0.16	0.22	0.64	0.91
1,2-Dichloropropane	0.16	0.99	0.72	4.6
1,4-Dioxane	0.16	Not Detected	0.56	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	0.54	0.70	2.5
4-Methyl-2-pentanone	0.16	0.16	0.63	0.66
Toluene	0.16	41	0.58	160
trans-1,3-Dichloropropene	0.16	0.21	0.70	0.94
1,1,2-Trichloroethane	0.16	Not Detected	0.84	Not Detected
Tetrachloroethene	0.16	Not Detected	1.0	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-1-FR

Lab ID#: 0702505A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030728**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.55**	**Date of Analysis:**	**3/8/07 06:40 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.71	Not Detected
Ethyl Benzene	0.16	5.0	0.67	22
m,p-Xylene	0.16	5.2	0.67	22
o-Xylene	0.16	1.8	0.67	7.6
Styrene	0.16	3.0	0.66	13
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.76	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	0.19	0.76	0.92
4-Ethyltoluene	0.16	0.77	0.76	3.8
1,3,5-Trimethylbenzene	0.16	0.34	0.76	1.6
1,2,4-Trimethylbenzene	0.16	0.66	0.76	3.3
1,3-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.80	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected
Naphthalene	0.78	Not Detected U J	4.1	Not Detected U J

J = Estimated value due to bias in the CCV.
UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	119	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-1-FR

Lab ID#: 0702505A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030728sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.55**	**Date of Analysis: 3/8/07 06:40 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.031	0.048	0.17	0.26
Carbon Tetrachloride	0.031	0.095	0.20	0.60

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	119	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-2-FR

Lab ID#: 0702505A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030906**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.75**	**Date of Analysis:**	**3/9/07 12:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.18	0.75	0.86	3.7
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.18	0.75	0.36	1.5
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	1.1	0.39	2.4
Bromomethane	0.18	Not Detected	0.68	Not Detected
Chloroethane	0.18	Not Detected	0.46	Not Detected
Freon 11	0.18	16	0.98	90
Ethanol	0.88	15 J	1.6	29 J
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	1.0	0.69	4.1
Acetone	0.88	7.8 B	2.1	19 B
2-Propanol	0.88	0.98	2.2	2.4
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	0.88	1.2	3.0
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Hexane	0.18	0.45	0.62	1.6
1,1-Dichloroethane	0.18	0.17 J	0.71	0.68 J
2-Butanone (Methyl Ethyl Ketone)	0.18	1.5	0.52	4.5
cis-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.18	0.23	0.95	1.3
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Benzene	0.18	4.2	0.56	13
1,2-Dichloroethane	0.18	14	0.71	57
Heptane	0.18	0.24	0.72	0.96
1,2-Dichloropropane	0.18	1.0	0.81	4.9
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	0.54	0.79	2.4
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	42	0.66	160
trans-1,3-Dichloropropene	0.18	0.21	0.79	0.94
1,1,2-Trichloroethane	0.18	Not Detected	0.95	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-2-FR

Lab ID#: 0702505A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030906**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.75**	**Date of Analysis:**	**3/9/07 12:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Ethyl Benzene	0.18	4.8	0.76	21
m,p-Xylene	0.18	5.3	0.76	23
o-Xylene	0.18	1.7	0.76	7.4
Styrene	0.18	3.2	0.74	14
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	0.19	0.86	0.94
4-Ethyltoluene	0.18	0.84	0.86	4.1
1,3,5-Trimethylbenzene	0.18	0.42	0.86	2.0
1,2,4-Trimethylbenzene	0.18	0.76	0.86	3.7
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected
Naphthalene	0.88	Not Detected	4.6	Not Detected

J = Estimated value due to bias in the CCV.
B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.
J = Estimated value.

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	118	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-2-FR

Lab ID#: 0702505A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030906sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.75**	**Date of Analysis: 3/9/07 12:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.035	0.073	0.19	0.39
Carbon Tetrachloride	0.035	0.10	0.22	0.63

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	120	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-FR

Lab ID#: 0702505A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030907**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.58**	**Date of Analysis:**	**3/9/07 01:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.16	0.84	0.78	4.2
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.75	0.33	1.5
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	1.1	0.35	2.4
Bromomethane	0.16	Not Detected	0.61	Not Detected
Chloroethane	0.16	Not Detected	0.42	Not Detected
Freon 11	0.16	18	0.89	100
Ethanol	0.79	14 J	1.5	26 J
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	0.92	0.63	3.6
Acetone	0.79	8.8 B	1.9	21 B
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	0.88	2.5	2.7
Methylene Chloride	0.32	0.74	1.1	2.6
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Hexane	0.16	0.45	0.56	1.6
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	2.6	0.46	7.6
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	0.17	0.86	0.93
Cyclohexane	0.16	0.16	0.54	0.55
Benzene	0.16	4.3	0.50	14
1,2-Dichloroethane	0.16	14	0.64	57
Heptane	0.16	0.24	0.65	0.97
1,2-Dichloropropane	0.16	1.0	0.73	4.8
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	0.48	0.72	2.2
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	41	0.60	150
trans-1,3-Dichloropropene	0.16	0.23	0.72	1.1
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-FR

Lab ID#: 0702505A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030907**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.58**	**Date of Analysis: 3/9/07 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	4.7	0.69	20
m,p-Xylene	0.16	4.8	0.69	21
o-Xylene	0.16	1.6	0.69	6.8
Styrene	0.16	2.7	0.67	12
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	0.17	0.78	0.84
4-Ethyltoluene	0.16	0.70	0.78	3.4
1,3,5-Trimethylbenzene	0.16	0.28	0.78	1.4
1,2,4-Trimethylbenzene	0.16	0.66	0.78	3.3
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected
Naphthalene	0.79	Not Detected	4.1	Not Detected

J = Estimated value due to bias in the CCV.

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	122	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-FR

Lab ID#: 0702505A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030907sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.58**	**Date of Analysis: 3/9/07 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.060	0.17	0.32
Carbon Tetrachloride	0.032	0.10	0.20	0.66

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	122	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-FR

Lab ID#: 0702505A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030912**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.98**	**Date of Analysis: 3/9/07 05:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.20	0.79	0.98	3.9
Freon 114	0.20	Not Detected	1.4	Not Detected
Chloromethane	0.20	0.67	0.41	1.4
Vinyl Chloride	0.20	Not Detected	0.51	Not Detected
1,3-Butadiene	0.20	0.90	0.44	2.0
Bromomethane	0.20	Not Detected	0.77	Not Detected
Chloroethane	0.20	Not Detected	0.52	Not Detected
Freon 11	0.20	15	1.1	85
Ethanol	0.99	12 J	1.9	23 J
Freon 113	0.20	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.20	0.78	0.78	3.1
Acetone	0.99	7.1 B	2.4	17 B
2-Propanol	0.99	Not Detected	2.4	Not Detected
Carbon Disulfide	0.99	Not Detected	3.1	Not Detected
Methylene Chloride	0.40	0.84	1.4	2.9
Methyl tert-butyl ether	0.20	Not Detected	0.71	Not Detected
trans-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Hexane	0.20	0.37	0.70	1.3
1,1-Dichloroethane	0.20	Not Detected	0.80	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	1.1	0.58	3.3
cis-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Tetrahydrofuran	0.99	Not Detected	2.9	Not Detected
Chloroform	0.20	Not Detected	0.97	Not Detected
1,1,1-Trichloroethane	0.20	0.19 J	1.1	1.0 J
Cyclohexane	0.20	Not Detected	0.68	Not Detected
Benzene	0.20	4.0	0.63	13
1,2-Dichloroethane	0.20	13	0.80	52
Heptane	0.20	0.31	0.81	1.2
1,2-Dichloropropane	0.20	0.94	0.92	4.3
1,4-Dioxane	0.20	Not Detected	0.71	Not Detected
Bromodichloromethane	0.20	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.20	0.39	0.90	1.8
4-Methyl-2-pentanone	0.20	Not Detected	0.81	Not Detected
Toluene	0.20	38	0.75	140
trans-1,3-Dichloropropene	0.20	Not Detected	0.90	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	Not Detected	1.3	Not Detected
2-Hexanone	0.99	Not Detected	4.0	Not Detected
Dibromochloromethane	0.20	Not Detected	1.7	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-FR

Lab ID#: 0702505A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030912**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.98**	**Date of Analysis:**	**3/9/07 05:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.20	Not Detected	1.5	Not Detected
Chlorobenzene	0.20	Not Detected	0.91	Not Detected
Ethyl Benzene	0.20	4.0	0.86	17
m,p-Xylene	0.20	4.5	0.86	19
o-Xylene	0.20	1.5	0.86	6.4
Styrene	0.20	2.8	0.84	12
Bromoform	0.20	Not Detected	2.0	Not Detected
Cumene	0.20	Not Detected	0.97	Not Detected
1,1,2,2-Tetrachloroethane	0.20	Not Detected	1.4	Not Detected
Propylbenzene	0.20	Not Detected	0.97	Not Detected
4-Ethyltoluene	0.20	0.72	0.97	3.5
1,3,5-Trimethylbenzene	0.20	0.39	0.97	1.9
1,2,4-Trimethylbenzene	0.20	0.63	0.97	3.1
1,3-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,4-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
alpha-Chlorotoluene	0.20	Not Detected	1.0	Not Detected
1,2-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,2,4-Trichlorobenzene	0.99	Not Detected	7.3	Not Detected
Hexachlorobutadiene	0.99	Not Detected	10	Not Detected
Naphthalene	0.99	Not Detected	5.2	Not Detected

J = Estimated value due to bias in the CCV.
B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.
J = Estimated value.

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	121	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-FR Duplicate

Lab ID#: 0702505A-11AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030911**	**Date of Collection: 2/20/07**	
Dil. Factor:	**2.63**	**Date of Analysis: 3/9/07 04:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.26	0.69	1.3	3.4
Freon 114	0.26	Not Detected	1.8	Not Detected
Chloromethane	0.26	0.69	0.54	1.4
Vinyl Chloride	0.26	Not Detected	0.67	Not Detected
1,3-Butadiene	0.26	0.87	0.58	1.9
Bromomethane	0.26	Not Detected	1.0	Not Detected
Chloroethane	0.26	Not Detected	0.69	Not Detected
Freon 11	0.26	15	1.5	82
Ethanol	1.3	10 J	2.5	19 J
Freon 113	0.26	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.26	0.54	1.0	2.1
Acetone	1.3	7.2 B	3.1	17 B
2-Propanol	1.3	Not Detected	3.2	Not Detected
Carbon Disulfide	1.3	Not Detected	4.1	Not Detected
Methylene Chloride	0.53	0.88	1.8	3.0
Methyl tert-butyl ether	0.26	Not Detected	0.95	Not Detected
trans-1,2-Dichloroethene	0.26	Not Detected	1.0	Not Detected
Hexane	0.26	0.35	0.93	1.2
1,1-Dichloroethane	0.26	Not Detected	1.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.26	1.3	0.78	3.9
cis-1,2-Dichloroethene	0.26	Not Detected	1.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	0.26	Not Detected	1.3	Not Detected
1,1,1-Trichloroethane	0.26	Not Detected	1.4	Not Detected
Cyclohexane	0.26	Not Detected	0.90	Not Detected
Benzene	0.26	3.7	0.84	12
1,2-Dichloroethane	0.26	12	1.1	50
Heptane	0.26	Not Detected	1.1	Not Detected
1,2-Dichloropropane	0.26	0.80	1.2	3.7
1,4-Dioxane	0.26	Not Detected	0.95	Not Detected
Bromodichloromethane	0.26	Not Detected	1.8	Not Detected
cis-1,3-Dichloropropene	0.26	0.46	1.2	2.1
4-Methyl-2-pentanone	0.26	Not Detected	1.1	Not Detected
Toluene	0.26	37	0.99	140
trans-1,3-Dichloropropene	0.26	Not Detected	1.2	Not Detected
1,1,2-Trichloroethane	0.26	Not Detected	1.4	Not Detected
Tetrachloroethene	0.26	Not Detected	1.8	Not Detected
2-Hexanone	1.3	Not Detected	5.4	Not Detected
Dibromochloromethane	0.26	Not Detected	2.2	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-FR Duplicate

Lab ID#: 0702505A-11AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030911**	**Date of Collection: 2/20/07**	
Dil. Factor:	**2.63**	**Date of Analysis: 3/9/07 04:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.26	Not Detected	2.0	Not Detected
Chlorobenzene	0.26	Not Detected	1.2	Not Detected
Ethyl Benzene	0.26	4.2	1.1	18
m,p-Xylene	0.26	4.3	1.1	19
o-Xylene	0.26	1.5	1.1	6.4
Styrene	0.26	2.5	1.1	11
Bromoform	0.26	Not Detected	2.7	Not Detected
Cumene	0.26	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.26	Not Detected	1.8	Not Detected
Propylbenzene	0.26	Not Detected	1.3	Not Detected
4-Ethyltoluene	0.26	0.66	1.3	3.2
1,3,5-Trimethylbenzene	0.26	0.38	1.3	1.9
1,2,4-Trimethylbenzene	0.26	0.57	1.3	2.8
1,3-Dichlorobenzene	0.26	Not Detected	1.6	Not Detected
1,4-Dichlorobenzene	0.26	Not Detected	1.6	Not Detected
alpha-Chlorotoluene	0.26	Not Detected	1.4	Not Detected
1,2-Dichlorobenzene	0.26	Not Detected	1.6	Not Detected
1,2,4-Trichlorobenzene	1.3	Not Detected	9.8	Not Detected
Hexachlorobutadiene	1.3	Not Detected	14	Not Detected
Naphthalene	1.3	Not Detected	6.9	Not Detected

J = Estimated value due to bias in the CCV.

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	123	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-FR

Lab ID#: 0702505A-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030911sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**2.63**	**Date of Analysis: 3/9/07 04:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.053	Not Detected	0.28	Not Detected
Carbon Tetrachloride	0.053	0.087	0.33	0.55

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	118	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-FR Duplicate

Lab ID#: 0702505A-11BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030912sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.97**	**Date of Analysis: 3/9/07 05:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.039	0.050	0.21	0.27
Carbon Tetrachloride	0.039	0.088	0.25	0.56

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	122	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-5-FR

Lab ID#: 0702505A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030908**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.75**	**Date of Analysis: 3/9/07 02:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.18	0.87	0.86	4.3
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.18	0.72	0.36	1.5
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	1.0	0.39	2.3
Bromomethane	0.18	Not Detected	0.68	Not Detected
Chloroethane	0.18	Not Detected	0.46	Not Detected
Freon 11	0.18	14	0.98	79
Ethanol	0.88	14 J	1.6	27 J
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	0.64	0.69	2.5
Acetone	0.88	8.9 B	2.1	21 B
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	0.70	1.2	2.4
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Hexane	0.18	0.41	0.62	1.4
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.18	1.6	0.52	4.6
cis-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.18	0.18	0.95	0.98
Cyclohexane	0.18	0.22	0.60	0.76
Benzene	0.18	3.7	0.56	12
1,2-Dichloroethane	0.18	12	0.71	47
Heptane	0.18	1.2	0.72	4.7
1,2-Dichloropropane	0.18	0.84	0.81	3.9
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	0.44	0.79	2.0
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	36	0.66	140
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.95	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-5-FR

Lab ID#: 0702505A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030908**	**Date of Collection:**	**2/20/07**
Dil. Factor:	**1.75**	**Date of Analysis:**	**3/9/07 02:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Ethyl Benzene	0.18	4.1	0.76	18
m,p-Xylene	0.18	5.5	0.76	24
o-Xylene	0.18	1.9	0.76	8.2
Styrene	0.18	2.7	0.74	12
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	0.20	0.86	0.97
4-Ethyltoluene	0.18	0.92	0.86	4.5
1,3,5-Trimethylbenzene	0.18	0.37	0.86	1.8
1,2,4-Trimethylbenzene	0.18	0.86	0.86	4.2
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected
Naphthalene	0.88	Not Detected	4.6	Not Detected

J = Estimated value due to bias in the CCV.
B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.
Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	123	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-5-FR Duplicate

Lab ID#: 0702505A-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030908sim**	**Date of Collection: 2/20/07**	
Dil. Factor:	**1.75**	**Date of Analysis: 3/9/07 02:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.035	0.061	0.19	0.33
Carbon Tetrachloride	0.035	0.10	0.22	0.64

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	120	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 02:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected U J	0.94	Not Detected U J
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected U J	0.29	Not Detected U J
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 02:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
Naphthalene	0.50	Not Detected U J	2.6	Not Detected U J

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505A-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030706sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 02:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505A-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 12:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected U J	0.94	Not Detected U J
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.56	1.2	1.3
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505A-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 12:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702505A-14B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030905sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 12:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505A-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 11:14 AM**	

Compound	%Recovery
Freon 12	122
Freon 114	108
Chloromethane	92
Vinyl Chloride	98
1,3-Butadiene	98
Bromomethane	103
Chloroethane	97
Freon 11	104
Ethanol	55 Q
Freon 113	101
1,1-Dichloroethene	79
Acetone	89
2-Propanol	78
Carbon Disulfide	94
Methylene Chloride	94
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	92
Hexane	89
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	54 Q
cis-1,2-Dichloroethene	80
Tetrahydrofuran	76
Chloroform	101
1,1,1-Trichloroethane	110
Cyclohexane	80
Benzene	101
1,2-Dichloroethane	121
Heptane	91
1,2-Dichloropropane	97
1,4-Dioxane	76
Bromodichloromethane	102
cis-1,3-Dichloropropene	85
4-Methyl-2-pentanone	83
Toluene	95
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	103
Tetrachloroethene	107
2-Hexanone	72
Dibromochloromethane	102

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505A-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 11:14 AM**	

Compound	%Recovery
1,2-Dibromoethane (EDB)	123
Chlorobenzene	104
Ethyl Benzene	103
m,p-Xylene	106
o-Xylene	100
Styrene	107
Bromoform	106
Cumene	81
1,1,2,2-Tetrachloroethane	110
Propylbenzene	85
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	118
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	114
Naphthalene	64 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	108	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505A-15B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030702sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 11:14 AM**	

Compound	%Recovery
Trichloroethene	87
Carbon Tetrachloride	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: CCV

Lab ID#: 0702505A-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 08:36 AM**	

Compound	%Recovery
Freon 12	126
Freon 114	111
Chloromethane	101
Vinyl Chloride	100
1,3-Butadiene	101
Bromomethane	96
Chloroethane	103
Freon 11	121
Ethanol	54 Q
Freon 113	93
1,1-Dichloroethene	83
Acetone	89
2-Propanol	82
Carbon Disulfide	92
Methylene Chloride	88
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	91
Hexane	93
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	76
cis-1,2-Dichloroethene	77
Tetrahydrofuran	81
Chloroform	96
1,1,1-Trichloroethane	110
Cyclohexane	78
Benzene	96
1,2-Dichloroethane	122
Heptane	102
1,2-Dichloropropane	99
1,4-Dioxane	71
Bromodichloromethane	100
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	87
Toluene	91
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	99
Tetrachloroethene	106
2-Hexanone	76
Dibromochloromethane	102

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505A-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 08:36 AM**	

Compound	%Recovery
1,2-Dibromoethane (EDB)	133 Q
Chlorobenzene	101
Ethyl Benzene	99
m,p-Xylene	105
o-Xylene	100
Styrene	105
Bromoform	101
Cumene	83
1,1,2,2-Tetrachloroethane	102
Propylbenzene	84
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	82
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	109
Naphthalene	85

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	112	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702505A-16B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030902sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 08:36 AM**	

Compound	%Recovery
Trichloroethene	87
Carbon Tetrachloride	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505A-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 01:02 PM**	

Compound	%Recovery
Freon 12	124
Freon 114	122
Chloromethane	91
Vinyl Chloride	104
1,3-Butadiene	103
Bromomethane	117
Chloroethane	108
Freon 11	108
Ethanol	69
Freon 113	118
1,1-Dichloroethene	93
Acetone	98
2-Propanol	74
Carbon Disulfide	99
Methylene Chloride	98
Methyl tert-butyl ether	120
trans-1,2-Dichloroethene	100
Hexane	90
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	85
Tetrahydrofuran	79
Chloroform	104
1,1,1-Trichloroethane	118
Cyclohexane	89
Benzene	99
1,2-Dichloroethane	115
Heptane	93
1,2-Dichloropropane	101
1,4-Dioxane	76
Bromodichloromethane	99
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	84
Toluene	100
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	100
Tetrachloroethene	105
2-Hexanone	74
Dibromochloromethane	103

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505A-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 01:02 PM**	

Compound	%Recovery
1,2-Dibromoethane (EDB)	135 Q
Chlorobenzene	102
Ethyl Benzene	98
m,p-Xylene	104
o-Xylene	102
Styrene	103
Bromoform	108
Cumene	84
1,1,2,2-Tetrachloroethane	105
Propylbenzene	84
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	80
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	66 Q
Hexachlorobutadiene	76
Naphthalene	53 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505A-17B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030704sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/07 01:02 PM**	

Compound	%Recovery
Trichloroethene	87
Carbon Tetrachloride	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505A-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 09:29 AM**	

Compound	%Recovery
Freon 12	119
Freon 114	109
Chloromethane	106
Vinyl Chloride	100
1,3-Butadiene	94
Bromomethane	97
Chloroethane	101
Freon 11	104
Ethanol	74
Freon 113	103
1,1-Dichloroethene	96
Acetone	104
2-Propanol	86
Carbon Disulfide	94
Methylene Chloride	99
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	101
Hexane	95
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	85
Tetrahydrofuran	86
Chloroform	101
1,1,1-Trichloroethane	110
Cyclohexane	80
Benzene	96
1,2-Dichloroethane	120
Heptane	102
1,2-Dichloropropane	100
1,4-Dioxane	75
Bromodichloromethane	102
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	92
Toluene	99
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	104
Tetrachloroethene	108
2-Hexanone	86
Dibromochloromethane	108

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505A-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 09:29 AM**	

Compound	%Recovery
1,2-Dibromoethane (EDB)	142 Q
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	106
o-Xylene	105
Styrene	106
Bromoform	109
Cumene	89
1,1,2,2-Tetrachloroethane	104
Propylbenzene	86
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	104
Naphthalene	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702505A-18B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**y030903sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/07 09:29 AM**	

Compound	%Recovery
Trichloroethene	88
Carbon Tetrachloride	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Contact Person: Mark Distler
Company: O'Brien & Gere Email: distlema@obg.com
Address: 5000 Brittonfield Pkwy City: E. Syracuse State: NY Zip: 13057
Phone: 315-437-6100 (315-6) Fax: 315-463-7554
Collected by: (Signature) Clif J. Fil

Project Info:
P.O. #: –
Project #: 40162
Project Name: Farrell Rd.

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: KB
Date: 2/28/07
Pressurization Gas: N2 He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	AA - FR	14870	2/20/07	1025	Modified TO-15 Hi/Low (LL Full List) w/ TCE & Sim	30"	5.5"	6.0"Hg	50psi
02A	SS - 1 - FR	41164		1035	Modified TO-15 LL	>30"	6"	6.0"Hg	
03A	SS - 2 - FR	12086		1038		29"	7"	6.0"Hg	
04A	SS - 3 - FR	29179		1040		30"	7"	6.0"Hg	
05A	SS - 4 - FR	33663		1043		30"	6"	6.0"Hg	
06A	SS - 5 - FR	05362		1046		30"	5.5"	5.0"Hg	
07A	SS - DUP - FR	34489		1038	↓	29"	7"	7.0"Hg	
	IA - 1 - FR	24228		1035	Modified TO-15 Hi/Low (LL Full List) w/ TCE & Sim	>30"	6.5"	4.0"Hg	
	IA - 2 - FR	33679		1038		29"	7"	7.0"Hg	
	IA - 3 - FR	34724	↓	1040	↓	>30"	7"	4.5"Hg	↓

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Clif J. Fil	2/22/07 1500	Monica Green ATL	2/23/07 950

Notes: FedEx Tracking: 7384 0654 0569
" " 0570
" " 0580
" " 0591

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
	FedEx	7384 0654 0580	NA	Good	Yes / No / None	07025058

Form 1293 rev.10

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Contact Person: Mark Distler
Company: O'Brien & Gere Email: distlema@obg.com
Address: 5000 Brittonfield Pkwy City: E Syracuse State: NY Zip: 130
Phone: 315-437-6100 Fax: 315-463-7554
Collected by: (Signature) [signature]

Project Info:
P.O. #: —
Project #: 40162
Project Name: Farrell Rd

Turn Around Time:
☑ Normal
☐ Rush
specify

Call Dist Only:
Pressurized by: [illegible]
Date: 2/18/07
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final
11A	IA-4-ER	2423O	2/20/07	1043	modified TO-15 Hi Low (LL Full List) w/TCE & CIM	30"	6"	-4.5"	-5.0"
12A	IA-5-ER	3142S	↓	1046	↓	29"	7.5"	-7.0"	-5.0"

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	Notes:
[signature]	2/22/07 1500	Monica Green ATL	2/23/07 950	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
	FedEx	7384 0654 0580	NA	Good	(Yes) No None	0702505A

Form 1233 rev.18

Air Toxics LTD.
www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F021229; 6L#14870 w/ 11.5ml:1
Date: 2/12/2007 22:51:27

Peak #	Quantification	CAS	Type	Conc.	Units
	Propylene		Not Found	0.000	ppbv
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 11		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	Acrolein		Not Found	0.000	ppbv
	2-Propanol		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	2-Methylpentane		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Acrylonitrile		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	2-Butanone (Methyl Ethyl Ketone)		Not Found	0.000	ppbv
	Ethyl Acetate		Not Found	0.000	ppbv
	Chloroform		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	tert-Amyl Methyl ether		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv

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Media Certification Report

Canister Number: F021229; 6L#14870 w/ 11.5ml:1
Date: 2/12/2007 22:51:27

Peak #	Quantification	CAS	Type	Conc.	Units
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	Toluene		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	sec-Butylbenzene		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	Naphthalene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
3	1,1-Difluoroethane	0-00-0	Quantified	0.01145	ppbv
4	Chloromethane	146352-02-5	Quantified	0.01206	ppbv
9	Ethanol	992-94-9	Quantified	0.1230	ppbv
10	Carbon Disulfide	923-32-0	Quantified	0.02241	ppbv
11	Acetone	29427-58-5	Quantified	0.1646	ppbv
15	Methylene Chloride	75-09-2	Quantified	0.02072	ppbv
19	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
20	Tetrahydrofuran	150832-18-1	Quantified	0.08580	ppbv

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Media Certification Report

Canister Number: F021229; 6L#14870 w/ 11.5ml:1
Date: 2/12/2007 22:51:27

Peak #	Quantification	CAS	Type	Conc.	Units
21	Benzene	0-00-0	Quantified	0.01629	ppbv
22	1,2-Dichloroethane-d4	930-29-0	Quantified	5.549	ppbv
23	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv
26	Dibromomethane	0-00-0	Quantified	0.000	ppbv
28	Toluene-D8	2037-26-5	Quantified	5.712	ppbv
32	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
33	Bromofluorobenzene	1073-06-9	Quantified	4.893	ppbv

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Media Certification Report

Canister Number: F021020 ; 6L #24228 w/8hr FC:1
Date: 2/10/2007 18:38:33

Peak #	Quantification	CAS	Type	Conc.	Units
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Chloromethane		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 11		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	2-Methylpentane		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Acrylonitrile		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	2-Butanone (Methyl Ethyl Ketone)		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv

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Media Certification Report

Canister Number: F021020 ; 6L #24228 w/8hr FC:1
Date: 2/10/2007 18:38:33

Peak #	Quantification	CAS	Type	Conc.	Units
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	sec-Butylbenzene		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	Naphthalene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
3	Propylene	0-00-0	Quantified	0.04335	ppbv
5	1,1-Difluoroethane	350680-27-2	Quantified	0.06999	ppbv
9	Ethanol	0-00-0	Quantified	0.04722	ppbv
10	Acrolein	55255-50-0	Quantified	0.000	ppbv
12	Carbon Disulfide	55255-50-0	Quantified	0.02412	ppbv
13	Acetone	5891-21-4	Quantified	0.1852	ppbv
14	2-Propanol	0-00-0	Quantified	0.01997	ppbv
16	Methylene Chloride	21133-52-8	Quantified	0.01067	ppbv
24	Ethyl Acetate	29427-58-5	Quantified	0.01512	ppbv
27	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
27	Chloroform	74-97-5	Quantified	0.001846	ppbv
29	Tetrahydrofuran	150832-18-1	Quantified	0.07412	ppbv
31	Benzene	71-43-2	Quantified	0.03039	ppbv
32	1,2-Dichloroethane-d4	121505-32-6	Quantified	4.908	ppbv

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Media Certification Report

Canister Number: F021020 ; 6L #24228 w/8hr FC:1
Date: 2/10/2007 18:38:33

Peak #	Quantification	CAS	Type	Conc.	Units
32	tert-Amyl Methyl ether	121505-32-6	Quantified	0.01298	ppbv
34	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv
36	Dibromomethane	571-31-3	Quantified	0.000	ppbv
38	Toluene-D8	2037-26-5	Quantified	5.000	ppbv
39	Toluene	317840-42-9	Quantified	0.004732	ppbv
47	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
49	Bromofluorobenzene	460-00-4	Quantified	4.879	ppbv

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Media Certification Report

Canister Number: F021019 ; 6L #24230 w/8hr FC:1
Date: 2/10/2007 18:15:36

Peak #	Quantification	CAS	Type	Conc.	Units
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Chloromethane		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 11		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Acrylonitrile		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	2-Butanone (Methyl Ethyl Ketone)		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	tert-Amyl Methyl ether		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv

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Media Certification Report

Canister Number: F021019 ; 6L #24230 w/8hr FC:1
Date: 2/10/2007 18:15:36

Peak #	Quantification	CAS	Type	Conc.	Units
	Dibromochloromethane		Not Found	0.000	ppbv
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
1	Propylene	0-00-0	Quantified	0.04353	ppbv
3	1,1-Difluoroethane	75-37-6	Quantified	0.05530	ppbv
6	Ethanol	0-00-0	Quantified	0.06577	ppbv
7	Acrolein	55255-50-0	Quantified	0.000	ppbv
9	Carbon Disulfide	75-15-0	Quantified	0.02802	ppbv
10	Acetone	67-64-1	Quantified	0.2473	ppbv
11	2-Propanol	3463-93-2	Quantified	0.04838	ppbv
11	2-Methylpentane	3463-93-2	Quantified	0.006250	ppbv
13	Methylene Chloride	21133-52-8	Quantified	0.01481	ppbv
17	Vinyl Acetate	2713-09-9	Quantified	0.007349	ppbv
24	Ethyl Acetate	2348-17-6	Quantified	0.01917	ppbv
27	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
27	Chloroform	74-97-5	Quantified	0.002047	ppbv
28	Tetrahydrofuran	56847-05-3	Quantified	0.07685	ppbv
29	Benzene	71-43-2	Quantified	0.02865	ppbv
30	1,2-Dichloroethane-d4	121505-32-6	Quantified	4.942	ppbv
32	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv
36	Dibromomethane	571-31-3	Quantified	0.000	ppbv
38	Toluene-D8	2037-26-5	Quantified	5.089	ppbv

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Media Certification Report

Canister Number: F021019 ; 6L #24230 w/8hr FC:1
Date: 2/10/2007 18:15:36

Peak #	Quantification	CAS	Type	Conc.	Units
39	Toluene	103438-94-4	Quantified	0.009932	ppbv
45	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
46	m,p-Xylene	0-00-0	Quantified	0.02095	ppbv
48	Bromofluorobenzene	1073-06-9	Quantified	4.932	ppbv
50	1,2,4-Trimethylbenzene	0-00-0	Quantified	0.01496	ppbv
51	sec-Butylbenzene	0-00-0	Quantified	0.004343	ppbv
57	Naphthalene	0-00-0	Quantified	0.007604	ppbv

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Media Certification Report

Canister Number: F021021 ; 6L #31425 w/8hr FC:1
Date: 2/10/2007 19:01:17

Peak #	Quantification	CAS	Type	Conc.	Units
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	2-Methylpentane		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	2-Butanone (Methyl Ethyl Ketone)		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv

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Media Certification Report

Canister Number: F021021 ; 6L #31425 w/8hr FC:1
Date: 2/10/2007 19:01:17

Peak #	Quantification	CAS	Type	Conc.	Units
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	sec-Butylbenzene		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	Naphthalene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
1	Propylene	4752-56-1	Quantified	0.05908	ppbv
3	1,1-Difluoroethane	75-37-6	Quantified	0.02499	ppbv
4	Chloromethane	146352-02-5	Quantified	0.01900	ppbv
6	Freon 11	18100-65-7	Quantified	0.01102	ppbv
7	Ethanol	0-00-0	Quantified	0.1430	ppbv
8	Acrolein	55255-50-0	Quantified	0.000	ppbv
10	Carbon Disulfide	75-15-0	Quantified	0.04167	ppbv
12	Acetone	67-64-1	Quantified	0.2212	ppbv
13	2-Propanol	177941-61-6	Quantified	0.05970	ppbv
18	Methylene Chloride	75-09-2	Quantified	0.06310	ppbv
19	Acrylonitrile	19892-19-4	Quantified	0.007323	ppbv
20	Hexane	56847-05-3	Quantified	0.01589	ppbv
26	Ethyl Acetate	19634-37-8	Quantified	0.02512	ppbv
28	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
28	Chloroform	74-97-5	Quantified	0.002079	ppbv
29	Tetrahydrofuran	0-00-0	Quantified	0.05451	ppbv
30	Benzene	0-00-0	Quantified	0.02379	ppbv
31	1,2-Dichloroethane-d4	930-29-0	Quantified	5.193	ppbv
31	tert-Amyl Methyl ether	930-29-0	Quantified	0.01313	ppbv

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Media Certification Report

Canister Number: F021021 ; 6L #31425 w/8hr FC:1
Date: 2/10/2007 19:01:17

Peak #	Quantification	CAS	Type	Conc.	Units
34	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv
37	Dibromomethane	571-31-3	Quantified	0.000	ppbv
38	Toluene-D8	2037-26-5	Quantified	5.297	ppbv
39	Toluene	103438-94-4	Quantified	0.003041	ppbv
43	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
44	Bromofluorobenzene	460-00-4	Quantified	5.081	ppbv
45	Indene	41670-48-8	Quantified	0.01192	ppbv

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Media Certification Report

Canister Number: F021023 ; 6L #33679 w/8hr FC:1
Date: 2/10/2007 19:46:58

Peak #	Quantification	CAS	Type	Conc.	Units
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	2-Methylpentane		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv

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Media Certification Report

Canister Number: F021023 ; 6L #33679 w/8hr FC:1
Date: 2/10/2007 19:46:58

Peak #	Quantification	CAS	Type	Conc.	Units
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	sec-Butylbenzene		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	Naphthalene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
1	Propylene	0-00-0	Quantified	0.04515	ppbv
4	1,1-Difluoroethane	350680-27-2	Quantified	0.07332	ppbv
5	Chloromethane	21133-52-8	Quantified	0.01010	ppbv
10	Freon 11	24667-21-8	Quantified	0.004060	ppbv
12	Ethanol	152434-78-1	Quantified	0.1142	ppbv
13	Acrolein	55255-50-0	Quantified	0.000	ppbv
15	Carbon Disulfide	75-15-0	Quantified	0.03360	ppbv
16	Acetone	6156-78-1	Quantified	0.2094	ppbv
17	2-Propanol	0-00-0	Quantified	0.03306	ppbv
19	Methylene Chloride	21133-52-8	Quantified	0.01525	ppbv
20	Acrylonitrile	55255-50-0	Quantified	0.007539	ppbv
29	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Quantified	0.03394	ppbv
29	Ethyl Acetate	0-00-0	Quantified	0.03369	ppbv
32	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
32	Chloroform	74-97-5	Quantified	0.001202	ppbv
33	Tetrahydrofuran	74792-92-0	Quantified	0.07406	ppbv
35	Benzene	71-43-2	Quantified	0.02447	ppbv
36	1,2-Dichloroethane-d4	930-29-0	Quantified	4.895	ppbv
36	tert-Amyl Methyl ether	930-29-0	Quantified	0.01139	ppbv
38	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv

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Media Certification Report

Canister Number: F021023 ; 6L #33679 w/8hr FC:1
Date: 2/10/2007 19:46:58

Peak #	Quantification	CAS	Type	Conc.	Units
41	Dibromomethane	0-00-0	Quantified	0.000	ppbv
42	Bromodichloromethane	55255-50-0	Quantified	0.005869	ppbv
49	Toluene-D8	2037-26-5	Quantified	5.029	ppbv
50	Toluene	0-00-0	Quantified	0.01300	ppbv
61	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
65	Bromofluorobenzene	1073-06-9	Quantified	4.723	ppbv
66	1,1,2,2-Tetrachloroethane	39516-65-9	Quantified	0.007704	ppbv

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Media Certification Report

Canister Number: F021230; 6L#34724 w/ 11.5ml:1
Date: 2/12/2007 23:14:15

Peak #	Quantification	CAS	Type	Conc.	Units
	Propylene		Not Found	0.000	ppbv
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Chloromethane		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 11		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	2-Methylpentane		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	Chloroform		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	tert-Amyl Methyl ether		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	Toluene		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv

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Media Certification Report

Canister Number: F021230; 6L#34724 w/ 11.5ml:1
Date: 2/12/2007 23:14:15

Peak #	Quantification	CAS	Type	Conc.	Units
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	sec-Butylbenzene		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	Naphthalene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
3	1,1-Difluoroethane	350680-27-2	Quantified	0.1171	ppbv
6	Ethanol	0-00-0	Quantified	0.1290	ppbv
7	Acrolein	55255-50-0	Quantified	0.000	ppbv
9	Carbon Disulfide	75-15-0	Quantified	0.05408	ppbv
10	Acetone	55255-50-0	Quantified	0.2131	ppbv
11	2-Propanol	0-00-0	Quantified	0.02258	ppbv
13	Methylene Chloride	75-09-2	Quantified	0.02161	ppbv
17	Acrylonitrile	509-64-8	Quantified	0.01195	ppbv
22	2-Butanone (Methyl Ethyl Ketone)	78-93-3	Quantified	0.03458	ppbv
22	Ethyl Acetate	78-93-3	Quantified	0.03276	ppbv
23	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
24	Tetrahydrofuran	56847-05-3	Quantified	0.06946	ppbv

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Media Certification Report

Canister Number: F021230; 6L#34724 w/ 11.5ml:1
Date: 2/12/2007 23:14:15

Peak #	Quantification	CAS	Type	Conc.	Units
25	Benzene	27725-15-1	Quantified	0.02218	ppbv
26	1,2-Dichloroethane-d4	930-29-0	Quantified	5.464	ppbv
28	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv
30	Dibromomethane	74-95-3	Quantified	0.000	ppbv
32	Toluene-D8	2037-26-5	Quantified	5.500	ppbv
38	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
40	Bromofluorobenzene	460-00-4	Quantified	4.850	ppbv

Attachment 3
Data Usability Summary Report

To: Mark Distler *cc:* SJ Spiegel
From: Karen A. Storne
Re: Review of Data for the Vapor Intrusion Sampling, Former GE Farrell Road Site, Performed February 2007
File: 5851/40162.100.100
Date: April 11, 2007

This report addresses the review of the sub-slab and indoor air samples collected for the Former GE Farrell Road Site in Geddes, New York. Sample collection activities were conducted by O'Brien & Gere on February 20, 2007.

The following table summarizes the analysis performed for this sampling event.

Table 1-1. *Analytical methods and references*

Parameter	Method	Reference
VOCs	USEPA Method TO-15, Including Modified SIM for Carbon Tetrachloride and Trichloroethene	1

Note:
1. United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.* Cincinnati, Ohio.

VOCs indicates volatile organic compounds.
SIM indicates selective ion monitoring.

Air Toxics LTD. of Folsom, California (Air Toxics) performed the analyses.

The laboratory packages generated by Air Toxics contained quality control analysis and supportive raw data.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.* Cincinnati, Ohio.
- O'Brien & Gere. 2006. *Vapor Intrusion Sampling Work Plan Addendum, Former GE Farrell Road. Site # 7-34-055. Geddes, New York.* Syracuse, New York.

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- United States Environmental Protection Agency (USEPA). 1994. *Region II Validating Canisters of Volatile Organics in Ambient Air,* HW-18, Revision 0. New York, New York.

USEPA data validation guidelines have been modified to reflect the requirements of the method used in the analysis of samples collected for this sampling event. Qualifiers were applied to data that failed to meet the quality control criteria presented in the USEPA method.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in this type of data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the detection limit or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Work plan compliance
- Chain-of-custody records
- Sample collection
- Holding times
- Calibrations
- Blank analysis
- Laboratory control sample (LCS)/Laboratory control sample duplicate (LCSD) analysis
- Field duplicate analysis
- Internal standards performance
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check
- Target analyte quantitation, identification, and reported detection limits
- Documentation completeness.

The samples that were submitted for data validation are listed in Table 1-2 presented in Attachment A.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of the data's usability is also presented in the final section.

VALIDATION APPROACH

O'Brien & Gere applies the following general approach for application of data validation qualifiers when control limits are exceeded:

- If percent recoveries are less than laboratory control limits but greater than ten percent, non-detected and detected results are qualified as approximate (J, UJ).

- If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J).

- If percent recoveries are less than ten percent, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R).

- If RPDs for field duplicates are outside of validation criteria, detected and non-detected results are qualified as approximate (UJ, J).

The calibration criteria used to evaluate the data generated for this investigation were based on the method criteria.

Laboratory established control limits were used to assess LCS data.

The cumulative effect of the various QA/QC excursions is employed in assigning the final data qualifiers. For example, if a sample result is affected by low LCS recovery for which the "J" qualifier is applied, but severely low internal standard recoveries result in the rejection of the sample result (R), the final qualifier is "R".

Qualification of data associated with field duplicate excursions is limited to the field duplicate pair.

Field duplicate data were evaluated against relative percent difference (RPD) criteria of less than 25 percent for air samples when results were greater than five times the reporting limit. When sample results for field duplicate pairs were less than five times the reporting limit, the data were evaluated using control limits of plus or minus two times the reporting limit.

SAMPLE COLLECTION

Canister blanks were not collected as part of this sampling event.

WORK PLAN COMPLIANCE

Although included in the target analyte list provided to the laboratory in the Work Plan, the target analyte 3-chloropropene was not reported by the laboratory for the samples analyzed for this investigation. In addition, target analytes were reported by the laboratory that were not included on the Work Plan target analyte list.

The Project Manager was informed of this compliance issue.

VOLATILE ORGANIC COMPOUND IN AIR DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Chain-of-custody records
- Holding times
- Internal standards performance
- GC/MS instrument performance check
- Field duplicate analysis
- Target analyte quantitation, identification and reported detection limits
- Documentation completeness.

Excursions from method or validation criteria are described in the following section along with additional observations made during the validation process.

I. Calibrations

As a result of an initial calibration excursion, the results for ethanol in samples SS-1-FR, SS-2-FR, SS-3-FR, SS-4-FR and SS-DUP-FR [SS-2-FR], associated with the calibration of 3/7/07 on instrument MSD-Z, were qualified as approximate (J) to indicate a minor compromise in calibration linearity.

As a result of a calibration verification excursion, the results for 2-butanone in samples AA-FR and IA-1-FR, associated with the calibration of 3/7/07 (11:14) on instrument MSD-Y, were qualified as approximate (J) to indicate a minor compromise in calibration linearity.

As a result of a calibration verification excursion, the results for ethanol and 1,2-dibromoethane in samples IA-2-FR, IA-4-FR, IA-3-FR and IA-5-FR, associated with the calibration of 3/9/07 (08:36) on instrument MSD-Y, were qualified as approximate (UJ, J) to indicate minor compromises in calibration linearity.

As a result of a calibration verification excursion, the results for bromomethane and chloroethane in samples SS-1-FR, SS-2-FR, SS-3-FR, SS-4-FR, SS-5-FR, and SS-DUP-FR [SS-2-FR], associated with the calibration of 3/8/07 (09:14) on instrument MSD-Z, were qualified as approximate (UJ, J) to indicate minor compromises in calibration linearity.

II. Blank analysis

As a result of blank contamination, the results for acetone in samples IA-5-FR, IA-4-FR, IA-3-FR and IA-2-FR, associated with the method blank of 3/9/07, were qualified as non-detected (U).

III. LCS analysis

The recovery for 1,2,4-trichlorobenzene in the LCS result of 3/7/07 was less than the lower laboratory control limit. As a result, the results for 1,2,4-trichlorobenzene in samples AA-FR and 1A-1-FR were qualified as approximate (UJ) to indicate a minor accuracy excursion.

The recovery for naphthalene in the LCS result of 3/7/07 was less than the lower laboratory control limit. As a result, the results for naphthalene in samples AA-FR and 1A-1-FR were qualified as approximate (UJ) to indicate a minor accuracy excursion.

DATA USABILITY

Overall data usability with respect to completeness for the final sample results reported is 100 percent for the VOC air data. The VOC air data were determined to be usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

Table 1-2
Cross Reference Table for
Lockheed Farrell Road

LABORATORY IDENTIFICATION	LABORATORY SAMPLE DELIVERY GROUP	LABORATORY SAMPLE ID	CLIENT SAMPLE ID	DATE COLLECTED	MATRIX	ANALYSIS REQUESTED
Air Toxics	0702505A	0702505A-01A	AA-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505A	0702505A-01B	AA-FR	2/21/2007	AIR	VOCs by TO15-Modified SIM for Carbon Tetrachloride and Trichloroethene
Air Toxics	0702505A	0702505A-08A	IA-1-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505A	0702505A-08B	IA-1-FR	2/21/2007	AIR	VOCs by TO15-Modified SIM for Carbon Tetrachloride and Trichloroethene
Air Toxics	0702505A	0702505A-09A	IA-2-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505A	0702505A-09B	IA-2-RF	2/21/2007	AIR	VOCs by TO15-Modified SIM for Carbon Tetrachloride and Trichloroethene
Air Toxics	0702505A	0702505A-10A	IA-3-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505A	0702505A-10B	IA-3-FR	2/21/2007	AIR	VOCs by TO15-Modified SIM for Carbon Tetrachloride and Trichloroethene
Air Toxics	0702505A	0702505A-11A	IA-4-FR, LAB DUP	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505A	0702505A-11B	IA-4-FR, LAB DUP	2/21/2007	AIR	VOCs by TO15-Modified SIM for Carbon Tetrachloride and Trichloroethene
Air Toxics	0702505A	0702505A-12A	IA-5-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505A	0702505A-12B	IA-5-FR	2/21/2007	AIR	VOCs by TO15-Modified SIM for Carbon Tetrachloride and Trichloroethene
Air Toxics	0702505B	0702505B-02A	SS-1-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505B	0702505B-03A	SS-2-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505B	0702505B-04A	SS-3-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505B	0702505B-05A	SS-4-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505B	0702505B-06A	SS-5-FR	2/21/2007	AIR	VOCs by TO15
Air Toxics	0702505B	0702505B-07A	SS-DUP-FR [SS-2-FR]	2/21/2007	AIR	VOCs by TO15

Note:
SS indicates subslab sample.
IA indicates indoor air sample.
Air Toxics, LTD of Fulsom, California

Attachment 4
Building Survey Form

O'BRIEN & GERE

Indoor Air Quality Building Survey

Date 2/20/07
Collector C Finke
Affiliation O'Brien & Gere

Access Contact Syroco, Inc. Address 241 Farrell Rd Geddes NY - Syroco Inc.
Phone 315-671-2438
Best time to contact -

Owner ☐ Renter ☐ Other ☐ Access Agreement Signed ____

Date built 21950
Yrs. of residence Since '93
No. of occupants 25-30 people

Building type:
Residential ☐ Commercial ☑ School ☐ Church ☐ Industrial ☐ Other ____

Check all that apply:

Ranch ☐ Cape ☐ 3-Family ☐ Raised Ranch ☐ Colonial ☐ Mobile Home ☐ 2-Family ☐ Duplex ☐ Other (specify) warehouse Apartments ☐ Condominium ☐

Above grade building construction

Wood frame ☐ Brick ☐ Poured concrete ☑ Concrete block ☑ Stone ☐ Other ____

Foundation construction

Fieldstone ☐ Poured concrete ☐ Solid top concrete block ☐ Open top concrete block ☐ Slab on grade ☑ Other ____

Is the owner aware of any additions made to the original design of the structure? (please specify)
Dock area office added in '99

Utilities

Sewer: Public ☑ Private ☐ Other ____
Water: Public ☑ Private ☐ Other ____ Spring ☐ Well ☐
Hot water heater type: Gas ☐ Oil ☐ Electric ☐ Other ____

Heating, ventilation, and air conditioning systems

Primary heat type: Hot air ☐ Hot water ☑ Steam radiator ☐ Electric ☐ Solar ☐ Other Boiler NE Docks
- From boiler in boiler room - Boiler room is near SE corner of building, room is not air tight - NO negative pressure

Fuel type (heat): Natural gas ☑ Fuel oil ☐ Electric ☐ Wood ☐ Other ____

Secondary heat type: Kerosene ☐ Wood stove ☐ Electric ☐ Propane ☐ Other —

Ventilation types: Attic fan ☐ Kitchen hood ☐ Bathroom fan ☐ Other Ventilation system appears inactive - many cold air returns
Ceiling fan ☐ Air filtration ☐ Induced fireplace ☐ Other ____

Air conditioning: Window units ☐ Furnance unit ☐ Electric ☐ Other —

- Outside air vent along wall near A25. ventilation fan along outside wall SE of stairway.

Basement type

None ☐ Half ☐ Vented crawlspace ☐ Other _____
Full ☐ Slab on grade ☑ Unvented crawlspace ☐ _____

If slab on grade, is there a garage with occupied space above? _____

Basement depth below grade (feet)

Front — Rear — Side 1 — Side 2 —

Basement characteristics

General:		Floor:		Walls:			
No. of rooms		Earth		Finished	✓	Paneling	
Bathroom	3	Concrete	✓	Unfinished		Tile	
Basement use	~~1~~ ②	Tile		Painted		Insulated	
		Carpet		Sheetrock		Uninsulated	
		Other		Other			

Check if present:

Fireplace		Elevator		French drain	
Sump pump		Ash cleanout		Floor cracks	✓
Floor drains	✓	Water damage		Wall cracks	
Interior walls	✓	Jacuzzi/hot tub		Other	

Does the basement have a moisture problem? NO

Does the basement ever flood? (specify frequency) - Mens bathroom (outside) ~~pipe~~ appears to be leaking onto the floor.

Does the basement have a radon system installed? _____

Has there been recent purchases of furnishings (carpets, rugs, linoleum, tile, or funiture) or remodeling (new construction,roofing, or floor stripping? (please specify) NO

Chemical usage, exposure and storage

Identify occupant hobbies:

Painting		Electronics		Model making	
Stained glass		Woodworking		Auto repair	
Jewelry making		Furniture refinishing		Other	

Where in the structure are these hobbies conducted? NA

Does the occupants' job require chemical exposure? No

If so, where are the occupants clothes cleaned? NA

Has the structure been fumigated in the last year? NO

If so, is fumigation regularly performed? (how often) NA

Are pesticides frequently applied to lawn or garden? No

If so, are they stored on the property? NO

Identify chemicals stored in the basement/1st floor living space, or garage if structure is slab on grade (include fuels, solvents, cleaners, etc.) Use separate inventory sheet for each area surveyed

Brand	Product	Amount stored
Aerosol Fragrence was found under cabinet in office area ~ 638ppb Moved entire case outside office into hallway (seperate from shop area)		
1 Tw Dymon Do it All Plus	Cleaner —	1 Qt
Krylon Mark-It	-	1 Can

Comments

Is there any other information about the structural features of this building, the habits of its occupants or potential sources for chemical contaminents to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

- Shop area has high traffic from fork lift trucks which operate on propane.
- Additives from hot water heat
- Truck traffic @ bay doors exists (near IA-1)

Identify photographs taken as additional documentation of existing conditions.

Photo ID	Description of photo
	Photos were taken of the chemical inventory and sampling locations. Photos are stored on the I: drive (obg-syracuse)

Sketch lot and sample location layout (if applicable)

see WP figure 1 for detail.

To:	Myron Parkolap	*cc:*	Heather Daniels, LMC
From:	Mark Distler		Phil Talucci, LMC
Re:	Preliminary Vapor Intrusion Sampling Results, Former GE Farrell Road Site, Site # 7-34-055		Virginia Robbins, BS&K
File:	5851/41510		
Date:	February 21, 2008		

This Technical Memorandum (TM) presents the results of additional sampling conducted at the former GE Farrell Road Site (Site) on December 17, 2007. The additional sampling was performed in accordance with a work plan, dated October 12, 2007, and a response letter to the New York State Department of Environmental Conservation (NYSDEC), dated November 13, 2007, which addressed comments in the NYSDEC's work plan approval letter, dated November 6, 2007.

The additional sampling was performed in response to O'Brien & Gere's May 24, 2007 technical memorandum (Memorandum) to Lockheed Martin Corporation (LMC), which reported results of vapor intrusion sampling performed in February 2007 and recommended additional sampling. The additional sampling was performed to confirm trichloroethene (TCE) and 1,1-dichloroethene (1,1-DCE) concentrations at previous sampling Locations 2 and 3. This Draft TM evaluates the additional sampling data with respect to the potential for vapor intrusion, and provides recommendations for next steps.

1. Site Background

The Site consists of 156 acres in an industrial zone setting located on Farrell Road and John Glenn Boulevard in the Town of Geddes, northeast of Routes 690 and 90 and south of the Seneca River. Nearly half of the Site (81 acres) is classified as a Class I wetlands. Ground water flows in a north/northwest direction across the Site toward Seneca River. Depth to ground water in the developed portion of the Site is approximately ten feet below ground surface (bgs). The developed portion of the Site is paved and contains four on-Site buildings; Buildings 1 and 2, former test building, and maintenance garage. Figure 1 shows Buildings 1 and 2.

There are three primary historic source areas relevant to vapor intrusion potential at the Site, referred to as areas of concern (AOC), where interim remedial measures (IRMs) were implemented.[1] The following identifies the locations (also shown on Figure 1) and gives a description of each AOC:

- AOC 5, located along the west side of Building 2, was an area where nine underground storage tanks (USTs) and a dry well were removed.
- AOC 7, located along the east side of Building 2, was an area of a former fuel oil UST and where drums containing Freon were rinsed.
- AOC 16, located adjacent to the maintenance garage, was an area of a former gasoline UST.

Currently, the Site is classified as Class 4 on the New York State Registry of Inactive Hazardous Waste Disposal Sites, based on the effectiveness of the IRMs. A ground water extraction and treatment system at the Site has been deemed effective at controlling off-site migration of shallow contaminated ground water. Concentrations of VOCs in ground water are periodically measured from samples collected from monitoring wells located at the Site. Building 2 is currently operated by Rite Aid Corporation who uses it as warehouse space for product inventory for its retail outlets.

[1] Note that there were other AOCs at the Site where some remedial work was completed, but they are not considered relevant to this investigation.

2. Vapor Intrusion Sampling

The additional vapor intrusion sampling was conducted on December 17, 2007. Samples of sub-slab vapor, indoor air, and ambient air were collected simultaneously over a 24-hour period. Samples were collected in accordance with the approved Work Plan, with the exception of the duration of sampling. Twenty four-hour constant differential low volume flow controllers were sent by the laboratory instead of the 8-hour constant differential low volume flow controllers, due to equipment availability, that were specified in the approved Work Plan. The NYSDEC was notified of the change and approved the use of the 24-hour flow controllers provided that the detection limits specified in the Work Plan were achieved. .

2.1 Sampling Locations and Methods

Paired sub-slab vapor and indoor air sample sets were collected at two locations at the northern portion of Building 2, as shown in Figure 1. The sampling locations were re-installed within approximately one-foot of the sampling locations sampled in February 2007. Sample sets were collected at the following locations:

Sample IDs	Location
SS-2-FR, IA-2-FR	Location 2, Middle of northern side of building
SS-3-FR, IA-3-FR	Location 3, Northeast corner of building

In addition to and concurrent with the sub-slab and indoor air sampling, an ambient air sample was collected immediate to and upwind of the building to assess the potential of impacts from upwind air sources on indoor air concentrations. The ambient air sample was located along a fence northwest of the building, as shown on Figure 1.

Air samples were collected using 6-liter pre-evacuated Summa® canisters. Sample collection rates were maintained by laboratory-calibrated constant-differential low volume flow controllers. Vacuum readings of the canisters were obtained and documented prior to sample collection and upon completion of sampling. Sample identifications, vacuum readings, flow controller identification numbers, and other relevant information were recorded on field forms provided in Attachment 1 of this document.

Sub-slab soil vapor samples were collected by drilling a 3/8-inch diameter hole in the building's slab near the locations of the previous sub-slab sampling, inserting inert food-grade tubing, sealing the tubing to the slab with beeswax, purging the tubing of indoor air, and slowly pulling (<15 cc/min) sub-slab vapor into a canister. The ambient and indoor air samples were collected by slowly pulling air into the canisters, which were situated at a height of 3 to 5 feet above the ground or slab. Samples were collected over a 24-hour period, utilizing batch certified-clean canisters for sub-slab samples and canisters that were individually certified-clean for low level analysis for indoor and ambient air samples. After sample collection, the canisters were shipped under routine chain-of-custody to a subcontracted laboratory, Air Toxics, Ltd. (Air Toxics) of Folsom, CA, where they were analyzed by USEPA Method TO-15. Air Toxics is certified under the Environmental Laboratory Approval Program (ELAP) and by NYSDOH for TO-15 analyses. Canister certifications and Chain-of-Custody forms can be found with the analytical results in Attachment 2.

2.2 Quality Control

In accordance with the Work Plan, one duplicate sub-slab sample (duplicate to SS-3-FR) and one duplicate indoor air sample (duplicate to IA-2-FR) were collected as part of this sampling program. Each set of duplicate samples were collected by installing a stainless steel "tee" to the sample tubing from which each canister pulled sub-slab or indoor air vapor. The combined sampling rate of sub-slab vapor from the duplicate sample locations was less than 0.01 liters per minute.

Additionally, a DUSR was prepared for this sampling program to compare sample data with validation criteria prescribed by the United States Environmental Protection Agency's (USEPA) data validation guidance[2]. The DUSR is attached as Attachment 3.

3. Building Survey and Chemical Inventory

Prior to sampling, the building tenant (Rite Aid) was requested to provide an inventory of the building's contents, so that an inventory of VOC-containing materials (such as aerosols, cleaners) could be documented (nearly all of building contents are warehoused in cardboard boxes without labels describing their contents). This inventory is provided in Attachment 4. Although the inventory is not detailed, it generally contains products such as paper tableware, gift bags/cards, holiday decorations, candles (no oils), and miscellaneous items. It does not appear that chlorinated solvents are included in the building's inventory.

O'Brien & Gere confirmed that the building survey information (e.g., building foundation, utilities, heating and ventilation systems, slab conditions and penetrations) collected during the initial sampling had not changed. Therefore a building survey form is not included in Attachment 4, but the following information is provided as an overview. Building 2's concrete floor (slab) is located on-grade. Except for some narrow cracks in the slab's surface, it is in excellent condition. Multiple floor drains as well as roof drains penetrate the floor throughout the building. The building is used as a warehouse, with few partitioning walls and separate rooms. The building is primarily heated by hot water radiators, located around the perimeter of the building. There is a loading dock area with three overhead doors located along the northern end of the building's west side, where two trucks were being loaded during the sampling. Two fan-operated hot water heating units were located above the dock area. There is a boiler room located near AOC 7, on the eastern side of the building. This room was found to be under neutral pressure with respect to outdoor pressure during boiler operation. There is an office, which is occasionally occupied, located near the loading docks. The office door is normally left open.

4. Sampling Results and Data Evaluation

4.1. Sub-Slab and Indoor Air Sampling Results

Sample results for each set of samples (sub-slab and indoor air) are presented together in Table 1 for each sampling location. Results are presented in units of micrograms per cubic meter ($\mu g/m^3$). The laboratory reports are provided as Attachment 2.

[2] USEPA 2006. "Validating Volatile Organic Analysis of Ambient Air in Canister by Method TO-15. SOP HW-31, Revision 4."

4.2. Quality Assurance and Quality Control

The duplicate sub-slab sample collected at Location 3 and the duplicate indoor air sample collected at Location 2 revealed excellent overall precision for both compounds. Laboratory analytical results were subjected to data validation requirements in accordance with the USEPA procedures, referenced above. Quality assurance/quality control (QA/QC) samples included laboratory blanks, field duplicates, and matrix spike / matrix spike duplicates (MS/MSD).

The DUSR (Attachment 3) reports that there were no excursions from method or validation criteria and therefore the data were not qualified. The DUSR concludes that the 100 percent of the data are usable for qualitative and quantitative purposes.

4.3. Data Evaluation

The sample results were evaluated to assess if:

- indoor air concentrations were attributable to vapor intrusion,
- sub-slab and indoor air concentrations changed significantly since the previous sampling,
- indoor air concentrations are above typical background levels for commercial buildings, and
- sub-slab and indoor air concentrations require any follow-on actions as recommended by NYSDOH's two soil vapor / indoor air matrices.

4.3.1. Vapor Intrusion Evaluation

The highest sub-slab concentration of the compounds sampled was for TCE. Sub-slab concentrations of 500 $\mu g/m^3$ in both the sub-slab and sub-slab duplicate samples were collected at Location 3. Considerably less TCE (3.4 $\mu g/m^3$) was found in the sub-slab sample at Location 2. TCE was not detected in the indoor air.

1,1-DCE was found at a low level (1 $\mu g/m^3$) in the indoor air sample collected at Location 3 but was not found above its reporting limit (0.65 $\mu g/m^3$) at Location 2. Sub-slab concentrations of 1,1-DCE for both locations were below the reporting limits of the samples.

Since no detectable levels of TCE was found in the indoor air at both locations and 1,1-DCE was found at a very low level at one indoor location (without a detectable level in either sub-slab sample), we conclude that vapor intrusion is not occurring at detectable levels. However, the TCE concentration in the sub-slab at Location 3 has the potential to intrude at detectable levels in the future if slab conditions change.

4.3.2 Comparison of Results to Previous Sampling

Table 2 provides a side-by-side comparison of the December 2007 and February 2007 sampling results. The comparison shows that there were some changes in the sub-slab concentrations for TCE (60% decrease at Location 2 and 50% increase at Location 3), however TCE concentrations were on the same order of magnitude between the two sampling events. The indoor air TCE concentrations were consistent between the December 2007 and February 2007 sampling results.

The sub-slab concentration for 1,1-DCE at Location 2 during the December 2007 sampling event was significantly lower than the February 2007 concentration. Similarly, indoor air concentrations for 1,1-DCE at Location 2 were also significantly lower. The indoor air concentration for 1,1-DCE at Location 3 also decreased since February 2007.

4.3.3 Indoor Air Background Levels

Table 1 includes indoor air background levels measured by the US Environmental Protection Agency (USEPA) in commercial and public buildings that do not have vapor intrusion[3]. These levels are referenced by NYSDOH and suggested for data evaluation in NYSDOH's vapor intrusion guidance[4]. As can be observed in Table 1, all of the measured indoor air concentrations are below the indoor air background levels. Therefore, we conclude that if vapor intrusion is occurring, it is not having an impact on indoor air quality above indoor air background levels.

4.3.4. NYSDOH Matrices

The NYSDOH guidance document has soil vapor / indoor air matrices for a few compounds including TCE and 1,1-DCE. Using the sub-slab and indoor concentrations, the matrices suggest the next step in managing potential vapor intrusion. Table 1 includes a column for each sampling location and each compound that presents the recommended next step suggested by the matrices, using the indoor air and sub-slab vapor results.

For TCE at Location 3, the matrix suggests that mitigation be performed because the sub-slab vapor concentration is high enough that it may potentially cause future indoor air exposure if the slab or building conditions were to change. For TCE at Location 2, the matrix suggests that no further action is necessary. For 1,1-DCE, the matrix suggests that no further action is necessary for both locations

5. Summary and Recommendations for Next Steps

As discussed above, vapor intrusion is not occurring at a rate that is detectable or resulting in indoor concentrations above background levels. In addition, TCE is the only compound that has the potential for vapor intrusion due to the elevated sub-slab concentrations at Location 3. TCE sub-slab and indoor air concentrations are relatively unchanged from previous sampling conducted in February 2007. 1,1-DCE has decreased significantly in both sub-slab vapor and indoor air.

NYSDOH guidance suggests that no further action is necessary for 1,1-DCE and TCE at Location 2. Due to the sub-slab concentration of TCE at Location 3, the NYSDOH guidance suggests that mitigation should be considered to prevent future potential vapor intrusion. However, the guidance also states that its recommended actions are generic and can be modified to accommodate building-specific conditions. Therefore we recommend monitoring of TCE at Location 3 as an alternative to mitigation for the following reasons:

1. The indoor air concentrations for TCE were well below the indoor air background levels and health risk levels (air guideline values) suggested by NYSDOH. Therefore, there is no immediate health risk concern.
2. The building slab is in very good condition.

[3] USEPA 2001. "Building Assessment and Survey Evaluation (BASE) Database".
[4] NYSDOH 2006. "Guidance for Evaluating Soil Vapor Intrusion in the State of New York".

3. The building is entirely unoccupied during weekends and most of each workday. During the 8 to 10 hours per workday that it is occupied, the few building occupants rarely spend any time in the Location 3 area. Therefore, the amount of potential future exposure would be significantly less than the assumptions used by NYSDOH in developing its air guideline value.
4. Annual monitoring (re-sampling) will detect vapor intrusion, and corrective action can be implemented well before any long-term exposure is experienced.

In addition to monitoring of TCE at Location 3, we recommend re-sampling at Location 2 for 1,1-DCE in late 2008 to confirm the apparent decrease of 1,1-DCE sub-slab concentrations.

Attachments: Table 1 – Summary of Vapor Intrusion Sampling Results
Table 2 – Comparison of Vapor Intrusion Sampling (February and December 2007)
Figure 1 – Sampling Locations
Attachment 1 – Field Data Forms
Attachment 2 – Sample Analysis Data
Attachment 3 – Data Usability Summary Report
Attachment 4 – Building Inventory

TABLES

O'BRIEN & GERE

Table 1
Summary of Vapor Intrusion Sampling Results
Former GE Farrell Road Building 5/5A Site (NYSDEC Site # 7-34-055)
Geddes, NY

		Sample Location:		2				3			
		Sample Type:	Ambient	Sub-Slab	Indoor Air	Indoor Air		Sub-Slab	Sub-Slab	Indoor Air	
	Indoor Air Background	Sample I.D.:	AA-FR-121707	SS-2-FR-121707	IA-2-FR-121707	IA-DUP-FR-121707	NYSDOH	SS-3-FR-121707	SS-DUP-FR-121707	IA-3-FR-121707	NYSDOH
Compound	Levels[a]	Sample Date:	12/17/07	12/17/07	12/17/07	12/17/07	Matrix[b]	12/17/07	12/17/07	12/17/07	Matrix[b]
Trichloroethene	4.2		<0.77	3.4	<0.96	<0.88	NFA	500	500	<0.88	Mitigate
1,1-Dichloroethene	<1.4		<0.57	<0.68	<0.71	<0.65	NFA	<1.2	<1.3	1.0	NFA

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

[a] Indoor air concentrations measured in commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile from the EPA 2001 BASE Database as reported in the NYSDOH vapor intrusion guidance (October 2006).

[b] NYSDOH vapor intrusion guidance (Oct 2006) recommends actions based on the combination of sub-slab and indoor air concentrations.

<## - Compound not detected above the reporting limit (##).

NFA - No further action as recommended by NYSDOH guidance.

Mitigate - NYSDOH guidance recommends mitigation of high sub-slab concentrations to protect against future potential vapor intrusion if slab conditions change.

O'BRIEN & GERE

Table 2
Comparison of Vapor Intrusion Sampling Results (February and December 2007)
Former GE Farrell Road Site (NYSDEC Site # 7-34-055)
Geddes, NY

	Sample Location:	*2*				*3*			
	Sample Type:	Sub-Slab		Indoor Air		Sub-Slab		Indoor Air	
	Sample I.D.:	SS-DUP-FR[a]	SS-2-FR-121707	IA-2-FR	IA-2-FR-121707	SS-3-FR	SS-3-FR-121707	IA-3-FR	IA-3-FR-121707
Compound	Sample Date:	2/20/07	12/17/07	2/20/07	12/17/07	2/20/07	12/17/07	2/20/07	12/17/07
Trichloroethene		8.2	3.4	0.39	<0.96	340	500	0.32	<0.88
1,1-Dichloroethene		300	<0.68	4.1	<0.71	<1.3	<1.2	3.6	1.0

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

<## - Compound not detected above the reporting limit (##).

FIGURES

I:\Div01\Projects\5851\41510\Docs\MXD\Sampling Locations

FIGURE 1

LEGEND

SUB-SLAB, INDOOR AIR AND AMBIENT AIR SAMPLE LOCATIONS*

SITE BOUNDRY*

NOTES:
* - APPROXIMATE LOCATIONS

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING LOCATIONS

0 50 100 200
Feet

January 2008
41510.100.100

O'BRIEN & GERE

This document was developed in color. Reproduction in B/W may not represent the data as intended.

PLOT DATE: 1/9/2008 DIV.001 KAC

ATTACHMENT 1

Field Data Forms

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project # 41510
Project Name FARRELL RD
Date 12/17/07
Collector EA/CF

Structure Location

Sample Locations
Same sample location (#3) as 02/07. New sample hole was drilled 1' away

PID/FID meter ID PINE 10604
Sample Duration (Intended) 24 Hr

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP	
Sample ID	IA-3-FR-121707	Sample ID	SS-3-FR-121707	Sample ID	SS-DUP-FR-121707
Canister ID	31439	Canister ID	36035	Canister ID	22494
Flow Controller ID	5352	Flow Controller ID	5730	Flow Controller ID	5334
Date/Time start	12/17/07 647	Date/Time start	12/17/07 647	Date/Time start	12/17/07 647
Date/Time end	12/18/07 602	Date/Time end	12/18/07 602	Date/Time end	12/18/07 602
Gauge prior to start	0	Gauge prior to start	6	Gauge prior to start	6
Start vacuum	30.0	Start vacuum	30.0	Start vacuum	30.2
End vacuum	7.6.1	End vacuum	5.5"	End vacuum	8.3
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~60°	Air temperature (°F)	~60°	Air temperature (°F)	~60°
PID/FID reading	20 ppb	PID/FID reading	86 ppb	PID/FID reading	86 ppb
in. tubing used	0	in. tubing used	36"	in. tubing used	4" off "Tee"
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?	Yes
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	
Intake height above floor (in)	~36"	Floor slab depth	6 1/4"	Distance to road (ft)	
Floor surface type	Concrete	Intake depth below floor (in)	1/4"	Direction to closest building (degrees)	
Room	Warehouse	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	On-Grade	Room	Warehouse	Intake height above ground level (in)	
	—	Story/level	On-Grade		

Building Survey and Chemical Inventory Form Completed? —
Photographs Taken? YES

Comments:

Analytical method required TO-15 FOR TCE, 1,1 DCE ONLY (LL)
Laboratory used Air Toxics LTD

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project # 41510
Project Name LMCO - Farrell Rd
Date 12/17/07
Collector CJF, EMA

Structure Location

Sample Locations: Same location as #2 sample location from 02/07. New sample hole was drilled 1' away.

PID/FID meter ID PINE 10604
Sample Duration (Intended) 24 Hr

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP	
Sample ID	SS-IA-2-FR-121707	Sample ID	SS-2-FR-121707	Sample ID	IA-DUP-FR-121707
Canister ID	14005	Canister ID	12015	Canister ID	4334
Flow Controller ID	5179	Flow Controller ID	5539	Flow Controller ID	6791
Date/Time start	12/17/07 643	Date/Time start	12/17/07 643	Date/Time start	12/17/07 643
Date/Time end	12/18/07 0558	Date/Time end	12/18/07 0558	Date/Time end	12/18/07 0558
Gauge prior to start	0" Hg	Gauge prior to start	0" Hg	Gauge prior to start	0" Hg
Start vacuum	30" Hg	Start vacuum	30" Hg	Start vacuum	29.5" Hg
End vacuum	8.8" Hg	End vacuum	7.2" Hg	End vacuum	~~-~~ -6.5" Hg
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~62°F	Air temperature (°F)	~62°F	Air temperature (°F)	~62°F
PID/FID reading	35 ppb	PID/FID reading	92 ppb	PID/FID reading	35 ppb
in. tubing used	0'	ft. tubing used	3.0'	in. tubing used	0"
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?	NA
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Yes* see comments	Noticeable odor	Yes	Noticeable odor	
Intake height above floor (in)	~36"	Floor slab depth	5 1/2"	Distance to road (ft)	
Floor surface type	Concrete	Intake depth below floor (in)	4"	Direction to closest building (degrees)	
Room	Warehouse	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	On-Grade	Room	Warehouse	Intake height above ground level (in)	
	—	Story/level	On-Grade		

Building Survey and Chemical Inventory Form Completed? To be gathered by contact
Photographs Taken? Yes

Comments: Darren Pickard - contact
* Noticeable odor of pine scent was observed in the vicinity of #2. A PID was used to scan the area - No significant readings were found.

Analytical method required TO 15 TCE, 1,1-DCE
Laboratory used Air Toxics

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project # 41510
Project Name Farrell Rd
Date 12/17/07
Collector CE, EA

Structure Location

PID/FID meter ID PINE 10604
Sample Duration (Intended) 24Hr

Sample Locations

Ambient air sample was taken at same location as one taken in 02/07.

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP
Sample ID	Sample ID	Sample ID AA-FR-121707
Canister ID	Canister ID	Canister ID 96114
Flow Controller ID	Flow Controller ID	Flow Controller ID 5396
Date/Time start	Date/Time start	Date/Time start 12/17/07 0642
Date/Time end	Date/Time end	Date/Time end 12/18/07 0556
Gauge prior to start	Gauge prior to start	Gauge prior to start 0"
Start vacuum	Start vacuum	Start vacuum 30.3" Hg
End vacuum	End vacuum	End vacuum 2.8" Hg
Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F)	Air temperature (°F) 21°F
PID/FID reading	PID/FID reading	PID/FID reading 0
in. tubing used	in. tubing used	in. tubing used 0"
Tubing purged?	Tubing purged?	Tubing purged? NA
For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor	Noticeable odor No
Intake height above floor (in)	Floor slab depth	Distance to road (ft) —
Floor surface type	Intake depth below floor (in)	Direction to closest building (degrees) North of Building
Room	Floor surface type	Distance to closest building (ft) Approx 100'
Story/level	Room	Intake height above ground level (in) ~5'
	Story/level	—

Building Survey and Chemical Inventory Form Completed? —
Photographs Taken? —

Comments:

Analytical method required TO-15, TCE, 11-DCE only
Laboratory used Air Toxics

ATTACHMENT 2

Sample Analysis Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0712393

Work Order Summary

CLIENT:	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057	**BILL TO:**	Mr. Mark Distler OBrien & Gere 5000 Britonfield Parkway E. Syracuse, NY 13057
PHONE:	315-437-6100	**P.O. #**	
FAX:	315-463-7554	**PROJECT #**	41510 Farrell Rd
DATE RECEIVED:	12/19/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	01/04/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AA-FR-121707	Modified TO-15	2.0 "Hg	5psi
02A	IA-DUP-FR-121707	Modified TO-15	5.5 "Hg	5psi
03A	IA-2-FR-121707	Modified TO-15	7.5 "Hg	5psi
04A	IA-3-FR-121707	Modified TO-15	5.5 "Hg	5psi
05A	SS-2-FR-121707	Modified TO-15	6.5 "Hg	5psi
06A	SS-DUP-FR-121707	Modified TO-15	5.5 "Hg	5psi
07A	SS-3-FR-121707	Modified TO-15	4.5 "Hg	5psi
08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 01/04/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
OBrien & Gere
Workorder# 0712393

Five 6 Liter Summa Special (100% Certified) and two 6 Liter Summa Special samples were received on December 19, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AA-FR-121707

Lab ID#: 0712393-01A

No Detections Were Found.

Client Sample ID: IA-DUP-FR-121707

Lab ID#: 0712393-02A

No Detections Were Found.

Client Sample ID: IA-2-FR-121707

Lab ID#: 0712393-03A

No Detections Were Found.

Client Sample ID: IA-3-FR-121707

Lab ID#: 0712393-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.16	0.26	0.65	1.0

Client Sample ID: SS-2-FR-121707

Lab ID#: 0712393-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.17	0.63	0.92	3.4

Client Sample ID: SS-DUP-FR-121707

Lab ID#: 0712393-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.33	93	1.8	500

Client Sample ID: SS-3-FR-121707

Lab ID#: 0712393-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.32	94	1.7	500

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-FR-121707

Lab ID#: 0712393-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123011**	**Date of Collection: 12/18/07**	
Dil. Factor:	**1.44**	**Date of Analysis: 12/30/07 11:22 PM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Trichloroethene	0.14	Not Detected	0.77	Not Detected

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-DUP-FR-121707

Lab ID#: 0712393-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123012**	**Date of Collection: 12/18/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 12/31/07 12:25 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	94	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-2-FR-121707

Lab ID#: 0712393-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123013**	**Date of Collection: 12/18/07**	
Dil. Factor:	**1.79**	**Date of Analysis: 12/31/07 01:34 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Trichloroethene	0.18	Not Detected	0.96	Not Detected

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-FR-121707

Lab ID#: 0712393-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123014**	**Date of Collection: 12/18/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 12/31/07 02:31 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.16	0.26	0.65	1.0
Trichloroethene	0.16	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-2-FR-121707

Lab ID#: 0712393-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123010**	**Date of Collection: 12/18/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 12/30/07 10:39 PM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Trichloroethene	0.17	0.63	0.92	3.4

Container Type: 6 Liter Summa Special (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	109	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-DUP-FR-121707

Lab ID#: 0712393-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123018**	**Date of Collection: 12/18/07**	
Dil. Factor:	**3.28**	**Date of Analysis: 12/31/07 06:08 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Trichloroethene	0.33	93	1.8	500

Container Type: 6 Liter Summa Special

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-3-FR-121707

Lab ID#: 0712393-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123019**	**Date of Collection:**	**12/18/07**
Dil. Factor:	**3.16**	**Date of Analysis:**	**12/31/07 09:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.32	Not Detected	1.2	Not Detected
Trichloroethene	0.32	94	1.7	500

Container Type: 6 Liter Summa Special

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0712393-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/07 06:50 PM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	109	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0712393-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/07 04:27 PM**	

Compound	**%Recovery**
1,1-Dichloroethene	108
Trichloroethene	106

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	89	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0712393-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s123003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/30/07 05:12 PM**	

Compound	**%Recovery**
1,1-Dichloroethene	112
Trichloroethene	102

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	98	70-130

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CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager MARK DISTLER

Collected by: (Print and Sign) CHRIS FINKE

Company O'BRIEN + GERE Email distlerma@obg.com

Address 333 W. Washington Ave Ste 410 City E. Syracuse State NY Zip 13057

Phone 315-437-6100 Fax 315-463-7554

Project Info:
P.O. #
Project # 411510
Project Name FARRELL RD

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psig)
01A	AA-FR-121707	96114	12/18/07	556	TO-15 FOR TCE + 1,1 DCE ONLY (LL)	30.3"	2.8"		
02A	IA-DUP-FR-121707	4334	12/18/07	558	TO-15 FOR TCE + 1,1 DCE only (LL)	29.5"	8.6" & 6.0"		
03A	IA-2-FR-121707	14005	12/18/07	558	TO-15 FOR TCE + 1,1 DCE only (LL)	30.0"	8.8"		
04A	IA-3-FR-121707	34459	12/18/07	602	TO-15 FOR TCE + 1,1 DCE only (LL)	30.0"	6.1"		
05A	SS-2-FR-121707	12015	12/18/07	558	TO-15 FOR TCE + 1,1 DCE only (LL)	30.0"	7.2"		
06A	SS-DUP-FR-121707	22496	12/18/07	602	TO-15 FOR TCE + 1,1 DCE only (LL)	30.0"	6.3"		
07A	SS-3-FR-121707	36035	12/18/07	602	TO-15 FOR TCE + 1,1 DCE only (LL)	30.0"	5.5"		

Relinquished by: (signature) Date/Time 12/19/07 1345
Received by: (signature) Monica Grosser ATL 12/19/07 935

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
RETURNING ONE UNUSED CAN

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
FedEx	9600 3340 0401	MA	Good	(Yes) No None	0712393

Form 1283 rev.11

Air Toxics Ltd.
www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L#96114 w/24hr#53-96
Can#: 56034-96114
Date : 12/05/07 22:01
Data File: x120517.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		103.00	% Recovery
Toluene-d8	2037-26-5		101.00	% Recovery
4-Bromofluorobenzene	460-00-4		96.00	% Recovery

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Media Certification Report

Canister Number: 6L#4334 w/24hr#6791
Can#: 56034-4334
Date : 12/05/07 23:57
Data File: x120521.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv

Name	CAS	Type	Conc	Units
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		103.00	% Recovery
Toluene-d8	2037-26-5		102.00	% Recovery
4-Bromofluorobenzene	460-00-4		98.00	% Recovery

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Media Certification Report

Canister Number: 6L#14005 w/24hr
Can#: 56034-14005
Date : 12/06/07 3:59
Data File: x120528.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		104.00	% Recovery
Toluene-d8	2037-26-5		103.00	% Recovery
4-Bromofluorobenzene	460-00-4		99.00	% Recovery

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Media Certification Report

Canister Number: 6L#34439 w/24hr
Can#: 56034-34439
Date : 12/06/07 2:32
Data File: x120525.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		104.00	% Recovery
Toluene-d8	2037-26-5		102.00	% Recovery
4-Bromofluorobenzene	460-00-4		98.00	% Recovery

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Media Certification Report

Canister Number: 6L#12015 w/24hr
Can#: 56034-12015
Date : 12/06/07 2:04
Data File: x120524.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv

Name	CAS	Type	Conc	Units
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		108.00	% Recovery
Toluene-d8	2037-26-5		102.00	% Recovery
4-Bromofluorobenzene	460-00-4		99.00	% Recovery

ATTACHMENT 3

Data Usability Summary Report

To:	Mark Distler	*cc:*
From:	Karen A. Storne	
Re:	Review of Data for the Vapor Intrusion Sampling, Former GE Farrell Road Site, Performed December 2007	
File:	5851/41510.100.100	
Date:	February 19, 2008	

This report addresses the review of the sub-slab and indoor air samples collected for the Former GE Farrell Road Site in Geddes, New York. Sample collection activities were conducted by O'Brien & Gere on December 18, 2007.

The following table summarizes the analysis performed for this sampling event.

Table 1-1. *Analytical methods and references*

Parameter	Method	Reference
VOCs	USEPA Method TO-15 Modified SIM	1

Note:
1. United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.* Cincinnati, Ohio.

VOCs indicates volatile organic compounds.
SIM indicates selective ion monitoring.

Air Toxics LTD. of Folsom, California (Air Toxics) performed the analyses.

The laboratory packages generated by Air Toxics contained quality control analysis and supportive raw data.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.* Cincinnati, Ohio.

- O'Brien & Gere. 2006. *Vapor Intrusion Sampling Work Plan Addendum, Former GE Farrell Road. Site # 7-34-055. Geddes, New York.* Syracuse, New York.

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- United States Environmental Protection Agency (USEPA). 2006. *Validating Volatile Organic Analysis of Ambient Air in canister by Method TO-15. SOP HW-31, Revision 4.* Albany, New York

USEPA data validation guidelines have been modified to reflect the requirements of the method used in the analysis of samples collected for this sampling event. Qualifiers were applied to data that failed to meet the quality control criteria presented in the USEPA method.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in this type of data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Work plan compliance
- Chain-of-custody records
- Sample collection
- Holding times
- Calibrations
- Blank analysis
- Laboratory control sample (LCS)/Laboratory control sample duplicate (LCSD) analysis
- Field duplicate analysis
- Internal standards performance
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check
- Target analyte quantitation, identification, and QLs
- Documentation completeness.

The samples that were submitted for data validation are listed in Table 1-2 presented in Attachment A.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VALIDATION APPROACH

O'Brien & Gere applies the following general approach for application of data validation qualifiers when control limits are exceeded:

- If percent recoveries are less than laboratory control limits but greater than ten percent, non-detected and detected results are qualified as approximate (J, UJ).

- If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J).

- If percent recoveries are less than ten percent, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R).

- If RPDs for field duplicates are outside of validation criteria, detected and non-detected results are qualified as approximate (UJ, J).

The calibration criteria used to evaluate the data generated for this investigation were based on the method criteria.

Laboratory established control limits were used to assess LCS data.

The cumulative effect of the various QA/QC excursions is employed in assigning the final data qualifiers. For example, if a sample result is affected by low LCS recovery for which the "J" qualifier is applied, but severely low internal standard recoveries result in the rejection of the sample result (R), the final qualifier is "R".

Qualification of data associated with field duplicate excursions is limited to the field duplicate pair.

Field duplicate data were evaluated against relative percent difference (RPD) criteria of less than 25 percent for air samples when results were greater than five times the QL. When sample results for field duplicate pairs were less than five times the QL, the data were evaluated using control limits of plus or minus two times the QL.

SAMPLE COLLECTION

Canister blanks were not collected as part of this sampling event.

VOLATILE ORGANIC COMPOUND IN AIR DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Work plan compliance
- Chain-of-custody records
- Sample collection
- Holding times
- Calibrations
- Blank analysis
- LCS/LCSD analysis
- Field duplicate analysis
- Internal standards performance
- GC/MS instrument performance check
- Target analyte quantitation and identification
- Documentation completeness.

Excursions from method or validation criteria were not detected during the validation process. Therefore data were not qualified during the validation process. Additional observations are presented in the following section.

I. Target analyte quantitation limits.

As part of laboratory policy in analyzing this type of air sample, Air Toxics routinely pressurizes samples at the time of receipt at the laboratory. This pressurization step allows sufficient sample volume to be available in the case that multiple analyses are necessary. This step dilutes the sample within the canister, which results in an increase in the QLs.

The results for samples SS-3-FR-121707 and SS-DUP-FR-121707 [SS-3-FR-121707] were analyzed at an additional dilution of 1:2 due to elevated concentrations of trichloroethene in the samples.

DATA USABILITY

Overall data usability with respect to completeness for the final sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

ATTACHMENT A

Table 1-2 Cross Reference Table

LABORATORY IDENTIFICATION	LABORATORY SAMPLE DELIVERY GROUP	LABORATORY SAMPLE ID	CLIENT SAMPLE ID	DATE COLLECTED	MATRIX	ANALYSIS REQUESTED
Air Toxics	0712393	0712393-01A	AA-FR-121707	12/18/2007	AIR	VOCs
Air Toxics	0712393	0712393-02A	IA-DUP-FR-121707[IA-2-FR-121707]	12/18/2007	AIR	VOCs
Air Toxics	0712393	0712393-03A	IA-2-FR-121707	12/18/2007	AIR	VOCs
Air Toxics	0712393	0712393-04A	IA-3-FR-121707	12/18/2007	AIR	VOCs
Air Toxics	0712393	0712393-05A	SS-2-FR-121707	12/18/2007	AIR	VOCs
Air Toxics	0712393	0712393-06A	SS-DUP-FR-121707[SS-3-FR-121707]	12/18/2007	AIR	VOCs
Air Toxics	0712393	0712393-07A	SS-3-FR-121707	12/18/2007	AIR	VOCs

Note:
Air Toxics of Folsom, California
VOCs indicates volatile organic compounds
IA indicates indoor air sample
SS indicates sub-slab air sample
Dup indicates duplicate analysis of this sample.

ATTACHMENT 4

Building Inventory

PIONEER

Warehousing & Distribution, LLC

DATE: _____

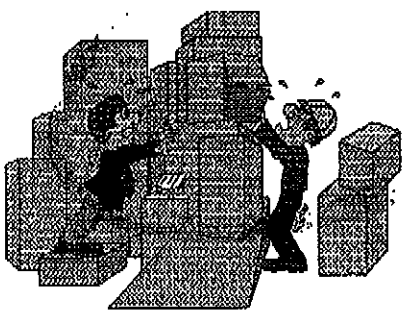
TO: Chris Finke

FROM: Dawn

MESSAGE: (NUMBER OF PAGES INCLUDING THIS COVER SHEET) _____

General Merchandise -

X-mas items



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X-MAS '07 w-1-1

WAVE 1

		wave1					
vndr #	item	desc	uom	cs pk	cs slv pc	pioneer slot	comment
32978	147130	KB SKATNG N PARK DNNRPLATE	12	48	SLV	utica	
32978	147131	KB SKATNGNPARK 8I S/PLATE	6	48	SLV	utica	
32978	147132	KB SKATE N PARK 8IN BOWL	12	48	SLV	utica	
32978	147133	KB SKATING N PARK TUMBLER	12	48	SLV	utica	
32978	147134	KB SNOWMAN TIDBIT DISH	6	48	SLV	utica	
32978	147135	KB TREE TIDBIT DISH	6	48	SLV	utica	
32978	147136	KB SKATE N PARK SERVNG BWL	3	12	SLV	utica	
32978	[illegible]	KB SKATE IN PARK PLATTER	3	12	SLV	utica	
32978	147138	KB SKATE N PARK CERMC MUG	6	24	SLV	utica	
32978	147139	KB SKATEN PARK HNDL TRAY	3	12	SLV	utica	
32978	147140	KB SKATE N PARK TABLECLOTH	2	24	SLV	utica	
32978	147141	KB SKATENPARK KITCHN TOWEL	4	48	SLV	utica	
32978	202258	KB 3FT DIS SKATING IN THE PARK	1	1	CS	utica	
32978	202259	KB 2FT DIS SKATING IN THE PARK	1	1	CS	utica	
32978	202260	KB 30I DIS SKATING IN THE PARK	1	1	CS	utica	
	905503	CERAMIC TOWER HTR W/REMOTE	1	4	pc	utica	
	929790	COMPACT HEATER CERAMIC	1	6	pc	utica	
30469	937883	PLUSH FM SCAN RADIO	1	12	PC	94882	
	942412	OSCILLATING PWR HEATER FAN	1	4	pc	utica	
30469	942414	AUDUBON SING BIRD CLOCK	1	12	PC	94861	
30469	945152	JOHN DEERE TRACTR CLCK13I	1	12	PC	94862	
30469	945155	MUSCLE CAR CLOCK 13IN	1	12	PC	94863	
30469	946528	WACKEY WAKERS COW CLOCK	1	36	PC	94885	
31787	946529	WACKEY WAKERS HORSE	1	36	PC	94886	
31787	946530	WACKY WAKERS ROOSTER	1	36	PC	94887	
31859	948523	XGW CRYSTAL SALT LAMP 6.5IN	1	4	PC	94832	
35367	948527	XGW CANDLE HOLDER 4.5IN	1	6	PC	94833	
37251	953085	XWA 20SHEET PRINT TISSUE	12	24	SLV	94903	
37487	953089	XWA 90SHEET WHITE TISSUE	12	24	SLV	94904	
37487	953090	XWA 20SHEET SPARKLE TISSUE	12	24	SLV	94906	
37487	953093	XWA WINE TOTE VELVETSEQUIN	6	72	SLV	94651	
37487	953098	XWA GIFT BAG 10CT PACK	6	12	SLV	94548	
39972	953099	XWA GIFT BAG JUMBO WIDE	6	144	SLV	94549	
39972	953103	XWA GIFT BAG LG WHIMSY	6	288	SLV	94817	
37054	953104	XWA GIFT BAG JUMBO WIDE	6	144	SLV	94550	
37054	953108	XWA GIFT BAG SUPER JUMBO	6	96	SLV	94551	
37054	953112	XWA GIFT BAG GIANT WIDE	6	72	SLV	94552	
37054	953113	XWA GIFT BAG CLUB TRADITIO	6	288	SLV	94553	
37065	953115	XWA GIFT BAG CUB GLAMOUR	6	240	SLV	94554	
37065	953118	XWA GIFT BAG MED DIE-CUT	6	240	SLV	94555	
37065	953119	XWA GIFT BAG PETITE DIECUT	8	576	SLV	94556	
37065	953120	XWA GIFT BAG PETITE RIBBON	6	576	SLV	94557	
37018	953121	XWA GIFT BAG PETITE OMNI	6	576	SLV	94558	
37018	953122	XWA GIFT BAG LG DIE-CUT	6	240	SLV	94559	
37018	953126	XWA GIFT BAG LARGE KRAFT	6	240	SLV	94560	
30479	953127	XWA GIFT BAG LARGE FELT	6	240	SLV	94650	
30479	953129	XWA GIFT BAG CUB COZY	6	288	SLV	94561	
30479	953130	XWA GIFT BAG CUB WHIMSICAL	6	288	SLV	94562	
30479	953132	XWA GIFT BAG CUB WHIMSICAL	6	288	SLV	94563	
30479	953135	XWA GIFT BAG CUB DIE-CUT	6	240	SLV	94564	
30479	953137	XWA GIFT BAG CUB OVERSIZED	6	240	SLV	94565	
30479	953138	XWA GIFT BAG CUB PLEATED	6	240	SLV	94566	

315 463-7554 Attn: Chris Fiske

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30479	953140	XWA GIFT BAG TALL TINSEL	8	240	SLV	94567	
30479	953144	XWA GIFT BAG VOGUE DIE-CUT	8	240	SLV	94568	
30479	953145	XWA GIFT BAG VOGUE PREMIER	8	240	SLV	94569	
30479	953147	XWA GIFT BAG LG TRAPEZOID	8	240	SLV	94570	
30479	953149	XWA GIFT BAG LG FOLDOVER	8	240	SLV	94571	
30479	953151	XWA WINE TOTE PREMIER	8	240	SLV	94572	
30479	953152	XWA WINE TOTE TINSEL PLEAT	8	240	SLV	94610	
30479	953155	XWA GIFT BAG TALL FROSTED	8	240	SLV	94652	
30479	953168	XWA HANGING GFTCARD HOLDR	8	192	SLV	94657	
30479	953169	XWA PILLOW GFTCARD HOLDER	8	192	SLV	94659	
30479	953170	XWA HAND TIED BOW	12	24	SLV	94641	
30479	953173	XWA TINSEL CORD & RIBBON	45	360	SLV	94640	
30479	959002	XBC 12CT HANDMEADE CARDS	12	12	CS	94132	
30479	959003	XBC 14CT CORE CARDS #1	12	12	CS	94134	
31859	959004	XBC 14CT CORE CARDS #2	12	12	CS	94156	
31859	959005	XBC 30CT CORE HI-CT CARD	24	24	CS	94136	
31859	959006	XBC 14CT XMAS STORY CARDS	12	12	CS	94135	
31859	959007	XBC 14CT DELUXE CARD #4	12	12	CS	94137	
31859	959008	XBC 14CT DELUXE CARDS #1	12	12	CS	94138	
31859	959009	XBC 14CT DELUXE CARD #2	12	12	CS	94139	
31859	959010	XBC 14CT DELUXE CARDS #5	12	12	CS	94140	
31859	959011	XBC 14CT DELUXE CARDS #3	12	12	CS	94141	
31859	959012	XBC 12CT PERMIUM CARDS #1	12	12	CS	94185	
31859	959013	XBC 12C PREMIUM CARD #2	12	12	CS	94186	
31859	959014	XBC 50CT ASSORTED CARDS	20	20	CS	94142	
31859	959015	XBC 16CT VALUE CARDS #1	24	24	CS	94143	
31859	959016	XBC 16CT VALUE CARDS #2	24	24	CS	94144	
31859	959017	XBC 16CT VALUE CARDS #3	24	24	CS	94145	
31859	959018	XWA GIFT CARD ORNAMENT	20	160	SLV	94644	
31859	959019	XWA KINKADE LG GIFT BAG	6	72	SLV	94649	
31859	959020	XWA KINKADE MED GIFT BAG	6	72	SLV	94647	
31921	959021	XWA GIFT CARD BOX	3	24	SLV	94643	
31921	959022	XWA GIFT BOX WHITE ROSE	12	24	SLV	94663	
32331	959023	XWA GIFT BOX WHITE SHIRT	10	20	SLV	94665	
32331	959025	XWA GIFT BOXES WHITE 10PK	5	10	SLV	94664	
32331	959026	XWA COUNTRY CHRISTMAS BOX	10	20	SLV		
32331	959027	XWA GIFT BOX TONE ON TONE	5	15	SLV	94653	
32331	959028	XWA GIFT BOX PRINTED ROSE	12	24	SLV	94658	
32331	959031	XWA GIFT BOX 10PK PRINTS	5	10	SLV	94660	
32331	959035	XWA 20PC RED/GREEN TISSUE	12	24	SLV	CT6905	
32331	959036	XWA 40SHEET WHITE TISSUE	12	24	SLV	CT6903	
32331	959048	XGW 16IN DOLL VIGNETTE SET	2	2	CS	94157	
32331	959060	XGW GEORGE BUSH-DANCING	1	6	PC	94834	
32331	959061	XGW HILLARY CLINTON DNCING	1	6	PC	94835	
32331	959064	XGW BO FOUNTAIN PLASTIC	2	8	SLV	94573	
32331	959065	XGW WIRE-GLASS CNDL HOLDER	1	4	PC	94836	
32331	959066	XGW WIRE-GLASS CNDL HOLDER	1	4	PC	94837	
32331	959068	XGW S3 CANDLE HOLDERS	1	6	PC	94838	
32331	959069	XGW HURRICANE CANDLEHOLDER	2	2	CS	94146	
32331	959070	XGW PIGGY BANK PINK	2	2	CS	94147	
32331	959073	XGW 11IN UL FOUNTAIN	2	6	SLV	94574	
32331	959078	XGW BANK SPORTS BALL	4	8	SLV	94575	
32331	959080	XGW TLITE HOLDER WOOD BASE	1	24	PC	94839	
32331	959083	XGW LEG LAMP 20IN	1	4	PC	94840	
32331	959084	XGW LEG LAMP NIGHT LIGHT	1	72	PC	94841	

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35594	959085	XGW LEG LAMP VOTIVE HOLDER	1	8	PC	94842	
35534	959087	XGW 12IN PORCELAIN DOLL	1	6	PC	94866	
36069	959092	XGW LAMP SEABED AQUARIUM	1	6	PC	94843	
36379	959097	XGW PHOTO FRAME WATERBALL	2	12	SLV	94576	
36379	959138	I-MOVE SPEAKER PILLOW	3	12	SLV	94526	
37240	959139	I-MOVE SPRT SPEAKER PILLOW	3	12	SLV	94527	
37251	959140	CHENILLE BOLSTER PILLOW	2	4	SLV	94546	
37261	959141	MARBLE SHAG BOLSTER PILLOW	2	4	SLV	94597	
37251	959142	HOLIDAY FLEECE THROW	4	24	SLV	94609	
37251	959143	HOLIDAY KITCHEN TOWEL	6	72	SLV	94661	
37251	959144	HOLIDAY TOWEL&POT HOLDER	2	48	SLV	94662	
37251	959145	FLEECE THROW SOLID/PRINT	6	24	SLV	94577	
37251	959146	XHW HIP FLASK 10Z	1	24	PC	94884	
37251	959148	XHW SNOWMAN MUG 16Z	3	24	SLV	94592	
37251	959150	XHW TURKEY PLATTER	1	6	PC	94890	
37251	959151	XHW SNOWMAN TIDBIT DISH	3	36	SLV	94593	
37251	959152	XHW SNOWMAN CREAM & SUGAR	1	24	PC	94847	
37487	959155	XHW HOT CHOCOLATE MUG 12Z	2	32	SLV	94591	
37487	959156	XHW HOT CHOCOLATE PITCHER	1	6	PC	94848	
37487	959158	XHW HOLIDAY COOKIE JAR	2	4	SLV	94500	
37487	959159	XHW CAKE AND PASTRY STAND	1	4	PC	94801	
37487	959161	XHW HOLIDAY COASTERS 4PC	1	24	PC	94859	
37487	959162	XHW CHARGER PLATES 4PK	1	6	PC	94824	
37487	959163	XHW DINNERWARE SET 16PC	1	2	PC	94828	
37487	959164	XHW BAR GIFT SET 4PC	1	24	PC	94881	
37487	959166	XHW MUG W/SPOON 16OZ	2	24	SLV	94666	
37487	959167	XHW BAR SET 6PC	1	12	PC	94865	
37591	959168	XHW TABLETOP CORKSCREW	1	8	PC	94802	
37726	959171	XHW MIXING BOWL SET 3PC	1	4	PC	94803	
37726	959172	XHW SERVING BOWL SET 5PC	1	4	PC	94805	
39972	959173	XHW CONDIMENT BOWL SET 7PC	1	4	PC	94807	
39972	959174	XHW SERVING DISH SET 6PC	1	4	PC	94804	
39982	959175	XHW GLASS BEV DISPENSER	1	4	PC		
35088	959176	XHW WINE DECANTER SET 6PC	1	3	PC	94889	
36254	959177	XHW SHOT GLASS SET 6PC	1	2	PC	94868	
38713	959178	XHW CHOC/CHS FONDUE 12PC	1	6	PC	94850	
35728	959179	XHW HOLIDAY DESSERT PLATE	3	36	SLV	94501	
35728	959180	XHW HOLIDAY MUG 14OZ	3	36	SLV	94503	
35728	959181	XHW PATCHWORK MUG 20OZ	2	24	SLV	94505	
35728	959271	XHD POINSETTIA SPRIG X 7	12	288	SLV	94502	
35728	959272	XHD HOLLY SPRIG X 7	6	288	SLV	94504	
35728	959273	XHD 3IN CNDL RING ICE BERRY	4	72	SLV	94506	
35728	959274	XHD 6IN CNDL RING ICEBERRY	4	48	SLV	94508	
35728	959275	XHD 6FT ICEBERRY GARLAND	2	24	SLV	94510	
35728	959276	XHD ICE BERRY SWAG	2	12	SLV	94512	
35728	959277	XHD ICE BERRY WREATH	2	6	SLV	94507	
35728	959278	XHD BERRY WREATH	1	6	PC	94806	
35728	959279	XHD 1IN BERRY CANDLE RING	6	240	SLV	94509	
35728	959280	XHD 3IN BERRY CANDLE RING	4	72	SLV	94511	
35728	959281	XHD 6IN BERRY CANDLE RING	4	48	SLV	94513	
35728	959282	XHD 6FT BERRY GARLAND	2	36	SLV	94515	
35728	959283	XHD BERRY SWAG	2	48	SLV	94547	
35728	959285	XHD POINSETTIA MIX WREATH	2	12	SLV	94514	
35728	959286	XHD 6FT GARLAND POINSETTIA	2	12	SLV	94516	
35728	959287	XHD POINSETTIA SWAG	2	48	SLV	94519	

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35728	959288	XHD 6FT POINSETTIA GARLAND	2	36	SLV	94517	
35728	959289	XHD 3I CANDLE RING POINSET	4	96	SLV	94521	
35728	959290	XHD POINSETTIA WREATH	2	12	SLV	94518	
35728	959291	XHD DLX POINSETTIA SPRIG	6	48	SLV	94520	
35728	959292	XHD POINSETTIA SPRIG X 16	6	60	SLV	94522	
35728	959294	XHD 7IN PVC TREE	6	72	SLV	94524	
35728	959295	XHD 6IN PVC TREE	6	72	SLV	94526	
35728	959297	XHD GATE ASST 6IN POLYRESIN	2	48	SLV	94523	
35728	959298	XHD LIGHTED HOUSE AST	1	6	PC	94808	
35728	959300	XHD LIGHTED CHURCH 11.75IN	1	4	PC	94810	
35728	959301	XHD LIGHTED HOUSE 9INH	1	4	PC	94812	
35728	959302	XHD LIGHTED HOUSE 8.5INH	1	4	PC	94809	
35728	959303	XHD LIGHTED HOUSE 8.5IN H	1	4	PC	94811	
35728	959304	XHD FIGURINE SCENES AST	12	72	SLV	94525	
35728	959305	XHD 120MM TRAIN WATERGLOBE	1	6	PC	94813	
35728	959306	XHD 100MM NATIVITY WATERGL	3	12	SLV	94527	
35728	959308	XHD SKATING POND W/MUSIC	1	8	PC	94814	
35728	959312	XHD CARRIAGE ASST POLYRESIN	2	36	SLV	94528	
35728	959313	XHD FIGURINE ASSTORTMENT	12	96	SLV	94530	
35728	959315	XHD HOLY FAMILY DECORATION	1	2	PC	94815	
35728	959317	XHD SNOWMAN WOOD LOOK 19IN	1	1	CS	94131	
35728	959318	XHD SANTA WOOD LOOK 19IN	1	1	CS	94133	
32960	959320	XHD HOUSE WATERGLOBE MUSIC	1	12	PC		
39972	959321	XHD SANTA FIGURINE AST	2	8	SLV	94604	
39972	959322	XHD XAMS PALS WREATH 10IN	3	24	SLV	94618	
39972	959325	XHD SNOWMAN FAMILY 12IN	2	6	SLV	94619	
39972	959326	XHD XMAS PALS WREATH 8IN	3	24	SLV	94620	
39972	959328	XHD SNOWMAN FAMILY WREATH	2	12	SLV	94621	
39972	959331	XHD CHOIR FIGURINES 8IN	2	24	SLV	94529	
39972	959332	XHD WREATH HOLDER 26IN	1	6	PC	94826	
39972	959337	XHD CERAMIC ANGEL 8.5IN	2	12	SLV	94603	
39972	959341	XHD ANGEL TREE TOP 12IN	2	12	SLV	94648	
38171	959342	XHD ANGEL TREE TOP 12IN	2	12	SLV	94646	
38171	959344	XHD ANIMATED WREATH 18IN	2	2	cs	94165	
38171	959346	XHD STEEL TREE DECORATION	2	36	SLV	94608	
38171	959347	XHD SANTA TABLE TOP 12IN	2	8	SLV	94645	
38171	959349	XHD FAMILY WALL DECOR 15IN	2	12	SLV	94692	
38171	959352	XHD SANTA FIGURINE 10IN	2	12	SLV	94531	
38171	959353	XHD CERAMIC ANGEL 7IN	1	24	pc	94855	
38171	959355	XHD REINDEER FIGURINE 12IN	2	8	SLV	94532	
38171	959356	XHD XMAS PALS WREATH 14IN	2	12	SLV	94607	
38171	959358	XHD FAMILY WREATH 13IN	2	12	SLV	94691	
38171	959359	XHD BEAR & SNOWMAN WREATH	2	12	SLV	94606	
38171	959362	XHD ANIMATED WREATH 13IN	2	12	SLV	94693	
38171	959363	XHD WOODEN SLEIGH 10IN	1	12	PC	94880	
38171	959369	XHD SNOWMAN FAMILY 14IN	1	6	PC	94698	
38171	959384	XHD 12IN WIRE & MESH TREE	2	12	SLV	94642	
38171	959385	XHD 9IN WIRE & MESH TREE	2	32	SLV	94639	
35542	959395	XHD SQUARE WREATH 16IN	2	8	SLV	94533	
35542	959398	XHD SANTA & SNOWMAN 13.5IN	2	8	SLV	94534	
35624	959400	XHD SNOWMAN & SANTA DECOR	2	12	SLV	94536	
35624	959404	XHD WATER BALL AST	6	144	SLV	94616	
35629	959405	XHD XMAS TREE PORCELAIN	1	24	PC	94816	
35629	959406	XHD XMAS TREE PORCELAIN	1	8	PC	94819	
35629	959407	XHD SNOWMAN T-LITE HLDR	2	12	SLV	94535	

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37643	959410	XHD SNOWMAN T-LITE HLDR	2	16	SLV	94537	
35341	959411	XHD BIRD T-LITE HLDR	1	18	PC	94817	
35694	959412	XHD BIRD T-LITE HLDR	1	12	PC	94820	
35694	959413	XHD BIRD T-LITE HLDR	1	8	PC	94822	
37693	959414	XHD ANGEL T-LITE HLDR	3	12	SLV	94538	
37693	959416	XHD NATIVITY SCENE	1	8	pc	94860	
37693	959417	XHD WATER GLOBE ASSORTMENT	2	12	SLV	94539	
37693	959418	XHD DEER DECORATION	2	6	SLV	94541	
39938	959422	XHD T-LITE CANDLE HOLDER W/	2	40	SLV	94540	
39938	959423	XHD DBL T-LITE CANDLE HLDR	2	24	SLV	94542	
39938	959424	XHD TRIPLE T-LITE CANDLE	2	24	SLV	94544	
39938	959431	XHD MOSAIC T-LITE HLDR AST	3	36	SLV	94622	
39972	959432	XHD LAMP T-LITE HLDR AST	3	12	SLV	94623	
35595	959433	XHD MOSAIC T-LITE HLDR AST	3	36	SLV	94624	
35595	959434	XHD MOSAIC T-LITE HLDR AST	3	72	SLV	94625	
32331	959439	XHD SANTA T-LITE HLDR 5IN	2	44	SLV	94595	
35236	959442	XHD 3 ANGEL T-LITE HLDR	1	18	PC	94849	
35236	959443	XHD NATIVITY SCENE T-LITE	1	12	PC	94851	
35351	959446	XHD XMAS WALL SIGN 16IN	2	12	SLV	94543	
35351	959448	XHD XMAS TREE 8IN FBR OPTIC	1	24	PC	94818	
35351	959449	XHD XMAS TREE 12IN FBR OP	1	24	PC	94821	
35367	959461	XHD NATIVITY WATEBALL DECO	2	36	SLV	94596	
35367	959462	XHD NATIVITY TABLE DECORAT	1	4	PC		
35426	959464	XHD WATERGLOBE ASSORTMENT	3	48	SLV	94545	
35635	959466	XWA GIFT BAG TRAPEZOID	8	288	SLV	94634	
36088	959467	XWA GIFT BAG JR CUB BASIC	8	288	SLV	94638	
37487	959468	XWA GIFT BAG GLITTER PHOTO	8	144	SLV	94635	
37676	959469	XWA GIFT BAG FOIL EMBOSSED	8	144	SLV	94637	
37676	959470	XWA GIFT BAG SOLID DIE CUT	8	144	SLV	94636	
37676	959471	XWA GIFT BAG LG FLOCKED	8	144	SLV	94635	
38161	959472	XWA GIFT BAG DIE-CUT TOP	8	144	SLV	94634	
39972	959473	XWA GIFT BAG JUMBO HANDLED	8	144	SLV	94633	
39982	959474	XWA FIDDLESTIX GIFT BAG	8	144	SLV	94632	
32331	959475	XWA 50SHEET TISSUE COMBO	1	24	SLV	94631	
35530	959476	XWA GIFT BAG TRAPEZOID	8	144	SLV	94631	
35530	959477	XWA GIFT BAG TALL FOIL	8	144	SLV	94630	
35530	959628	XHD WREATH HANGER ADJUSTA	1	24	PC	94823	
35530	959541	XTT BO LED CANDLE 2PK	1	48	PC	94825	
35530	959790	XTT BO 2IN VOTIVE CANDLE	1	48	PC	94826	
35630	959807	XWA MINI GIFT TAGS 12CT	8	32	SLV	94629	
35713	959826	XTT ROBE GIFTBOX TRADTIONAL	5	25	SLV	94854	
31928	959832	XTP DORA & DIEGO GAME AST	1	4	pc	94878	
35126	959833	XTP B/O PHONIC KEYBOARD	1	6	pc	94846	
35425	959838	XTP FUNNY VEHICLES	1	24	pc	94847	
35425	959839	XTP NOAHS ARK PLAYSET	1	8	pc	94853	
35425	959841	XTP RIDE ON TOY	1	6	pc	94869	
35425	959842	XTP 49KEYS KEYBOARD	1	6	pc	94871	
35425	959843	XTP ELECTRONIC DRUM TRY ME	1	12	pc	94873	
35425	959844	XTP HIP HOP GUITAR TRY ME	1	6	pc	94883	
35425	959846	XTP GLASS CHESS & CHECKER	1	8	pc	94870	
35425	959850	XTP B/O AIR HOCKEY	1	12	pc	94896	
35425	959852	XTP ATM BANK TRY ME	1	12	pc	94897	
35425	959853	XTP BILINGUAL LAPTOP	1	24	pc	94876	
35425	959854	XTP B/O PRESS AND LEARN	1	48	pc	94879	
35426	959855	XTP ALPHABET MACHINE	1	24	pc	94877	

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35425	959856	XTP DJ STATION TRY ME	1	24	pc	94875	
35449	959858	XTP ZILLIONAIRE BANK VAULT	1	12	pc	94872	
	960061	XHD 2PC CANDLE WARMER CER	2	12	slv	94615	
35713	960164	TURNTABLE & AM/FM STEREO	1	2	PC	94991	
36176	960168	ALARM CLOCK DRAG RACING	1	12	PC	94844	
36176	960171	CLOCK WACKY WAKER DUCK	1	36	PC	94888	
36176	960182	CUBE CLOCK RADIO W/IPOD	1	12	PC	94845	
36176	974668	XCD GLSS TEALGHT HOLDR 3PK	6	24	SLV	94579	
36176	974673	XCD OVAL GLSS FILLD 10Z	6	24	SLV	946607	
36176	974675	XCD 5Z FILLD FRSTD GLSS	6	24	SLV	94607	
36176	974677	XCD LG RND TIN CANDLE	6	12	SLV	941608	
36176	974678	XCD CHUNK PILLR ON PLATE	6	12	SLV	941624	
36176	974679	XCD 5PC GLSS VOTIVE SET	3	24	SLV	941669	
36176	974681	XCD WAX POTPOURI MELTR SET	6	24	SLV	941699	LM24
36176	974683	XCD 12CT CNDLS OF CHRSTMAS	2	12	SLV	94655	
36176	974688	XCD CNDYCANE PILLR ON PLATE	1	8	PC	94840	
36176	974691	XCD TOP CUT OFF BALL CANDL	2	12	SLV	941678	
36176	974692	XCD 3.5 TRITONE RND BALL	2	12	SLV	941679	
36176	974694	XCD 3X4 RND TRITONE PILLAR	2	24	SLV	941675	
36176	974695	XCD 4X4 RND TRITON PILLAR	2	16	SLV	941680	
36176	974697	XCD FRSTD JAR CANDLE 12Z	6	12	SLV	94607	
36176	974698	XCD 3X6 RND COLDPOUR PILLR	6	24	SLV	941676	
36176	974699	XCD 3X3 COLD POUR PILLAR	6	24	SLV	941673	
36176	974700	XCD MASON JAR 11Z FILLED	6	12	SLV	941679	
36176	974701	XCD FRSTED CANDLE W/SHADE	6	24	SLV	941680	
36176	974702	XCD ROUND TRAVEL TIN 5OZ	12	36	SLV	94681	
36176	974708	XCD HOL WRAP CNDL 3X6PILLR	4	24	SLV	94584	
36176	974709	XCD PEPPRNMT VOTIVE N CUP	12	24	SLV	94587	
36176	974722	XCD PEPPERMINT MINIPILLR2X2	6	24	SLV	94582	
36176	974723	XCD PEPPRMNT MINI PILLR2X4	6	24	SLV	94590	
36176	974724	XCD 3X6 PEPPERMINT PILLAR	2	24	SLV	941682	
36176	974725	XCD 3X3 PEPPERMINT PILLAR	2	24	SLV	941681	
36176	974727	XCD 3PK FROSTED GLASS 4Z	2	12	SLV	94583	
36980	974728	XCD 3VOTIVES/GLASS HOLDER	2	12	SLV	94591	
36980	974729	XCD CLRD FILLED CNDLE 7Z	4	24	SLV	941684	
36980	974731	XCD TRI LAYER JAR 18Z	6	12	SLV	941685	
36980	974732	ACD 10Z DECORATOR JAR	6	18	SLV	941686	
36980	974733	XCD CLRD PARTY VOTIVE4PK	6	12	SLV	941683	
36980	974735	XCD LG RND 3WICK TIN 30Z	3	12	SLV	94580	
36980	974737	XCD TEALIGHTS 16PK	6	36	SLV	94588	
36980	974739	XCD MINI JAR4Z FRSTD W/LID	6	36	SLV	941688	
38171	974741	XCD 3X6 RND TRITONE PILLR	2	24	SLV	941689	
	974797	XGW FRENCH VANILLA CNDL	1	8	pc	94856	
	974799	XGW RASBERRY MOCHA CNDL S	1	8	pc	94854	
	974801	XGW COFFEE CUP VOTIVES	2	6	slv	94609	
	974803	XGW SPINNING TV ORGANIZER	2	12	slv	94599	
	974804	XGW DIAMOND KEYCHAIN RING	2	12	slv	94602	
	974805	XGW DIGITAL COIN JAR	2	12	slv	94601	
	974810	XGW TALK POPUP PUTTNGCUP	2	12	slv	94612	
	974811	XGW SWEATER DEFUZZER	2	72	slv	94600	
	974812	XGW ANIMAL MASSAGER ASST	2	36	slv	94613	
	974813	XGW THER SHARP SHOOTER	2	16	slv	94611	
	974818	XGW CUP HLDR CAR ORGANIZR	2	36	slv	94614	
38171	974838	XCD VOTIVE 5PACK	6	36	SLV	94589	
38171	974839	XCD 10IN RED TAPERS UNS	12	96	SLV	94656	

TECHNICAL MEMORANDUM

TO:	Jill Fonte, Lockheed Martin	cc:	Myron Parkolap – Lockheed Martin Ginny Robbins – BSK Mark Distler – OBG
FROM:	Eric Alongi, OBG		
RE:	September 2015 VI Results Former GE Farrell Road Site		
FILE:	5851/50238		
DATE:	December 11, 2015		

This Technical Memorandum (TM) presents the results of sampling conducted at the former GE Farrell Road Site (Site) on September 23, 2015. The sampling was performed in accordance with a Vapor Intrusion (VI) Sampling Work Plan (WP), dated August 20, 2015. The New York State Department of Environmental Conservation (NYSDEC) approved the WP, with modifications, in a letter dated September 3, 2015. A letter from O'Brien & Gere (OBG), dated September 9, accepted the NYSDEC modifications and provided a revised proposed sampling location map. This TM also evaluates the data with respect to the potential for VI, and provides recommendations for follow-on actions.

1. BACKGROUND

1.1 SITE BACKGROUND

The Site consists of 156 acres in an industrial zone setting located on Farrell Road and John Glenn Boulevard in the Town of Geddes, northeast of Routes 690 and 90 and south of the Seneca River. Nearly half of the Site (81 acres) is classified as a Class I wetlands. Ground water flows in a north/northwest direction across the Site toward Seneca River. Depth to ground water in the developed portion of the Site is approximately ten feet below ground surface (bgs). The developed portion of the Site is paved and contains four on-Site buildings; Buildings 1 and 2, former test building, and maintenance garage. Figure 1 shows Buildings 1 and 2.

There are three primary historic source areas relevant to vapor intrusion potential at the Site, referred to as areas of concern (AOC), where interim remedial measures (IRMs) were implemented.[1] The following identifies the location (also shown on **Figure 1**) and gives a description of each AOC:

- AOC 5, located along the west side of Building 2, was an area where nine underground storage tanks (USTs) and a dry well were removed.
- AOC 7, located along the east side of Building 2, was an area of a former fuel oil UST and where drums containing Freon were rinsed.
- AOC 16, located adjacent to the maintenance garage, was an area of a former gasoline UST.

Currently the Site is classified as Class 4 on the New York State Registry of Inactive Hazardous Waste Disposal Sites, based on the effectiveness of the IRMs. A ground water extraction and treatment system (currently shut down) at the Site has been deemed effective at controlling off-site migration of shallow contaminated ground water. Concentrations of VOCs in ground water are periodically measured from samples collected from monitoring wells located at the Site.

1.2 VAPOR INTRUSION SAMPLING BACKGROUND

In response to a request by the NYSDEC in August 2006, Lockheed Martin Corporation (LMC) conducted sampling at Building 2 to assess the potential for vapor intrusion. LMC retained OBG to conduct the vapor intrusion sampling, which was performed in February 2007 for the 2006-2007 heating season. The results of the sampling were summarized in a technical memorandum in May 2007, in which further monitoring for TCE and

[1] Note that there were other AOCs at the Site where some remedial work was completed, but they are not considered relevant to this investigation.

1,1-DCE was recommended for two of the five sampling locations. Further monitoring was conducted in December 2007 for the 2007-2008 heating season, the results of which were reported by OBG in a technical memorandum in February 2008. Additional sampling was recommended at two locations to confirm the results.

The recommended additional sampling was conducted in December 2008 for the 2008-2009 heating season and results were summarized in a technical memorandum in March 2009. Based on the sample results, and in conformance with NYSDOH's two soil vapor / indoor air matrices, OBG recommended that annual inspections be conducted to identify slab breaches and building modifications that could increase the potential for sub-slab vapors to intrude. NYSDEC approved the annual inspection approach in a December 9, 2009 letter from Javier Perez of NYSDEC to Myron Parkolap of LMC. NYSDEC also informed LMC that additional investigation may be necessary when the building's occupancy changes. Since 2009, OBG has conducted and reported annual slab inspections and findings to NYSDEC. From 2007 to present, the light warehousing use of Building 2 has not changed.

The current owner of the property (Widewaters Group, Inc.) tentatively contracted with two separate tenants to occupy Building 2, with occupancy to begin in the fourth quarter of 2015, or first quarter of 2016. Specific activities to be conducted in the tenant spaces for Building 2 were not provided; however, warehousing and light to moderate manufacturing was anticipated. The layout of the proposed tenant spaces are illustrated in **Figure 2**.

The property owner has also contracted with tenants to occupy the former maintenance garage. Two of the three tenant spaces in the garage have already been occupied by a lawn care/snow removal business and a trailer washing and brake repair business that sublets a portion of its space to car enthusiasts and hobbyists that maintain their vehicles in their spare time.

As a result of the sites' anticipated change of use and at the request of NYSDEC to LMC, OBG conducted vapor intrusion sampling within Building 2 and the maintenance garage to acquire updated soil vapor data for the site. The following describes the sampling.

2. VAPOR INTRUSION SAMPLING

Vapor intrusion sampling was conducted on September 23, 2015. Samples of sub-slab vapor, indoor air, and ambient air were collected over an 8-hour period. Samples were collected in accordance with the NYSDEC approved WP, and Mr. Joshua Cook of NYSDEC was present during a portion of the on-Site activities.

2.1 SAMPLING LOCATIONS

The number of samples was selected to assess spatial variability of sub-slab soil vapor across the slabs of Building 2 and the former maintenance garage. In NYSDEC's September 3, 2015 approval letter they referenced use of the New Jersey Department of Environmental Protection VI guidance that recommends the number of samples based on the area of the slab. Given that Building 2's slab area is ~300,000 square feet and the former garage is ~8,000 square feet, the guidance recommends 10 sub-slab soil vapor samples be collected in Building 2, and four be collected in the former garage, depending on several factors. One of the factors pertinent to Building 2 is the presence of enclosed areas within the larger manufacturing and storage areas of both proposed tenant spaces. **Figure 2** shows the anticipated enclosed areas as identified by the current property owner.

Figure 3 shows the number and locations of the sampling. Building 2 samples were collected in the four largest enclosed areas, along the north end of the building where soil vapor has been found to be highest, and other locations to provide spatial representation. The total number of sample locations, included previously sampled ones, is 11.

There are three separate areas within the former garage (as shown on **Figure 3**). The north end area was vacant during the time of sampling. Therefore, samples were collected in the two occupied areas. Although the total number of sample locations (2) is less than recommended, sampling in the former garage was expected to be

significantly impacted by indoor air sources of the same petroleum related compounds that could possibly be found in soil vapor.

In summary, OBG collected a total of 10 sets of samples (each set consisting of one sub-slab sample and one indoor air sample) from within Building 2 and the former maintenance garage, at locations shown in **Figure 3**. One ambient air sample was collected upwind of both buildings, simultaneously with the sub-slab/indoor air samples.

2.2 SAMPLE COLLECTION METHODOLOGY

Samples were collected in accordance with the NYSDEC-approved WP. Sub-slab samples were collected through temporary or permanent sampling points in the concrete floor and in batch-certified clean 6-liter pre-evacuated canisters.

The indoor air and ambient air samples were collected in individually-certified clean 6-liter pre-evacuated canisters. All samples were collected over an 8-hr period.

Sample Analysis

Samples (canisters) were delivered to a laboratory that is certified by the Environmental Laboratory Approval Program (ELAP) and certified by New York State Department of Health (NYSDOH) for USEPA Method TO-15 under routine Chain-of-Custody protocols. The samples were analyzed for standard compounds via USEPA Method TO-15.

Quality Assurance/Quality Control

One duplicate sample of sub-slab vapor was collected to assess overall precision. No trip or equipment blanks were collected. Prior to and following collection of sub-slab samples, a helium tracer gas was used to verify the integrity of the seal between the sample tubing and concrete floor. Analytical QA/QC requirements of USEPA Method TO-15 were followed by the laboratory. Data was validated and a data usability summary report (DUSR) was prepared and included in this TM in **Attachment 1**.

3. SAMPLING RESULTS AND DATA EVALUATION

Sample results for each set of samples (sub-slab and indoor air) are presented in **Table 1** for each sample location. Results are presented in units of micrograms per cubic meter ($\mu g/m^3$). Only compounds that were detected in samples above their respective reporting limits are included in **Table 1**. Laboratory data reports are provided as **Attachment 2** and copies of completed field forms are provided as **Attachment 3**.

Figure 4 shows the sub-slab soil vapor and indoor air results of the seven NYSDOH Matrix compounds and their location within the buildings. The NYSDOH matrix compounds are presented below:

- 1,1-dichloroethene (1,1-DCE)
- carbon tetrachloride (CT)
- 1,1,1-trichloroethane (1,1,1-TCA)
- cis-1,2-dichloroethane (cis-1,2-DCA)
- trichloroethene (TCE)
- tetrachloroethene (PCE)
- vinyl chloride (VC)

3.1 DATA EVALUATION

The sample results were evaluated to assess:

- spatial variability of sub-slab soil vapor across the slab,

- if there have been changes to indoor air quality related to VI since previous sampling events,
- if indoor air concentrations were attributable to vapor intrusion,
- if indoor air concentrations are above typical background levels for commercial buildings; and
- if sub-slab and indoor air concentrations require any follow-on actions as recommended by NYSDOH's two soil vapor/indoor air matrices.

Maintenance Garage

Two sub-slab soil vapor/indoor air sample pairs were collected in the occupied spaces of the maintenance garage. As can be seen in **Figure 4**, 1,1,1-TCA, TCE and PCE were detected in both sub-slab soil vapor samples. The highest sub-slab soil vapor concentration for a NYSDOH matrix compound was 340 µg/m^3 for TCE at location -02. The corresponding indoor air concentration of TCE at location -02 was 0.23 µg/m^3.

The second highest NYSDOH matrix compound detected in sub-slab soil vapor was 1,1,1-TCA at 17 µg/m^3 at location -01. The corresponding indoor air concentration of 1,1,1-TCA at location -01 was found below the analytical detection limit of 1.1 µg/m^3. PCE was detected in sub-slab soil vapor at location -01 at 15 µg/m^3 and the corresponding PCE indoor air concentration at location -01 was 0.5 µg/m^3.

CT was detected in both indoor air samples at 0.59 µg/m^3 (location -01) and 0.47 µg/m^3 (location -02). CT was not detected in the sub-slab soil vapor samples above their respective reporting limits. The indoor air concentrations of CT are attributable to ambient air concentrations; the ambient air concentration for CT was 0.50 µg/m^3. 1,1-DCE, cis-1,2-DCE and VC were not detected above respective detection limits in sub-slab soil vapor or indoor air samples collected at either location.

There were indoor air detections for benzene, toluene, ethylbenzene, and xylene; however, corresponding sub-slab soil vapor concentrations were lower than respective indoor air concentrations. Indoor air concentrations of these petroleum related compounds are impacted by indoor air sources within the garage and do not appear to be attributable to VI.

Strict interpretation of NYSDOH matrices would recommend mitigation because the sub-slab soil vapor concentration for TCE at location -02 is above 250 µg/m^3. If VI were occurring, the indoor air level of 0.23 µg/m^3 would suggest an attenuation factor across the slab in the order of 10^{-3}, which is more indicative of a slab with some cracks or other breaches that allow soil vapor to intrude. The attenuation factor would also indicate the presence of negative indoor air pressure, often caused by exhausting indoor air to the outdoors that can pull soil vapor across a competent slab. However, neither condition exists in the garage; the slab has no breaches and the space is not under negative pressure. Therefore, the one detection of TCE in indoor air is not likely attributable to VI and is more likely attributable to indoor sources associated with vehicle maintenance. Nonetheless, the indoor air TCE concentration at location -02 is below NYSDOH's newly revised air guideline value for TCE of 2.0 µg/m^3, and below typical indoor air background levels[2] of 4.2 µg/m^3.

Building 2

Eight sub-slab soil vapor /indoor air samples pairs were collected in Building 2. As can be seen in **Figure 4**, there were detections of matrix compounds in the northeast portion of Tenant space 1 at locations -03, -06, and -07; however, comparison of the sub-slab soil vapor/indoor air concentrations with respect to NYSDOH matrices would recommend that no further action is necessary at these sample locations.[3]

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[2] Defined by the NYSDOH SVI guidance document as the 90th percentile for office and commercial buildings database, provided in Appendix C.2.

[3] Carbon tetrachloride was detected in all indoor air samples and the ambient air sample at the same level, and therefore all carbon tetrachloride indoor air detections are assumed to be attributable to outdoor (background) sources and not from vapor intrusion.

There were low detections of some matrix compounds in sub-slab soil vapor and indoor air at location -10. Comparison of the results with the NYSDOH matrices would recommend no further action for all matrix compounds except for 1,1-DCE and 1,1,1-TCA, for which the matrices recommend identification and removal of the indoor sources. However, there are no indoor sources of 1,1-DCE or 1,1,1-TCA within Building 2. Vapor intrusion of these compounds appears to be occurring at other locations in Tenant space 2 (as discussed below), which is likely contributing to the indoor air detections at location -10.

Location -04 (easternmost portion of Tenant space 1) coincides with a sample location sampled during previous sample events in February 2007, December 2007, and December 2008. During these previous sample events, indoor air concentrations of TCE and 1,1-DCE ranged from 0.32 µg/m^3 to <0.90 µg/m^3 and 1.0 µg/m^3 to 3.6 µg/m^3, respectively. The 2015 sample results indicate no change to indoor air concentrations of TCE or 1,1-DCE, despite the increased TCE sub-slab soil vapor concentration from 550 µg/m^3 in December 2008 to 1,100 µg/m^3 in 2015. Strict interpretation of the 2015 results with the NYSDOH matrices suggest that monitoring or mitigation are warranted for location -04, however the detections of 1,1-DCE and 1,1,1-TCA in the indoor air are not likely associated with soil vapor intrusion from this location but from other locations in the building, as discussed below.

Elevated sub-slab soil vapor concentrations were found at locations -05 and -08. The highest sub-slab and indoor air concentrations of TCE and 1,1-DCE were found at location -05. The highest sub-slab concentration of 1,1,1-TCA was found at location -08 but did not correspond with the highest indoor air level of 1,1,1-TCA, which was found at location -09.

Strict interpretation of the NYSDOH matrices would recommend monitoring or mitigation due to sampling results at locations -05, -08, and -09 for at least two of three compounds: 1,1-DCE, 1,1,1-TCA, and TCE. A brief summary of these detections and calculated attenuation factors are presented below:

Summary of Select Matrix Compounds and Attenuation Factors for Locations -05, -08, and -09

	Location -05			Location -08			Location -09		
Analyte	**Sub-Slab**	**Indoor Air**	**AF**	**Sub-Slab**	**Indoor Air**	**AF**	**Sub-Slab**	**Indoor Air**	**AF**
1,1-DCE	76,000	6.8	8.9×10^{-5}	17,000	2.7	1.6×10^{-4}	1.1	4.6	4.2
1,1,1-TCA	190	4.2	2.2×10^{-2}	20,000	2.6	1.3×10^{-4}	280	5.8	2.1×10^{-2}
TCE	2,400	0.26	1.1×10^{-4}	68	0.22	3.2×10^{-3}	55	0.25	4.5×10^{-3}

Results reported are in units of µg/m^3
AF – Attenuation Factor = (indoor air concentration / sub-slab soil vapor concentration)

The lowest attenuation factors shown above are on the order of 10^{-4}, which is typical for slabs in good condition. Therefore, it is possible that vapor intrusion is primarily occurring for 1,1-DCE at locations -05 and -08, for 1,1,1-TCA at location -08, and for TCE at location -05. The somewhat elevated indoor air levels of these compounds at location -09 without corresponding elevated sub-slab levels is attributable to vapor intrusion occurring at locations -05 and -08 and to the lower natural ventilation that likely occurs at the south end of Building 2 which is further away from building openings in the north end (gaps in the walls and loading dock doors).

The significant differences in sub-slab levels at locations -05 and -08 compared to the nearest other sampling locations, approximately 200 feet away, suggest the sources of soil vapor are small in size and do not represent a typical groundwater plume. Each location -05 and -08 are proximate to former AOCs where impacted soil was removed from the site. It is likely that the presence of soil vapor under Building 2 are small areas of impacted soil that could not be excavated during the AOC remediation.

Although sample results suggest that vapor intrusion is occurring, the slab is in overall good shape and the impact to indoor air concentrations is below levels of health concern. Indoor air concentrations of 1,1-DCE, 1,1,1-TCA, and TCE are below their respective guidance concentrations or matrix action levels (100 µg/m^3 for

1,1-DCE and 1,1,1-TCA and 2.0 µg/m^3 for TCE), and are below USEPA Regional Screening Levels for commercial inhalation (880 µg/m^3 for 1,1-DCE, 22,000 µg/m^3 for 1,1,1-TCA, and 3 µg/m^3 for TCE). Therefore, immediate action to mitigate the indoor air levels is not warranted.

4. RECOMMENDATIONS AND FURTHER ACTIONS

The following provides recommendations for further actions based upon the September 2015 sample results evaluations presented above.

4.1 MAINTENANCE GARAGE

Given that vapor intrusion does not appear to be occurring in the garage, that indoor air levels are below levels of health concern, and that the slab is in good condition, we do not recommend mitigation but rather annual slab inspections. If slab conditions change in the future then additional indoor air sampling and/or slab sealing may be warranted. The initial slab inspection can be conducted in the heating season of 2016/2017.

We also recommend one more round of sampling in the heating season to discern if there is a seasonal variability in soil vapor levels, as has been studied and shown in many other cases. We recommend another sub-slab and indoor sample pair at location -02 and another pair in the previously vacant space on the north end of the garage where we recently learned that it is now being occupied, primarily for storage.

4.2 BUILDING 2

Given that vapor intrusion appears to be occurring for three compounds, that the sources of the soil vapor appear to be small in size and located near locations -05 and -08, and that measured indoor air levels are below levels of health concern, mitigation of the sources may be warranted as a means to protect against possible future increased vapor intrusion if slab conditions were to change. Mitigation is most effectively achieved via sub-slab depressurization (SSD), where practical. A single suction point and single fan system would be practical if installed at each location -05 and -08 (one system per location). After operation of each system for approximately four weeks, indoor air sampling should be conducted to assess if the indoor air concentrations are reduced. If reduced, then the systems would appear to be effective and that the systems should continue to operate as protection against future vapor intrusion. If not reduced, then additional investigation for other soil vapor sources may be warranted.

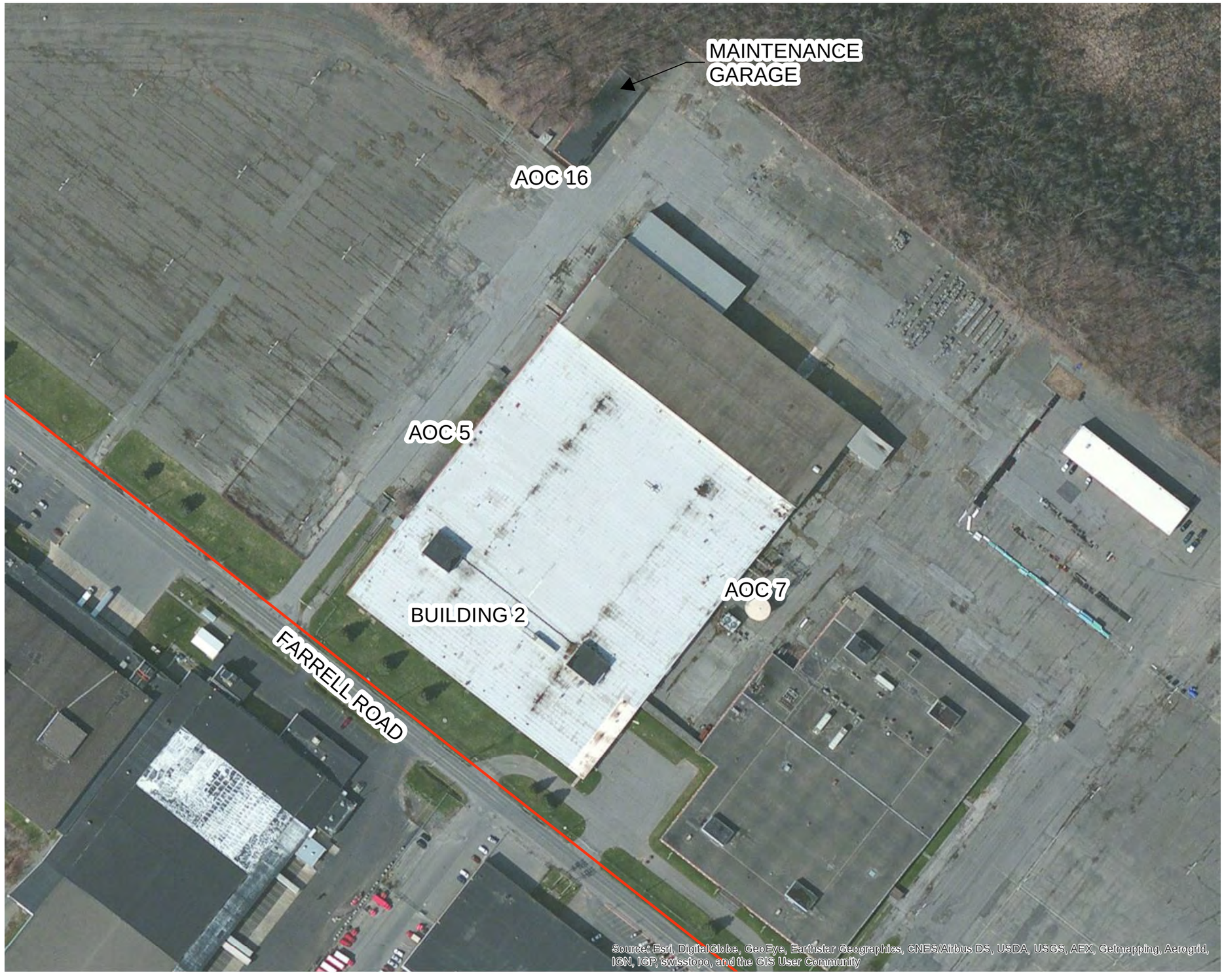
We also recommend one more round of sampling in the heating season (before mitigation installation) to discern if there is a seasonal variability in soil vapor levels, as well as in indoor air levels since their variability is important to understand because of their use in evaluating mitigation system effectiveness. We recommend another sub-slab and indoor sample pair at locations -04, -05, -08, -09, and -10 (each location where the NYSDOH matrices recommended some follow-on action).

Attachments:
Table 1 – Summary of VOC Results
Figure 1 – Site Layout
Figure 2 – Proposed Tenant Floor Plan
Figure 3 – Sampling Locations
Figure 4 – Sampling Results
Attachment 1 – Data Usability Summary Report
Attachment 2 – Laboratory Reports
Attachment 3 – Completed Field Data Forms

FORMER GE FARRELL ROAD SITE - SUMMARY OF VOC RESULTS

Sample ID	FR-AA-092315	FR-IA01-092315	FR-SS01-092315	FR-IA02-092315	FR-SS02-092315	FR-IA03-092315	FR-SS03-092315	FR-IA04-092315	FR-SS04-092315	FR-IA05-092315	FR-SS05-092315	FR-IA06-092315	FR-SS06-092315	FR-IA07-092315	FR-SS07-092315	FR-IA08-092315	FR-SS08-092315	FR-IA09-092315	FR-SS09-092315	FR-IA10-092315	FR-SS10-092315
Sample Location	Ambient	Indoor Air - 01	Sub-Slab - 01	Indoor Air - 02	Sub-Slab - 02	Indoor Air - 03	Sub-Slab - 03	Indoor Air - 04	Sub-Slab - 04	Indoor Air - 05	Sub-Slab - 05	Indoor Air - 06	Sub-Slab - 06	Indoor Air - 07	Sub-Slab - 07	Indoor Air - 08	Sub-Slab - 08	Indoor Air - 09	Sub-Slab - 09	Indoor Air - 10	Sub-Slab - 10
Sample Date	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015
Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,1,1-Trichloroethane	1.1 U	1.1 U	17	1.1 U	4.1 J	0.55 J	52	0.32 J	110	4.2	190	1.8	74	2.2	48	2.6	20000 D	5.8	280	3.3	34
1,1-Dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	3.2 U	0.76 J	0.79 U	0.57 J	20	6.8	76000 D	1.9	0.79 U	2.1	4 U	2.7	17000 D	4.6	1.1 J	3.3	1.6 U
cis-1,2-Dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	3.2 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	140 U	0.79 U	0.79 U	0.79 U	4 U	0.79 U	31 U	0.79 U	1.6 U	0.79 U	1.6 U
Carbon tetrachloride	0.5	0.59	0.25 U	0.47	1 U	0.58	0.74	0.39	2.5 U	0.6	44 U	0.58	0.54	0.53	1.3 U	0.59	9.9 U	0.73	0.5 U	0.58	0.5 U
Tetrachloroethene	1.4 U	0.56 J	15	1.1 J	3.5 J	1.4 U	0.37 J	1.4 U	17	0.43 J	240 U	0.29 J	6.1	0.35 J	0.8 J	0.37 J	42 J	0.52 J	2.5 J	0.51 J	1.6 J
Trichloroethene	0.21 U	0.21 U	11	0.23	340	0.26	1.1	0.21 U	1100	0.26	2400	0.21 U	0.77	0.21 U	1.1 U	0.22	68	0.25	55	0.22	4.1
Vinyl chloride	0.1 U	0.1 U	0.1 U	0.1 U	0.41 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U	18 U	0.1 U	0.1 U	0.1 U	0.51 U	0.1 U	4 U	0.1 U	0.2 U	0.1 U	0.2 U
1,1,2,2-Tetrachloroethane	1.4 U	1.4 U	1.4 U	1.4 U	5.5 U	1.4 U	1.4 U	1.4 U	14 U	1.4 U	240 U	1.4 U	1.4 U	1.4 U	6.9 U	1.4 U	54 U	1.4 U	2.7 U	1.4 U	2.7 U
1,1,2-Trichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	4.4 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	190 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U	43 U	1.1 U	2.2 U	1.1 U	2.2 U
1,1-Dichloroethane	0.81 U	0.81 U	0.81 U	0.81 U	3.2 U	0.23 J	0.81 U	0.14 J	8.1 U	2.3	17000	0.66 J	0.81 U	0.62 J	4 U	0.91	7000 E	1.5	6.5	0.99	1.6 U
1,2,4-Trichlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	15 U	3.7 U	3.7 U	3.7 U	37 U	3.7 U	650 U	3.7 U	3.7 U	3.7 U	19 U	3.7 U	150 U	3.7 U	7.4 U	3.7 U	7.4 U
1,2,4-Trimethylbenzene	0.98 U	6.6	0.32 J	56	3.2 J	0.41 J	0.98 U	0.34 J	9.8 U	1.7	170 U	0.61 J	0.3 J	0.77 J	4.9 U	1.1	39 U	1.8	2 U	1.1	2 U
1,2-Dibromoethane	1.5 U	1.5 U	1.5 U	1.5 U	6.1 U	1.5 U	1.5 U	1.5 U	15 U	1.5 U	270 U	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	61 U	1.5 U	3.1 U	1.5 U	3.1 U
1,2-Dichlorobenzene	1.2 U	1.2 U	1.2 U	1.2 U	4.8 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U	210 U	1.2 U	1.2 U	1.2 U	6 U	1.2 U	47 U	1.2 U	2.4 U	1.2 U	2.4 U
1,2-Dichloroethane	0.81 U	0.81 U	0.81 U	0.81 U	3.2 U	0.47 J	0.81 U	0.27 J	8.1 U	2.8	130 J	1.6	0.81 U	2.2	4 U	2.1	32 U	3.9	1.6 U	4.6	1.6 U
1,2-Dichloroethene, Total	1.6 U	1.6 U	1.6 U	1.6 U	6.3 U	1.6 U	1.6 U	1.6 U	16 U	1.6 U	280 U	1.6 U	1.6 U	1.6 U	7.9 U	1.6 U	63 U	1.6 U	3.2 U	1.6 U	3.2 U
1,2-Dichloropropane	0.92 U	0.92 U	0.92 U	0.92 U	3.7 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	160 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	37 U	0.92 U	1.8 U	0.92 U	1.8 U
1,2-Dichlorotetrafluoroethane	1.4 U	1.4 U	1.4 U	1.4 U	5.6 U	1.4 U	1.4 U	1.4 U	14 U	1.4 U	250 U	1.4 U	1.4 U	1.4 U	7 U	1.4 U	55 U	1.4 U	2.8 U	1.4 U	2.8 U
1,3,5-Trimethylbenzene	0.98 U	2.5	0.98 U	14	1.3 J	0.98 U	0.98 U	0.98 U	9.8 U	0.42 J	170 U	0.98 U	0.98 U	0.25 J	4.9 U	0.35 J	39 U	0.55 J	2 U	0.26 J	2 U
1,3-Butadiene	0.44 U	0.44 U	0.44 U	0.44 U	1.8 U	0.44 U	0.44 U	0.44 U	4.4 U	0.44 U	78 U	0.44 U	0.44 U	0.44 U	2.2 U	0.44 U	17 U	0.44 U	0.88 U	0.44 U	0.88 U
1,3-Dichlorobenzene	1.2 U	1.2 U	1.2 U	1.2 U	4.8 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U	210 U	1.2 U	1.2 U	1.2 U	6 U	1.2 U	47 U	1.2 U	2.4 U	1.2 U	2.4 U
1,4-Dichlorobenzene	1.2 U	1.2 U	1.2 U	1.2 U	4.8 U	1.2 U	1.2 U	1.2 U	12 U	0.41 J	210 U	1.2 U	1.2 U	0.36 J	6 U	0.44 J	47 U	0.44 J	2.4 U	0.43 J	2.4 U
1,4-Dioxane	18 U	18 U	18 U	18 U	72 U	18 U	18 U	15 J	180 U	18 U	3200 U	18 U	18 U	18 U	90 U	18 U	710 U	18 U	36 U	18 U	36 U
2,2,4-Trimethylpentane	0.93 U	50	0.2 J	54	3.7 U	0.68 J	0.25 J	0.51 J	9.3 U	2	160 U	1.1	0.42 J	0.97	4.7 U	1.5	37 U	2.2	0.83 J	1.5	1.9 U
2-Chlorotoluene	1 U	1 U	1 U	1 U	4.1 U	1 U	1 U	1 U	10 U	1 U	180 U	1 U	1 U	1 U	5.2 U	1 U	41 U	1 U	2.1 U	1 U	2.1 U
3-Chloropropene	1.6 U	1.6 U	1.6 U	1.6 U	6.3 U	1.6 U	1.6 U	1.6 U	16 U	1.6 U	280 U	1.6 U	1.6 U	1.6 U	7.8 U	1.6 U	62 U	1.6 U	3.1 U	1.6 U	3.1 U
4-Ethyltoluene	0.98 U	4	0.98 U	12	3.9 U	0.98 U	0.98 U	0.98 U	9.8 U	0.41 J	170 U	0.98 U	0.98 U	0.98 U	4.9 U	0.33 J	39 U	0.41 J	2 U	0.21 J	2 U
4-Isopropyltoluene	1.1 U	1.1 U	1.1 U	7.2	4.4 U	1.1 U	1.1 U	1.1 U	11 U	0.53 J	190 U	0.2 J	1.1 U	0.35 J	5.5 U	0.47 J	43 U	0.74 J	2.2 U	0.55 J	2.2 U
Acetone	8.9 J	21	41	51	17 J	11 J	10 J	34	33 J	26	2100 U	17	17	16	59 U	29	470 U	49	14 J	22	21 J
Benzene	0.28 J	39	3.5	20	2.7	1	0.4 J	0.83	1.5 J	2.3	44 J	1.5	0.74	1.4	3.2 U	1.8	25 U	2.7	1.1 J	2.4	1.2 J
Benzyl chloride	1 U	1 U	1 U	1 U	4.1 U	1 U	1 U	1 U	10 U	1 U	180 U	1 U	1 U	1 U	5.2 U	1 U	41 U	1 U	2.1 U	1 U	2.1 U
Bromodichloromethane	1.3 U	1.3 U	1 J	1.3 U	5.7	1.3 U	1.3 U	1.3 U	20	1.3 U	240 U	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	53 U	1.3 U	2.7 U	1.3 U	2.7 U
Bromoethene(Vinyl Bromide)	0.87 U	0.87 U	0.87 U	0.87 U	3.5 U	0.87 U	0.87 U	0.87 U	8.7 U	0.87 U	150 U	0.87 U	0.87 U	0.87 U	4.4 U	0.87 U	35 U	0.87 U	1.7 U	0.87 U	1.7 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	8.3 U	2.1 U	2.1 U	2.1 U	21 U	2.1 U	360 U	2.1 U	2.1 U	2.1 U	10 U	2.1 U	82 U	2.1 U	4.1 U	2.1 U	4.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	3.1 U	0.78 U	0.78 U	0.78 U	7.8 U	0.78 U	140 U	0.78 U	0.78 U	0.78 U	3.9 U	0.78 U	31 U	0.78 U	1.6 U	0.78 U	1.6 U
Carbon disulfide	1.6 U	1.6 U	2.4	0.45 J	4.9 J	1.6 U	0.84 J	1.6 U	16 U	0.39 J	270 U	0.14 J	0.91 J	0.58 J	7.8 U	0.89 J	62 U	1.5 J	14	0.41 J	1.9 J
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	3.7 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	160 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	36 U	0.92 U	1.8 U	0.92 U	1.8 U
Chloroethane	1.3 U	1.3 U	1.3 U	1.3 U	5.3 U	1.3 U	1.3 U	0.37 J	13 U	1.3 U	230 U	1.3 U	1.3 U	0.23 J	6.6 U	1.3 U	730	1.3 U	2.6 U	0.33 J	2.6 U
Chloroform	0.98 U	0.98 U	26	0.98 U	17	0.98 U	0.98 U	0.88 J	160	0.98 U	170 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	39 U	0.98 U	2 U	0.98 U	2 U
Chloromethane	1.2	1.2	0.26 J	1.1	4.1 U	1.1	1 U	2.6	10 U	1.3	180 U	1.2	1 U	1	5.2 U	1.2	41 U	2	2.1 U	1.4	0.4 J
cis-1,3-Dichloropropene	0.91 U	0.91 U	0.91 U	0.91 U	3.6 U	0.91 U	0.91 U	0.91 U	9.1 U	0.91 U	160 U	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	36 U	0.91 U	1.8 U	0.91 U	1.8 U
Cumene	0.98 U	2.3	0.98 U	3.9	3.9 U	0.98 U	0.98 U	0.98 U	9.8 U	0.21 J	170 U	0.98 U	0.98 U	0.98 U	4.9 U	0.19 J	39 U	0.2 J	0.48 J	0.15 J	2 U
Cyclohexane	0.69 U	19	1.8	13	1.3 J	0.34 J	0.69 U	0.39 J	6.9 U	0.85	120 U	0.45 J	0.94	0.48 J	3.4 U	0.66 J	27 U	0.92	4.2	0.71	0.77 J
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	6.8 U	1.7 U	1.7 U	1.7 U	17 U	1.7 U	300 U	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	67 U	1.7 U	3.4 U	1.7 U	3.4 U
Dichlorodifluoromethane	2.9	3	2.4 J	2.7	2.2 J	3.2	6.2	2.9	20 J	3.7	440 U	3.4	3	2.8	3.2 J	3.2	98 U	5.2	4 J	3.6	6.1
Ethylbenzene	0.87 U	32	0.38 J	18	1.4 J	0.41 J	0.3 J	0.33 J	8.7 U	1.1	150 U	0.66 J	0.41 J	0.63 J	4.3 U	0.85	34 U	0.99	0.47 J	0.85	0.37 J
Freon 22	1.1 J	1.3 J	0.44 J	1.1 J	7.1 U	1.6 J	0.59 J	1.4 J	18 U	2.7	310 U	2.1	0.67 J	1.9	8.8 U	2.1	70 U	3.5	1.3 J	3.4	1.2 J
Freon TF	0.66 J	1.5 U	1.5 U	0.62 J	6.1 U	1.5 U	1.5 U	1.5 U	15 U	1.5 U	270 U	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	61 U	1.5 U	3.1 U	1.5 U	3.1 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	8.5 U	2.1 U	2.1 U	2.1 U	21 U	2.1 U	380 U	2.1 U	2.1 U	2.1 U	11 U	2.1 U	84 U	2.1 U	4.3 U	2.1 U	4.3 U
Isopropyl alcohol	12 U	4.6 J	12 U	5.7 J	49 U	3.7 J	12 U	3.1 J	120 U	32	2200 U	11 J	12 U	9.1 J	61 U	18	490 U	30	25 U	16	25 U
m,p-Xylene	2.2 U	110	2 J	68	6 J	1.4 J	1.1 J	1 J	22 U	4	380 U	2.2	1.4 J	2.1 J	11 U	3.1	86 U	3.6	2.6 J	2.9	1.5 J
Methyl Butyl Ketone (2-Hexanone)	2 U	2 U	0.29 J	2.3	8.2 U	2 U	2 U	1.4 J	20 U	2 U	360 U	2 U	0.3 J	0.5 J	10 U	0.84 J	81 U	0.56 J	4.1 U	2 U	4.1 U
Methyl Ethyl Ketone	1.1 J	4.7	2.1	9.6	1.8 J	1.9	2.2	6.8	15 U	3.3	260 U	2.1	4.3	2.3	7.4 U	5.7	58 U	7.6	2.3 J	2.4	3.3
methyl isobutyl ketone	2 U	3.9	2 U	12	8.2 U	2 U	1.9 J	0.69 J	20 U	0.89 J	360 U	2 U	2.6	2 U	10 U	0.54 J	81 U	0.67 J	1.6 J	2 U	1.3 J
Methyl methacrylate	2 U	2 U	2 U	2 U	8.2 U	2 U	2 U	2 U	20 U	2 U	360 U	2 U	2 U	2 U	10 U	2 U	81 U	2 U	4.1 U	2 U	4.1 U
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	2.9 U	0.72 U	0.72 U	0.72 U	7.2 U	0.72 U	130 U	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	28 U	0.72 U	1.4 U	0.72 U	1.4 U
Methylene Chloride	1.7 U	1.7 U	1.2 J	0.97 J	6.9 U	0.72 J	1.5 J	0.65 J	17 U	1.1 J	310 U	0.95 J	1.7 U	0.81 J	8.7 U	1.2 J	69 U	1.8	1.5 J	1.1 J	1.6 J
Naphthalene	2.6 U	2.6 U	0.81 J	78	10 U	2.6 U	0.36 J	2.6 U	26 U	0.83 J	460 U	2.6 U	1.1 J	0.66 J	13 U	1.2 J	100 U	0.68 J	5.2 U	0.58 J	5.2 U
n-Butane	0.92 J	220 D	13	260 D	11	9.5	0.81 J	6.8	12 U	17	59 J	13	0.46 J	9.3	5.9 U	12	48	22	2.3 J	18	2.8
n-Butylbenzene	1.1 U	1.1 U	1.1 U	6.9	4.4 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	190 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U	43 U	1.1 U	2.2 U	1.1 U	2.2 U
n-Heptane	0.82 U	35	3.8	17	2.8 J	0.4 J	0.48 J	0.82 U	8.2 U	1.1	140 U	0.66 J	0.82 U	0.59 J	4.1 U	0.81	32 U	1.4	1.5 J	1.3	1.3 J
n-Hexane	0.31 J	120	5.3	73	3.1	1.4	0.79	1.3	7 U	3	120 U	2.1	0.63 J	1.6	3.5 U	2.4	28 U	3.8	2.8	2.6	2.3
n-Propylbenzene	0.98 U	2.6	0.98 U	4.9	3.9 U	0.98 U	0.98 U	0.98 U	9.8 U	0.25 J	170 U	0.98 U	0.98 U	0.98 U	4.9 U	0.22 J	39 U	0.23 J	2 U	0.98 U	2 U
sec-Butylbenzene	1.1 U	1.1 U	1.1 U	1.5	4.4 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	190 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U	43 U	1.1 U	2.2 U	1.1 U	2.2 U
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	3.4 U	0.85 U	0.28 J	0.23 J	8.5 U	0.73 J	150 U	0.32 J	0.51 J	0.54 J	4.3 U	0.6 J	34 U	0.77 J	1.7 U	0.94	1.7 U
tert-Butyl alcohol	15 U	15 U	15 U	15 U	61 U	15 U	15 U	15 U	150 U	15 U	2700 U	15 U	15 U	15 U	76 U	15 U	600 U	15 U	30 U	15 U	30 U
tert-Butylbenzene	1.1 U	1.1 U	1.1 U	1.1 U	4.4 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	190 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U	43 U	1.1 U	2.2 U	1.1 U	2.2 U
Tetrahydrofuran	15 U	15 U	15 U	15 U	59 U	15 U	15 U	15 U	150 U	15 U	2600 U	15 U	6.4 J	15 U	74 U	15 U	580 U	15 U	29 U	15 U	29 U
Toluene	0.48 J	220 D	12	100	11	2.5	1.8	2	7.5 U	7.2	130 U	4	2.6	3.8	3.8 U	5.6	30 U	6.6	3.1	6.1	3.6
trans-1,2-Dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	3.2 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	140 U	0.79 U	0.79 U	0.79 U	4 U	0.79 U	31 U	0.79 U	1.6 U	0.79 U	1.6 U
trans-1,3-Dichloropropene	0.91 U	0.91 U	0.91 U	0.91 U	3.6 U	0.91 U	0.91 U	0.91 U	9.1 U	0.91 U	160 U	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	36 U	0.91 U	1.8 U	0.91 U	1.8 U
Trichlorofluoromethane	1.5	1.8	1.5	1.4	5.7	180	24	180	190	310 D	410	250 D	120	250 D	520	400 D	350	360 D	260	320 D	280
Xylene (total)	3 U	140	2.6 J	96	8.3 J	2 J	1.5 J	1.6 J	30 U	5.4	530 U	3 J	1.9 J	2.9 J	15 U	4.4	120 U	4.8	3.3 J	3.9	2 J
Xylene, o-	0.87 U	34	0.56 J	26	2.2 J	0.51 J	0.4 J	0.53 J	8.7 U	1.4	150 U	0.79 J	0.57 J	0.79 J	4.3 U	1.2	34 U	1.3	0.7 J	0.95	0.55 J

Notes:
U - indicates compound was not detected (ND) above reporting limit. Reporting limit reported.
J - indicates result is less than the reporting limit, but greater than or equal to the minimum detection limit and the concentration is an approximate value.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.



N

LEGEND

SITE BOUNDARY

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SITE LAYOUT

0 75 150 300
Feet

DECEMBER 2015
5851.50238

O'BRIEN & GERE ENGINEERS, INC.

PLOTDATE: 12/03/15 10:50:49 AM Stantosa
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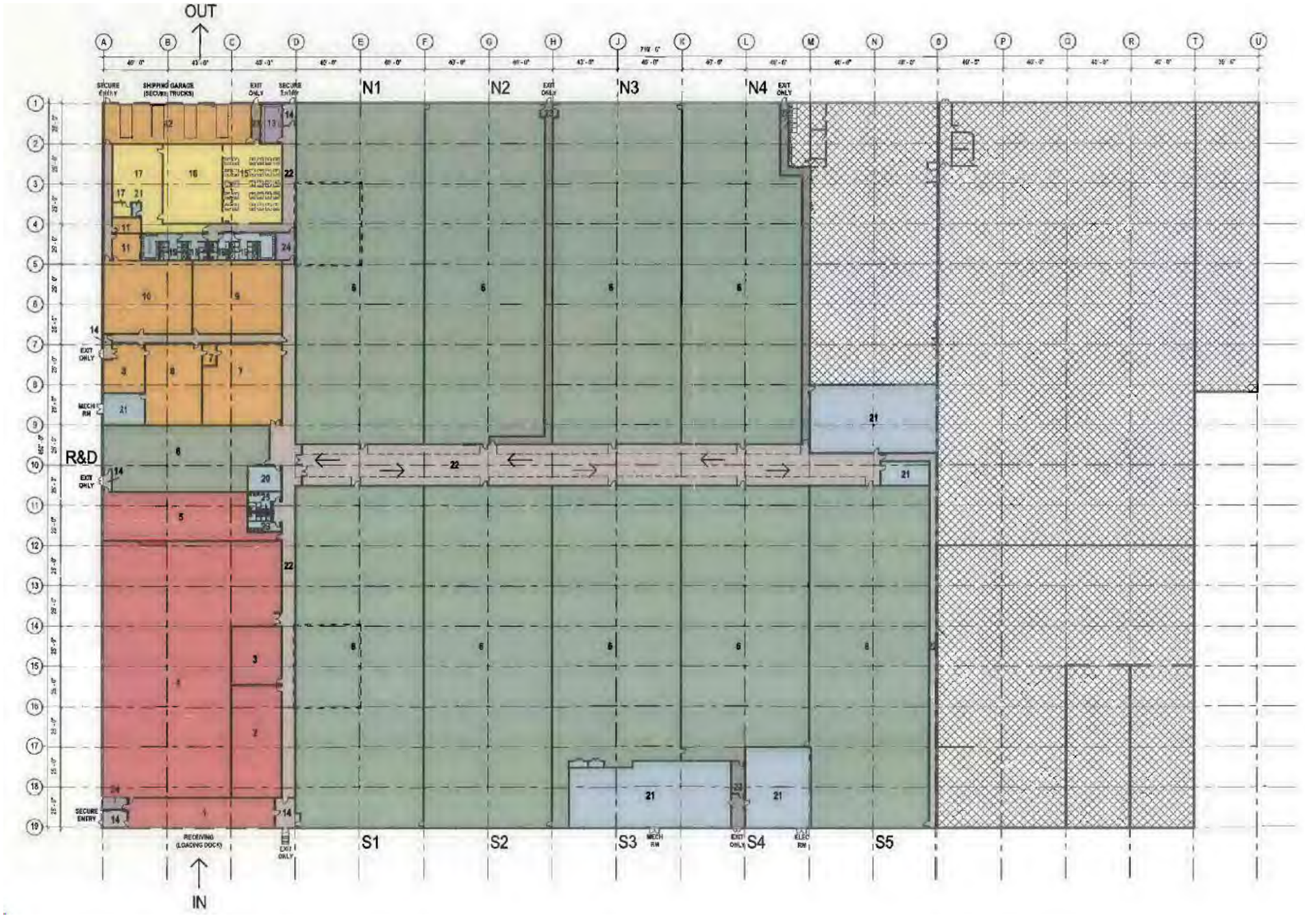

LEGEND

SPACE USE TYPE

- Manufacturing
- Manufacturing
- Manufacturing
- Security
- Cafeteria
- Support
- Circulation
- Exit Passageway
- Other Tenant

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

BUILDING 2
PROPOSED TENANT FLOOR PLAN

SCALE IS APPROXIMATE

5851.50238
DECEMBER 2015

O'BRIEN & GERE ENGINEERS, INC.

PLOTDATE: 12/01/15 10:00:54 AM Stantosa
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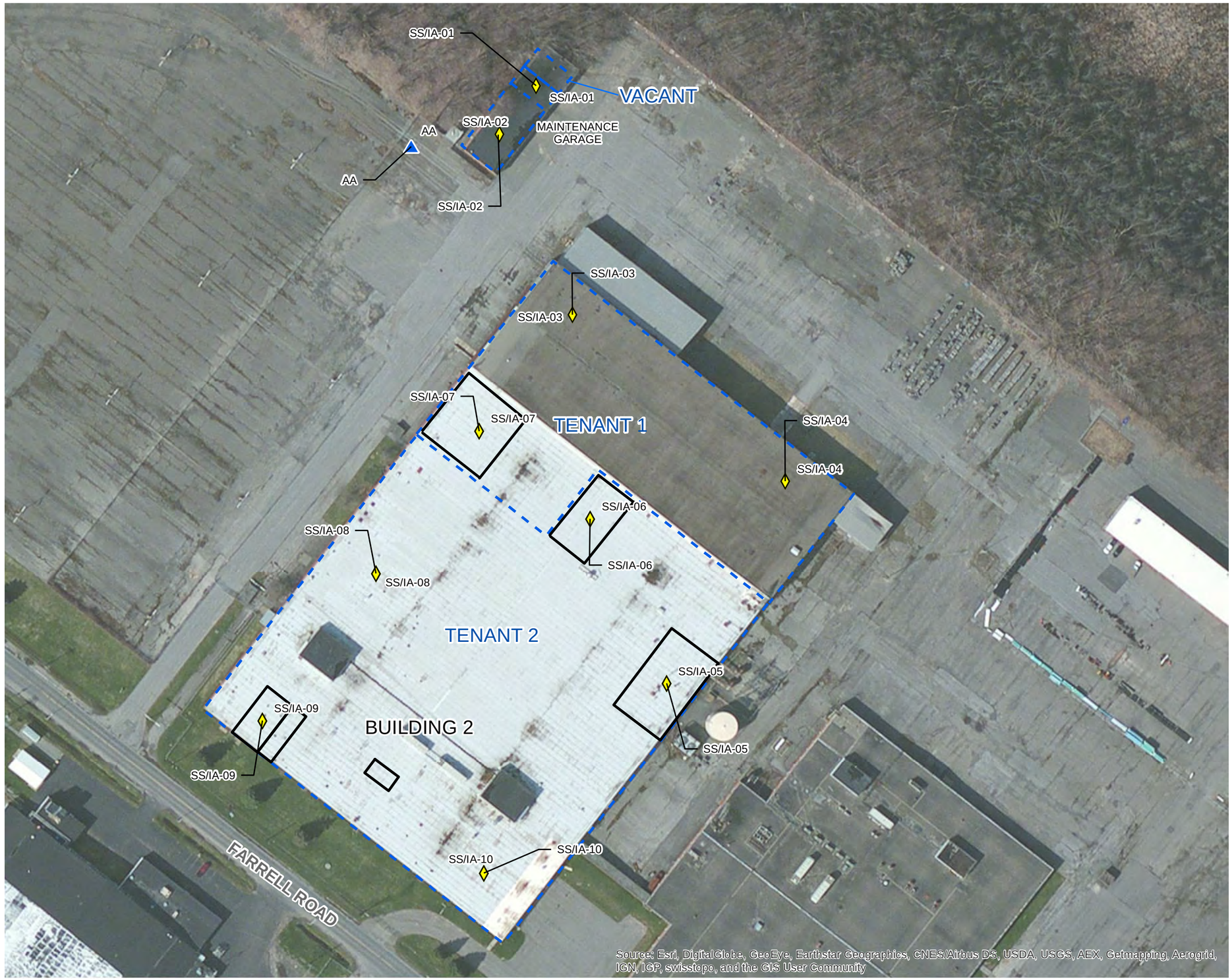
PLOTDATE: 12/01/15 9:54:06 AM Stantosa

FIGURE 3



N

LEGEND

- SUB-SLAB, INDOOR AIR SAMPLE PAIR
- AMBIENT AIR
- TENANT SPACE
- ANTICIPATED OFFICE AREA OR CAFETERIA

NOTE:
- LOCATIONS APPROXIMATE

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING LOCATIONS

0 60 120 240
Feet

DECEMBER 2015
5851.50238

O'BRIEN & GERE ENGINEERS, INC.

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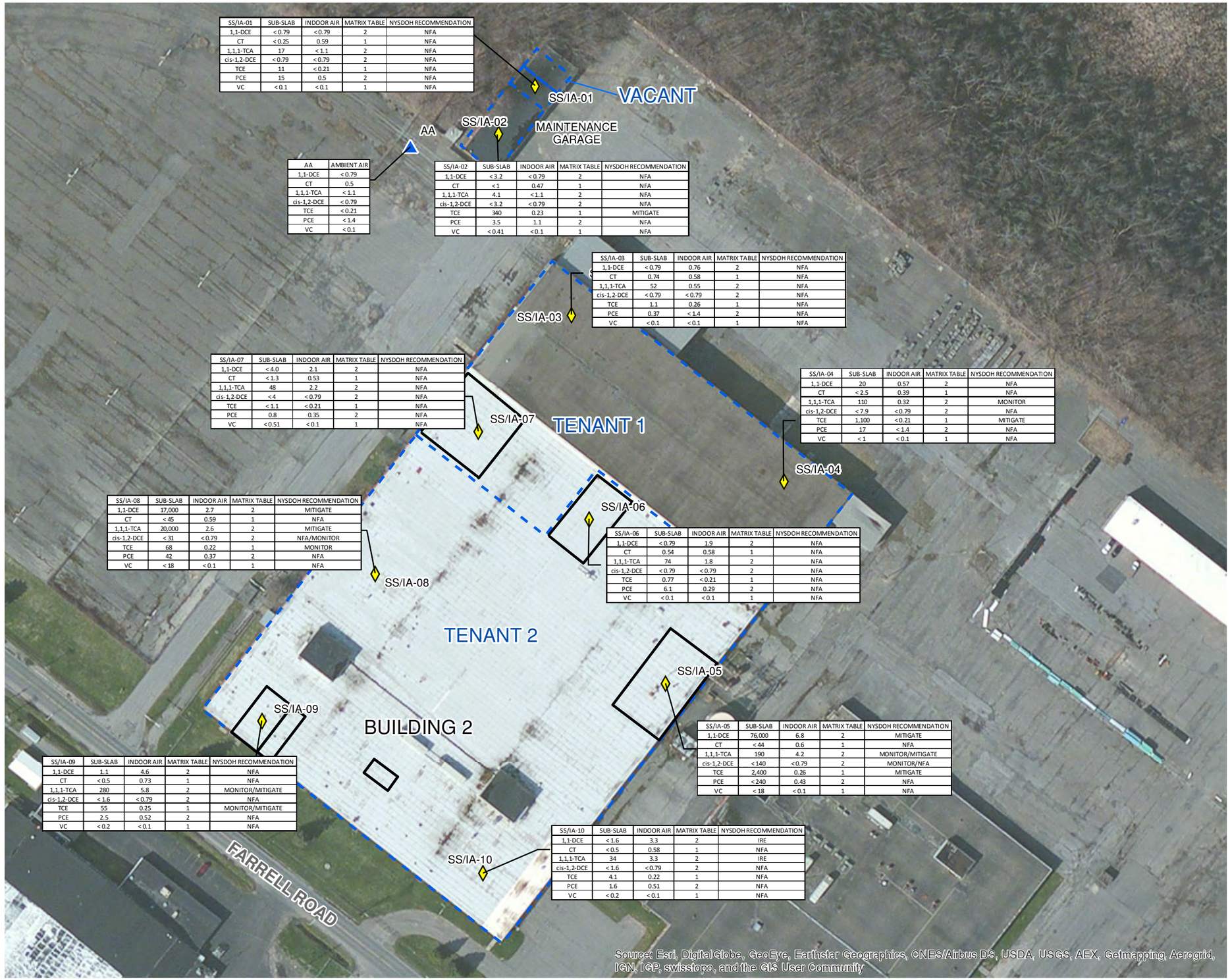

SS/IA-01	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 0.79	< 0.79	2	NFA
CT	< 0.25	0.59	1	NFA
1,1,1-TCA	17	< 1.1	2	NFA
cis-1,2-DCE	< 0.79	< 0.79	2	NFA
TCE	11	< 0.21	1	NFA
PCE	15	0.5	2	NFA
VC	< 0.1	< 0.1	1	NFA

AA	AMBIENT AIR
1,1-DCE	< 0.79
CT	0.5
1,1,1-TCA	< 1.1
cis-1,2-DCE	< 0.79
TCE	< 0.21
PCE	< 1.4
VC	< 0.1

SS/IA-02	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 3.2	< 0.79	2	NFA
CT	< 1	0.47	1	NFA
1,1,1-TCA	4.1	< 1.1	2	NFA
cis-1,2-DCE	< 3.2	< 0.79	2	NFA
TCE	340	0.23	1	MITIGATE
PCE	3.5	1.1	2	NFA
VC	< 0.41	< 0.1	1	NFA

SS/IA-03	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 0.79	0.76	2	NFA
CT	0.74	0.58	1	NFA
1,1,1-TCA	52	0.55	2	NFA
cis-1,2-DCE	< 0.79	< 0.79	2	NFA
TCE	1.1	0.26	1	NFA
PCE	0.37	< 1.4	2	NFA
VC	< 0.1	< 0.1	1	NFA

SS/IA-07	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 4.0	2.1	2	NFA
CT	< 1.3	0.53	1	NFA
1,1,1-TCA	48	2.2	2	NFA
cis-1,2-DCE	< 4	< 0.79	2	NFA
TCE	< 1.1	< 0.21	1	NFA
PCE	0.8	0.35	2	NFA
VC	< 0.51	< 0.1	1	NFA

SS/IA-04	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	20	0.57	2	NFA
CT	< 2.5	0.39	1	NFA
1,1,1-TCA	110	0.32	2	MONITOR
cis-1,2-DCE	< 7.9	< 0.79	2	NFA
TCE	1,100	< 0.21	1	MITIGATE
PCE	17	< 1.4	2	NFA
VC	< 1	< 0.1	1	NFA

SS/IA-08	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	17,000	2.7	2	MITIGATE
CT	< 45	0.59	1	NFA
1,1,1-TCA	20,000	2.6	2	MITIGATE
cis-1,2-DCE	< 31	< 0.79	2	NFA/MONITOR
TCE	68	0.22	1	MONITOR
PCE	42	0.37	2	NFA
VC	< 18	< 0.1	1	NFA

SS/IA-06	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 0.79	1.9	2	NFA
CT	0.54	0.58	1	NFA
1,1,1-TCA	74	1.8	2	NFA
cis-1,2-DCE	< 0.79	< 0.79	2	NFA
TCE	0.77	< 0.21	1	NFA
PCE	6.1	0.29	2	NFA
VC	< 0.1	< 0.1	1	NFA

SS/IA-09	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	1.1	4.6	2	NFA
CT	< 0.5	0.73	1	NFA
1,1,1-TCA	280	5.8	2	MONITOR/MITIGATE
cis-1,2-DCE	< 1.6	< 0.79	2	NFA
TCE	55	0.25	1	MONITOR/MITIGATE
PCE	2.5	0.52	2	NFA
VC	< 0.2	< 0.1	1	NFA

SS/IA-05	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	76,000	6.8	2	MITIGATE
CT	< 44	0.6	1	NFA
1,1,1-TCA	190	4.2	2	MONITOR/MITIGATE
cis-1,2-DCE	< 140	< 0.79	2	MONITOR/NFA
TCE	2,400	0.26	1	MITIGATE
PCE	< 240	0.43	2	NFA
VC	< 18	< 0.1	1	NFA

SS/IA-10	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 1.6	3.3	2	IRE
CT	< 0.5	0.58	1	NFA
1,1,1-TCA	34	3.3	2	IRE
cis-1,2-DCE	< 1.6	< 0.79	2	NFA
TCE	4.1	0.22	1	NFA
PCE	1.6	0.51	2	NFA
VC	< 0.2	< 0.1	1	NFA

N

LEGEND

- SUB-SLAB, INDOOR AIR SAMPLE PAIR
- AMBIENT AIR
- TENANT SPACE
- ANTICIPATED OFFICE AREA OR CAFETERIA

NOTE:
- LOCATIONS APPROXIMATE

LOCATION ID

SS/IA-01	SUB-SLAB	INDOOR AIR	MATRIX TABLE	NYSDOH RECOMMENDATION
1,1-DCE	< 0.79	< 0.79	2	NFA
CT	< 0.25	0.59	1	NFA
1,1,1-TCA	17	< 1.1	2	NFA
cis-1,2-DCE	< 0.79	< 0.79	2	NFA
TCE	11	< 0.21	1	NFA
PCE	15	0.5	2	NFA
VC	< 0.1	< 0.1	1	NFA

ANALYTE — RESULT (ug/m3) — NYSDOH MATRIX TABLE

NFA - NO FURTHER ACTION
IRE - IDENTIFY SOURCE(S) AND REDUCE EXPOSURE

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING RESULTS

0 60 120 240
Feet

DECEMBER 2015
5851.50238

O'BRIEN & GERE ENGINEERS, INC.

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Data Usability Summary Report

DATA VALIDATION MEMORANDUM

TO:	MA Distler	cc:	EM Alongi – OBG
FROM:	KA Storne		
RE:	Data Usability Summary Report for the Former GE Farrell Road Site VI Sampling – Performed September 2015		
FILE:	5851/50238.002.100		
DATE:	November 6, 2015		

This Data Usability Summary Report (DUSR) presents the data validation results for indoor air, sub-slab soil gas and ambient air samples collected by O'Brien & Gere in September 2015 for the Lockheed Martin Corporation (LMC) at the Former GE Farrell Road Site.

TestAmerica Burlington (TA Burlington) of Burlington, Vermont performed the laboratory analyses for the sampling event. The laboratory package generated by TA Burlington contained summary forms for quality control analysis and supportive raw data.

The analysis performed for this sampling event is summarized in Table 1 below.

Table 1. ***Analytical Methods and References***

Parameter	Method	Reference
Volatile Organic Compounds (VOCs)	USEPA Method TO-15	1

Note:
1. United States Environmental Protection Agency. 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.

The samples submitted for review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated for this investigation. Table 4 presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA), 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Cincinnati, Ohio.
- O'Brien & Gere. 2007. Vapor Intrusion Sampling Work Plan, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York. Syracuse, New York.

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 2014. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6*. Albany, New York

USEPA data validation guidelines have been modified to reflect the requirements of the methods used in the analysis of samples collected for this sampling event. Qualifiers were applied to data that failed to meet the quality control criteria presented in the USEPA methods.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records;
- Sample collection;
- Canister filling evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- Laboratory control sample (LCS) analysis;
- Internal standards performance;
- Field duplicate analysis;
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check;
- Target analyte quantitation, identification, and quanitation limits (QLs); and
- Documentation completeness.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Sample collection;
- Canister filling evaluation
- Holding times;
- Blank analysis
- LCS analysis;
- Internal standards performance;
- GC/MS instrument performance check;
- Documentation completeness.

Excursions from method or validation criteria and additional observations are described below.

I. CHAIN-OF-CUSTODY RECORDS

For the samples collected 9/23/15, the Federal Express tracking numbers for the sample containers were only listed on page 4 of the record.

II. FIELD DUPLICATE ANALYSIS

Results in the following samples were qualified as approximate (J) due to a minor field duplicate precision excursion:

- Carbon disulfide in samples FR-SS09-092315 and FR-SSDUP-092315 [FR-SS09-092315].

III. CALIBRATIONS

Results in the following samples were qualified as approximate (UJ) due to a minor calibration accuracy excursion:

- Bromoform in samples FR-SS01-092315, FR-SS02-092315, FR-SS03-092315, FR-SS06-092315, FR-SS07-092315, FR-SS09-092315, FR-SSDUP-092315 [FR-SS09-092315] and FR-SS10-0923152-IA-021915.

IV. TARGET ANALYTE QUANTITATION, IDENTIFICATION AND QLS

Dilutions were performed for samples FR-IA01-092315, FR-SS02-092315, FR-IA02-092315, FR-SS04-092315, FR-SS05-092315, FR-IA05-092315, FR-IA06-092315, FR-SS07-092315, FR-IA07-092315, FR-SS08-092315, FR-IA08-092315, FR-SS09-092315, FR-IA09-092315, FR-SSDUP-092315 [FR-SS09-092315], FR-SS10-092315 and FR-IA10-092315 due to high concentrations of target analytes. As a result of the dilutions, reported detection limits were elevated.

The initial detected result for cyclohexane in sample FR-SS09-092315 was revised to non-detected (U) as a result of the laboratory re-evaluating the target analyte identification as requested during data validation.

For samples FR-IA01-092315, FR-IA02-092315, FR-SS05-092315, FR-IA05-092315, FR-IA06-092315, FR-IA07-092315, FR-SS08-092315, FR-IA08-092315, FR-IA09-092315 and FR-IA10-092315 two analyses were reported by the laboratory. The analytes with concentrations that were greater than the upper calibration limit were reported from the higher dilution analysis and the concentrations for the remaining analytes were reported from the less diluted or undiluted analysis.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

Table 2. *Sample Cross Reference Table*

Sample collected and submitted for data validation						
Laboratory Name	**Laboratory SDG**	**Identification**	**Client Identification**	**Collected**	**Matrix**	**Analysis Required**
TestAmerica Burlington	200-29972-1	29972-1	FR-SS01-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-2	FR-IA01-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-3	FR-SS02-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-4	FR-IA02-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-5	FR-SS03-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-6	FR-IA03-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-7	FR-SS04-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-8	FR-IA04-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-9	FR-SS05-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-10	FR-IA05-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-11	FR-SS06-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-12	FR-IA06-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-13	FR-SS07-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-14	FR-IA07-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-15	FR-SS08-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-16	FR-IA08-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-17	FR-SS09-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-18	FR-IA09-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-19	FR-SSDUP-092315 [FR-SS09-092315]	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-20	FR-SS10-092315	09/23/2015	Sub-Slab Soil Gas	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-21	FR-IA10-092315	09/23/2015	Indoor Air	USEPA Method TO-15 for VOCs
TestAmerica Burlington	200-29972-1	29972-22	FR-AA-092315	09/23/2015	Ambient Air	USEPA Method TO-15 for VOCs

Note:

TA Burlington indicates TestAmerica of Burlington, Vermont.

SDG Indicates sample delivery group.

VOCs indicates volatile organic compounds.

Table 3. *Specific Data Validation Approach Applied*

O'Brien & Gere Data validation approach using USEPA Region II Data validation guidelines for VOCs by USEPA Method TO-15	
Laboratory Methods and Data Validation Approach	The O'Brien & Gere data validation approach utilizes the methods applied by the laboratory to evaluate data. The USEPA Region II validation guidelines and professional judgment are then utilized to apply qualifiers to data if excursions from the method quality control requirements are identified.
General Validation Approach	For certain parameters, USEPA guidance for data validation indicates that professional judgment is to be utilized to identify the appropriate validation action. In these situations, the validation approach taken by O'Brien & Gere is a conservative one; qualifiers are applied to sample data to indicate both major and minor excursions. In this way, data associated with any type of excursion are identified to the data user. Major excursions will result in data being rejected, indicating that the data are considered unusable for either quantitative or qualitative purposes. Minor excursions will result in sample data being qualified as approximate that are otherwise usable for quantitative or qualitative purposes.
	Excursions are subdivided into excursions that are within the laboratory's control and those that are out of the laboratory's control. Excursions involving laboratory control sample recovery, calibration response, method blank excursions, low or high spike recovery due to inaccurate spiking solutions or poor instrument response, holding times, interpretation errors, and quantitation errors are within the control of the laboratory. An excursion resulting from internal standard performance due to matrix interference is an example of an excursion that is not within the laboratory's control if the laboratory has followed proper method control procedures.
	The data quality evaluation results in only one type of qualifier ("U", "J", "UJ" or "R") for each analyte; in a case when several qualifiers are applicable to the same analyte, the cumulative effect of the various QA/QC excursions is employed in assigning the final data qualifiers. For example, if a sample result is affected by low LCS recovery for which the "J" qualifier is applied to indicate a biased low result, but a major response factor excursion results in the rejection of the sample results (application of the "R" qualifier), the final data qualifier is the "R" qualifier, considering the overall impact of the two excursions.
Validation Guidelines	Validation qualifiers will be applied based on professional judgment and the guidance in USEPA. 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6. New York, New York.
Validation Qualifiers	U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the quantitation limit (QL). J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the QL). J+ The result is an approximated quantity, but the result may be biased high. J- The result is an approximated quantity, but the result may be biased low. NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. UJ - The analyte was not detected at a level greater than or equal to the QL. However, the QL is approximate and may be inaccurate or imprecise. R - The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
Canister Pressure Excursions	The laboratory should evacuate the canister to approximately - 30 inches of mercury (" Hg) prior to shipping the canister to the sampling location.
	The difference between the initial canister pressure recorded at the laboratory and the pressure measured prior to sample collection must not be greater than 5" Hg.
	Difference between the canister pressure measured in the field after sample collection and the pressure measured upon receipt at laboratory must not be greater than 5" Hg.
	The canisters must be filled to a minimum of -15 in Hg. But the sample canister should be filled to approximately -5" Hg to -2" Hg when collection of the sample is completed. A canister with any negative pressure upon receipt at the laboratory is acceptable for analysis.

O'Brien & Gere Data validation approach using USEPA Region II Data validation guidelines for VOCs by USEPA Method TO-15

Canister Pressure Excursions	For samples impacted by pressure excursions, results are qualified as approximate (UJ, J).
Canister Leak Check	Hold vacuum/pressure within ±2psi for 24 hours before sampling. Difference in initial and 24 hour pressure greater than 5 is qualified approximate (J), UJ).
Evaluation of Holding Times	A holding time of 30 days from sample collection to analysis is used to evaluate holding times. Canisters should be returned to the laboratory within 15 days of shipment to the field location but are not qualified for this excursion. Results outside of holding time are qualified approximate (UJ, J).
Evaluation of Calibration Data	VOC target analytes are evaluated using the criteria of either 30 percent relative standard deviation (%RSD) for initial calibrations or calibration coefficient of greater than 0.990 for initial calibration curves. The calibration verifications are evaluated using the criteria of 30 percent difference (%D). Initial calibrations and calibration verifications are also evaluated using the response factor (RF) criteria of 0.05 for the target analytes. The second-source standard or low standard is evaluated using a 30% recovery or the laboratory control limits. The IC verification (ICV) are evaluated using the criteria of 30% D or 70 to 130%R. For Initial Calibration: Detected results for target analytes associated with RFs of less than 0.05 are qualified as approximate (J) and non-detected results are rejected (R). Detected results for target analytes associated with RSD greater than 30.0% are qualified as approximate (J). Non-detected results are qualified as approximate (UJ). Detected results for target analytes associated with RSD greater than 90% are qualified as approximate (J) and non-detected results are rejected (R). For Calibration Verifications: Detected and non-detected results for target analytes associated with %D greater than 30.0% are qualified as approximate (J) and non-detected results are qualified as approximate (UJ). Detected results for target analytes associated with RSD greater than 90% are qualified as approximate (J) and non-detected results are rejected (R). For Initial Calibration Verifications: Detected and non-detected results for target analytes associated outside of 30%D or 70 to 130 %R are qualified as approximate (J) and non-detected results are qualified as approximate (UJ).

O'Brien & Gere Data validation approach using USEPA Region II Data validation guidelines for VOCs by USEPA Method TO-15

Evaluation and Actions for Blank	Blanks are not qualified due to contamination of another blank. Sample results qualified as non-detected (U) are treated as hits when qualifying for calibration excursions. 1. For blank results less than the QL, samples with concentrations less than the QL are reported at the QL and qualified as non-detected (U). Samples with concentrations less than two times the QL are reported at the sample concentration as non-detected (U). 2. For blank results greater than the QL, samples with concentrations less than the QL are reported at the QL and qualified as non-detected (U). Samples with concentrations greater than or equal to the QL and less than the blank contamination level are reported and qualified as non-detected (U 3. For blank results equal to the QL, sample concentrations less than the QL are reported at the QL value and qualified as non-detected (U). 4. For gross contamination in blanks (saturated peaks, interference peaks, poor baselines), all associated sample detected results are qualified as non-detected (U) using professional judgment. Allowance for twice the methylene chloride, 2-butanone and acetone.
Actions for Canister Blank	1. For results less than canister results or greater than canister result and less than twice the canister result, are qualified as non-detected (U).
Evaluation of LCS Data	Detected result associated with LCS recovery outside the control limit is qualified as approximate (J). Non-detected result associated with LCS recovery greater than the upper control limit is not qualified. Non-detected result associated with LCS recovery less than the lower control limit but greater than10% is qualified as approximate (UJ). Non-detected result associated with LCS recovery less than 10% is rejected (R). [Region II - non-detected result less than 50% is rejected (R).]
Evaluation of LCS/LCSD Data	Detected and non-detected result associated with LCS/LCSD precision outside the control limit is qualified as approximate (UJ, J).
Evaluation of Multi-results	When two results are reported, due to re-preparation or for dilution analyses, both sets of results are evaluated during the validation process. Based on the evaluation of the associated quality control data, the results reflecting the higher quality data are reported.
General Evaluation of Data	Laboratory established control limits are used to assess data.
	In the case that excursions are identified in more than one quality control sample of the same matrix within one sample delivery group, samples are batched according to sample analysis date and qualified accordingly.
	If percent recoveries are less than laboratory control limits but greater than ten percent, non-detected and detected results are qualified as approximate (UJ, J) to indicate minor excursions.
	If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate, biased high (J) to indicate minor excursions.
	If percent recoveries are less than ten percent, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R) to indicate major excursions.
	If RPDs are outside of laboratory control limits, detected and non-detected results are qualified as approximate (J) to indicate minor excursions.
Evaluation of Field Duplicate Data	Field duplicate data are evaluated against relative percent difference (RPD) criteria of less than 25 percent for air when results are greater than five times the QL. When sample results for field duplicate pairs are less than five times the QL, the data are evaluated using control limits of plus or minus two times the QL. If RPDs for field duplicates are outside of laboratory control limits, detected and non-detected results are qualified as approximate (UJ, J) to indicate minor excursions.

O'Brien & Gere Data validation approach using USEPA Region II Data validation guidelines for VOCs by USEPA Method TO-15	
Evaluation of Internal Standards	Internal standard recoveries are evaluated using control limits of from 60% of the lower standard area to 140% of the upper standard area of the associated calibration verification standard. The results associated with internal standard area recoveries less than 60%, detected results are qualified as approximate biased high (J+) and non-detected results are rejected (R). The results associated with internal standard area recoveries greater than 140%, detected results are qualified as approximate biased low (J-). Retention time difference of greater than 20 seconds between CCV -samples results are rejected (R).
Applying "J" qualifier	The "J" qualifier applied by the laboratory to organic results that are greater than the MDL but less than the QL is retained during the validation process.

Source: O'Brien & Gere

Table 4. *Laboratory QA/QC Analysis Definitions*

QA/QC Term	Definition
Accuracy	The closeness or agreement of the observed value or test response to the true or acceptable reference value or the test response from a reference method. It is influenced by both random error (precision) and systematic error (bias). The terms "bias" and "precision" are often used in lieu of "accuracy".
Precision	A measure of mutual agreement between two or more individual measurements of the same property, obtained under similar conditions.
Representativeness	A measure of the degree to which data accurately and precisely characterize a population; the correspondence between the analytical result and the actual quality or condition experienced by a contaminant receptor.
Sensitivity	The capability of a method or instrument to discriminate between measurement responses representing different levels of a variable of interest.
Completeness	A measure of the amount of valid data obtained from a measurement system as compared to the planned amount, usually expressed as a percentage; also a measure of the degree to which the sampling scheme represents the available range in something, regardless of what was planned.
Detection limit	The lowest concentration or amount of the target analyte that can be determined to be different from zero by a single measurement at a stated level of probability.
Quantitation limit	The level above which numerical results may be obtained with a specified degree of confidence; the minimum concentration of an analyte in a specific matrix that can be identified and quantified above the method detection limit and within specified limits of precision and bias during routine analytical operating conditions.
Method detection limit	The minimum concentration of an analyte that undergoes preparation similar to the environmental samples and can be reported with a stated level of confidence that the analyte concentration is greater than zero.
Instrument detection limit	The lowest concentration of a metal target analyte that, when directly inputted and processed on a specific analytical instrument, produces a signal/response that is statistically distinct from the signal/response arising from equipment "noise" alone.
Gas chromatography/mass spectrometry (GC/MS) instrument performance check	Performed to verify mass resolution, identification, and to some degree, instrument sensitivity. These criteria are not sample specific; conformance is determined using standard materials.
Control limits	The variation in a process data set expressed as plus/minus standard deviations from the mean, generally placed on a chart to indicate the upper and lower acceptable ranges of process data and to judge whether the process is in or out of statistical limitations.
Calibration	Compliance requirements for satisfactory instrument calibration are established to verify that the instrument is capable of producing acceptable quantitative data. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of analysis and calibration verifications document satisfactory maintenance and adjustment of the instrument on a day-to-day basis.
Relative Response Factor	A measure of the relative mass spectral response of an analyte compared to its internal standard. Relative Response Factors are determined by analysis of standards and are used in the calculation of concentrations of analytes in samples.
Relative standard deviation	The standard deviation divided by the mean; a unit-free measure of variability.
Correlation coefficient	A measure of the strength of the relationship between two variables.
Relative Percent Difference	Used to compare two values; the relative percent difference is based on the mean of the two values, and is reported as an absolute value, i.e., always expressed as a positive number or zero.

QA/QC Term	Definition
Percent Difference	Used to compare two values; the percent difference indicates both the direction and the magnitude of the comparison, i.e., the percent difference may be either negative, positive, or zero.
Drift	The deviation in instrument response from its set or reference value over a period of time.
Percent Recovery	The act of determining whether or not the methodology measures all of the target analytes contained in a sample.
Blanks	Several types of blanks are analyzed by the laboratory. Corrective action procedures are implemented for blank analyses if target compounds are detected at concentrations greater than the method criteria. The criteria for evaluation of blanks apply to any blank associated with a group of samples. If problems with a blank exist, data associated with the project are evaluated to determine whether or not there is an inherent variability in the data for the project or if the problem is an isolated occurrence not affecting other data.
Reagent blank	Consists of laboratory target analyte-free water and any reagents added to a sample during analysis. This type of blank is analyzed to evaluate whether contamination occurred during the analysis of the sample due to reagent contamination. A reagent blank is usually analyzed following highly contaminated samples to assess the potential for cross-contamination during analysis.
Instrument blank	Consists of clean solvent spiked with the surrogates and analyzed on each GC column and instrument used for sample analysis by GC. This type of blank is analyzed to evaluate whether contamination occurred during the analysis of the sample due to instrument contamination.
Calibration blank	Consists of acids and reagent water used to prepare metal samples for analysis. This type of blank is analyzed to evaluate whether contamination is occurring during the preparation and analysis of the sample.
Method blank	A water or soil blank that undergoes the preparation procedures applied to a sample (i.e., extraction, digestion, clean-up). These samples are analyzed to examine whether sample preparation, clean-up, and analysis techniques result in sample contamination.
Field/equipment	Collected and submitted for laboratory analysis, where appropriate. Field/equipment blanks are handled in the same manner as environmental samples. Equipment/field blanks are analyzed to assess contamination introduced during field sampling procedures.
Trip blank	Consist of samples of analyte-free water that have undergone shipment from the sampling site to the laboratory in coolers with the environmental samples submitted for volatile organic compound (VOC) analysis. Trip blanks will be analyzed for VOCs to determine if contamination has taken place during sample handling and/or shipment. Trip blanks will be utilized at a frequency of one each per cooler sent to the laboratory for VOC analysis.
Storage blank	Consists of sample vials filled with laboratory analyte-free water. The vials are stored at the laboratory with the samples collected for VOC analysis, under the same conditions as the samples. The storage blank is analyzed with the VOC samples to evaluate for contamination due to sample storage.
Internal standards performance	Compounds not found in environmental samples which are spiked into samples and quality control samples at the time of sample preparation for organic analyses. Internal standards must meet retention time and recovery criteria specified in the analytical method. Internal standards are used as the basis for quantitation of the target analytes.
Surrogate recovery	Compounds similar in nature to the target analytes but not expected to be detected in the environmental media which are spiked into environmental samples, blanks, and quality control samples prior to sample preparation for organic analyses. Surrogates are used to evaluate analytical efficiency by measuring recovery.
Laboratory control sample	Standard solutions that consist of known concentrations of the target analytes spiked into laboratory analyte-free water or sand. They are prepared or purchased from a certified

QA/QC Term	Definition
Matrix spike blank analyses	manufacturer from a source independent from the calibration standards to provide an independent verification of the calibration procedure. They are prepared and analyzed following the same procedures employed for environmental sample analysis to assess method accuracy independently of sample matrix effects.
Laboratory duplicate	Two or more representative portions taken from one homogeneous sample by the analyst and analyzed in the same laboratory.
Matrix	The material of which the sample is composed or the substrate containing the analyte of interest, such as drinking water, waste water, air, soil/sediment, biological material.
Matrix Spike (MS)	An aliquot of a matrix (water or soil) fortified (spiked) with known quantities of specific target analytes and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery.
Matrix spike duplicate (MSD)	A second aliquot of the same matrix as the matrix spike that is spiked in order to determine the precision of the method.
Retention time	The time a target analyte is retained on a GC column before elution. The identification of a target analyte is dependent on a target compound's retention time falling within the specified retention time window established for that compound.
Relative retention time	The ratio of the retention time of a compound to that of a standard.
Resolution	The separation between peaks on a chromatogram.
Interference	An element, compound, or other matrix effect present in a sample which disturbs the detection of a target analyte leading to inaccurate concentration results for the target analyte.
Percent Moisture	An approximation of the amount of water in a soil/sediment sample made by drying an aliquot of the sample.
Raw data	The documentation generated during sampling and analysis which includes, but is not limited to, field notes, hardcopies of electronic data, disks, un-tabulated sample results, QC sample results, printouts of chromatograms, instrument outputs, and handwritten notes.

Source O'Brien & Gere

Laboratory Data Package

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 10/05/2015 2238
Prep Date: 10/05/2015 2238

Analysis Batch: 200-95027
Prep Batch: N/A

Instrument ID: CHX.i
Lab File ID: 16087_18.D
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.48	J	0.080	0.50
Freon 22	0.12	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.13	J	0.093	0.50
n-Butane	5.4		0.078	0.50
Vinyl chloride	0.040	U	0.032	0 040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.27		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	17		0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.76		0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.35	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	1.5		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.72		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	5.3		0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	3.1		0.046	0.20
Cyclohexane	0.51		0.039	0.20
Carbon tetrachloride	0.040	U	0.032	0.040
2,2,4-Trimethylpentane	0.043	J	0.039	0.20
Benzene	1.1		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.93		0.040	0.20
Trichloroethene	2.0		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.15	J	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	3.3		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	2.2		0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.070	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.088	J	0.033	0.20
m,p-Xylene	0.46	J	0.071	0.50
Xylene, o-	0.13	J	0.037	0.20
Xylene (total)	0.59	J	0.037	0 70
Styrene	0.20	U	0.043	0 20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.065	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.15	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.4	J	0.40	2.5
Freon 22	0.44	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	0.26	J	0.19	1.0
n-Butane	13		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.5		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	41		2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	2.4		0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.2	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	5 3		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0 81
Methyl Ethyl Ketone	2.1		0.15	1 5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	26		0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	17		0.25	1.1
Cyclohexane	1.8		0.13	0.69
Carbon tetrachloride	0.25	U	0.20	0.25
2,2,4-Trimethylpentane	0.20	J	0.18	0.93
Benzene	3.5		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0 81
n-Heptane	3.8		0.16	0 82
Trichloroethene	11		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.0	J	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	12		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	15		0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.29	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.38	J	0.14	0.87
m,p-Xylene	2.0	J	0.31	2.2
Xylene, o-	0.56	J	0.16	0.87
Xylene (total)	2.6	J	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2 1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0 98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS01-092315**

Lab Sample ID: 200-29972-1
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.32	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.81	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

D20

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60		0.080	0.50
Freon 22	0.36	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0 038	0.20
Chloromethane	0.60		0.093	0.50
n-Butane	~~70~~ 94	~~E~~	~~0.078~~ 0.23	~~0.50~~ 1.5
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.33		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	9.0		0.86	5.0
Isopropyl alcohol	1.9	J	0.98	5.0
Carbon disulfide	0.50	U	0.043	0 50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	34		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	1.6		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	5.5		0.039	0.20
Carbon tetrachloride	0.093		0.032	0.040
2,2,4-Trimethylpentane	11		0.039	0.20
Benzene	12		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	8.5		0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.96		0.050	0.50
Toluene	~~59~~ 68	~~E~~	~~0.093~~ 0.28	~~0.20~~ 0.6
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.082	J	0.023	0.20

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 | Date Sampled: 09/23/2015 1719
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	7.3		0.033	0.20
m,p-Xylene	25		0.071	0.50
Xylene, o-	7.9		0.037	0.20
Xylene (total)	33		0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0 20
Cumene	0.47		0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.53		0.043	0.20
4-Ethyltoluene	0.81		0.044	0.20
1,3,5-Trimethylbenzene	0.51		0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	1.3		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.0		0.40	2.5
Freon 22	1.3	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	170	E	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.8		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	21		2.0	12
Isopropyl alcohol	4.6	J	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA01-092315**

Lab Sample ID: 200-29972-2
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	120		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	4.7		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	19		0.13	0.69
Carbon tetrachloride	0.59		0.20	0.25
2,2,4-Trimethylpentane	50		0.18	0 93
Benzene	39		0.13	0 64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	35		0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0 91
methyl isobutyl ketone	3.9		0.20	2.0
Toluene	190	E	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.56	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	32		0.14	0.87
m,p-Xylene	110		0.31	2.2
Xylene, o-	34		0.16	0.87
Xylene (total)	140		0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	2.3		0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	2.6		0.21	0.98
4-Ethyltoluene	4.0		0.22	0.98
1,3,5-Trimethylbenzene	2.5		0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA01-092315**

Lab Sample ID: 200-29972-2
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	6.6		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA01-092315**

Lab Sample ID: 200-29972-2
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.69	J D	0.24	1.5
Freon 22	0.43	J D	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	0.74	J D	0.28	1.5
n-Butane	94	D	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0 60
Chloroethane	1.5	U	0.25	1 5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	0.36	J D	0.11	0.60
Freon TF	0.60	U	0.22	0.60
1,1-Dichloroethene	0.60	U	0.11	0.60
Acetone	10	J D	2.6	15
Isopropyl alcohol	15	U	2.9	15
Carbon disulfide	1.5	U	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.5	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	37	D	0.16	0.60
1,1-Dichloroethane	0.60	U	0.075	0.60
Methyl Ethyl Ketone	1.4	J D	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.10	0.60
1,2-Dichloroethene, Total	1.2	U	0.10	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	0.60	U	0.14	0.60
Cyclohexane	5.3	D	0.12	0.60
Carbon tetrachloride	0.12	U	0.096	0.12
2,2,4-Trimethylpentane	11	D	0.12	0.60
Benzene	13	D	0.13	0.60
1,2-Dichloroethane	0.60	U	0.12	0.60
n-Heptane	8.6	D	0.12	0.60
Trichloroethene	0.12	U	0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	0.80	J D	0.15	1.5
Toluene	58	D	0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.60	U	0.069	0.60

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA01-092315**

Lab Sample ID: 200-29972-2
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	7.1	D	0.099	0.60
m,p-Xylene	26	D	0.21	1.5
Xylene, o-	7.2	D	0.11	0.60
Xylene (total)	33	D	0.11	2.1
Styrene	0.60	U	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.37	J D	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.44	J D	0.13	0.60
4-Ethyltoluene	0.69	D	0.13	0.60
1,3,5-Trimethylbenzene	0.41	J D	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.90	D	0.13	0 60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.16	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.16	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	1.5	U	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.4	J D	1.2	7.4
Freon 22	1.5	J D	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.79	4.2
Chloromethane	1.5	J D	0.57	3.1
n-Butane	220	D	0.55	3.6
Vinyl chloride	0.31	U	0.24	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	3.9	U	0.67	3.9
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	2.0	J D	0.64	3.4
Freon TF	4.6	U	1.7	4.6
1,1-Dichloroethene	2.4	U	0.43	2.4
Acetone	25	J D	6.1	36
Isopropyl alcohol	37	U	7.2	37
Carbon disulfide	4.7	U	0.40	4.7

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA01-092315**

Lab Sample ID: 200-29972-2 | Date Sampled: 09/23/2015 1719
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5 2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	130	D	0.57	2.1
1,1-Dichloroethane	2.4	U	0.30	2.4
Methyl Ethyl Ketone	4.2	J D	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.41	2.4
1,2-Dichloroethene, Total	4.7	U	0.41	4.7
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	3.3	U	0.75	3.3
Cyclohexane	18	D	0.40	2 1
Carbon tetrachloride	0.75	U	0.60	0 75
2,2,4-Trimethylpentane	51	D	0.54	2.8
Benzene	41	D	0.40	1.9
1,2-Dichloroethane	2.4	U	0.50	2.4
n-Heptane	35	D	0.49	2.5
Trichloroethene	0.64	U	0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.0	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	3.3	J D	0.61	6.1
Toluene	220	D	1.0	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	4.1	U	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.67	2.8
Ethylbenzene	31	D	0.43	2.6
m,p-Xylene	110	D	0.92	6.5
Xylene, o-	31	D	0.48	2.6
Xylene (total)	140	D	0.48	9.1
Styrene	2.5	U	0.55	2.5
Bromoform	6.2	U	1.7	6.2
Cumene	1.8	J D	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.90	4.1
n-Propylbenzene	2.2	J D	0.63	2.9
4-Ethyltoluene	3.4	D	0.65	2.9
1,3,5-Trimethylbenzene	2.0	J D	0.57	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA01-092315**

Lab Sample ID: 200-29972-2
Client Matrix: Air

Date Sampled: 09/23/2015 1719
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	4.4	D	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	7.8	U	0.89	7.8

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS02-092315**

Lab Sample ID: 200-29972-3
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date.	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.44	J	0.32	2.0
Freon 22	2.0	U	0.23	2.0
1,2-Dichlorotetrafluoroethane	0.80	U	0.15	0.80
Chloromethane	2.0	U	0.37	2.0
n-Butane	4.7		0.31	2.0
Vinyl chloride	0.16	U	0.13	0.16
1,3-Butadiene	0.80	U	0.36	0.80
Bromomethane	0.80	U	0.22	0.80
Chloroethane	2.0	U	0.34	2.0
Bromoethene(Vinyl Bromide)	0.80	U	0.18	0.80
Trichlorofluoromethane	1.0		0.15	0.80
Freon TF	0.80	U	0.30	0.80
1,1-Dichloroethene	0.80	U	0.14	0.80
Acetone	7.1	J	3.4	20
Isopropyl alcohol	20	U	3.9	20
Carbon disulfide	1.6	J	0.17	2.0
3-Chloropropene	2.0	U	0.27	2.0
Methylene Chloride	2.0	U	0.72	2.0
tert-Butyl alcohol	20	U	3.4	20
Methyl tert-butyl ether	0.80	U	0.36	0.80
trans-1,2-Dichloroethene	0.80	U	0.17	0.80
n-Hexane	0.89		0.22	0.80
1,1-Dichloroethane	0.80	U	0.10	0.80
Methyl Ethyl Ketone	0.60	J	0.21	2.0
cis-1,2-Dichloroethene	0.80	U	0.14	0.80
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	3.5		0.33	0.80
Tetrahydrofuran	20	U	5.6	20
1,1,1-Trichloroethane	0.75	J	0.18	0.80
Cyclohexane	0.37	J	0.16	0.80
Carbon tetrachloride	0.16	U	0.13	0.16
2,2,4-Trimethylpentane	0.80	U	0.16	0.80
Benzene	0.84		0.17	0.80
1,2-Dichloroethane	0.80	U	0.16	0.80
n-Heptane	0.68	J	0.16	0.80
Trichloroethene	63		0.16	0.16
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.80	U	0.11	0.80
1,4-Dioxane	20	U	2.2	20
Bromodichloromethane	0.85		0.12	0.80
cis-1,3-Dichloropropene	0.80	U	0.092	0.80
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	2.8		0.37	0.80
trans-1,3-Dichloropropene	0.80	U	0.14	0.80
1,1,2-Trichloroethane	0.80	U	0.16	0.80
Tetrachloroethene	0.51	J	0.092	0.80

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS02-092315

Lab Sample ID: 200-29972-3
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 4.0
Analysis Date: 10/05/2015 2327
Prep Date: 10/05/2015 2327

Analysis Batch: 200-95027
Prep Batch: N/A

Instrument ID: CHX.i
Lab File ID: 16087_19.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	0.80	U	0.18	0.80
1,2-Dibromoethane	0.80	U	0.16	0.80
Chlorobenzene	0.80	U	0.20	0.80
Ethylbenzene	0.32	J	0.13	0.80
m,p-Xylene	1.4	J	0.28	2.0
Xylene, o-	0.50	J	0.15	0.80
Xylene (total)	1.9	J	0.15	2.8
Styrene	0.80	U	0.17	0.80
Bromoform	0.80	U	0.22	0.80
Cumene	0.80	U	0.12	0.80
1,1,2,2-Tetrachloroethane	0.80	U	0.18	0.80
n-Propylbenzene	0.80	U	0.17	0.80
4-Ethyltoluene	0.80	U	0.18	0.80
1,3,5-Trimethylbenzene	0.25	J	0.16	0.80
2-Chlorotoluene	0.80	U	0.13	0.80
tert-Butylbenzene	0.80	U	0.18	0.80
1,2,4-Trimethylbenzene	0.65	J	0.17	0.80
sec-Butylbenzene	0.80	U	0.18	0.80
4-Isopropyltoluene	0.80	U	0.15	0.80
1,3-Dichlorobenzene	0.80	U	0.22	0.80
1,4-Dichlorobenzene	0.80	U	0.23	0.80
Benzyl chloride	0.80	U	0.21	0.80
n-Butylbenzene	0.80	U	0.19	0.80
1,2-Dichlorobenzene	0.80	U	0.22	0.80
1,2,4-Trichlorobenzene	2.0	U	0.27	2.0
Hexachlorobutadiene	0.80	U	0.33	0.80
Naphthalene	2.0	U	0.23	2.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.2	J	1.6	9.9
Freon 22	7.1	U	0.81	7.1
1,2-Dichlorotetrafluoroethane	5.6	U	1.1	5.6
Chloromethane	4.1	U	0.77	4.1
n-Butane	11		0.74	4.8
Vinyl chloride	0.41	U	0.33	0.41
1,3-Butadiene	1.8	U	0.79	1.8
Bromomethane	3.1	U	0.87	3.1
Chloroethane	5.3	U	0.90	5.3
Bromoethene(Vinyl Bromide)	3.5	U	0.77	3.5
Trichlorofluoromethane	5.7		0.85	4.5
Freon TF	6.1	U	2.3	6.1
1,1-Dichloroethene	3.2	U	0.57	3.2
Acetone	17	J	8.2	48
Isopropyl alcohol	49	U	9.6	49
Carbon disulfide	4.9	J	0.54	6.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS02-092315

Lab Sample ID: 200-29972-3
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	6.3	U	0.85	6.3
Methylene Chloride	6.9	U	2.5	6.9
tert-Butyl alcohol	61	U	10	61
Methyl tert-butyl ether	2.9	U	1.3	2.9
trans-1,2-Dichloroethene	3.2	U	0.68	3.2
n-Hexane	3.1		0.76	2.8
1,1-Dichloroethane	3.2	U	0.40	3.2
Methyl Ethyl Ketone	1.8	J	0.61	5.9
cis-1,2-Dichloroethene	3.2	U	0.56	3.2
1,2-Dichloroethene, Total	6.3	U	0.56	6 3
Chloroform	17		1.6	3.9
Tetrahydrofuran	59	U	17	59
1,1,1-Trichloroethane	4.1	J	1.0	4.4
Cyclohexane	1.3	J	0.54	2.8
Carbon tetrachloride	1.0	U	0.81	1.0
2,2,4-Trimethylpentane	3.7	U	0.73	3.7
Benzene	2.7		0.54	2.6
1,2-Dichloroethane	3.2	U	0.66	3.2
n-Heptane	2.8	J	0.66	3.3
Trichloroethene	340		0.84	0.86
Methyl methacrylate	8.2	U	0.66	8.2
1,2-Dichloropropane	3.7	U	0.50	3.7
1,4-Dioxane	72	U	8.1	72
Bromodichloromethane	5.7		0.80	5.4
cis-1,3-Dichloropropene	3.6	U	0.42	3.6
methyl isobutyl ketone	8.2	U	0.82	8.2
Toluene	11		1.4	3.0
trans-1,3-Dichloropropene	3.6	U	0.62	3.6
1,1,2-Trichloroethane	4.4	U	0.85	4.4
Tetrachloroethene	3.5	J	0.62	5.4
Methyl Butyl Ketone (2-Hexanone)	8.2	U	0.93	8.2
Dibromochloromethane	6.8	U	1.5	6.8
1,2-Dibromoethane	6.1	U	1.2	6.1
Chlorobenzene	3.7	U	0.90	3.7
Ethylbenzene	1.4	J	0.57	3.5
m,p-Xylene	6.0	J	1.2	8.7
Xylene, o-	2.2	J	0.64	3.5
Xylene (total)	8.3	J	0.64	12
Styrene	3.4	U	0.73	3.4
Bromoform	8.3	U	2.3	8.3
Cumene	3.9	U	0.59	3.9
1,1,2,2-Tetrachloroethane	5.5	U	1.2	5.5
n-Propylbenzene	3.9	U	0.85	3.9
4-Ethyltoluene	3.9	U	0.87	3.9
1,3,5-Trimethylbenzene	1.3	J	0.77	3 9
2-Chlorotoluene	4.1	U	0.68	4.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS02-092315

Lab Sample ID: 200-29972-3
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	4.4	U	0.97	4.4
1,2,4-Trimethylbenzene	3.2	J	0.85	3.9
sec-Butylbenzene	4.4	U	0.97	4.4
4-Isopropyltoluene	4.4	U	0.81	4.4
1,3-Dichlorobenzene	4.8	U	1.3	4.8
1,4-Dichlorobenzene	4.8	U	1.4	4.8
Benzyl chloride	4.1	U	1.1	4.1
n-Butylbenzene	4.4	U	1.0	4.4
1,2-Dichlorobenzene	4.8	U	1.3	4.8
1,2,4-Trichlorobenzene	15	U	2.0	15
Hexachlorobutadiene	8.5	U	3.5	8.5
Naphthalene	10	U	1.2	10

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA02-092315**

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/29/2015 1616
Prep Date: 09/29/2015 1616

Analysis Batch: 200-94728
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 15991_008.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.54		0.080	0.50
Freon 22	0.32	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.52		0.093	0.50
n-Butane	~~98~~ 110	~~E~~	0.39 ~~0.078~~	~~0.50~~ 2.5
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.25		0.038	0.20
Freon TF	0.081	J	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	22		0.86	5.0
Isopropyl alcohol	2.3	J	0.98	5.0
Carbon disulfide	0.14	J	0.043	0 50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.28	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	21		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	3.3		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	3.9		0.039	0.20
Carbon tetrachloride	0.074		0.032	0.040
2,2,4-Trimethylpentane	12		0.039	0.20
Benzene	6.2		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	4.2		0.040	0.20
Trichloroethene	0.044		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	3.0		0.050	0.50
Toluene	28		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0 20
Tetrachloroethene	0.16	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.55		0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	4.2		0.033	0.20
m,p-Xylene	16		0.071	0.50
Xylene, o-	6.0		0.037	0.20
Xylene (total)	22		0.037	0.70
Styrene	0.20	U	0.043	0 20
Bromoform	0.20	U	0.056	0.20
Cumene	0.79		0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.99		0.043	0.20
4-Ethyltoluene	2 5		0.044	0.20
1,3,5-Trimethylbenzene	2.8		0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	11		0.043	0.20
sec-Butylbenzene	0.27		0.044	0.20
4-Isopropyltoluene	1.3		0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0 057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	1.2		0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	15		0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.7		0.40	2.5
Freon 22	1.1	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.1		0.19	1.0
n-Butane	230	E	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.4		0.21	1.1
Freon TF	0.62	J	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	51		2.0	12
Isopropyl alcohol	5.7	J	2.4	12
Carbon disulfide	0.45	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA02-092315**

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.97	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	73		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	9.6		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1 6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	13		0.13	0.69
Carbon tetrachloride	0.47		0.20	0.25
2,2,4-Trimethylpentane	54		0.18	0.93
Benzene	20		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	17		0.16	0.82
Trichloroethene	0.23		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0 92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	12		0.20	2.0
Toluene	100		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.1	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.3		0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	18		0.14	0.87
m,p-Xylene	68		0.31	2.2
Xylene, o-	26		0.16	0.87
Xylene (total)	96		0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	3.9		0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	4.9		0.21	0.98
4-Ethyltoluene	12		0.22	0.98
1,3,5-Trimethylbenzene	14		0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	56		0.21	0.98
sec-Butylbenzene	1.5		0.24	1.1
4-Isopropyltoluene	7.2		0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	6.9		0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	78		0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.57	J D	0.40	2.5
Freon 22	0.36	J D	0.29	2.5
1,2-Dichlorotetrafluoroethane	1.0	U	0.19	1.0
Chloromethane	0.57	J D	0.47	2.5
n-Butane	110	D	0.39	2.5
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	1.0	U	0.45	1.0
Bromomethane	1.0	U	0.28	1.0
Chloroethane	2.5	U	0.43	2.5
Bromoethene(Vinyl Bromide)	1.0	U	0.22	1.0
Trichlorofluoromethane	0.26	J D	0.19	1.0
Freon TF	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.18	1.0
Acetone	23	J D	4.3	25
Isopropyl alcohol	25	U	4.9	25
Carbon disulfide	2.5	U	0.22	2.5
3-Chloropropene	2.5	U	0.34	2.5
Methylene Chloride	2.5	U	0.90	2.5
tert-Butyl alcohol	25	U	4.3	25
Methyl tert-butyl ether	1.0	U	0.45	1.0
trans-1,2-Dichloroethene	1.0	U	0.22	1.0
n-Hexane	20	D	0.27	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.7	D	0.26	2.5
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
1,2-Dichloroethene, Total	2.0	U	0.18	2.0
Chloroform	1.0	U	0.41	1.0
Tetrahydrofuran	25	U	7.0	25
1,1,1-Trichloroethane	1.0	U	0.23	1.0
Cyclohexane	3.5	D	0.20	1.0
Carbon tetrachloride	0.20	U	0.16	0.20
2,2,4-Trimethylpentane	11	D	0.20	1.0
Benzene	6.6	D	0.21	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
n-Heptane	3.8	D	0.20	1.0
Trichloroethene	0.20	U	0.20	0.20
Methyl methacrylate	2.5	U	0.20	2.5
1,2-Dichloropropane	1.0	U	0.14	1.0
1,4-Dioxane	25	U	2.8	25
Bromodichloromethane	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.12	1.0
methyl isobutyl ketone	2.4	J D	0.25	2.5
Toluene	30	D	0.47	1.0
trans-1,3-Dichloropropene	1.0	U	0.17	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	0.16	J D	0.12	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA02-092315**

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.5	U	0.29	2.5
Dibromochloromethane	1.0	U	0.22	1.0
1,2-Dibromoethane	1.0	U	0.20	1.0
Chlorobenzene	1.0	U	0.25	1.0
Ethylbenzene	4.0	D	0.17	1.0
m,p-Xylene	17	D	0.36	2.5
Xylene, o-	5.5	D	0.19	1.0
Xylene (total)	23	D	0.19	3.5
Styrene	1.0	U	0.22	1.0
Bromoform	1.0	U	0.28	1.0
Cumene	0.67	J D	0.15	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
n-Propylbenzene	0.89	J D	0.22	1.0
4-Ethyltoluene	2.5	D	0.22	1.0
1,3,5-Trimethylbenzene	2.7	D	0.20	1.0
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.0	U	0.22	1.0
1,2,4-Trimethylbenzene	12	D	0.22	1.0
sec-Butylbenzene	1.0	U	0.22	1.0
4-Isopropyltoluene	1.3	D	0.19	1.0
1,3-Dichlorobenzene	1.0	U	0.28	1.0
1,4-Dichlorobenzene	1.0	U	0.29	1.0
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.5	D	0.24	1.0
1,2-Dichlorobenzene	1.0	U	0.28	1.0
1,2,4-Trichlorobenzene	2.5	U	0.34	2.5
Hexachlorobutadiene	1.0	U	0.41	1.0
Naphthalene	15	D	0.29	2.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.8	J D	2.0	12
Freon 22	1.3	J D	1.0	8.8
1,2-Dichlorotetrafluoroethane	7.0	U	1.3	7.0
Chloromethane	1.2	J D	0.96	5.2
n-Butane	260	D	0.93	5.9
Vinyl chloride	0.51	U	0.41	0.51
1,3-Butadiene	2.2	U	0.98	2.2
Bromomethane	3.9	U	1.1	3.9
Chloroethane	6.6	U	1.1	6.6
Bromoethene(Vinyl Bromide)	4.4	U	0.96	4.4
Trichlorofluoromethane	1.5	J D	1.1	5.6
Freon TF	7.7	U	2.9	7.7
1,1-Dichloroethene	4.0	U	0.71	4.0
Acetone	53	J D	10	59
Isopropyl alcohol	61	U	12	61
Carbon disulfide	7.8	U	0.67	7.8

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA02-092315**

Lab Sample ID: 200-29972-4 | Date Sampled: 09/23/2015 1717
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	7.8	U	1.1	7.8
Methylene Chloride	8.7	U	3.1	8.7
tert-Butyl alcohol	76	U	13	76
Methyl tert-butyl ether	3.6	U	1.6	3.6
trans-1,2-Dichloroethene	4.0	U	0.85	4.0
n-Hexane	69	D	0.95	3.5
1,1-Dichloroethane	4.0	U	0.51	4.0
Methyl Ethyl Ketone	8.0	D	0.77	7.4
cis-1,2-Dichloroethene	4.0	U	0.69	4.0
1,2-Dichloroethene, Total	7.9	U	0.69	7.9
Chloroform	4.9	U	2.0	4.9
Tetrahydrofuran	74	U	21	74
1,1,1-Trichloroethane	5.5	U	1.3	5.5
Cyclohexane	12	D	0.67	3.4
Carbon tetrachloride	1.3	U	1.0	1.3
2,2,4-Trimethylpentane	53	D	0.91	4.7
Benzene	21	D	0.67	3.2
1,2-Dichloroethane	4.0	U	0.83	4.0
n-Heptane	16	D	0.82	4.1
Trichloroethene	1.1	U	1.0	1.1
Methyl methacrylate	10	U	0.82	10
1,2-Dichloropropane	4.6	U	0.62	4.6
1,4-Dioxane	90	U	10	90
Bromodichloromethane	6.7	U	1.0	6.7
cis-1,3-Dichloropropene	4.5	U	0.52	4.5
methyl isobutyl ketone	9.6	J D	1.0	10
Toluene	110	D	1.8	3.8
trans-1,3-Dichloropropene	4.5	U	0.77	4.5
1,1,2-Trichloroethane	5.5	U	1.1	5.5
Tetrachloroethene	1.1	J D	0.78	6.8
Methyl Butyl Ketone (2-Hexanone)	10	U	1.2	10
Dibromochloromethane	8.5	U	1.9	8.5
1,2-Dibromoethane	7.7	U	1.5	7.7
Chlorobenzene	4.6	U	1.1	4.6
Ethylbenzene	17	D	0.72	4.3
m,p-Xylene	72	D	1.5	11
Xylene, o-	24	D	0.80	4.3
Xylene (total)	98	D	0.80	15
Styrene	4.3	U	0.92	4.3
Bromoform	10	U	2.9	10
Cumene	3.3	J D	0.74	4.9
1,1,2,2-Tetrachloroethane	6.9	U	1.5	6.9
n-Propylbenzene	4.4	J D	1.1	4.9
4-Ethyltoluene	12	D	1.1	4.9
1,3,5-Trimethylbenzene	13	D	0.96	4.9
2-Chlorotoluene	5.2	U	0.85	5.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA02-092315**

Lab Sample ID: 200-29972-4
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	5.5	U	1.2	5.5
1,2,4-Trimethylbenzene	57	D	1.1	4.9
sec-Butylbenzene	5.5	U	1.2	5.5
4-Isopropyltoluene	7.3	D	1.0	5.5
1,3-Dichlorobenzene	6.0	U	1.7	6.0
1,4-Dichlorobenzene	6.0	U	1.7	6.0
Benzyl chloride	5.2	U	1.4	5.2
n-Butylbenzene	8.3	D	1.3	5.5
1,2-Dichlorobenzene	6.0	U	1.7	6.0
1,2,4-Trichlorobenzene	19	U	2.5	19
Hexachlorobutadiene	11	U	4.4	11
Naphthalene	79	D	1.5	13

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS03-092315

Lab Sample ID: 200-29972-5
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.3		0.080	0.50
Freon 22	0.17	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.34	J	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	4.2		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	4.3	J	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.27	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.44	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.22		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.75		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	9.6		0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.12		0.032	0.040
2,2,4-Trimethylpentane	0.055	J	0.039	0.20
Benzene	0.12	J	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.12	J	0.040	0.20
Trichloroethene	0.20		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.46	J	0.050	0.50
Toluene	0.48		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.054	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS03-092315

Lab Sample ID: 200-29972-5
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0 057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.068	J	0.033	0.20
m,p-Xylene	0.25	J	0.071	0.50
Xylene, o-	0.092	J	0.037	0.20
Xylene (total)	0.34	J	0.037	0.70
Styrene	0.066	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0 20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.068	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	6.2		0.40	2.5
Freon 22	0.59	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1 0	U	0.19	1.0
n-Butane	0.81	J	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	24		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	10	J	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	0.84	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS03-092315**

Lab Sample ID: 200-29972-5
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.5	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.79		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	2.2		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0 79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0 98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	52		0.25	1.1
Cyclohexane	0.69	U	0.13	0.69
Carbon tetrachloride	0.74		0.20	0.25
2,2,4-Trimethylpentane	0.25	J	0.18	0.93
Benzene	0.40	J	0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.48	J	0.16	0.82
Trichloroethene	1.1		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	1.9	J	0.20	2.0
Toluene	1.8		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.37	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.30	J	0.14	0.87
m,p-Xylene	1.1	J	0.31	2.2
Xylene, o-	0.40	J	0.16	0.87
Xylene (total)	1.5	J	0.16	3.0
Styrene	0.28	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS03-092315

Lab Sample ID: 200-29972-5
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.36	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA03-092315**

Lab Sample ID: 200-29972-6
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/29/2015 1755
Prep Date: 09/29/2015 1755

Analysis Batch: 200-94728
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 15991_010.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.65		0.080	0.50
Freon 22	0.44	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.53		0.093	0.50
n-Butane	4.0		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	32		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.19	J	0.036	0.20
Acetone	4.4	J	0.86	5.0
Isopropyl alcohol	1.5	J	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.21	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.41		0.054	0.20
1,1-Dichloroethane	0.057	J	0.025	0.20
Methyl Ethyl Ketone	0.65		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.10	J	0.046	0.20
Cyclohexane	0.099	J	0.039	0.20
Carbon tetrachloride	0.093		0.032	0.040
2,2,4-Trimethylpentane	0.14	J	0.039	0.20
Benzene	0.32		0.042	0.20
1,2-Dichloroethane	0.12	J	0.041	0.20
n-Heptane	0.097	J	0.040	0.20
Trichloroethene	0.047		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.65		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.20	U	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA03-092315

Lab Sample ID: 200-29972-6
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/29/2015 1755
Prep Date: 09/29/2015 1755

Analysis Batch: 200-94728
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 15991_010.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0 50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.095	J	0.033	0.20
m,p-Xylene	0.33	J	0.071	0 50
Xylene, o-	0.12	J	0.037	0.20
Xylene (total)	0.45	J	0.037	0 70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.083	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.2		0.40	2.5
Freon 22	1.6	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.1		0.19	1.0
n-Butane	9.5		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	180		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.76	J	0.14	0.79
Acetone	11	J	2.0	12
Isopropyl alcohol	3.7	J	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA03-092315

Lab Sample ID: 200-29972-6
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1755			Final Weight/Volume:	200 mL
Prep Date.	09/29/2015 1755			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.72	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	1.4		0.19	0.70
1,1-Dichloroethane	0.23	J	0.10	0.81
Methyl Ethyl Ketone	1.9		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	0.55	J	0.25	1.1
Cyclohexane	0.34	J	0.13	0.69
Carbon tetrachloride	0.58		0.20	0.25
2,2,4-Trimethylpentane	0.68	J	0.18	0.93
Benzene	1.0		0.13	0.64
1,2-Dichloroethane	0.47	J	0.17	0 81
n-Heptane	0.40	J	0.16	0.82
Trichloroethene	0.26		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	2.5		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.41	J	0.14	0.87
m,p-Xylene	1.4	J	0.31	2.2
Xylene, o-	0.51	J	0.16	0.87
Xylene (total)	2.0	J	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA03-092315**

Lab Sample ID: 200-29972-6
Client Matrix: Air

Date Sampled: 09/23/2015 1731
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1755			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1755			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.41	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS04-092315

Lab Sample ID: 200-29972-7
Client Matrix: Air

Date Sampled: 09/23/2015 1746
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.0	J	0.80	5.0
Freon 22	5.0	U	0.57	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.38	2.0
Chloromethane	5.0	U	0.93	5.0
n-Butane	5.0	U	0.78	5.0
Vinyl chloride	0.40	U	0.32	0.40
1,3-Butadiene	2.0	U	0.89	2.0
Bromomethane	2.0	U	0.56	2.0
Chloroethane	5.0	U	0.85	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.44	2.0
Trichlorofluoromethane	34		0.38	2.0
Freon TF	2.0	U	0.75	2.0
1,1-Dichloroethene	5.1		0.36	2.0
Acetone	14	J	8.6	50
Isopropyl alcohol	50	U	9.8	50
Carbon disulfide	5.0	U	0.43	5.0
3-Chloropropene	5.0	U	0.68	5.0
Methylene Chloride	5.0	U	1.8	5.0
tert-Butyl alcohol	50	U	8.5	50
Methyl tert-butyl ether	2.0	U	0.89	2.0
trans-1,2-Dichloroethene	2.0	U	0.43	2.0
n-Hexane	2.0	U	0.54	2.0
1,1-Dichloroethane	2.0	U	0.25	2.0
Methyl Ethyl Ketone	5.0	U	0.52	5.0
cis-1,2-Dichloroethene	2.0	U	0.35	2.0
1,2-Dichloroethene, Total	4.0	U	0.35	4.0
Chloroform	33		0.82	2.0
Tetrahydrofuran	50	U	14	50
1,1,1-Trichloroethane	20		0.46	2.0
Cyclohexane	2.0	U	0.39	2.0
Carbon tetrachloride	0.40	U	0.32	0.40
2,2,4-Trimethylpentane	2.0	U	0.39	2.0
Benzene	0.48	J	0.42	2.0
1,2-Dichloroethane	2.0	U	0.41	2.0
n-Heptane	2.0	U	0.40	2.0
Trichloroethene	210		0.39	0.40
Methyl methacrylate	5.0	U	0.40	5.0
1,2-Dichloropropane	2.0	U	0.27	2.0
1,4-Dioxane	50	U	5.6	50
Bromodichloromethane	2.9		0.30	2.0
cis-1,3-Dichloropropene	2.0	U	0.23	2.0
methyl isobutyl ketone	5.0	U	0.50	5.0
Toluene	2.0	U	0.93	2.0
trans-1,3-Dichloropropene	2.0	U	0.34	2.0
1,1,2-Trichloroethane	2.0	U	0.39	2.0
Tetrachloroethene	2.4		0.23	2.0

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS04-092315**

Lab Sample ID: 200-29972-7 | Date Sampled: 09/23/2015 1746
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.57	5.0
Dibromochloromethane	2.0	U	0.44	2.0
1,2-Dibromoethane	2.0	U	0.39	2.0
Chlorobenzene	2.0	U	0.49	2.0
Ethylbenzene	2.0	U	0.33	2.0
m,p-Xylene	5.0	U	0.71	5.0
Xylene, o-	2.0	U	0.37	2.0
Xylene (total)	7.0	U	0.37	7.0
Styrene	2.0	U	0.43	2.0
Bromoform	2.0	U	0.56	2.0
Cumene	2.0	U	0.30	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.44	2.0
n-Propylbenzene	2.0	U	0.43	2.0
4-Ethyltoluene	2.0	U	0.44	2.0
1,3,5-Trimethylbenzene	2.0	U	0.39	2.0
2-Chlorotoluene	2.0	U	0.33	2.0
tert-Butylbenzene	2.0	U	0.44	2.0
1,2,4-Trimethylbenzene	2.0	U	0.43	2.0
sec-Butylbenzene	2.0	U	0.44	2.0
4-Isopropyltoluene	2.0	U	0.37	2.0
1,3-Dichlorobenzene	2.0	U	0.55	2.0
1,4-Dichlorobenzene	2.0	U	0.57	2.0
Benzyl chloride	2.0	U	0.53	2.0
n-Butylbenzene	2.0	U	0.47	2.0
1,2-Dichlorobenzene	2.0	U	0.55	2.0
1,2,4-Trichlorobenzene	5.0	U	0.68	5.0
Hexachlorobutadiene	2.0	U	0.82	2.0
Naphthalene	5.0	U	0.57	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	20	J	4.0	25
Freon 22	18	U	2.0	18
1,2-Dichlorotetrafluoroethane	14	U	2.7	14
Chloromethane	10	U	1.9	10
n-Butane	12	U	1.9	12
Vinyl chloride	1.0	U	0.82	1.0
1,3-Butadiene	4.4	U	2.0	4.4
Bromomethane	7.8	U	2.2	7.8
Chloroethane	13	U	2.2	13
Bromoethene(Vinyl Bromide)	8.7	U	1.9	8.7
Trichlorofluoromethane	190		2.1	11
Freon TF	15	U	5.7	15
1,1-Dichloroethene	20		1.4	7.9
Acetone	33	J	20	120
Isopropyl alcohol	120	U	24	120
Carbon disulfide	16	U	1.3	16

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS04-092315**

Lab Sample ID: 200-29972-7 | Date Sampled: 09/23/2015 1746
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	16	U	2.1	16
Methylene Chloride	17	U	6.3	17
tert-Butyl alcohol	150	U	26	150
Methyl tert-butyl ether	7.2	U	3.2	7.2
trans-1,2-Dichloroethene	7.9	U	1.7	7.9
n-Hexane	7.0	U	1.9	7.0
1,1-Dichloroethane	8.1	U	1.0	8.1
Methyl Ethyl Ketone	15	U	1.5	15
cis-1,2-Dichloroethene	7.9	U	1.4	7.9
1,2-Dichloroethene, Total	16	U	1.4	16
Chloroform	160		4.0	9 8
Tetrahydrofuran	150	U	41	150
1,1,1-Trichloroethane	110		2.5	11
Cyclohexane	6.9	U	1.3	6.9
Carbon tetrachloride	2.5	U	2.0	2.5
2,2,4-Trimethylpentane	9.3	U	1.8	9.3
Benzene	1.5	J	1.3	6.4
1,2-Dichloroethane	8.1	U	1.7	8.1
n-Heptane	8.2	U	1.6	8.2
Trichloroethene	1100		2.1	2.1
Methyl methacrylate	20	U	1.6	20
1,2-Dichloropropane	9.2	U	1.2	9.2
1,4-Dioxane	180	U	20	180
Bromodichloromethane	20		2.0	13
cis-1,3-Dichloropropene	9.1	U	1.0	9.1
methyl isobutyl ketone	20	U	2.0	20
Toluene	7.5	U	3.5	7.5
trans-1,3-Dichloropropene	9.1	U	1.5	9.1
1,1,2-Trichloroethane	11	U	2.1	11
Tetrachloroethene	17		1.6	14
Methyl Butyl Ketone (2-Hexanone)	20	U	2.3	20
Dibromochloromethane	17	U	3.7	17
1,2-Dibromoethane	15	U	3.0	15
Chlorobenzene	9.2	U	2.3	9.2
Ethylbenzene	8.7	U	1.4	8.7
m,p-Xylene	22	U	3.1	22
Xylene, o-	8.7	U	1.6	8.7
Xylene (total)	30	U	1.6	30
Styrene	8.5	U	1.8	8.5
Bromoform	21	U	5.8	21
Cumene	9.8	U	1.5	9.8
1,1,2,2-Tetrachloroethane	14	U	3.0	14
n-Propylbenzene	9.8	U	2.1	9.8
4-Ethyltoluene	9.8	U	2.2	9.8
1,3,5-Trimethylbenzene	9.8	U	1.9	9.8
2-Chlorotoluene	10	U	1.7	10

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS04-092315**

Lab Sample ID: 200-29972-7
Client Matrix: Air

Date Sampled: 09/23/2015 1746
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	11	U	2.4	11
1,2,4-Trimethylbenzene	9.8	U	2.1	9.8
sec-Butylbenzene	11	U	2.4	11
4-Isopropyltoluene	11	U	2.0	11
1,3-Dichlorobenzene	12	U	3.3	12
1,4-Dichlorobenzene	12	U	3.4	12
Benzyl chloride	10	U	2.7	10
n-Butylbenzene	11	U	2.6	11
1,2-Dichlorobenzene	12	U	3.3	12
1,2,4-Trichlorobenzene	37	U	5.0	37
Hexachlorobutadiene	21	U	8.7	21
Naphthalene	26	U	3.0	26

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA04-092315

Lab Sample ID: 200-29972-8
Client Matrix: Air

Date Sampled: 09/23/2015 1746
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60		0.080	0.50
Freon 22	0.40	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	1.3		0.093	0.50
n-Butane	2.8		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.14	J	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	32		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.14	J	0.036	0.20
Acetone	14		0.86	5.0
Isopropyl alcohol	1.2	J	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.19	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.36		0.054	0.20
1,1-Dichloroethane	0 035	J	0.025	0.20
Methyl Ethyl Ketone	2.3		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.18	J	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.058	J	0.046	0.20
Cyclohexane	0.11	J	0.039	0.20
Carbon tetrachloride	0.062		0.032	0.040
2,2,4-Trimethylpentane	0.11	J	0.039	0.20
Benzene	0.26		0.042	0.20
1,2-Dichloroethane	0.066	J	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	4.3	J	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.17	J	0.050	0.50
Toluene	0.53		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.20	U	0.023	0.20

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA04-092315**

Lab Sample ID: 200-29972-8 | Date Sampled: 09/23/2015 1746
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.34	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.077	J	0.033	0 20
m,p-Xylene	0.24	J	0.071	0.50
Xylene, o-	0.12	J	0.037	0.20
Xylene (total)	0.36	J	0.037	0.70
Styrene	0.054	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0 043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.069	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9		0.40	2.5
Freon 22	1.4	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	2.6		0.19	1.0
n-Butane	6.8		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	0.37	J	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	180		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.57	J	0.14	0.79
Acetone	34		2.0	12
Isopropyl alcohol	3.1	J	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA04-092315**

Lab Sample ID: 200-29972-8 | Date Sampled: 09/23/2015 1746
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.65	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	1.3		0.19	0 70
1,1-Dichloroethane	0.14	J	0.10	0.81
Methyl Ethyl Ketone	6.8		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.88	J	0.40	0 98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	0.32	J	0.25	1.1
Cyclohexane	0.39	J	0.13	0.69
Carbon tetrachloride	0.39		0.20	0.25
2,2,4-Trimethylpentane	0.51	J	0.18	0.93
Benzene	0.83		0.13	0.64
1,2-Dichloroethane	0.27	J	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0 21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	15	J	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.69	J	0.20	2.0
Toluene	2.0		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	1.4	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.33	J	0.14	0.87
m,p-Xylene	1.0	J	0.31	2.2
Xylene, o-	0.53	J	0.16	0.87
Xylene (total)	1.6	J	0.16	3.0
Styrene	0.23	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA04-092315

Lab Sample ID: 200-29972-8
Client Matrix: Air

Date Sampled: 09/23/2015 1746
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.34	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1 1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2 6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS05-092315**

Lab Sample ID: 200-29972-9
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 176
Analysis Date: 09/29/2015 2023
Prep Date: 09/29/2015 2023

Analysis Batch: 200-94728
Prep Batch: N/A

Instrument ID: CHW i
Lab File ID: 15991_013.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	88	U	14	88
Freon 22	88	U	10	88
1,2-Dichlorotetrafluoroethane	35	U	6.7	35
Chloromethane	88	U	16	88
n-Butane	25	J	14	88
Vinyl chloride	7.0	U	5.6	7.0
1,3-Butadiene	35	U	16	35
Bromomethane	35	U	9.9	35
Chloroethane	88	U	15	88
Bromoethene(Vinyl Bromide)	35	U	7.7	35
Trichlorofluoromethane	73		6.7	35
Freon TF	35	U	13	35
1,1-Dichloroethene	~~17000~~ 19000	~~E~~	~~6.3~~ 33	~~35~~ 190
Acetone	880	U	150	880
Isopropyl alcohol	880	U	170	880
Carbon disulfide	88	U	7.6	88
3-Chloropropene	88	U	12	88
Methylene Chloride	88	U	32	88
tert-Butyl alcohol	880	U	150	880
Methyl tert-butyl ether	35	U	16	35
trans-1,2-Dichloroethene	35	U	7.6	35
n-Hexane	35	U	9.5	35
1,1-Dichloroethane	4200		4.4	35
Methyl Ethyl Ketone	88	U	9.2	88
cis-1,2-Dichloroethene	35	U	6.2	35
1,2-Dichloroethene, Total	70	U	6.2	70
Chloroform	35	U	14	35
Tetrahydrofuran	880	U	250	880
1,1,1-Trichloroethane	35		8.1	35
Cyclohexane	35	U	6.9	35
Carbon tetrachloride	7.0	U	5.6	7.0
2,2,4-Trimethylpentane	35	U	6.9	35
Benzene	14	J	7.4	35
1,2-Dichloroethane	32	J	7.2	35
n-Heptane	35	U	7.0	35
Trichloroethene	460		6.9	7.0
Methyl methacrylate	88	U	7.0	88
1,2-Dichloropropane	35	U	4.8	35
1,4-Dioxane	880	U	99	880
Bromodichloromethane	35	U	5.3	35
cis-1,3-Dichloropropene	35	U	4.0	35
methyl isobutyl ketone	88	U	8.8	88
Toluene	35	U	16	35
trans-1,3-Dichloropropene	35	U	6.0	35
1,1,2-Trichloroethane	35	U	6.9	35
Tetrachloroethene	35	U	4.0	35

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS05-092315**

Lab Sample ID: 200-29972-9 | Date Sampled: 09/23/2015 1751
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	88	U	10	88
Dibromochloromethane	35	U	7.7	35
1,2-Dibromoethane	35	U	6.9	35
Chlorobenzene	35	U	8.6	35
Ethylbenzene	35	U	5.8	35
m,p-Xylene	88	U	12	88
Xylene, o-	35	U	6.5	35
Xylene (total)	120	U	6.5	120
Styrene	35	U	7.6	35
Bromoform	35	U	9.9	35
Cumene	35	U	5.3	35
1,1,2,2-Tetrachloroethane	35	U	7.7	35
n-Propylbenzene	35	U	7.6	35
4-Ethyltoluene	35	U	7.7	35
1,3,5-Trimethylbenzene	35	U	6.9	35
2-Chlorotoluene	35	U	5.8	35
tert-Butylbenzene	35	U	7.7	35
1,2,4-Trimethylbenzene	35	U	7.6	35
sec-Butylbenzene	35	U	7.7	35
4-Isopropyltoluene	35	U	6.5	35
1,3-Dichlorobenzene	35	U	9.7	35
1,4-Dichlorobenzene	35	U	10	35
Benzyl chloride	35	U	9.3	35
n-Butylbenzene	35	U	8.3	35
1,2-Dichlorobenzene	35	U	9.7	35
1,2,4-Trichlorobenzene	88	U	12	88
Hexachlorobutadiene	35	U	14	35
Naphthalene	88	U	10	88

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	440	U	70	440
Freon 22	310	U	35	310
1,2-Dichlorotetrafluoroethane	250	U	47	250
Chloromethane	180	U	34	180
n-Butane	59	J	33	210
Vinyl chloride	18	U	14	18
1,3-Butadiene	78	U	35	78
Bromomethane	140	U	38	140
Chloroethane	230	U	39	230
Bromoethene(Vinyl Bromide)	150	U	34	150
Trichlorofluoromethane	410		38	200
Freon TF	270	U	100	270
1,1-Dichloroethene	67000	E	25	140
Acetone	2100	U	360	2100
Isopropyl alcohol	2200	U	420	2200
Carbon disulfide	270	U	24	270

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	280	U	37	280
Methylene Chloride	310	U	110	310
tert-Butyl alcohol	2700	U	450	2700
Methyl tert-butyl ether	130	U	56	130
trans-1,2-Dichloroethene	140	U	30	140
n-Hexane	120	U	33	120
1,1-Dichloroethane	17000		18	140
Methyl Ethyl Ketone	260	U	27	260
cis-1,2-Dichloroethene	140	U	24	140
1,2-Dichloroethene, Total	280	U	24	280
Chloroform	170	U	70	170
Tetrahydrofuran	2600	U	730	2600
1,1,1-Trichloroethane	190		44	190
Cyclohexane	120	U	24	120
Carbon tetrachloride	44	U	35	44
2,2,4-Trimethylpentane	160	U	32	160
Benzene	44	J	24	110
1,2-Dichloroethane	130	J	29	140
n-Heptane	140	U	29	140
Trichloroethene	2400		37	38
Methyl methacrylate	360	U	29	360
1,2-Dichloropropane	160	U	22	160
1,4-Dioxane	3200	U	360	3200
Bromodichloromethane	240	U	35	240
cis-1,3-Dichloropropene	160	U	18	160
methyl isobutyl ketone	360	U	36	360
Toluene	130	U	62	130
trans-1,3-Dichloropropene	160	U	27	160
1,1,2-Trichloroethane	190	U	37	190
Tetrachloroethene	240	U	27	240
Methyl Butyl Ketone (2-Hexanone)	360	U	41	360
Dibromochloromethane	300	U	66	300
1,2-Dibromoethane	270	U	53	270
Chlorobenzene	160	U	40	160
Ethylbenzene	150	U	25	150
m,p-Xylene	380	U	54	380
Xylene, o-	150	U	28	150
Xylene (total)	530	U	28	530
Styrene	150	U	32	150
Bromoform	360	U	100	360
Cumene	170	U	26	170
1,1,2,2-Tetrachloroethane	240	U	53	240
n-Propylbenzene	170	U	37	170
4-Ethyltoluene	170	U	38	170
1,3,5-Trimethylbenzene	170	U	34	170
2-Chlorotoluene	180	U	30	180

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS05-092315**

Lab Sample ID: 200-29972-9
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	190	U	43	190
1,2,4-Trimethylbenzene	170	U	37	170
sec-Butylbenzene	190	U	43	190
4-Isopropyltoluene	190	U	36	190
1,3-Dichlorobenzene	210	U	58	210
1,4-Dichlorobenzene	210	U	60	210
Benzyl chloride	180	U	48	180
n-Butylbenzene	190	U	45	190
1,2-Dichlorobenzene	210	U	58	210
1,2,4-Trichlorobenzene	650	U	89	650
Hexachlorobutadiene	380	U	150	380
Naphthalene	460	U	53	460

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS05-092315**

Lab Sample ID: 200-29972-9
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	460	U	74	460
Freon 22	460	U	53	460
1,2-Dichlorotetrafluoroethane	190	U	35	190
Chloromethane	460	U	86	460
n-Butane	460	U	72	460
Vinyl chloride	37	U	30	37
1,3-Butadiene	190	U	83	190
Bromomethane	190	U	52	190
Chloroethane	460	U	79	460
Bromoethene(Vinyl Bromide)	190	U	41	190
Trichlorofluoromethane	78	J D	35	190
Freon TF	190	U	70	190
1,1-Dichloroethene	19000	D	33	190
Acetone	4600	U	800	4600
Isopropyl alcohol	4600	U	910	4600
Carbon disulfide	460	U	40	460
3-Chloropropene	460	U	63	460
Methylene Chloride	460	U	170	460
tert-Butyl alcohol	4600	U	790	4600
Methyl tert-butyl ether	190	U	83	190
trans-1,2-Dichloroethene	190	U	40	190
n-Hexane	190	U	50	190
1,1-Dichloroethane	4400	D	23	190
Methyl Ethyl Ketone	460	U	48	460
cis-1,2-Dichloroethene	190	U	32	190
1,2-Dichloroethene, Total	370	U	32	370
Chloroform	190	U	76	190
Tetrahydrofuran	4600	U	1300	4600
1,1,1-Trichloroethane	190	U	43	190
Cyclohexane	190	U	36	190
Carbon tetrachloride	37	U	30	37
2,2,4-Trimethylpentane	190	U	36	190
Benzene	190	U	39	190
1,2-Dichloroethane	190	U	38	190
n-Heptane	190	U	37	190
Trichloroethene	450	D	36	37
Methyl methacrylate	460	U	37	460
1,2-Dichloropropane	190	U	25	190
1,4-Dioxane	4600	U	520	4600
Bromodichloromethane	190	U	28	190
cis-1,3-Dichloropropene	190	U	21	190
methyl isobutyl ketone	460	U	46	460
Toluene	190	U	86	190
trans-1,3-Dichloropropene	190	U	32	190
1,1,2-Trichloroethane	190	U	36	190
Tetrachloroethene	190	U	21	190

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 | Date Sampled: 09/23/2015 1751
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	460	U	53	460
Dibromochloromethane	190	U	41	190
1,2-Dibromoethane	190	U	36	190
Chlorobenzene	190	U	45	190
Ethylbenzene	190	U	31	190
m,p-Xylene	460	U	66	460
Xylene, o-	190	U	34	190
Xylene (total)	650	U	34	650
Styrene	190	U	40	190
Bromoform	190	U	52	190
Cumene	190	U	28	190
1,1,2,2-Tetrachloroethane	190	U	41	190
n-Propylbenzene	190	U	40	190
4-Ethyltoluene	190	U	41	190
1,3,5-Trimethylbenzene	190	U	36	190
2-Chlorotoluene	190	U	31	190
tert-Butylbenzene	190	U	41	190
1,2,4-Trimethylbenzene	190	U	40	190
sec-Butylbenzene	190	U	41	190
4-Isopropyltoluene	190	U	34	190
1,3-Dichlorobenzene	190	U	51	190
1,4-Dichlorobenzene	190	U	53	190
Benzyl chloride	190	U	49	190
n-Butylbenzene	190	U	44	190
1,2-Dichlorobenzene	190	U	51	190
1,2,4-Trichlorobenzene	460	U	63	460
Hexachlorobutadiene	190	U	76	190
Naphthalene	460	U	53	460

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2300	U	370	2300
Freon 22	1600	U	190	1600
1,2-Dichlorotetrafluoroethane	1300	U	250	1300
Chloromethane	960	U	180	960
n-Butane	1100	U	170	1100
Vinyl chloride	95	U	76	95
1,3-Butadiene	410	U	180	410
Bromomethane	720	U	200	720
Chloroethane	1200	U	210	1200
Bromoethene(Vinyl Bromide)	810	U	180	810
Trichlorofluoromethane	440	J D	200	1000
Freon TF	1400	U	530	1400
1,1-Dichloroethene	76000	D	130	740
Acetone	11000	U	1900	11000
Isopropyl alcohol	11000	U	2200	11000
Carbon disulfide	1400	U	120	1400

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1500	U	200	1500
Methylene Chloride	1600	U	580	1600
tert-Butyl alcohol	14000	U	2400	14000
Methyl tert-butyl ether	670	U	300	670
trans-1,2-Dichloroethene	740	U	160	740
n-Hexane	650	U	180	650
1,1-Dichloroethane	18000	D	94	750
Methyl Ethyl Ketone	1400	U	140	1400
cis-1,2-Dichloroethene	740	U	130	740
1,2-Dichloroethene, Total	1500	U	130	1500
Chloroform	910	U	370	910
Tetrahydrofuran	14000	U	3800	14000
1,1,1-Trichloroethane	1000	U	230	1000
Cyclohexane	640	U	120	640
Carbon tetrachloride	230	U	190	230
2,2,4-Trimethylpentane	870	U	170	870
Benzene	590	U	120	590
1,2-Dichloroethane	750	U	150	750
n-Heptane	760	U	150	760
Trichloroethene	2400	D	190	200
Methyl methacrylate	1900	U	150	1900
1,2-Dichloropropane	860	U	120	860
1,4-Dioxane	17000	U	1900	17000
Bromodichloromethane	1200	U	190	1200
cis-1,3-Dichloropropene	840	U	97	840
methyl isobutyl ketone	1900	U	190	1900
Toluene	700	U	320	700
trans-1,3-Dichloropropene	840	U	140	840
1,1,2-Trichloroethane	1000	U	200	1000
Tetrachloroethene	1300	U	140	1300
Methyl Butyl Ketone (2-Hexanone)	1900	U	220	1900
Dibromochloromethane	1600	U	350	1600
1,2-Dibromoethane	1400	U	280	1400
Chlorobenzene	850	U	210	850
Ethylbenzene	810	U	130	810
m,p-Xylene	2000	U	290	2000
Xylene, o-	810	U	150	810
Xylene (total)	2800	U	150	2800
Styrene	790	U	170	790
Bromoform	1900	U	540	1900
Cumene	910	U	140	910
1,1,2,2-Tetrachloroethane	1300	U	280	1300
n-Propylbenzene	910	U	200	910
4-Ethyltoluene	910	U	200	910
1,3,5-Trimethylbenzene	910	U	180	910
2-Chlorotoluene	960	U	160	960

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS05-092315**

Lab Sample ID: 200-29972-9 | Date Sampled: 09/23/2015 1751
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1000	U	220	1000
1,2,4-Trimethylbenzene	910	U	200	910
sec-Butylbenzene	1000	U	220	1000
4-Isopropyltoluene	1000	U	190	1000
1,3-Dichlorobenzene	1100	U	310	1100
1,4-Dichlorobenzene	1100	U	320	1100
Benzyl chloride	960	U	250	960
n-Butylbenzene	1000	U	240	1000
1,2-Dichlorobenzene	1100	U	310	1100
1,2,4-Trichlorobenzene	3400	U	470	3400
Hexachlorobutadiene	2000	U	810	2000
Naphthalene	2400	U	280	2400

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/29/2015 2202
Prep Date: 09/29/2015 2202

Analysis Batch: 200-94728
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 15991_015.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.76		0.080	0.50
Freon 22	0.77		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.64		0.093	0.50
n-Butane	7.4		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	~~72~~ 55	~~E~~	~~0.056~~ 0.11	~~0.20~~ 0.6
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	1.7		0.036	0.20
Acetone	11		0.86	5.0
Isopropyl alcohol	13		0.98	5.0
Carbon disulfide	0.13	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.32	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.85		0.054	0.20
1,1-Dichloroethane	0.56		0.025	0.20
Methyl Ethyl Ketone	1.1		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.77		0.046	0.20
Cyclohexane	0.25		0.039	0.20
Carbon tetrachloride	0.095		0.032	0.040
2,2,4-Trimethylpentane	0.42		0.039	0.20
Benzene	0.71		0.042	0.20
1,2-Dichloroethane	0.70		0.041	0.20
n-Heptane	0.26		0.040	0.20
Trichloroethene	0.049		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.22	J	0.050	0.50
Toluene	1.9		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.064	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.25		0.033	0.20
m,p-Xylene	0.92		0.071	0.50
Xylene, o-	0.33		0.037	0.20
Xylene (total)	1.3		0.037	0.70
Styrene	0.17	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.042	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.051	J	0.043	0.20
4-Ethyltoluene	0.084	J	0.044	0.20
1,3,5-Trimethylbenzene	0.086	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.35		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.096	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.069	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.16	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.7		0.40	2.5
Freon 22	2.7		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.3		0.19	1.0
n-Butane	17		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	400	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	6.8		0.14	0.79
Acetone	26		2.0	12
Isopropyl alcohol	32		2.4	12
Carbon disulfide	0.39	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.1	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	3.0		0.19	0.70
1,1-Dichloroethane	2.3		0.10	0.81
Methyl Ethyl Ketone	3.3		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	4.2		0.25	1.1
Cyclohexane	0.85		0.13	0.69
Carbon tetrachloride	0.60		0.20	0.25
2,2,4-Trimethylpentane	2.0		0.18	0.93
Benzene	2.3		0.13	0.64
1,2-Dichloroethane	2.8		0.17	0.81
n-Heptane	1.1		0.16	0.82
Trichloroethene	0.26		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.89	J	0.20	2.0
Toluene	7.2		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.43	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	1.1		0.14	0.87
m,p-Xylene	4.0		0.31	2.2
Xylene, o-	1.4		0.16	0.87
Xylene (total)	5.4		0.16	3.0
Styrene	0.73	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.21	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.25	J	0.21	0.98
4-Ethyltoluene	0.41	J	0.22	0.98
1,3,5-Trimethylbenzene	0.42	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10 | Date Sampled: 09/23/2015 1751
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.7		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.53	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.41	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.83	J	0.30	2.6

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10 | Date Sampled: 09/23/2015 1751
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.59	J D	0.24	1.5
Freon 22	0.53	J D	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	0.47	J D	0.28	1.5
n-Butane	5.0	D	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.25	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	55	D	0.11	0.60
Freon TF	0.60	U	0.22	0.60
1,1-Dichloroethene	1.3	D	0.11	0.60
Acetone	8.0	J D	2.6	15
Isopropyl alcohol	9.0	J D	2.9	15
Carbon disulfide	1.5	U	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.5	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	0.59	J D	0.16	0.60
1,1-Dichloroethane	0.43	J D	0.075	0.60
Methyl Ethyl Ketone	0.76	J D	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.10	0.60
1,2-Dichloroethene, Total	1.2	U	0.10	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	0.58	J D	0.14	0.60
Cyclohexane	0.60	U	0.12	0.60
Carbon tetrachloride	0.12	U	0.096	0.12
2,2,4-Trimethylpentane	0.27	J D	0.12	0.60
Benzene	0.52	J D	0.13	0.60
1,2-Dichloroethane	0.50	J D	0.12	0.60
n-Heptane	0.60	U	0.12	0.60
Trichloroethene	0.12	U	0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	1.5	U	0.15	1.5
Toluene	1.3	D	0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.60	U	0.069	0.60

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10 | Date Sampled: 09/23/2015 1751
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0 60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	0.19	J D	0.099	0.60
m,p-Xylene	0 61	J D	0.21	1.5
Xylene, o-	0.21	J D	0.11	0.60
Xylene (total)	0.82	J D	0.11	2.1
Styrene	0 60	U	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.60	U	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.60	U	0.13	0.60
4-Ethyltoluene	0.60	U	0.13	0.60
1,3,5-Trimethylbenzene	0.60	U	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.24	J D	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.16	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.16	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	1.5	U	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9	J D	1.2	7.4
Freon 22	1.9	J D	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.79	4.2
Chloromethane	0.98	J D	0.57	3.1
n-Butane	12	D	0.55	3.6
Vinyl chloride	0.31	U	0.24	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	3.9	U	0.67	3.9
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	310	D	0.64	3.4
Freon TF	4.6	U	1.7	4.6
1,1-Dichloroethene	5.1	D	0.43	2.4
Acetone	19	J D	6.1	36
Isopropyl alcohol	22	J D	7.2	37
Carbon disulfide	4 7	U	0.40	4.7

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	2.1	J D	0.57	2.1
1,1-Dichloroethane	1.8	J D	0.30	2.4
Methyl Ethyl Ketone	2.2	J D	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.41	2.4
1,2-Dichloroethene, Total	4.7	U	0.41	4.7
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	3.2	J D	0.75	3.3
Cyclohexane	2.1	U	0.40	2.1
Carbon tetrachloride	0.75	U	0.60	0.75
2,2,4-Trimethylpentane	1.3	J D	0.54	2.8
Benzene	1.7	J D	0.40	1.9
1,2-Dichloroethane	2.0	J D	0.50	2.4
n-Heptane	2.5	U	0.49	2.5
Trichloroethene	0.64	U	0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.0	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	6.1	U	0.61	6.1
Toluene	4.8	D	1.0	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	4.1	U	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.67	2.8
Ethylbenzene	0.84	J D	0.43	2.6
m,p-Xylene	2.7	J D	0.92	6.5
Xylene, o-	0.90	J D	0.48	2.6
Xylene (total)	3.6	J D	0.48	9.1
Styrene	2.5	U	0.55	2.5
Bromoform	6.2	U	1.7	6.2
Cumene	2.9	U	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.90	4.1
n-Propylbenzene	2.9	U	0.63	2.9
4-Ethyltoluene	2.9	U	0.65	2.9
1,3,5-Trimethylbenzene	2.9	U	0.57	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA05-092315**

Lab Sample ID: 200-29972-10
Client Matrix: Air

Date Sampled: 09/23/2015 1751
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	1.2	J D	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	7.8	U	0.89	7.8

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS06-092315**

Lab Sample ID: 200-29972-11
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 10/06/2015 0105
Prep Date: 10/06/2015 0105

Analysis Batch: 200-95027
Prep Batch: N/A

Instrument ID: CHX.i
Lab File ID: 16087_21.D
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60		0.080	0.50
Freon 22	0.19	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.19	J	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	21		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	7.2		0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.29	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.18	J	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	1.5		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	2.2	J	1.4	5.0
1,1,1-Trichloroethane	14		0.046	0.20
Cyclohexane	0.27		0.039	0.20
Carbon tetrachloride	0.086		0.032	0.040
2,2,4-Trimethylpentane	0.090	J	0.039	0.20
Benzene	0.23		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.14		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5 0
Bromodichloromethane	0.20	U	0.030	0 20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.62		0.050	0.50
Toluene	0.70		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.90		0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS06-092315

Lab Sample ID: 200-29972-11
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.073	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.094	J	0.033	0.20
m,p-Xylene	0.31	J	0.071	0.50
Xylene, o-	0.13	J	0.037	0.20
Xylene (total)	0.44	J	0.037	0.70
Styrene	0.12	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.062	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.21	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.0		0.40	2.5
Freon 22	0.67	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0	U	0.19	1.0
n-Butane	0.46	J	0.19	1.2
Vinyl chloride	0 10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	120		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	17		2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	0.91	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS06-092315

Lab Sample ID: 200-29972-11
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.63	J	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	4.3		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	6.4	J	4.1	15
1,1,1-Trichloroethane	74		0.25	1.1
Cyclohexane	0.94		0.13	0.69
Carbon tetrachloride	0.54		0.20	0.25
2,2,4-Trimethylpentane	0.42	J	0.18	0.93
Benzene	0.74		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.77		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.6		0.20	2.0
Toluene	2.6		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	6.1		0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.30	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.41	J	0.14	0.87
m,p-Xylene	1.4	J	0.31	2.2
Xylene, o-	0.57	J	0.16	0.87
Xylene (total)	1.9	J	0.16	3.0
Styrene	0.51	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS06-092315**

Lab Sample ID: 200-29972-11 | Date Sampled: 09/23/2015 1759
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.30	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	1.1	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA06-092315**

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.69		0.080	0.50
Freon 22	0.59		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.59		0.093	0.50
n-Butane	5.4		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	~~49~~ 44	~~E~~ 0.046	~~0.038~~	~~0.20~~ 0.4
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.48		0.036	0.20
Acetone	7.0		0.86	5.0
Isopropyl alcohol	4.6	J	0.98	5.0
Carbon disulfide	0.045	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.27	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.59		0.054	0.20
1,1-Dichloroethane	0.16	J	0.025	0.20
Methyl Ethyl Ketone	0.71		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.33		0.046	0.20
Cyclohexane	0.13	J	0.039	0.20
Carbon tetrachloride	0.092		0.032	0.040
2,2,4-Trimethylpentane	0.23		0.039	0.20
Benzene	0.46		0.042	0.20
1,2-Dichloroethane	0.39		0.041	0.20
n-Heptane	0.16	J	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	1.1		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.043	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA06-092315**

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.15	J	0.033	0.20
m,p-Xylene	0.51	J	0.071	0.50
Xylene, o-	0.18	J	0.037	0.20
Xylene (total)	0.69	J	0.037	0.70
Styrene	0.076	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.12	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.037	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.4		0.40	2.5
Freon 22	2.1		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	13		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	270	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	1.9		0.14	0.79
Acetone	17		2.0	12
Isopropyl alcohol	11	J	2.4	12
Carbon disulfide	0.14	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA06-092315**

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.95	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	2.1		0.19	0.70
1,1-Dichloroethane	0.66	J	0.10	0.81
Methyl Ethyl Ketone	2.1		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.8		0.25	1.1
Cyclohexane	0.45	J	0.13	0.69
Carbon tetrachloride	0.58		0.20	0.25
2,2,4-Trimethylpentane	1.1		0.18	0.93
Benzene	1.5		0.13	0.64
1,2-Dichloroethane	1.6		0.17	0.81
n-Heptane	0.66	J	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	4.0		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.29	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.66	J	0.14	0.87
m,p-Xylene	2.2		0.31	2.2
Xylene, o-	0.79	J	0.16	0.87
Xylene (total)	3.0	J	0.16	3.0
Styrene	0.32	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA06-092315**

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.61	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.20	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA06-092315**

Lab Sample ID: 200-29972-12 | Date Sampled: 09/23/2015 1759
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60	J D	0.16	1.0
Freon 22	0.50	J D	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	0.54	J D	0.19	1.0
n-Butane	4.3	D	0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	44	D	0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.44	D	0.072	0.40
Acetone	6.2	J D	1.7	10
Isopropyl alcohol	4.0	J D	2.0	10
Carbon disulfide	1.0	U	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	1.0	U	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.49	D	0.11	0.40
1,1-Dichloroethane	0.13	J D	0.050	0.40
Methyl Ethyl Ketone	0.54	J D	0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	0.30	J D	0.092	0.40
Cyclohexane	0.40	U	0.078	0.40
Carbon tetrachloride	0.080	D	0.064	0.080
2,2,4-Trimethylpentane	0.19	J D	0.078	0.40
Benzene	0.43	D	0.084	0.40
1,2-Dichloroethane	0.34	J D	0.082	0.40
n-Heptane	0.12	J D	0.080	0.40
Trichloroethene	0.080	U	0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	1.0	U	0.10	1.0
Toluene	0.87	D	0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0.078	0.40
Tetrachloroethene	0.40	U	0.046	0.40

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.14	J D	0.066	0.40
m,p-Xylene	0.46	J D	0.14	1.0
Xylene, o-	0.15	J D	0.074	0.40
Xylene (total)	0.61	J D	0.074	1.4
Styrene	0.40	U	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.40	U	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.10	J D	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9	J D	0.79	4.9
Freon 22	1.8	J D	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	1.1	J D	0.38	2.1
n-Butane	10	D	0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	250	D	0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	1.8	D	0.29	1.6
Acetone	15	J D	4.1	24
Isopropyl alcohol	9.9	J D	4.8	25
Carbon disulfide	3.1	U	0.27	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received. 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.48	3.1
Methylene Chloride	3.5	U	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	1.7	D	0.38	1.4
1,1-Dichloroethane	0.53	J D	0.20	1.6
Methyl Ethyl Ketone	1.6	J D	0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	1.7	J D	0.50	2.2
Cyclohexane	1.4	U	0.27	1.4
Carbon tetrachloride	0.50	D	0.40	0.50
2,2,4-Trimethylpentane	0.88	J D	0.36	1.9
Benzene	1.4	D	0.27	1.3
1,2-Dichloroethane	1.4	J D	0.33	1.6
n-Heptane	0.50	J D	0.33	1.6
Trichloroethene	0.43	U	0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	4.1	U	0.41	4.1
Toluene	3.3	D	0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	2.7	U	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.59	J D	0.29	1.7
m,p-Xylene	2.0	J D	0.62	4.3
Xylene, o-	0.64	J D	0.32	1.7
Xylene (total)	2.6	J D	0.32	6.1
Styrene	1.7	U	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	2.0	U	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA06-092315**

Lab Sample ID: 200-29972-12
Client Matrix: Air

Date Sampled: 09/23/2015 1759
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	0.50	J D	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS07-092315

Lab Sample ID: 200-29972-13
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received. 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.64	U	0.40	2.5
Freon 22	2.5	U	0.29	2.5
1,2-Dichlorotetrafluoroethane	1.0	U	0.19	1.0
Chloromethane	2.5	U	0.47	2.5
n-Butane	2.5	U	0.39	2.5
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	1.0	U	0.45	1.0
Bromomethane	1.0	U	0.28	1.0
Chloroethane	2.5	U	0.43	2.5
Bromoethene(Vinyl Bromide)	1.0	U	0.22	1.0
Trichlorofluoromethane	92		0.19	1.0
Freon TF	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.18	1.0
Acetone	25	U	4.3	25
Isopropyl alcohol	25	U	4.9	25
Carbon disulfide	2.5	U	0.22	2.5
3-Chloropropene	2.5	U	0.34	2.5
Methylene Chloride	2.5	U	0.90	2.5
tert-Butyl alcohol	25	U	4.3	25
Methyl tert-butyl ether	1.0	U	0.45	1.0
trans-1,2-Dichloroethene	1.0	U	0.22	1.0
n-Hexane	1.0	U	0.27	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.5	U	0.26	2.5
cis-1,2-Dichloroethene	1.0	U	0 18	1.0
1,2-Dichloroethene, Total	2.0	U	0.18	2.0
Chloroform	1.0	U	0.41	1.0
Tetrahydrofuran	25	U	7.0	25
1,1,1-Trichloroethane	8.8		0.23	1.0
Cyclohexane	1.0	U	0.20	1.0
Carbon tetrachloride	0.20	U	0.16	0.20
2,2,4-Trimethylpentane	1.0	U	0.20	1.0
Benzene	1.0	U	0.21	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
n-Heptane	1.0	U	0.20	1.0
Trichloroethene	0.20	U	0.20	0.20
Methyl methacrylate	2.5	U	0.20	2.5
1,2-Dichloropropane	1.0	U	0.14	1.0
1,4-Dioxane	25	U	2.8	25
Bromodichloromethane	1 0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.12	1.0
methyl isobutyl ketone	2.5	U	0.25	2.5
Toluene	1.0	U	0.47	1.0
trans-1,3-Dichloropropene	1.0	U	0.17	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	0.12	J	0.12	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS07-092315**

Lab Sample ID: 200-29972-13
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.5	U	0.29	2.5
Dibromochloromethane	1.0	U	0.22	1.0
1,2-Dibromoethane	1.0	U	0.20	1.0
Chlorobenzene	1.0	U	0.25	1.0
Ethylbenzene	1.0	U	0.17	1.0
m,p-Xylene	2.5	U	0.36	2.5
Xylene, o-	1.0	U	0.19	1.0
Xylene (total)	3.5	U	0.19	3.5
Styrene	1.0	U	0.22	1.0
Bromoform	1.0	U	0.28	1.0
Cumene	1.0	U	0.15	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
n-Propylbenzene	1.0	U	0.22	1.0
4-Ethyltoluene	1.0	U	0.22	1.0
1,3,5-Trimethylbenzene	1.0	U	0.20	1.0
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.0	U	0.22	1.0
1,2,4-Trimethylbenzene	1.0	U	0.22	1.0
sec-Butylbenzene	1.0	U	0.22	1.0
4-Isopropyltoluene	1.0	U	0.19	1.0
1,3-Dichlorobenzene	1.0	U	0.28	1.0
1,4-Dichlorobenzene	1.0	U	0.29	1.0
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.0	U	0.24	1.0
1,2-Dichlorobenzene	1.0	U	0.28	1.0
1,2,4-Trichlorobenzene	2.5	U	0.34	2.5
Hexachlorobutadiene	1.0	U	0.41	1.0
Naphthalene	2.5	U	0.29	2.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.2	J	2.0	12
Freon 22	8.8	U	1.0	8.8
1,2-Dichlorotetrafluoroethane	7.0	U	1.3	7.0
Chloromethane	5.2	U	0.96	5.2
n-Butane	5.9	U	0.93	5.9
Vinyl chloride	0.51	U	0.41	0.51
1,3-Butadiene	2.2	U	0.98	2.2
Bromomethane	3.9	U	1.1	3.9
Chloroethane	6.6	U	1.1	6.6
Bromoethene(Vinyl Bromide)	4.4	U	0.96	4.4
Trichlorofluoromethane	520		1.1	5.6
Freon TF	7.7	U	2.9	7.7
1,1-Dichloroethene	4.0	U	0.71	4.0
Acetone	59	U	10	59
Isopropyl alcohol	61	U	12	61
Carbon disulfide	7.8	U	0.67	7.8

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS07-092315**

Lab Sample ID: 200-29972-13
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	7.8	U	1.1	7.8
Methylene Chloride	8.7	U	3.1	8.7
tert-Butyl alcohol	76	U	13	76
Methyl tert-butyl ether	3.6	U	1.6	3.6
trans-1,2-Dichloroethene	4.0	U	0.85	4.0
n-Hexane	3.5	U	0.95	3.5
1,1-Dichloroethane	4.0	U	0.51	4.0
Methyl Ethyl Ketone	7.4	U	0.77	7.4
cis-1,2-Dichloroethene	4.0	U	0.69	4.0
1,2-Dichloroethene, Total	7.9	U	0.69	7.9
Chloroform	4.9	U	2.0	4.9
Tetrahydrofuran	74	U	21	74
1,1,1-Trichloroethane	48		1.3	5.5
Cyclohexane	3.4	U	0.67	3.4
Carbon tetrachloride	1.3	U	1.0	1.3
2,2,4-Trimethylpentane	4.7	U	0.91	4.7
Benzene	3.2	U	0.67	3.2
1,2-Dichloroethane	4.0	U	0.83	4.0
n-Heptane	4.1	U	0.82	4.1
Trichloroethene	1.1	U	1.0	1.1
Methyl methacrylate	10	U	0.82	10
1,2-Dichloropropane	4.6	U	0.62	4.6
1,4-Dioxane	90	U	10	90
Bromodichloromethane	6.7	U	1.0	6.7
cis-1,3-Dichloropropene	4.5	U	0.52	4.5
methyl isobutyl ketone	10	U	1.0	10
Toluene	3.8	U	1.8	3.8
trans-1,3-Dichloropropene	4.5	U	0.77	4.5
1,1,2-Trichloroethane	5.5	U	1.1	5.5
Tetrachloroethene	0.80	J	0.78	6.8
Methyl Butyl Ketone (2-Hexanone)	10	U	1.2	10
Dibromochloromethane	8.5	U	1.9	8.5
1,2-Dibromoethane	7.7	U	1.5	7.7
Chlorobenzene	4.6	U	1.1	4.6
Ethylbenzene	4.3	U	0.72	4.3
m,p-Xylene	11	U	1.5	11
Xylene, o-	4.3	U	0.80	4.3
Xylene (total)	15	U	0.80	15
Styrene	4.3	U	0.92	4.3
Bromoform	10	U	2.9	10
Cumene	4.9	U	0.74	4.9
1,1,2,2-Tetrachloroethane	6.9	U	1.5	6.9
n-Propylbenzene	4.9	U	1.1	4.9
4-Ethyltoluene	4.9	U	1.1	4.9
1,3,5-Trimethylbenzene	4.9	U	0.96	4.9
2-Chlorotoluene	5.2	U	0.85	5.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS07-092315**

Lab Sample ID: 200-29972-13
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	5.5	U	1.2	5.5
1,2,4-Trimethylbenzene	4.9	U	1.1	4.9
sec-Butylbenzene	5.5	U	1.2	5.5
4-Isopropyltoluene	5.5	U	1.0	5.5
1,3-Dichlorobenzene	6.0	U	1.7	6.0
1,4-Dichlorobenzene	6.0	U	1.7	6.0
Benzyl chloride	5.2	U	1.4	5.2
n-Butylbenzene	5.5	U	1.3	5.5
1,2-Dichlorobenzene	6.0	U	1.7	6.0
1,2,4-Trichlorobenzene	19	U	2.5	19
Hexachlorobutadiene	11	U	4.4	11
Naphthalene	13	U	1.5	13

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/30/2015 1653
Prep Date: 09/30/2015 1653

Analysis Batch: 200-94809
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 16024_008.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.57		0.080	0.50
Freon 22	0.55		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50		0.093	0.50
n-Butane	3.9		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.089	J	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	~~40~~ 45	~~E~~	~~0.038~~ 0.096	~~0.20~~ 0.4
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.53		0.036	0.20
Acetone	6.6		0.86	5.0
Isopropyl alcohol	3.7	J	0.98	5.0
Carbon disulfide	0.18	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.23	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.45		0.054	0.20
1,1-Dichloroethane	0.15	J	0.025	0.20
Methyl Ethyl Ketone	0.79		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.40		0.046	0.20
Cyclohexane	0.14	J	0.039	0.20
Carbon tetrachloride	0.085		0.032	0.040
2,2,4-Trimethylpentane	0.21		0.039	0.20
Benzene	0.43		0.042	0.20
1,2-Dichloroethane	0.53		0.041	0.20
n-Heptane	0.14	J	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	1.0		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.051	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/30/2015 1653
Prep Date: 09/30/2015 1653

Analysis Batch: 200-94809
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 16024_008.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.12	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.14	J	0.033	0.20
m,p-Xylene	0.49	J	0.071	0.50
Xylene, o-	0.18	J	0.037	0.20
Xylene (total)	0.67	J	0.037	0.70
Styrene	0.13	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.050	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.16	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.063	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.060	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.12	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.8		0.40	2.5
Freon 22	1.9		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0		0.19	1.0
n-Butane	9.3		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	0.23	J	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	230	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	2.1		0.14	0.79
Acetone	16		2.0	12
Isopropyl alcohol	9.1	J	2.4	12
Carbon disulfide	0.58	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1653			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1653			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.81	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	1.6		0.19	0.70
1,1-Dichloroethane	0.62	J	0.10	0.81
Methyl Ethyl Ketone	2.3		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	2.2		0.25	1.1
Cyclohexane	0.48	J	0.13	0.69
Carbon tetrachloride	0.53		0.20	0.25
2,2,4-Trimethylpentane	0.97		0.18	0.93
Benzene	1.4		0.13	0.64
1,2-Dichloroethane	2.2		0.17	0.81
n-Heptane	0.59	J	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	3.8		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.35	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.50	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.63	J	0.14	0.87
m,p-Xylene	2.1	J	0.31	2.2
Xylene, o-	0.79	J	0.16	0.87
Xylene (total)	2.9	J	0.16	3.0
Styrene	0.54	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.25	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1653			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1653			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.77	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.35	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.36	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.66	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.66	J D	0.16	1.0
Freon 22	0.64	J D	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	0.58	J D	0.19	1.0
n-Butane	4.6	D	0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	45	D	0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.54	D	0.072	0.40
Acetone	7.4	J D	1.7	10
Isopropyl alcohol	4.1	J D	2.0	10
Carbon disulfide	0.21	J D	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	1.0	U	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.45	D	0.11	0.40
1,1-Dichloroethane	0.16	J D	0.050	0.40
Methyl Ethyl Ketone	0.79	J D	0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	0.42	D	0.092	0.40
Cyclohexane	0.40	U	0.078	0.40
Carbon tetrachloride	0.078	J D	0.064	0.080
2,2,4-Trimethylpentane	0.20	J D	0.078	0.40
Benzene	0.47	D	0.084	0.40
1,2-Dichloroethane	0.58	D	0.082	0.40
n-Heptane	0.40	U	0.080	0.40
Trichloroethene	0.080	U	0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	1.0	U	0.10	1.0
Toluene	0.95	D	0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0.078	0.40
Tetrachloroethene	0.40	U	0.046	0.40

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.14	J D	0.066	0.40
m,p-Xylene	0.42	J D	0.14	1.0
Xylene, o-	0.16	J D	0.074	0.40
Xylene (total)	0.58	J D	0.074	1.4
Styrene	0.099	J D	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.40	U	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.12	J D	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.3	J D	0.79	4.9
Freon 22	2.3	J D	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	1.2	J D	0.38	2.1
n-Butane	11	D	0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	250	D	0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	2.1	D	0.29	1.6
Acetone	18	J D	4.1	24
Isopropyl alcohol	10	J D	4.8	25
Carbon disulfide	0.64	J D	0.27	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	3.5	U	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	1.6	D	0.38	1.4
1,1-Dichloroethane	0.65	J D	0.20	1.6
Methyl Ethyl Ketone	2.3	J D	0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	2.3	D	0.50	2.2
Cyclohexane	1.4	U	0.27	1.4
Carbon tetrachloride	0.49	J D	0.40	0.50
2,2,4-Trimethylpentane	0.92	J D	0.36	1.9
Benzene	1.5	D	0.27	1.3
1,2-Dichloroethane	2.4	D	0.33	1.6
n-Heptane	1.6	U	0.33	1.6
Trichloroethene	0.43	U	0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	4.1	U	0.41	4.1
Toluene	3.6	D	0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	2.7	U	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.62	J D	0.29	1.7
m,p-Xylene	1.8	J D	0.62	4.3
Xylene, o-	0.69	J D	0.32	1.7
Xylene (total)	2.5	J D	0.32	6.1
Styrene	0.42	J D	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	2.0	U	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	0.58	J D	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS08-092315**

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	20	U	3.2	20
Freon 22	20	U	2.3	20
1,2-Dichlorotetrafluoroethane	7.9	U	1.5	7.9
Chloromethane	20	U	3.7	20
n-Butane	20		3.1	20
Vinyl chloride	1.6	U	1.3	1.6
1,3-Butadiene	7.9	U	3.5	7.9
Bromomethane	7.9	U	2.2	7.9
Chloroethane	280		3.4	20
Bromoethene(Vinyl Bromide)	7.9	U	1.7	7.9
Trichlorofluoromethane	63		1.5	7.9
Freon TF	7.9	U	3.0	7.9
1,1-Dichloroethene	~~3600~~ 4400	~~E~~	~~1.4~~ 0.85	~~7.9~~ 36
Acetone	200	U	34	200
Isopropyl alcohol	200	U	39	200
Carbon disulfide	20	U	1.7	20
3-Chloropropene	20	U	2.7	20
Methylene Chloride	20	U	7.1	20
tert-Butyl alcohol	200	U	34	200
Methyl tert-butyl ether	7.9	U	3.5	7.9
trans-1,2-Dichloroethene	7.9	U	1.7	7.9
n-Hexane	7.9	U	2.1	7.9
1,1-Dichloroethane	~~1700~~ 2000	~~E~~	~~0.89~~ 0.45	~~7.9~~ 36
Methyl Ethyl Ketone	20	U	2.1	20
cis-1,2-Dichloroethene	7.9	U	1.4	7.9
1,2-Dichloroethene, Total	16	U	1.4	16
Chloroform	7.9	U	3.2	7.9
Tetrahydrofuran	200	U	55	200
1,1,1-Trichloroethane	~~2900~~ 3600	~~E~~	~~1.8~~ 0.83	~~7.9~~ 36
Cyclohexane	7.9	U	1.5	7.9
Carbon tetrachloride	1.6	U	1.3	1.6
2,2,4-Trimethylpentane	7.9	U	1.5	7.9
Benzene	7.9	U	1.7	7.9
1,2-Dichloroethane	7.9	U	1.6	7.9
n-Heptane	7.9	U	1.6	7.9
Trichloroethene	13		1.5	1.6
Methyl methacrylate	20	U	1.6	20
1,2-Dichloropropane	7.9	U	1.1	7.9
1,4-Dioxane	200	U	22	200
Bromodichloromethane	7.9	U	1.2	7.9
cis-1,3-Dichloropropene	7.9	U	0.91	7.9
methyl isobutyl ketone	20	U	2.0	20
Toluene	7.9	U	3.7	7.9
trans-1,3-Dichloropropene	7.9	U	1.3	7.9
1,1,2-Trichloroethane	7.9	U	1.5	7.9
Tetrachloroethene	6.2	J	0.91	7.9

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	20	U	2.3	20
Dibromochloromethane	7.9	U	1.7	7.9
1,2-Dibromoethane	7.9	U	1.5	7.9
Chlorobenzene	7.9	U	1.9	7.9
Ethylbenzene	7.9	U	1.3	7.9
m,p-Xylene	20	U	2.8	20
Xylene, o-	7.9	U	1.5	7.9
Xylene (total)	28	U	1.5	28
Styrene	7.9	U	1.7	7.9
Bromoform	7.9	U	2.2	7.9
Cumene	7.9	U	1.2	7.9
1,1,2,2-Tetrachloroethane	7.9	U	1.7	7.9
n-Propylbenzene	7.9	U	1.7	7.9
4-Ethyltoluene	7.9	U	1.7	7.9
1,3,5-Trimethylbenzene	7.9	U	1.5	7.9
2-Chlorotoluene	7.9	U	1.3	7.9
tert-Butylbenzene	7.9	U	1.7	7.9
1,2,4-Trimethylbenzene	7.9	U	1.7	7.9
sec-Butylbenzene	7.9	U	1.7	7.9
4-Isopropyltoluene	7.9	U	1.5	7.9
1,3-Dichlorobenzene	7.9	U	2.2	7.9
1,4-Dichlorobenzene	7.9	U	2.3	7.9
Benzyl chloride	7.9	U	2.1	7.9
n-Butylbenzene	7.9	U	1.9	7.9
1,2-Dichlorobenzene	7.9	U	2.2	7.9
1,2,4-Trichlorobenzene	20	U	2.7	20
Hexachlorobutadiene	7.9	U	3.2	7.9
Naphthalene	20	U	2.3	20

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	98	U	16	98
Freon 22	70	U	8.0	70
1,2-Dichlorotetrafluoroethane	55	U	10	55
Chloromethane	41	U	7.6	41
n-Butane	48		7.3	47
Vinyl chloride	4.0	U	3.2	4.0
1,3-Butadiene	17	U	7.8	17
Bromomethane	31	U	8.6	31
Chloroethane	730		8.9	52
Bromoethene(Vinyl Bromide)	35	U	7.6	35
Trichlorofluoromethane	350		8.4	44
Freon TF	61	U	23	61
1,1-Dichloroethene	14000	E	5.6	31
Acetone	470	U	81	470
Isopropyl alcohol	490	U	95	490
Carbon disulfide	62	U	5.3	62

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	62	U	8.4	62
Methylene Chloride	69	U	25	69
tert-Butyl alcohol	600	U	100	600
Methyl tert-butyl ether	28	U	13	28
trans-1,2-Dichloroethene	31	U	6.7	31
n-Hexane	28	U	7.5	28
1,1-Dichloroethane	7000	E	4.0	32
Methyl Ethyl Ketone	58	U	6.1	58
cis-1,2-Dichloroethene	31	U	5.5	31
1,2-Dichloroethene, Total	63	U	5.5	63
Chloroform	39	U	16	39
Tetrahydrofuran	580	U	160	580
1,1,1-Trichloroethane	16000	E	9.9	43
Cyclohexane	27	U	5.3	27
Carbon tetrachloride	9.9	U	8.0	9.9
2,2,4-Trimethylpentane	37	U	7.2	37
Benzene	25	U	5.3	25
1,2-Dichloroethane	32	U	6.6	32
n-Heptane	32	U	6.5	32
Trichloroethene	68		8.3	8.5
Methyl methacrylate	81	U	6.5	81
1,2-Dichloropropane	37	U	4.9	37
1,4-Dioxane	710	U	80	710
Bromodichloromethane	53	U	7.9	53
cis-1,3-Dichloropropene	36	U	4.1	36
methyl isobutyl ketone	81	U	8.1	81
Toluene	30	U	14	30
trans-1,3-Dichloropropene	36	U	6.1	36
1,1.2-Trichloroethane	43	U	8.4	43
Tetrachloroethene	42	J	6.2	54
Methyl Butyl Ketone (2-Hexanone)	81	U	9.2	81
Dibromochloromethane	67	U	15	67
1,2-Dibromoethane	61	U	12	61
Chlorobenzene	36	U	8.9	36
Ethylbenzene	34	U	5.7	34
m,p-Xylene	86	U	12	86
Xylene, o-	34	U	6.3	34
Xylene (total)	120	U	6.3	120
Styrene	34	U	7.2	34
Bromoform	82	U	23	82
Cumene	39	U	5.8	39
1,1,2,2-Tetrachloroethane	54	U	12	54
n-Propylbenzene	39	U	8.3	39
4-Ethyltoluene	39	U	8.5	39
1,3,5-Trimethylbenzene	39	U	7.6	39
2-Chlorotoluene	41	U	6.7	41

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS08-092315**

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	43	U	9.5	43
1,2,4-Trimethylbenzene	39	U	8.4	39
sec-Butylbenzene	43	U	9.5	43
4-Isopropyltoluene	43	U	8.0	43
1,3-Dichlorobenzene	47	U	13	47
1,4-Dichlorobenzene	47	U	14	47
Benzyl chloride	41	U	11	41
n-Butylbenzene	43	U	10	43
1,2-Dichlorobenzene	47	U	13	47
1,2,4-Trichlorobenzene	150	U	20	150
Hexachlorobutadiene	84	U	35	84
Naphthalene	100	U	12	100

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS08-092315**

Lab Sample ID: 200-29972-15 | Date Sampled: 09/23/2015 1809
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	90	U	14	90
Freon 22	90	U	10	90
1,2-Dichlorotetrafluoroethane	36	U	6.8	36
Chloromethane	90	U	17	90
n-Butane	22	J D	14	90
Vinyl chloride	7.2	U	5.8	7.2
1,3-Butadiene	36	U	16	36
Bromomethane	36	U	10	36
Chloroethane	320	D	15	90
Bromoethene(Vinyl Bromide)	36	U	7.9	36
Trichlorofluoromethane	75	D	6.8	36
Freon TF	36	U	14	36
1,1-Dichloroethene	4400	D	6.5	36
Acetone	900	U	150	900
Isopropyl alcohol	900	U	180	900
Carbon disulfide	90	U	7.7	90
3-Chloropropene	90	U	12	90
Methylene Chloride	90	U	32	90
tert-Butyl alcohol	900	U	150	900
Methyl tert-butyl ether	36	U	16	36
trans-1,2-Dichloroethene	36	U	7.7	36
n-Hexane	36	U	9.7	36
1,1-Dichloroethane	2000	D	4.5	36
Methyl Ethyl Ketone	90	U	9.4	90
cis-1,2-Dichloroethene	36	U	6.3	36
1,2-Dichloroethene, Total	72	U	6.3	72
Chloroform	36	U	15	36
Tetrahydrofuran	900	U	250	900
1,1,1-Trichloroethane	3600	D	8.3	36
Cyclohexane	36	U	7.0	36
Carbon tetrachloride	7.2	U	5.8	7.2
2,2,4-Trimethylpentane	36	U	7.0	36
Benzene	36	U	7.6	36
1,2-Dichloroethane	36	U	7.4	36
n-Heptane	36	U	7.2	36
Trichloroethene	14	D	7.0	7.2
Methyl methacrylate	90	U	7.2	90
1,2-Dichloropropane	36	U	4.9	36
1,4-Dioxane	900	U	100	900
Bromodichloromethane	36	U	5.4	36
cis-1,3-Dichloropropene	36	U	4.1	36
methyl isobutyl ketone	90	U	9.0	90
Toluene	36	U	17	36
trans-1,3-Dichloropropene	36	U	6.1	36
1,1,2-Trichloroethane	36	U	7.0	36
Tetrachloroethene	5.9	J D	4.1	36

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS08-092315**

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	90	U	10	90
Dibromochloromethane	36	U	7.9	36
1,2-Dibromoethane	36	U	7.0	36
Chlorobenzene	36	U	8.8	36
Ethylbenzene	36	U	5.9	36
m,p-Xylene	90	U	13	90
Xylene, o-	36	U	6.7	36
Xylene (total)	130	U	6.7	130
Styrene	36	U	7.7	36
Bromoform	36	U	10	36
Cumene	36	U	5.4	36
1,1,2,2-Tetrachloroethane	36	U	7.9	36
n-Propylbenzene	36	U	7.7	36
4-Ethyltoluene	36	U	7.9	36
1,3,5-Trimethylbenzene	36	U	7.0	36
2-Chlorotoluene	36	U	5.9	36
tert-Butylbenzene	36	U	7.9	36
1,2,4-Trimethylbenzene	36	U	7.7	36
sec-Butylbenzene	36	U	7.9	36
4-Isopropyltoluene	36	U	6.7	36
1,3-Dichlorobenzene	36	U	9.9	36
1,4-Dichlorobenzene	36	U	10	36
Benzyl chloride	36	U	9.5	36
n-Butylbenzene	36	U	8.5	36
1,2-Dichlorobenzene	36	U	9.9	36
1,2,4-Trichlorobenzene	90	U	12	90
Hexachlorobutadiene	36	U	15	36
Naphthalene	90	U	10	90

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	450	U	71	450
Freon 22	320	U	36	320
1,2-Dichlorotetrafluoroethane	250	U	48	250
Chloromethane	190	U	35	190
n-Butane	52	J D	33	210
Vinyl chloride	18	U	15	18
1,3-Butadiene	80	U	35	80
Bromomethane	140	U	39	140
Chloroethane	840	D	40	240
Bromoethene(Vinyl Bromide)	160	U	35	160
Trichlorofluoromethane	420	D	38	200
Freon TF	280	U	100	280
1,1-Dichloroethene	17000	D	26	140
Acetone	2100	U	370	2100
Isopropyl alcohol	2200	U	430	2200
Carbon disulfide	280	U	24	280

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	280	U	38	280
Methylene Chloride	310	U	110	310
tert-Butyl alcohol	2700	U	460	2700
Methyl tert-butyl ether	130	U	58	130
trans-1,2-Dichloroethene	140	U	31	140
n-Hexane	130	U	34	130
1,1-Dichloroethane	8200	D	18	150
Methyl Ethyl Ketone	270	U	28	270
cis-1,2-Dichloroethene	140	U	25	140
1,2-Dichloroethene, Total	290	U	25	290
Chloroform	180	U	72	180
Tetrahydrofuran	2700	U	740	2700
1,1,1-Trichloroethane	20000	D	45	200
Cyclohexane	120	U	24	120
Carbon tetrachloride	45	U	36	45
2,2,4-Trimethylpentane	170	U	33	170
Benzene	120	U	24	120
1,2-Dichloroethane	150	U	30	150
n-Heptane	150	U	30	150
Trichloroethene	76	D	38	39
Methyl methacrylate	370	U	29	370
1,2-Dichloropropane	170	U	22	170
1,4-Dioxane	3200	U	360	3200
Bromodichloromethane	240	U	36	240
cis-1,3-Dichloropropene	160	U	19	160
methyl isobutyl ketone	370	U	37	370
Toluene	140	U	63	140
trans-1,3-Dichloropropene	160	U	28	160
1,1,2-Trichloroethane	200	U	38	200
Tetrachloroethene	40	J D	28	240
Methyl Butyl Ketone (2-Hexanone)	370	U	42	370
Dibromochloromethane	310	U	67	310
1,2-Dibromoethane	280	U	54	280
Chlorobenzene	170	U	41	170
Ethylbenzene	160	U	26	160
m,p-Xylene	390	U	55	390
Xylene, o-	160	U	29	160
Xylene (total)	550	U	29	550
Styrene	150	U	33	150
Bromoform	370	U	100	370
Cumene	180	U	27	180
1,1,2,2-Tetrachloroethane	250	U	54	250
n-Propylbenzene	180	U	38	180
4-Ethyltoluene	180	U	39	180
1,3,5-Trimethylbenzene	180	U	35	180
2-Chlorotoluene	190	U	31	190

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS08-092315**

Lab Sample ID: 200-29972-15
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	200	U	43	200
1,2,4-Trimethylbenzene	180	U	38	180
sec-Butylbenzene	200	U	43	200
4-Isopropyltoluene	200	U	37	200
1,3-Dichlorobenzene	220	U	60	220
1,4-Dichlorobenzene	220	U	62	220
Benzyl chloride	190	U	49	190
n-Butylbenzene	200	U	46	200
1,2-Dichlorobenzene	220	U	60	220
1,2,4-Trichlorobenzene	670	U	91	670
Hexachlorobutadiene	380	U	160	380
Naphthalene	470	U	54	470

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method: TO-15
Prep Method: Summa Canister
Dilution: 1.0
Analysis Date: 09/30/2015 1743
Prep Date: 09/30/2015 1743

Analysis Batch: 200-94809
Prep Batch: N/A

Instrument ID: CHW.i
Lab File ID: 16024_009.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.64		0.080	0.50
Freon 22	0.59		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.56		0.093	0.50
n-Butane	5.2		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	~~58~~ 172	~~E~~	~~0.038~~ 0.11	~~0.20~~ 0.60
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.68		0.036	0.20
Acetone	12		0.86	5.0
Isopropyl alcohol	7.2		0.98	5.0
Carbon disulfide	0.28	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.33	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.69		0.054	0.20
1,1-Dichloroethane	0.23		0.025	0.20
Methyl Ethyl Ketone	1.9		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.49		0.046	0.20
Cyclohexane	0.19	J	0.039	0.20
Carbon tetrachloride	0.093		0.032	0.040
2,2,4-Trimethylpentane	0.32		0.039	0.20
Benzene	0.56		0.042	0.20
1,2-Dichloroethane	0.53		0.041	0.20
n-Heptane	0.20		0.040	0.20
Trichloroethene	0.042		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.13	J	0.050	0.50
Toluene	1.5		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.054	J	0.023	0.20

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16 | Date Sampled: 09/23/2015 1809
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.20	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20		0.033	0.20
m,p-Xylene	0.72		0.071	0.50
Xylene, o-	0.29		0.037	0.20
Xylene (total)	1.0		0.037	0.70
Styrene	0.14	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.039	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.045	J	0.043	0.20
4-Ethyltoluene	0.067	J	0.044	0.20
1,3,5-Trimethylbenzene	0.071	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.23		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.085	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.074	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.24	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.2		0.40	2.5
Freon 22	2.1		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	12		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	320	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	2.7		0.14	0.79
Acetone	29		2.0	12
Isopropyl alcohol	18		2.4	12
Carbon disulfide	0.89	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.2	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	2.4		0.19	0.70
1,1-Dichloroethane	0.91		0.10	0.81
Methyl Ethyl Ketone	5.7		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	2.6		0.25	1.1
Cyclohexane	0.66	J	0.13	0.69
Carbon tetrachloride	0.59		0.20	0.25
2,2,4-Trimethylpentane	1.5		0.18	0.93
Benzene	1.8		0.13	0.64
1,2-Dichloroethane	2.1		0.17	0.81
n-Heptane	0.81		0.16	0.82
Trichloroethene	0.22		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.54	J	0.20	2.0
Toluene	5.6		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.37	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.84	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.85		0.14	0.87
m,p-Xylene	3.1		0.31	2.2
Xylene, o-	1.2		0.16	0.87
Xylene (total)	4.4		0.16	3.0
Styrene	0.60	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.19	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.22	J	0.21	0.98
4-Ethyltoluene	0.33	J	0.22	0.98
1,3,5-Trimethylbenzene	0.35	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.1		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.47	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.44	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	1.2	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received. 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.76	J D	0.24	1.5
Freon 22	0.73	J D	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	0.67	J D	0.28	1.5
n-Butane	6.5	D	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.25	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	72	D	0.11	0.60
Freon TF	0.60	U	0.22	0.60
1,1-Dichloroethene	0.80	D	0.11	0.60
Acetone	14	J D	2.6	15
Isopropyl alcohol	8.1	J D	2.9	15
Carbon disulfide	0.31	J D	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.5	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	0.69	D	0.16	0.60
1,1-Dichloroethane	0.23	J D	0.075	0.60
Methyl Ethyl Ketone	2.0	D	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.10	0.60
1,2-Dichloroethene, Total	1.2	U	0.10	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	0.56	J D	0.14	0.60
Cyclohexane	0.60	U	0.12	0.60
Carbon tetrachloride	0.11	J D	0.096	0.12
2,2,4-Trimethylpentane	0.31	J D	0.12	0.60
Benzene	0.63	D	0.13	0.60
1,2-Dichloroethane	0.62	D	0.12	0.60
n-Heptane	0.60	U	0.12	0.60
Trichloroethene	0.12	U	0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	1.5	U	0.15	1.5
Toluene	1.5	D	0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.60	U	0.069	0.60

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	0.21	J D	0.099	0.60
m,p-Xylene	0.68	J D	0.21	1.5
Xylene, o-	0.27	J D	0.11	0.60
Xylene (total)	0.95	J D	0.11	2.1
Styrene	0.13	J D	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.60	U	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.60	U	0.13	0.60
4-Ethyltoluene	0.60	U	0.13	0.60
1,3,5-Trimethylbenzene	0.60	U	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.21	J D	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.16	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.16	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	0.18	J D	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.8	J D	1.2	7.4
Freon 22	2.6	J D	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.79	4.2
Chloromethane	1.4	J D	0.57	3.1
n-Butane	16	D	0.55	3.6
Vinyl chloride	0.31	U	0.24	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	3.9	U	0.67	3.9
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	400	D	0.64	3.4
Freon TF	4.6	U	1.7	4.6
1,1-Dichloroethene	3.2	D	0.43	2.4
Acetone	34	J D	6.1	36
Isopropyl alcohol	20	J D	7.2	37
Carbon disulfide	0.98	J D	0.40	4.7

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16
Client Matrix: Air

Date Sampled: 09/23/2015 1809
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	2.4	D	0.57	2.1
1,1-Dichloroethane	0.95	J D	0.30	2.4
Methyl Ethyl Ketone	5.9	D	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.41	2.4
1,2-Dichloroethene, Total	4.7	U	0.41	4.7
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	3.1	J D	0.75	3.3
Cyclohexane	2.1	U	0.40	2.1
Carbon tetrachloride	0.67	J D	0.60	0.75
2,2,4-Trimethylpentane	1.5	J D	0.54	2.8
Benzene	2.0	D	0.40	1.9
1,2-Dichloroethane	2.5	D	0.50	2.4
n-Heptane	2.5	U	0.49	2.5
Trichloroethene	0.64	U	0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.0	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	6.1	U	0.61	6.1
Toluene	5.6	D	1.0	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	4.1	U	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.67	2.8
Ethylbenzene	0.93	J D	0.43	2.6
m,p-Xylene	3.0	J D	0.92	6.5
Xylene, o-	1.2	J D	0.48	2.6
Xylene (total)	4.1	J D	0.48	9.1
Styrene	0.56	J D	0.55	2.5
Bromoform	6.2	U	1.7	6.2
Cumene	2.9	U	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.90	4.1
n-Propylbenzene	2.9	U	0.63	2.9
4-Ethyltoluene	2.9	U	0.65	2.9
1,3,5-Trimethylbenzene	2.9	U	0.57	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA08-092315**

Lab Sample ID: 200-29972-16 | Date Sampled: 09/23/2015 1809
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	1.0	J D	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	0.94	J D	0.89	7.8

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: **FR-SS09-092315**

Lab Sample ID: 200-29972-17 Date Sampled: 09/23/2015 1827
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.82	J	0.16	1.0
Freon 22	0.36	J	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	1.0	U	0.19	1.0
n-Butane	0.99	J	0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0 40
Trichlorofluoromethane	46		0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.28	J	0.072	0.40
Acetone	6.0	J	1.7	10
Isopropyl alcohol	10	U	2.0	10
Carbon disulfide	4.5	J	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	0.42	J	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.81		0.11	0.40
1,1-Dichloroethane	1.6		0.050	
Methyl Ethyl Ketone	0.79	J	0.10	
cis-1,2-Dichloroethene	0.40	U	0.070	
1,2-Dichloroethene, Total	0.80	U	0.070	
Chloroform	0.40	U	0.16	
Tetrahydrofuran	10	U	2.8	
1,1,1-Trichloroethane	51		0.092	0.40
Cyclohexane	1.2		0.078	0.40
Carbon tetrachloride	0.080	U	0.064	0.080
2,2,4-Trimethylpentane	0.18	J	0.078	0.40
Benzene	0.33	J	0.084	0.40
1,2-Dichloroethane	0.40	U	0.082	0.40
n-Heptane	0.36	J	0.080	0.40
Trichloroethene	10		0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	0.38	J	0.10	1.0
Toluene	0.82		0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0 078	0.40
Tetrachloroethene	0.37	J	0.046	0.40

0.40 U

Revised to 0.4 U during data validation

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS09-092315**

Lab Sample ID: 200-29972-17
Client Matrix: Air

Date Sampled: 09/23/2015 1827
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.11	J	0.066	0.40
m,p-Xylene	0.60	J	0.14	1.0
Xylene, o-	0.16	J	0.074	0.40
Xylene (total)	0.76	J	0.074	1.4
Styrene	0.40	U	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.098	J	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.40	U	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.0	J	0.79	4.9
Freon 22	1.3	J	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	2.1	U	0.38	2.1
n-Butane	2.3	J	0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	260		0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	1.1	J	0.29	1.6
Acetone	14	J	4.1	24
Isopropyl alcohol	25	U	4.8	25
Carbon disulfide	14		0.27	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS09-092315

Lab Sample ID: 200-29972-17
Client Matrix: Air

Date Sampled: 09/23/2015 1827
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	1.5	J	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	2.8		0.38	1.4
1,1-Dichloroethane	6.5		0.20	1.6
Methyl Ethyl Ketone	2.3	J	0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	280		0.50	2.2
Cyclohexane	4.2		0.27	1.4
Carbon tetrachloride	0.50	U	0.40	0.50
2,2,4-Trimethylpentane	0.83	J	0.36	1.9
Benzene	1.1	J	0.27	1.3
1,2-Dichloroethane	1.6	U	0.33	1.6
n-Heptane	1.5	J	0.33	1.6
Trichloroethene	55		0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	1.6	J	0.41	4.1
Toluene	3.1		0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	2.5	J	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.47	J	0.29	1.7
m,p-Xylene	2.6	J	0.62	4.3
Xylene, o-	0.70	J	0.32	1.7
Xylene (total)	3.3	J	0.32	6.1
Styrene	1.7	U	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	0.48	J	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS09-092315**

Lab Sample ID: 200-29972-17
Client Matrix: Air

Date Sampled: 09/23/2015 1827
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	2.0	U	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.1		0.080	0.50
Freon 22	1.0		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.95		0.093	0.50
n-Butane	9.1		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	~~87~~ 63	~~E~~ 0.15	~~0.038~~	~~0.20~~ 0.80
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	1.1		0.036	0.20
Acetone	21		0.86	5.0
Isopropyl alcohol	12		0.98	5.0
Carbon disulfide	0.47	J	0.043	0 50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.53		0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	1.1		0.054	0.20
1,1-Dichloroethane	0.37		0.025	0.20
Methyl Ethyl Ketone	2.6		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	1.1		0.046	0.20
Cyclohexane	0.27		0.039	0.20
Carbon tetrachloride	0.12		0.032	0.040
2,2,4-Trimethylpentane	0.46		0.039	0.20
Benzene	0.85		0.042	0.20
1,2-Dichloroethane	0.97		0.041	0.20
n-Heptane	0.35		0.040	0.20
Trichloroethene	0.046		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.16	J	0.050	0.50
Toluene	1.8		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.077	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.14	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.23		0.033	0.20
m,p-Xylene	0.82		0.071	0.50
Xylene, o-	0.29		0.037	0.20
Xylene (total)	1.1		0.037	0.70
Styrene	0.18	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.040	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.047	J	0.043	0.20
4-Ethyltoluene	0.083	J	0.044	0.20
1,3,5-Trimethylbenzene	0.11	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.36		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.13	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.073	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.13	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.2		0.40	2.5
Freon 22	3.5		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	2.0		0.19	1.0
n-Butane	22		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	490	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	4.6		0.14	0.79
Acetone	49		2.0	12
Isopropyl alcohol	30		2.4	12
Carbon disulfide	1.5	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.8		0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	3.8		0.19	0.70
1,1-Dichloroethane	1.5		0.10	0.81
Methyl Ethyl Ketone	7.6		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	5.8		0.25	1.1
Cyclohexane	0.92		0.13	0.69
Carbon tetrachloride	0.73		0.20	0.25
2,2,4-Trimethylpentane	2.2		0.18	0.93
Benzene	2.7		0.13	0.64
1,2-Dichloroethane	3.9		0.17	0.81
n-Heptane	1.4		0.16	0.82
Trichloroethene	0.25		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.67	J	0.20	2.0
Toluene	6.6		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.52	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.56	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.99		0.14	0.87
m,p-Xylene	3.6		0.31	2.2
Xylene, o-	1.3		0.16	0.87
Xylene (total)	4.8		0.16	3.0
Styrene	0.77	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.20	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.23	J	0.21	0.98
4-Ethyltoluene	0.41	J	0.22	0.98
1,3,5-Trimethylbenzene	0.55	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.8		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.74	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.44	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.68	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.72	J D	0.32	2.0
Freon 22	0.67	J D	0.23	2.0
1,2-Dichlorotetrafluoroethane	0.80	U	0.15	0.80
Chloromethane	0.65	J D	0.37	2.0
n-Butane	5.4	D	0.31	2.0
Vinyl chloride	0.16	U	0.13	0.16
1,3-Butadiene	0.80	U	0.36	0.80
Bromomethane	0.80	U	0.22	0.80
Chloroethane	2.0	U	0.34	2.0
Bromoethene(Vinyl Bromide)	0.80	U	0.18	0.80
Trichlorofluoromethane	63	D	0.15	0.80
Freon TF	0.80	U	0.30	0.80
1,1-Dichloroethene	0.79	J D	0.14	0.80
Acetone	14	J D	3.4	20
Isopropyl alcohol	7.0	J D	3.9	20
Carbon disulfide	0.33	J D	0.17	2.0
3-Chloropropene	2.0	U	0.27	2.0
Methylene Chloride	2.0	U	0.72	2.0
tert-Butyl alcohol	20	U	3.4	20
Methyl tert-butyl ether	0.80	U	0.36	0.80
trans-1,2-Dichloroethene	0.80	U	0.17	0.80
n-Hexane	0.59	J D	0.22	0.80
1,1-Dichloroethane	0.80	U	0.10	0.80
Methyl Ethyl Ketone	1.4	J D	0.21	2.0
cis-1,2-Dichloroethene	0.80	U	0.14	0.80
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.80	U	0.33	0.80
Tetrahydrofuran	20	U	5.6	20
1,1,1-Trichloroethane	0.76	J D	0.18	0.80
Cyclohexane	0.80	U	0.16	0.80
Carbon tetrachloride	0.16	U	0.13	0.16
2,2,4-Trimethylpentane	0.25	J D	0.16	0.80
Benzene	0.57	J D	0.17	0.80
1,2-Dichloroethane	0.67	J D	0.16	0.80
n-Heptane	0.80	U	0.16	0.80
Trichloroethene	0.16	U	0.16	0.16
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.80	U	0.11	0.80
1,4-Dioxane	20	U	2.2	20
Bromodichloromethane	0.80	U	0.12	0.80
cis-1,3-Dichloropropene	0.80	U	0.092	0.80
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	1.2	D	0.37	0.80
trans-1,3-Dichloropropene	0.80	U	0.14	0.80
1,1,2-Trichloroethane	0.80	U	0.16	0.80
Tetrachloroethene	0.80	U	0.092	0.80

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	0.80	U	0.18	0.80
1,2-Dibromoethane	0.80	U	0.16	0.80
Chlorobenzene	0.80	U	0.20	0.80
Ethylbenzene	0.19	J D	0.13	0.80
m,p-Xylene	0.63	J D	0.28	2.0
Xylene, o-	0.22	J D	0.15	0.80
Xylene (total)	0.85	J D	0.15	2.8
Styrene	0.80	U	0.17	0.80
Bromoform	0.80	U	0.22	0.80
Cumene	0.80	U	0.12	0.80
1,1,2,2-Tetrachloroethane	0.80	U	0.18	0.80
n-Propylbenzene	0.80	U	0.17	0.80
4-Ethyltoluene	0.80	U	0.18	0.80
1,3,5-Trimethylbenzene	0.80	U	0.16	0.80
2-Chlorotoluene	0.80	U	0.13	0.80
tert-Butylbenzene	0.80	U	0.18	0.80
1,2,4-Trimethylbenzene	0.23	J D	0.17	0.80
sec-Butylbenzene	0.80	U	0.18	0.80
4-Isopropyltoluene	0.80	U	0.15	0.80
1,3-Dichlorobenzene	0.80	U	0.22	0.80
1,4-Dichlorobenzene	0.80	U	0.23	0.80
Benzyl chloride	0.80	U	0.21	0.80
n-Butylbenzene	0.80	U	0.19	0.80
1,2-Dichlorobenzene	0.80	U	0.22	0.80
1,2,4-Trichlorobenzene	2.0	U	0.27	2.0
Hexachlorobutadiene	0.80	U	0.33	0.80
Naphthalene	2.0	U	0.23	2.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.6	J D	1.6	9.9
Freon 22	2.4	J D	0.81	7.1
1,2-Dichlorotetrafluoroethane	5.6	U	1.1	5.6
Chloromethane	1.3	J D	0.77	4.1
n-Butane	13	D	0.74	4.8
Vinyl chloride	0.41	U	0.33	0.41
1,3-Butadiene	1.8	U	0.79	1.8
Bromomethane	3.1	U	0.87	3.1
Chloroethane	5.3	U	0.90	5.3
Bromoethene(Vinyl Bromide)	3.5	U	0.77	3.5
Trichlorofluoromethane	360	D	0.85	4.5
Freon TF	6.1	U	2.3	6.1
1,1-Dichloroethene	3.1	J D	0.57	3.2
Acetone	33	J D	8.2	48
Isopropyl alcohol	17	J D	9.6	49
Carbon disulfide	1.0	J D	0.54	6.2

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	6.3	U	0.85	6.3
Methylene Chloride	6.9	U	2.5	6.9
tert-Butyl alcohol	61	U	10	61
Methyl tert-butyl ether	2.9	U	1.3	2.9
trans-1,2-Dichloroethene	3.2	U	0.68	3.2
n-Hexane	2.1	J D	0.76	2.8
1,1-Dichloroethane	3.2	U	0.40	3.2
Methyl Ethyl Ketone	4.2	J D	0.61	5.9
cis-1,2-Dichloroethene	3.2	U	0.56	3.2
1,2-Dichloroethene, Total	6.3	U	0.56	6.3
Chloroform	3.9	U	1.6	3.9
Tetrahydrofuran	59	U	17	59
1,1,1-Trichloroethane	4.1	J D	1.0	4.4
Cyclohexane	2.8	U	0.54	2.8
Carbon tetrachloride	1.0	U	0.81	1.0
2,2,4-Trimethylpentane	1.2	J D	0.73	3.7
Benzene	1.8	J D	0.54	2.6
1,2-Dichloroethane	2.7	J D	0.66	3.2
n-Heptane	3.3	U	0.66	3.3
Trichloroethene	0.86	U	0.84	0.86
Methyl methacrylate	8.2	U	0.66	8.2
1,2-Dichloropropane	3.7	U	0.50	3.7
1,4-Dioxane	72	U	8.1	72
Bromodichloromethane	5.4	U	0.80	5.4
cis-1,3-Dichloropropene	3.6	U	0.42	3.6
methyl isobutyl ketone	8.2	U	0.82	8.2
Toluene	4.6	D	1.4	3.0
trans-1,3-Dichloropropene	3.6	U	0.62	3.6
1,1,2-Trichloroethane	4.4	U	0.85	4.4
Tetrachloroethene	5.4	U	0.62	5.4
Methyl Butyl Ketone (2-Hexanone)	8.2	U	0.93	8.2
Dibromochloromethane	6.8	U	1.5	6.8
1,2-Dibromoethane	6.1	U	1.2	6.1
Chlorobenzene	3.7	U	0.90	3.7
Ethylbenzene	0.82	J D	0.57	3.5
m,p-Xylene	2.7	J D	1.2	8.7
Xylene, o-	0.94	J D	0.64	3.5
Xylene (total)	3.7	J D	0.64	12
Styrene	3.4	U	0.73	3.4
Bromoform	8.3	U	2.3	8.3
Cumene	3.9	U	0.59	3.9
1,1,2,2-Tetrachloroethane	5.5	U	1.2	5.5
n-Propylbenzene	3.9	U	0.85	3.9
4-Ethyltoluene	3.9	U	0.87	3.9
1,3,5-Trimethylbenzene	3.9	U	0.77	3.9
2-Chlorotoluene	4.1	U	0.68	4.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA09-092315**

Lab Sample ID: 200-29972-18
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	4.4	U	0.97	4.4
1,2,4-Trimethylbenzene	1.1	J D	0.85	3.9
sec-Butylbenzene	4.4	U	0.97	4.4
4-Isopropyltoluene	4.4	U	0.81	4.4
1,3-Dichlorobenzene	4.8	U	1.3	4.8
1,4-Dichlorobenzene	4.8	U	1.4	4.8
Benzyl chloride	4.1	U	1.1	4.1
n-Butylbenzene	4.4	U	1.0	4.4
1,2-Dichlorobenzene	4.8	U	1.3	4.8
1,2,4-Trichlorobenzene	15	U	2.0	15
Hexachlorobutadiene	8.5	U	3.5	8.5
Naphthalene	10	U	1.2	10

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SSDUP-092315**

Lab Sample ID: 200-29972-19 | Date Sampled: 09/23/2015 1831
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.86	J	0.24	1.5
Freon 22	0.37	J	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	1.5	U	0.28	1.5
n-Butane	1.2	J	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.26	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	48		0.11	0.60
Freon TF	0.39	J	0.23	0 60
1,1-Dichloroethene	0.19	J	0.11	0.60
Acetone	4.0	J	2.6	15
Isopropyl alcohol	15	U	2.9	15
Carbon disulfide	0.29	J	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	0.83		0.16	0.60
1,1-Dichloroethane	1.6		0.075	0.60
Methyl Ethyl Ketone	1.5	U	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.11	0.60
1,2-Dichloroethene, Total	1.2	U	0.11	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	53		0.14	0.60
Cyclohexane	1.3		0.12	0.60
Carbon tetrachloride	0.12	U	0.096	0.12
2,2,4-Trimethylpentane	0.60	U	0.12	0.60
Benzene	0.33	J	0.13	0.60
1,2-Dichloroethane	0.60	U	0.12	0.60
n-Heptane	0.43	J	0.12	0.60
Trichloroethene	11		0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	0.18	J	0.15	1.5
Toluene	0.78		0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.39	J	0.069	0.60

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SSDUP-092315

Lab Sample ID: 200-29972-19
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	0.10	J	0.099	0.60
m,p-Xylene	0.58	J	0.21	1.5
Xylene, o-	0.15	J	0.11	0.60
Xylene (total)	0.73	J	0.11	2.1
Styrene	0.60	U	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.098	J	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.60	U	0.13	0.60
4-Ethyltoluene	0.60	U	0.13	0.60
1,3,5-Trimethylbenzene	0.60	U	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.60	U	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.17	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.17	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	1.5	U	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.2	J	1.2	7.4
Freon 22	1.3	J	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.80	4.2
Chloromethane	3.1	U	0.58	3.1
n-Butane	2.9	J	0.56	3.6
Vinyl chloride	0.31	U	0.25	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	4.0	U	0.67	4.0
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	270		0.64	3.4
Freon TF	3.0	J	1.7	4.6
1,1-Dichloroethene	0.75	J	0.43	2.4
Acetone	9.4	J	6.1	36
Isopropyl alcohol	37	U	7.2	37
Carbon disulfide	0.89	J	0.40	4.7

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SSDUP-092315**

Lab Sample ID: 200-29972-19 | Date Sampled: 09/23/2015 1831
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	2.9		0.57	2.1
1,1-Dichloroethane	6.5		0.30	2.4
Methyl Ethyl Ketone	4.4	U	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.42	2.4
1,2-Dichloroethene, Total	4.8	U	0.42	4.8
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	290		0.75	3.3
Cyclohexane	4.4		0.40	2.1
Carbon tetrachloride	0.75	U	0.60	0.75
2,2,4-Trimethylpentane	2.8	U	0.55	2.8
Benzene	1.0	J	0.40	1.9
1,2-Dichloroethane	2.4	U	0.50	2.4
n-Heptane	1.8	J	0.49	2.5
Trichloroethene	57		0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.1	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	0.76	J	0.61	6.1
Toluene	3.0		1.1	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	2.7	J	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.68	2.8
Ethylbenzene	0.44	J	0.43	2.6
m,p-Xylene	2.5	J	0.92	6.5
Xylene, o-	0.66	J	0.48	2.6
Xylene (total)	3.2	J	0.48	9.1
Styrene	2.6	U	0.55	2.6
Bromoform	6.2	U	1.7	6.2
Cumene	0.48	J	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.91	4.1
n-Propylbenzene	2.9	U	0.63	2.9
4-Ethyltoluene	2.9	U	0.65	2.9
1,3,5-Trimethylbenzene	2.9	U	0.58	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SSDUP-092315**

Lab Sample ID: 200-29972-19
Client Matrix: Air

Date Sampled: 09/23/2015 1831
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	2.9	U	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	7.9	U	0.90	7.9

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.2		0.16	1.0
Freon 22	0.34	J	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	0.19	J	0.19	1.0
n-Butane	1.2		0.16	1.0
Vinyl chloride	0.080	U	0 064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	50		0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.40	U	0.072	0.40
Acetone	8.9	J	1.7	10
Isopropyl alcohol	10	U	2.0	10
Carbon disulfide	0.62	J	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	0.45	J	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.66		0.11	0.40
1,1-Dichloroethane	0.40	U	0.050	0.40
Methyl Ethyl Ketone	1.1		0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	6.3		0.092	0.40
Cyclohexane	0.22	J	0.078	0.40
Carbon tetrachloride	0.080	U	0.064	0.080
2,2,4-Trimethylpentane	0.40	U	0.078	0.40
Benzene	0.38	J	0.084	0.40
1,2-Dichloroethane	0.40	U	0.082	0.40
n-Heptane	0.31	J	0.080	0.40
Trichloroethene	0.75		0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	0.33	J	0.10	1.0
Toluene	0.95		0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0 40	U	0.078	0.40
Tetrachloroethene	0.23	J	0.046	0.40

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.084	J	0.066	0.40
m,p-Xylene	0.34	J	0.14	1.0
Xylene, o-	0.13	J	0.074	0.40
Xylene (total)	0.47	J	0.074	1.4
Styrene	0.40	U	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.40	U	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.40	U	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	6.1		0.79	4.9
Freon 22	1.2	J	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	0.40	J	0.38	2.1
n-Butane	2.8		0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	280		0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	1.6	U	0.29	1.6
Acetone	21	J	4.1	24
Isopropyl alcohol	25	U	4.8	25
Carbon disulfide	1.9	J	0.27	3.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date.	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	1.6	J	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	2.3		0.38	1.4
1,1-Dichloroethane	1.6	U	0.20	1.6
Methyl Ethyl Ketone	3.3		0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	34		0.50	2.2
Cyclohexane	0.77	J	0.27	1.4
Carbon tetrachloride	0.50	U	0.40	0.50
2,2,4-Trimethylpentane	1.9	U	0.36	1.9
Benzene	1.2	J	0.27	1.3
1,2-Dichloroethane	1.6	U	0.33	1.6
n-Heptane	1.3	J	0.33	1.6
Trichloroethene	4.1		0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	1.3	J	0.41	4.1
Toluene	3.6		0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	1.6	J	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.37	J	0.29	1.7
m,p-Xylene	1.5	J	0.62	4.3
Xylene, o-	0.55	J	0.32	1.7
Xylene (total)	2.0	J	0.32	6.1
Styrene	1.7	U	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	2.0	U	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS10-092315**

Lab Sample ID: 200-29972-20
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	2.0	U	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21 | Date Sampled: 09/23/2015 1834
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.73		0.080	0.50
Freon 22	0.95		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.70		0.093	0.50
n-Butane	7.5		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.12	J	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	~~60~~ 0.095	~~E~~	~~0.038~~	~~0.20~~ 0.05
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.83		0.036	0.20
Acetone	9.1		0.86	5.0
Isopropyl alcohol	6.4		0.98	5.0
Carbon disulfide	0.13	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.32	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.74		0.054	0.20
1,1-Dichloroethane	0.25		0.025	0.20
Methyl Ethyl Ketone	0.81		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.61		0.046	0.20
Cyclohexane	0.21		0.039	0.20
Carbon tetrachloride	0.092		0.032	0.040
2,2,4-Trimethylpentane	0.32		0.039	0.20
Benzene	0.74		0.042	0.20
1,2-Dichloroethane	1.1		0.041	0.20
n-Heptane	0.31		0.040	0.20
Trichloroethene	0.041		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	1.6		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.075	J	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20		0.033	0.20
m,p-Xylene	0.67		0.071	0.50
Xylene, o-	0.22		0.037	0.20
Xylene (total)	0.89		0.037	0.70
Styrene	0.22		0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.030	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.044	J	0.044	0.20
1,3,5-Trimethylbenzene	0.053	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.22		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.10	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.072	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.11	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.6		0.40	2.5
Freon 22	3.4		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.4		0.19	1.0
n-Butane	18		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	0.33	J	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	340	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	3.3		0.14	0.79
Acetone	22		2.0	12
Isopropyl alcohol	16		2.4	12
Carbon disulfide	0.41	J	0.13	1.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.1	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	2.6		0.19	0.70
1,1-Dichloroethane	0.99		0.10	0.81
Methyl Ethyl Ketone	2.4		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	3.3		0.25	1.1
Cyclohexane	0.71		0.13	0.69
Carbon tetrachloride	0.58		0.20	0.25
2,2,4-Trimethylpentane	1.5		0.18	0.93
Benzene	2.4		0.13	0.64
1,2-Dichloroethane	4.6		0.17	0.81
n-Heptane	1.3		0.16	0.82
Trichloroethene	0.22		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	6.1		0.35	0.75
trans-1.3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.51	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.85		0.14	0.87
m,p-Xylene	2.9		0.31	2.2
Xylene, o-	0.95		0.16	0.87
Xylene (total)	3.9		0.16	3.0
Styrene	0.94		0.18	0.85
Bromoform	2.1	U	0 58	2.1
Cumene	0.15	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.21	J	0.22	0.98
1,3,5-Trimethylbenzene	0.26	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.1		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.55	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.43	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.58	J	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.70	J D	0.20	1.3
Freon 22	0.89	J D	0.14	1.3
1,2-Dichlorotetrafluoroethane	0.50	U	0.095	0.50
Chloromethane	0.61	J D	0.23	1.3
n-Butane	6.1	D	0.20	1.3
Vinyl chloride	0.10	U	0.080	0.10
1,3-Butadiene	0.50	U	0.22	0.50
Bromomethane	0.50	U	0.14	0.50
Chloroethane	1.3	U	0.21	1.3
Bromoethene(Vinyl Bromide)	0.50	U	0.11	0.50
Trichlorofluoromethane	57	D	0.095	0.50
Freon TF	0.50	U	0.19	0.50
1,1-Dichloroethene	0.77	D	0.090	0.50
Acetone	8.3	J D	2.2	13
Isopropyl alcohol	5.0	J D	2.5	13
Carbon disulfide	0.12	J D	0.11	1.3
3-Chloropropene	1.3	U	0.17	1.3
Methylene Chloride	1.3	U	0.45	1.3
tert-Butyl alcohol	13	U	2.1	13
Methyl tert-butyl ether	0.50	U	0.22	0.50
trans-1,2-Dichloroethene	0.50	U	0.11	0.50
n-Hexane	0.58	D	0.14	0.50
1,1-Dichloroethane	0.23	J D	0.063	0.50
Methyl Ethyl Ketone	0.66	J D	0.13	1.3
cis-1,2-Dichloroethene	0.50	U	0.088	0.50
1,2-Dichloroethene, Total	1.0	U	0.088	1.0
Chloroform	0.50	U	0.21	0.50
Tetrahydrofuran	13	U	3.5	13
1,1,1-Trichloroethane	0.61	D	0.12	0.50
Cyclohexane	0.15	J D	0.098	0.50
Carbon tetrachloride	0.080	J D	0.080	0.10
2,2,4-Trimethylpentane	0.24	J D	0.098	0.50
Benzene	0.65	D	0.11	0.50
1,2-Dichloroethane	1.0	D	0.10	0.50
n-Heptane	0.23	J D	0.10	0.50
Trichloroethene	0.10	U	0.098	0.10
Methyl methacrylate	1.3	U	0.10	1.3
1,2-Dichloropropane	0.50	U	0.068	0.50
1,4-Dioxane	13	U	1.4	13
Bromodichloromethane	0.50	U	0.075	0.50
cis-1,3-Dichloropropene	0.50	U	0.058	0.50
methyl isobutyl ketone	1.3	U	0.13	1.3
Toluene	1.2	D	0.23	0.50
trans-1,3-Dichloropropene	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.098	0.50
Tetrachloroethene	0.060	J D	0.058	0.50

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21 | Date Sampled: 09/23/2015 1834
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.3	U	0.14	1.3
Dibromochloromethane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.098	0.50
Chlorobenzene	0.50	U	0.12	0.50
Ethylbenzene	0.17	J D	0.083	0.50
m,p-Xylene	0.54	J D	0.18	1.3
Xylene, o-	0.18	J D	0.093	0.50
Xylene (total)	0.72	J D	0.093	1.8
Styrene	0.15	J D	0.11	0.50
Bromoform	0.50	U	0.14	0.50
Cumene	0.50	U	0.075	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.11	0.50
n-Propylbenzene	0.50	U	0.11	0.50
4-Ethyltoluene	0.50	U	0.11	0.50
1,3,5-Trimethylbenzene	0.50	U	0.098	0.50
2-Chlorotoluene	0.50	U	0.083	0.50
tert-Butylbenzene	0.50	U	0.11	0.50
1,2,4-Trimethylbenzene	0.15	J D	0.11	0.50
sec-Butylbenzene	0.50	U	0.11	0.50
4-Isopropyltoluene	0.50	U	0.093	0.50
1,3-Dichlorobenzene	0.50	U	0.14	0.50
1,4-Dichlorobenzene	0.50	U	0.14	0.50
Benzyl chloride	0.50	U	0.13	0.50
n-Butylbenzene	0.50	U	0.12	0.50
1,2-Dichlorobenzene	0.50	U	0.14	0.50
1,2,4-Trichlorobenzene	1.3	U	0.17	1.3
Hexachlorobutadiene	0.50	U	0.21	0.50
Naphthalene	1.3	U	0.14	1.3

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.5	J D	0.99	6.2
Freon 22	3.1	J D	0.50	4.4
1,2-Dichlorotetrafluoroethane	3.5	U	0.66	3.5
Chloromethane	1.3	J D	0.48	2.6
n-Butane	15	D	0.46	3.0
Vinyl chloride	0.26	U	0.20	0.26
1,3-Butadiene	1.1	U	0.49	1.1
Bromomethane	1.9	U	0.54	1.9
Chloroethane	3.3	U	0.56	3.3
Bromoethene(Vinyl Bromide)	2.2	U	0.48	2.2
Trichlorofluoromethane	320	D	0.53	2.8
Freon TF	3.8	U	1.4	3.8
1,1-Dichloroethene	3.1	D	0.36	2.0
Acetone	20	J D	5.1	30
Isopropyl alcohol	12	J D	6.0	31
Carbon disulfide	0.39	J D	0.33	3.9

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.9	U	0.53	3.9
Methylene Chloride	4.3	U	1.6	4.3
tert-Butyl alcohol	38	U	6.4	38
Methyl tert-butyl ether	1.8	U	0.80	1.8
trans-1,2-Dichloroethene	2.0	U	0.43	2.0
n-Hexane	2.0	D	0.48	1.8
1,1-Dichloroethane	0.93	J D	0.25	2.0
Methyl Ethyl Ketone	1.9	J D	0.38	3.7
cis-1,2-Dichloroethene	2.0	U	0.35	2.0
1,2-Dichloroethene, Total	4.0	U	0.35	4.0
Chloroform	2.4	U	1.0	2.4
Tetrahydrofuran	37	U	10	37
1,1,1-Trichloroethane	3.3	D	0.63	2.7
Cyclohexane	0.51	J D	0.34	1.7
Carbon tetrachloride	0.50	J D	0.50	0.63
2,2,4-Trimethylpentane	1.1	J D	0.46	2.3
Benzene	2.1	D	0.34	1.6
1,2-Dichloroethane	4.1	D	0.41	2.0
n-Heptane	0.95	J D	0.41	2.0
Trichloroethene	0.54	U	0.52	0.54
Methyl methacrylate	5.1	U	0.41	5.1
1,2-Dichloropropane	2.3	U	0.31	2.3
1,4-Dioxane	45	U	5.0	45
Bromodichloromethane	3.4	U	0.50	3.4
cis-1,3-Dichloropropene	2.3	U	0.26	2.3
methyl isobutyl ketone	5.1	U	0.51	5.1
Toluene	4.7	D	0.88	1.9
trans-1,3-Dichloropropene	2.3	U	0.39	2.3
1,1,2-Trichloroethane	2.7	U	0.53	2.7
Tetrachloroethene	0.41	J D	0.39	3.4
Methyl Butyl Ketone (2-Hexanone)	5.1	U	0.58	5.1
Dibromochloromethane	4.3	U	0.94	4.3
1,2-Dibromoethane	3.8	U	0.75	3.8
Chlorobenzene	2.3	U	0.56	2.3
Ethylbenzene	0.75	J D	0.36	2.2
m,p-Xylene	2.3	J D	0.77	5.4
Xylene, o-	0.78	J D	0.40	2.2
Xylene (total)	3.1	J D	0.40	7.6
Styrene	0.64	J D	0.46	2.1
Bromoform	5.2	U	1.4	5.2
Cumene	2.5	U	0.37	2.5
1,1,2,2-Tetrachloroethane	3.4	U	0.76	3.4
n-Propylbenzene	2.5	U	0.53	2.5
4-Ethyltoluene	2.5	U	0.54	2.5
1,3,5-Trimethylbenzene	2.5	U	0.48	2.5
2-Chlorotoluene	2.6	U	0.43	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-IA10-092315**

Lab Sample ID: 200-29972-21
Client Matrix: Air

Date Sampled: 09/23/2015 1834
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.7	U	0.60	2.7
1,2,4-Trimethylbenzene	0.76	J D	0.53	2.5
sec-Butylbenzene	2.7	U	0.60	2.7
4-Isopropyltoluene	2.7	U	0.51	2.7
1,3-Dichlorobenzene	3.0	U	0.83	3.0
1,4-Dichlorobenzene	3.0	U	0.86	3.0
Benzyl chloride	2.6	U	0.69	2.6
n-Butylbenzene	2.7	U	0.65	2.7
1,2-Dichlorobenzene	3.0	U	0.83	3.0
1,2,4-Trichlorobenzene	9.3	U	1.3	9.3
Hexachlorobutadiene	5.3	U	2.2	5.3
Naphthalene	6.6	U	0.75	6.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-AA-092315**

Lab Sample ID: 200-29972-22
Client Matrix: Air

Date Sampled: 09/23/2015 1739
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.58		0.080	0.50
Freon 22	0.31	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.58		0.093	0.50
n-Butane	0.39	J	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.26		0.038	0.20
Freon TF	0.086	J	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	3.8	J	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.089	J	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.36	J	0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.079		0.032	0.040
2,2,4-Trimethylpentane	0.20	U	0.039	0.20
Benzene	0.087	J	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.13	J	0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.20	U	0.023	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-AA-092315**

Lab Sample ID: 200-29972-22
Client Matrix: Air

Date Sampled: 09/23/2015 1739
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date.	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20	U	0.033	0.20
m,p-Xylene	0.50	U	0.071	0.50
Xylene, o-	0.20	U	0.037	0.20
Xylene (total)	0.70	U	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9		0 40	2.5
Freon 22	1.1	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	0.92	J	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.5		0.21	1.1
Freon TF	0.66	J	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	8.9	J	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-AA-092315**

Lab Sample ID: 200-29972-22 | Date Sampled: 09/23/2015 1739
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.31	J	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	1.1	J	0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0 79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	0.69	U	0.13	0 69
Carbon tetrachloride	0.50		0.20	0.25
2,2,4-Trimethylpentane	0.93	U	0.18	0.93
Benzene	0.28	J	0 13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	0.48	J	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.87	U	0.14	0.87
m,p-Xylene	2.2	U	0.31	2.2
Xylene, o-	0.87	U	0.16	0.87
Xylene (total)	3.0	U	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0 98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-AA-092315**

Lab Sample ID: 200-29972-22 | Date Sampled: 09/23/2015 1739
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Laboratory Reports

ANALYTICAL REPORT

Job Number: 200-29972-1

Job Description: LMCO Farrell Rd.

For:
O'Brien & Gere Inc of North America
PO BOX 4873
Syracuse, NY 13221

Attention: Mr. Eric Alongi

Approved for release.
Don C Dawicki
Manager of Project Management
10/30/2015 2:19 PM

Don C Dawicki, Manager of Project Management
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10/30/2015
Revision: 1

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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CASE NARRATIVE

Client: O'Brien & Gere Inc of North America

Project: LMCO Farrell Rd.

Report Number: 200-29972-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 09/25/2015; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples FR-SS01-092315, FR-IA01-092315, FR-SS02-092315, FR-IA02-092315, FR-SS03-092315, FR-IA03-092315, FR-SS04-092315, FR-IA04-092315, FR-SS05-092315, FR-IA05-092315, FR-SS06-092315, FR-IA06-092315, FR-SS07-092315, FR-IA07-092315, FR-SS08-092315, FR-IA08-092315, FR-SS09-092315, FR-IA09-092315, FR-SSDUP-092315, FR-SS10-092315, FR-IA10-092315 and FR-AA-092315 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 09/29/2015, 09/30/2015, 10/05/2015 and 10/06/2015.

Samples FR-IA01-092315[2.99X], FR-SS02-092315[4X], FR-IA02-092315[5X], FR-SS04-092315[10X], FR-SS05-092315[176X], FR-SS05-092315[927X], FR-IA05-092315[2.99X], FR-IA06-092315[2X], FR-SS07-092315[5X], FR-IA07-092315[2X], FR-SS08-092315[180X], FR-SS08-092315[39.5X], FR-IA08-092315[2.99X], FR-SS09-092315[2X], FR-IA09-092315[4X], FR-SSDUP-092315[3X], FR-SS10-092315[2X] and FR-IA10-092315[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The original analyses for the majority of the samples in this delivery group yielded concentrations of target analytes that exceeded the range of calibrated instrument response. These samples were diluted and re-analyzed yielding acceptable results. The results from both analyses for each sample have been formally presented. Samples FR-SS02-092315, FR-SS04-092315, FR-SS07-092315, FR-SS09-092315, FR-SSDUP-092315, and FR-SS10-092315 were analyzed at dilution only.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

REVISION SUMMARY
The enclosed submittal has been revised to provide for the removal of the detected value for Cyclohexane for sample FR-SS09-092315 based on additional review of the spectra.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94650

Lab Sample ID: IC 200-94650/3 Client Sample ID:

Date Analyzed: 09/28/15 15:53 Lab File ID: 15979_003.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	11.42	Baseline	daiglep	09/29/15 09:07
Trichloroethene	15.48	Baseline	daiglep	09/29/15 09:07
Tetrachloroethene	18.99	Baseline	daiglep	09/29/15 09:07

Lab Sample ID: IC 200-94650/4 Client Sample ID:

Date Analyzed: 09/28/15 16:42 Lab File ID: 15979_004.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	5.01	Baseline	daiglep	09/29/15 09:11
n-Butane	5.29	Baseline	daiglep	09/29/15 09:11
n-Pentane	7.45	Baseline	daiglep	09/29/15 09:11
Ethanol	7.96	Baseline	daiglep	09/29/15 09:11
Acetone	8.95	Baseline	daiglep	09/29/15 09:11
3-Chloropropene	9.59	Baseline	daiglep	09/29/15 09:11
tert-Butyl alcohol	10.13	Baseline	daiglep	09/29/15 09:11
trans-1,2-Dichloroethene	10.43	Baseline	daiglep	09/29/15 09:11
Vinyl acetate	11.47	Baseline	daiglep	09/29/15 09:11
cis-1,2-Dichloroethene	12.62	Baseline	daiglep	09/29/15 09:11
Cyclohexane	13.52	Baseline	daiglep	09/29/15 09:11
2,2,4-Trimethylpentane	14.18	Baseline	daiglep	09/29/15 09:11
Benzene	14.25	Baseline	daiglep	09/29/15 09:11
1,2-Dichloroethane	14.42	Baseline	daiglep	09/29/15 09:11
n-Heptane	14.53	Baseline	daiglep	09/29/15 09:11
1,2-Dichloropropane	16.02	Baseline	daiglep	09/29/15 09:11
cis-1,3-Dichloropropene	17.38	Baseline	daiglep	09/29/15 09:11
n-Octane	17.93	Baseline	daiglep	09/29/15 09:11
trans-1,3-Dichloropropene	18.49	Baseline	daiglep	09/29/15 09:11
1,1,2-Trichloroethane	18.86	Baseline	daiglep	09/29/15 09:11
Tetrachloroethene	18.99	Baseline	daiglep	09/29/15 09:11

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94650

Lab Sample ID: IC 200-94650/4 Client Sample ID:

Date Analyzed: 09/28/15 16:42 Lab File ID: 15979_004.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Propylbenzene	22.97	Baseline	daiglep	09/29/15 09:11
Naphthalene	28.77	Baseline	daiglep	09/29/15 09:11

Lab Sample ID: IC 200-94650/5 Client Sample ID:

Date Analyzed: 09/28/15 17:30 Lab File ID: 15979_005.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	5.00	Baseline	daiglep	09/29/15 09:13
3-Chloropropene	9.59	Baseline	daiglep	09/29/15 09:13
trans-1,2-Dichloroethene	10.43	Baseline	daiglep	09/29/15 09:13
Acrylonitrile	10.62	Baseline	daiglep	09/29/15 09:13
cis-1,3-Dichloropropene	17.37	Baseline	daiglep	09/29/15 09:13

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94728

Lab Sample ID: MB 200-94728/4 Client Sample ID:

Date Analyzed: 09/29/15 12:59 Lab File ID: 15991_004.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene	24.51	Baseline	daiglep	09/30/15 12:14

Lab Sample ID: 200-29972-2 Client Sample ID: FR-IA01-092315

Date Analyzed: 09/29/15 14:37 Lab File ID: 15991_006.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Propylbenzene	22.97	Missed Peak	daiglep	09/30/15 12:19

Lab Sample ID: 200-29972-4 Client Sample ID: FR-IA02-092315

Date Analyzed: 09/29/15 16:16 Lab File ID: 15991_008.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	7.30	Baseline	daiglep	09/30/15 12:40
Tetrachloroethene	19.00	Baseline	daiglep	09/30/15 12:40
sec-Butylbenzene	24.07	Missed Peak	daiglep	09/30/15 12:40

Lab Sample ID: 200-29972-6 Client Sample ID: FR-IA03-092315

Date Analyzed: 09/29/15 17:55 Lab File ID: 15991_010.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	13.21	Baseline	daiglep	09/30/15 12:48
1,1,1-Trichloroethane	13.54	Baseline	daiglep	09/30/15 12:48
Benzene	14.25	Baseline	daiglep	09/30/15 12:48
Trichloroethene	15.47	Baseline	daiglep	09/30/15 12:48
Styrene	21.84	Baseline	daiglep	09/30/15 12:48
1,3,5-Trimethylbenzene	23.23	Baseline	daiglep	09/30/15 12:48
Naphthalene	28.78	Baseline	daiglep	09/30/15 12:48

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94728

Lab Sample ID: 200-29972-8 Client Sample ID: FR-IA04-092315

Date Analyzed: 09/29/15 19:33 Lab File ID: 15991_012.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	13.53	Baseline	daiglep	09/30/15 12:54
1,1,1-Trichloroethane	13.54	Baseline	daiglep	09/30/15 12:54
Naphthalene	28.77	Baseline	daiglep	09/30/15 12:54

Lab Sample ID: 200-29972-9 DL Client Sample ID: FR-SS05-092315 DL

Date Analyzed: 09/29/15 21:11 Lab File ID: 15991_014.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	13.53	Baseline	daiglep	09/30/15 12:57

Lab Sample ID: 200-29972-10 Client Sample ID: FR-IA05-092315

Date Analyzed: 09/29/15 22:02 Lab File ID: 15991_015.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	13.22	Baseline	daiglep	09/30/15 13:00
Cyclohexane	13.51	Baseline	daiglep	09/30/15 13:00
n-Heptane	14.54	Baseline	daiglep	09/30/15 13:00
Trichloroethene	15.47	Baseline	daiglep	09/30/15 13:00

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94728

Lab Sample ID: 200-29972-12 Client Sample ID: FR-IA06-092315

Date Analyzed: 09/29/15 23:40 Lab File ID: 15991_017.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	9.17	Baseline	daiglep	09/30/15 13:07
Methylene Chloride	9.93	Baseline	daiglep	09/30/15 13:07
Chloroform	13.22	Baseline	daiglep	09/30/15 13:07
Cyclohexane	13.51	Baseline	daiglep	09/30/15 13:07
n-Heptane	14.53	Baseline	daiglep	09/30/15 13:07
Tetrachloroethene	18.99	Baseline	daiglep	09/30/15 13:07
4-Ethyltoluene	23.14	Wrong peak	daiglep	09/30/15 13:07

Lab Sample ID: 200-29972-18 Client Sample ID: FR-IA09-092315

Date Analyzed: 09/30/15 03:02 Lab File ID: 15991_021.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	13.53	Baseline	daiglep	09/30/15 14:05
n-Heptane	14.54	Baseline	daiglep	09/30/15 14:05
Trichloroethene	15.47	Baseline	daiglep	09/30/15 14:05
Naphthalene	28.78	Baseline	daiglep	09/30/15 14:05

Lab Sample ID: 200-29972-21 Client Sample ID: FR-IA10-092315

Date Analyzed: 09/30/15 03:52 Lab File ID: 15991_022.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	13.52	Baseline	daiglep	09/30/15 14:08
Trichloroethene	15.48	Baseline	daiglep	09/30/15 14:08

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94728

Lab Sample ID: 200-29972-22 Client Sample ID: FR-AA-092315

Date Analyzed: 09/30/15 04:42 Lab File ID: 15991_023.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	9.93	Baseline	daiglep	09/30/15 14:12
Toluene	17.96	Baseline	daiglep	09/30/15 14:12

Lab Sample ID: 200-29972-2 DL Client Sample ID: FR-IA01-092315 DL

Date Analyzed: 09/30/15 05:30 Lab File ID: 15991_024.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 22	4.50	Baseline	daiglep	09/30/15 12:22
n-Propylbenzene	22.97	Missed Peak	daiglep	09/30/15 12:22

Lab Sample ID: 200-29972-10 DL Client Sample ID: FR-IA05-092315 DL

Date Analyzed: 09/30/15 08:03 Lab File ID: 15991_026.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	28.76	Baseline	daiglep	09/30/15 13:02

Lab Sample ID: 200-29972-12 DL Client Sample ID: FR-IA06-092315 DL

Date Analyzed: 09/30/15 08:51 Lab File ID: 15991_027.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptane	14.53	Baseline	daiglep	09/30/15 13:09
1,4-Dichlorobenzene	24.49	Baseline	daiglep	09/30/15 13:09

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94728

Lab Sample ID: 200-29972-14 DL Client Sample ID: FR-IA07-092315 DL

Date Analyzed: 09/30/15 09:39 Lab File ID: 15991_028.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	9.16	Baseline	daiglep	09/30/15 13:13
2,2,4-Trimethylpentane	14.18	Baseline	daiglep	09/30/15 13:13
Naphthalene	28.63	Baseline	daiglep	09/30/15 13:13

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94809

Lab Sample ID: MB 200-94809/5 Client Sample ID:

Date Analyzed: 09/30/15 14:27 Lab File ID: 16024_005.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dichlorobenzene	24.35	Baseline	daiglep	10/01/15 11:58

Lab Sample ID: 200-29972-4 DL Client Sample ID: FR-IA02-092315 DL

Date Analyzed: 09/30/15 15:15 Lab File ID: 16024_006.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	5.00	Baseline	daiglep	10/01/15 12:01
Trichlorofluoromethane	7.29	Baseline	daiglep	10/01/15 12:01
Carbon disulfide	9.17	Baseline	daiglep	10/01/15 12:01
Tetrachloroethene	19.00	Baseline	daiglep	10/01/15 12:01

Lab Sample ID: 200-29972-14 Client Sample ID: FR-IA07-092315

Date Analyzed: 09/30/15 16:53 Lab File ID: 16024_008.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	9.92	Baseline	daiglep	10/01/15 12:09
Chloroform	13.21	Baseline	daiglep	10/01/15 12:09
n-Heptane	14.53	Baseline	daiglep	10/01/15 12:09
Trichloroethene	15.47	Baseline	daiglep	10/01/15 12:09

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94809

Lab Sample ID: 200-29972-16 Client Sample ID: FR-IA08-092315

Date Analyzed: 09/30/15 17:43 Lab File ID: 16024_009.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	13.51	Baseline	daiglep	10/01/15 12:16
Trichloroethene	15.48	Baseline	daiglep	10/01/15 12:16
Tetrachloroethene	18.99	Baseline	daiglep	10/01/15 12:16
1,3-Dichlorobenzene	24.33	Baseline	daiglep	10/01/15 12:16

Lab Sample ID: 200-29972-16 DL Client Sample ID: FR-IA08-092315 DL

Date Analyzed: 09/30/15 18:31 Lab File ID: 16024_010.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	9.17	Baseline	daiglep	10/01/15 12:19
Methylene Chloride	9.93	Baseline	daiglep	10/01/15 12:19
Naphthalene	28.77	Baseline	daiglep	10/01/15 12:19

Lab Sample ID: 200-29972-18 DL Client Sample ID: FR-IA09-092315 DL

Date Analyzed: 09/30/15 19:19 Lab File ID: 16024_011.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	9.93	Baseline	daiglep	10/01/15 12:24
Xylene, o-	21.80	Baseline	daiglep	10/01/15 12:24
1,3,5-Trimethylbenzene	23.24	Baseline	daiglep	10/01/15 12:24
Naphthalene	28.76	Baseline	daiglep	10/01/15 12:24

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Analysis Batch Number: 94809

Lab Sample ID: 200-29972-21 DL Client Sample ID: FR-IA10-092315 DL

Date Analyzed: 09/30/15 20:07 Lab File ID: 16024_012.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	9.91	Baseline	daiglep	10/01/15 12:26
Cyclohexane	13.50	Baseline	daiglep	10/01/15 12:26
n-Heptane	14.53	Baseline	daiglep	10/01/15 12:26

Lab Sample ID: 200-29972-15 Client Sample ID: FR-SS08-092315

Date Analyzed: 09/30/15 20:57 Lab File ID: 16024_013.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	16.20	Baseline	daiglep	10/01/15 12:28
Tetrachloroethene	18.99	Baseline	daiglep	10/01/15 12:28

Lab Sample ID: 200-29972-15 DL Client Sample ID: FR-SS08-092315 DL

Date Analyzed: 09/30/15 21:45 Lab File ID: 16024_014.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butane	5.28	Baseline	daiglep	10/01/15 12:29
Tetrachloroethene	18.98	Baseline	daiglep	10/01/15 12:29

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Analysis Batch Number: 92823

Lab Sample ID: IC 200-92823/4 Client Sample ID:

Date Analyzed: 08/17/15 18:04 Lab File ID: 15313_04.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	3.81	Baseline	daiglep	08/18/15 09:13
1,1-Dichloroethane	8.71	Baseline	daiglep	08/18/15 09:13
Trichloroethene	12.74	Baseline	daiglep	08/18/15 09:13
Tetrachloroethene	16.58	Baseline	daiglep	08/18/15 09:13

Lab Sample ID: IC 200-92823/5 Client Sample ID:

Date Analyzed: 08/17/15 18:54 Lab File ID: 15313_05.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	7.12	Baseline	daiglep	08/18/15 09:17
Acetonitrile	7.28	Baseline	daiglep	08/18/15 09:17
tert-Butyl alcohol	7.70	Baseline	daiglep	08/18/15 09:17
Acrylonitrile	8.01	Baseline	daiglep	08/18/15 09:17
cis-1,2-Dichloroethene	9.81	Baseline	daiglep	08/18/15 09:17
Cyclohexane	10.65	Baseline	daiglep	08/18/15 09:17
1,1,1-Trichloroethane	10.69	Baseline	daiglep	08/18/15 09:17
1,2-Dichloroethane	11.60	Baseline	daiglep	08/18/15 09:17
n-Heptane	11.74	Baseline	daiglep	08/18/15 09:17
n-Butanol	12.72	Baseline	daiglep	08/18/15 09:17
1,2-Dichloropropane	13.33	Baseline	daiglep	08/18/15 09:17
Bromodichloromethane	13.90	Baseline	daiglep	08/18/15 09:17
Toluene	15.48	Baseline	daiglep	08/18/15 09:17
n-Octane	15.51	Baseline	daiglep	08/18/15 09:17
trans-1,3-Dichloropropene	16.10	Baseline	daiglep	08/18/15 09:17

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Analysis Batch Number: 92823

Lab Sample ID: IC 200-92823/6 Client Sample ID:

Date Analyzed: 08/17/15 19:44 Lab File ID: 15313_06.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	10.65	Baseline	daiglep	08/18/15 09:20
1,2-Dichloropropane	13.33	Baseline	daiglep	08/18/15 09:20

Lab Sample ID: IC 200-92823/7 Client Sample ID:

Date Analyzed: 08/17/15 20:33 Lab File ID: 15313_07.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	25.69	Baseline	daiglep	08/18/15 09:29
Hexachlorobutadiene	25.87	Baseline	daiglep	08/18/15 09:29
Naphthalene	26.22	Baseline	daiglep	08/18/15 09:29

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Analysis Batch Number: 95027

Lab Sample ID: 200-29972-1 Client Sample ID: FR-SS01-092315

Date Analyzed: 10/05/15 22:38 Lab File ID: 16087_18.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	10.65	Baseline	desjardin sb	10/06/15 10:19

Lab Sample ID: 200-29972-3 Client Sample ID: FR-SS02-092315

Date Analyzed: 10/05/15 23:27 Lab File ID: 16087_19.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	10.64	Baseline	desjardin sb	10/06/15 10:21
1,1,1-Trichloroethane	10.68	Baseline	desjardin sb	10/06/15 10:21

Lab Sample ID: 200-29972-5 Client Sample ID: FR-SS03-092315

Date Analyzed: 10/06/15 00:16 Lab File ID: 16087_20.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptane	11.76	Baseline	desjardin sb	10/06/15 10:24
Tetrachloroethene	16.58	Baseline	desjardin sb	10/06/15 10:24
Ethylbenzene	18.66	Baseline	desjardin sb	10/06/15 10:24

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Analysis Batch Number: 95027

Lab Sample ID: 200-29972-11 Client Sample ID: FR-SS06-092315

Date Analyzed: 10/06/15 01:05 Lab File ID: 16087_21.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	7.42	Baseline	desjardin sb	10/06/15 10:36
Cyclohexane	10.68	Baseline	desjardin sb	10/06/15 10:36
Trichloroethene	12.74	Baseline	desjardin sb	10/06/15 10:36
Methyl Butyl Ketone (2-Hexanone)	16.99	Baseline	desjardin sb	10/06/15 10:36

Lab Sample ID: 200-29972-17 Client Sample ID: FR-SS09-092315

Date Analyzed: 10/06/15 02:44 Lab File ID: 16087_23.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	6.34	Baseline	desjardin sb	10/06/15 11:47
Chloroform	10.41	Baseline	desjardin sb	10/06/15 11:47
Cyclohexane	10.69	Baseline	desjardin sb	10/06/15 11:47

Lab Sample ID: 200-29972-19 Client Sample ID: FR-SSDUP-092315

Date Analyzed: 10/06/15 03:33 Lab File ID: 16087_24.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon TF	6.29	Baseline	desjardin sb	10/06/15 11:49
Cyclohexane	10.68	Baseline	desjardin sb	10/06/15 11:49

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Analysis Batch Number: 95027

Lab Sample ID: 200-29972-20 Client Sample ID: FR-SS10-092315

Date Analyzed: 10/06/15 04:22 Lab File ID: 16087_25.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	10.65	Baseline	desjardin sb	10/06/15 11:51
Tetrachloroethene	16.57	Baseline	desjardin sb	10/06/15 11:51
Ethylbenzene	18.64	Baseline	desjardin sb	10/06/15 11:51

SAMPLE SUMMARY

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-29972-1	FR-SS01-092315	Air	09/23/2015 1719	09/25/2015 1330
200-29972-2	FR-IA01-092315	Air	09/23/2015 1719	09/25/2015 1330
200-29972-3	FR-SS02-092315	Air	09/23/2015 1717	09/25/2015 1330
200-29972-4	FR-IA02-092315	Air	09/23/2015 1717	09/25/2015 1330
200-29972-5	FR-SS03-092315	Air	09/23/2015 1731	09/25/2015 1330
200-29972-6	FR-IA03-092315	Air	09/23/2015 1731	09/25/2015 1330
200-29972-7	FR-SS04-092315	Air	09/23/2015 1746	09/25/2015 1330
200-29972-8	FR-IA04-092315	Air	09/23/2015 1746	09/25/2015 1330
200-29972-9	FR-SS05-092315	Air	09/23/2015 1751	09/25/2015 1330
200-29972-10	FR-IA05-092315	Air	09/23/2015 1751	09/25/2015 1330
200-29972-11	FR-SS06-092315	Air	09/23/2015 1759	09/25/2015 1330
200-29972-12	FR-IA06-092315	Air	09/23/2015 1759	09/25/2015 1330
200-29972-13	FR-SS07-092315	Air	09/23/2015 1814	09/25/2015 1330
200-29972-14	FR-IA07-092315	Air	09/23/2015 1814	09/25/2015 1330
200-29972-15	FR-SS08-092315	Air	09/23/2015 1809	09/25/2015 1330
200-29972-16	FR-IA08-092315	Air	09/23/2015 1809	09/25/2015 1330
200-29972-17	FR-SS09-092315	Air	09/23/2015 1827	09/25/2015 1330
200-29972-18	FR-IA09-092315	Air	09/23/2015 1831	09/25/2015 1330
200-29972-19	FR-SSDUP-092315	Air	09/23/2015 1831	09/25/2015 1330
200-29972-20	FR-SS10-092315	Air	09/23/2015 1834	09/25/2015 1330
200-29972-21	FR-IA10-092315	Air	09/23/2015 1834	09/25/2015 1330
200-29972-22	FR-AA-092315	Air	09/23/2015 1739	09/25/2015 1330

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-1	**FR-SS01-092315**					
Dichlorodifluoromethane		0.48	J	0.50	ppb v/v	TO-15
Dichlorodifluoromethane		2.4	J	2.5	ug/m3	TO-15
Freon 22		0.12	J	0.50	ppb v/v	TO-15
Freon 22		0.44	J	1.8	ug/m3	TO-15
Chloromethane		0.13	J	0.50	ppb v/v	TO-15
Chloromethane		0.26	J	1.0	ug/m3	TO-15
n-Butane		5.4		0.50	ppb v/v	TO-15
n-Butane		13		1.2	ug/m3	TO-15
Trichlorofluoromethane		0.27		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.5		1.1	ug/m3	TO-15
Acetone		17		5.0	ppb v/v	TO-15
Acetone		41		12	ug/m3	TO-15
Carbon disulfide		0.76		0.50	ppb v/v	TO-15
Carbon disulfide		2.4		1.6	ug/m3	TO-15
Methylene Chloride		0.35	J	0.50	ppb v/v	TO-15
Methylene Chloride		1.2	J	1.7	ug/m3	TO-15
n-Hexane		1.5		0.20	ppb v/v	TO-15
n-Hexane		5.3		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		0.72		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.1		1.5	ug/m3	TO-15
Chloroform		5.3		0.20	ppb v/v	TO-15
Chloroform		26		0.98	ug/m3	TO-15
1,1,1-Trichloroethane		3.1		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		17		1.1	ug/m3	TO-15
Cyclohexane		0.51		0.20	ppb v/v	TO-15
Cyclohexane		1.8		0.69	ug/m3	TO-15
2,2,4-Trimethylpentane		0.043	J	0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.20	J	0.93	ug/m3	TO-15
Benzene		1.1		0.20	ppb v/v	TO-15
Benzene		3.5		0.64	ug/m3	TO-15
n-Heptane		0.93		0.20	ppb v/v	TO-15
n-Heptane		3.8		0.82	ug/m3	TO-15
Trichloroethene		2.0		0.040	ppb v/v	TO-15
Trichloroethene		11		0.21	ug/m3	TO-15
Bromodichloromethane		0.15	J	0.20	ppb v/v	TO-15
Bromodichloromethane		1.0	J	1.3	ug/m3	TO-15
Toluene		3.3		0.20	ppb v/v	TO-15
Toluene		12		0.75	ug/m3	TO-15
Tetrachloroethene		2.2		0.20	ppb v/v	TO-15
Tetrachloroethene		15		1.4	ug/m3	TO-15
Methyl Butyl Ketone (2-Hexanone)		0.070	J	0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)		0.29	J	2.0	ug/m3	TO-15
Ethylbenzene		0.088	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.38	J	0.87	ug/m3	TO-15
m,p-Xylene		0.46	J	0.50	ppb v/v	TO-15
m,p-Xylene		2.0	J	2.2	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Xylene, o-		0.13	J	0.20	ppb v/v	TO-15
Xylene, o-		0.56	J	0.87	ug/m3	TO-15
Xylene (total)		0.59	J	0.70	ppb v/v	TO-15
Xylene (total)		2.6	J	3.0	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.065	J	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		0.32	J	0.98	ug/m3	TO-15
Naphthalene		0.15	J	0.50	ppb v/v	TO-15
Naphthalene		0.81	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-2	**FR-IA01-092315**					
Dichlorodifluoromethane		0.60		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.0		2.5	ug/m3	TO-15
Freon 22		0.36	J	0.50	ppb v/v	TO-15
Freon 22		1.3	J	1.8	ug/m3	TO-15
Chloromethane		0.60		0.50	ppb v/v	TO-15
Chloromethane		1.2		1.0	ug/m3	TO-15
n-Butane		94	D	1.5	ppb v/v	TO-15
n-Butane		220	D	3.6	ug/m3	TO-15
Trichlorofluoromethane		0.33		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.8		1.1	ug/m3	TO-15
Acetone		9.0		5.0	ppb v/v	TO-15
Acetone		21		12	ug/m3	TO-15
Isopropyl alcohol		1.9	J	5.0	ppb v/v	TO-15
Isopropyl alcohol		4.6	J	12	ug/m3	TO-15
n-Hexane		34		0.20	ppb v/v	TO-15
n-Hexane		120		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		1.6		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		4.7		1.5	ug/m3	TO-15
Cyclohexane		5.5		0.20	ppb v/v	TO-15
Cyclohexane		19		0.69	ug/m3	TO-15
Carbon tetrachloride		0.093		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.59		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		11		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		50		0.93	ug/m3	TO-15
Benzene		12		0.20	ppb v/v	TO-15
Benzene		39		0.64	ug/m3	TO-15
n-Heptane		8.5		0.20	ppb v/v	TO-15
n-Heptane		35		0.82	ug/m3	TO-15
methyl isobutyl ketone		0.96		0.50	ppb v/v	TO-15
methyl isobutyl ketone		3.9		2.0	ug/m3	TO-15
Toluene		58	D	0.60	ppb v/v	TO-15
Toluene		220	D	2.3	ug/m3	TO-15
Tetrachloroethene		0.082	J	0.20	ppb v/v	TO-15
Tetrachloroethene		0.56	J	1.4	ug/m3	TO-15
Ethylbenzene		7.3		0.20	ppb v/v	TO-15
Ethylbenzene		32		0.87	ug/m3	TO-15
m,p-Xylene		25		0.50	ppb v/v	TO-15
m,p-Xylene		110		2.2	ug/m3	TO-15
Xylene, o-		7.9		0.20	ppb v/v	TO-15
Xylene, o-		34		0.87	ug/m3	TO-15
Xylene (total)		33		0.70	ppb v/v	TO-15
Xylene (total)		140		3.0	ug/m3	TO-15
Cumene		0.47		0.20	ppb v/v	TO-15
Cumene		2.3		0.98	ug/m3	TO-15
n-Propylbenzene		0.53		0.20	ppb v/v	TO-15
n-Propylbenzene		2.6		0.98	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
4-Ethyltoluene		0.81		0.20	ppb v/v	TO-15
4-Ethyltoluene		4.0		0.98	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.51		0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene		2.5		0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene		1.3		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		6.6		0.98	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-3	**FR-SS02-092315**					
Dichlorodifluoromethane		0.44	J	2.0	ppb v/v	TO-15
Dichlorodifluoromethane		2.2	J	9.9	ug/m3	TO-15
n-Butane		4.7		2.0	ppb v/v	TO-15
n-Butane		11		4.8	ug/m3	TO-15
Trichlorofluoromethane		1.0		0.80	ppb v/v	TO-15
Trichlorofluoromethane		5.7		4.5	ug/m3	TO-15
Acetone		7.1	J	20	ppb v/v	TO-15
Acetone		17	J	48	ug/m3	TO-15
Carbon disulfide		1.6	J	2.0	ppb v/v	TO-15
Carbon disulfide		4.9	J	6.2	ug/m3	TO-15
n-Hexane		0.89		0.80	ppb v/v	TO-15
n-Hexane		3.1		2.8	ug/m3	TO-15
Methyl Ethyl Ketone		0.60	J	2.0	ppb v/v	TO-15
Methyl Ethyl Ketone		1.8	J	5.9	ug/m3	TO-15
Chloroform		3.5		0.80	ppb v/v	TO-15
Chloroform		17		3.9	ug/m3	TO-15
1,1,1-Trichloroethane		0.75	J	0.80	ppb v/v	TO-15
1,1,1-Trichloroethane		4.1	J	4.4	ug/m3	TO-15
Cyclohexane		0.37	J	0.80	ppb v/v	TO-15
Cyclohexane		1.3	J	2.8	ug/m3	TO-15
Benzene		0.84		0.80	ppb v/v	TO-15
Benzene		2.7		2.6	ug/m3	TO-15
n-Heptane		0.68	J	0.80	ppb v/v	TO-15
n-Heptane		2.8	J	3.3	ug/m3	TO-15
Trichloroethene		63		0.16	ppb v/v	TO-15
Trichloroethene		340		0.86	ug/m3	TO-15
Bromodichloromethane		0.85		0.80	ppb v/v	TO-15
Bromodichloromethane		5.7		5.4	ug/m3	TO-15
Toluene		2.8		0.80	ppb v/v	TO-15
Toluene		11		3.0	ug/m3	TO-15
Tetrachloroethene		0.51	J	0.80	ppb v/v	TO-15
Tetrachloroethene		3.5	J	5.4	ug/m3	TO-15
Ethylbenzene		0.32	J	0.80	ppb v/v	TO-15
Ethylbenzene		1.4	J	3.5	ug/m3	TO-15
m,p-Xylene		1.4	J	2.0	ppb v/v	TO-15
m,p-Xylene		6.0	J	8.7	ug/m3	TO-15
Xylene, o-		0.50	J	0.80	ppb v/v	TO-15
Xylene, o-		2.2	J	3.5	ug/m3	TO-15
Xylene (total)		1.9	J	2.8	ppb v/v	TO-15
Xylene (total)		8.3	J	12	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.25	J	0.80	ppb v/v	TO-15
1,3,5-Trimethylbenzene		1.3	J	3.9	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.65	J	0.80	ppb v/v	TO-15
1,2,4-Trimethylbenzene		3.2	J	3.9	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-4	**FR-IA02-092315**					
Dichlorodifluoromethane		0.54		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		2.7		2.5	ug/m3	TO-15
Freon 22		0.32	J	0.50	ppb v/v	TO-15
Freon 22		1.1	J	1.8	ug/m3	TO-15
Chloromethane		0.52		0.50	ppb v/v	TO-15
Chloromethane		1.1		1.0	ug/m3	TO-15
n-Butane		110	D	2.5	ppb v/v	TO-15
n-Butane		260	D	5.9	ug/m3	TO-15
Trichlorofluoromethane		0.25		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.4		1.1	ug/m3	TO-15
Freon TF		0.081	J	0.20	ppb v/v	TO-15
Freon TF		0.62	J	1.5	ug/m3	TO-15
Acetone		22		5.0	ppb v/v	TO-15
Acetone		51		12	ug/m3	TO-15
Isopropyl alcohol		2.3	J	5.0	ppb v/v	TO-15
Isopropyl alcohol		5.7	J	12	ug/m3	TO-15
Carbon disulfide		0.14	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.45	J	1.6	ug/m3	TO-15
Methylene Chloride		0.28	J	0.50	ppb v/v	TO-15
Methylene Chloride		0.97	J	1.7	ug/m3	TO-15
n-Hexane		21		0.20	ppb v/v	TO-15
n-Hexane		73		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		3.3		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		9.6		1.5	ug/m3	TO-15
Cyclohexane		3.9		0.20	ppb v/v	TO-15
Cyclohexane		13		0.69	ug/m3	TO-15
Carbon tetrachloride		0.074		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.47		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		12		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		54		0.93	ug/m3	TO-15
Benzene		6.2		0.20	ppb v/v	TO-15
Benzene		20		0.64	ug/m3	TO-15
n-Heptane		4.2		0.20	ppb v/v	TO-15
n-Heptane		17		0.82	ug/m3	TO-15
Trichloroethene		0.044		0.040	ppb v/v	TO-15
Trichloroethene		0.23		0.21	ug/m3	TO-15
methyl isobutyl ketone		3.0		0.50	ppb v/v	TO-15
methyl isobutyl ketone		12		2.0	ug/m3	TO-15
Toluene		28		0.20	ppb v/v	TO-15
Toluene		100		0.75	ug/m3	TO-15
Tetrachloroethene		0.16	J	0.20	ppb v/v	TO-15
Tetrachloroethene		1.1	J	1.4	ug/m3	TO-15
Methyl Butyl Ketone (2-Hexanone)		0.55		0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)		2.3		2.0	ug/m3	TO-15
Ethylbenzene		4.2		0.20	ppb v/v	TO-15
Ethylbenzene		18		0.87	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
m,p-Xylene		16		0.50	ppb v/v	TO-15
m,p-Xylene		68		2.2	ug/m3	TO-15
Xylene, o-		6.0		0.20	ppb v/v	TO-15
Xylene, o-		26		0.87	ug/m3	TO-15
Xylene (total)		22		0.70	ppb v/v	TO-15
Xylene (total)		96		3.0	ug/m3	TO-15
Cumene		0.79		0.20	ppb v/v	TO-15
Cumene		3.9		0.98	ug/m3	TO-15
n-Propylbenzene		0.99		0.20	ppb v/v	TO-15
n-Propylbenzene		4.9		0.98	ug/m3	TO-15
4-Ethyltoluene		2.5		0.20	ppb v/v	TO-15
4-Ethyltoluene		12		0.98	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.8		0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene		14		0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene		11		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		56		0.98	ug/m3	TO-15
sec-Butylbenzene		0.27		0.20	ppb v/v	TO-15
sec-Butylbenzene		1.5		1.1	ug/m3	TO-15
4-Isopropyltoluene		1.3		0.20	ppb v/v	TO-15
4-Isopropyltoluene		7.2		1.1	ug/m3	TO-15
n-Butylbenzene		1.2		0.20	ppb v/v	TO-15
n-Butylbenzene		6.9		1.1	ug/m3	TO-15
Naphthalene		15		0.50	ppb v/v	TO-15
Naphthalene		78		2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-5	**FR-SS03-092315**					
Dichlorodifluoromethane		1.3		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		6.2		2.5	ug/m3	TO-15
Freon 22		0.17	J	0.50	ppb v/v	TO-15
Freon 22		0.59	J	1.8	ug/m3	TO-15
n-Butane		0.34	J	0.50	ppb v/v	TO-15
n-Butane		0.81	J	1.2	ug/m3	TO-15
Trichlorofluoromethane		4.2		0.20	ppb v/v	TO-15
Trichlorofluoromethane		24		1.1	ug/m3	TO-15
Acetone		4.3	J	5.0	ppb v/v	TO-15
Acetone		10	J	12	ug/m3	TO-15
Carbon disulfide		0.27	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.84	J	1.6	ug/m3	TO-15
Methylene Chloride		0.44	J	0.50	ppb v/v	TO-15
Methylene Chloride		1.5	J	1.7	ug/m3	TO-15
n-Hexane		0.22		0.20	ppb v/v	TO-15
n-Hexane		0.79		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		0.75		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.2		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		9.6		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		52		1.1	ug/m3	TO-15
Carbon tetrachloride		0.12		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.74		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.055	J	0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.25	J	0.93	ug/m3	TO-15
Benzene		0.12	J	0.20	ppb v/v	TO-15
Benzene		0.40	J	0.64	ug/m3	TO-15
n-Heptane		0.12	J	0.20	ppb v/v	TO-15
n-Heptane		0.48	J	0.82	ug/m3	TO-15
Trichloroethene		0.20		0.040	ppb v/v	TO-15
Trichloroethene		1.1		0.21	ug/m3	TO-15
methyl isobutyl ketone		0.46	J	0.50	ppb v/v	TO-15
methyl isobutyl ketone		1.9	J	2.0	ug/m3	TO-15
Toluene		0.48		0.20	ppb v/v	TO-15
Toluene		1.8		0.75	ug/m3	TO-15
Tetrachloroethene		0.054	J	0.20	ppb v/v	TO-15
Tetrachloroethene		0.37	J	1.4	ug/m3	TO-15
Ethylbenzene		0.068	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.30	J	0.87	ug/m3	TO-15
m,p-Xylene		0.25	J	0.50	ppb v/v	TO-15
m,p-Xylene		1.1	J	2.2	ug/m3	TO-15
Xylene, o-		0.092	J	0.20	ppb v/v	TO-15
Xylene, o-		0.40	J	0.87	ug/m3	TO-15
Xylene (total)		0.34	J	0.70	ppb v/v	TO-15
Xylene (total)		1.5	J	3.0	ug/m3	TO-15
Styrene		0.066	J	0.20	ppb v/v	TO-15
Styrene		0.28	J	0.85	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Naphthalene		0.068	J	0.50	ppb v/v	TO-15
Naphthalene		0.36	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-6	**FR-IA03-092315**					
Dichlorodifluoromethane		0.65		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.2		2.5	ug/m3	TO-15
Freon 22		0.44	J	0.50	ppb v/v	TO-15
Freon 22		1.6	J	1.8	ug/m3	TO-15
Chloromethane		0.53		0.50	ppb v/v	TO-15
Chloromethane		1.1		1.0	ug/m3	TO-15
n-Butane		4.0		0.50	ppb v/v	TO-15
n-Butane		9.5		1.2	ug/m3	TO-15
Trichlorofluoromethane		32		0.20	ppb v/v	TO-15
Trichlorofluoromethane		180		1.1	ug/m3	TO-15
1,1-Dichloroethene		0.19	J	0.20	ppb v/v	TO-15
1,1-Dichloroethene		0.76	J	0.79	ug/m3	TO-15
Acetone		4.4	J	5.0	ppb v/v	TO-15
Acetone		11	J	12	ug/m3	TO-15
Isopropyl alcohol		1.5	J	5.0	ppb v/v	TO-15
Isopropyl alcohol		3.7	J	12	ug/m3	TO-15
Methylene Chloride		0.21	J	0.50	ppb v/v	TO-15
Methylene Chloride		0.72	J	1.7	ug/m3	TO-15
n-Hexane		0.41		0.20	ppb v/v	TO-15
n-Hexane		1.4		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.057	J	0.20	ppb v/v	TO-15
1,1-Dichloroethane		0.23	J	0.81	ug/m3	TO-15
Methyl Ethyl Ketone		0.65		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		1.9		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		0.10	J	0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		0.55	J	1.1	ug/m3	TO-15
Cyclohexane		0.099	J	0.20	ppb v/v	TO-15
Cyclohexane		0.34	J	0.69	ug/m3	TO-15
Carbon tetrachloride		0.093		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.58		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.14	J	0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.68	J	0.93	ug/m3	TO-15
Benzene		0.32		0.20	ppb v/v	TO-15
Benzene		1.0		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.12	J	0.20	ppb v/v	TO-15
1,2-Dichloroethane		0.47	J	0.81	ug/m3	TO-15
n-Heptane		0.097	J	0.20	ppb v/v	TO-15
n-Heptane		0.40	J	0.82	ug/m3	TO-15
Trichloroethene		0.047		0.040	ppb v/v	TO-15
Trichloroethene		0.26		0.21	ug/m3	TO-15
Toluene		0.65		0.20	ppb v/v	TO-15
Toluene		2.5		0.75	ug/m3	TO-15
Ethylbenzene		0.095	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.41	J	0.87	ug/m3	TO-15
m,p-Xylene		0.33	J	0.50	ppb v/v	TO-15
m,p-Xylene		1.4	J	2.2	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Xylene, o-		0.12	J	0.20	ppb v/v	TO-15
Xylene, o-		0.51	J	0.87	ug/m3	TO-15
Xylene (total)		0.45	J	0.70	ppb v/v	TO-15
Xylene (total)		2.0	J	3.0	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.083	J	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		0.41	J	0.98	ug/m3	TO-15
200-29972-7	**FR-SS04-092315**					
Dichlorodifluoromethane		4.0	J	5.0	ppb v/v	TO-15
Dichlorodifluoromethane		20	J	25	ug/m3	TO-15
Trichlorofluoromethane		34		2.0	ppb v/v	TO-15
Trichlorofluoromethane		190		11	ug/m3	TO-15
1,1-Dichloroethene		5.1		2.0	ppb v/v	TO-15
1,1-Dichloroethene		20		7.9	ug/m3	TO-15
Acetone		14	J	50	ppb v/v	TO-15
Acetone		33	J	120	ug/m3	TO-15
Chloroform		33		2.0	ppb v/v	TO-15
Chloroform		160		9.8	ug/m3	TO-15
1,1,1-Trichloroethane		20		2.0	ppb v/v	TO-15
1,1,1-Trichloroethane		110		11	ug/m3	TO-15
Benzene		0.48	J	2.0	ppb v/v	TO-15
Benzene		1.5	J	6.4	ug/m3	TO-15
Trichloroethene		210		0.40	ppb v/v	TO-15
Trichloroethene		1100		2.1	ug/m3	TO-15
Bromodichloromethane		2.9		2.0	ppb v/v	TO-15
Bromodichloromethane		20		13	ug/m3	TO-15
Tetrachloroethene		2.4		2.0	ppb v/v	TO-15
Tetrachloroethene		17		14	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-8	**FR-IA04-092315**					
Dichlorodifluoromethane		0.60		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		2.9		2.5	ug/m3	TO-15
Freon 22		0.40	J	0.50	ppb v/v	TO-15
Freon 22		1.4	J	1.8	ug/m3	TO-15
Chloromethane		1.3		0.50	ppb v/v	TO-15
Chloromethane		2.6		1.0	ug/m3	TO-15
n-Butane		2.8		0.50	ppb v/v	TO-15
n-Butane		6.8		1.2	ug/m3	TO-15
Chloroethane		0.14	J	0.50	ppb v/v	TO-15
Chloroethane		0.37	J	1.3	ug/m3	TO-15
Trichlorofluoromethane		32		0.20	ppb v/v	TO-15
Trichlorofluoromethane		180		1.1	ug/m3	TO-15
1,1-Dichloroethene		0.14	J	0.20	ppb v/v	TO-15
1,1-Dichloroethene		0.57	J	0.79	ug/m3	TO-15
Acetone		14		5.0	ppb v/v	TO-15
Acetone		34		12	ug/m3	TO-15
Isopropyl alcohol		1.2	J	5.0	ppb v/v	TO-15
Isopropyl alcohol		3.1	J	12	ug/m3	TO-15
Methylene Chloride		0.19	J	0.50	ppb v/v	TO-15
Methylene Chloride		0.65	J	1.7	ug/m3	TO-15
n-Hexane		0.36		0.20	ppb v/v	TO-15
n-Hexane		1.3		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.035	J	0.20	ppb v/v	TO-15
1,1-Dichloroethane		0.14	J	0.81	ug/m3	TO-15
Methyl Ethyl Ketone		2.3		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		6.8		1.5	ug/m3	TO-15
Chloroform		0.18	J	0.20	ppb v/v	TO-15
Chloroform		0.88	J	0.98	ug/m3	TO-15
1,1,1-Trichloroethane		0.058	J	0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		0.32	J	1.1	ug/m3	TO-15
Cyclohexane		0.11	J	0.20	ppb v/v	TO-15
Cyclohexane		0.39	J	0.69	ug/m3	TO-15
Carbon tetrachloride		0.062		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.39		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.11	J	0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.51	J	0.93	ug/m3	TO-15
Benzene		0.26		0.20	ppb v/v	TO-15
Benzene		0.83		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.066	J	0.20	ppb v/v	TO-15
1,2-Dichloroethane		0.27	J	0.81	ug/m3	TO-15
1,4-Dioxane		4.3	J	5.0	ppb v/v	TO-15
1,4-Dioxane		15	J	18	ug/m3	TO-15
methyl isobutyl ketone		0.17	J	0.50	ppb v/v	TO-15
methyl isobutyl ketone		0.69	J	2.0	ug/m3	TO-15
Toluene		0.53		0.20	ppb v/v	TO-15
Toluene		2.0		0.75	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Methyl Butyl Ketone (2-Hexanone)		0.34	J	0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)		1.4	J	2.0	ug/m3	TO-15
Ethylbenzene		0.077	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.33	J	0.87	ug/m3	TO-15
m,p-Xylene		0.24	J	0.50	ppb v/v	TO-15
m,p-Xylene		1.0	J	2.2	ug/m3	TO-15
Xylene, o-		0.12	J	0.20	ppb v/v	TO-15
Xylene, o-		0.53	J	0.87	ug/m3	TO-15
Xylene (total)		0.36	J	0.70	ppb v/v	TO-15
Xylene (total)		1.6	J	3.0	ug/m3	TO-15
Styrene		0.054	J	0.20	ppb v/v	TO-15
Styrene		0.23	J	0.85	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.069	J	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		0.34	J	0.98	ug/m3	TO-15
200-29972-9	**FR-SS05-092315**					
n-Butane		25	J	88	ppb v/v	TO-15
n-Butane		59	J	210	ug/m3	TO-15
Trichlorofluoromethane		73		35	ppb v/v	TO-15
Trichlorofluoromethane		410		200	ug/m3	TO-15
1,1-Dichloroethene		19000	D	190	ppb v/v	TO-15
1,1-Dichloroethene		76000	D	740	ug/m3	TO-15
1,1-Dichloroethane		4200		35	ppb v/v	TO-15
1,1-Dichloroethane		17000		140	ug/m3	TO-15
1,1,1-Trichloroethane		35		35	ppb v/v	TO-15
1,1,1-Trichloroethane		190		190	ug/m3	TO-15
Benzene		14	J	35	ppb v/v	TO-15
Benzene		44	J	110	ug/m3	TO-15
1,2-Dichloroethane		32	J	35	ppb v/v	TO-15
1,2-Dichloroethane		130	J	140	ug/m3	TO-15
Trichloroethene		460		7.0	ppb v/v	TO-15
Trichloroethene		2400		38	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-10	**FR-IA05-092315**					
Dichlorodifluoromethane		0.76		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.7		2.5	ug/m3	TO-15
Freon 22		0.77		0.50	ppb v/v	TO-15
Freon 22		2.7		1.8	ug/m3	TO-15
Chloromethane		0.64		0.50	ppb v/v	TO-15
Chloromethane		1.3		1.0	ug/m3	TO-15
n-Butane		7.4		0.50	ppb v/v	TO-15
n-Butane		17		1.2	ug/m3	TO-15
Trichlorofluoromethane		55	D	0.60	ppb v/v	TO-15
Trichlorofluoromethane		310	D	3.4	ug/m3	TO-15
1,1-Dichloroethene		1.7		0.20	ppb v/v	TO-15
1,1-Dichloroethene		6.8		0.79	ug/m3	TO-15
Acetone		11		5.0	ppb v/v	TO-15
Acetone		26		12	ug/m3	TO-15
Isopropyl alcohol		13		5.0	ppb v/v	TO-15
Isopropyl alcohol		32		12	ug/m3	TO-15
Carbon disulfide		0.13	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.39	J	1.6	ug/m3	TO-15
Methylene Chloride		0.32	J	0.50	ppb v/v	TO-15
Methylene Chloride		1.1	J	1.7	ug/m3	TO-15
n-Hexane		0.85		0.20	ppb v/v	TO-15
n-Hexane		3.0		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.56		0.20	ppb v/v	TO-15
1,1-Dichloroethane		2.3		0.81	ug/m3	TO-15
Methyl Ethyl Ketone		1.1		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		3.3		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		0.77		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		4.2		1.1	ug/m3	TO-15
Cyclohexane		0.25		0.20	ppb v/v	TO-15
Cyclohexane		0.85		0.69	ug/m3	TO-15
Carbon tetrachloride		0.095		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.60		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.42		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		2.0		0.93	ug/m3	TO-15
Benzene		0.71		0.20	ppb v/v	TO-15
Benzene		2.3		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.70		0.20	ppb v/v	TO-15
1,2-Dichloroethane		2.8		0.81	ug/m3	TO-15
n-Heptane		0.26		0.20	ppb v/v	TO-15
n-Heptane		1.1		0.82	ug/m3	TO-15
Trichloroethene		0.049		0.040	ppb v/v	TO-15
Trichloroethene		0.26		0.21	ug/m3	TO-15
methyl isobutyl ketone		0.22	J	0.50	ppb v/v	TO-15
methyl isobutyl ketone		0.89	J	2.0	ug/m3	TO-15
Toluene		1.9		0.20	ppb v/v	TO-15
Toluene		7.2		0.75	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Tetrachloroethene		0.064	J	0.20	ppb v/v	TO-15
Tetrachloroethene		0.43	J	1.4	ug/m3	TO-15
Ethylbenzene		0.25		0.20	ppb v/v	TO-15
Ethylbenzene		1.1		0.87	ug/m3	TO-15
m,p-Xylene		0.92		0.50	ppb v/v	TO-15
m,p-Xylene		4.0		2.2	ug/m3	TO-15
Xylene, o-		0.33		0.20	ppb v/v	TO-15
Xylene, o-		1.4		0.87	ug/m3	TO-15
Xylene (total)		1.3		0.70	ppb v/v	TO-15
Xylene (total)		5.4		3.0	ug/m3	TO-15
Styrene		0.17	J	0.20	ppb v/v	TO-15
Styrene		0.73	J	0.85	ug/m3	TO-15
Cumene		0.042	J	0.20	ppb v/v	TO-15
Cumene		0.21	J	0.98	ug/m3	TO-15
n-Propylbenzene		0.051	J	0.20	ppb v/v	TO-15
n-Propylbenzene		0.25	J	0.98	ug/m3	TO-15
4-Ethyltoluene		0.084	J	0.20	ppb v/v	TO-15
4-Ethyltoluene		0.41	J	0.98	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.086	J	0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene		0.42	J	0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.35		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.7		0.98	ug/m3	TO-15
4-Isopropyltoluene		0.096	J	0.20	ppb v/v	TO-15
4-Isopropyltoluene		0.53	J	1.1	ug/m3	TO-15
1,4-Dichlorobenzene		0.069	J	0.20	ppb v/v	TO-15
1,4-Dichlorobenzene		0.41	J	1.2	ug/m3	TO-15
Naphthalene		0.16	J	0.50	ppb v/v	TO-15
Naphthalene		0.83	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-11	**FR-SS06-092315**					
Dichlorodifluoromethane		0.60		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.0		2.5	ug/m3	TO-15
Freon 22		0.19	J	0.50	ppb v/v	TO-15
Freon 22		0.67	J	1.8	ug/m3	TO-15
n-Butane		0.19	J	0.50	ppb v/v	TO-15
n-Butane		0.46	J	1.2	ug/m3	TO-15
Trichlorofluoromethane		21		0.20	ppb v/v	TO-15
Trichlorofluoromethane		120		1.1	ug/m3	TO-15
Acetone		7.2		5.0	ppb v/v	TO-15
Acetone		17		12	ug/m3	TO-15
Carbon disulfide		0.29	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.91	J	1.6	ug/m3	TO-15
n-Hexane		0.18	J	0.20	ppb v/v	TO-15
n-Hexane		0.63	J	0.70	ug/m3	TO-15
Methyl Ethyl Ketone		1.5		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		4.3		1.5	ug/m3	TO-15
Tetrahydrofuran		2.2	J	5.0	ppb v/v	TO-15
Tetrahydrofuran		6.4	J	15	ug/m3	TO-15
1,1,1-Trichloroethane		14		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		74		1.1	ug/m3	TO-15
Cyclohexane		0.27		0.20	ppb v/v	TO-15
Cyclohexane		0.94		0.69	ug/m3	TO-15
Carbon tetrachloride		0.086		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.54		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.090	J	0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.42	J	0.93	ug/m3	TO-15
Benzene		0.23		0.20	ppb v/v	TO-15
Benzene		0.74		0.64	ug/m3	TO-15
Trichloroethene		0.14		0.040	ppb v/v	TO-15
Trichloroethene		0.77		0.21	ug/m3	TO-15
methyl isobutyl ketone		0.62		0.50	ppb v/v	TO-15
methyl isobutyl ketone		2.6		2.0	ug/m3	TO-15
Toluene		0.70		0.20	ppb v/v	TO-15
Toluene		2.6		0.75	ug/m3	TO-15
Tetrachloroethene		0.90		0.20	ppb v/v	TO-15
Tetrachloroethene		6.1		1.4	ug/m3	TO-15
Methyl Butyl Ketone (2-Hexanone)		0.073	J	0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)		0.30	J	2.0	ug/m3	TO-15
Ethylbenzene		0.094	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.41	J	0.87	ug/m3	TO-15
m,p-Xylene		0.31	J	0.50	ppb v/v	TO-15
m,p-Xylene		1.4	J	2.2	ug/m3	TO-15
Xylene, o-		0.13	J	0.20	ppb v/v	TO-15
Xylene, o-		0.57	J	0.87	ug/m3	TO-15
Xylene (total)		0.44	J	0.70	ppb v/v	TO-15
Xylene (total)		1.9	J	3.0	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Styrene		0.12	J	0.20	ppb v/v	TO-15
Styrene		0.51	J	0.85	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.062	J	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		0.30	J	0.98	ug/m3	TO-15
Naphthalene		0.21	J	0.50	ppb v/v	TO-15
Naphthalene		1.1	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-12	**FR-IA06-092315**					
Dichlorodifluoromethane		0.69		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.4		2.5	ug/m3	TO-15
Freon 22		0.59		0.50	ppb v/v	TO-15
Freon 22		2.1		1.8	ug/m3	TO-15
Chloromethane		0.59		0.50	ppb v/v	TO-15
Chloromethane		1.2		1.0	ug/m3	TO-15
n-Butane		5.4		0.50	ppb v/v	TO-15
n-Butane		13		1.2	ug/m3	TO-15
Trichlorofluoromethane		44	D	0.40	ppb v/v	TO-15
Trichlorofluoromethane		250	D	2.2	ug/m3	TO-15
1,1-Dichloroethene		0.48		0.20	ppb v/v	TO-15
1,1-Dichloroethene		1.9		0.79	ug/m3	TO-15
Acetone		7.0		5.0	ppb v/v	TO-15
Acetone		17		12	ug/m3	TO-15
Isopropyl alcohol		4.6	J	5.0	ppb v/v	TO-15
Isopropyl alcohol		11	J	12	ug/m3	TO-15
Carbon disulfide		0.045	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.14	J	1.6	ug/m3	TO-15
Methylene Chloride		0.27	J	0.50	ppb v/v	TO-15
Methylene Chloride		0.95	J	1.7	ug/m3	TO-15
n-Hexane		0.59		0.20	ppb v/v	TO-15
n-Hexane		2.1		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.16	J	0.20	ppb v/v	TO-15
1,1-Dichloroethane		0.66	J	0.81	ug/m3	TO-15
Methyl Ethyl Ketone		0.71		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.1		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		0.33		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		1.8		1.1	ug/m3	TO-15
Cyclohexane		0.13	J	0.20	ppb v/v	TO-15
Cyclohexane		0.45	J	0.69	ug/m3	TO-15
Carbon tetrachloride		0.092		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.58		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.23		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		1.1		0.93	ug/m3	TO-15
Benzene		0.46		0.20	ppb v/v	TO-15
Benzene		1.5		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.39		0.20	ppb v/v	TO-15
1,2-Dichloroethane		1.6		0.81	ug/m3	TO-15
n-Heptane		0.16	J	0.20	ppb v/v	TO-15
n-Heptane		0.66	J	0.82	ug/m3	TO-15
Toluene		1.1		0.20	ppb v/v	TO-15
Toluene		4.0		0.75	ug/m3	TO-15
Tetrachloroethene		0.043	J	0.20	ppb v/v	TO-15
Tetrachloroethene		0.29	J	1.4	ug/m3	TO-15
Ethylbenzene		0.15	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.66	J	0.87	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
m,p-Xylene		0.51		0.50	ppb v/v	TO-15
m,p-Xylene		2.2		2.2	ug/m3	TO-15
Xylene, o-		0.18	J	0.20	ppb v/v	TO-15
Xylene, o-		0.79	J	0.87	ug/m3	TO-15
Xylene (total)		0.69	J	0.70	ppb v/v	TO-15
Xylene (total)		3.0	J	3.0	ug/m3	TO-15
Styrene		0.076	J	0.20	ppb v/v	TO-15
Styrene		0.32	J	0.85	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.12	J	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		0.61	J	0.98	ug/m3	TO-15
4-Isopropyltoluene		0.037	J	0.20	ppb v/v	TO-15
4-Isopropyltoluene		0.20	J	1.1	ug/m3	TO-15
200-29972-13	**FR-SS07-092315**					
Dichlorodifluoromethane		0.64	J	2.5	ppb v/v	TO-15
Dichlorodifluoromethane		3.2	J	12	ug/m3	TO-15
Trichlorofluoromethane		92		1.0	ppb v/v	TO-15
Trichlorofluoromethane		520		5.6	ug/m3	TO-15
1,1,1-Trichloroethane		8.8		1.0	ppb v/v	TO-15
1,1,1-Trichloroethane		48		5.5	ug/m3	TO-15
Tetrachloroethene		0.12	J	1.0	ppb v/v	TO-15
Tetrachloroethene		0.80	J	6.8	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-14	**FR-IA07-092315**					
Dichlorodifluoromethane		0.57		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		2.8		2.5	ug/m3	TO-15
Freon 22		0.55		0.50	ppb v/v	TO-15
Freon 22		1.9		1.8	ug/m3	TO-15
Chloromethane		0.50		0.50	ppb v/v	TO-15
Chloromethane		1.0		1.0	ug/m3	TO-15
n-Butane		3.9		0.50	ppb v/v	TO-15
n-Butane		9.3		1.2	ug/m3	TO-15
Chloroethane		0.089	J	0.50	ppb v/v	TO-15
Chloroethane		0.23	J	1.3	ug/m3	TO-15
Trichlorofluoromethane		45	D	0.40	ppb v/v	TO-15
Trichlorofluoromethane		250	D	2.2	ug/m3	TO-15
1,1-Dichloroethene		0.53		0.20	ppb v/v	TO-15
1,1-Dichloroethene		2.1		0.79	ug/m3	TO-15
Acetone		6.6		5.0	ppb v/v	TO-15
Acetone		16		12	ug/m3	TO-15
Isopropyl alcohol		3.7	J	5.0	ppb v/v	TO-15
Isopropyl alcohol		9.1	J	12	ug/m3	TO-15
Carbon disulfide		0.18	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.58	J	1.6	ug/m3	TO-15
Methylene Chloride		0.23	J	0.50	ppb v/v	TO-15
Methylene Chloride		0.81	J	1.7	ug/m3	TO-15
n-Hexane		0.45		0.20	ppb v/v	TO-15
n-Hexane		1.6		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.15	J	0.20	ppb v/v	TO-15
1,1-Dichloroethane		0.62	J	0.81	ug/m3	TO-15
Methyl Ethyl Ketone		0.79		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.3		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		0.40		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		2.2		1.1	ug/m3	TO-15
Cyclohexane		0.14	J	0.20	ppb v/v	TO-15
Cyclohexane		0.48	J	0.69	ug/m3	TO-15
Carbon tetrachloride		0.085		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.53		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.21		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.97		0.93	ug/m3	TO-15
Benzene		0.43		0.20	ppb v/v	TO-15
Benzene		1.4		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.53		0.20	ppb v/v	TO-15
1,2-Dichloroethane		2.2		0.81	ug/m3	TO-15
n-Heptane		0.14	J	0.20	ppb v/v	TO-15
n-Heptane		0.59	J	0.82	ug/m3	TO-15
Toluene		1.0		0.20	ppb v/v	TO-15
Toluene		3.8		0.75	ug/m3	TO-15
Tetrachloroethene		0.051	J	0.20	ppb v/v	TO-15
Tetrachloroethene		0.35	J	1.4	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Methyl Butyl Ketone (2-Hexanone)		0.12	J	0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)		0.50	J	2.0	ug/m3	TO-15
Ethylbenzene		0.14	J	0.20	ppb v/v	TO-15
Ethylbenzene		0.63	J	0.87	ug/m3	TO-15
m,p-Xylene		0.49	J	0.50	ppb v/v	TO-15
m,p-Xylene		2.1	J	2.2	ug/m3	TO-15
Xylene, o-		0.18	J	0.20	ppb v/v	TO-15
Xylene, o-		0.79	J	0.87	ug/m3	TO-15
Xylene (total)		0.67	J	0.70	ppb v/v	TO-15
Xylene (total)		2.9	J	3.0	ug/m3	TO-15
Styrene		0.13	J	0.20	ppb v/v	TO-15
Styrene		0.54	J	0.85	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.050	J	0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene		0.25	J	0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.16	J	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		0.77	J	0.98	ug/m3	TO-15
4-Isopropyltoluene		0.063	J	0.20	ppb v/v	TO-15
4-Isopropyltoluene		0.35	J	1.1	ug/m3	TO-15
1,4-Dichlorobenzene		0.060	J	0.20	ppb v/v	TO-15
1,4-Dichlorobenzene		0.36	J	1.2	ug/m3	TO-15
Naphthalene		0.12	J	0.50	ppb v/v	TO-15
Naphthalene		0.66	J	2.6	ug/m3	TO-15
200-29972-15	**FR-SS08-092315**					
n-Butane		20		20	ppb v/v	TO-15
n-Butane		48		47	ug/m3	TO-15
Chloroethane		280		20	ppb v/v	TO-15
Chloroethane		730		52	ug/m3	TO-15
Trichlorofluoromethane		63		7.9	ppb v/v	TO-15
Trichlorofluoromethane		350		44	ug/m3	TO-15
1,1-Dichloroethene		4400	D	36	ppb v/v	TO-15
1,1-Dichloroethene		17000	D	140	ug/m3	TO-15
1,1-Dichloroethane		2000	D	36	ppb v/v	TO-15
1,1-Dichloroethane		8200	D	150	ug/m3	TO-15
1,1,1-Trichloroethane		3600	D	36	ppb v/v	TO-15
1,1,1-Trichloroethane		20000	D	200	ug/m3	TO-15
Trichloroethene		13		1.6	ppb v/v	TO-15
Trichloroethene		68		8.5	ug/m3	TO-15
Tetrachloroethene		6.2	J	7.9	ppb v/v	TO-15
Tetrachloroethene		42	J	54	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-16	**FR-IA08-092315**					
Dichlorodifluoromethane		0.64		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.2		2.5	ug/m3	TO-15
Freon 22		0.59		0.50	ppb v/v	TO-15
Freon 22		2.1		1.8	ug/m3	TO-15
Chloromethane		0.56		0.50	ppb v/v	TO-15
Chloromethane		1.2		1.0	ug/m3	TO-15
n-Butane		5.2		0.50	ppb v/v	TO-15
n-Butane		12		1.2	ug/m3	TO-15
Trichlorofluoromethane		72	D	0.60	ppb v/v	TO-15
Trichlorofluoromethane		400	D	3.4	ug/m3	TO-15
1,1-Dichloroethene		0.68		0.20	ppb v/v	TO-15
1,1-Dichloroethene		2.7		0.79	ug/m3	TO-15
Acetone		12		5.0	ppb v/v	TO-15
Acetone		29		12	ug/m3	TO-15
Isopropyl alcohol		7.2		5.0	ppb v/v	TO-15
Isopropyl alcohol		18		12	ug/m3	TO-15
Carbon disulfide		0.28	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.89	J	1.6	ug/m3	TO-15
Methylene Chloride		0.33	J	0.50	ppb v/v	TO-15
Methylene Chloride		1.2	J	1.7	ug/m3	TO-15
n-Hexane		0.69		0.20	ppb v/v	TO-15
n-Hexane		2.4		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.23		0.20	ppb v/v	TO-15
1,1-Dichloroethane		0.91		0.81	ug/m3	TO-15
Methyl Ethyl Ketone		1.9		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		5.7		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		0.49		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		2.6		1.1	ug/m3	TO-15
Cyclohexane		0.19	J	0.20	ppb v/v	TO-15
Cyclohexane		0.66	J	0.69	ug/m3	TO-15
Carbon tetrachloride		0.093		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.59		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.32		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		1.5		0.93	ug/m3	TO-15
Benzene		0.56		0.20	ppb v/v	TO-15
Benzene		1.8		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.53		0.20	ppb v/v	TO-15
1,2-Dichloroethane		2.1		0.81	ug/m3	TO-15
n-Heptane		0.20		0.20	ppb v/v	TO-15
n-Heptane		0.81		0.82	ug/m3	TO-15
Trichloroethene		0.042		0.040	ppb v/v	TO-15
Trichloroethene		0.22		0.21	ug/m3	TO-15
methyl isobutyl ketone		0.13	J	0.50	ppb v/v	TO-15
methyl isobutyl ketone		0.54	J	2.0	ug/m3	TO-15
Toluene		1.5		0.20	ppb v/v	TO-15
Toluene		5.6		0.75	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Client Sample ID / Analyte	Result	Qualifier	Reporting Limit	Units	Method
Tetrachloroethene	0.054	J	0.20	ppb v/v	TO-15
Tetrachloroethene	0.37	J	1.4	ug/m3	TO-15
Methyl Butyl Ketone (2-Hexanone)	0.20	J	0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)	0.84	J	2.0	ug/m3	TO-15
Ethylbenzene	0.20		0.20	ppb v/v	TO-15
Ethylbenzene	0.85		0.87	ug/m3	TO-15
m,p-Xylene	0.72		0.50	ppb v/v	TO-15
m,p-Xylene	3.1		2.2	ug/m3	TO-15
Xylene, o-	0.29		0.20	ppb v/v	TO-15
Xylene, o-	1.2		0.87	ug/m3	TO-15
Xylene (total)	1.0		0.70	ppb v/v	TO-15
Xylene (total)	4.4		3.0	ug/m3	TO-15
Styrene	0.14	J	0.20	ppb v/v	TO-15
Styrene	0.60	J	0.85	ug/m3	TO-15
Cumene	0.039	J	0.20	ppb v/v	TO-15
Cumene	0.19	J	0.98	ug/m3	TO-15
n-Propylbenzene	0.045	J	0.20	ppb v/v	TO-15
n-Propylbenzene	0.22	J	0.98	ug/m3	TO-15
4-Ethyltoluene	0.067	J	0.20	ppb v/v	TO-15
4-Ethyltoluene	0.33	J	0.98	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.071	J	0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.35	J	0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.23		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene	1.1		0.98	ug/m3	TO-15
4-Isopropyltoluene	0.085	J	0.20	ppb v/v	TO-15
4-Isopropyltoluene	0.47	J	1.1	ug/m3	TO-15
1,4-Dichlorobenzene	0.074	J	0.20	ppb v/v	TO-15
1,4-Dichlorobenzene	0.44	J	1.2	ug/m3	TO-15
Naphthalene	0.24	J	0.50	ppb v/v	TO-15
Naphthalene	1.2	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-17	**FR-SS09-092315**					
Dichlorodifluoromethane		0.82	J	1.0	ppb v/v	TO-15
Dichlorodifluoromethane		4.0	J	4.9	ug/m3	TO-15
Freon 22		0.36	J	1.0	ppb v/v	TO-15
Freon 22		1.3	J	3.5	ug/m3	TO-15
n-Butane		0.99	J	1.0	ppb v/v	TO-15
n-Butane		2.3	J	2.4	ug/m3	TO-15
Trichlorofluoromethane		46		0.40	ppb v/v	TO-15
Trichlorofluoromethane		260		2.2	ug/m3	TO-15
1,1-Dichloroethene		0.28	J	0.40	ppb v/v	TO-15
1,1-Dichloroethene		1.1	J	1.6	ug/m3	TO-15
Acetone		6.0	J	10	ppb v/v	TO-15
Acetone		14	J	24	ug/m3	TO-15
Carbon disulfide		4.5		1.0	ppb v/v	TO-15
Carbon disulfide		14		3.1	ug/m3	TO-15
Methylene Chloride		0.42	J	1.0	ppb v/v	TO-15
Methylene Chloride		1.5	J	3.5	ug/m3	TO-15
n-Hexane		0.81		0.40	ppb v/v	TO-15
n-Hexane		2.8		1.4	ug/m3	TO-15
1,1-Dichloroethane		1.6		0.40	ppb v/v	TO-15
1,1-Dichloroethane		6.5		1.6	ug/m3	TO-15
Methyl Ethyl Ketone		0.79	J	1.0	ppb v/v	TO-15
Methyl Ethyl Ketone		2.3	J	2.9	ug/m3	TO-15
1,1,1-Trichloroethane		51		0.40	ppb v/v	TO-15
1,1,1-Trichloroethane		280		2.2	ug/m3	TO-15
Cyclohexane		1.2		0.40	ppb v/v	TO-15
Cyclohexane		4.2		1.4	ug/m3	TO-15
2,2,4-Trimethylpentane		0.18	J	0.40	ppb v/v	TO-15
2,2,4-Trimethylpentane		0.83	J	1.9	ug/m3	TO-15
Benzene		0.33	J	0.40	ppb v/v	TO-15
Benzene		1.1	J	1.3	ug/m3	TO-15
n-Heptane		0.36	J	0.40	ppb v/v	TO-15
n-Heptane		1.5	J	1.6	ug/m3	TO-15
Trichloroethene		10		0.080	ppb v/v	TO-15
Trichloroethene		55		0.43	ug/m3	TO-15
methyl isobutyl ketone		0.38	J	1.0	ppb v/v	TO-15
methyl isobutyl ketone		1.6	J	4.1	ug/m3	TO-15
Toluene		0.82		0.40	ppb v/v	TO-15
Toluene		3.1		1.5	ug/m3	TO-15
Tetrachloroethene		0.37	J	0.40	ppb v/v	TO-15
Tetrachloroethene		2.5	J	2.7	ug/m3	TO-15
Ethylbenzene		0.11	J	0.40	ppb v/v	TO-15
Ethylbenzene		0.47	J	1.7	ug/m3	TO-15
m,p-Xylene		0.60	J	1.0	ppb v/v	TO-15
m,p-Xylene		2.6	J	4.3	ug/m3	TO-15
Xylene, o-		0.16	J	0.40	ppb v/v	TO-15
Xylene, o-		0.70	J	1.7	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Xylene (total)		0.76	J	1.4	ppb v/v	TO-15
Xylene (total)		3.3	J	6.1	ug/m3	TO-15
Cumene		0.098	J	0.40	ppb v/v	TO-15
Cumene		0.48	J	2.0	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-18	**FR-IA09-092315**					
Dichlorodifluoromethane		1.1		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		5.2		2.5	ug/m3	TO-15
Freon 22		1.0		0.50	ppb v/v	TO-15
Freon 22		3.5		1.8	ug/m3	TO-15
Chloromethane		0.95		0.50	ppb v/v	TO-15
Chloromethane		2.0		1.0	ug/m3	TO-15
n-Butane		9.1		0.50	ppb v/v	TO-15
n-Butane		22		1.2	ug/m3	TO-15
Trichlorofluoromethane		63	D	0.80	ppb v/v	TO-15
Trichlorofluoromethane		360	D	4.5	ug/m3	TO-15
1,1-Dichloroethene		1.1		0.20	ppb v/v	TO-15
1,1-Dichloroethene		4.6		0.79	ug/m3	TO-15
Acetone		21		5.0	ppb v/v	TO-15
Acetone		49		12	ug/m3	TO-15
Isopropyl alcohol		12		5.0	ppb v/v	TO-15
Isopropyl alcohol		30		12	ug/m3	TO-15
Carbon disulfide		0.47	J	0.50	ppb v/v	TO-15
Carbon disulfide		1.5	J	1.6	ug/m3	TO-15
Methylene Chloride		0.53		0.50	ppb v/v	TO-15
Methylene Chloride		1.8		1.7	ug/m3	TO-15
n-Hexane		1.1		0.20	ppb v/v	TO-15
n-Hexane		3.8		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.37		0.20	ppb v/v	TO-15
1,1-Dichloroethane		1.5		0.81	ug/m3	TO-15
Methyl Ethyl Ketone		2.6		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		7.6		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		1.1		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		5.8		1.1	ug/m3	TO-15
Cyclohexane		0.27		0.20	ppb v/v	TO-15
Cyclohexane		0.92		0.69	ug/m3	TO-15
Carbon tetrachloride		0.12		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.73		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.46		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		2.2		0.93	ug/m3	TO-15
Benzene		0.85		0.20	ppb v/v	TO-15
Benzene		2.7		0.64	ug/m3	TO-15
1,2-Dichloroethane		0.97		0.20	ppb v/v	TO-15
1,2-Dichloroethane		3.9		0.81	ug/m3	TO-15
n-Heptane		0.35		0.20	ppb v/v	TO-15
n-Heptane		1.4		0.82	ug/m3	TO-15
Trichloroethene		0.046		0.040	ppb v/v	TO-15
Trichloroethene		0.25		0.21	ug/m3	TO-15
methyl isobutyl ketone		0.16	J	0.50	ppb v/v	TO-15
methyl isobutyl ketone		0.67	J	2.0	ug/m3	TO-15
Toluene		1.8		0.20	ppb v/v	TO-15
Toluene		6.6		0.75	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Client Sample ID / Analyte	Result	Qualifier	Reporting Limit	Units	Method
Tetrachloroethene	0.077	J	0.20	ppb v/v	TO-15
Tetrachloroethene	0.52	J	1.4	ug/m3	TO-15
Methyl Butyl Ketone (2-Hexanone)	0.14	J	0.50	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)	0.56	J	2.0	ug/m3	TO-15
Ethylbenzene	0.23		0.20	ppb v/v	TO-15
Ethylbenzene	0.99		0.87	ug/m3	TO-15
m,p-Xylene	0.82		0.50	ppb v/v	TO-15
m,p-Xylene	3.6		2.2	ug/m3	TO-15
Xylene, o-	0.29		0.20	ppb v/v	TO-15
Xylene, o-	1.3		0.87	ug/m3	TO-15
Xylene (total)	1.1		0.70	ppb v/v	TO-15
Xylene (total)	4.8		3.0	ug/m3	TO-15
Styrene	0.18	J	0.20	ppb v/v	TO-15
Styrene	0.77	J	0.85	ug/m3	TO-15
Cumene	0.040	J	0.20	ppb v/v	TO-15
Cumene	0.20	J	0.98	ug/m3	TO-15
n-Propylbenzene	0.047	J	0.20	ppb v/v	TO-15
n-Propylbenzene	0.23	J	0.98	ug/m3	TO-15
4-Ethyltoluene	0.083	J	0.20	ppb v/v	TO-15
4-Ethyltoluene	0.41	J	0.98	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.11	J	0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.55	J	0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.36		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene	1.8		0.98	ug/m3	TO-15
4-Isopropyltoluene	0.13	J	0.20	ppb v/v	TO-15
4-Isopropyltoluene	0.74	J	1.1	ug/m3	TO-15
1,4-Dichlorobenzene	0.073	J	0.20	ppb v/v	TO-15
1,4-Dichlorobenzene	0.44	J	1.2	ug/m3	TO-15
Naphthalene	0.13	J	0.50	ppb v/v	TO-15
Naphthalene	0.68	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-19	**FR-SSDUP-092315**					
Dichlorodifluoromethane		0.86	J	1.5	ppb v/v	TO-15
Dichlorodifluoromethane		4.2	J	7.4	ug/m3	TO-15
Freon 22		0.37	J	1.5	ppb v/v	TO-15
Freon 22		1.3	J	5.3	ug/m3	TO-15
n-Butane		1.2	J	1.5	ppb v/v	TO-15
n-Butane		2.9	J	3.6	ug/m3	TO-15
Trichlorofluoromethane		48		0.60	ppb v/v	TO-15
Trichlorofluoromethane		270		3.4	ug/m3	TO-15
Freon TF		0.39	J	0.60	ppb v/v	TO-15
Freon TF		3.0	J	4.6	ug/m3	TO-15
1,1-Dichloroethene		0.19	J	0.60	ppb v/v	TO-15
1,1-Dichloroethene		0.75	J	2.4	ug/m3	TO-15
Acetone		4.0	J	15	ppb v/v	TO-15
Acetone		9.4	J	36	ug/m3	TO-15
Carbon disulfide		0.29	J	1.5	ppb v/v	TO-15
Carbon disulfide		0.89	J	4.7	ug/m3	TO-15
n-Hexane		0.83		0.60	ppb v/v	TO-15
n-Hexane		2.9		2.1	ug/m3	TO-15
1,1-Dichloroethane		1.6		0.60	ppb v/v	TO-15
1,1-Dichloroethane		6.5		2.4	ug/m3	TO-15
1,1,1-Trichloroethane		53		0.60	ppb v/v	TO-15
1,1,1-Trichloroethane		290		3.3	ug/m3	TO-15
Cyclohexane		1.3		0.60	ppb v/v	TO-15
Cyclohexane		4.4		2.1	ug/m3	TO-15
Benzene		0.33	J	0.60	ppb v/v	TO-15
Benzene		1.0	J	1.9	ug/m3	TO-15
n-Heptane		0.43	J	0.60	ppb v/v	TO-15
n-Heptane		1.8	J	2.5	ug/m3	TO-15
Trichloroethene		11		0.12	ppb v/v	TO-15
Trichloroethene		57		0.64	ug/m3	TO-15
methyl isobutyl ketone		0.18	J	1.5	ppb v/v	TO-15
methyl isobutyl ketone		0.76	J	6.1	ug/m3	TO-15
Toluene		0.78		0.60	ppb v/v	TO-15
Toluene		3.0		2.3	ug/m3	TO-15
Tetrachloroethene		0.39	J	0.60	ppb v/v	TO-15
Tetrachloroethene		2.7	J	4.1	ug/m3	TO-15
Ethylbenzene		0.10	J	0.60	ppb v/v	TO-15
Ethylbenzene		0.44	J	2.6	ug/m3	TO-15
m,p-Xylene		0.58	J	1.5	ppb v/v	TO-15
m,p-Xylene		2.5	J	6.5	ug/m3	TO-15
Xylene, o-		0.15	J	0.60	ppb v/v	TO-15
Xylene, o-		0.66	J	2.6	ug/m3	TO-15
Xylene (total)		0.73	J	2.1	ppb v/v	TO-15
Xylene (total)		3.2	J	9.1	ug/m3	TO-15
Cumene		0.098	J	0.60	ppb v/v	TO-15
Cumene		0.48	J	2.9	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-20	**FR-SS10-092315**					
Dichlorodifluoromethane		1.2		1.0	ppb v/v	TO-15
Dichlorodifluoromethane		6.1		4.9	ug/m3	TO-15
Freon 22		0.34	J	1.0	ppb v/v	TO-15
Freon 22		1.2	J	3.5	ug/m3	TO-15
Chloromethane		0.19	J	1.0	ppb v/v	TO-15
Chloromethane		0.40	J	2.1	ug/m3	TO-15
n-Butane		1.2		1.0	ppb v/v	TO-15
n-Butane		2.8		2.4	ug/m3	TO-15
Trichlorofluoromethane		50		0.40	ppb v/v	TO-15
Trichlorofluoromethane		280		2.2	ug/m3	TO-15
Acetone		8.9	J	10	ppb v/v	TO-15
Acetone		21	J	24	ug/m3	TO-15
Carbon disulfide		0.62	J	1.0	ppb v/v	TO-15
Carbon disulfide		1.9	J	3.1	ug/m3	TO-15
Methylene Chloride		0.45	J	1.0	ppb v/v	TO-15
Methylene Chloride		1.6	J	3.5	ug/m3	TO-15
n-Hexane		0.66		0.40	ppb v/v	TO-15
n-Hexane		2.3		1.4	ug/m3	TO-15
Methyl Ethyl Ketone		1.1		1.0	ppb v/v	TO-15
Methyl Ethyl Ketone		3.3		2.9	ug/m3	TO-15
1,1,1-Trichloroethane		6.3		0.40	ppb v/v	TO-15
1,1,1-Trichloroethane		34		2.2	ug/m3	TO-15
Cyclohexane		0.22	J	0.40	ppb v/v	TO-15
Cyclohexane		0.77	J	1.4	ug/m3	TO-15
Benzene		0.38	J	0.40	ppb v/v	TO-15
Benzene		1.2	J	1.3	ug/m3	TO-15
n-Heptane		0.31	J	0.40	ppb v/v	TO-15
n-Heptane		1.3	J	1.6	ug/m3	TO-15
Trichloroethene		0.75		0.080	ppb v/v	TO-15
Trichloroethene		4.1		0.43	ug/m3	TO-15
methyl isobutyl ketone		0.33	J	1.0	ppb v/v	TO-15
methyl isobutyl ketone		1.3	J	4.1	ug/m3	TO-15
Toluene		0.95		0.40	ppb v/v	TO-15
Toluene		3.6		1.5	ug/m3	TO-15
Tetrachloroethene		0.23	J	0.40	ppb v/v	TO-15
Tetrachloroethene		1.6	J	2.7	ug/m3	TO-15
Ethylbenzene		0.084	J	0.40	ppb v/v	TO-15
Ethylbenzene		0.37	J	1.7	ug/m3	TO-15
m,p-Xylene		0.34	J	1.0	ppb v/v	TO-15
m,p-Xylene		1.5	J	4.3	ug/m3	TO-15
Xylene, o-		0.13	J	0.40	ppb v/v	TO-15
Xylene, o-		0.55	J	1.7	ug/m3	TO-15
Xylene (total)		0.47	J	1.4	ppb v/v	TO-15
Xylene (total)		2.0	J	6.1	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-21	**FR-IA10-092315**					
Dichlorodifluoromethane		0.73		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.6		2.5	ug/m3	TO-15
Freon 22		0.95		0.50	ppb v/v	TO-15
Freon 22		3.4		1.8	ug/m3	TO-15
Chloromethane		0.70		0.50	ppb v/v	TO-15
Chloromethane		1.4		1.0	ug/m3	TO-15
n-Butane		7.5		0.50	ppb v/v	TO-15
n-Butane		18		1.2	ug/m3	TO-15
Chloroethane		0.12	J	0.50	ppb v/v	TO-15
Chloroethane		0.33	J	1.3	ug/m3	TO-15
Trichlorofluoromethane		57	D	0.50	ppb v/v	TO-15
Trichlorofluoromethane		320	D	2.8	ug/m3	TO-15
1,1-Dichloroethene		0.83		0.20	ppb v/v	TO-15
1,1-Dichloroethene		3.3		0.79	ug/m3	TO-15
Acetone		9.1		5.0	ppb v/v	TO-15
Acetone		22		12	ug/m3	TO-15
Isopropyl alcohol		6.4		5.0	ppb v/v	TO-15
Isopropyl alcohol		16		12	ug/m3	TO-15
Carbon disulfide		0.13	J	0.50	ppb v/v	TO-15
Carbon disulfide		0.41	J	1.6	ug/m3	TO-15
Methylene Chloride		0.32	J	0.50	ppb v/v	TO-15
Methylene Chloride		1.1	J	1.7	ug/m3	TO-15
n-Hexane		0.74		0.20	ppb v/v	TO-15
n-Hexane		2.6		0.70	ug/m3	TO-15
1,1-Dichloroethane		0.25		0.20	ppb v/v	TO-15
1,1-Dichloroethane		0.99		0.81	ug/m3	TO-15
Methyl Ethyl Ketone		0.81		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.4		1.5	ug/m3	TO-15
1,1,1-Trichloroethane		0.61		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane		3.3		1.1	ug/m3	TO-15
Cyclohexane		0.21		0.20	ppb v/v	TO-15
Cyclohexane		0.71		0.69	ug/m3	TO-15
Carbon tetrachloride		0.092		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.58		0.25	ug/m3	TO-15
2,2,4-Trimethylpentane		0.32		0.20	ppb v/v	TO-15
2,2,4-Trimethylpentane		1.5		0.93	ug/m3	TO-15
Benzene		0.74		0.20	ppb v/v	TO-15
Benzene		2.4		0.64	ug/m3	TO-15
1,2-Dichloroethane		1.1		0.20	ppb v/v	TO-15
1,2-Dichloroethane		4.6		0.81	ug/m3	TO-15
n-Heptane		0.31		0.20	ppb v/v	TO-15
n-Heptane		1.3		0.82	ug/m3	TO-15
Trichloroethene		0.041		0.040	ppb v/v	TO-15
Trichloroethene		0.22		0.21	ug/m3	TO-15
Toluene		1.6		0.20	ppb v/v	TO-15
Toluene		6.1		0.75	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Tetrachloroethene		0.075	J	0.20	ppb v/v	TO-15
Tetrachloroethene		0.51	J	1.4	ug/m3	TO-15
Ethylbenzene		0.20		0.20	ppb v/v	TO-15
Ethylbenzene		0.85		0.87	ug/m3	TO-15
m,p-Xylene		0.67		0.50	ppb v/v	TO-15
m,p-Xylene		2.9		2.2	ug/m3	TO-15
Xylene, o-		0.22		0.20	ppb v/v	TO-15
Xylene, o-		0.95		0.87	ug/m3	TO-15
Xylene (total)		0.89		0.70	ppb v/v	TO-15
Xylene (total)		3.9		3.0	ug/m3	TO-15
Styrene		0.22		0.20	ppb v/v	TO-15
Styrene		0.94		0.85	ug/m3	TO-15
Cumene		0.030	J	0.20	ppb v/v	TO-15
Cumene		0.15	J	0.98	ug/m3	TO-15
4-Ethyltoluene		0.044	J	0.20	ppb v/v	TO-15
4-Ethyltoluene		0.21	J	0.98	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.053	J	0.20	ppb v/v	TO-15
1,3,5-Trimethylbenzene		0.26	J	0.98	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.22		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.1		0.98	ug/m3	TO-15
4-Isopropyltoluene		0.10	J	0.20	ppb v/v	TO-15
4-Isopropyltoluene		0.55	J	1.1	ug/m3	TO-15
1,4-Dichlorobenzene		0.072	J	0.20	ppb v/v	TO-15
1,4-Dichlorobenzene		0.43	J	1.2	ug/m3	TO-15
Naphthalene		0.11	J	0.50	ppb v/v	TO-15
Naphthalene		0.58	J	2.6	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-29972-22	**FR-AA-092315**					
Dichlorodifluoromethane		0.58		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		2.9		2.5	ug/m3	TO-15
Freon 22		0.31	J	0.50	ppb v/v	TO-15
Freon 22		1.1	J	1.8	ug/m3	TO-15
Chloromethane		0.58		0.50	ppb v/v	TO-15
Chloromethane		1.2		1.0	ug/m3	TO-15
n-Butane		0.39	J	0.50	ppb v/v	TO-15
n-Butane		0.92	J	1.2	ug/m3	TO-15
Trichlorofluoromethane		0.26		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.5		1.1	ug/m3	TO-15
Freon TF		0.086	J	0.20	ppb v/v	TO-15
Freon TF		0.66	J	1.5	ug/m3	TO-15
Acetone		3.8	J	5.0	ppb v/v	TO-15
Acetone		8.9	J	12	ug/m3	TO-15
n-Hexane		0.089	J	0.20	ppb v/v	TO-15
n-Hexane		0.31	J	0.70	ug/m3	TO-15
Methyl Ethyl Ketone		0.36	J	0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		1.1	J	1.5	ug/m3	TO-15
Carbon tetrachloride		0.079		0.040	ppb v/v	TO-15
Carbon tetrachloride		0.50		0.25	ug/m3	TO-15
Benzene		0.087	J	0.20	ppb v/v	TO-15
Benzene		0.28	J	0.64	ug/m3	TO-15
Toluene		0.13	J	0.20	ppb v/v	TO-15
Toluene		0.48	J	0.75	ug/m3	TO-15

METHOD SUMMARY

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Method	Analyst	Analyst ID
EPA TO-15	Daigle, Paul A	PAD
EPA TO-15	Desjardins, William R	WRD

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.48	J	0.080	0.50
Freon 22	0.12	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.13	J	0.093	0.50
n-Butane	5.4		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.27		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	17		0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.76		0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.35	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	1.5		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.72		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	5.3		0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	3.1		0.046	0.20
Cyclohexane	0.51		0.039	0.20
Carbon tetrachloride	0.040	U	0.032	0.040
2,2,4-Trimethylpentane	0.043	J	0.039	0.20
Benzene	1.1		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.93		0.040	0.20
Trichloroethene	2.0		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.15	J	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	3.3		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	2.2		0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.070	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.088	J	0.033	0.20
m,p-Xylene	0.46	J	0.071	0.50
Xylene, o-	0.13	J	0.037	0.20
Xylene (total)	0.59	J	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.065	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.15	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.4	J	0.40	2.5
Freon 22	0.44	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	0.26	J	0.19	1.0
n-Butane	13		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.5		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	41		2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	2.4		0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.2	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	5.3		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	2.1		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	26		0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	17		0.25	1.1
Cyclohexane	1.8		0.13	0.69
Carbon tetrachloride	0.25	U	0.20	0.25
2,2,4-Trimethylpentane	0.20	J	0.18	0.93
Benzene	3.5		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	3.8		0.16	0.82
Trichloroethene	11		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.0	J	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	12		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	15		0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.29	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.38	J	0.14	0.87
m,p-Xylene	2.0	J	0.31	2.2
Xylene, o-	0.56	J	0.16	0.87
Xylene (total)	2.6	J	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS01-092315

Lab Sample ID: 200-29972-1 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_18.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 2238			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2238			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.32	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.81	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60		0.080	0.50
Freon 22	0.36	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.60		0.093	0.50
n-Butane	70	E	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.33		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	9.0		0.86	5.0
Isopropyl alcohol	1.9	J	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	34		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	1.6		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	5.5		0.039	0.20
Carbon tetrachloride	0.093		0.032	0.040
2,2,4-Trimethylpentane	11		0.039	0.20
Benzene	12		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	8.5		0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.96		0.050	0.50
Toluene	50	E	0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.082	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	7.3		0.033	0.20
m,p-Xylene	25		0.071	0.50
Xylene, o-	7.9		0.037	0.20
Xylene (total)	33		0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.47		0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.53		0.043	0.20
4-Ethyltoluene	0.81		0.044	0.20
1,3,5-Trimethylbenzene	0.51		0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	1.3		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.0		0.40	2.5
Freon 22	1.3	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	170	E	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.8		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	21		2.0	12
Isopropyl alcohol	4.6	J	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	120		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	4.7		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	19		0.13	0.69
Carbon tetrachloride	0.59		0.20	0.25
2,2,4-Trimethylpentane	50		0.18	0.93
Benzene	39		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	35		0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	3.9		0.20	2.0
Toluene	190	E	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.56	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	32		0.14	0.87
m,p-Xylene	110		0.31	2.2
Xylene, o-	34		0.16	0.87
Xylene (total)	140		0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	2.3		0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	2.6		0.21	0.98
4-Ethyltoluene	4.0		0.22	0.98
1,3,5-Trimethylbenzene	2.5		0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1437			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1437			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	6.6		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.69	J D	0.24	1.5
Freon 22	0.43	J D	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	0.74	J D	0.28	1.5
n-Butane	94	D	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.25	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	0.36	J D	0.11	0.60
Freon TF	0.60	U	0.22	0.60
1,1-Dichloroethene	0.60	U	0.11	0.60
Acetone	10	J D	2.6	15
Isopropyl alcohol	15	U	2.9	15
Carbon disulfide	1.5	U	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.5	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	37	D	0.16	0.60
1,1-Dichloroethane	0.60	U	0.075	0.60
Methyl Ethyl Ketone	1.4	J D	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.10	0.60
1,2-Dichloroethene, Total	1.2	U	0.10	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	0.60	U	0.14	0.60
Cyclohexane	5.3	D	0.12	0.60
Carbon tetrachloride	0.12	U	0.096	0.12
2,2,4-Trimethylpentane	11	D	0.12	0.60
Benzene	13	D	0.13	0.60
1,2-Dichloroethane	0.60	U	0.12	0.60
n-Heptane	8.6	D	0.12	0.60
Trichloroethene	0.12	U	0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	0.80	J D	0.15	1.5
Toluene	58	D	0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.60	U	0.069	0.60

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	7.1	D	0.099	0.60
m,p-Xylene	26	D	0.21	1.5
Xylene, o-	7.2	D	0.11	0.60
Xylene (total)	33	D	0.11	2.1
Styrene	0.60	U	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.37	J D	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.44	J D	0.13	0.60
4-Ethyltoluene	0.69	D	0.13	0.60
1,3,5-Trimethylbenzene	0.41	J D	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.90	D	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.16	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.16	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	1.5	U	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.4	J D	1.2	7.4
Freon 22	1.5	J D	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.79	4.2
Chloromethane	1.5	J D	0.57	3.1
n-Butane	220	D	0.55	3.6
Vinyl chloride	0.31	U	0.24	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	3.9	U	0.67	3.9
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	2.0	J D	0.64	3.4
Freon TF	4.6	U	1.7	4.6
1,1-Dichloroethene	2.4	U	0.43	2.4
Acetone	25	J D	6.1	36
Isopropyl alcohol	37	U	7.2	37
Carbon disulfide	4.7	U	0.40	4.7

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	130	D	0.57	2.1
1,1-Dichloroethane	2.4	U	0.30	2.4
Methyl Ethyl Ketone	4.2	J D	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.41	2.4
1,2-Dichloroethene, Total	4.7	U	0.41	4.7
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	3.3	U	0.75	3.3
Cyclohexane	18	D	0.40	2.1
Carbon tetrachloride	0.75	U	0.60	0.75
2,2,4-Trimethylpentane	51	D	0.54	2.8
Benzene	41	D	0.40	1.9
1,2-Dichloroethane	2.4	U	0.50	2.4
n-Heptane	35	D	0.49	2.5
Trichloroethene	0.64	U	0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.0	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	3.3	J D	0.61	6.1
Toluene	220	D	1.0	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	4.1	U	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.67	2.8
Ethylbenzene	31	D	0.43	2.6
m,p-Xylene	110	D	0.92	6.5
Xylene, o-	31	D	0.48	2.6
Xylene (total)	140	D	0.48	9.1
Styrene	2.5	U	0.55	2.5
Bromoform	6.2	U	1.7	6.2
Cumene	1.8	J D	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.90	4.1
n-Propylbenzene	2.2	J D	0.63	2.9
4-Ethyltoluene	3.4	D	0.65	2.9
1,3,5-Trimethylbenzene	2.0	J D	0.57	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA01-092315

Lab Sample ID: 200-29972-2 Date Sampled: 09/23/2015 1719
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_024.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0530	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0530			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	4.4	D	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	7.8	U	0.89	7.8

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS02-092315**

Lab Sample ID: 200-29972-3 | Date Sampled: 09/23/2015 1717
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.44	J	0.32	2.0
Freon 22	2.0	U	0.23	2.0
1,2-Dichlorotetrafluoroethane	0.80	U	0.15	0.80
Chloromethane	2.0	U	0.37	2.0
n-Butane	4.7		0.31	2.0
Vinyl chloride	0.16	U	0.13	0.16
1,3-Butadiene	0.80	U	0.36	0.80
Bromomethane	0.80	U	0.22	0.80
Chloroethane	2.0	U	0.34	2.0
Bromoethene(Vinyl Bromide)	0.80	U	0.18	0.80
Trichlorofluoromethane	1.0		0.15	0.80
Freon TF	0.80	U	0.30	0.80
1,1-Dichloroethene	0.80	U	0.14	0.80
Acetone	7.1	J	3.4	20
Isopropyl alcohol	20	U	3.9	20
Carbon disulfide	1.6	J	0.17	2.0
3-Chloropropene	2.0	U	0.27	2.0
Methylene Chloride	2.0	U	0.72	2.0
tert-Butyl alcohol	20	U	3.4	20
Methyl tert-butyl ether	0.80	U	0.36	0.80
trans-1,2-Dichloroethene	0.80	U	0.17	0.80
n-Hexane	0.89		0.22	0.80
1,1-Dichloroethane	0.80	U	0.10	0.80
Methyl Ethyl Ketone	0.60	J	0.21	2.0
cis-1,2-Dichloroethene	0.80	U	0.14	0.80
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	3.5		0.33	0.80
Tetrahydrofuran	20	U	5.6	20
1,1,1-Trichloroethane	0.75	J	0.18	0.80
Cyclohexane	0.37	J	0.16	0.80
Carbon tetrachloride	0.16	U	0.13	0.16
2,2,4-Trimethylpentane	0.80	U	0.16	0.80
Benzene	0.84		0.17	0.80
1,2-Dichloroethane	0.80	U	0.16	0.80
n-Heptane	0.68	J	0.16	0.80
Trichloroethene	63		0.16	0.16
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.80	U	0.11	0.80
1,4-Dioxane	20	U	2.2	20
Bromodichloromethane	0.85		0.12	0.80
cis-1,3-Dichloropropene	0.80	U	0.092	0.80
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	2.8		0.37	0.80
trans-1,3-Dichloropropene	0.80	U	0.14	0.80
1,1,2-Trichloroethane	0.80	U	0.16	0.80
Tetrachloroethene	0.51	J	0.092	0.80

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: FR-SS02-092315

Lab Sample ID: 200-29972-3
Client Matrix: Air

Date Sampled: 09/23/2015 1717
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	0.80	U	0.18	0.80
1,2-Dibromoethane	0.80	U	0.16	0.80
Chlorobenzene	0.80	U	0.20	0.80
Ethylbenzene	0.32	J	0.13	0.80
m,p-Xylene	1.4	J	0.28	2.0
Xylene, o-	0.50	J	0.15	0.80
Xylene (total)	1.9	J	0.15	2.8
Styrene	0.80	U	0.17	0.80
Bromoform	0.80	U	0.22	0.80
Cumene	0.80	U	0.12	0.80
1,1,2,2-Tetrachloroethane	0.80	U	0.18	0.80
n-Propylbenzene	0.80	U	0.17	0.80
4-Ethyltoluene	0.80	U	0.18	0.80
1,3,5-Trimethylbenzene	0.25	J	0.16	0.80
2-Chlorotoluene	0.80	U	0.13	0.80
tert-Butylbenzene	0.80	U	0.18	0.80
1,2,4-Trimethylbenzene	0.65	J	0.17	0.80
sec-Butylbenzene	0.80	U	0.18	0.80
4-Isopropyltoluene	0.80	U	0.15	0.80
1,3-Dichlorobenzene	0.80	U	0.22	0.80
1,4-Dichlorobenzene	0.80	U	0.23	0.80
Benzyl chloride	0.80	U	0.21	0.80
n-Butylbenzene	0.80	U	0.19	0.80
1,2-Dichlorobenzene	0.80	U	0.22	0.80
1,2,4-Trichlorobenzene	2.0	U	0.27	2.0
Hexachlorobutadiene	0.80	U	0.33	0.80
Naphthalene	2.0	U	0.23	2.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.2	J	1.6	9.9
Freon 22	7.1	U	0.81	7.1
1,2-Dichlorotetrafluoroethane	5.6	U	1.1	5.6
Chloromethane	4.1	U	0.77	4.1
n-Butane	11		0.74	4.8
Vinyl chloride	0.41	U	0.33	0.41
1,3-Butadiene	1.8	U	0.79	1.8
Bromomethane	3.1	U	0.87	3.1
Chloroethane	5.3	U	0.90	5.3
Bromoethene(Vinyl Bromide)	3.5	U	0.77	3.5
Trichlorofluoromethane	5.7		0.85	4.5
Freon TF	6.1	U	2.3	6.1
1,1-Dichloroethene	3.2	U	0.57	3.2
Acetone	17	J	8.2	48
Isopropyl alcohol	49	U	9.6	49
Carbon disulfide	4.9	J	0.54	6.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS02-092315

Lab Sample ID: 200-29972-3 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	6.3	U	0.85	6.3
Methylene Chloride	6.9	U	2.5	6.9
tert-Butyl alcohol	61	U	10	61
Methyl tert-butyl ether	2.9	U	1.3	2.9
trans-1,2-Dichloroethene	3.2	U	0.68	3.2
n-Hexane	3.1		0.76	2.8
1,1-Dichloroethane	3.2	U	0.40	3.2
Methyl Ethyl Ketone	1.8	J	0.61	5.9
cis-1,2-Dichloroethene	3.2	U	0.56	3.2
1,2-Dichloroethene, Total	6.3	U	0.56	6.3
Chloroform	17		1.6	3.9
Tetrahydrofuran	59	U	17	59
1,1,1-Trichloroethane	4.1	J	1.0	4.4
Cyclohexane	1.3	J	0.54	2.8
Carbon tetrachloride	1.0	U	0.81	1.0
2,2,4-Trimethylpentane	3.7	U	0.73	3.7
Benzene	2.7		0.54	2.6
1,2-Dichloroethane	3.2	U	0.66	3.2
n-Heptane	2.8	J	0.66	3.3
Trichloroethene	340		0.84	0.86
Methyl methacrylate	8.2	U	0.66	8.2
1,2-Dichloropropane	3.7	U	0.50	3.7
1,4-Dioxane	72	U	8.1	72
Bromodichloromethane	5.7		0.80	5.4
cis-1,3-Dichloropropene	3.6	U	0.42	3.6
methyl isobutyl ketone	8.2	U	0.82	8.2
Toluene	11		1.4	3.0
trans-1,3-Dichloropropene	3.6	U	0.62	3.6
1,1,2-Trichloroethane	4.4	U	0.85	4.4
Tetrachloroethene	3.5	J	0.62	5.4
Methyl Butyl Ketone (2-Hexanone)	8.2	U	0.93	8.2
Dibromochloromethane	6.8	U	1.5	6.8
1,2-Dibromoethane	6.1	U	1.2	6.1
Chlorobenzene	3.7	U	0.90	3.7
Ethylbenzene	1.4	J	0.57	3.5
m,p-Xylene	6.0	J	1.2	8.7
Xylene, o-	2.2	J	0.64	3.5
Xylene (total)	8.3	J	0.64	12
Styrene	3.4	U	0.73	3.4
Bromoform	8.3	U	2.3	8.3
Cumene	3.9	U	0.59	3.9
1,1,2,2-Tetrachloroethane	5.5	U	1.2	5.5
n-Propylbenzene	3.9	U	0.85	3.9
4-Ethyltoluene	3.9	U	0.87	3.9
1,3,5-Trimethylbenzene	1.3	J	0.77	3.9
2-Chlorotoluene	4.1	U	0.68	4.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS02-092315

Lab Sample ID: 200-29972-3 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_19.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/05/2015 2327			Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 2327			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	4.4	U	0.97	4.4
1,2,4-Trimethylbenzene	3.2	J	0.85	3.9
sec-Butylbenzene	4.4	U	0.97	4.4
4-Isopropyltoluene	4.4	U	0.81	4.4
1,3-Dichlorobenzene	4.8	U	1.3	4.8
1,4-Dichlorobenzene	4.8	U	1.4	4.8
Benzyl chloride	4.1	U	1.1	4.1
n-Butylbenzene	4.4	U	1.0	4.4
1,2-Dichlorobenzene	4.8	U	1.3	4.8
1,2,4-Trichlorobenzene	15	U	2.0	15
Hexachlorobutadiene	8.5	U	3.5	8.5
Naphthalene	10	U	1.2	10

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.54		0.080	0.50
Freon 22	0.32	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.52		0.093	0.50
n-Butane	98	E	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.25		0.038	0.20
Freon TF	0.081	J	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	22		0.86	5.0
Isopropyl alcohol	2.3	J	0.98	5.0
Carbon disulfide	0.14	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.28	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	21		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	3.3		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	3.9		0.039	0.20
Carbon tetrachloride	0.074		0.032	0.040
2,2,4-Trimethylpentane	12		0.039	0.20
Benzene	6.2		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	4.2		0.040	0.20
Trichloroethene	0.044		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	3.0		0.050	0.50
Toluene	28		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.16	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.55		0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	4.2		0.033	0.20
m,p-Xylene	16		0.071	0.50
Xylene, o-	6.0		0.037	0.20
Xylene (total)	22		0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.79		0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.99		0.043	0.20
4-Ethyltoluene	2.5		0.044	0.20
1,3,5-Trimethylbenzene	2.8		0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	11		0.043	0.20
sec-Butylbenzene	0.27		0.044	0.20
4-Isopropyltoluene	1.3		0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	1.2		0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	15		0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.7		0.40	2.5
Freon 22	1.1	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.1		0.19	1.0
n-Butane	230	E	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.4		0.21	1.1
Freon TF	0.62	J	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	51		2.0	12
Isopropyl alcohol	5.7	J	2.4	12
Carbon disulfide	0.45	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.97	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	73		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	9.6		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	13		0.13	0.69
Carbon tetrachloride	0.47		0.20	0.25
2,2,4-Trimethylpentane	54		0.18	0.93
Benzene	20		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	17		0.16	0.82
Trichloroethene	0.23		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	12		0.20	2.0
Toluene	100		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.1	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.3		0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	18		0.14	0.87
m,p-Xylene	68		0.31	2.2
Xylene, o-	26		0.16	0.87
Xylene (total)	96		0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	3.9		0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	4.9		0.21	0.98
4-Ethyltoluene	12		0.22	0.98
1,3,5-Trimethylbenzene	14		0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1616			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1616			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	56		0.21	0.98
sec-Butylbenzene	1.5		0.24	1.1
4-Isopropyltoluene	7.2		0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	6.9		0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	78		0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.57	J D	0.40	2.5
Freon 22	0.36	J D	0.29	2.5
1,2-Dichlorotetrafluoroethane	1.0	U	0.19	1.0
Chloromethane	0.57	J D	0.47	2.5
n-Butane	110	D	0.39	2.5
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	1.0	U	0.45	1.0
Bromomethane	1.0	U	0.28	1.0
Chloroethane	2.5	U	0.43	2.5
Bromoethene(Vinyl Bromide)	1.0	U	0.22	1.0
Trichlorofluoromethane	0.26	J D	0.19	1.0
Freon TF	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.18	1.0
Acetone	23	J D	4.3	25
Isopropyl alcohol	25	U	4.9	25
Carbon disulfide	2.5	U	0.22	2.5
3-Chloropropene	2.5	U	0.34	2.5
Methylene Chloride	2.5	U	0.90	2.5
tert-Butyl alcohol	25	U	4.3	25
Methyl tert-butyl ether	1.0	U	0.45	1.0
trans-1,2-Dichloroethene	1.0	U	0.22	1.0
n-Hexane	20	D	0.27	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.7	D	0.26	2.5
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
1,2-Dichloroethene, Total	2.0	U	0.18	2.0
Chloroform	1.0	U	0.41	1.0
Tetrahydrofuran	25	U	7.0	25
1,1,1-Trichloroethane	1.0	U	0.23	1.0
Cyclohexane	3.5	D	0.20	1.0
Carbon tetrachloride	0.20	U	0.16	0.20
2,2,4-Trimethylpentane	11	D	0.20	1.0
Benzene	6.6	D	0.21	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
n-Heptane	3.8	D	0.20	1.0
Trichloroethene	0.20	U	0.20	0.20
Methyl methacrylate	2.5	U	0.20	2.5
1,2-Dichloropropane	1.0	U	0.14	1.0
1,4-Dioxane	25	U	2.8	25
Bromodichloromethane	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.12	1.0
methyl isobutyl ketone	2.4	J D	0.25	2.5
Toluene	30	D	0.47	1.0
trans-1,3-Dichloropropene	1.0	U	0.17	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	0.16	J D	0.12	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.5	U	0.29	2.5
Dibromochloromethane	1.0	U	0.22	1.0
1,2-Dibromoethane	1.0	U	0.20	1.0
Chlorobenzene	1.0	U	0.25	1.0
Ethylbenzene	4.0	D	0.17	1.0
m,p-Xylene	17	D	0.36	2.5
Xylene, o-	5.5	D	0.19	1.0
Xylene (total)	23	D	0.19	3.5
Styrene	1.0	U	0.22	1.0
Bromoform	1.0	U	0.28	1.0
Cumene	0.67	J D	0.15	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
n-Propylbenzene	0.89	J D	0.22	1.0
4-Ethyltoluene	2.5	D	0.22	1.0
1,3,5-Trimethylbenzene	2.7	D	0.20	1.0
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.0	U	0.22	1.0
1,2,4-Trimethylbenzene	12	D	0.22	1.0
sec-Butylbenzene	1.0	U	0.22	1.0
4-Isopropyltoluene	1.3	D	0.19	1.0
1,3-Dichlorobenzene	1.0	U	0.28	1.0
1,4-Dichlorobenzene	1.0	U	0.29	1.0
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.5	D	0.24	1.0
1,2-Dichlorobenzene	1.0	U	0.28	1.0
1,2,4-Trichlorobenzene	2.5	U	0.34	2.5
Hexachlorobutadiene	1.0	U	0.41	1.0
Naphthalene	15	D	0.29	2.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.8	J D	2.0	12
Freon 22	1.3	J D	1.0	8.8
1,2-Dichlorotetrafluoroethane	7.0	U	1.3	7.0
Chloromethane	1.2	J D	0.96	5.2
n-Butane	260	D	0.93	5.9
Vinyl chloride	0.51	U	0.41	0.51
1,3-Butadiene	2.2	U	0.98	2.2
Bromomethane	3.9	U	1.1	3.9
Chloroethane	6.6	U	1.1	6.6
Bromoethene(Vinyl Bromide)	4.4	U	0.96	4.4
Trichlorofluoromethane	1.5	J D	1.1	5.6
Freon TF	7.7	U	2.9	7.7
1,1-Dichloroethene	4.0	U	0.71	4.0
Acetone	53	J D	10	59
Isopropyl alcohol	61	U	12	61
Carbon disulfide	7.8	U	0.67	7.8

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	7.8	U	1.1	7.8
Methylene Chloride	8.7	U	3.1	8.7
tert-Butyl alcohol	76	U	13	76
Methyl tert-butyl ether	3.6	U	1.6	3.6
trans-1,2-Dichloroethene	4.0	U	0.85	4.0
n-Hexane	69	D	0.95	3.5
1,1-Dichloroethane	4.0	U	0.51	4.0
Methyl Ethyl Ketone	8.0	D	0.77	7.4
cis-1,2-Dichloroethene	4.0	U	0.69	4.0
1,2-Dichloroethene, Total	7.9	U	0.69	7.9
Chloroform	4.9	U	2.0	4.9
Tetrahydrofuran	74	U	21	74
1,1,1-Trichloroethane	5.5	U	1.3	5.5
Cyclohexane	12	D	0.67	3.4
Carbon tetrachloride	1.3	U	1.0	1.3
2,2,4-Trimethylpentane	53	D	0.91	4.7
Benzene	21	D	0.67	3.2
1,2-Dichloroethane	4.0	U	0.83	4.0
n-Heptane	16	D	0.82	4.1
Trichloroethene	1.1	U	1.0	1.1
Methyl methacrylate	10	U	0.82	10
1,2-Dichloropropane	4.6	U	0.62	4.6
1,4-Dioxane	90	U	10	90
Bromodichloromethane	6.7	U	1.0	6.7
cis-1,3-Dichloropropene	4.5	U	0.52	4.5
methyl isobutyl ketone	9.6	J D	1.0	10
Toluene	110	D	1.8	3.8
trans-1,3-Dichloropropene	4.5	U	0.77	4.5
1,1,2-Trichloroethane	5.5	U	1.1	5.5
Tetrachloroethene	1.1	J D	0.78	6.8
Methyl Butyl Ketone (2-Hexanone)	10	U	1.2	10
Dibromochloromethane	8.5	U	1.9	8.5
1,2-Dibromoethane	7.7	U	1.5	7.7
Chlorobenzene	4.6	U	1.1	4.6
Ethylbenzene	17	D	0.72	4.3
m,p-Xylene	72	D	1.5	11
Xylene, o-	24	D	0.80	4.3
Xylene (total)	98	D	0.80	15
Styrene	4.3	U	0.92	4.3
Bromoform	10	U	2.9	10
Cumene	3.3	J D	0.74	4.9
1,1,2,2-Tetrachloroethane	6.9	U	1.5	6.9
n-Propylbenzene	4.4	J D	1.1	4.9
4-Ethyltoluene	12	D	1.1	4.9
1,3,5-Trimethylbenzene	13	D	0.96	4.9
2-Chlorotoluene	5.2	U	0.85	5.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA02-092315

Lab Sample ID: 200-29972-4 Date Sampled: 09/23/2015 1717
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_006.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	09/30/2015 1515	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1515			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	5.5	U	1.2	5.5
1,2,4-Trimethylbenzene	57	D	1.1	4.9
sec-Butylbenzene	5.5	U	1.2	5.5
4-Isopropyltoluene	7.3	D	1.0	5.5
1,3-Dichlorobenzene	6.0	U	1.7	6.0
1,4-Dichlorobenzene	6.0	U	1.7	6.0
Benzyl chloride	5.2	U	1.4	5.2
n-Butylbenzene	8.3	D	1.3	5.5
1,2-Dichlorobenzene	6.0	U	1.7	6.0
1,2,4-Trichlorobenzene	19	U	2.5	19
Hexachlorobutadiene	11	U	4.4	11
Naphthalene	79	D	1.5	13

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS03-092315**

Lab Sample ID: 200-29972-5 | Date Sampled: 09/23/2015 1731
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.3		0.080	0.50
Freon 22	0.17	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.34	J	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	4.2		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	4.3	J	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.27	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.44	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.22		0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.75		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	9.6		0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.12		0.032	0.040
2,2,4-Trimethylpentane	0.055	J	0.039	0.20
Benzene	0.12	J	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.12	J	0.040	0.20
Trichloroethene	0.20		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.46	J	0.050	0.50
Toluene	0.48		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.054	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS03-092315

Lab Sample ID: 200-29972-5 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.068	J	0.033	0.20
m,p-Xylene	0.25	J	0.071	0.50
Xylene, o-	0.092	J	0.037	0.20
Xylene (total)	0.34	J	0.037	0.70
Styrene	0.066	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.068	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	6.2		0.40	2.5
Freon 22	0.59	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0	U	0.19	1.0
n-Butane	0.81	J	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	24		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	10	J	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	0.84	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS03-092315

Lab Sample ID: 200-29972-5 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.5	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.79		0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	2.2		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	52		0.25	1.1
Cyclohexane	0.69	U	0.13	0.69
Carbon tetrachloride	0.74		0.20	0.25
2,2,4-Trimethylpentane	0.25	J	0.18	0.93
Benzene	0.40	J	0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.48	J	0.16	0.82
Trichloroethene	1.1		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	1.9	J	0.20	2.0
Toluene	1.8		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.37	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.30	J	0.14	0.87
m,p-Xylene	1.1	J	0.31	2.2
Xylene, o-	0.40	J	0.16	0.87
Xylene (total)	1.5	J	0.16	3.0
Styrene	0.28	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS03-092315

Lab Sample ID: 200-29972-5 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_20.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0016			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0016			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.36	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA03-092315

Lab Sample ID: 200-29972-6 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1755			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1755			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.65		0.080	0.50
Freon 22	0.44	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.53		0.093	0.50
n-Butane	4.0		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	32		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.19	J	0.036	0.20
Acetone	4.4	J	0.86	5.0
Isopropyl alcohol	1.5	J	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.21	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.41		0.054	0.20
1,1-Dichloroethane	0.057	J	0.025	0.20
Methyl Ethyl Ketone	0.65		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.10	J	0.046	0.20
Cyclohexane	0.099	J	0.039	0.20
Carbon tetrachloride	0.093		0.032	0.040
2,2,4-Trimethylpentane	0.14	J	0.039	0.20
Benzene	0.32		0.042	0.20
1,2-Dichloroethane	0.12	J	0.041	0.20
n-Heptane	0.097	J	0.040	0.20
Trichloroethene	0.047		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.65		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.20	U	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA03-092315

Lab Sample ID: 200-29972-6 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1755			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1755			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.095	J	0.033	0.20
m,p-Xylene	0.33	J	0.071	0.50
Xylene, o-	0.12	J	0.037	0.20
Xylene (total)	0.45	J	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.083	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.2		0.40	2.5
Freon 22	1.6	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.1		0.19	1.0
n-Butane	9.5		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	180		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.76	J	0.14	0.79
Acetone	11	J	2.0	12
Isopropyl alcohol	3.7	J	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA03-092315

Lab Sample ID: 200-29972-6 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1755			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1755			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.72	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	1.4		0.19	0.70
1,1-Dichloroethane	0.23	J	0.10	0.81
Methyl Ethyl Ketone	1.9		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	0.55	J	0.25	1.1
Cyclohexane	0.34	J	0.13	0.69
Carbon tetrachloride	0.58		0.20	0.25
2,2,4-Trimethylpentane	0.68	J	0.18	0.93
Benzene	1.0		0.13	0.64
1,2-Dichloroethane	0.47	J	0.17	0.81
n-Heptane	0.40	J	0.16	0.82
Trichloroethene	0.26		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	2.5		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.41	J	0.14	0.87
m,p-Xylene	1.4	J	0.31	2.2
Xylene, o-	0.51	J	0.16	0.87
Xylene (total)	2.0	J	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA03-092315

Lab Sample ID: 200-29972-6 Date Sampled: 09/23/2015 1731
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1755			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1755			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.41	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS04-092315

Lab Sample ID: 200-29972-7 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.0	J	0.80	5.0
Freon 22	5.0	U	0.57	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.38	2.0
Chloromethane	5.0	U	0.93	5.0
n-Butane	5.0	U	0.78	5.0
Vinyl chloride	0.40	U	0.32	0.40
1,3-Butadiene	2.0	U	0.89	2.0
Bromomethane	2.0	U	0.56	2.0
Chloroethane	5.0	U	0.85	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.44	2.0
Trichlorofluoromethane	34		0.38	2.0
Freon TF	2.0	U	0.75	2.0
1,1-Dichloroethene	5.1		0.36	2.0
Acetone	14	J	8.6	50
Isopropyl alcohol	50	U	9.8	50
Carbon disulfide	5.0	U	0.43	5.0
3-Chloropropene	5.0	U	0.68	5.0
Methylene Chloride	5.0	U	1.8	5.0
tert-Butyl alcohol	50	U	8.5	50
Methyl tert-butyl ether	2.0	U	0.89	2.0
trans-1,2-Dichloroethene	2.0	U	0.43	2.0
n-Hexane	2.0	U	0.54	2.0
1,1-Dichloroethane	2.0	U	0.25	2.0
Methyl Ethyl Ketone	5.0	U	0.52	5.0
cis-1,2-Dichloroethene	2.0	U	0.35	2.0
1,2-Dichloroethene, Total	4.0	U	0.35	4.0
Chloroform	33		0.82	2.0
Tetrahydrofuran	50	U	14	50
1,1,1-Trichloroethane	20		0.46	2.0
Cyclohexane	2.0	U	0.39	2.0
Carbon tetrachloride	0.40	U	0.32	0.40
2,2,4-Trimethylpentane	2.0	U	0.39	2.0
Benzene	0.48	J	0.42	2.0
1,2-Dichloroethane	2.0	U	0.41	2.0
n-Heptane	2.0	U	0.40	2.0
Trichloroethene	210		0.39	0.40
Methyl methacrylate	5.0	U	0.40	5.0
1,2-Dichloropropane	2.0	U	0.27	2.0
1,4-Dioxane	50	U	5.6	50
Bromodichloromethane	2.9		0.30	2.0
cis-1,3-Dichloropropene	2.0	U	0.23	2.0
methyl isobutyl ketone	5.0	U	0.50	5.0
Toluene	2.0	U	0.93	2.0
trans-1,3-Dichloropropene	2.0	U	0.34	2.0
1,1,2-Trichloroethane	2.0	U	0.39	2.0
Tetrachloroethene	2.4		0.23	2.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS04-092315

Lab Sample ID: 200-29972-7 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.57	5.0
Dibromochloromethane	2.0	U	0.44	2.0
1,2-Dibromoethane	2.0	U	0.39	2.0
Chlorobenzene	2.0	U	0.49	2.0
Ethylbenzene	2.0	U	0.33	2.0
m,p-Xylene	5.0	U	0.71	5.0
Xylene, o-	2.0	U	0.37	2.0
Xylene (total)	7.0	U	0.37	7.0
Styrene	2.0	U	0.43	2.0
Bromoform	2.0	U	0.56	2.0
Cumene	2.0	U	0.30	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.44	2.0
n-Propylbenzene	2.0	U	0.43	2.0
4-Ethyltoluene	2.0	U	0.44	2.0
1,3,5-Trimethylbenzene	2.0	U	0.39	2.0
2-Chlorotoluene	2.0	U	0.33	2.0
tert-Butylbenzene	2.0	U	0.44	2.0
1,2,4-Trimethylbenzene	2.0	U	0.43	2.0
sec-Butylbenzene	2.0	U	0.44	2.0
4-Isopropyltoluene	2.0	U	0.37	2.0
1,3-Dichlorobenzene	2.0	U	0.55	2.0
1,4-Dichlorobenzene	2.0	U	0.57	2.0
Benzyl chloride	2.0	U	0.53	2.0
n-Butylbenzene	2.0	U	0.47	2.0
1,2-Dichlorobenzene	2.0	U	0.55	2.0
1,2,4-Trichlorobenzene	5.0	U	0.68	5.0
Hexachlorobutadiene	2.0	U	0.82	2.0
Naphthalene	5.0	U	0.57	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	20	J	4.0	25
Freon 22	18	U	2.0	18
1,2-Dichlorotetrafluoroethane	14	U	2.7	14
Chloromethane	10	U	1.9	10
n-Butane	12	U	1.9	12
Vinyl chloride	1.0	U	0.82	1.0
1,3-Butadiene	4.4	U	2.0	4.4
Bromomethane	7.8	U	2.2	7.8
Chloroethane	13	U	2.2	13
Bromoethene(Vinyl Bromide)	8.7	U	1.9	8.7
Trichlorofluoromethane	190		2.1	11
Freon TF	15	U	5.7	15
1,1-Dichloroethene	20		1.4	7.9
Acetone	33	J	20	120
Isopropyl alcohol	120	U	24	120
Carbon disulfide	16	U	1.3	16

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS04-092315

Lab Sample ID: 200-29972-7 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	16	U	2.1	16
Methylene Chloride	17	U	6.3	17
tert-Butyl alcohol	150	U	26	150
Methyl tert-butyl ether	7.2	U	3.2	7.2
trans-1,2-Dichloroethene	7.9	U	1.7	7.9
n-Hexane	7.0	U	1.9	7.0
1,1-Dichloroethane	8.1	U	1.0	8.1
Methyl Ethyl Ketone	15	U	1.5	15
cis-1,2-Dichloroethene	7.9	U	1.4	7.9
1,2-Dichloroethene, Total	16	U	1.4	16
Chloroform	160		4.0	9.8
Tetrahydrofuran	150	U	41	150
1,1,1-Trichloroethane	110		2.5	11
Cyclohexane	6.9	U	1.3	6.9
Carbon tetrachloride	2.5	U	2.0	2.5
2,2,4-Trimethylpentane	9.3	U	1.8	9.3
Benzene	1.5	J	1.3	6.4
1,2-Dichloroethane	8.1	U	1.7	8.1
n-Heptane	8.2	U	1.6	8.2
Trichloroethene	1100		2.1	2.1
Methyl methacrylate	20	U	1.6	20
1,2-Dichloropropane	9.2	U	1.2	9.2
1,4-Dioxane	180	U	20	180
Bromodichloromethane	20		2.0	13
cis-1,3-Dichloropropene	9.1	U	1.0	9.1
methyl isobutyl ketone	20	U	2.0	20
Toluene	7.5	U	3.5	7.5
trans-1,3-Dichloropropene	9.1	U	1.5	9.1
1,1,2-Trichloroethane	11	U	2.1	11
Tetrachloroethene	17		1.6	14
Methyl Butyl Ketone (2-Hexanone)	20	U	2.3	20
Dibromochloromethane	17	U	3.7	17
1,2-Dibromoethane	15	U	3.0	15
Chlorobenzene	9.2	U	2.3	9.2
Ethylbenzene	8.7	U	1.4	8.7
m,p-Xylene	22	U	3.1	22
Xylene, o-	8.7	U	1.6	8.7
Xylene (total)	30	U	1.6	30
Styrene	8.5	U	1.8	8.5
Bromoform	21	U	5.8	21
Cumene	9.8	U	1.5	9.8
1,1,2,2-Tetrachloroethane	14	U	3.0	14
n-Propylbenzene	9.8	U	2.1	9.8
4-Ethyltoluene	9.8	U	2.2	9.8
1,3,5-Trimethylbenzene	9.8	U	1.9	9.8
2-Chlorotoluene	10	U	1.7	10

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS04-092315

Lab Sample ID: 200-29972-7 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_011.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/29/2015 1844			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1844			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	11	U	2.4	11
1,2,4-Trimethylbenzene	9.8	U	2.1	9.8
sec-Butylbenzene	11	U	2.4	11
4-Isopropyltoluene	11	U	2.0	11
1,3-Dichlorobenzene	12	U	3.3	12
1,4-Dichlorobenzene	12	U	3.4	12
Benzyl chloride	10	U	2.7	10
n-Butylbenzene	11	U	2.6	11
1,2-Dichlorobenzene	12	U	3.3	12
1,2,4-Trichlorobenzene	37	U	5.0	37
Hexachlorobutadiene	21	U	8.7	21
Naphthalene	26	U	3.0	26

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA04-092315

Lab Sample ID: 200-29972-8 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60		0.080	0.50
Freon 22	0.40	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	1.3		0.093	0.50
n-Butane	2.8		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.14	J	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	32		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.14	J	0.036	0.20
Acetone	14		0.86	5.0
Isopropyl alcohol	1.2	J	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.19	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.36		0.054	0.20
1,1-Dichloroethane	0.035	J	0.025	0.20
Methyl Ethyl Ketone	2.3		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.18	J	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.058	J	0.046	0.20
Cyclohexane	0.11	J	0.039	0.20
Carbon tetrachloride	0.062		0.032	0.040
2,2,4-Trimethylpentane	0.11	J	0.039	0.20
Benzene	0.26		0.042	0.20
1,2-Dichloroethane	0.066	J	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	4.3	J	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.17	J	0.050	0.50
Toluene	0.53		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.20	U	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA04-092315

Lab Sample ID: 200-29972-8 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.34	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.077	J	0.033	0.20
m,p-Xylene	0.24	J	0.071	0.50
Xylene, o-	0.12	J	0.037	0.20
Xylene (total)	0.36	J	0.037	0.70
Styrene	0.054	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.069	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9		0.40	2.5
Freon 22	1.4	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	2.6		0.19	1.0
n-Butane	6.8		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	0.37	J	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	180		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.57	J	0.14	0.79
Acetone	34		2.0	12
Isopropyl alcohol	3.1	J	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA04-092315

Lab Sample ID: 200-29972-8 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.65	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	1.3		0.19	0.70
1,1-Dichloroethane	0.14	J	0.10	0.81
Methyl Ethyl Ketone	6.8		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.88	J	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	0.32	J	0.25	1.1
Cyclohexane	0.39	J	0.13	0.69
Carbon tetrachloride	0.39		0.20	0.25
2,2,4-Trimethylpentane	0.51	J	0.18	0.93
Benzene	0.83		0.13	0.64
1,2-Dichloroethane	0.27	J	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	15	J	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.69	J	0.20	2.0
Toluene	2.0		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	1.4	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.33	J	0.14	0.87
m,p-Xylene	1.0	J	0.31	2.2
Xylene, o-	0.53	J	0.16	0.87
Xylene (total)	1.6	J	0.16	3.0
Styrene	0.23	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA04-092315

Lab Sample ID: 200-29972-8 Date Sampled: 09/23/2015 1746
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1933			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1933			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.34	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	88	U	14	88
Freon 22	88	U	10	88
1,2-Dichlorotetrafluoroethane	35	U	6.7	35
Chloromethane	88	U	16	88
n-Butane	25	J	14	88
Vinyl chloride	7.0	U	5.6	7.0
1,3-Butadiene	35	U	16	35
Bromomethane	35	U	9.9	35
Chloroethane	88	U	15	88
Bromoethene(Vinyl Bromide)	35	U	7.7	35
Trichlorofluoromethane	73		6.7	35
Freon TF	35	U	13	35
1,1-Dichloroethene	17000	E	6.3	35
Acetone	880	U	150	880
Isopropyl alcohol	880	U	170	880
Carbon disulfide	88	U	7.6	88
3-Chloropropene	88	U	12	88
Methylene Chloride	88	U	32	88
tert-Butyl alcohol	880	U	150	880
Methyl tert-butyl ether	35	U	16	35
trans-1,2-Dichloroethene	35	U	7.6	35
n-Hexane	35	U	9.5	35
1,1-Dichloroethane	4200		4.4	35
Methyl Ethyl Ketone	88	U	9.2	88
cis-1,2-Dichloroethene	35	U	6.2	35
1,2-Dichloroethene, Total	70	U	6.2	70
Chloroform	35	U	14	35
Tetrahydrofuran	880	U	250	880
1,1,1-Trichloroethane	35		8.1	35
Cyclohexane	35	U	6.9	35
Carbon tetrachloride	7.0	U	5.6	7.0
2,2,4-Trimethylpentane	35	U	6.9	35
Benzene	14	J	7.4	35
1,2-Dichloroethane	32	J	7.2	35
n-Heptane	35	U	7.0	35
Trichloroethene	460		6.9	7.0
Methyl methacrylate	88	U	7.0	88
1,2-Dichloropropane	35	U	4.8	35
1,4-Dioxane	880	U	99	880
Bromodichloromethane	35	U	5.3	35
cis-1,3-Dichloropropene	35	U	4.0	35
methyl isobutyl ketone	88	U	8.8	88
Toluene	35	U	16	35
trans-1,3-Dichloropropene	35	U	6.0	35
1,1,2-Trichloroethane	35	U	6.9	35
Tetrachloroethene	35	U	4.0	35

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	88	U	10	88
Dibromochloromethane	35	U	7.7	35
1,2-Dibromoethane	35	U	6.9	35
Chlorobenzene	35	U	8.6	35
Ethylbenzene	35	U	5.8	35
m,p-Xylene	88	U	12	88
Xylene, o-	35	U	6.5	35
Xylene (total)	120	U	6.5	120
Styrene	35	U	7.6	35
Bromoform	35	U	9.9	35
Cumene	35	U	5.3	35
1,1,2,2-Tetrachloroethane	35	U	7.7	35
n-Propylbenzene	35	U	7.6	35
4-Ethyltoluene	35	U	7.7	35
1,3,5-Trimethylbenzene	35	U	6.9	35
2-Chlorotoluene	35	U	5.8	35
tert-Butylbenzene	35	U	7.7	35
1,2,4-Trimethylbenzene	35	U	7.6	35
sec-Butylbenzene	35	U	7.7	35
4-Isopropyltoluene	35	U	6.5	35
1,3-Dichlorobenzene	35	U	9.7	35
1,4-Dichlorobenzene	35	U	10	35
Benzyl chloride	35	U	9.3	35
n-Butylbenzene	35	U	8.3	35
1,2-Dichlorobenzene	35	U	9.7	35
1,2,4-Trichlorobenzene	88	U	12	88
Hexachlorobutadiene	35	U	14	35
Naphthalene	88	U	10	88

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	440	U	70	440
Freon 22	310	U	35	310
1,2-Dichlorotetrafluoroethane	250	U	47	250
Chloromethane	180	U	34	180
n-Butane	59	J	33	210
Vinyl chloride	18	U	14	18
1,3-Butadiene	78	U	35	78
Bromomethane	140	U	38	140
Chloroethane	230	U	39	230
Bromoethene(Vinyl Bromide)	150	U	34	150
Trichlorofluoromethane	410		38	200
Freon TF	270	U	100	270
1,1-Dichloroethene	67000	E	25	140
Acetone	2100	U	360	2100
Isopropyl alcohol	2200	U	420	2200
Carbon disulfide	270	U	24	270

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	280	U	37	280
Methylene Chloride	310	U	110	310
tert-Butyl alcohol	2700	U	450	2700
Methyl tert-butyl ether	130	U	56	130
trans-1,2-Dichloroethene	140	U	30	140
n-Hexane	120	U	33	120
1,1-Dichloroethane	17000		18	140
Methyl Ethyl Ketone	260	U	27	260
cis-1,2-Dichloroethene	140	U	24	140
1,2-Dichloroethene, Total	280	U	24	280
Chloroform	170	U	70	170
Tetrahydrofuran	2600	U	730	2600
1,1,1-Trichloroethane	190		44	190
Cyclohexane	120	U	24	120
Carbon tetrachloride	44	U	35	44
2,2,4-Trimethylpentane	160	U	32	160
Benzene	44	J	24	110
1,2-Dichloroethane	130	J	29	140
n-Heptane	140	U	29	140
Trichloroethene	2400		37	38
Methyl methacrylate	360	U	29	360
1,2-Dichloropropane	160	U	22	160
1,4-Dioxane	3200	U	360	3200
Bromodichloromethane	240	U	35	240
cis-1,3-Dichloropropene	160	U	18	160
methyl isobutyl ketone	360	U	36	360
Toluene	130	U	62	130
trans-1,3-Dichloropropene	160	U	27	160
1,1,2-Trichloroethane	190	U	37	190
Tetrachloroethene	240	U	27	240
Methyl Butyl Ketone (2-Hexanone)	360	U	41	360
Dibromochloromethane	300	U	66	300
1,2-Dibromoethane	270	U	53	270
Chlorobenzene	160	U	40	160
Ethylbenzene	150	U	25	150
m,p-Xylene	380	U	54	380
Xylene, o-	150	U	28	150
Xylene (total)	530	U	28	530
Styrene	150	U	32	150
Bromoform	360	U	100	360
Cumene	170	U	26	170
1,1,2,2-Tetrachloroethane	240	U	53	240
n-Propylbenzene	170	U	37	170
4-Ethyltoluene	170	U	38	170
1,3,5-Trimethylbenzene	170	U	34	170
2-Chlorotoluene	180	U	30	180

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_013.d
Dilution:	176			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2023			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2023			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	190	U	43	190
1,2,4-Trimethylbenzene	170	U	37	170
sec-Butylbenzene	190	U	43	190
4-Isopropyltoluene	190	U	36	190
1,3-Dichlorobenzene	210	U	58	210
1,4-Dichlorobenzene	210	U	60	210
Benzyl chloride	180	U	48	180
n-Butylbenzene	190	U	45	190
1,2-Dichlorobenzene	210	U	58	210
1,2,4-Trichlorobenzene	650	U	89	650
Hexachlorobutadiene	380	U	150	380
Naphthalene	460	U	53	460

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	460	U	74	460
Freon 22	460	U	53	460
1,2-Dichlorotetrafluoroethane	190	U	35	190
Chloromethane	460	U	86	460
n-Butane	460	U	72	460
Vinyl chloride	37	U	30	37
1,3-Butadiene	190	U	83	190
Bromomethane	190	U	52	190
Chloroethane	460	U	79	460
Bromoethene(Vinyl Bromide)	190	U	41	190
Trichlorofluoromethane	78	J D	35	190
Freon TF	190	U	70	190
1,1-Dichloroethene	19000	D	33	190
Acetone	4600	U	800	4600
Isopropyl alcohol	4600	U	910	4600
Carbon disulfide	460	U	40	460
3-Chloropropene	460	U	63	460
Methylene Chloride	460	U	170	460
tert-Butyl alcohol	4600	U	790	4600
Methyl tert-butyl ether	190	U	83	190
trans-1,2-Dichloroethene	190	U	40	190
n-Hexane	190	U	50	190
1,1-Dichloroethane	4400	D	23	190
Methyl Ethyl Ketone	460	U	48	460
cis-1,2-Dichloroethene	190	U	32	190
1,2-Dichloroethene, Total	370	U	32	370
Chloroform	190	U	76	190
Tetrahydrofuran	4600	U	1300	4600
1,1,1-Trichloroethane	190	U	43	190
Cyclohexane	190	U	36	190
Carbon tetrachloride	37	U	30	37
2,2,4-Trimethylpentane	190	U	36	190
Benzene	190	U	39	190
1,2-Dichloroethane	190	U	38	190
n-Heptane	190	U	37	190
Trichloroethene	450	D	36	37
Methyl methacrylate	460	U	37	460
1,2-Dichloropropane	190	U	25	190
1,4-Dioxane	4600	U	520	4600
Bromodichloromethane	190	U	28	190
cis-1,3-Dichloropropene	190	U	21	190
methyl isobutyl ketone	460	U	46	460
Toluene	190	U	86	190
trans-1,3-Dichloropropene	190	U	32	190
1,1,2-Trichloroethane	190	U	36	190
Tetrachloroethene	190	U	21	190

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	460	U	53	460
Dibromochloromethane	190	U	41	190
1,2-Dibromoethane	190	U	36	190
Chlorobenzene	190	U	45	190
Ethylbenzene	190	U	31	190
m,p-Xylene	460	U	66	460
Xylene, o-	190	U	34	190
Xylene (total)	650	U	34	650
Styrene	190	U	40	190
Bromoform	190	U	52	190
Cumene	190	U	28	190
1,1,2,2-Tetrachloroethane	190	U	41	190
n-Propylbenzene	190	U	40	190
4-Ethyltoluene	190	U	41	190
1,3,5-Trimethylbenzene	190	U	36	190
2-Chlorotoluene	190	U	31	190
tert-Butylbenzene	190	U	41	190
1,2,4-Trimethylbenzene	190	U	40	190
sec-Butylbenzene	190	U	41	190
4-Isopropyltoluene	190	U	34	190
1,3-Dichlorobenzene	190	U	51	190
1,4-Dichlorobenzene	190	U	53	190
Benzyl chloride	190	U	49	190
n-Butylbenzene	190	U	44	190
1,2-Dichlorobenzene	190	U	51	190
1,2,4-Trichlorobenzene	460	U	63	460
Hexachlorobutadiene	190	U	76	190
Naphthalene	460	U	53	460

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2300	U	370	2300
Freon 22	1600	U	190	1600
1,2-Dichlorotetrafluoroethane	1300	U	250	1300
Chloromethane	960	U	180	960
n-Butane	1100	U	170	1100
Vinyl chloride	95	U	76	95
1,3-Butadiene	410	U	180	410
Bromomethane	720	U	200	720
Chloroethane	1200	U	210	1200
Bromoethene(Vinyl Bromide)	810	U	180	810
Trichlorofluoromethane	440	J D	200	1000
Freon TF	1400	U	530	1400
1,1-Dichloroethene	76000	D	130	740
Acetone	11000	U	1900	11000
Isopropyl alcohol	11000	U	2200	11000
Carbon disulfide	1400	U	120	1400

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1500	U	200	1500
Methylene Chloride	1600	U	580	1600
tert-Butyl alcohol	14000	U	2400	14000
Methyl tert-butyl ether	670	U	300	670
trans-1,2-Dichloroethene	740	U	160	740
n-Hexane	650	U	180	650
1,1-Dichloroethane	18000	D	94	750
Methyl Ethyl Ketone	1400	U	140	1400
cis-1,2-Dichloroethene	740	U	130	740
1,2-Dichloroethene, Total	1500	U	130	1500
Chloroform	910	U	370	910
Tetrahydrofuran	14000	U	3800	14000
1,1,1-Trichloroethane	1000	U	230	1000
Cyclohexane	640	U	120	640
Carbon tetrachloride	230	U	190	230
2,2,4-Trimethylpentane	870	U	170	870
Benzene	590	U	120	590
1,2-Dichloroethane	750	U	150	750
n-Heptane	760	U	150	760
Trichloroethene	2400	D	190	200
Methyl methacrylate	1900	U	150	1900
1,2-Dichloropropane	860	U	120	860
1,4-Dioxane	17000	U	1900	17000
Bromodichloromethane	1200	U	190	1200
cis-1,3-Dichloropropene	840	U	97	840
methyl isobutyl ketone	1900	U	190	1900
Toluene	700	U	320	700
trans-1,3-Dichloropropene	840	U	140	840
1,1,2-Trichloroethane	1000	U	200	1000
Tetrachloroethene	1300	U	140	1300
Methyl Butyl Ketone (2-Hexanone)	1900	U	220	1900
Dibromochloromethane	1600	U	350	1600
1,2-Dibromoethane	1400	U	280	1400
Chlorobenzene	850	U	210	850
Ethylbenzene	810	U	130	810
m,p-Xylene	2000	U	290	2000
Xylene, o-	810	U	150	810
Xylene (total)	2800	U	150	2800
Styrene	790	U	170	790
Bromoform	1900	U	540	1900
Cumene	910	U	140	910
1,1,2,2-Tetrachloroethane	1300	U	280	1300
n-Propylbenzene	910	U	200	910
4-Ethyltoluene	910	U	200	910
1,3,5-Trimethylbenzene	910	U	180	910
2-Chlorotoluene	960	U	160	960

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS05-092315

Lab Sample ID: 200-29972-9 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_014.d
Dilution:	927			Initial Weight/Volume:	38 mL
Analysis Date:	09/29/2015 2111	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2111			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1000	U	220	1000
1,2,4-Trimethylbenzene	910	U	200	910
sec-Butylbenzene	1000	U	220	1000
4-Isopropyltoluene	1000	U	190	1000
1,3-Dichlorobenzene	1100	U	310	1100
1,4-Dichlorobenzene	1100	U	320	1100
Benzyl chloride	960	U	250	960
n-Butylbenzene	1000	U	240	1000
1,2-Dichlorobenzene	1100	U	310	1100
1,2,4-Trichlorobenzene	3400	U	470	3400
Hexachlorobutadiene	2000	U	810	2000
Naphthalene	2400	U	280	2400

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.76		0.080	0.50
Freon 22	0.77		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.64		0.093	0.50
n-Butane	7.4		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	72	E	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	1.7		0.036	0.20
Acetone	11		0.86	5.0
Isopropyl alcohol	13		0.98	5.0
Carbon disulfide	0.13	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.32	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.85		0.054	0.20
1,1-Dichloroethane	0.56		0.025	0.20
Methyl Ethyl Ketone	1.1		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.77		0.046	0.20
Cyclohexane	0.25		0.039	0.20
Carbon tetrachloride	0.095		0.032	0.040
2,2,4-Trimethylpentane	0.42		0.039	0.20
Benzene	0.71		0.042	0.20
1,2-Dichloroethane	0.70		0.041	0.20
n-Heptane	0.26		0.040	0.20
Trichloroethene	0.049		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.22	J	0.050	0.50
Toluene	1.9		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.064	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.25		0.033	0.20
m,p-Xylene	0.92		0.071	0.50
Xylene, o-	0.33		0.037	0.20
Xylene (total)	1.3		0.037	0.70
Styrene	0.17	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.042	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.051	J	0.043	0.20
4-Ethyltoluene	0.084	J	0.044	0.20
1,3,5-Trimethylbenzene	0.086	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.35		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.096	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.069	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.16	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.7		0.40	2.5
Freon 22	2.7		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.3		0.19	1.0
n-Butane	17		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	400	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	6.8		0.14	0.79
Acetone	26		2.0	12
Isopropyl alcohol	32		2.4	12
Carbon disulfide	0.39	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.1	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	3.0		0.19	0.70
1,1-Dichloroethane	2.3		0.10	0.81
Methyl Ethyl Ketone	3.3		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	4.2		0.25	1.1
Cyclohexane	0.85		0.13	0.69
Carbon tetrachloride	0.60		0.20	0.25
2,2,4-Trimethylpentane	2.0		0.18	0.93
Benzene	2.3		0.13	0.64
1,2-Dichloroethane	2.8		0.17	0.81
n-Heptane	1.1		0.16	0.82
Trichloroethene	0.26		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.89	J	0.20	2.0
Toluene	7.2		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.43	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	1.1		0.14	0.87
m,p-Xylene	4.0		0.31	2.2
Xylene, o-	1.4		0.16	0.87
Xylene (total)	5.4		0.16	3.0
Styrene	0.73	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.21	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.25	J	0.21	0.98
4-Ethyltoluene	0.41	J	0.22	0.98
1,3,5-Trimethylbenzene	0.42	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_015.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2202			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2202			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.7		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.53	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.41	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.83	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.59	J D	0.24	1.5
Freon 22	0.53	J D	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	0.47	J D	0.28	1.5
n-Butane	5.0	D	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.25	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	55	D	0.11	0.60
Freon TF	0.60	U	0.22	0.60
1,1-Dichloroethene	1.3	D	0.11	0.60
Acetone	8.0	J D	2.6	15
Isopropyl alcohol	9.0	J D	2.9	15
Carbon disulfide	1.5	U	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.5	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	0.59	J D	0.16	0.60
1,1-Dichloroethane	0.43	J D	0.075	0.60
Methyl Ethyl Ketone	0.76	J D	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.10	0.60
1,2-Dichloroethene, Total	1.2	U	0.10	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	0.58	J D	0.14	0.60
Cyclohexane	0.60	U	0.12	0.60
Carbon tetrachloride	0.12	U	0.096	0.12
2,2,4-Trimethylpentane	0.27	J D	0.12	0.60
Benzene	0.52	J D	0.13	0.60
1,2-Dichloroethane	0.50	J D	0.12	0.60
n-Heptane	0.60	U	0.12	0.60
Trichloroethene	0.12	U	0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	1.5	U	0.15	1.5
Toluene	1.3	D	0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.60	U	0.069	0.60

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	0.19	J D	0.099	0.60
m,p-Xylene	0.61	J D	0.21	1.5
Xylene, o-	0.21	J D	0.11	0.60
Xylene (total)	0.82	J D	0.11	2.1
Styrene	0.60	U	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.60	U	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.60	U	0.13	0.60
4-Ethyltoluene	0.60	U	0.13	0.60
1,3,5-Trimethylbenzene	0.60	U	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.24	J D	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.16	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.16	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	1.5	U	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9	J D	1.2	7.4
Freon 22	1.9	J D	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.79	4.2
Chloromethane	0.98	J D	0.57	3.1
n-Butane	12	D	0.55	3.6
Vinyl chloride	0.31	U	0.24	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	3.9	U	0.67	3.9
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	310	D	0.64	3.4
Freon TF	4.6	U	1.7	4.6
1,1-Dichloroethene	5.1	D	0.43	2.4
Acetone	19	J D	6.1	36
Isopropyl alcohol	22	J D	7.2	37
Carbon disulfide	4.7	U	0.40	4.7

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	2.1	J D	0.57	2.1
1,1-Dichloroethane	1.8	J D	0.30	2.4
Methyl Ethyl Ketone	2.2	J D	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.41	2.4
1,2-Dichloroethene, Total	4.7	U	0.41	4.7
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	3.2	J D	0.75	3.3
Cyclohexane	2.1	U	0.40	2.1
Carbon tetrachloride	0.75	U	0.60	0.75
2,2,4-Trimethylpentane	1.3	J D	0.54	2.8
Benzene	1.7	J D	0.40	1.9
1,2-Dichloroethane	2.0	J D	0.50	2.4
n-Heptane	2.5	U	0.49	2.5
Trichloroethene	0.64	U	0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.0	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	6.1	U	0.61	6.1
Toluene	4.8	D	1.0	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	4.1	U	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.67	2.8
Ethylbenzene	0.84	J D	0.43	2.6
m,p-Xylene	2.7	J D	0.92	6.5
Xylene, o-	0.90	J D	0.48	2.6
Xylene (total)	3.6	J D	0.48	9.1
Styrene	2.5	U	0.55	2.5
Bromoform	6.2	U	1.7	6.2
Cumene	2.9	U	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.90	4.1
n-Propylbenzene	2.9	U	0.63	2.9
4-Ethyltoluene	2.9	U	0.65	2.9
1,3,5-Trimethylbenzene	2.9	U	0.57	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA05-092315

Lab Sample ID: 200-29972-10 Date Sampled: 09/23/2015 1751
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_026.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 0803	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0803			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	1.2	J D	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	7.8	U	0.89	7.8

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS06-092315**

Lab Sample ID: 200-29972-11 | Date Sampled: 09/23/2015 1759
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60		0.080	0.50
Freon 22	0.19	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.19	J	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	21		0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	7.2		0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.29	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.18	J	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	1.5		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	2.2	J	1.4	5.0
1,1,1-Trichloroethane	14		0.046	0.20
Cyclohexane	0.27		0.039	0.20
Carbon tetrachloride	0.086		0.032	0.040
2,2,4-Trimethylpentane	0.090	J	0.039	0.20
Benzene	0.23		0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.14		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.62		0.050	0.50
Toluene	0.70		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.90		0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS06-092315

Lab Sample ID: 200-29972-11 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.073	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.094	J	0.033	0.20
m,p-Xylene	0.31	J	0.071	0.50
Xylene, o-	0.13	J	0.037	0.20
Xylene (total)	0.44	J	0.037	0.70
Styrene	0.12	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.062	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.21	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.0		0.40	2.5
Freon 22	0.67	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0	U	0.19	1.0
n-Butane	0.46	J	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	120		0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	17		2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	0.91	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS06-092315

Lab Sample ID: 200-29972-11 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.63	J	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	4.3		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	6.4	J	4.1	15
1,1,1-Trichloroethane	74		0.25	1.1
Cyclohexane	0.94		0.13	0.69
Carbon tetrachloride	0.54		0.20	0.25
2,2,4-Trimethylpentane	0.42	J	0.18	0.93
Benzene	0.74		0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.77		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.6		0.20	2.0
Toluene	2.6		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	6.1		0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.30	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.41	J	0.14	0.87
m,p-Xylene	1.4	J	0.31	2.2
Xylene, o-	0.57	J	0.16	0.87
Xylene (total)	1.9	J	0.16	3.0
Styrene	0.51	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: **FR-SS06-092315**

Lab Sample ID: 200-29972-11 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_21.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	10/06/2015 0105			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0105			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.30	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	1.1	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.69		0.080	0.50
Freon 22	0.59		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.59		0.093	0.50
n-Butane	5.4		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	49	E	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.48		0.036	0.20
Acetone	7.0		0.86	5.0
Isopropyl alcohol	4.6	J	0.98	5.0
Carbon disulfide	0.045	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.27	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.59		0.054	0.20
1,1-Dichloroethane	0.16	J	0.025	0.20
Methyl Ethyl Ketone	0.71		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.33		0.046	0.20
Cyclohexane	0.13	J	0.039	0.20
Carbon tetrachloride	0.092		0.032	0.040
2,2,4-Trimethylpentane	0.23		0.039	0.20
Benzene	0.46		0.042	0.20
1,2-Dichloroethane	0.39		0.041	0.20
n-Heptane	0.16	J	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	1.1		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.043	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.15	J	0.033	0.20
m,p-Xylene	0.51		0.071	0.50
Xylene, o-	0.18	J	0.037	0.20
Xylene (total)	0.69	J	0.037	0.70
Styrene	0.076	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.12	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.037	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.4		0.40	2.5
Freon 22	2.1		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	13		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	270	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	1.9		0.14	0.79
Acetone	17		2.0	12
Isopropyl alcohol	11	J	2.4	12
Carbon disulfide	0.14	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.95	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	2.1		0.19	0.70
1,1-Dichloroethane	0.66	J	0.10	0.81
Methyl Ethyl Ketone	2.1		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.8		0.25	1.1
Cyclohexane	0.45	J	0.13	0.69
Carbon tetrachloride	0.58		0.20	0.25
2,2,4-Trimethylpentane	1.1		0.18	0.93
Benzene	1.5		0.13	0.64
1,2-Dichloroethane	1.6		0.17	0.81
n-Heptane	0.66	J	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	4.0		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.29	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.66	J	0.14	0.87
m,p-Xylene	2.2		0.31	2.2
Xylene, o-	0.79	J	0.16	0.87
Xylene (total)	3.0	J	0.16	3.0
Styrene	0.32	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 2340			Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 2340			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.61	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.20	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.60	J D	0.16	1.0
Freon 22	0.50	J D	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	0.54	J D	0.19	1.0
n-Butane	4.3	D	0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	44	D	0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.44	D	0.072	0.40
Acetone	6.2	J D	1.7	10
Isopropyl alcohol	4.0	J D	2.0	10
Carbon disulfide	1.0	U	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	1.0	U	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.49	D	0.11	0.40
1,1-Dichloroethane	0.13	J D	0.050	0.40
Methyl Ethyl Ketone	0.54	J D	0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	0.30	J D	0.092	0.40
Cyclohexane	0.40	U	0.078	0.40
Carbon tetrachloride	0.080	D	0.064	0.080
2,2,4-Trimethylpentane	0.19	J D	0.078	0.40
Benzene	0.43	D	0.084	0.40
1,2-Dichloroethane	0.34	J D	0.082	0.40
n-Heptane	0.12	J D	0.080	0.40
Trichloroethene	0.080	U	0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	1.0	U	0.10	1.0
Toluene	0.87	D	0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0.078	0.40
Tetrachloroethene	0.40	U	0.046	0.40

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.14	J D	0.066	0.40
m,p-Xylene	0.46	J D	0.14	1.0
Xylene, o-	0.15	J D	0.074	0.40
Xylene (total)	0.61	J D	0.074	1.4
Styrene	0.40	U	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.40	U	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.10	J D	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9	J D	0.79	4.9
Freon 22	1.8	J D	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	1.1	J D	0.38	2.1
n-Butane	10	D	0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	250	D	0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	1.8	D	0.29	1.6
Acetone	15	J D	4.1	24
Isopropyl alcohol	9.9	J D	4.8	25
Carbon disulfide	3.1	U	0.27	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	3.5	U	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	1.7	D	0.38	1.4
1,1-Dichloroethane	0.53	J D	0.20	1.6
Methyl Ethyl Ketone	1.6	J D	0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	1.7	J D	0.50	2.2
Cyclohexane	1.4	U	0.27	1.4
Carbon tetrachloride	0.50	D	0.40	0.50
2,2,4-Trimethylpentane	0.88	J D	0.36	1.9
Benzene	1.4	D	0.27	1.3
1,2-Dichloroethane	1.4	J D	0.33	1.6
n-Heptane	0.50	J D	0.33	1.6
Trichloroethene	0.43	U	0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	4.1	U	0.41	4.1
Toluene	3.3	D	0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	2.7	U	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.59	J D	0.29	1.7
m,p-Xylene	2.0	J D	0.62	4.3
Xylene, o-	0.64	J D	0.32	1.7
Xylene (total)	2.6	J D	0.32	6.1
Styrene	1.7	U	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	2.0	U	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA06-092315

Lab Sample ID: 200-29972-12 Date Sampled: 09/23/2015 1759
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_027.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0851	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0851			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	0.50	J D	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS07-092315

Lab Sample ID: 200-29972-13 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.64	J	0.40	2.5
Freon 22	2.5	U	0.29	2.5
1,2-Dichlorotetrafluoroethane	1.0	U	0.19	1.0
Chloromethane	2.5	U	0.47	2.5
n-Butane	2.5	U	0.39	2.5
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	1.0	U	0.45	1.0
Bromomethane	1.0	U	0.28	1.0
Chloroethane	2.5	U	0.43	2.5
Bromoethene(Vinyl Bromide)	1.0	U	0.22	1.0
Trichlorofluoromethane	92		0.19	1.0
Freon TF	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.18	1.0
Acetone	25	U	4.3	25
Isopropyl alcohol	25	U	4.9	25
Carbon disulfide	2.5	U	0.22	2.5
3-Chloropropene	2.5	U	0.34	2.5
Methylene Chloride	2.5	U	0.90	2.5
tert-Butyl alcohol	25	U	4.3	25
Methyl tert-butyl ether	1.0	U	0.45	1.0
trans-1,2-Dichloroethene	1.0	U	0.22	1.0
n-Hexane	1.0	U	0.27	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
Methyl Ethyl Ketone	2.5	U	0.26	2.5
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
1,2-Dichloroethene, Total	2.0	U	0.18	2.0
Chloroform	1.0	U	0.41	1.0
Tetrahydrofuran	25	U	7.0	25
1,1,1-Trichloroethane	8.8		0.23	1.0
Cyclohexane	1.0	U	0.20	1.0
Carbon tetrachloride	0.20	U	0.16	0.20
2,2,4-Trimethylpentane	1.0	U	0.20	1.0
Benzene	1.0	U	0.21	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
n-Heptane	1.0	U	0.20	1.0
Trichloroethene	0.20	U	0.20	0.20
Methyl methacrylate	2.5	U	0.20	2.5
1,2-Dichloropropane	1.0	U	0.14	1.0
1,4-Dioxane	25	U	2.8	25
Bromodichloromethane	1.0	U	0.15	1.0
cis-1,3-Dichloropropene	1.0	U	0.12	1.0
methyl isobutyl ketone	2.5	U	0.25	2.5
Toluene	1.0	U	0.47	1.0
trans-1,3-Dichloropropene	1.0	U	0.17	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Tetrachloroethene	0.12	J	0.12	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS07-092315

Lab Sample ID: 200-29972-13 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.5	U	0.29	2.5
Dibromochloromethane	1.0	U	0.22	1.0
1,2-Dibromoethane	1.0	U	0.20	1.0
Chlorobenzene	1.0	U	0.25	1.0
Ethylbenzene	1.0	U	0.17	1.0
m,p-Xylene	2.5	U	0.36	2.5
Xylene, o-	1.0	U	0.19	1.0
Xylene (total)	3.5	U	0.19	3.5
Styrene	1.0	U	0.22	1.0
Bromoform	1.0	U	0.28	1.0
Cumene	1.0	U	0.15	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
n-Propylbenzene	1.0	U	0.22	1.0
4-Ethyltoluene	1.0	U	0.22	1.0
1,3,5-Trimethylbenzene	1.0	U	0.20	1.0
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.0	U	0.22	1.0
1,2,4-Trimethylbenzene	1.0	U	0.22	1.0
sec-Butylbenzene	1.0	U	0.22	1.0
4-Isopropyltoluene	1.0	U	0.19	1.0
1,3-Dichlorobenzene	1.0	U	0.28	1.0
1,4-Dichlorobenzene	1.0	U	0.29	1.0
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.0	U	0.24	1.0
1,2-Dichlorobenzene	1.0	U	0.28	1.0
1,2,4-Trichlorobenzene	2.5	U	0.34	2.5
Hexachlorobutadiene	1.0	U	0.41	1.0
Naphthalene	2.5	U	0.29	2.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.2	J	2.0	12
Freon 22	8.8	U	1.0	8.8
1,2-Dichlorotetrafluoroethane	7.0	U	1.3	7.0
Chloromethane	5.2	U	0.96	5.2
n-Butane	5.9	U	0.93	5.9
Vinyl chloride	0.51	U	0.41	0.51
1,3-Butadiene	2.2	U	0.98	2.2
Bromomethane	3.9	U	1.1	3.9
Chloroethane	6.6	U	1.1	6.6
Bromoethene(Vinyl Bromide)	4.4	U	0.96	4.4
Trichlorofluoromethane	520		1.1	5.6
Freon TF	7.7	U	2.9	7.7
1,1-Dichloroethene	4.0	U	0.71	4.0
Acetone	59	U	10	59
Isopropyl alcohol	61	U	12	61
Carbon disulfide	7.8	U	0.67	7.8

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Client Sample ID: **FR-SS07-092315**

Lab Sample ID: 200-29972-13
Client Matrix: Air

Date Sampled: 09/23/2015 1814
Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	7.8	U	1.1	7.8
Methylene Chloride	8.7	U	3.1	8.7
tert-Butyl alcohol	76	U	13	76
Methyl tert-butyl ether	3.6	U	1.6	3.6
trans-1,2-Dichloroethene	4.0	U	0.85	4.0
n-Hexane	3.5	U	0.95	3.5
1,1-Dichloroethane	4.0	U	0.51	4.0
Methyl Ethyl Ketone	7.4	U	0.77	7.4
cis-1,2-Dichloroethene	4.0	U	0.69	4.0
1,2-Dichloroethene, Total	7.9	U	0.69	7.9
Chloroform	4.9	U	2.0	4.9
Tetrahydrofuran	74	U	21	74
1,1,1-Trichloroethane	48		1.3	5.5
Cyclohexane	3.4	U	0.67	3.4
Carbon tetrachloride	1.3	U	1.0	1.3
2,2,4-Trimethylpentane	4.7	U	0.91	4.7
Benzene	3.2	U	0.67	3.2
1,2-Dichloroethane	4.0	U	0.83	4.0
n-Heptane	4.1	U	0.82	4.1
Trichloroethene	1.1	U	1.0	1.1
Methyl methacrylate	10	U	0.82	10
1,2-Dichloropropane	4.6	U	0.62	4.6
1,4-Dioxane	90	U	10	90
Bromodichloromethane	6.7	U	1.0	6.7
cis-1,3-Dichloropropene	4.5	U	0.52	4.5
methyl isobutyl ketone	10	U	1.0	10
Toluene	3.8	U	1.8	3.8
trans-1,3-Dichloropropene	4.5	U	0.77	4.5
1,1,2-Trichloroethane	5.5	U	1.1	5.5
Tetrachloroethene	0.80	J	0.78	6.8
Methyl Butyl Ketone (2-Hexanone)	10	U	1.2	10
Dibromochloromethane	8.5	U	1.9	8.5
1,2-Dibromoethane	7.7	U	1.5	7.7
Chlorobenzene	4.6	U	1.1	4.6
Ethylbenzene	4.3	U	0.72	4.3
m,p-Xylene	11	U	1.5	11
Xylene, o-	4.3	U	0.80	4.3
Xylene (total)	15	U	0.80	15
Styrene	4.3	U	0.92	4.3
Bromoform	10	U	2.9	10
Cumene	4.9	U	0.74	4.9
1,1,2,2-Tetrachloroethane	6.9	U	1.5	6.9
n-Propylbenzene	4.9	U	1.1	4.9
4-Ethyltoluene	4.9	U	1.1	4.9
1,3,5-Trimethylbenzene	4.9	U	0.96	4.9
2-Chlorotoluene	5.2	U	0.85	5.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS07-092315

Lab Sample ID: 200-29972-13 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_22.D
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	10/06/2015 0155			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0155			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	5.5	U	1.2	5.5
1,2,4-Trimethylbenzene	4.9	U	1.1	4.9
sec-Butylbenzene	5.5	U	1.2	5.5
4-Isopropyltoluene	5.5	U	1.0	5.5
1,3-Dichlorobenzene	6.0	U	1.7	6.0
1,4-Dichlorobenzene	6.0	U	1.7	6.0
Benzyl chloride	5.2	U	1.4	5.2
n-Butylbenzene	5.5	U	1.3	5.5
1,2-Dichlorobenzene	6.0	U	1.7	6.0
1,2,4-Trichlorobenzene	19	U	2.5	19
Hexachlorobutadiene	11	U	4.4	11
Naphthalene	13	U	1.5	13

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-IA07-092315**

Lab Sample ID: 200-29972-14 | Date Sampled: 09/23/2015 1814
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1653			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1653			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.57		0.080	0.50
Freon 22	0.55		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50		0.093	0.50
n-Butane	3.9		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.089	J	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	40	E	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.53		0.036	0.20
Acetone	6.6		0.86	5.0
Isopropyl alcohol	3.7	J	0.98	5.0
Carbon disulfide	0.18	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.23	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.45		0.054	0.20
1,1-Dichloroethane	0.15	J	0.025	0.20
Methyl Ethyl Ketone	0.79		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.40		0.046	0.20
Cyclohexane	0.14	J	0.039	0.20
Carbon tetrachloride	0.085		0.032	0.040
2,2,4-Trimethylpentane	0.21		0.039	0.20
Benzene	0.43		0.042	0.20
1,2-Dichloroethane	0.53		0.041	0.20
n-Heptane	0.14	J	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	1.0		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.051	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1653			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1653			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.12	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.14	J	0.033	0.20
m,p-Xylene	0.49	J	0.071	0.50
Xylene, o-	0.18	J	0.037	0.20
Xylene (total)	0.67	J	0.037	0.70
Styrene	0.13	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.050	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.16	J	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.063	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.060	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.12	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.8		0.40	2.5
Freon 22	1.9		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0		0.19	1.0
n-Butane	9.3		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	0.23	J	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	230	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	2.1		0.14	0.79
Acetone	16		2.0	12
Isopropyl alcohol	9.1	J	2.4	12
Carbon disulfide	0.58	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1653			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1653			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	0.81	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	1.6		0.19	0.70
1,1-Dichloroethane	0.62	J	0.10	0.81
Methyl Ethyl Ketone	2.3		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	2.2		0.25	1.1
Cyclohexane	0.48	J	0.13	0.69
Carbon tetrachloride	0.53		0.20	0.25
2,2,4-Trimethylpentane	0.97		0.18	0.93
Benzene	1.4		0.13	0.64
1,2-Dichloroethane	2.2		0.17	0.81
n-Heptane	0.59	J	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	3.8		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.35	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.50	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.63	J	0.14	0.87
m,p-Xylene	2.1	J	0.31	2.2
Xylene, o-	0.79	J	0.16	0.87
Xylene (total)	2.9	J	0.16	3.0
Styrene	0.54	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.25	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_008.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1653			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1653			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.77	J	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.35	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.36	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.66	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.66	J D	0.16	1.0
Freon 22	0.64	J D	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	0.58	J D	0.19	1.0
n-Butane	4.6	D	0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	45	D	0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.54	D	0.072	0.40
Acetone	7.4	J D	1.7	10
Isopropyl alcohol	4.1	J D	2.0	10
Carbon disulfide	0.21	J D	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	1.0	U	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.45	D	0.11	0.40
1,1-Dichloroethane	0.16	J D	0.050	0.40
Methyl Ethyl Ketone	0.79	J D	0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	0.42	D	0.092	0.40
Cyclohexane	0.40	U	0.078	0.40
Carbon tetrachloride	0.078	J D	0.064	0.080
2,2,4-Trimethylpentane	0.20	J D	0.078	0.40
Benzene	0.47	D	0.084	0.40
1,2-Dichloroethane	0.58	D	0.082	0.40
n-Heptane	0.40	U	0.080	0.40
Trichloroethene	0.080	U	0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	1.0	U	0.10	1.0
Toluene	0.95	D	0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0.078	0.40
Tetrachloroethene	0.40	U	0.046	0.40

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.14	J D	0.066	0.40
m,p-Xylene	0.42	J D	0.14	1.0
Xylene, o-	0.16	J D	0.074	0.40
Xylene (total)	0.58	J D	0.074	1.4
Styrene	0.099	J D	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.40	U	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.12	J D	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.3	J D	0.79	4.9
Freon 22	2.3	J D	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	1.2	J D	0.38	2.1
n-Butane	11	D	0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	250	D	0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	2.1	D	0.29	1.6
Acetone	18	J D	4.1	24
Isopropyl alcohol	10	J D	4.8	25
Carbon disulfide	0.64	J D	0.27	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	3.5	U	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	1.6	D	0.38	1.4
1,1-Dichloroethane	0.65	J D	0.20	1.6
Methyl Ethyl Ketone	2.3	J D	0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	2.3	D	0.50	2.2
Cyclohexane	1.4	U	0.27	1.4
Carbon tetrachloride	0.49	J D	0.40	0.50
2,2,4-Trimethylpentane	0.92	J D	0.36	1.9
Benzene	1.5	D	0.27	1.3
1,2-Dichloroethane	2.4	D	0.33	1.6
n-Heptane	1.6	U	0.33	1.6
Trichloroethene	0.43	U	0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	4.1	U	0.41	4.1
Toluene	3.6	D	0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	2.7	U	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.62	J D	0.29	1.7
m,p-Xylene	1.8	J D	0.62	4.3
Xylene, o-	0.69	J D	0.32	1.7
Xylene (total)	2.5	J D	0.32	6.1
Styrene	0.42	J D	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	2.0	U	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA07-092315

Lab Sample ID: 200-29972-14 Date Sampled: 09/23/2015 1814
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_028.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	09/30/2015 0939	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0939			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	0.58	J D	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	20	U	3.2	20
Freon 22	20	U	2.3	20
1,2-Dichlorotetrafluoroethane	7.9	U	1.5	7.9
Chloromethane	20	U	3.7	20
n-Butane	20		3.1	20
Vinyl chloride	1.6	U	1.3	1.6
1,3-Butadiene	7.9	U	3.5	7.9
Bromomethane	7.9	U	2.2	7.9
Chloroethane	280		3.4	20
Bromoethene(Vinyl Bromide)	7.9	U	1.7	7.9
Trichlorofluoromethane	63		1.5	7.9
Freon TF	7.9	U	3.0	7.9
1,1-Dichloroethene	3600	E	1.4	7.9
Acetone	200	U	34	200
Isopropyl alcohol	200	U	39	200
Carbon disulfide	20	U	1.7	20
3-Chloropropene	20	U	2.7	20
Methylene Chloride	20	U	7.1	20
tert-Butyl alcohol	200	U	34	200
Methyl tert-butyl ether	7.9	U	3.5	7.9
trans-1,2-Dichloroethene	7.9	U	1.7	7.9
n-Hexane	7.9	U	2.1	7.9
1,1-Dichloroethane	1700	E	0.99	7.9
Methyl Ethyl Ketone	20	U	2.1	20
cis-1,2-Dichloroethene	7.9	U	1.4	7.9
1,2-Dichloroethene, Total	16	U	1.4	16
Chloroform	7.9	U	3.2	7.9
Tetrahydrofuran	200	U	55	200
1,1,1-Trichloroethane	2900	E	1.8	7.9
Cyclohexane	7.9	U	1.5	7.9
Carbon tetrachloride	1.6	U	1.3	1.6
2,2,4-Trimethylpentane	7.9	U	1.5	7.9
Benzene	7.9	U	1.7	7.9
1,2-Dichloroethane	7.9	U	1.6	7.9
n-Heptane	7.9	U	1.6	7.9
Trichloroethene	13		1.5	1.6
Methyl methacrylate	20	U	1.6	20
1,2-Dichloropropane	7.9	U	1.1	7.9
1,4-Dioxane	200	U	22	200
Bromodichloromethane	7.9	U	1.2	7.9
cis-1,3-Dichloropropene	7.9	U	0.91	7.9
methyl isobutyl ketone	20	U	2.0	20
Toluene	7.9	U	3.7	7.9
trans-1,3-Dichloropropene	7.9	U	1.3	7.9
1,1,2-Trichloroethane	7.9	U	1.5	7.9
Tetrachloroethene	6.2	J	0.91	7.9

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	20	U	2.3	20
Dibromochloromethane	7.9	U	1.7	7.9
1,2-Dibromoethane	7.9	U	1.5	7.9
Chlorobenzene	7.9	U	1.9	7.9
Ethylbenzene	7.9	U	1.3	7.9
m,p-Xylene	20	U	2.8	20
Xylene, o-	7.9	U	1.5	7.9
Xylene (total)	28	U	1.5	28
Styrene	7.9	U	1.7	7.9
Bromoform	7.9	U	2.2	7.9
Cumene	7.9	U	1.2	7.9
1,1,2,2-Tetrachloroethane	7.9	U	1.7	7.9
n-Propylbenzene	7.9	U	1.7	7.9
4-Ethyltoluene	7.9	U	1.7	7.9
1,3,5-Trimethylbenzene	7.9	U	1.5	7.9
2-Chlorotoluene	7.9	U	1.3	7.9
tert-Butylbenzene	7.9	U	1.7	7.9
1,2,4-Trimethylbenzene	7.9	U	1.7	7.9
sec-Butylbenzene	7.9	U	1.7	7.9
4-Isopropyltoluene	7.9	U	1.5	7.9
1,3-Dichlorobenzene	7.9	U	2.2	7.9
1,4-Dichlorobenzene	7.9	U	2.3	7.9
Benzyl chloride	7.9	U	2.1	7.9
n-Butylbenzene	7.9	U	1.9	7.9
1,2-Dichlorobenzene	7.9	U	2.2	7.9
1,2,4-Trichlorobenzene	20	U	2.7	20
Hexachlorobutadiene	7.9	U	3.2	7.9
Naphthalene	20	U	2.3	20

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	98	U	16	98
Freon 22	70	U	8.0	70
1,2-Dichlorotetrafluoroethane	55	U	10	55
Chloromethane	41	U	7.6	41
n-Butane	48		7.3	47
Vinyl chloride	4.0	U	3.2	4.0
1,3-Butadiene	17	U	7.8	17
Bromomethane	31	U	8.6	31
Chloroethane	730		8.9	52
Bromoethene(Vinyl Bromide)	35	U	7.6	35
Trichlorofluoromethane	350		8.4	44
Freon TF	61	U	23	61
1,1-Dichloroethene	14000	E	5.6	31
Acetone	470	U	81	470
Isopropyl alcohol	490	U	95	490
Carbon disulfide	62	U	5.3	62

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	62	U	8.4	62
Methylene Chloride	69	U	25	69
tert-Butyl alcohol	600	U	100	600
Methyl tert-butyl ether	28	U	13	28
trans-1,2-Dichloroethene	31	U	6.7	31
n-Hexane	28	U	7.5	28
1,1-Dichloroethane	7000	E	4.0	32
Methyl Ethyl Ketone	58	U	6.1	58
cis-1,2-Dichloroethene	31	U	5.5	31
1,2-Dichloroethene, Total	63	U	5.5	63
Chloroform	39	U	16	39
Tetrahydrofuran	580	U	160	580
1,1,1-Trichloroethane	16000	E	9.9	43
Cyclohexane	27	U	5.3	27
Carbon tetrachloride	9.9	U	8.0	9.9
2,2,4-Trimethylpentane	37	U	7.2	37
Benzene	25	U	5.3	25
1,2-Dichloroethane	32	U	6.6	32
n-Heptane	32	U	6.5	32
Trichloroethene	68		8.3	8.5
Methyl methacrylate	81	U	6.5	81
1,2-Dichloropropane	37	U	4.9	37
1,4-Dioxane	710	U	80	710
Bromodichloromethane	53	U	7.9	53
cis-1,3-Dichloropropene	36	U	4.1	36
methyl isobutyl ketone	81	U	8.1	81
Toluene	30	U	14	30
trans-1,3-Dichloropropene	36	U	6.1	36
1,1,2-Trichloroethane	43	U	8.4	43
Tetrachloroethene	42	J	6.2	54
Methyl Butyl Ketone (2-Hexanone)	81	U	9.2	81
Dibromochloromethane	67	U	15	67
1,2-Dibromoethane	61	U	12	61
Chlorobenzene	36	U	8.9	36
Ethylbenzene	34	U	5.7	34
m,p-Xylene	86	U	12	86
Xylene, o-	34	U	6.3	34
Xylene (total)	120	U	6.3	120
Styrene	34	U	7.2	34
Bromoform	82	U	23	82
Cumene	39	U	5.8	39
1,1,2,2-Tetrachloroethane	54	U	12	54
n-Propylbenzene	39	U	8.3	39
4-Ethyltoluene	39	U	8.5	39
1,3,5-Trimethylbenzene	39	U	7.6	39
2-Chlorotoluene	41	U	6.7	41

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_013.d
Dilution:	39.5			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 2057			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2057			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	43	U	9.5	43
1,2,4-Trimethylbenzene	39	U	8.4	39
sec-Butylbenzene	43	U	9.5	43
4-Isopropyltoluene	43	U	8.0	43
1,3-Dichlorobenzene	47	U	13	47
1,4-Dichlorobenzene	47	U	14	47
Benzyl chloride	41	U	11	41
n-Butylbenzene	43	U	10	43
1,2-Dichlorobenzene	47	U	13	47
1,2,4-Trichlorobenzene	150	U	20	150
Hexachlorobutadiene	84	U	35	84
Naphthalene	100	U	12	100

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	90	U	14	90
Freon 22	90	U	10	90
1,2-Dichlorotetrafluoroethane	36	U	6.8	36
Chloromethane	90	U	17	90
n-Butane	22	J D	14	90
Vinyl chloride	7.2	U	5.8	7.2
1,3-Butadiene	36	U	16	36
Bromomethane	36	U	10	36
Chloroethane	320	D	15	90
Bromoethene(Vinyl Bromide)	36	U	7.9	36
Trichlorofluoromethane	75	D	6.8	36
Freon TF	36	U	14	36
1,1-Dichloroethene	4400	D	6.5	36
Acetone	900	U	150	900
Isopropyl alcohol	900	U	180	900
Carbon disulfide	90	U	7.7	90
3-Chloropropene	90	U	12	90
Methylene Chloride	90	U	32	90
tert-Butyl alcohol	900	U	150	900
Methyl tert-butyl ether	36	U	16	36
trans-1,2-Dichloroethene	36	U	7.7	36
n-Hexane	36	U	9.7	36
1,1-Dichloroethane	2000	D	4.5	36
Methyl Ethyl Ketone	90	U	9.4	90
cis-1,2-Dichloroethene	36	U	6.3	36
1,2-Dichloroethene, Total	72	U	6.3	72
Chloroform	36	U	15	36
Tetrahydrofuran	900	U	250	900
1,1,1-Trichloroethane	3600	D	8.3	36
Cyclohexane	36	U	7.0	36
Carbon tetrachloride	7.2	U	5.8	7.2
2,2,4-Trimethylpentane	36	U	7.0	36
Benzene	36	U	7.6	36
1,2-Dichloroethane	36	U	7.4	36
n-Heptane	36	U	7.2	36
Trichloroethene	14	D	7.0	7.2
Methyl methacrylate	90	U	7.2	90
1,2-Dichloropropane	36	U	4.9	36
1,4-Dioxane	900	U	100	900
Bromodichloromethane	36	U	5.4	36
cis-1,3-Dichloropropene	36	U	4.1	36
methyl isobutyl ketone	90	U	9.0	90
Toluene	36	U	17	36
trans-1,3-Dichloropropene	36	U	6.1	36
1,1,2-Trichloroethane	36	U	7.0	36
Tetrachloroethene	5.9	J D	4.1	36

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	90	U	10	90
Dibromochloromethane	36	U	7.9	36
1,2-Dibromoethane	36	U	7.0	36
Chlorobenzene	36	U	8.8	36
Ethylbenzene	36	U	5.9	36
m,p-Xylene	90	U	13	90
Xylene, o-	36	U	6.7	36
Xylene (total)	130	U	6.7	130
Styrene	36	U	7.7	36
Bromoform	36	U	10	36
Cumene	36	U	5.4	36
1,1,2,2-Tetrachloroethane	36	U	7.9	36
n-Propylbenzene	36	U	7.7	36
4-Ethyltoluene	36	U	7.9	36
1,3,5-Trimethylbenzene	36	U	7.0	36
2-Chlorotoluene	36	U	5.9	36
tert-Butylbenzene	36	U	7.9	36
1,2,4-Trimethylbenzene	36	U	7.7	36
sec-Butylbenzene	36	U	7.9	36
4-Isopropyltoluene	36	U	6.7	36
1,3-Dichlorobenzene	36	U	9.9	36
1,4-Dichlorobenzene	36	U	10	36
Benzyl chloride	36	U	9.5	36
n-Butylbenzene	36	U	8.5	36
1,2-Dichlorobenzene	36	U	9.9	36
1,2,4-Trichlorobenzene	90	U	12	90
Hexachlorobutadiene	36	U	15	36
Naphthalene	90	U	10	90

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	450	U	71	450
Freon 22	320	U	36	320
1,2-Dichlorotetrafluoroethane	250	U	48	250
Chloromethane	190	U	35	190
n-Butane	52	J D	33	210
Vinyl chloride	18	U	15	18
1,3-Butadiene	80	U	35	80
Bromomethane	140	U	39	140
Chloroethane	840	D	40	240
Bromoethene(Vinyl Bromide)	160	U	35	160
Trichlorofluoromethane	420	D	38	200
Freon TF	280	U	100	280
1,1-Dichloroethene	17000	D	26	140
Acetone	2100	U	370	2100
Isopropyl alcohol	2200	U	430	2200
Carbon disulfide	280	U	24	280

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS08-092315

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	280	U	38	280
Methylene Chloride	310	U	110	310
tert-Butyl alcohol	2700	U	460	2700
Methyl tert-butyl ether	130	U	58	130
trans-1,2-Dichloroethene	140	U	31	140
n-Hexane	130	U	34	130
1,1-Dichloroethane	8200	D	18	150
Methyl Ethyl Ketone	270	U	28	270
cis-1,2-Dichloroethene	140	U	25	140
1,2-Dichloroethene, Total	290	U	25	290
Chloroform	180	U	72	180
Tetrahydrofuran	2700	U	740	2700
1,1,1-Trichloroethane	20000	D	45	200
Cyclohexane	120	U	24	120
Carbon tetrachloride	45	U	36	45
2,2,4-Trimethylpentane	170	U	33	170
Benzene	120	U	24	120
1,2-Dichloroethane	150	U	30	150
n-Heptane	150	U	30	150
Trichloroethene	76	D	38	39
Methyl methacrylate	370	U	29	370
1,2-Dichloropropane	170	U	22	170
1,4-Dioxane	3200	U	360	3200
Bromodichloromethane	240	U	36	240
cis-1,3-Dichloropropene	160	U	19	160
methyl isobutyl ketone	370	U	37	370
Toluene	140	U	63	140
trans-1,3-Dichloropropene	160	U	28	160
1,1,2-Trichloroethane	200	U	38	200
Tetrachloroethene	40	J D	28	240
Methyl Butyl Ketone (2-Hexanone)	370	U	42	370
Dibromochloromethane	310	U	67	310
1,2-Dibromoethane	280	U	54	280
Chlorobenzene	170	U	41	170
Ethylbenzene	160	U	26	160
m,p-Xylene	390	U	55	390
Xylene, o-	160	U	29	160
Xylene (total)	550	U	29	550
Styrene	150	U	33	150
Bromoform	370	U	100	370
Cumene	180	U	27	180
1,1,2,2-Tetrachloroethane	250	U	54	250
n-Propylbenzene	180	U	38	180
4-Ethyltoluene	180	U	39	180
1,3,5-Trimethylbenzene	180	U	35	180
2-Chlorotoluene	190	U	31	190

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: **FR-SS08-092315**

Lab Sample ID: 200-29972-15 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_014.d
Dilution:	180			Initial Weight/Volume:	44 mL
Analysis Date:	09/30/2015 2145	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2145			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	200	U	43	200
1,2,4-Trimethylbenzene	180	U	38	180
sec-Butylbenzene	200	U	43	200
4-Isopropyltoluene	200	U	37	200
1,3-Dichlorobenzene	220	U	60	220
1,4-Dichlorobenzene	220	U	62	220
Benzyl chloride	190	U	49	190
n-Butylbenzene	200	U	46	200
1,2-Dichlorobenzene	220	U	60	220
1,2,4-Trichlorobenzene	670	U	91	670
Hexachlorobutadiene	380	U	160	380
Naphthalene	470	U	54	470

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.64		0.080	0.50
Freon 22	0.59		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.56		0.093	0.50
n-Butane	5.2		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	58	E	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.68		0.036	0.20
Acetone	12		0.86	5.0
Isopropyl alcohol	7.2		0.98	5.0
Carbon disulfide	0.28	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.33	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.69		0.054	0.20
1,1-Dichloroethane	0.23		0.025	0.20
Methyl Ethyl Ketone	1.9		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.49		0.046	0.20
Cyclohexane	0.19	J	0.039	0.20
Carbon tetrachloride	0.093		0.032	0.040
2,2,4-Trimethylpentane	0.32		0.039	0.20
Benzene	0.56		0.042	0.20
1,2-Dichloroethane	0.53		0.041	0.20
n-Heptane	0.20		0.040	0.20
Trichloroethene	0.042		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.13	J	0.050	0.50
Toluene	1.5		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.054	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.20	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20		0.033	0.20
m,p-Xylene	0.72		0.071	0.50
Xylene, o-	0.29		0.037	0.20
Xylene (total)	1.0		0.037	0.70
Styrene	0.14	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.039	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.045	J	0.043	0.20
4-Ethyltoluene	0.067	J	0.044	0.20
1,3,5-Trimethylbenzene	0.071	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.23		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.085	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.074	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.24	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.2		0.40	2.5
Freon 22	2.1		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	12		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	320	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	2.7		0.14	0.79
Acetone	29		2.0	12
Isopropyl alcohol	18		2.4	12
Carbon disulfide	0.89	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.2	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	2.4		0.19	0.70
1,1-Dichloroethane	0.91		0.10	0.81
Methyl Ethyl Ketone	5.7		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	2.6		0.25	1.1
Cyclohexane	0.66	J	0.13	0.69
Carbon tetrachloride	0.59		0.20	0.25
2,2,4-Trimethylpentane	1.5		0.18	0.93
Benzene	1.8		0.13	0.64
1,2-Dichloroethane	2.1		0.17	0.81
n-Heptane	0.81		0.16	0.82
Trichloroethene	0.22		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.54	J	0.20	2.0
Toluene	5.6		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.37	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.84	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.85		0.14	0.87
m,p-Xylene	3.1		0.31	2.2
Xylene, o-	1.2		0.16	0.87
Xylene (total)	4.4		0.16	3.0
Styrene	0.60	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.19	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.22	J	0.21	0.98
4-Ethyltoluene	0.33	J	0.22	0.98
1,3,5-Trimethylbenzene	0.35	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_009.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1743			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1743			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.1		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.47	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.44	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	1.2	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.76	J D	0.24	1.5
Freon 22	0.73	J D	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	0.67	J D	0.28	1.5
n-Butane	6.5	D	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.25	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	72	D	0.11	0.60
Freon TF	0.60	U	0.22	0.60
1,1-Dichloroethene	0.80	D	0.11	0.60
Acetone	14	J D	2.6	15
Isopropyl alcohol	8.1	J D	2.9	15
Carbon disulfide	0.31	J D	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.5	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	0.69	D	0.16	0.60
1,1-Dichloroethane	0.23	J D	0.075	0.60
Methyl Ethyl Ketone	2.0	D	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.10	0.60
1,2-Dichloroethene, Total	1.2	U	0.10	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	0.56	J D	0.14	0.60
Cyclohexane	0.60	U	0.12	0.60
Carbon tetrachloride	0.11	J D	0.096	0.12
2,2,4-Trimethylpentane	0.31	J D	0.12	0.60
Benzene	0.63	D	0.13	0.60
1,2-Dichloroethane	0.62	D	0.12	0.60
n-Heptane	0.60	U	0.12	0.60
Trichloroethene	0.12	U	0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	1.5	U	0.15	1.5
Toluene	1.5	D	0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.60	U	0.069	0.60

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	0.21	J D	0.099	0.60
m,p-Xylene	0.68	J D	0.21	1.5
Xylene, o-	0.27	J D	0.11	0.60
Xylene (total)	0.95	J D	0.11	2.1
Styrene	0.13	J D	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.60	U	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.60	U	0.13	0.60
4-Ethyltoluene	0.60	U	0.13	0.60
1,3,5-Trimethylbenzene	0.60	U	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.21	J D	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.16	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.16	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	0.18	J D	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.8	J D	1.2	7.4
Freon 22	2.6	J D	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.79	4.2
Chloromethane	1.4	J D	0.57	3.1
n-Butane	16	D	0.55	3.6
Vinyl chloride	0.31	U	0.24	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	3.9	U	0.67	3.9
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	400	D	0.64	3.4
Freon TF	4.6	U	1.7	4.6
1,1-Dichloroethene	3.2	D	0.43	2.4
Acetone	34	J D	6.1	36
Isopropyl alcohol	20	J D	7.2	37
Carbon disulfide	0.98	J D	0.40	4.7

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	2.4	D	0.57	2.1
1,1-Dichloroethane	0.95	J D	0.30	2.4
Methyl Ethyl Ketone	5.9	D	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.41	2.4
1,2-Dichloroethene, Total	4.7	U	0.41	4.7
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	3.1	J D	0.75	3.3
Cyclohexane	2.1	U	0.40	2.1
Carbon tetrachloride	0.67	J D	0.60	0.75
2,2,4-Trimethylpentane	1.5	J D	0.54	2.8
Benzene	2.0	D	0.40	1.9
1,2-Dichloroethane	2.5	D	0.50	2.4
n-Heptane	2.5	U	0.49	2.5
Trichloroethene	0.64	U	0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.0	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	6.1	U	0.61	6.1
Toluene	5.6	D	1.0	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	4.1	U	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.67	2.8
Ethylbenzene	0.93	J D	0.43	2.6
m,p-Xylene	3.0	J D	0.92	6.5
Xylene, o-	1.2	J D	0.48	2.6
Xylene (total)	4.1	J D	0.48	9.1
Styrene	0.56	J D	0.55	2.5
Bromoform	6.2	U	1.7	6.2
Cumene	2.9	U	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.90	4.1
n-Propylbenzene	2.9	U	0.63	2.9
4-Ethyltoluene	2.9	U	0.65	2.9
1,3,5-Trimethylbenzene	2.9	U	0.57	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA08-092315

Lab Sample ID: 200-29972-16 Date Sampled: 09/23/2015 1809
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_010.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	09/30/2015 1831	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1831			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	1.0	J D	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	0.94	J D	0.89	7.8

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS09-092315

Lab Sample ID: 200-29972-17 Date Sampled: 09/23/2015 1827
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.82	J	0.16	1.0
Freon 22	0.36	J	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	1.0	U	0.19	1.0
n-Butane	0.99	J	0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	46		0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.28	J	0.072	0.40
Acetone	6.0	J	1.7	10
Isopropyl alcohol	10	U	2.0	10
Carbon disulfide	4.5		0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	0.42	J	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.81		0.11	0.40
1,1-Dichloroethane	1.6		0.050	0.40
Methyl Ethyl Ketone	0.79	J	0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	51		0.092	0.40
Cyclohexane	1.2		0.078	0.40
Carbon tetrachloride	0.080	U	0.064	0.080
2,2,4-Trimethylpentane	0.18	J	0.078	0.40
Benzene	0.33	J	0.084	0.40
1,2-Dichloroethane	0.40	U	0.082	0.40
n-Heptane	0.36	J	0.080	0.40
Trichloroethene	10		0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	0.38	J	0.10	1.0
Toluene	0.82		0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0.078	0.40
Tetrachloroethene	0.37	J	0.046	0.40

Client: O'Brien & Gere Inc of North America | Job Number: 200-29972-1

Client Sample ID: **FR-SS09-092315**

Lab Sample ID: 200-29972-17 | Date Sampled: 09/23/2015 1827
Client Matrix: Air | Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.11	J	0.066	0.40
m,p-Xylene	0.60	J	0.14	1.0
Xylene, o-	0.16	J	0.074	0.40
Xylene (total)	0.76	J	0.074	1.4
Styrene	0.40	U	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.098	J	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.40	U	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.0	J	0.79	4.9
Freon 22	1.3	J	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	2.1	U	0.38	2.1
n-Butane	2.3	J	0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	260		0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	1.1	J	0.29	1.6
Acetone	14	J	4.1	24
Isopropyl alcohol	25	U	4.8	25
Carbon disulfide	14		0.27	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS09-092315

Lab Sample ID: 200-29972-17 Date Sampled: 09/23/2015 1827
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	1.5	J	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	2.8		0.38	1.4
1,1-Dichloroethane	6.5		0.20	1.6
Methyl Ethyl Ketone	2.3	J	0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	280		0.50	2.2
Cyclohexane	4.2		0.27	1.4
Carbon tetrachloride	0.50	U	0.40	0.50
2,2,4-Trimethylpentane	0.83	J	0.36	1.9
Benzene	1.1	J	0.27	1.3
1,2-Dichloroethane	1.6	U	0.33	1.6
n-Heptane	1.5	J	0.33	1.6
Trichloroethene	55		0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	1.6	J	0.41	4.1
Toluene	3.1		0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	2.5	J	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.47	J	0.29	1.7
m,p-Xylene	2.6	J	0.62	4.3
Xylene, o-	0.70	J	0.32	1.7
Xylene (total)	3.3	J	0.32	6.1
Styrene	1.7	U	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	0.48	J	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: **FR-SS09-092315**

Lab Sample ID: 200-29972-17 Date Sampled: 09/23/2015 1827
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_23.D
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	10/06/2015 0244			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0244			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	2.0	U	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.1		0.080	0.50
Freon 22	1.0		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.95		0.093	0.50
n-Butane	9.1		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	87	E	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	1.1		0.036	0.20
Acetone	21		0.86	5.0
Isopropyl alcohol	12		0.98	5.0
Carbon disulfide	0.47	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.53		0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	1.1		0.054	0.20
1,1-Dichloroethane	0.37		0.025	0.20
Methyl Ethyl Ketone	2.6		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	1.1		0.046	0.20
Cyclohexane	0.27		0.039	0.20
Carbon tetrachloride	0.12		0.032	0.040
2,2,4-Trimethylpentane	0.46		0.039	0.20
Benzene	0.85		0.042	0.20
1,2-Dichloroethane	0.97		0.041	0.20
n-Heptane	0.35		0.040	0.20
Trichloroethene	0.046		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.16	J	0.050	0.50
Toluene	1.8		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.077	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.14	J	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.23		0.033	0.20
m,p-Xylene	0.82		0.071	0.50
Xylene, o-	0.29		0.037	0.20
Xylene (total)	1.1		0.037	0.70
Styrene	0.18	J	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.040	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.047	J	0.043	0.20
4-Ethyltoluene	0.083	J	0.044	0.20
1,3,5-Trimethylbenzene	0.11	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.36		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.13	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.073	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.13	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.2		0.40	2.5
Freon 22	3.5		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	2.0		0.19	1.0
n-Butane	22		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	490	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	4.6		0.14	0.79
Acetone	49		2.0	12
Isopropyl alcohol	30		2.4	12
Carbon disulfide	1.5	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.8		0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	3.8		0.19	0.70
1,1-Dichloroethane	1.5		0.10	0.81
Methyl Ethyl Ketone	7.6		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	5.8		0.25	1.1
Cyclohexane	0.92		0.13	0.69
Carbon tetrachloride	0.73		0.20	0.25
2,2,4-Trimethylpentane	2.2		0.18	0.93
Benzene	2.7		0.13	0.64
1,2-Dichloroethane	3.9		0.17	0.81
n-Heptane	1.4		0.16	0.82
Trichloroethene	0.25		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	0.67	J	0.20	2.0
Toluene	6.6		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.52	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	0.56	J	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.99		0.14	0.87
m,p-Xylene	3.6		0.31	2.2
Xylene, o-	1.3		0.16	0.87
Xylene (total)	4.8		0.16	3.0
Styrene	0.77	J	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.20	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.23	J	0.21	0.98
4-Ethyltoluene	0.41	J	0.22	0.98
1,3,5-Trimethylbenzene	0.55	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_021.d
Dilution:	1.0			Initial Weight/Volume:	396 mL
Analysis Date:	09/30/2015 0302			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0302			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.8		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.74	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.44	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.68	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.72	J D	0.32	2.0
Freon 22	0.67	J D	0.23	2.0
1,2-Dichlorotetrafluoroethane	0.80	U	0.15	0.80
Chloromethane	0.65	J D	0.37	2.0
n-Butane	5.4	D	0.31	2.0
Vinyl chloride	0.16	U	0.13	0.16
1,3-Butadiene	0.80	U	0.36	0.80
Bromomethane	0.80	U	0.22	0.80
Chloroethane	2.0	U	0.34	2.0
Bromoethene(Vinyl Bromide)	0.80	U	0.18	0.80
Trichlorofluoromethane	63	D	0.15	0.80
Freon TF	0.80	U	0.30	0.80
1,1-Dichloroethene	0.79	J D	0.14	0.80
Acetone	14	J D	3.4	20
Isopropyl alcohol	7.0	J D	3.9	20
Carbon disulfide	0.33	J D	0.17	2.0
3-Chloropropene	2.0	U	0.27	2.0
Methylene Chloride	2.0	U	0.72	2.0
tert-Butyl alcohol	20	U	3.4	20
Methyl tert-butyl ether	0.80	U	0.36	0.80
trans-1,2-Dichloroethene	0.80	U	0.17	0.80
n-Hexane	0.59	J D	0.22	0.80
1,1-Dichloroethane	0.80	U	0.10	0.80
Methyl Ethyl Ketone	1.4	J D	0.21	2.0
cis-1,2-Dichloroethene	0.80	U	0.14	0.80
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.80	U	0.33	0.80
Tetrahydrofuran	20	U	5.6	20
1,1,1-Trichloroethane	0.76	J D	0.18	0.80
Cyclohexane	0.80	U	0.16	0.80
Carbon tetrachloride	0.16	U	0.13	0.16
2,2,4-Trimethylpentane	0.25	J D	0.16	0.80
Benzene	0.57	J D	0.17	0.80
1,2-Dichloroethane	0.67	J D	0.16	0.80
n-Heptane	0.80	U	0.16	0.80
Trichloroethene	0.16	U	0.16	0.16
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.80	U	0.11	0.80
1,4-Dioxane	20	U	2.2	20
Bromodichloromethane	0.80	U	0.12	0.80
cis-1,3-Dichloropropene	0.80	U	0.092	0.80
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	1.2	D	0.37	0.80
trans-1,3-Dichloropropene	0.80	U	0.14	0.80
1,1,2-Trichloroethane	0.80	U	0.16	0.80
Tetrachloroethene	0.80	U	0.092	0.80

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	0.80	U	0.18	0.80
1,2-Dibromoethane	0.80	U	0.16	0.80
Chlorobenzene	0.80	U	0.20	0.80
Ethylbenzene	0.19	J D	0.13	0.80
m,p-Xylene	0.63	J D	0.28	2.0
Xylene, o-	0.22	J D	0.15	0.80
Xylene (total)	0.85	J D	0.15	2.8
Styrene	0.80	U	0.17	0.80
Bromoform	0.80	U	0.22	0.80
Cumene	0.80	U	0.12	0.80
1,1,2,2-Tetrachloroethane	0.80	U	0.18	0.80
n-Propylbenzene	0.80	U	0.17	0.80
4-Ethyltoluene	0.80	U	0.18	0.80
1,3,5-Trimethylbenzene	0.80	U	0.16	0.80
2-Chlorotoluene	0.80	U	0.13	0.80
tert-Butylbenzene	0.80	U	0.18	0.80
1,2,4-Trimethylbenzene	0.23	J D	0.17	0.80
sec-Butylbenzene	0.80	U	0.18	0.80
4-Isopropyltoluene	0.80	U	0.15	0.80
1,3-Dichlorobenzene	0.80	U	0.22	0.80
1,4-Dichlorobenzene	0.80	U	0.23	0.80
Benzyl chloride	0.80	U	0.21	0.80
n-Butylbenzene	0.80	U	0.19	0.80
1,2-Dichlorobenzene	0.80	U	0.22	0.80
1,2,4-Trichlorobenzene	2.0	U	0.27	2.0
Hexachlorobutadiene	0.80	U	0.33	0.80
Naphthalene	2.0	U	0.23	2.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.6	J D	1.6	9.9
Freon 22	2.4	J D	0.81	7.1
1,2-Dichlorotetrafluoroethane	5.6	U	1.1	5.6
Chloromethane	1.3	J D	0.77	4.1
n-Butane	13	D	0.74	4.8
Vinyl chloride	0.41	U	0.33	0.41
1,3-Butadiene	1.8	U	0.79	1.8
Bromomethane	3.1	U	0.87	3.1
Chloroethane	5.3	U	0.90	5.3
Bromoethene(Vinyl Bromide)	3.5	U	0.77	3.5
Trichlorofluoromethane	360	D	0.85	4.5
Freon TF	6.1	U	2.3	6.1
1,1-Dichloroethene	3.1	J D	0.57	3.2
Acetone	33	J D	8.2	48
Isopropyl alcohol	17	J D	9.6	49
Carbon disulfide	1.0	J D	0.54	6.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	6.3	U	0.85	6.3
Methylene Chloride	6.9	U	2.5	6.9
tert-Butyl alcohol	61	U	10	61
Methyl tert-butyl ether	2.9	U	1.3	2.9
trans-1,2-Dichloroethene	3.2	U	0.68	3.2
n-Hexane	2.1	J D	0.76	2.8
1,1-Dichloroethane	3.2	U	0.40	3.2
Methyl Ethyl Ketone	4.2	J D	0.61	5.9
cis-1,2-Dichloroethene	3.2	U	0.56	3.2
1,2-Dichloroethene, Total	6.3	U	0.56	6.3
Chloroform	3.9	U	1.6	3.9
Tetrahydrofuran	59	U	17	59
1,1,1-Trichloroethane	4.1	J D	1.0	4.4
Cyclohexane	2.8	U	0.54	2.8
Carbon tetrachloride	1.0	U	0.81	1.0
2,2,4-Trimethylpentane	1.2	J D	0.73	3.7
Benzene	1.8	J D	0.54	2.6
1,2-Dichloroethane	2.7	J D	0.66	3.2
n-Heptane	3.3	U	0.66	3.3
Trichloroethene	0.86	U	0.84	0.86
Methyl methacrylate	8.2	U	0.66	8.2
1,2-Dichloropropane	3.7	U	0.50	3.7
1,4-Dioxane	72	U	8.1	72
Bromodichloromethane	5.4	U	0.80	5.4
cis-1,3-Dichloropropene	3.6	U	0.42	3.6
methyl isobutyl ketone	8.2	U	0.82	8.2
Toluene	4.6	D	1.4	3.0
trans-1,3-Dichloropropene	3.6	U	0.62	3.6
1,1,2-Trichloroethane	4.4	U	0.85	4.4
Tetrachloroethene	5.4	U	0.62	5.4
Methyl Butyl Ketone (2-Hexanone)	8.2	U	0.93	8.2
Dibromochloromethane	6.8	U	1.5	6.8
1,2-Dibromoethane	6.1	U	1.2	6.1
Chlorobenzene	3.7	U	0.90	3.7
Ethylbenzene	0.82	J D	0.57	3.5
m,p-Xylene	2.7	J D	1.2	8.7
Xylene, o-	0.94	J D	0.64	3.5
Xylene (total)	3.7	J D	0.64	12
Styrene	3.4	U	0.73	3.4
Bromoform	8.3	U	2.3	8.3
Cumene	3.9	U	0.59	3.9
1,1,2,2-Tetrachloroethane	5.5	U	1.2	5.5
n-Propylbenzene	3.9	U	0.85	3.9
4-Ethyltoluene	3.9	U	0.87	3.9
1,3,5-Trimethylbenzene	3.9	U	0.77	3.9
2-Chlorotoluene	4.1	U	0.68	4.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA09-092315

Lab Sample ID: 200-29972-18 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_011.d
Dilution:	4.0			Initial Weight/Volume:	99 mL
Analysis Date:	09/30/2015 1919	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1919			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	4.4	U	0.97	4.4
1,2,4-Trimethylbenzene	1.1	J D	0.85	3.9
sec-Butylbenzene	4.4	U	0.97	4.4
4-Isopropyltoluene	4.4	U	0.81	4.4
1,3-Dichlorobenzene	4.8	U	1.3	4.8
1,4-Dichlorobenzene	4.8	U	1.4	4.8
Benzyl chloride	4.1	U	1.1	4.1
n-Butylbenzene	4.4	U	1.0	4.4
1,2-Dichlorobenzene	4.8	U	1.3	4.8
1,2,4-Trichlorobenzene	15	U	2.0	15
Hexachlorobutadiene	8.5	U	3.5	8.5
Naphthalene	10	U	1.2	10

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SSDUP-092315

Lab Sample ID: 200-29972-19 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.86	J	0.24	1.5
Freon 22	0.37	J	0.17	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.11	0.60
Chloromethane	1.5	U	0.28	1.5
n-Butane	1.2	J	0.23	1.5
Vinyl chloride	0.12	U	0.096	0.12
1,3-Butadiene	0.60	U	0.27	0.60
Bromomethane	0.60	U	0.17	0.60
Chloroethane	1.5	U	0.26	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.13	0.60
Trichlorofluoromethane	48		0.11	0.60
Freon TF	0.39	J	0.23	0.60
1,1-Dichloroethene	0.19	J	0.11	0.60
Acetone	4.0	J	2.6	15
Isopropyl alcohol	15	U	2.9	15
Carbon disulfide	0.29	J	0.13	1.5
3-Chloropropene	1.5	U	0.20	1.5
Methylene Chloride	1.5	U	0.54	1.5
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.60	U	0.27	0.60
trans-1,2-Dichloroethene	0.60	U	0.13	0.60
n-Hexane	0.83		0.16	0.60
1,1-Dichloroethane	1.6		0.075	0.60
Methyl Ethyl Ketone	1.5	U	0.16	1.5
cis-1,2-Dichloroethene	0.60	U	0.11	0.60
1,2-Dichloroethene, Total	1.2	U	0.11	1.2
Chloroform	0.60	U	0.25	0.60
Tetrahydrofuran	15	U	4.2	15
1,1,1-Trichloroethane	53		0.14	0.60
Cyclohexane	1.3		0.12	0.60
Carbon tetrachloride	0.12	U	0.096	0.12
2,2,4-Trimethylpentane	0.60	U	0.12	0.60
Benzene	0.33	J	0.13	0.60
1,2-Dichloroethane	0.60	U	0.12	0.60
n-Heptane	0.43	J	0.12	0.60
Trichloroethene	11		0.12	0.12
Methyl methacrylate	1.5	U	0.12	1.5
1,2-Dichloropropane	0.60	U	0.081	0.60
1,4-Dioxane	15	U	1.7	15
Bromodichloromethane	0.60	U	0.090	0.60
cis-1,3-Dichloropropene	0.60	U	0.069	0.60
methyl isobutyl ketone	0.18	J	0.15	1.5
Toluene	0.78		0.28	0.60
trans-1,3-Dichloropropene	0.60	U	0.10	0.60
1,1,2-Trichloroethane	0.60	U	0.12	0.60
Tetrachloroethene	0.39	J	0.069	0.60

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SSDUP-092315

Lab Sample ID: 200-29972-19 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.5	U	0.17	1.5
Dibromochloromethane	0.60	U	0.13	0.60
1,2-Dibromoethane	0.60	U	0.12	0.60
Chlorobenzene	0.60	U	0.15	0.60
Ethylbenzene	0.10	J	0.099	0.60
m,p-Xylene	0.58	J	0.21	1.5
Xylene, o-	0.15	J	0.11	0.60
Xylene (total)	0.73	J	0.11	2.1
Styrene	0.60	U	0.13	0.60
Bromoform	0.60	U	0.17	0.60
Cumene	0.098	J	0.090	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.13	0.60
n-Propylbenzene	0.60	U	0.13	0.60
4-Ethyltoluene	0.60	U	0.13	0.60
1,3,5-Trimethylbenzene	0.60	U	0.12	0.60
2-Chlorotoluene	0.60	U	0.099	0.60
tert-Butylbenzene	0.60	U	0.13	0.60
1,2,4-Trimethylbenzene	0.60	U	0.13	0.60
sec-Butylbenzene	0.60	U	0.13	0.60
4-Isopropyltoluene	0.60	U	0.11	0.60
1,3-Dichlorobenzene	0.60	U	0.17	0.60
1,4-Dichlorobenzene	0.60	U	0.17	0.60
Benzyl chloride	0.60	U	0.16	0.60
n-Butylbenzene	0.60	U	0.14	0.60
1,2-Dichlorobenzene	0.60	U	0.17	0.60
1,2,4-Trichlorobenzene	1.5	U	0.20	1.5
Hexachlorobutadiene	0.60	U	0.25	0.60
Naphthalene	1.5	U	0.17	1.5

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.2	J	1.2	7.4
Freon 22	1.3	J	0.60	5.3
1,2-Dichlorotetrafluoroethane	4.2	U	0.80	4.2
Chloromethane	3.1	U	0.58	3.1
n-Butane	2.9	J	0.56	3.6
Vinyl chloride	0.31	U	0.25	0.31
1,3-Butadiene	1.3	U	0.59	1.3
Bromomethane	2.3	U	0.65	2.3
Chloroethane	4.0	U	0.67	4.0
Bromoethene(Vinyl Bromide)	2.6	U	0.58	2.6
Trichlorofluoromethane	270		0.64	3.4
Freon TF	3.0	J	1.7	4.6
1,1-Dichloroethene	0.75	J	0.43	2.4
Acetone	9.4	J	6.1	36
Isopropyl alcohol	37	U	7.2	37
Carbon disulfide	0.89	J	0.40	4.7

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SSDUP-092315

Lab Sample ID: 200-29972-19 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	4.7	U	0.64	4.7
Methylene Chloride	5.2	U	1.9	5.2
tert-Butyl alcohol	45	U	7.7	45
Methyl tert-butyl ether	2.2	U	0.96	2.2
trans-1,2-Dichloroethene	2.4	U	0.51	2.4
n-Hexane	2.9		0.57	2.1
1,1-Dichloroethane	6.5		0.30	2.4
Methyl Ethyl Ketone	4.4	U	0.46	4.4
cis-1,2-Dichloroethene	2.4	U	0.42	2.4
1,2-Dichloroethene, Total	4.8	U	0.42	4.8
Chloroform	2.9	U	1.2	2.9
Tetrahydrofuran	44	U	12	44
1,1,1-Trichloroethane	290		0.75	3.3
Cyclohexane	4.4		0.40	2.1
Carbon tetrachloride	0.75	U	0.60	0.75
2,2,4-Trimethylpentane	2.8	U	0.55	2.8
Benzene	1.0	J	0.40	1.9
1,2-Dichloroethane	2.4	U	0.50	2.4
n-Heptane	1.8	J	0.49	2.5
Trichloroethene	57		0.63	0.64
Methyl methacrylate	6.1	U	0.49	6.1
1,2-Dichloropropane	2.8	U	0.37	2.8
1,4-Dioxane	54	U	6.1	54
Bromodichloromethane	4.0	U	0.60	4.0
cis-1,3-Dichloropropene	2.7	U	0.31	2.7
methyl isobutyl ketone	0.76	J	0.61	6.1
Toluene	3.0		1.1	2.3
trans-1,3-Dichloropropene	2.7	U	0.46	2.7
1,1,2-Trichloroethane	3.3	U	0.64	3.3
Tetrachloroethene	2.7	J	0.47	4.1
Methyl Butyl Ketone (2-Hexanone)	6.1	U	0.70	6.1
Dibromochloromethane	5.1	U	1.1	5.1
1,2-Dibromoethane	4.6	U	0.90	4.6
Chlorobenzene	2.8	U	0.68	2.8
Ethylbenzene	0.44	J	0.43	2.6
m,p-Xylene	2.5	J	0.92	6.5
Xylene, o-	0.66	J	0.48	2.6
Xylene (total)	3.2	J	0.48	9.1
Styrene	2.6	U	0.55	2.6
Bromoform	6.2	U	1.7	6.2
Cumene	0.48	J	0.44	2.9
1,1,2,2-Tetrachloroethane	4.1	U	0.91	4.1
n-Propylbenzene	2.9	U	0.63	2.9
4-Ethyltoluene	2.9	U	0.65	2.9
1,3,5-Trimethylbenzene	2.9	U	0.58	2.9
2-Chlorotoluene	3.1	U	0.51	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SSDUP-092315

Lab Sample ID: 200-29972-19 Date Sampled: 09/23/2015 1831
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_24.D
Dilution:	3.0			Initial Weight/Volume:	110 mL
Analysis Date:	10/06/2015 0333			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0333			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	3.3	U	0.72	3.3
1,2,4-Trimethylbenzene	2.9	U	0.63	2.9
sec-Butylbenzene	3.3	U	0.72	3.3
4-Isopropyltoluene	3.3	U	0.61	3.3
1,3-Dichlorobenzene	3.6	U	0.99	3.6
1,4-Dichlorobenzene	3.6	U	1.0	3.6
Benzyl chloride	3.1	U	0.82	3.1
n-Butylbenzene	3.3	U	0.77	3.3
1,2-Dichlorobenzene	3.6	U	0.99	3.6
1,2,4-Trichlorobenzene	11	U	1.5	11
Hexachlorobutadiene	6.4	U	2.6	6.4
Naphthalene	7.9	U	0.90	7.9

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.2		0.16	1.0
Freon 22	0.34	J	0.11	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.076	0.40
Chloromethane	0.19	J	0.19	1.0
n-Butane	1.2		0.16	1.0
Vinyl chloride	0.080	U	0.064	0.080
1,3-Butadiene	0.40	U	0.18	0.40
Bromomethane	0.40	U	0.11	0.40
Chloroethane	1.0	U	0.17	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.088	0.40
Trichlorofluoromethane	50		0.076	0.40
Freon TF	0.40	U	0.15	0.40
1,1-Dichloroethene	0.40	U	0.072	0.40
Acetone	8.9	J	1.7	10
Isopropyl alcohol	10	U	2.0	10
Carbon disulfide	0.62	J	0.086	1.0
3-Chloropropene	1.0	U	0.14	1.0
Methylene Chloride	0.45	J	0.36	1.0
tert-Butyl alcohol	10	U	1.7	10
Methyl tert-butyl ether	0.40	U	0.18	0.40
trans-1,2-Dichloroethene	0.40	U	0.086	0.40
n-Hexane	0.66		0.11	0.40
1,1-Dichloroethane	0.40	U	0.050	0.40
Methyl Ethyl Ketone	1.1		0.10	1.0
cis-1,2-Dichloroethene	0.40	U	0.070	0.40
1,2-Dichloroethene, Total	0.80	U	0.070	0.80
Chloroform	0.40	U	0.16	0.40
Tetrahydrofuran	10	U	2.8	10
1,1,1-Trichloroethane	6.3		0.092	0.40
Cyclohexane	0.22	J	0.078	0.40
Carbon tetrachloride	0.080	U	0.064	0.080
2,2,4-Trimethylpentane	0.40	U	0.078	0.40
Benzene	0.38	J	0.084	0.40
1,2-Dichloroethane	0.40	U	0.082	0.40
n-Heptane	0.31	J	0.080	0.40
Trichloroethene	0.75		0.078	0.080
Methyl methacrylate	1.0	U	0.080	1.0
1,2-Dichloropropane	0.40	U	0.054	0.40
1,4-Dioxane	10	U	1.1	10
Bromodichloromethane	0.40	U	0.060	0.40
cis-1,3-Dichloropropene	0.40	U	0.046	0.40
methyl isobutyl ketone	0.33	J	0.10	1.0
Toluene	0.95		0.19	0.40
trans-1,3-Dichloropropene	0.40	U	0.068	0.40
1,1,2-Trichloroethane	0.40	U	0.078	0.40
Tetrachloroethene	0.23	J	0.046	0.40

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.0	U	0.11	1.0
Dibromochloromethane	0.40	U	0.088	0.40
1,2-Dibromoethane	0.40	U	0.078	0.40
Chlorobenzene	0.40	U	0.098	0.40
Ethylbenzene	0.084	J	0.066	0.40
m,p-Xylene	0.34	J	0.14	1.0
Xylene, o-	0.13	J	0.074	0.40
Xylene (total)	0.47	J	0.074	1.4
Styrene	0.40	U	0.086	0.40
Bromoform	0.40	U	0.11	0.40
Cumene	0.40	U	0.060	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.088	0.40
n-Propylbenzene	0.40	U	0.086	0.40
4-Ethyltoluene	0.40	U	0.088	0.40
1,3,5-Trimethylbenzene	0.40	U	0.078	0.40
2-Chlorotoluene	0.40	U	0.066	0.40
tert-Butylbenzene	0.40	U	0.088	0.40
1,2,4-Trimethylbenzene	0.40	U	0.086	0.40
sec-Butylbenzene	0.40	U	0.088	0.40
4-Isopropyltoluene	0.40	U	0.074	0.40
1,3-Dichlorobenzene	0.40	U	0.11	0.40
1,4-Dichlorobenzene	0.40	U	0.11	0.40
Benzyl chloride	0.40	U	0.11	0.40
n-Butylbenzene	0.40	U	0.094	0.40
1,2-Dichlorobenzene	0.40	U	0.11	0.40
1,2,4-Trichlorobenzene	1.0	U	0.14	1.0
Hexachlorobutadiene	0.40	U	0.16	0.40
Naphthalene	1.0	U	0.11	1.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	6.1		0.79	4.9
Freon 22	1.2	J	0.40	3.5
1,2-Dichlorotetrafluoroethane	2.8	U	0.53	2.8
Chloromethane	0.40	J	0.38	2.1
n-Butane	2.8		0.37	2.4
Vinyl chloride	0.20	U	0.16	0.20
1,3-Butadiene	0.88	U	0.39	0.88
Bromomethane	1.6	U	0.43	1.6
Chloroethane	2.6	U	0.45	2.6
Bromoethene(Vinyl Bromide)	1.7	U	0.38	1.7
Trichlorofluoromethane	280		0.43	2.2
Freon TF	3.1	U	1.1	3.1
1,1-Dichloroethene	1.6	U	0.29	1.6
Acetone	21	J	4.1	24
Isopropyl alcohol	25	U	4.8	25
Carbon disulfide	1.9	J	0.27	3.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.1	U	0.43	3.1
Methylene Chloride	1.6	J	1.3	3.5
tert-Butyl alcohol	30	U	5.2	30
Methyl tert-butyl ether	1.4	U	0.64	1.4
trans-1,2-Dichloroethene	1.6	U	0.34	1.6
n-Hexane	2.3		0.38	1.4
1,1-Dichloroethane	1.6	U	0.20	1.6
Methyl Ethyl Ketone	3.3		0.31	2.9
cis-1,2-Dichloroethene	1.6	U	0.28	1.6
1,2-Dichloroethene, Total	3.2	U	0.28	3.2
Chloroform	2.0	U	0.80	2.0
Tetrahydrofuran	29	U	8.3	29
1,1,1-Trichloroethane	34		0.50	2.2
Cyclohexane	0.77	J	0.27	1.4
Carbon tetrachloride	0.50	U	0.40	0.50
2,2,4-Trimethylpentane	1.9	U	0.36	1.9
Benzene	1.2	J	0.27	1.3
1,2-Dichloroethane	1.6	U	0.33	1.6
n-Heptane	1.3	J	0.33	1.6
Trichloroethene	4.1		0.42	0.43
Methyl methacrylate	4.1	U	0.33	4.1
1,2-Dichloropropane	1.8	U	0.25	1.8
1,4-Dioxane	36	U	4.0	36
Bromodichloromethane	2.7	U	0.40	2.7
cis-1,3-Dichloropropene	1.8	U	0.21	1.8
methyl isobutyl ketone	1.3	J	0.41	4.1
Toluene	3.6		0.70	1.5
trans-1,3-Dichloropropene	1.8	U	0.31	1.8
1,1,2-Trichloroethane	2.2	U	0.43	2.2
Tetrachloroethene	1.6	J	0.31	2.7
Methyl Butyl Ketone (2-Hexanone)	4.1	U	0.47	4.1
Dibromochloromethane	3.4	U	0.75	3.4
1,2-Dibromoethane	3.1	U	0.60	3.1
Chlorobenzene	1.8	U	0.45	1.8
Ethylbenzene	0.37	J	0.29	1.7
m,p-Xylene	1.5	J	0.62	4.3
Xylene, o-	0.55	J	0.32	1.7
Xylene (total)	2.0	J	0.32	6.1
Styrene	1.7	U	0.37	1.7
Bromoform	4.1	U	1.2	4.1
Cumene	2.0	U	0.29	2.0
1,1,2,2-Tetrachloroethane	2.7	U	0.60	2.7
n-Propylbenzene	2.0	U	0.42	2.0
4-Ethyltoluene	2.0	U	0.43	2.0
1,3,5-Trimethylbenzene	2.0	U	0.38	2.0
2-Chlorotoluene	2.1	U	0.34	2.1

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-SS10-092315

Lab Sample ID: 200-29972-20 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16087_25.D
Dilution:	2.0			Initial Weight/Volume:	130 mL
Analysis Date:	10/06/2015 0422			Final Weight/Volume:	200 mL
Prep Date:	10/06/2015 0422			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.2	U	0.48	2.2
1,2,4-Trimethylbenzene	2.0	U	0.42	2.0
sec-Butylbenzene	2.2	U	0.48	2.2
4-Isopropyltoluene	2.2	U	0.41	2.2
1,3-Dichlorobenzene	2.4	U	0.66	2.4
1,4-Dichlorobenzene	2.4	U	0.69	2.4
Benzyl chloride	2.1	U	0.55	2.1
n-Butylbenzene	2.2	U	0.52	2.2
1,2-Dichlorobenzene	2.4	U	0.66	2.4
1,2,4-Trichlorobenzene	7.4	U	1.0	7.4
Hexachlorobutadiene	4.3	U	1.7	4.3
Naphthalene	5.2	U	0.60	5.2

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.73		0.080	0.50
Freon 22	0.95		0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.70		0.093	0.50
n-Butane	7.5		0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.12	J	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	60	E	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.83		0.036	0.20
Acetone	9.1		0.86	5.0
Isopropyl alcohol	6.4		0.98	5.0
Carbon disulfide	0.13	J	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.32	J	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.74		0.054	0.20
1,1-Dichloroethane	0.25		0.025	0.20
Methyl Ethyl Ketone	0.81		0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.61		0.046	0.20
Cyclohexane	0.21		0.039	0.20
Carbon tetrachloride	0.092		0.032	0.040
2,2,4-Trimethylpentane	0.32		0.039	0.20
Benzene	0.74		0.042	0.20
1,2-Dichloroethane	1.1		0.041	0.20
n-Heptane	0.31		0.040	0.20
Trichloroethene	0.041		0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	1.6		0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.075	J	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20		0.033	0.20
m,p-Xylene	0.67		0.071	0.50
Xylene, o-	0.22		0.037	0.20
Xylene (total)	0.89		0.037	0.70
Styrene	0.22		0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.030	J	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.044	J	0.044	0.20
1,3,5-Trimethylbenzene	0.053	J	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.22		0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.10	J	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.072	J	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.11	J	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.6		0.40	2.5
Freon 22	3.4		0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.4		0.19	1.0
n-Butane	18		0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	0.33	J	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	340	E	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	3.3		0.14	0.79
Acetone	22		2.0	12
Isopropyl alcohol	16		2.4	12
Carbon disulfide	0.41	J	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.1	J	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	2.6		0.19	0.70
1,1-Dichloroethane	0.99		0.10	0.81
Methyl Ethyl Ketone	2.4		0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	3.3		0.25	1.1
Cyclohexane	0.71		0.13	0.69
Carbon tetrachloride	0.58		0.20	0.25
2,2,4-Trimethylpentane	1.5		0.18	0.93
Benzene	2.4		0.13	0.64
1,2-Dichloroethane	4.6		0.17	0.81
n-Heptane	1.3		0.16	0.82
Trichloroethene	0.22		0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	6.1		0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	0.51	J	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.85		0.14	0.87
m,p-Xylene	2.9		0.31	2.2
Xylene, o-	0.95		0.16	0.87
Xylene (total)	3.9		0.16	3.0
Styrene	0.94		0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.15	J	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.21	J	0.22	0.98
1,3,5-Trimethylbenzene	0.26	J	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_022.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0352			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0352			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	1.1		0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	0.55	J	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	0.43	J	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	0.58	J	0.30	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.70	J D	0.20	1.3
Freon 22	0.89	J D	0.14	1.3
1,2-Dichlorotetrafluoroethane	0.50	U	0.095	0.50
Chloromethane	0.61	J D	0.23	1.3
n-Butane	6.1	D	0.20	1.3
Vinyl chloride	0.10	U	0.080	0.10
1,3-Butadiene	0.50	U	0.22	0.50
Bromomethane	0.50	U	0.14	0.50
Chloroethane	1.3	U	0.21	1.3
Bromoethene(Vinyl Bromide)	0.50	U	0.11	0.50
Trichlorofluoromethane	57	D	0.095	0.50
Freon TF	0.50	U	0.19	0.50
1,1-Dichloroethene	0.77	D	0.090	0.50
Acetone	8.3	J D	2.2	13
Isopropyl alcohol	5.0	J D	2.5	13
Carbon disulfide	0.12	J D	0.11	1.3
3-Chloropropene	1.3	U	0.17	1.3
Methylene Chloride	1.3	U	0.45	1.3
tert-Butyl alcohol	13	U	2.1	13
Methyl tert-butyl ether	0.50	U	0.22	0.50
trans-1,2-Dichloroethene	0.50	U	0.11	0.50
n-Hexane	0.58	D	0.14	0.50
1,1-Dichloroethane	0.23	J D	0.063	0.50
Methyl Ethyl Ketone	0.66	J D	0.13	1.3
cis-1,2-Dichloroethene	0.50	U	0.088	0.50
1,2-Dichloroethene, Total	1.0	U	0.088	1.0
Chloroform	0.50	U	0.21	0.50
Tetrahydrofuran	13	U	3.5	13
1,1,1-Trichloroethane	0.61	D	0.12	0.50
Cyclohexane	0.15	J D	0.098	0.50
Carbon tetrachloride	0.080	J D	0.080	0.10
2,2,4-Trimethylpentane	0.24	J D	0.098	0.50
Benzene	0.65	D	0.11	0.50
1,2-Dichloroethane	1.0	D	0.10	0.50
n-Heptane	0.23	J D	0.10	0.50
Trichloroethene	0.10	U	0.098	0.10
Methyl methacrylate	1.3	U	0.10	1.3
1,2-Dichloropropane	0.50	U	0.068	0.50
1,4-Dioxane	13	U	1.4	13
Bromodichloromethane	0.50	U	0.075	0.50
cis-1,3-Dichloropropene	0.50	U	0.058	0.50
methyl isobutyl ketone	1.3	U	0.13	1.3
Toluene	1.2	D	0.23	0.50
trans-1,3-Dichloropropene	0.50	U	0.085	0.50
1,1,2-Trichloroethane	0.50	U	0.098	0.50
Tetrachloroethene	0.060	J D	0.058	0.50

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	1.3	U	0.14	1.3
Dibromochloromethane	0.50	U	0.11	0.50
1,2-Dibromoethane	0.50	U	0.098	0.50
Chlorobenzene	0.50	U	0.12	0.50
Ethylbenzene	0.17	J D	0.083	0.50
m,p-Xylene	0.54	J D	0.18	1.3
Xylene, o-	0.18	J D	0.093	0.50
Xylene (total)	0.72	J D	0.093	1.8
Styrene	0.15	J D	0.11	0.50
Bromoform	0.50	U	0.14	0.50
Cumene	0.50	U	0.075	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.11	0.50
n-Propylbenzene	0.50	U	0.11	0.50
4-Ethyltoluene	0.50	U	0.11	0.50
1,3,5-Trimethylbenzene	0.50	U	0.098	0.50
2-Chlorotoluene	0.50	U	0.083	0.50
tert-Butylbenzene	0.50	U	0.11	0.50
1,2,4-Trimethylbenzene	0.15	J D	0.11	0.50
sec-Butylbenzene	0.50	U	0.11	0.50
4-Isopropyltoluene	0.50	U	0.093	0.50
1,3-Dichlorobenzene	0.50	U	0.14	0.50
1,4-Dichlorobenzene	0.50	U	0.14	0.50
Benzyl chloride	0.50	U	0.13	0.50
n-Butylbenzene	0.50	U	0.12	0.50
1,2-Dichlorobenzene	0.50	U	0.14	0.50
1,2,4-Trichlorobenzene	1.3	U	0.17	1.3
Hexachlorobutadiene	0.50	U	0.21	0.50
Naphthalene	1.3	U	0.14	1.3

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	3.5	J D	0.99	6.2
Freon 22	3.1	J D	0.50	4.4
1,2-Dichlorotetrafluoroethane	3.5	U	0.66	3.5
Chloromethane	1.3	J D	0.48	2.6
n-Butane	15	D	0.46	3.0
Vinyl chloride	0.26	U	0.20	0.26
1,3-Butadiene	1.1	U	0.49	1.1
Bromomethane	1.9	U	0.54	1.9
Chloroethane	3.3	U	0.56	3.3
Bromoethene(Vinyl Bromide)	2.2	U	0.48	2.2
Trichlorofluoromethane	320	D	0.53	2.8
Freon TF	3.8	U	1.4	3.8
1,1-Dichloroethene	3.1	D	0.36	2.0
Acetone	20	J D	5.1	30
Isopropyl alcohol	12	J D	6.0	31
Carbon disulfide	0.39	J D	0.33	3.9

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	3.9	U	0.53	3.9
Methylene Chloride	4.3	U	1.6	4.3
tert-Butyl alcohol	38	U	6.4	38
Methyl tert-butyl ether	1.8	U	0.80	1.8
trans-1,2-Dichloroethene	2.0	U	0.43	2.0
n-Hexane	2.0	D	0.48	1.8
1,1-Dichloroethane	0.93	J D	0.25	2.0
Methyl Ethyl Ketone	1.9	J D	0.38	3.7
cis-1,2-Dichloroethene	2.0	U	0.35	2.0
1,2-Dichloroethene, Total	4.0	U	0.35	4.0
Chloroform	2.4	U	1.0	2.4
Tetrahydrofuran	37	U	10	37
1,1,1-Trichloroethane	3.3	D	0.63	2.7
Cyclohexane	0.51	J D	0.34	1.7
Carbon tetrachloride	0.50	J D	0.50	0.63
2,2,4-Trimethylpentane	1.1	J D	0.46	2.3
Benzene	2.1	D	0.34	1.6
1,2-Dichloroethane	4.1	D	0.41	2.0
n-Heptane	0.95	J D	0.41	2.0
Trichloroethene	0.54	U	0.52	0.54
Methyl methacrylate	5.1	U	0.41	5.1
1,2-Dichloropropane	2.3	U	0.31	2.3
1,4-Dioxane	45	U	5.0	45
Bromodichloromethane	3.4	U	0.50	3.4
cis-1,3-Dichloropropene	2.3	U	0.26	2.3
methyl isobutyl ketone	5.1	U	0.51	5.1
Toluene	4.7	D	0.88	1.9
trans-1,3-Dichloropropene	2.3	U	0.39	2.3
1,1,2-Trichloroethane	2.7	U	0.53	2.7
Tetrachloroethene	0.41	J D	0.39	3.4
Methyl Butyl Ketone (2-Hexanone)	5.1	U	0.58	5.1
Dibromochloromethane	4.3	U	0.94	4.3
1,2-Dibromoethane	3.8	U	0.75	3.8
Chlorobenzene	2.3	U	0.56	2.3
Ethylbenzene	0.75	J D	0.36	2.2
m,p-Xylene	2.3	J D	0.77	5.4
Xylene, o-	0.78	J D	0.40	2.2
Xylene (total)	3.1	J D	0.40	7.6
Styrene	0.64	J D	0.46	2.1
Bromoform	5.2	U	1.4	5.2
Cumene	2.5	U	0.37	2.5
1,1,2,2-Tetrachloroethane	3.4	U	0.76	3.4
n-Propylbenzene	2.5	U	0.53	2.5
4-Ethyltoluene	2.5	U	0.54	2.5
1,3,5-Trimethylbenzene	2.5	U	0.48	2.5
2-Chlorotoluene	2.6	U	0.43	2.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-IA10-092315

Lab Sample ID: 200-29972-21 Date Sampled: 09/23/2015 1834
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	16024_012.d
Dilution:	2.5			Initial Weight/Volume:	80 mL
Analysis Date:	09/30/2015 2007	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 2007			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	2.7	U	0.60	2.7
1,2,4-Trimethylbenzene	0.76	J D	0.53	2.5
sec-Butylbenzene	2.7	U	0.60	2.7
4-Isopropyltoluene	2.7	U	0.51	2.7
1,3-Dichlorobenzene	3.0	U	0.83	3.0
1,4-Dichlorobenzene	3.0	U	0.86	3.0
Benzyl chloride	2.6	U	0.69	2.6
n-Butylbenzene	2.7	U	0.65	2.7
1,2-Dichlorobenzene	3.0	U	0.83	3.0
1,2,4-Trichlorobenzene	9.3	U	1.3	9.3
Hexachlorobutadiene	5.3	U	2.2	5.3
Naphthalene	6.6	U	0.75	6.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-AA-092315

Lab Sample ID: 200-29972-22 Date Sampled: 09/23/2015 1739
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.58		0.080	0.50
Freon 22	0.31	J	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.58		0.093	0.50
n-Butane	0.39	J	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.26		0.038	0.20
Freon TF	0.086	J	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	3.8	J	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.089	J	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.36	J	0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.079		0.032	0.040
2,2,4-Trimethylpentane	0.20	U	0.039	0.20
Benzene	0.087	J	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.13	J	0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20
Tetrachloroethene	0.20	U	0.023	0.20

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-AA-092315

Lab Sample ID: 200-29972-22 Date Sampled: 09/23/2015 1739
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20	U	0.033	0.20
m,p-Xylene	0.50	U	0.071	0.50
Xylene, o-	0.20	U	0.037	0.20
Xylene (total)	0.70	U	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.9		0.40	2.5
Freon 22	1.1	J	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.2		0.19	1.0
n-Butane	0.92	J	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.5		0.21	1.1
Freon TF	0.66	J	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	8.9	J	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	1.6	U	0.13	1.6

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: FR-AA-092315

Lab Sample ID: 200-29972-22 Date Sampled: 09/23/2015 1739
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.31	J	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	1.1	J	0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	0.69	U	0.13	0.69
Carbon tetrachloride	0.50		0.20	0.25
2,2,4-Trimethylpentane	0.93	U	0.18	0.93
Benzene	0.28	J	0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	0.48	J	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.87	U	0.14	0.87
m,p-Xylene	2.2	U	0.31	2.2
Xylene, o-	0.87	U	0.16	0.87
Xylene (total)	3.0	U	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Client Sample ID: **FR-AA-092315**

Lab Sample ID: 200-29972-22 Date Sampled: 09/23/2015 1739
Client Matrix: Air Date Received: 09/25/2015 1330

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	15991_023.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 0442			Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 0442			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94728

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94728/4	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	15991_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1259	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1259			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	0.50	U	0.080	0.50
Freon 22	0.50	U	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.50	U	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.20	U	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	5.0	U	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.20	U	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.50	U	0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.040	U	0.032	0.040
2,2,4-Trimethylpentane	0.20	U	0.039	0.20
Benzene	0.20	U	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.20	U	0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94728

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94728/4	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	15991_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1259	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1259			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	0.20	U	0.023	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20	U	0.033	0.20
m,p-Xylene	0.50	U	0.071	0.50
Xylene, o-	0.20	U	0.037	0.20
Xylene (total)	0.70	U	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94728

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94728/4	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	15991_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1259	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1259			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	2.5	U	0.40	2.5
Freon 22	1.8	U	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0	U	0.19	1.0
n-Butane	1.2	U	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.1	U	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	12	U	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	1.6	U	0.13	1.6
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.70	U	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	1.5	U	0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	0.69	U	0.13	0.69
Carbon tetrachloride	0.25	U	0.20	0.25
2,2,4-Trimethylpentane	0.93	U	0.18	0.93
Benzene	0.64	U	0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	0.75	U	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94728

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94728/4	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	15991_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1259	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1259			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.87	U	0.14	0.87
m,p-Xylene	2.2	U	0.31	2.2
Xylene, o-	0.87	U	0.16	0.87
Xylene (total)	3.0	U	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Lab Control Sample - Batch: 200-94728

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-94728/3	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	15991_003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1210	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1210			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	9.10	91	70 - 130	
Freon 22	10.0	8.77	88	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70 - 130	
Chloromethane	10.0	8.36	84	70 - 130	
n-Butane	10.0	8.63	86	70 - 130	
Vinyl chloride	10.0	8.87	89	70 - 130	
1,3-Butadiene	10.0	8.43	84	70 - 130	
Bromomethane	10.0	8.71	87	70 - 130	
Chloroethane	10.0	9.16	92	70 - 130	
Bromoethene(Vinyl Bromide)	10.0	9.77	98	70 - 130	
Trichlorofluoromethane	10.0	9.33	93	70 - 130	
Freon TF	10.0	9.49	95	70 - 130	
1,1-Dichloroethene	10.0	9.92	99	70 - 130	
Acetone	10.0	9.30	93	70 - 130	
Isopropyl alcohol	10.0	8.81	88	70 - 130	
Carbon disulfide	10.0	10.7	107	70 - 130	
3-Chloropropene	10.0	9.14	91	70 - 130	
Methylene Chloride	10.0	8.94	89	70 - 130	
tert-Butyl alcohol	10.0	9.27	93	70 - 130	
Methyl tert-butyl ether	10.0	10.4	104	70 - 130	
trans-1,2-Dichloroethene	10.0	10.3	103	70 - 130	
n-Hexane	10.0	11.0	111	70 - 130	
1,1-Dichloroethane	10.0	9.64	96	70 - 130	
Methyl Ethyl Ketone	10.0	9.13	91	70 - 130	
cis-1,2-Dichloroethene	10.0	9.76	98	70 - 130	
Chloroform	10.0	9.43	94	70 - 130	
Tetrahydrofuran	10.0	9.59	96	70 - 130	
1,1,1-Trichloroethane	10.0	9.66	97	70 - 130	
Cyclohexane	10.0	10.5	105	70 - 130	
Carbon tetrachloride	10.0	9.92	99	70 - 130	
2,2,4-Trimethylpentane	10.0	10.2	102	70 - 130	
Benzene	10.0	9.69	97	70 - 130	
1,2-Dichloroethane	10.0	9.54	95	70 - 130	
n-Heptane	10.0	10.1	101	70 - 130	
Trichloroethene	10.0	9.82	98	70 - 130	
Methyl methacrylate	10.0	10.1	101	70 - 130	
1,2-Dichloropropane	10.0	9.11	91	70 - 130	
1,4-Dioxane	10.0	9.77	98	70 - 130	
Bromodichloromethane	10.0	9.11	91	70 - 130	
cis-1,3-Dichloropropene	10.0	10.4	104	70 - 130	
methyl isobutyl ketone	10.0	9.90	99	70 - 130	
Toluene	10.0	9.76	98	70 - 130	
trans-1,3-Dichloropropene	10.0	10.3	103	70 - 130	
1,1,2-Trichloroethane	10.0	9.72	97	70 - 130	
Tetrachloroethene	10.0	10.1	101	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.69	97	70 - 130	

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Lab Control Sample - Batch: 200-94728

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-94728/3	Analysis Batch:	200-94728	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	15991_003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/29/2015 1210	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/29/2015 1210			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromochloromethane	10.0	9.49	95	70 - 130	
1,2-Dibromoethane	10.0	9.99	100	70 - 130	
Chlorobenzene	10.0	9.77	98	70 - 130	
Ethylbenzene	10.0	10.5	105	70 - 130	
m,p-Xylene	20.0	21.0	105	70 - 130	
Xylene, o-	10.0	11.0	110	70 - 130	
Styrene	10.0	10.9	109	70 - 130	
Bromoform	10.0	9.90	99	70 - 130	
Cumene	10.0	10.8	108	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	10.0	100	70 - 130	
n-Propylbenzene	10.0	10.7	107	70 - 130	
4-Ethyltoluene	10.0	10.9	109	70 - 130	
1,3,5-Trimethylbenzene	10.0	10.6	106	70 - 130	
2-Chlorotoluene	10.0	10.1	101	70 - 130	
tert-Butylbenzene	10.0	10.8	108	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.8	108	70 - 130	
sec-Butylbenzene	10.0	10.8	108	70 - 130	
4-Isopropyltoluene	10.0	11.2	112	70 - 130	
1,3-Dichlorobenzene	10.0	10.5	105	70 - 130	
1,4-Dichlorobenzene	10.0	10.7	107	70 - 130	
Benzyl chloride	10.0	10.1	101	70 - 130	
n-Butylbenzene	10.0	10.3	103	70 - 130	
1,2-Dichlorobenzene	10.0	10.6	106	70 - 130	
1,2,4-Trichlorobenzene	10.0	10.7	107	70 - 130	
Hexachlorobutadiene	10.0	11.3	113	70 - 130	
Naphthalene	10.0	9.29	93	70 - 130	

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94809

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94809/5	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16024_005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1427	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1427			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	0.50	U	0.080	0.50
Freon 22	0.50	U	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.50	U	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.20	U	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	5.0	U	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.20	U	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.50	U	0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.040	U	0.032	0.040
2,2,4-Trimethylpentane	0.20	U	0.039	0.20
Benzene	0.20	U	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.20	U	0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94809

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94809/5	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16024_005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1427	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1427			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	0.20	U	0.023	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20	U	0.033	0.20
m,p-Xylene	0.50	U	0.071	0.50
Xylene, o-	0.20	U	0.037	0.20
Xylene (total)	0.70	U	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94809

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94809/5	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16024_005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1427	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1427			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	2.5	U	0.40	2.5
Freon 22	1.8	U	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0	U	0.19	1.0
n-Butane	1.2	U	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.1	U	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	12	U	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	1.6	U	0.13	1.6
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.70	U	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	1.5	U	0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	0.69	U	0.13	0.69
Carbon tetrachloride	0.25	U	0.20	0.25
2,2,4-Trimethylpentane	0.93	U	0.18	0.93
Benzene	0.64	U	0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	0.75	U	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-94809

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-94809/5	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16024_005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1427	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1427			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.87	U	0.14	0.87
m,p-Xylene	2.2	U	0.31	2.2
Xylene, o-	0.87	U	0.16	0.87
Xylene (total)	3.0	U	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Lab Control Sample - Batch: 200-94809

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-94809/4	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16024_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1338	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1338			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	9.49	95	70 - 130	
Freon 22	10.0	9.22	92	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	10.5	105	70 - 130	
Chloromethane	10.0	8.64	86	70 - 130	
n-Butane	10.0	8.77	88	70 - 130	
Vinyl chloride	10.0	9.07	91	70 - 130	
1,3-Butadiene	10.0	8.68	87	70 - 130	
Bromomethane	10.0	9.14	91	70 - 130	
Chloroethane	10.0	9.15	92	70 - 130	
Bromoethene(Vinyl Bromide)	10.0	9.88	99	70 - 130	
Trichlorofluoromethane	10.0	9.56	96	70 - 130	
Freon TF	10.0	9.65	97	70 - 130	
1,1-Dichloroethene	10.0	10.0	100	70 - 130	
Acetone	10.0	9.62	96	70 - 130	
Isopropyl alcohol	10.0	8.85	88	70 - 130	
Carbon disulfide	10.0	10.8	108	70 - 130	
3-Chloropropene	10.0	9.35	93	70 - 130	
Methylene Chloride	10.0	9.12	91	70 - 130	
tert-Butyl alcohol	10.0	9.21	92	70 - 130	
Methyl tert-butyl ether	10.0	10.2	102	70 - 130	
trans-1,2-Dichloroethene	10.0	10.6	106	70 - 130	
n-Hexane	10.0	11.3	113	70 - 130	
1,1-Dichloroethane	10.0	9.80	98	70 - 130	
Methyl Ethyl Ketone	10.0	9.04	90	70 - 130	
cis-1,2-Dichloroethene	10.0	9.96	100	70 - 130	
Chloroform	10.0	9.72	97	70 - 130	
Tetrahydrofuran	10.0	9.67	97	70 - 130	
1,1,1-Trichloroethane	10.0	10.0	100	70 - 130	
Cyclohexane	10.0	10.7	107	70 - 130	
Carbon tetrachloride	10.0	10.2	102	70 - 130	
2,2,4-Trimethylpentane	10.0	10.6	106	70 - 130	
Benzene	10.0	9.96	100	70 - 130	
1,2-Dichloroethane	10.0	10.0	100	70 - 130	
n-Heptane	10.0	10.6	106	70 - 130	
Trichloroethene	10.0	10.3	103	70 - 130	
Methyl methacrylate	10.0	10.2	102	70 - 130	
1,2-Dichloropropane	10.0	9.64	96	70 - 130	
1,4-Dioxane	10.0	9.73	97	70 - 130	
Bromodichloromethane	10.0	9.73	97	70 - 130	
cis-1,3-Dichloropropene	10.0	10.7	107	70 - 130	
methyl isobutyl ketone	10.0	9.96	100	70 - 130	
Toluene	10.0	10.1	101	70 - 130	
trans-1,3-Dichloropropene	10.0	10.4	104	70 - 130	
1,1,2-Trichloroethane	10.0	9.72	97	70 - 130	
Tetrachloroethene	10.0	10.3	103	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.74	97	70 - 130	

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Lab Control Sample - Batch: 200-94809

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-94809/4	Analysis Batch:	200-94809	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16024_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/30/2015 1338	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/30/2015 1338			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromochloromethane	10.0	9.48	95	70 - 130	
1,2-Dibromoethane	10.0	9.99	100	70 - 130	
Chlorobenzene	10.0	9.63	96	70 - 130	
Ethylbenzene	10.0	10.3	103	70 - 130	
m,p-Xylene	20.0	20.6	103	70 - 130	
Xylene, o-	10.0	10.8	108	70 - 130	
Styrene	10.0	10.7	107	70 - 130	
Bromoform	10.0	9.77	98	70 - 130	
Cumene	10.0	10.7	107	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	10.0	100	70 - 130	
n-Propylbenzene	10.0	10.7	107	70 - 130	
4-Ethyltoluene	10.0	10.9	109	70 - 130	
1,3,5-Trimethylbenzene	10.0	10.6	106	70 - 130	
2-Chlorotoluene	10.0	10.1	101	70 - 130	
tert-Butylbenzene	10.0	10.9	109	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.8	108	70 - 130	
sec-Butylbenzene	10.0	10.9	109	70 - 130	
4-Isopropyltoluene	10.0	11.2	112	70 - 130	
1,3-Dichlorobenzene	10.0	10.5	105	70 - 130	
1,4-Dichlorobenzene	10.0	10.6	106	70 - 130	
Benzyl chloride	10.0	10.1	101	70 - 130	
n-Butylbenzene	10.0	10.5	105	70 - 130	
1,2-Dichlorobenzene	10.0	10.6	106	70 - 130	
1,2,4-Trichlorobenzene	10.0	10.2	102	70 - 130	
Hexachlorobutadiene	10.0	11.3	113	70 - 130	
Naphthalene	10.0	8.94	89	70 - 130	

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-95027

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-95027/4	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16087_04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 1108	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 1108			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	0.50	U	0.080	0.50
Freon 22	0.50	U	0.057	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.038	0.20
Chloromethane	0.50	U	0.093	0.50
n-Butane	0.50	U	0.078	0.50
Vinyl chloride	0.040	U	0.032	0.040
1,3-Butadiene	0.20	U	0.089	0.20
Bromomethane	0.20	U	0.056	0.20
Chloroethane	0.50	U	0.085	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.044	0.20
Trichlorofluoromethane	0.20	U	0.038	0.20
Freon TF	0.20	U	0.075	0.20
1,1-Dichloroethene	0.20	U	0.036	0.20
Acetone	5.0	U	0.86	5.0
Isopropyl alcohol	5.0	U	0.98	5.0
Carbon disulfide	0.50	U	0.043	0.50
3-Chloropropene	0.50	U	0.068	0.50
Methylene Chloride	0.50	U	0.18	0.50
tert-Butyl alcohol	5.0	U	0.85	5.0
Methyl tert-butyl ether	0.20	U	0.089	0.20
trans-1,2-Dichloroethene	0.20	U	0.043	0.20
n-Hexane	0.20	U	0.054	0.20
1,1-Dichloroethane	0.20	U	0.025	0.20
Methyl Ethyl Ketone	0.50	U	0.052	0.50
cis-1,2-Dichloroethene	0.20	U	0.035	0.20
1,2-Dichloroethene, Total	0.40	U	0.035	0.40
Chloroform	0.20	U	0.082	0.20
Tetrahydrofuran	5.0	U	1.4	5.0
1,1,1-Trichloroethane	0.20	U	0.046	0.20
Cyclohexane	0.20	U	0.039	0.20
Carbon tetrachloride	0.040	U	0.032	0.040
2,2,4-Trimethylpentane	0.20	U	0.039	0.20
Benzene	0.20	U	0.042	0.20
1,2-Dichloroethane	0.20	U	0.041	0.20
n-Heptane	0.20	U	0.040	0.20
Trichloroethene	0.040	U	0.039	0.040
Methyl methacrylate	0.50	U	0.040	0.50
1,2-Dichloropropane	0.20	U	0.027	0.20
1,4-Dioxane	5.0	U	0.56	5.0
Bromodichloromethane	0.20	U	0.030	0.20
cis-1,3-Dichloropropene	0.20	U	0.023	0.20
methyl isobutyl ketone	0.50	U	0.050	0.50
Toluene	0.20	U	0.093	0.20
trans-1,3-Dichloropropene	0.20	U	0.034	0.20
1,1,2-Trichloroethane	0.20	U	0.039	0.20

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-95027

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-95027/4	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16087_04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 1108	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 1108			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	0.20	U	0.023	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.057	0.50
Dibromochloromethane	0.20	U	0.044	0.20
1,2-Dibromoethane	0.20	U	0.039	0.20
Chlorobenzene	0.20	U	0.049	0.20
Ethylbenzene	0.20	U	0.033	0.20
m,p-Xylene	0.50	U	0.071	0.50
Xylene, o-	0.20	U	0.037	0.20
Xylene (total)	0.70	U	0.037	0.70
Styrene	0.20	U	0.043	0.20
Bromoform	0.20	U	0.056	0.20
Cumene	0.20	U	0.030	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.044	0.20
n-Propylbenzene	0.20	U	0.043	0.20
4-Ethyltoluene	0.20	U	0.044	0.20
1,3,5-Trimethylbenzene	0.20	U	0.039	0.20
2-Chlorotoluene	0.20	U	0.033	0.20
tert-Butylbenzene	0.20	U	0.044	0.20
1,2,4-Trimethylbenzene	0.20	U	0.043	0.20
sec-Butylbenzene	0.20	U	0.044	0.20
4-Isopropyltoluene	0.20	U	0.037	0.20
1,3-Dichlorobenzene	0.20	U	0.055	0.20
1,4-Dichlorobenzene	0.20	U	0.057	0.20
Benzyl chloride	0.20	U	0.053	0.20
n-Butylbenzene	0.20	U	0.047	0.20
1,2-Dichlorobenzene	0.20	U	0.055	0.20
1,2,4-Trichlorobenzene	0.50	U	0.068	0.50
Hexachlorobutadiene	0.20	U	0.082	0.20
Naphthalene	0.50	U	0.057	0.50

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-95027

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-95027/4	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16087_04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 1108	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 1108			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	2.5	U	0.40	2.5
Freon 22	1.8	U	0.20	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.27	1.4
Chloromethane	1.0	U	0.19	1.0
n-Butane	1.2	U	0.19	1.2
Vinyl chloride	0.10	U	0.082	0.10
1,3-Butadiene	0.44	U	0.20	0.44
Bromomethane	0.78	U	0.22	0.78
Chloroethane	1.3	U	0.22	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.19	0.87
Trichlorofluoromethane	1.1	U	0.21	1.1
Freon TF	1.5	U	0.57	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	12	U	2.0	12
Isopropyl alcohol	12	U	2.4	12
Carbon disulfide	1.6	U	0.13	1.6
3-Chloropropene	1.6	U	0.21	1.6
Methylene Chloride	1.7	U	0.63	1.7
tert-Butyl alcohol	15	U	2.6	15
Methyl tert-butyl ether	0.72	U	0.32	0.72
trans-1,2-Dichloroethene	0.79	U	0.17	0.79
n-Hexane	0.70	U	0.19	0.70
1,1-Dichloroethane	0.81	U	0.10	0.81
Methyl Ethyl Ketone	1.5	U	0.15	1.5
cis-1,2-Dichloroethene	0.79	U	0.14	0.79
1,2-Dichloroethene, Total	1.6	U	0.14	1.6
Chloroform	0.98	U	0.40	0.98
Tetrahydrofuran	15	U	4.1	15
1,1,1-Trichloroethane	1.1	U	0.25	1.1
Cyclohexane	0.69	U	0.13	0.69
Carbon tetrachloride	0.25	U	0.20	0.25
2,2,4-Trimethylpentane	0.93	U	0.18	0.93
Benzene	0.64	U	0.13	0.64
1,2-Dichloroethane	0.81	U	0.17	0.81
n-Heptane	0.82	U	0.16	0.82
Trichloroethene	0.21	U	0.21	0.21
Methyl methacrylate	2.0	U	0.16	2.0
1,2-Dichloropropane	0.92	U	0.12	0.92
1,4-Dioxane	18	U	2.0	18
Bromodichloromethane	1.3	U	0.20	1.3
cis-1,3-Dichloropropene	0.91	U	0.10	0.91
methyl isobutyl ketone	2.0	U	0.20	2.0
Toluene	0.75	U	0.35	0.75
trans-1,3-Dichloropropene	0.91	U	0.15	0.91
1,1,2-Trichloroethane	1.1	U	0.21	1.1

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Method Blank - Batch: 200-95027

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-95027/4	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16087_04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 1108	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 1108			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.4	U	0.16	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.23	2.0
Dibromochloromethane	1.7	U	0.37	1.7
1,2-Dibromoethane	1.5	U	0.30	1.5
Chlorobenzene	0.92	U	0.23	0.92
Ethylbenzene	0.87	U	0.14	0.87
m,p-Xylene	2.2	U	0.31	2.2
Xylene, o-	0.87	U	0.16	0.87
Xylene (total)	3.0	U	0.16	3.0
Styrene	0.85	U	0.18	0.85
Bromoform	2.1	U	0.58	2.1
Cumene	0.98	U	0.15	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.30	1.4
n-Propylbenzene	0.98	U	0.21	0.98
4-Ethyltoluene	0.98	U	0.22	0.98
1,3,5-Trimethylbenzene	0.98	U	0.19	0.98
2-Chlorotoluene	1.0	U	0.17	1.0
tert-Butylbenzene	1.1	U	0.24	1.1
1,2,4-Trimethylbenzene	0.98	U	0.21	0.98
sec-Butylbenzene	1.1	U	0.24	1.1
4-Isopropyltoluene	1.1	U	0.20	1.1
1,3-Dichlorobenzene	1.2	U	0.33	1.2
1,4-Dichlorobenzene	1.2	U	0.34	1.2
Benzyl chloride	1.0	U	0.27	1.0
n-Butylbenzene	1.1	U	0.26	1.1
1,2-Dichlorobenzene	1.2	U	0.33	1.2
1,2,4-Trichlorobenzene	3.7	U	0.50	3.7
Hexachlorobutadiene	2.1	U	0.87	2.1
Naphthalene	2.6	U	0.30	2.6

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Lab Control Sample - Batch: 200-95027

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-95027/3	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16087_03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 1019	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 1019			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	9.26	93	70 - 130	
Freon 22	10.0	8.59	86	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70 - 130	
Chloromethane	10.0	7.97	80	70 - 130	
n-Butane	10.0	7.77	78	70 - 130	
Vinyl chloride	10.0	8.65	86	70 - 130	
1,3-Butadiene	10.0	7.98	80	70 - 130	
Bromomethane	10.0	9.23	92	70 - 130	
Chloroethane	10.0	8.57	86	70 - 130	
Bromoethene(Vinyl Bromide)	10.0	9.26	93	70 - 130	
Trichlorofluoromethane	10.0	9.35	94	70 - 130	
Freon TF	10.0	9.25	93	70 - 130	
1,1-Dichloroethene	10.0	9.17	92	70 - 130	
Acetone	10.0	8.63	86	70 - 130	
Isopropyl alcohol	10.0	7.01	70	70 - 130	
Carbon disulfide	10.0	10.2	102	70 - 130	
3-Chloropropene	10.0	7.79	78	70 - 130	
Methylene Chloride	10.0	7.68	77	70 - 130	
tert-Butyl alcohol	10.0	7.88	79	70 - 130	
Methyl tert-butyl ether	10.0	8.85	89	70 - 130	
trans-1,2-Dichloroethene	10.0	9.09	91	70 - 130	
n-Hexane	10.0	8.57	86	70 - 130	
1,1-Dichloroethane	10.0	8.50	85	70 - 130	
Methyl Ethyl Ketone	10.0	8.06	81	70 - 130	
cis-1,2-Dichloroethene	10.0	9.09	91	70 - 130	
Chloroform	10.0	9.14	91	70 - 130	
Tetrahydrofuran	10.0	7.85	79	70 - 130	
1,1,1-Trichloroethane	10.0	9.36	94	70 - 130	
Cyclohexane	10.0	8.82	88	70 - 130	
Carbon tetrachloride	10.0	9.87	99	70 - 130	
2,2,4-Trimethylpentane	10.0	8.17	82	70 - 130	
Benzene	10.0	8.80	88	70 - 130	
1,2-Dichloroethane	10.0	8.90	89	70 - 130	
n-Heptane	10.0	7.80	78	70 - 130	
Trichloroethene	10.0	8.99	90	70 - 130	
Methyl methacrylate	10.0	9.09	91	70 - 130	
1,2-Dichloropropane	10.0	8.81	88	70 - 130	
1,4-Dioxane	10.0	8.58	86	70 - 130	
Bromodichloromethane	10.0	9.60	96	70 - 130	
cis-1,3-Dichloropropene	10.0	9.43	94	70 - 130	
methyl isobutyl ketone	10.0	8.31	83	70 - 130	
Toluene	10.0	9.30	93	70 - 130	
trans-1,3-Dichloropropene	10.0	9.09	91	70 - 130	
1,1,2-Trichloroethane	10.0	9.26	93	70 - 130	
Tetrachloroethene	10.0	10.5	105	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	7.58	76	70 - 130	

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Lab Control Sample - Batch: 200-95027

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-95027/3	Analysis Batch:	200-95027	Instrument ID:	CHX.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	16087_03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/05/2015 1019	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/05/2015 1019			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromochloromethane	10.0	10.3	103	70 - 130	
1,2-Dibromoethane	10.0	9.66	97	70 - 130	
Chlorobenzene	10.0	9.70	97	70 - 130	
Ethylbenzene	10.0	9.30	93	70 - 130	
m,p-Xylene	20.0	18.9	94	70 - 130	
Xylene, o-	10.0	9.36	94	70 - 130	
Styrene	10.0	9.49	95	70 - 130	
Bromoform	10.0	12.8	128	70 - 130	
Cumene	10.0	9.29	93	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.47	95	70 - 130	
n-Propylbenzene	10.0	9.18	92	70 - 130	
4-Ethyltoluene	10.0	9.52	95	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.34	93	70 - 130	
2-Chlorotoluene	10.0	9.09	91	70 - 130	
tert-Butylbenzene	10.0	9.07	91	70 - 130	
1,2,4-Trimethylbenzene	10.0	8.64	86	70 - 130	
sec-Butylbenzene	10.0	7.95	79	70 - 130	
4-Isopropyltoluene	10.0	8.63	86	70 - 130	
1,3-Dichlorobenzene	10.0	10.2	102	70 - 130	
1,4-Dichlorobenzene	10.0	10.1	101	70 - 130	
Benzyl chloride	10.0	7.52	75	70 - 130	
n-Butylbenzene	10.0	9.31	93	70 - 130	
1,2-Dichlorobenzene	10.0	8.81	88	70 - 130	
1,2,4-Trichlorobenzene	10.0	9.23	92	70 - 130	
Hexachlorobutadiene	10.0	10.5	105	70 - 130	
Naphthalene	10.0	7.32	73	70 - 130	

DATA REPORTING QUALIFIERS

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-94728					
LCS 200-94728/3	Lab Control Sample	T	Air	TO-15	
MB 200-94728/4	Method Blank	T	Air	TO-15	
200-29972-2	FR-IA01-092315	T	Air	TO-15	
200-29972-2DL	FR-IA01-092315	T	Air	TO-15	
200-29972-4	FR-IA02-092315	T	Air	TO-15	
200-29972-6	FR-IA03-092315	T	Air	TO-15	
200-29972-7	FR-SS04-092315	T	Air	TO-15	
200-29972-8	FR-IA04-092315	T	Air	TO-15	
200-29972-9	FR-SS05-092315	T	Air	TO-15	
200-29972-9DL	FR-SS05-092315	T	Air	TO-15	
200-29972-10	FR-IA05-092315	T	Air	TO-15	
200-29972-10DL	FR-IA05-092315	T	Air	TO-15	
200-29972-12	FR-IA06-092315	T	Air	TO-15	
200-29972-12DL	FR-IA06-092315	T	Air	TO-15	
200-29972-14DL	FR-IA07-092315	T	Air	TO-15	
200-29972-18	FR-IA09-092315	T	Air	TO-15	
200-29972-21	FR-IA10-092315	T	Air	TO-15	
200-29972-22	FR-AA-092315	T	Air	TO-15	
Analysis Batch:200-94809					
LCS 200-94809/4	Lab Control Sample	T	Air	TO-15	
MB 200-94809/5	Method Blank	T	Air	TO-15	
200-29972-4DL	FR-IA02-092315	T	Air	TO-15	
200-29972-14	FR-IA07-092315	T	Air	TO-15	
200-29972-15	FR-SS08-092315	T	Air	TO-15	
200-29972-15DL	FR-SS08-092315	T	Air	TO-15	
200-29972-16	FR-IA08-092315	T	Air	TO-15	
200-29972-16DL	FR-IA08-092315	T	Air	TO-15	
200-29972-18DL	FR-IA09-092315	T	Air	TO-15	
200-29972-21DL	FR-IA10-092315	T	Air	TO-15	
Analysis Batch:200-95027					
LCS 200-95027/3	Lab Control Sample	T	Air	TO-15	
MB 200-95027/4	Method Blank	T	Air	TO-15	
200-29972-1	FR-SS01-092315	T	Air	TO-15	
200-29972-3	FR-SS02-092315	T	Air	TO-15	
200-29972-5	FR-SS03-092315	T	Air	TO-15	
200-29972-11	FR-SS06-092315	T	Air	TO-15	
200-29972-13	FR-SS07-092315	T	Air	TO-15	
200-29972-17	FR-SS09-092315	T	Air	TO-15	
200-29972-19	FR-SSDUP-092315	T	Air	TO-15	
200-29972-20	FR-SS10-092315	T	Air	TO-15	

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Laboratory Chronicle

Lab ID: 200-29972-1 **Client ID: FR-SS01-092315**

Sample Date/Time: 09/23/2015 17:19 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-1		200-95027		10/05/2015 22:38	1	TAL BUR	WRD
A:TO-15	200-29972-A-1		200-95027		10/05/2015 22:38	1	TAL BUR	WRD

Lab ID: 200-29972-2 **Client ID: FR-IA01-092315**

Sample Date/Time: 09/23/2015 17:19 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-2		200-94728		09/29/2015 14:37	1	TAL BUR	PAD
A:TO-15	200-29972-A-2		200-94728		09/29/2015 14:37	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-2	DL	200-94728		09/30/2015 05:30	2.99	TAL BUR	PAD
A:TO-15	200-29972-A-2	DL	200-94728		09/30/2015 05:30	2.99	TAL BUR	PAD

Lab ID: 200-29972-3 **Client ID: FR-SS02-092315**

Sample Date/Time: 09/23/2015 17:17 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-3		200-95027		10/05/2015 23:27	4	TAL BUR	WRD
A:TO-15	200-29972-A-3		200-95027		10/05/2015 23:27	4	TAL BUR	WRD

Lab ID: 200-29972-4 **Client ID: FR-IA02-092315**

Sample Date/Time: 09/23/2015 17:17 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-4		200-94728		09/29/2015 16:16	1	TAL BUR	PAD
A:TO-15	200-29972-A-4		200-94728		09/29/2015 16:16	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-4	DL	200-94809		09/30/2015 15:15	5	TAL BUR	PAD
A:TO-15	200-29972-A-4	DL	200-94809		09/30/2015 15:15	5	TAL BUR	PAD

Lab ID: 200-29972-5 **Client ID: FR-SS03-092315**

Sample Date/Time: 09/23/2015 17:31 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-5		200-95027		10/06/2015 00:16	1	TAL BUR	WRD
A:TO-15	200-29972-A-5		200-95027		10/06/2015 00:16	1	TAL BUR	WRD

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Laboratory Chronicle

Lab ID: 200-29972-6 **Client ID: FR-IA03-092315**

Sample Date/Time: 09/23/2015 17:31 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-6		200-94728		09/29/2015 17:55	1	TAL BUR	PAD
A:TO-15	200-29972-A-6		200-94728		09/29/2015 17:55	1	TAL BUR	PAD

Lab ID: 200-29972-7 **Client ID: FR-SS04-092315**

Sample Date/Time: 09/23/2015 17:46 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-7		200-94728		09/29/2015 18:44	10	TAL BUR	PAD
A:TO-15	200-29972-A-7		200-94728		09/29/2015 18:44	10	TAL BUR	PAD

Lab ID: 200-29972-8 **Client ID: FR-IA04-092315**

Sample Date/Time: 09/23/2015 17:46 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-8		200-94728		09/29/2015 19:33	1	TAL BUR	PAD
A:TO-15	200-29972-A-8		200-94728		09/29/2015 19:33	1	TAL BUR	PAD

Lab ID: 200-29972-9 **Client ID: FR-SS05-092315**

Sample Date/Time: 09/23/2015 17:51 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-9		200-94728		09/29/2015 20:23	176	TAL BUR	PAD
A:TO-15	200-29972-A-9		200-94728		09/29/2015 20:23	176	TAL BUR	PAD
P:Summa Canister	200-29972-A-9	DL	200-94728		09/29/2015 21:11	927	TAL BUR	PAD
A:TO-15	200-29972-A-9	DL	200-94728		09/29/2015 21:11	927	TAL BUR	PAD

Lab ID: 200-29972-10 **Client ID: FR-IA05-092315**

Sample Date/Time: 09/23/2015 17:51 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-10		200-94728		09/29/2015 22:02	1	TAL BUR	PAD
A:TO-15	200-29972-A-10		200-94728		09/29/2015 22:02	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-10	DL	200-94728		09/30/2015 08:03	2.99	TAL BUR	PAD
A:TO-15	200-29972-A-10	DL	200-94728		09/30/2015 08:03	2.99	TAL BUR	PAD

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Laboratory Chronicle

Lab ID: 200-29972-11 **Client ID: FR-SS06-092315**

Sample Date/Time: 09/23/2015 17:59 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-11		200-95027		10/06/2015 01:05	1	TAL BUR	WRD
A:TO-15	200-29972-A-11		200-95027		10/06/2015 01:05	1	TAL BUR	WRD

Lab ID: 200-29972-12 **Client ID: FR-IA06-092315**

Sample Date/Time: 09/23/2015 17:59 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-12		200-94728		09/29/2015 23:40	1	TAL BUR	PAD
A:TO-15	200-29972-A-12		200-94728		09/29/2015 23:40	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-12	DL	200-94728		09/30/2015 08:51	2	TAL BUR	PAD
A:TO-15	200-29972-A-12	DL	200-94728		09/30/2015 08:51	2	TAL BUR	PAD

Lab ID: 200-29972-13 **Client ID: FR-SS07-092315**

Sample Date/Time: 09/23/2015 18:14 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-13		200-95027		10/06/2015 01:55	5	TAL BUR	WRD
A:TO-15	200-29972-A-13		200-95027		10/06/2015 01:55	5	TAL BUR	WRD

Lab ID: 200-29972-14 **Client ID: FR-IA07-092315**

Sample Date/Time: 09/23/2015 18:14 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-14	DL	200-94728		09/30/2015 09:39	2	TAL BUR	PAD
A:TO-15	200-29972-A-14	DL	200-94728		09/30/2015 09:39	2	TAL BUR	PAD
P:Summa Canister	200-29972-A-14		200-94809		09/30/2015 16:53	1	TAL BUR	PAD
A:TO-15	200-29972-A-14		200-94809		09/30/2015 16:53	1	TAL BUR	PAD

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Laboratory Chronicle

Lab ID: 200-29972-15 **Client ID: FR-SS08-092315**

Sample Date/Time: 09/23/2015 18:09 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-15		200-94809		09/30/2015 20:57	39.5	TAL BUR	PAD
A:TO-15	200-29972-A-15		200-94809		09/30/2015 20:57	39.5	TAL BUR	PAD
P:Summa Canister	200-29972-A-15	DL	200-94809		09/30/2015 21:45	180	TAL BUR	PAD
A:TO-15	200-29972-A-15	DL	200-94809		09/30/2015 21:45	180	TAL BUR	PAD

Lab ID: 200-29972-16 **Client ID: FR-IA08-092315**

Sample Date/Time: 09/23/2015 18:09 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-16		200-94809		09/30/2015 17:43	1	TAL BUR	PAD
A:TO-15	200-29972-A-16		200-94809		09/30/2015 17:43	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-16	DL	200-94809		09/30/2015 18:31	2.99	TAL BUR	PAD
A:TO-15	200-29972-A-16	DL	200-94809		09/30/2015 18:31	2.99	TAL BUR	PAD

Lab ID: 200-29972-17 **Client ID: FR-SS09-092315**

Sample Date/Time: 09/23/2015 18:27 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-17		200-95027		10/06/2015 02:44	2	TAL BUR	WRD
A:TO-15	200-29972-A-17		200-95027		10/06/2015 02:44	2	TAL BUR	WRD

Lab ID: 200-29972-18 **Client ID: FR-IA09-092315**

Sample Date/Time: 09/23/2015 18:31 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-18		200-94728		09/30/2015 03:02	1	TAL BUR	PAD
A:TO-15	200-29972-A-18		200-94728		09/30/2015 03:02	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-18	DL	200-94809		09/30/2015 19:19	4	TAL BUR	PAD
A:TO-15	200-29972-A-18	DL	200-94809		09/30/2015 19:19	4	TAL BUR	PAD

Client: O'Brien & Gere Inc of North America Job Number: 200-29972-1

Laboratory Chronicle

Lab ID: 200-29972-19 **Client ID: FR-SSDUP-092315**

Sample Date/Time: 09/23/2015 18:31 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-19		200-95027		10/06/2015 03:33	3	TAL BUR	WRD
A:TO-15	200-29972-A-19		200-95027		10/06/2015 03:33	3	TAL BUR	WRD

Lab ID: 200-29972-20 **Client ID: FR-SS10-092315**

Sample Date/Time: 09/23/2015 18:34 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-20		200-95027		10/06/2015 04:22	2	TAL BUR	WRD
A:TO-15	200-29972-A-20		200-95027		10/06/2015 04:22	2	TAL BUR	WRD

Lab ID: 200-29972-21 **Client ID: FR-IA10-092315**

Sample Date/Time: 09/23/2015 18:34 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-21		200-94728		09/30/2015 03:52	1	TAL BUR	PAD
A:TO-15	200-29972-A-21		200-94728		09/30/2015 03:52	1	TAL BUR	PAD
P:Summa Canister	200-29972-A-21	DL	200-94809		09/30/2015 20:07	2.5	TAL BUR	PAD
A:TO-15	200-29972-A-21	DL	200-94809		09/30/2015 20:07	2.5	TAL BUR	PAD

Lab ID: 200-29972-22 **Client ID: FR-AA-092315**

Sample Date/Time: 09/23/2015 17:39 Received Date/Time: 09/25/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-29972-A-22		200-94728		09/30/2015 04:42	1	TAL BUR	PAD
A:TO-15	200-29972-A-22		200-94728		09/30/2015 04:42	1	TAL BUR	PAD

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-94728/4		200-94728		09/29/2015 12:59	1	TAL BUR	PAD
A:TO-15	MB 200-94728/4		200-94728		09/29/2015 12:59	1	TAL BUR	PAD
P:Summa Canister	MB 200-94809/5		200-94809		09/30/2015 14:27	1	TAL BUR	PAD
A:TO-15	MB 200-94809/5		200-94809		09/30/2015 14:27	1	TAL BUR	PAD
P:Summa Canister	MB 200-95027/4		200-95027		10/05/2015 11:08	1	TAL BUR	WRD
A:TO-15	MB 200-95027/4		200-95027		10/05/2015 11:08	1	TAL BUR	WRD

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-94728/3		200-94728		09/29/2015 12:10	1	TAL BUR	PAD
A:TO-15	LCS 200-94728/3		200-94728		09/29/2015 12:10	1	TAL BUR	PAD
P:Summa Canister	LCS 200-94809/4		200-94809		09/30/2015 13:38	1	TAL BUR	PAD
A:TO-15	LCS 200-94809/4		200-94809		09/30/2015 13:38	1	TAL BUR	PAD
P:Summa Canister	LCS 200-95027/3		200-95027		10/05/2015 10:19	1	TAL BUR	WRD
A:TO-15	LCS 200-95027/3		200-95027		10/05/2015 10:19	1	TAL BUR	WRD

Lab References:

TAL BUR = TestAmerica Burlington

Certification Summary

Client: O'Brien & Gere Inc of North America
Project/Site: LMCO Farrell Rd.

TestAmerica Job ID: 200-29972-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act (HSC	State Program	3	NA
TestAmerica Burlington	Florida	NELAP	4	E87467
TestAmerica Burlington	L-A-B	DoD ELAP		L2336
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAP	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAP	1	2006
TestAmerica Burlington	New Jersey	NELAP	2	VT972
TestAmerica Burlington	New York	NELAP	2	10391
TestAmerica Burlington	Pennsylvania	NELAP	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	US Fish & Wildlife	Federal		LE-058448-0
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAP	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method TO15

Volatile Organic Compounds (GC/MS) by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 15991_003.d

Lab ID: LCS 200-94728/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	9.10	91	70-130	
Freon 22	10.0	8.77	88	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70-130	
Chloromethane	10.0	8.36	84	70-130	
n-Butane	10.0	8.63	86	70-130	
Vinyl chloride	10.0	8.87	89	70-130	
1,3-Butadiene	10.0	8.43	84	70-130	
Bromomethane	10.0	8.71	87	70-130	
Chloroethane	10.0	9.16	92	70-130	
Bromoethene(Vinyl Bromide)	10.0	9.77	98	70-130	
Trichlorofluoromethane	10.0	9.33	93	70-130	
Freon TF	10.0	9.49	95	70-130	
1,1-Dichloroethene	10.0	9.92	99	70-130	
Acetone	10.0	9.30	93	70-130	
Isopropyl alcohol	10.0	8.81	88	70-130	
Carbon disulfide	10.0	10.7	107	70-130	
3-Chloropropene	10.0	9.14	91	70-130	
Methylene Chloride	10.0	8.94	89	70-130	
tert-Butyl alcohol	10.0	9.27	93	70-130	
Methyl tert-butyl ether	10.0	10.4	104	70-130	
trans-1,2-Dichloroethene	10.0	10.3	103	70-130	
n-Hexane	10.0	11.0	111	70-130	
1,1-Dichloroethane	10.0	9.64	96	70-130	
Methyl Ethyl Ketone	10.0	9.13	91	70-130	
cis-1,2-Dichloroethene	10.0	9.76	98	70-130	
Chloroform	10.0	9.43	94	70-130	
Tetrahydrofuran	10.0	9.59	96	70-130	
1,1,1-Trichloroethane	10.0	9.66	97	70-130	
Cyclohexane	10.0	10.5	105	70-130	
Carbon tetrachloride	10.0	9.92	99	70-130	
2,2,4-Trimethylpentane	10.0	10.2	102	70-130	
Benzene	10.0	9.69	97	70-130	
1,2-Dichloroethane	10.0	9.54	95	70-130	
n-Heptane	10.0	10.1	101	70-130	
Trichloroethene	10.0	9.82	98	70-130	
Methyl methacrylate	10.0	10.1	101	70-130	
1,2-Dichloropropane	10.0	9.11	91	70-130	
1,4-Dioxane	10.0	9.77	98	70-130	
Bromodichloromethane	10.0	9.11	91	70-130	
cis-1,3-Dichloropropene	10.0	10.4	104	70-130	
methyl isobutyl ketone	10.0	9.90	99	70-130	
Toluene	10.0	9.76	98	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 15991_003.d

Lab ID: LCS 200-94728/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	10.3	103	70-130	
1,1,2-Trichloroethane	10.0	9.72	97	70-130	
Tetrachloroethene	10.0	10.1	101	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.69	97	70-130	
Dibromochloromethane	10.0	9.49	95	70-130	
1,2-Dibromoethane	10.0	9.99	100	70-130	
Chlorobenzene	10.0	9.77	98	70-130	
Ethylbenzene	10.0	10.5	105	70-130	
m,p-Xylene	20.0	21.0	105	70-130	
Xylene, o-	10.0	11.0	110	70-130	
Styrene	10.0	10.9	109	70-130	
Bromoform	10.0	9.90	99	70-130	
Cumene	10.0	10.8	108	70-130	
1,1,2,2-Tetrachloroethane	10.0	10.0	100	70-130	
n-Propylbenzene	10.0	10.7	107	70-130	
4-Ethyltoluene	10.0	10.9	109	70-130	
1,3,5-Trimethylbenzene	10.0	10.6	106	70-130	
2-Chlorotoluene	10.0	10.1	101	70-130	
tert-Butylbenzene	10.0	10.8	108	70-130	
1,2,4-Trimethylbenzene	10.0	10.8	108	70-130	
sec-Butylbenzene	10.0	10.8	108	70-130	
4-Isopropyltoluene	10.0	11.2	112	70-130	
1,3-Dichlorobenzene	10.0	10.5	105	70-130	
1,4-Dichlorobenzene	10.0	10.7	107	70-130	
Benzyl chloride	10.0	10.1	101	70-130	
n-Butylbenzene	10.0	10.3	103	70-130	
1,2-Dichlorobenzene	10.0	10.6	106	70-130	
1,2,4-Trichlorobenzene	10.0	10.7	107	70-130	
Hexachlorobutadiene	10.0	11.3	113	70-130	
Naphthalene	10.0	9.29	93	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 16024_004.d

Lab ID: LCS 200-94809/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	9.49	95	70-130	
Freon 22	10.0	9.22	92	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.5	105	70-130	
Chloromethane	10.0	8.64	86	70-130	
n-Butane	10.0	8.77	88	70-130	
Vinyl chloride	10.0	9.07	91	70-130	
1,3-Butadiene	10.0	8.68	87	70-130	
Bromomethane	10.0	9.14	91	70-130	
Chloroethane	10.0	9.15	92	70-130	
Bromoethene(Vinyl Bromide)	10.0	9.88	99	70-130	
Trichlorofluoromethane	10.0	9.56	96	70-130	
Freon TF	10.0	9.65	97	70-130	
1,1-Dichloroethene	10.0	10.0	100	70-130	
Acetone	10.0	9.62	96	70-130	
Isopropyl alcohol	10.0	8.85	88	70-130	
Carbon disulfide	10.0	10.8	108	70-130	
3-Chloropropene	10.0	9.35	93	70-130	
Methylene Chloride	10.0	9.12	91	70-130	
tert-Butyl alcohol	10.0	9.21	92	70-130	
Methyl tert-butyl ether	10.0	10.2	102	70-130	
trans-1,2-Dichloroethene	10.0	10.6	106	70-130	
n-Hexane	10.0	11.3	113	70-130	
1,1-Dichloroethane	10.0	9.80	98	70-130	
Methyl Ethyl Ketone	10.0	9.04	90	70-130	
cis-1,2-Dichloroethene	10.0	9.96	100	70-130	
Chloroform	10.0	9.72	97	70-130	
Tetrahydrofuran	10.0	9.67	97	70-130	
1,1,1-Trichloroethane	10.0	10.0	100	70-130	
Cyclohexane	10.0	10.7	107	70-130	
Carbon tetrachloride	10.0	10.2	102	70-130	
2,2,4-Trimethylpentane	10.0	10.6	106	70-130	
Benzene	10.0	9.96	100	70-130	
1,2-Dichloroethane	10.0	10.0	100	70-130	
n-Heptane	10.0	10.6	106	70-130	
Trichloroethene	10.0	10.3	103	70-130	
Methyl methacrylate	10.0	10.2	102	70-130	
1,2-Dichloropropane	10.0	9.64	96	70-130	
1,4-Dioxane	10.0	9.73	97	70-130	
Bromodichloromethane	10.0	9.73	97	70-130	
cis-1,3-Dichloropropene	10.0	10.7	107	70-130	
methyl isobutyl ketone	10.0	9.96	100	70-130	
Toluene	10.0	10.1	101	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 16024_004.d

Lab ID: LCS 200-94809/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	10.4	104	70-130	
1,1,2-Trichloroethane	10.0	9.72	97	70-130	
Tetrachloroethene	10.0	10.3	103	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.74	97	70-130	
Dibromochloromethane	10.0	9.48	95	70-130	
1,2-Dibromoethane	10.0	9.99	100	70-130	
Chlorobenzene	10.0	9.63	96	70-130	
Ethylbenzene	10.0	10.3	103	70-130	
m,p-Xylene	20.0	20.6	103	70-130	
Xylene, o-	10.0	10.8	108	70-130	
Styrene	10.0	10.7	107	70-130	
Bromoform	10.0	9.77	98	70-130	
Cumene	10.0	10.7	107	70-130	
1,1,2,2-Tetrachloroethane	10.0	10.0	100	70-130	
n-Propylbenzene	10.0	10.7	107	70-130	
4-Ethyltoluene	10.0	10.9	109	70-130	
1,3,5-Trimethylbenzene	10.0	10.6	106	70-130	
2-Chlorotoluene	10.0	10.1	101	70-130	
tert-Butylbenzene	10.0	10.9	109	70-130	
1,2,4-Trimethylbenzene	10.0	10.8	108	70-130	
sec-Butylbenzene	10.0	10.9	109	70-130	
4-Isopropyltoluene	10.0	11.2	112	70-130	
1,3-Dichlorobenzene	10.0	10.5	105	70-130	
1,4-Dichlorobenzene	10.0	10.6	106	70-130	
Benzyl chloride	10.0	10.1	101	70-130	
n-Butylbenzene	10.0	10.5	105	70-130	
1,2-Dichlorobenzene	10.0	10.6	106	70-130	
1,2,4-Trichlorobenzene	10.0	10.2	102	70-130	
Hexachlorobutadiene	10.0	11.3	113	70-130	
Naphthalene	10.0	8.94	89	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 16087_03.D

Lab ID: LCS 200-95027/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	9.26	93	70-130	
Freon 22	10.0	8.59	86	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70-130	
Chloromethane	10.0	7.97	80	70-130	
n-Butane	10.0	7.77	78	70-130	
Vinyl chloride	10.0	8.65	86	70-130	
1,3-Butadiene	10.0	7.98	80	70-130	
Bromomethane	10.0	9.23	92	70-130	
Chloroethane	10.0	8.57	86	70-130	
Bromoethene(Vinyl Bromide)	10.0	9.26	93	70-130	
Trichlorofluoromethane	10.0	9.35	94	70-130	
Freon TF	10.0	9.25	93	70-130	
1,1-Dichloroethene	10.0	9.17	92	70-130	
Acetone	10.0	8.63	86	70-130	
Isopropyl alcohol	10.0	7.01	70	70-130	
Carbon disulfide	10.0	10.2	102	70-130	
3-Chloropropene	10.0	7.79	78	70-130	
Methylene Chloride	10.0	7.68	77	70-130	
tert-Butyl alcohol	10.0	7.88	79	70-130	
Methyl tert-butyl ether	10.0	8.85	89	70-130	
trans-1,2-Dichloroethene	10.0	9.09	91	70-130	
n-Hexane	10.0	8.57	86	70-130	
1,1-Dichloroethane	10.0	8.50	85	70-130	
Methyl Ethyl Ketone	10.0	8.06	81	70-130	
cis-1,2-Dichloroethene	10.0	9.09	91	70-130	
Chloroform	10.0	9.14	91	70-130	
Tetrahydrofuran	10.0	7.85	79	70-130	
1,1,1-Trichloroethane	10.0	9.36	94	70-130	
Cyclohexane	10.0	8.82	88	70-130	
Carbon tetrachloride	10.0	9.87	99	70-130	
2,2,4-Trimethylpentane	10.0	8.17	82	70-130	
Benzene	10.0	8.80	88	70-130	
1,2-Dichloroethane	10.0	8.90	89	70-130	
n-Heptane	10.0	7.80	78	70-130	
Trichloroethene	10.0	8.99	90	70-130	
Methyl methacrylate	10.0	9.09	91	70-130	
1,2-Dichloropropane	10.0	8.81	88	70-130	
1,4-Dioxane	10.0	8.58	86	70-130	
Bromodichloromethane	10.0	9.60	96	70-130	
cis-1,3-Dichloropropene	10.0	9.43	94	70-130	
methyl isobutyl ketone	10.0	8.31	83	70-130	
Toluene	10.0	9.30	93	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 16087_03.D

Lab ID: LCS 200-95027/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	9.09	91	70-130	
1,1,2-Trichloroethane	10.0	9.26	93	70-130	
Tetrachloroethene	10.0	10.5	105	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	7.58	76	70-130	
Dibromochloromethane	10.0	10.3	103	70-130	
1,2-Dibromoethane	10.0	9.66	97	70-130	
Chlorobenzene	10.0	9.70	97	70-130	
Ethylbenzene	10.0	9.30	93	70-130	
m,p-Xylene	20.0	18.9	94	70-130	
Xylene, o-	10.0	9.36	94	70-130	
Styrene	10.0	9.49	95	70-130	
Bromoform	10.0	12.8	128	70-130	
Cumene	10.0	9.29	93	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.47	95	70-130	
n-Propylbenzene	10.0	9.18	92	70-130	
4-Ethyltoluene	10.0	9.52	95	70-130	
1,3,5-Trimethylbenzene	10.0	9.34	93	70-130	
2-Chlorotoluene	10.0	9.09	91	70-130	
tert-Butylbenzene	10.0	9.07	91	70-130	
1,2,4-Trimethylbenzene	10.0	8.64	86	70-130	
sec-Butylbenzene	10.0	7.95	79	70-130	
4-Isopropyltoluene	10.0	8.63	86	70-130	
1,3-Dichlorobenzene	10.0	10.2	102	70-130	
1,4-Dichlorobenzene	10.0	10.1	101	70-130	
Benzyl chloride	10.0	7.52	75	70-130	
n-Butylbenzene	10.0	9.31	93	70-130	
1,2-Dichlorobenzene	10.0	8.81	88	70-130	
1,2,4-Trichlorobenzene	10.0	9.23	92	70-130	
Hexachlorobutadiene	10.0	10.5	105	70-130	
Naphthalene	10.0	7.32	73	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 15991_004.d Lab Sample ID: MB 200-94728/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHW.i Date Analyzed: 09/29/2015 12:59

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-94728/3	15991_003.d	09/29/2015 12:10
FR-IA01-092315	200-29972-2	15991_006.d	09/29/2015 14:37
FR-IA02-092315	200-29972-4	15991_008.d	09/29/2015 16:16
FR-IA03-092315	200-29972-6	15991_010.d	09/29/2015 17:55
FR-SS04-092315	200-29972-7	15991_011.d	09/29/2015 18:44
FR-IA04-092315	200-29972-8	15991_012.d	09/29/2015 19:33
FR-SS05-092315	200-29972-9	15991_013.d	09/29/2015 20:23
FR-SS05-092315 DL	200-29972-9 DL	15991_014.d	09/29/2015 21:11
FR-IA05-092315	200-29972-10	15991_015.d	09/29/2015 22:02
FR-IA06-092315	200-29972-12	15991_017.d	09/29/2015 23:40
FR-IA09-092315	200-29972-18	15991_021.d	09/30/2015 03:02
FR-IA10-092315	200-29972-21	15991_022.d	09/30/2015 03:52
FR-AA-092315	200-29972-22	15991_023.d	09/30/2015 04:42
FR-IA01-092315 DL	200-29972-2 DL	15991_024.d	09/30/2015 05:30
FR-IA05-092315 DL	200-29972-10 DL	15991_026.d	09/30/2015 08:03
FR-IA06-092315 DL	200-29972-12 DL	15991_027.d	09/30/2015 08:51
FR-IA07-092315 DL	200-29972-14 DL	15991_028.d	09/30/2015 09:39

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 16024_005.d Lab Sample ID: MB 200-94809/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHW.i Date Analyzed: 09/30/2015 14:27

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-94809/4	16024_004.d	09/30/2015 13:38
FR-IA02-092315 DL	200-29972-4 DL	16024_006.d	09/30/2015 15:15
FR-IA07-092315	200-29972-14	16024_008.d	09/30/2015 16:53
FR-IA08-092315	200-29972-16	16024_009.d	09/30/2015 17:43
FR-IA08-092315 DL	200-29972-16 DL	16024_010.d	09/30/2015 18:31
FR-IA09-092315 DL	200-29972-18 DL	16024_011.d	09/30/2015 19:19
FR-IA10-092315 DL	200-29972-21 DL	16024_012.d	09/30/2015 20:07
FR-SS08-092315	200-29972-15	16024_013.d	09/30/2015 20:57
FR-SS08-092315 DL	200-29972-15 DL	16024_014.d	09/30/2015 21:45

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 16087_04.D Lab Sample ID: MB 200-95027/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHX.i Date Analyzed: 10/05/2015 11:08

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-95027/3	16087_03.D	10/05/2015 10:19
FR-SS01-092315	200-29972-1	16087_18.D	10/05/2015 22:38
FR-SS02-092315	200-29972-3	16087_19.D	10/05/2015 23:27
FR-SS03-092315	200-29972-5	16087_20.D	10/06/2015 00:16
FR-SS06-092315	200-29972-11	16087_21.D	10/06/2015 01:05
FR-SS07-092315	200-29972-13	16087_22.D	10/06/2015 01:55
FR-SS09-092315	200-29972-17	16087_23.D	10/06/2015 02:44
FR-SSDUP-092315	200-29972-19	16087_24.D	10/06/2015 03:33
FR-SS10-092315	200-29972-20	16087_25.D	10/06/2015 04:22

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 15979_001.d BFB Injection Date: 09/28/2015

Instrument ID: CHW.i BFB Injection Time: 14:27

Analysis Batch No.: 94650

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.5	
75	30.0 - 66.0% of mass 95	45.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	116.4	
175	4.0 - 9.0 % of mass 174	8.2	(7.1)1
176	93.0 - 101.0% of mass 174	114.8	(98.7)1
177	5.0 - 9.0% of mass 176	7.6	(6.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-94650/3	15979_003.d	09/28/2015	15:53
	IC 200-94650/4	15979_004.d	09/28/2015	16:42
	IC 200-94650/5	15979_005.d	09/28/2015	17:30
	IC 200-94650/6	15979_006.d	09/28/2015	18:19
	ICIS 200-94650/7	15979_007.d	09/28/2015	19:07
	IC 200-94650/8	15979_008.d	09/28/2015	19:55
	IC 200-94650/9	15979_009.d	09/28/2015	20:44
	IC 200-94650/10	15979_010.d	09/28/2015	21:32
	ICV 200-94650/13	15979_013.d	09/28/2015	23:58

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 15991_001.d BFB Injection Date: 09/29/2015

Instrument ID: CHW.i BFB Injection Time: 10:30

Analysis Batch No.: 94728

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.0	
75	30.0 - 66.0% of mass 95	45.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	110.3	
175	4.0 - 9.0 % of mass 174	7.6	(6.9)1
176	93.0 - 101.0% of mass 174	107.1	(97.1)1
177	5.0 - 9.0% of mass 176	7.2	(6.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-94728/2	15991_002.d	09/29/2015	11:21
	LCS 200-94728/3	15991_003.d	09/29/2015	12:10
	MB 200-94728/4	15991_004.d	09/29/2015	12:59
FR-IA01-092315	200-29972-2	15991_006.d	09/29/2015	14:37
FR-IA02-092315	200-29972-4	15991_008.d	09/29/2015	16:16
FR-IA03-092315	200-29972-6	15991_010.d	09/29/2015	17:55
FR-SS04-092315	200-29972-7	15991_011.d	09/29/2015	18:44
FR-IA04-092315	200-29972-8	15991_012.d	09/29/2015	19:33
FR-SS05-092315	200-29972-9	15991_013.d	09/29/2015	20:23
FR-SS05-092315 DL	200-29972-9 DL	15991_014.d	09/29/2015	21:11
FR-IA05-092315	200-29972-10	15991_015.d	09/29/2015	22:02
FR-IA06-092315	200-29972-12	15991_017.d	09/29/2015	23:40
FR-IA09-092315	200-29972-18	15991_021.d	09/30/2015	03:02
FR-IA10-092315	200-29972-21	15991_022.d	09/30/2015	03:52
FR-AA-092315	200-29972-22	15991_023.d	09/30/2015	04:42
FR-IA01-092315 DL	200-29972-2 DL	15991_024.d	09/30/2015	05:30
FR-IA05-092315 DL	200-29972-10 DL	15991_026.d	09/30/2015	08:03
FR-IA06-092315 DL	200-29972-12 DL	15991_027.d	09/30/2015	08:51
FR-IA07-092315 DL	200-29972-14 DL	15991_028.d	09/30/2015	09:39

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 16024_001.d BFB Injection Date: 09/30/2015

Instrument ID: CHW.i BFB Injection Time: 11:02

Analysis Batch No.: 94809

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.7	
75	30.0 - 66.0% of mass 95	46.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.6	(0.5)1
174	50.0 - 120.0% of mass 95	108.7	
175	4.0 - 9.0 % of mass 174	7.8	(7.2)1
176	93.0 - 101.0% of mass 174	105.6	(97.2)1
177	5.0 - 9.0% of mass 176	6.9	(6.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-94809/3	16024_003.d	09/30/2015	12:48
	LCS 200-94809/4	16024_004.d	09/30/2015	13:38
	MB 200-94809/5	16024_005.d	09/30/2015	14:27
FR-IA02-092315 DL	200-29972-4 DL	16024_006.d	09/30/2015	15:15
FR-IA07-092315	200-29972-14	16024_008.d	09/30/2015	16:53
FR-IA08-092315	200-29972-16	16024_009.d	09/30/2015	17:43
FR-IA08-092315 DL	200-29972-16 DL	16024_010.d	09/30/2015	18:31
FR-IA09-092315 DL	200-29972-18 DL	16024_011.d	09/30/2015	19:19
FR-IA10-092315 DL	200-29972-21 DL	16024_012.d	09/30/2015	20:07
FR-SS08-092315	200-29972-15	16024_013.d	09/30/2015	20:57
FR-SS08-092315 DL	200-29972-15 DL	16024_014.d	09/30/2015	21:45

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 15313_01.D BFB Injection Date: 08/17/2015

Instrument ID: CHX.i BFB Injection Time: 15:35

Analysis Batch No.: 92823

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	12.1	
75	30.0 - 66.0% of mass 95	39.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.8	(0.8)1
174	50.0 - 120.0% of mass 95	103.8	
175	4.0 - 9.0 % of mass 174	7.5	(7.2)1
176	93.0 - 101.0% of mass 174	101.5	(97.8)1
177	5.0 - 9.0% of mass 176	6.4	(6.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-92823/4	15313_04.D	08/17/2015	18:04
	IC 200-92823/5	15313_05.D	08/17/2015	18:54
	IC 200-92823/6	15313_06.D	08/17/2015	19:44
	IC 200-92823/7	15313_07.D	08/17/2015	20:33
	ICIS 200-92823/8	15313_08.D	08/17/2015	21:23
	IC 200-92823/9	15313_09.D	08/17/2015	22:13
	IC 200-92823/10	15313_10.D	08/17/2015	23:02
	IC 200-92823/11	15313_11.D	08/17/2015	23:52
	ICV 200-92823/15	15313_15.D	08/18/2015	03:10

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab File ID: 16087_01.D BFB Injection Date: 10/05/2015

Instrument ID: CHX.i BFB Injection Time: 08:39

Analysis Batch No.: 95027

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	11.5	
75	30.0 - 66.0% of mass 95	38.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.8	(0.7)1
174	50.0 - 120.0% of mass 95	117.6	
175	4.0 - 9.0 % of mass 174	8.3	(7.1)1
176	93.0 - 101.0% of mass 174	114.8	(97.6)1
177	5.0 - 9.0% of mass 176	7.5	(6.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-95027/2	16087_02.D	10/05/2015	09:29
	LCS 200-95027/3	16087_03.D	10/05/2015	10:19
	MB 200-95027/4	16087_04.D	10/05/2015	11:08
FR-SS01-092315	200-29972-1	16087_18.D	10/05/2015	22:38
FR-SS02-092315	200-29972-3	16087_19.D	10/05/2015	23:27
FR-SS03-092315	200-29972-5	16087_20.D	10/06/2015	00:16
FR-SS06-092315	200-29972-11	16087_21.D	10/06/2015	01:05
FR-SS07-092315	200-29972-13	16087_22.D	10/06/2015	01:55
FR-SS09-092315	200-29972-17	16087_23.D	10/06/2015	02:44
FR-SSDUP-092315	200-29972-19	16087_24.D	10/06/2015	03:33
FR-SS10-092315	200-29972-20	16087_25.D	10/06/2015	04:22

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Sample No.: ICIS 200-94650/7 Date Analyzed: 09/28/2015 19:07

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15979_007.d Heated Purge: (Y/N) N

Calibration ID: 32166

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		210941	13.11	972089	15.02	918256	20.73
UPPER LIMIT		295317	13.44	1360925	15.35	1285558	21.06
LOWER LIMIT		126565	12.78	583253	14.69	550954	20.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-94650/13		201872	13.11	933185	15.02	878633	20.73

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Sample No.: CCVIS 200-94728/2 Date Analyzed: 09/29/2015 11:21

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15991_002.d Heated Purge: (Y/N) N

Calibration ID: 32166

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		196060	13.11	902757	15.02	847098	20.73
UPPER LIMIT		274484	13.44	1263860	15.35	1185937	21.06
LOWER LIMIT		117636	12.78	541654	14.69	508259	20.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-94728/3		202108	13.11	939576	15.02	876804	20.73
MB 200-94728/4		179082	13.10	853654	15.01	791759	20.73
200-29972-2	FR-IA01-092315	141007	13.11	698165	15.02	718776	20.73
200-29972-4	FR-IA02-092315	167116	13.11	846884	15.02	852851	20.73
200-29972-6	FR-IA03-092315	155419	13.11	747905	15.02	747268	20.73
200-29972-7	FR-SS04-092315	125810	13.11	603301	15.02	620555	20.73
200-29972-8	FR-IA04-092315	158213	13.11	751158	15.02	753461	20.73
200-29972-9	FR-SS05-092315	167777	13.11	781045	15.02	745275	20.73
200-29972-9 DL	FR-SS05-092315 DL	146098	13.11	685466	15.01	659261	20.73
200-29972-10	FR-IA05-092315	133735	13.11	626225	15.01	594327	20.73
200-29972-12	FR-IA06-092315	136886	13.11	640049	15.01	590870	20.73
200-29972-18	FR-IA09-092315	120485	13.11	569555	15.02	652544	20.73
200-29972-21	FR-IA10-092315	147813	13.11	687345	15.02	672915	20.73
200-29972-22	FR-AA-092315	144732	13.11	694088	15.02	673514	20.73
200-29972-2 DL	FR-IA01-092315 DL	124053	13.11	618382	15.02	623609	20.73
200-29972-10 DL	FR-IA05-092315 DL	206544	13.11	959113	15.01	886956	20.73
200-29972-12 DL	FR-IA06-092315 DL	167135	13.11	773758	15.01	734959	20.73
200-29972-14 DL	FR-IA07-092315 DL	153531	13.11	713622	15.01	656294	20.73

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Sample No.: CCVIS 200-94809/3 Date Analyzed: 09/30/2015 12:48

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 16024_003.d Heated Purge: (Y/N) N

Calibration ID: 32166

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		183746	13.11	845697	15.02	792184	20.73
UPPER LIMIT		257244	13.44	1183976	15.35	1109058	21.06
LOWER LIMIT		110248	12.78	507418	14.69	475310	20.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-94809/4		193880	13.10	896041	15.02	840501	20.73
MB 200-94809/5		183666	13.10	883490	15.01	818365	20.73
200-29972-4 DL	FR-IA02-092315 DL	151818	13.10	723670	15.01	718598	20.73
200-29972-14	FR-IA07-092315	172829	13.11	803804	15.02	776126	20.73
200-29972-16	FR-IA08-092315	163745	13.11	763467	15.02	740231	20.73
200-29972-16 DL	FR-IA08-092315 DL	135818	13.11	635401	15.01	594101	20.73
200-29972-18 DL	FR-IA09-092315 DL	173799	13.11	801127	15.01	729817	20.73
200-29972-21 DL	FR-IA10-092315 DL	146144	13.11	677274	15.02	645312	20.73
200-29972-15	FR-SS08-092315	154958	13.11	727524	15.02	665174	20.73
200-29972-15 DL	FR-SS08-092315 DL	126411	13.10	585631	15.01	535264	20.73

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Sample No.: ICIS 200-92823/8 Date Analyzed: 08/17/2015 21:23

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15313_08.D Heated Purge: (Y/N) N

Calibration ID: 31716

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		178277	10.28	967745	12.27	948006	18.46
UPPER LIMIT		249588	10.61	1354843	12.60	1327208	18.79
LOWER LIMIT		106966	9.95	580647	11.94	568804	18.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-92823/15		188633	10.29	1018364	12.27	989108	18.46

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Sample No.: CCVIS 200-95027/2 Date Analyzed: 10/05/2015 09:29

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 16087_02.D Heated Purge: (Y/N) N

Calibration ID: 31716

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		184168	10.28	1000829	12.26	1009002	18.45
UPPER LIMIT		257835	10.61	1401161	12.59	1412603	18.78
LOWER LIMIT		110501	9.95	600497	11.93	605401	18.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-95027/3		184441	10.28	999275	12.26	1010485	18.45
MB 200-95027/4		176112	10.28	980825	12.26	989408	18.45
200-29972-1	FR-SS01-092315	150067	10.28	822695	12.26	833321	18.44
200-29972-3	FR-SS02-092315	146152	10.28	806961	12.25	813762	18.44
200-29972-5	FR-SS03-092315	146788	10.28	807946	12.26	825915	18.44
200-29972-11	FR-SS06-092315	141307	10.28	781077	12.26	782887	18.45
200-29972-13	FR-SS07-092315	139516	10.27	764238	12.25	765709	18.44
200-29972-17	FR-SS09-092315	133243	10.28	727848	12.26	733504	18.44
200-29972-19	FR-SSDUP-092315	133537	10.28	730044	12.26	743996	18.45
200-29972-20	FR-SS10-092315	132276	10.27	734377	12.25	743584	18.44

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS01-092315 | Lab Sample ID: 200-29972-1

Matrix: Air | Lab File ID: 16087_18.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 22:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.48	J	0.50	0.080
75-45-6	Freon 22	86.47	0.12	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.13	J	0.50	0.093
106-97-8	n-Butane	58.12	5.4		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	17		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.76		0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.35	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	1.5		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.72		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	5.3		0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	3.1		0.20	0.046
110-82-7	Cyclohexane	84.16	0.51		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.040	U	0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.043	J	0.20	0.039
71-43-2	Benzene	78.11	1.1		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS01-092315 | Lab Sample ID: 200-29972-1

Matrix: Air | Lab File ID: 16087_18.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 22:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.93		0.20	0.040
79-01-6	Trichloroethene	131.39	2.0		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.15	J	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	3.3		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	2.2		0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.070	J	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.088	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.46	J	0.50	0.071
95-47-6	Xylene, o-	106.17	0.13	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.59	J	0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.065	J	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS01-092315 Lab Sample ID: 200-29972-1

Matrix: Air Lab File ID: 16087_18.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 22:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.15	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS01-092315 | Lab Sample ID: 200-29972-1

Matrix: Air | Lab File ID: 16087_18.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 22:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.4	J	2.5	0.40
75-45-6	Freon 22	86.47	0.44	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	0.26	J	1.0	0.19
106-97-8	n-Butane	58.12	13		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	41		12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	2.4		1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.2	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	5.3		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	2.1		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	26		0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	17		1.1	0.25
110-82-7	Cyclohexane	84.16	1.8		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.25	U	0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	0.93	0.18
71-43-2	Benzene	78.11	3.5		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS01-092315 | Lab Sample ID: 200-29972-1

Matrix: Air | Lab File ID: 16087_18.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 22:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	3.8		0.82	0.16
79-01-6	Trichloroethene	131.39	11		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.0	J	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	12		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	15		1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.29	J	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.38	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.0	J	2.2	0.31
95-47-6	Xylene, o-	106.17	0.56	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	2.6	J	3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.32	J	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS01-092315 Lab Sample ID: 200-29972-1

Matrix: Air Lab File ID: 16087_18.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 22:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	0.81	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D
Lims ID: 200-29972-A-1 Lab Sample ID: 200-29972-1
Client ID: FR-SS01-092315
Sample Type: Client
Inject. Date: 05-Oct-2015 22:38:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-018
Misc. Info.: 29972-1
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 10:19:55 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 10:19:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.167	3.172	-0.005	99	13997	0.4795	
3 Chlorodifluoromethane	51	3.220	3.226	-0.006	96	1748	0.1238	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50	3.573	3.579	-0.006	95	1052	0.1281	
6 Butane	43	3.760	3.771	-0.011	99	72426	5.37	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.242	5.259	-0.017	55	8804	0.2735	
18 1,1,2-Trichloro-1,2,2-trif	101	6.291	6.296	-0.005	86	1859	0.0721	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43	6.601	6.612	-0.011	88	229224	17.5	
22 Carbon disulfide	76	6.735	6.746	-0.011	98	23262	0.7599	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.409	7.414	-0.005	80	3817	0.3451	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.195	8.212	-0.017	89	24879	1.51	
33 1,1-Dichloroethane	63		8.709				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72	9.929	9.881	0.048	96	5049	0.7243	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.276	10.282	-0.006	73	150067	10.0	
39 Tetrahydrofuran	42		10.298				ND	
41 Chloroform	83	10.399	10.410	-0.011	99	146449	5.25	
42 Cyclohexane	84	10.646	10.651	-0.005	73	10484	0.5091	M
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	97	92925	3.10	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117	10.940	10.929	0.011	55	793	0.0254	
	45 Isooctane	57	11.362	11.368	-0.006	43	2967	0.0431	
	46 Benzene	78	11.411	11.411	0.000	94	53367	1.11	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43	11.748	11.753	-0.005	84	21661	0.9346	
*	50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	91	822695	10.0	
	52 Trichloroethene	95	12.732	12.743	-0.011	91	49476	2.04	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83	13.887	13.904	-0.017	97	5242	0.1529	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.193				ND	
	62 Toluene	92	15.466	15.476	-0.010	93	140663	3.31	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.573	16.579	-0.006	93	92745	2.19	
	70 2-Hexanone	43	16.980	16.953	0.027	91	2206	0.0700	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.440	18.446	-0.006	81	833321	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91	18.649	18.649	0.000	94	8050	0.0880	
	77 m-Xylene & p-Xylene	106	18.900	18.906	-0.006	99	17594	0.4561	
	78 o-Xylene	106	19.713	19.719	-0.006	96	4948	0.1298	
	79 Styrene	104		19.767				ND	
S	80 Xylenes, Total	106				0		0.5859	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105	20.350	20.355	-0.005	81	904	0.008312	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91	21.040	21.035	0.005	95	1567	0.0124	
	89 4-Ethyltoluene	105	21.211	21.217	-0.006	95	1594	0.0145	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105	21.313	21.318	-0.005	92	3184	0.0351	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105	21.880	21.880	0.000	94	5894	0.0648	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119		22.297				ND	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91		22.886				ND	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128	26.192	26.197	-0.005	99	18065	0.1542	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

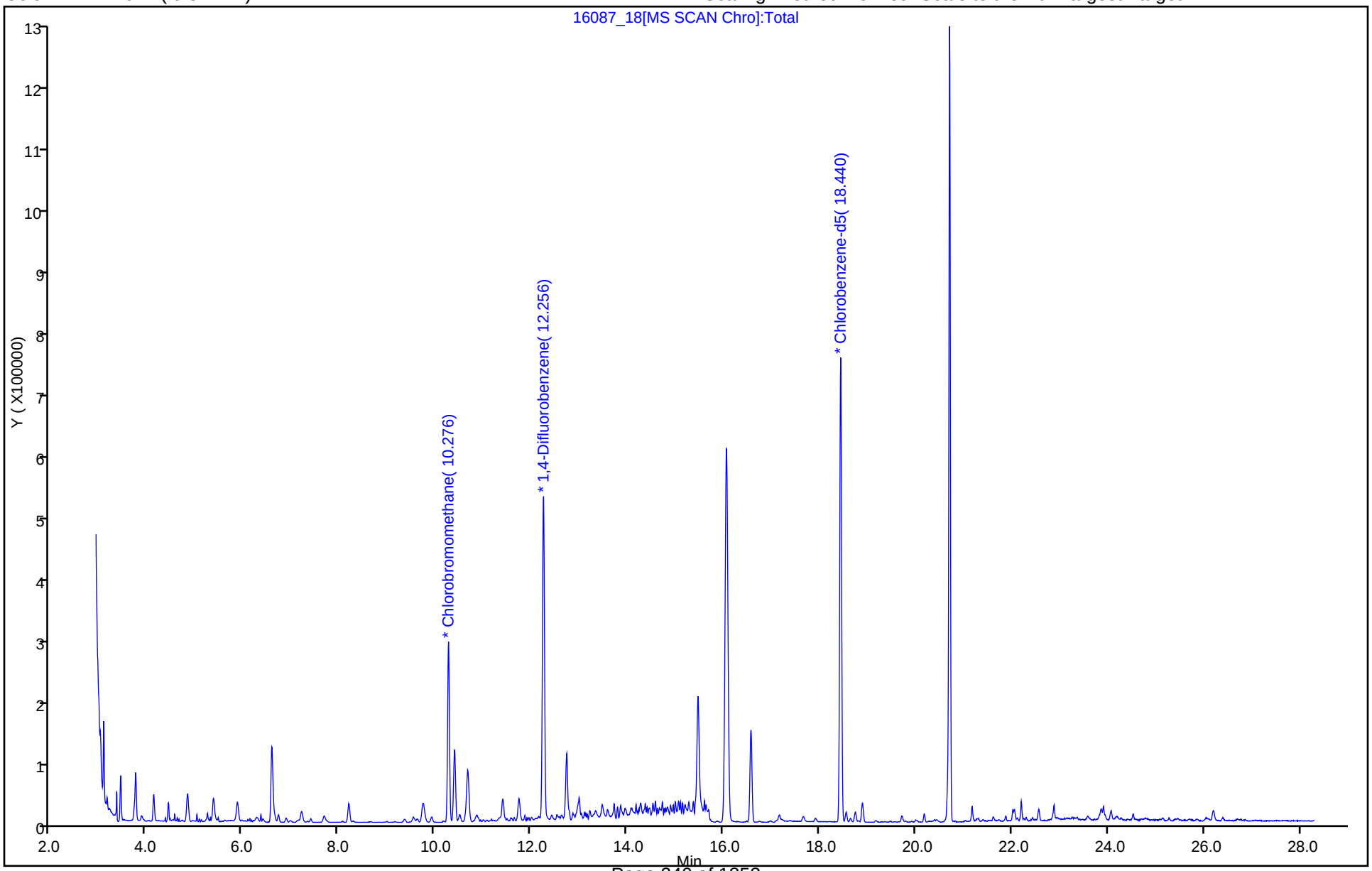
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1	Worklist Smp#:	18
Client ID:	FR-SS01-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



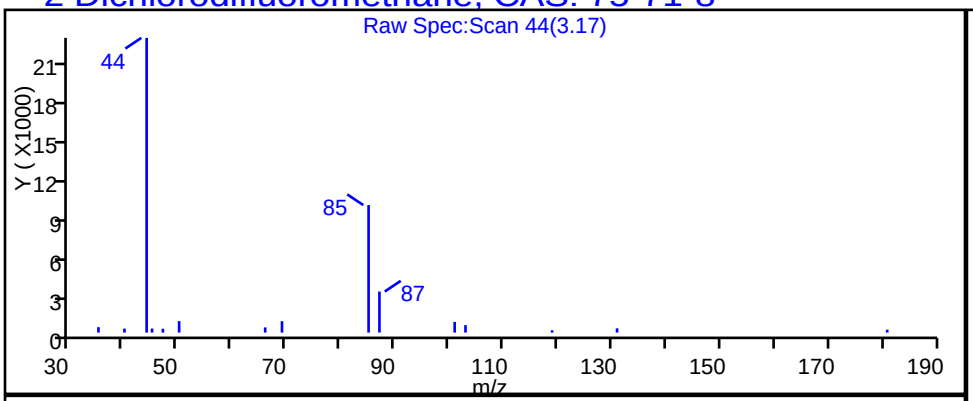
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

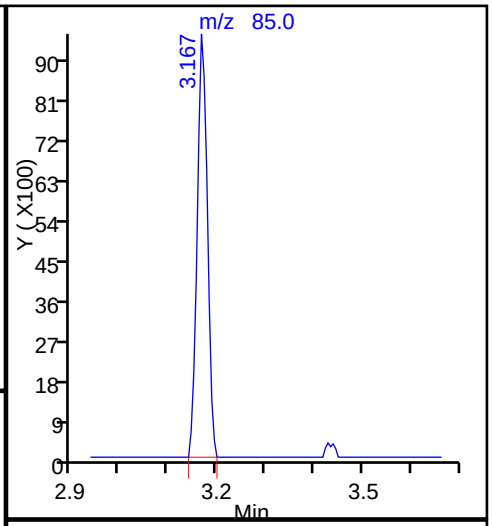
TestAmerica Burlington

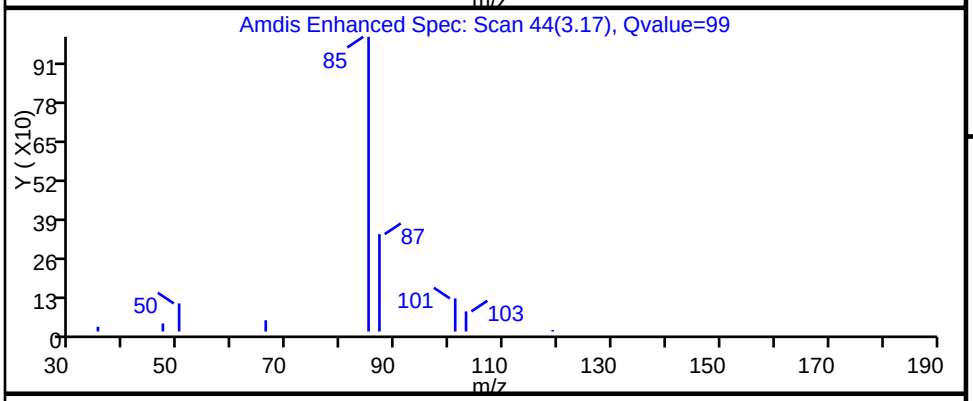
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

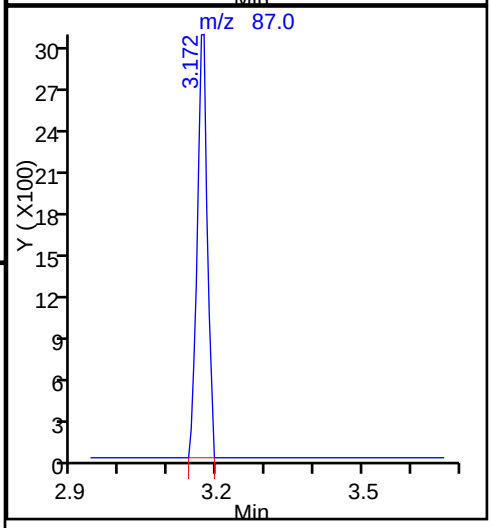
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

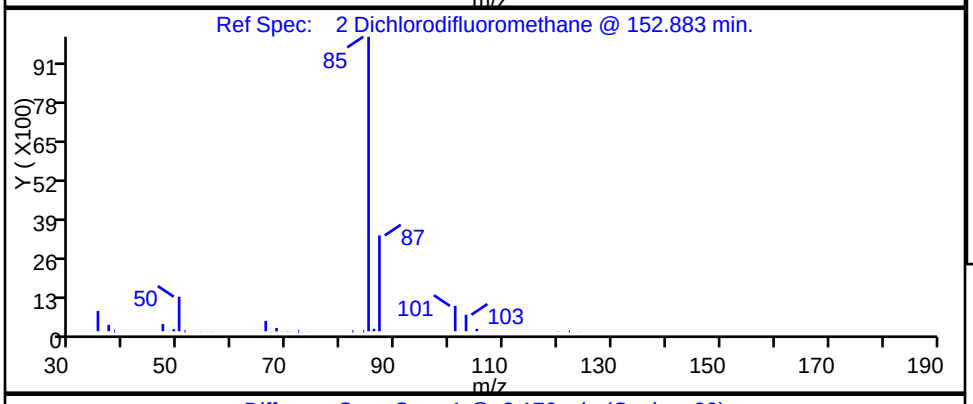
2 Dichlorodifluoromethane, CAS: 75-71-8

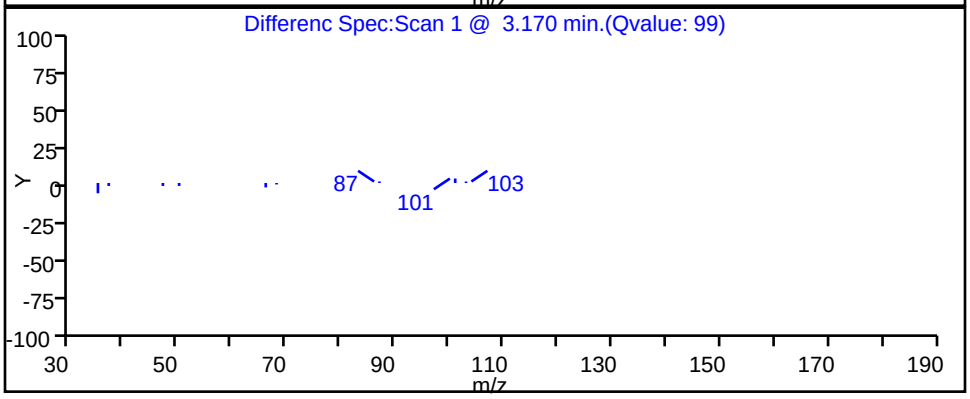












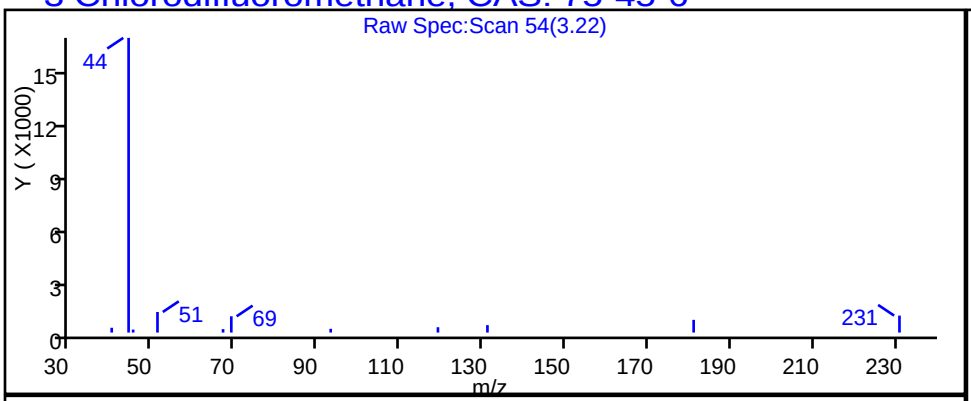
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

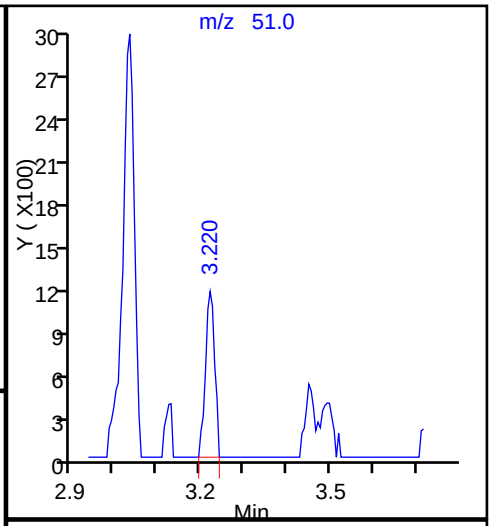
TestAmerica Burlington

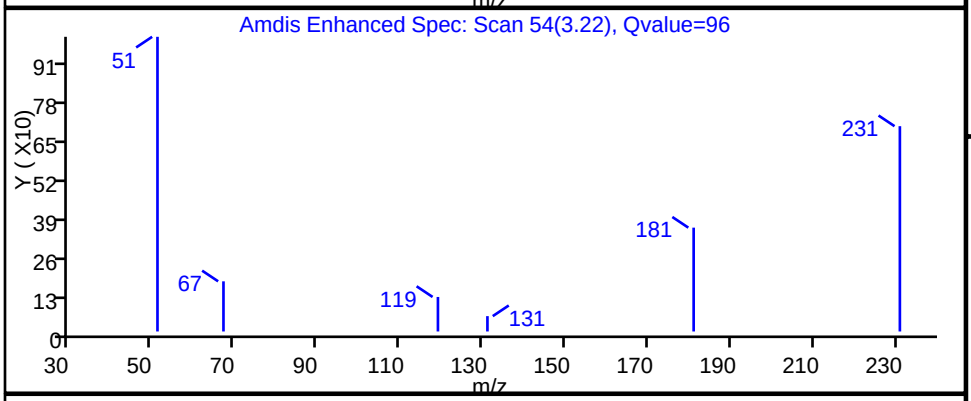
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

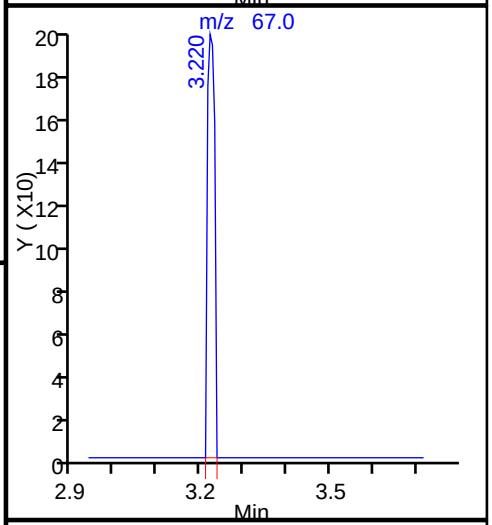
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

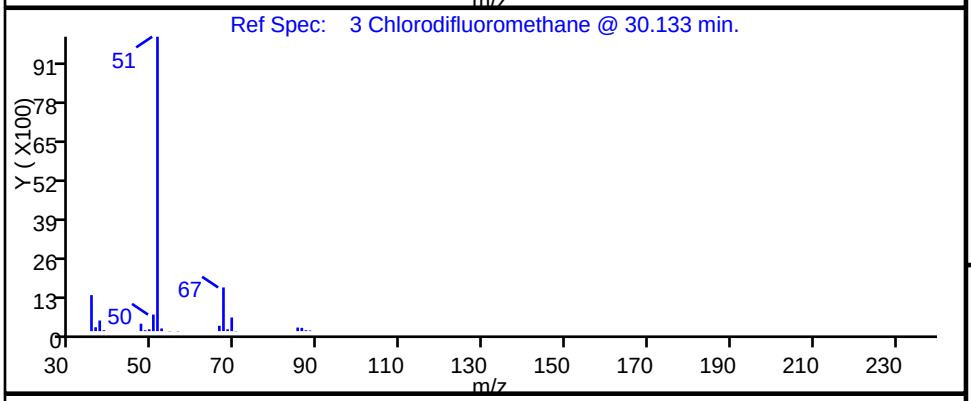
3 Chlorodifluoromethane, CAS: 75-45-6

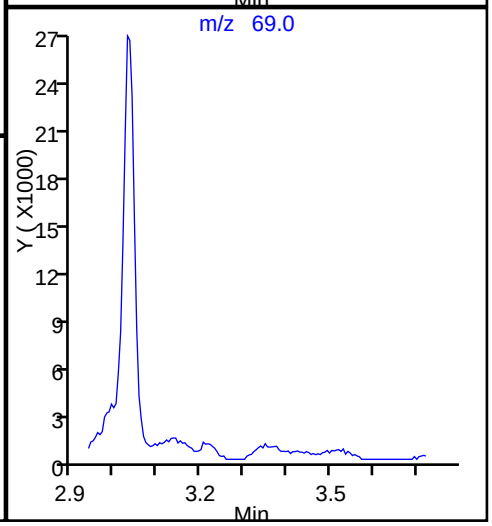


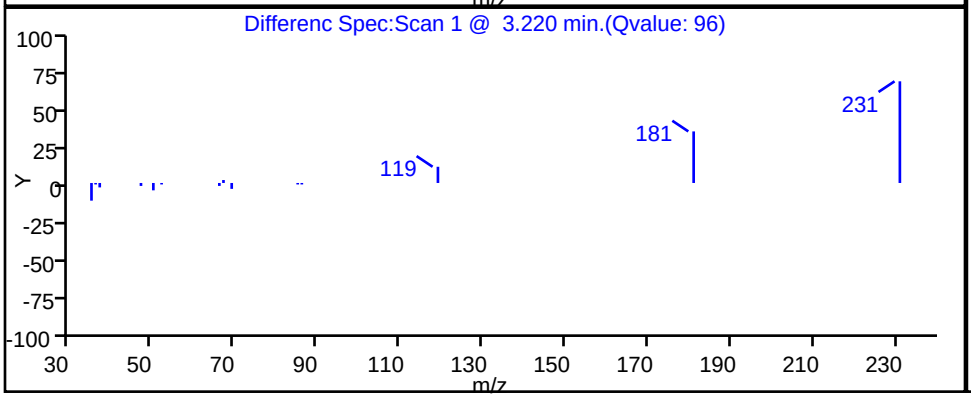












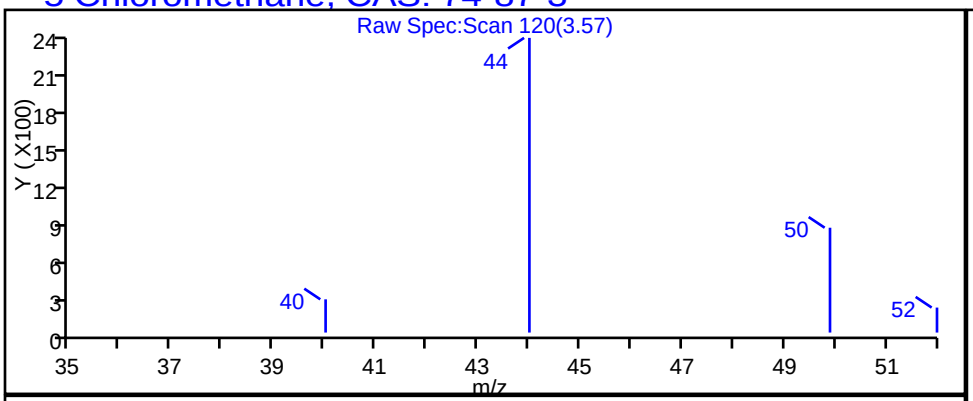
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

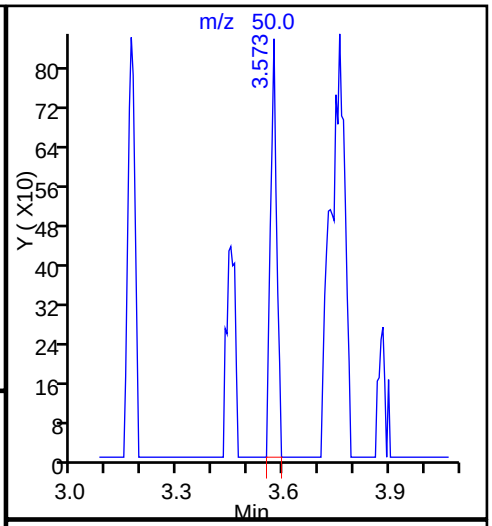
TestAmerica Burlington

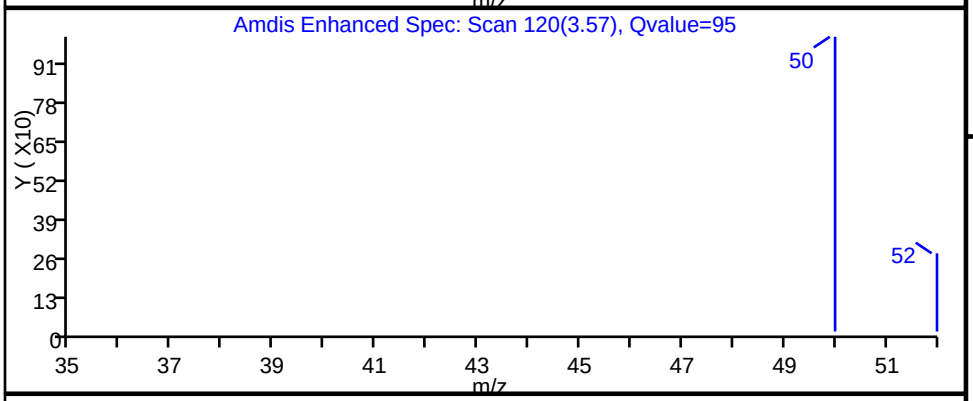
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

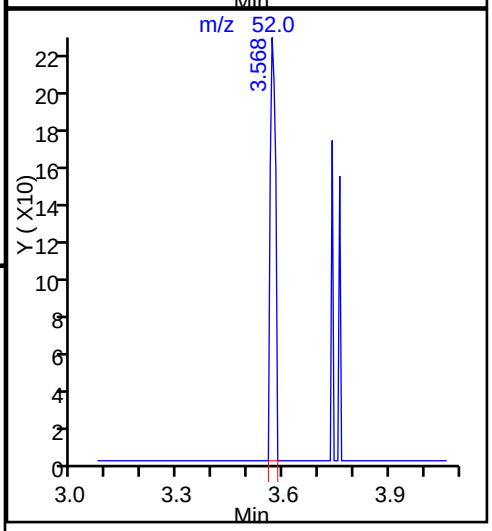
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

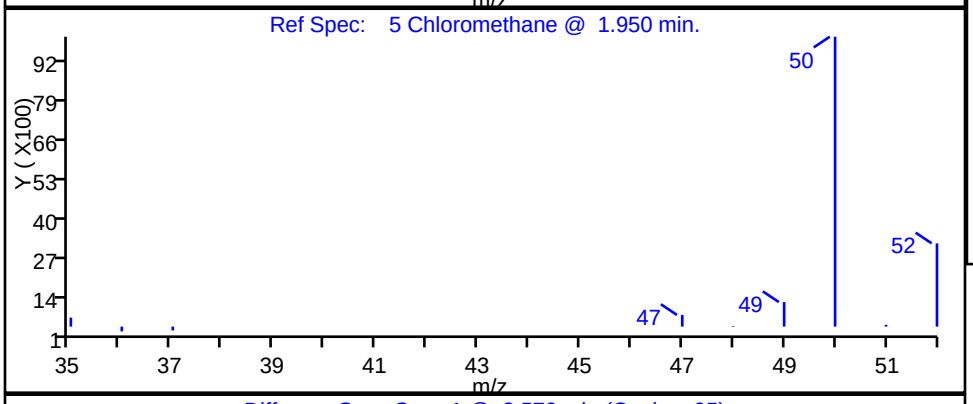
5 Chloromethane, CAS: 74-87-3

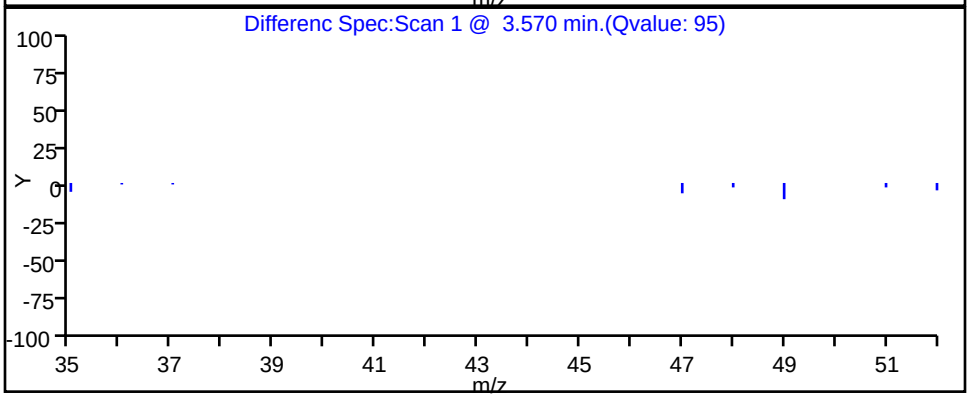












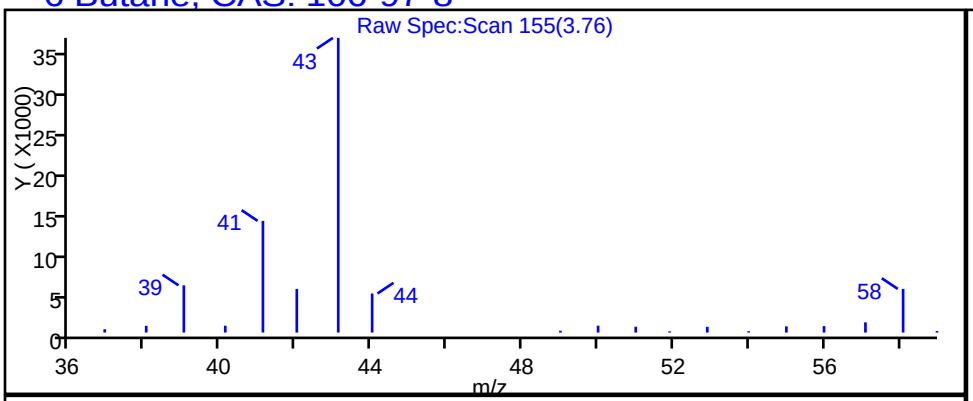
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

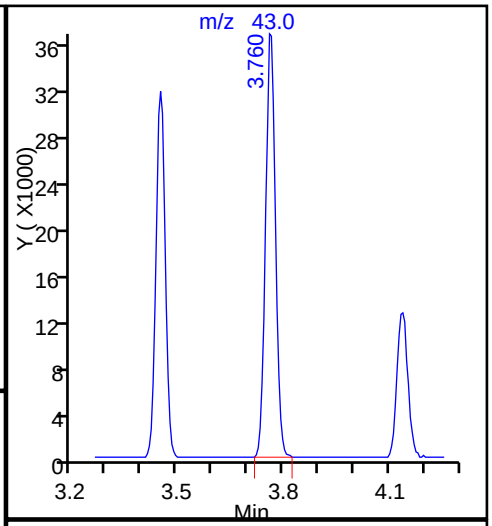
TestAmerica Burlington

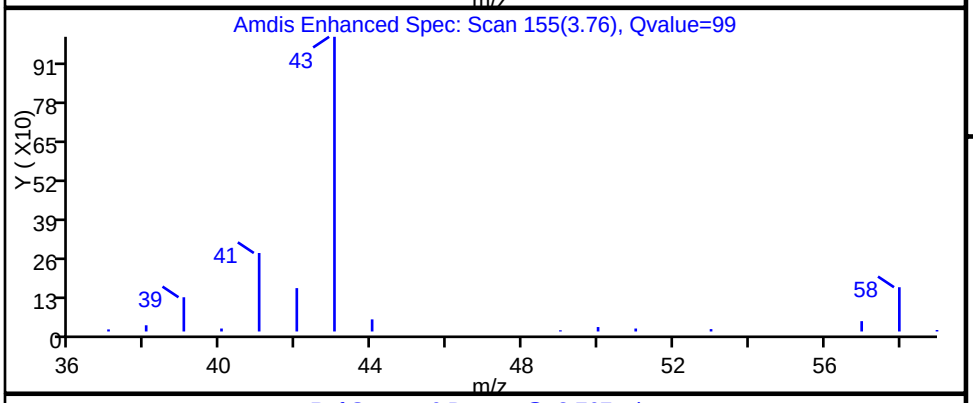
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

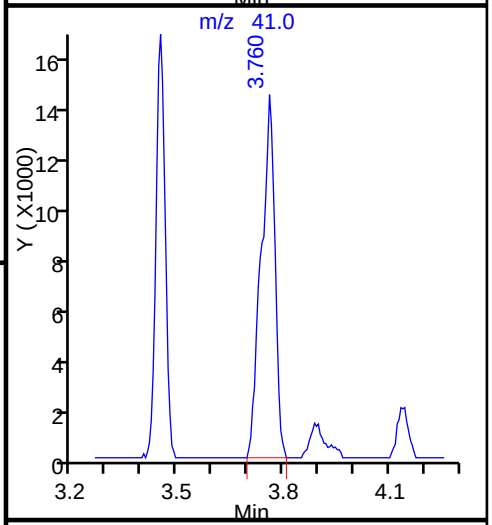
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

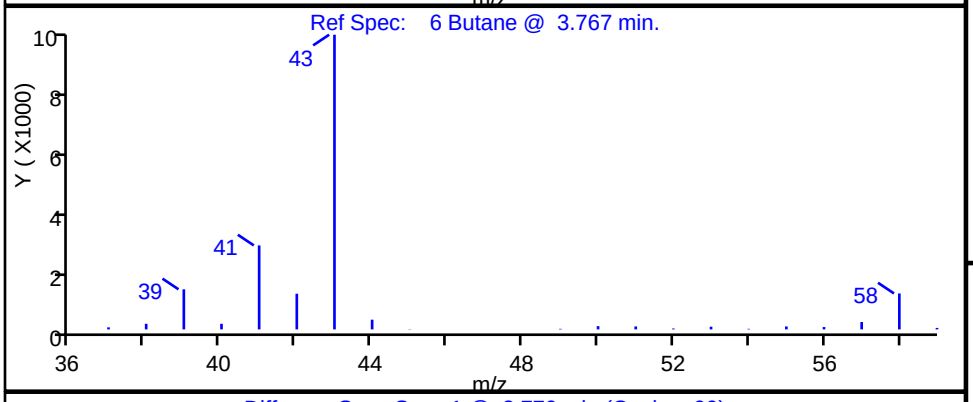
6 Butane, CAS: 106-97-8

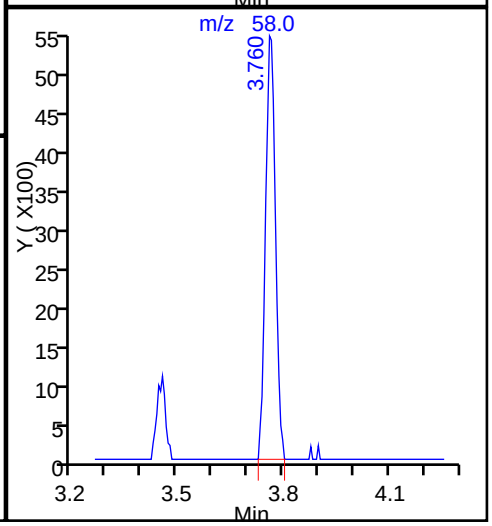


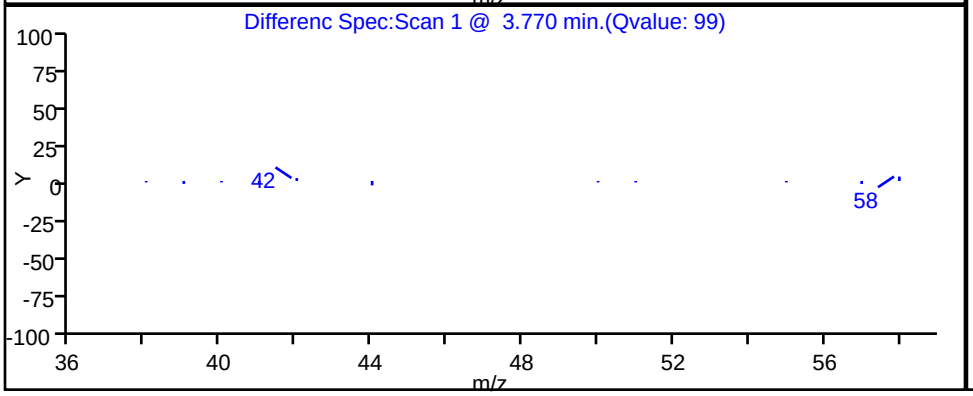












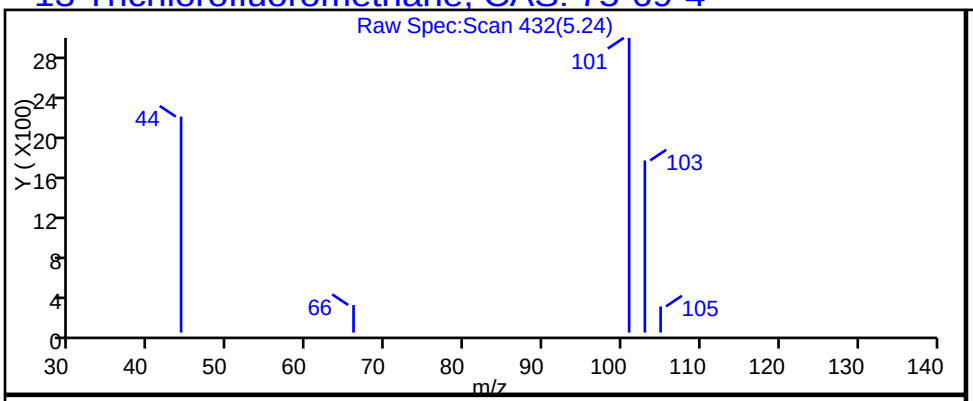
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

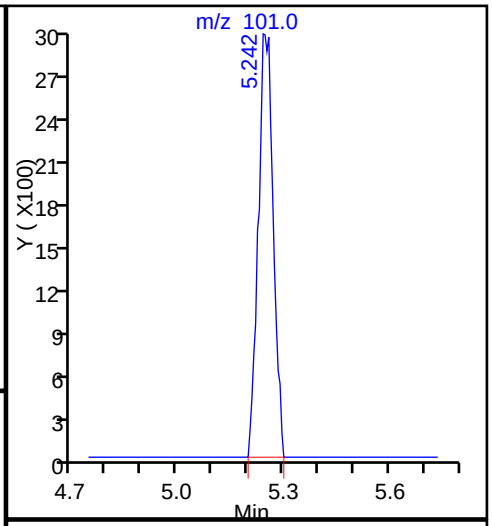
TestAmerica Burlington

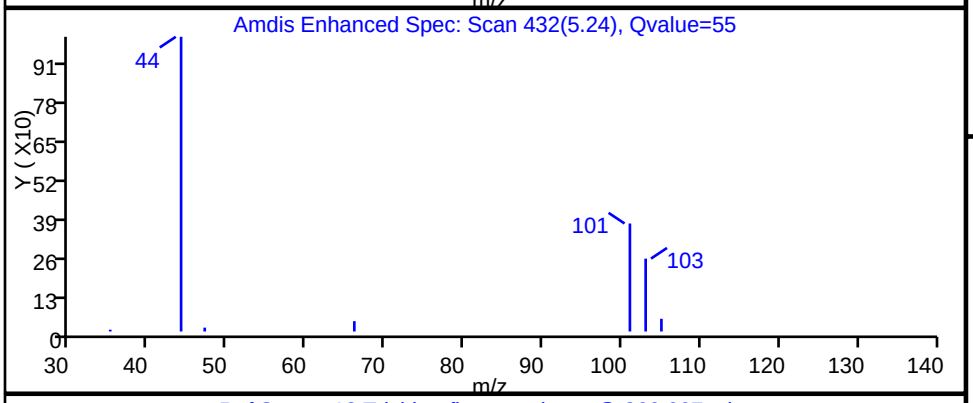
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

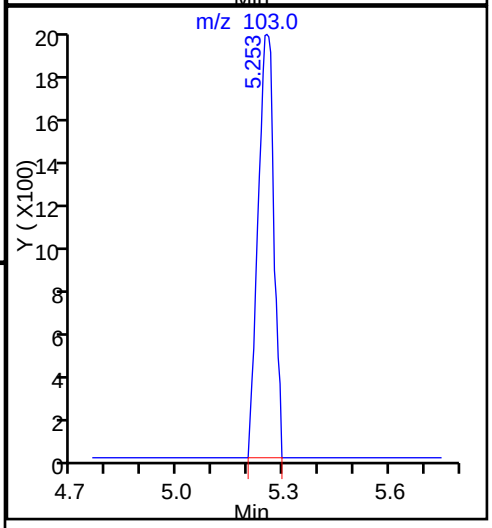
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

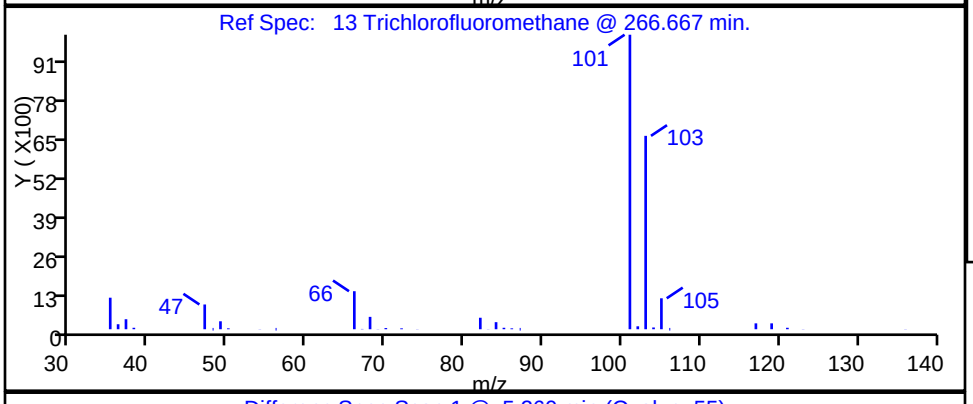
13 Trichlorofluoromethane, CAS: 75-69-4

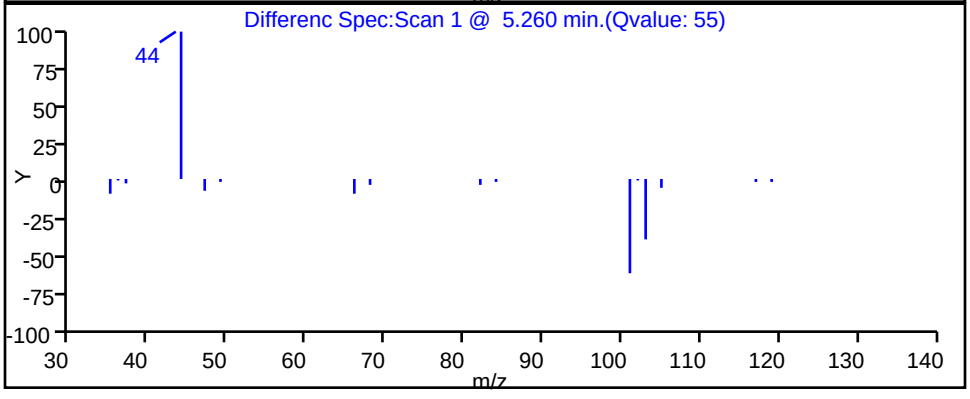












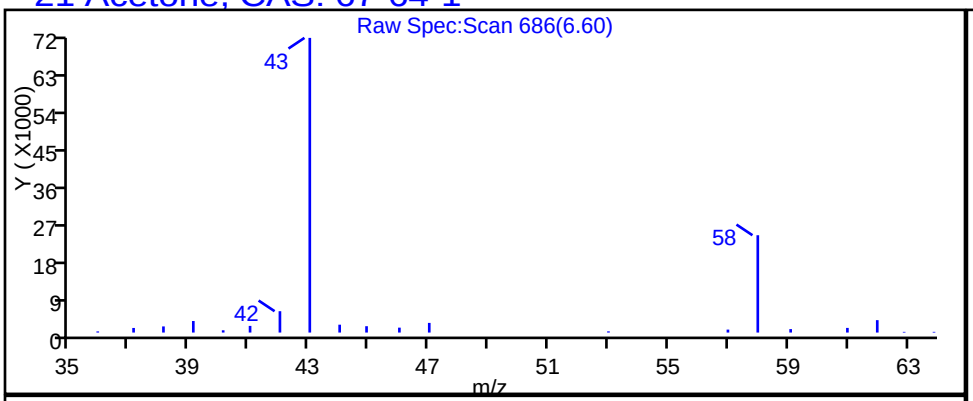
Report Date: 06-Oct-2015 10:19:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

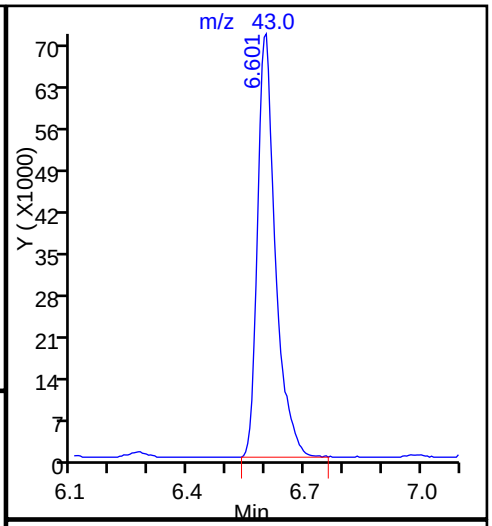
TestAmerica Burlington

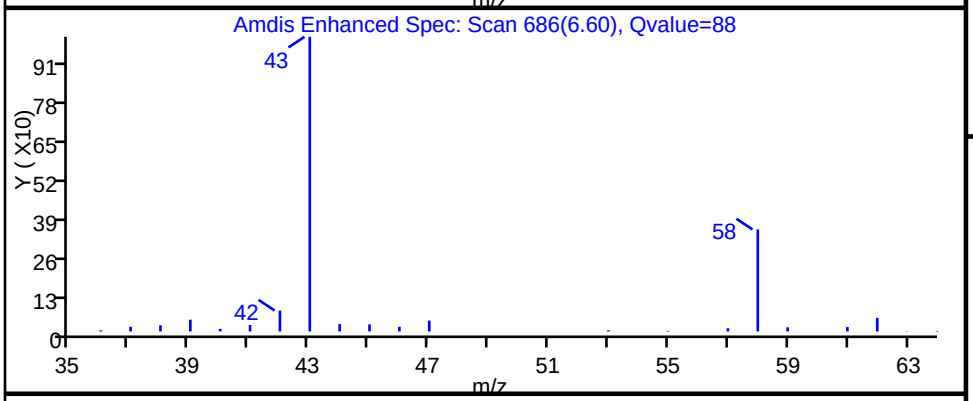
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

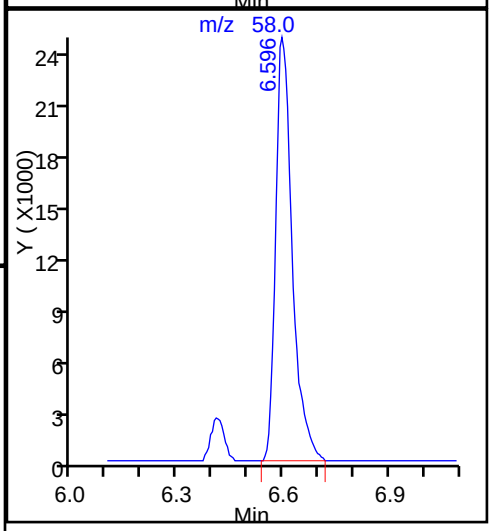
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

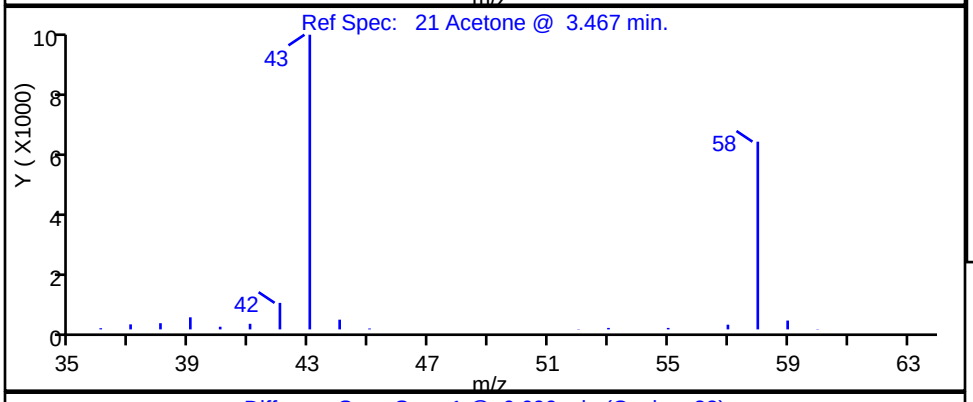
21 Acetone, CAS: 67-64-1

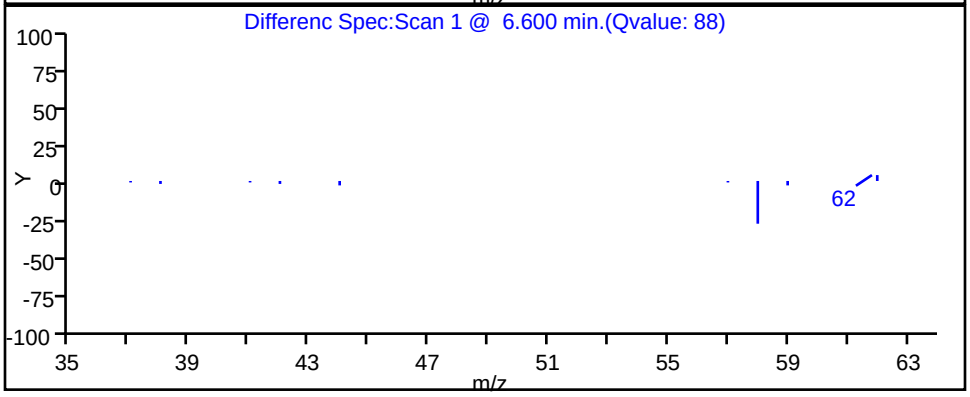












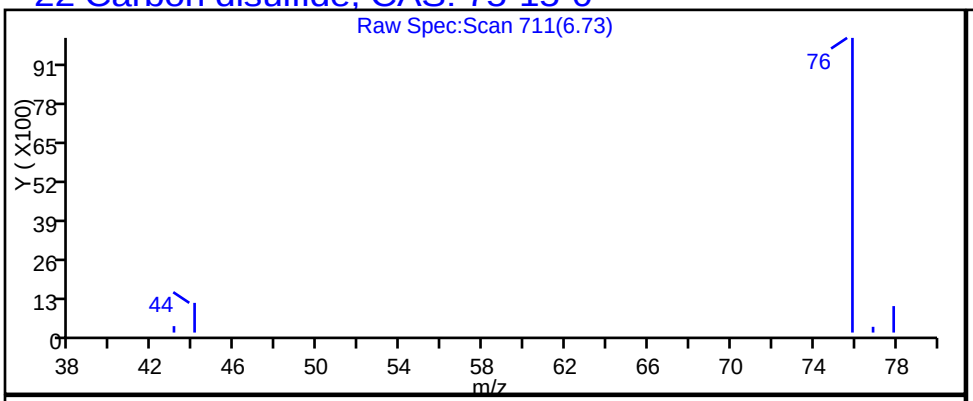
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

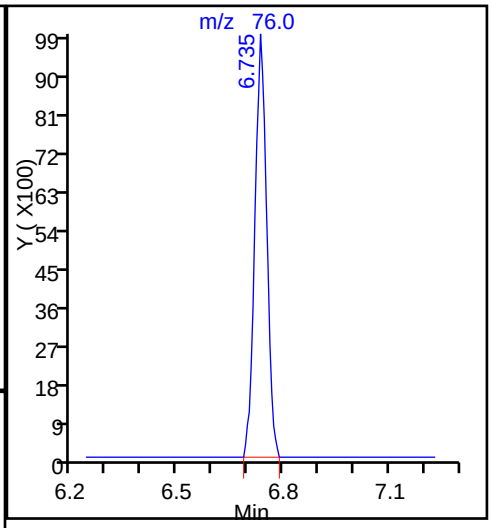
TestAmerica Burlington

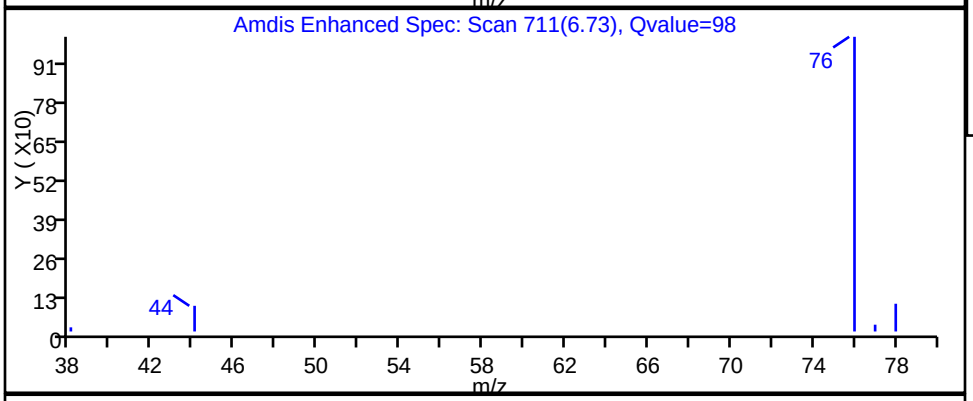
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

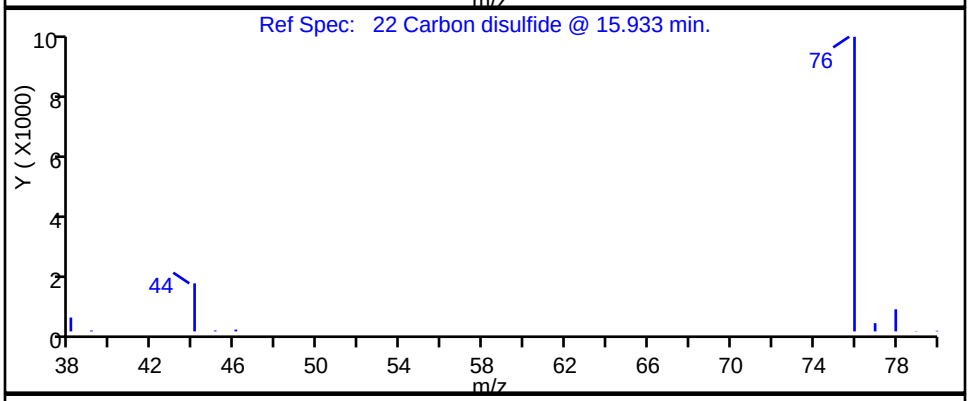
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

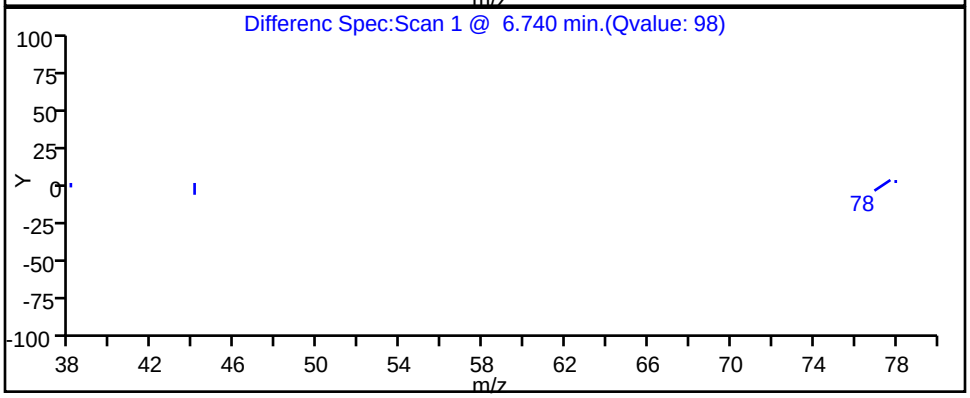
22 Carbon disulfide, CAS: 75-15-0











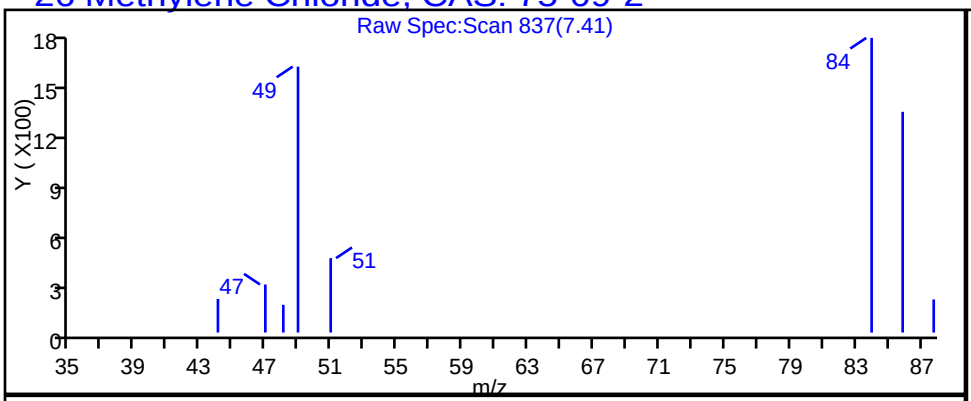
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

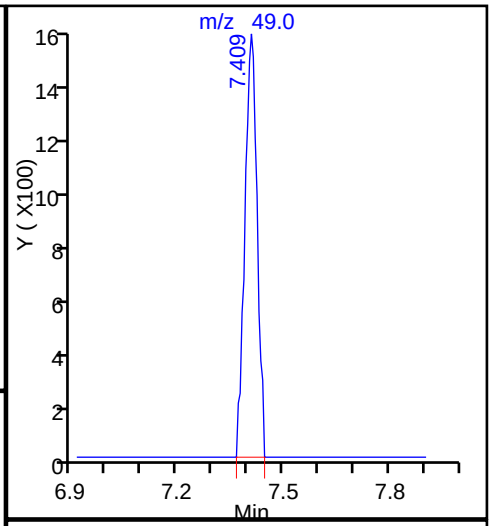
TestAmerica Burlington

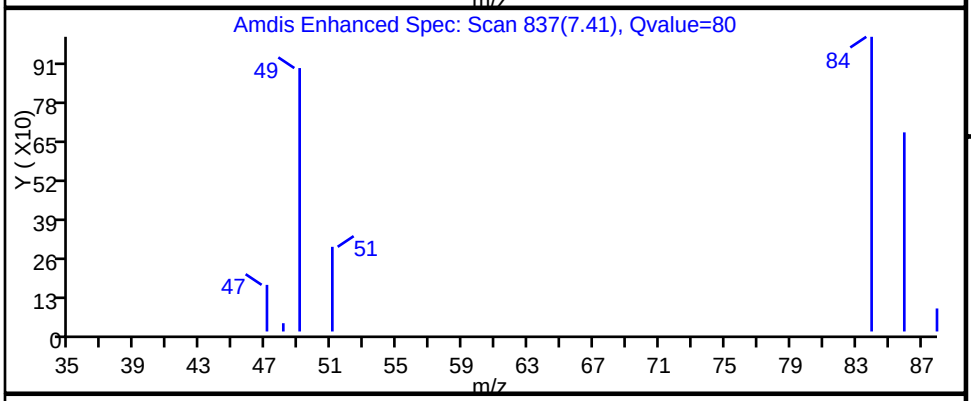
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

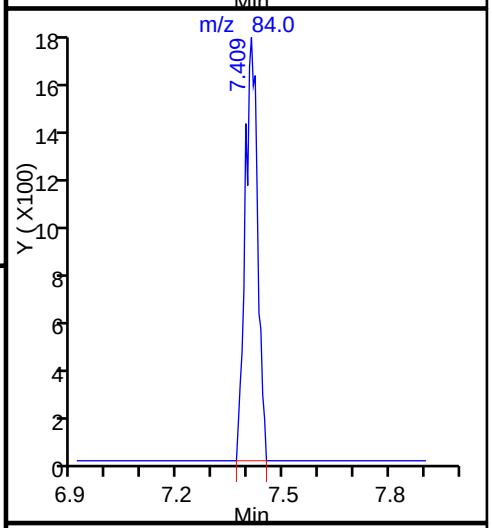
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

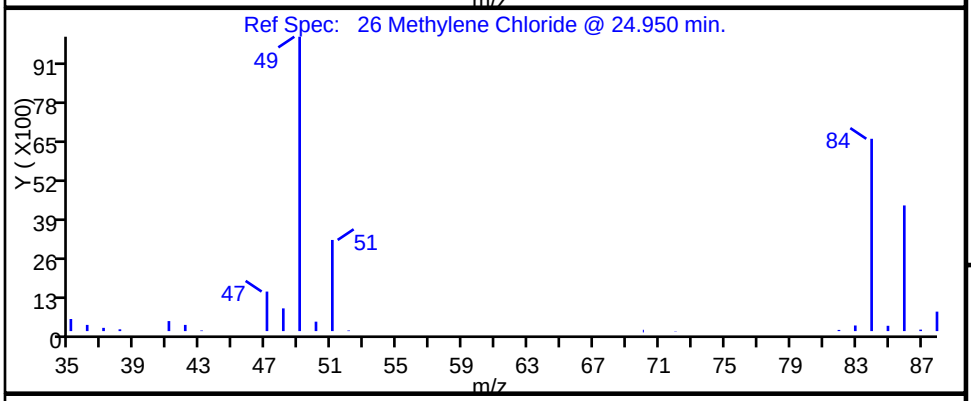
26 Methylene Chloride, CAS: 75-09-2

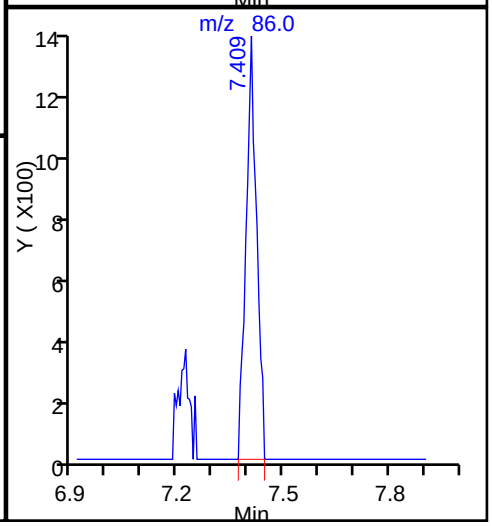


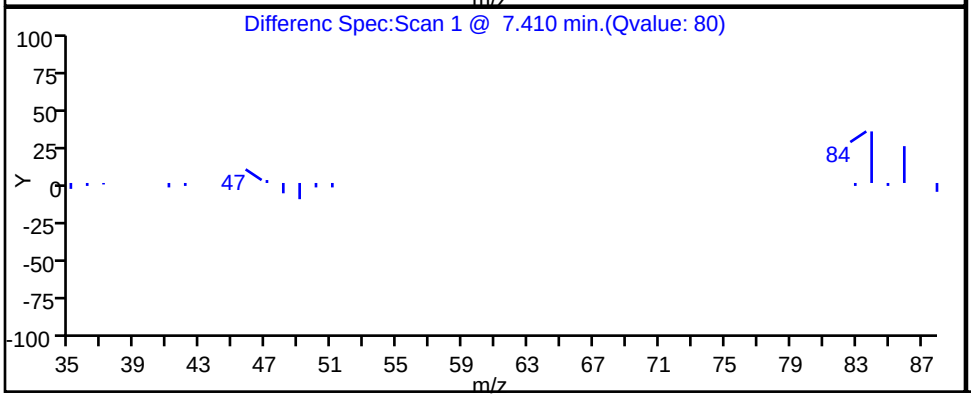












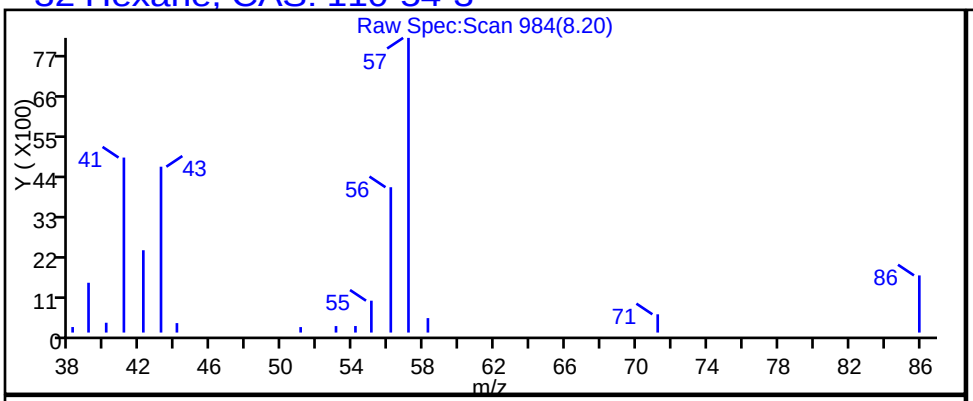
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

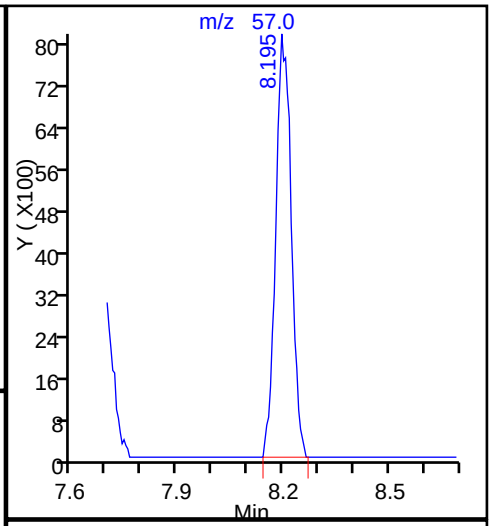
TestAmerica Burlington

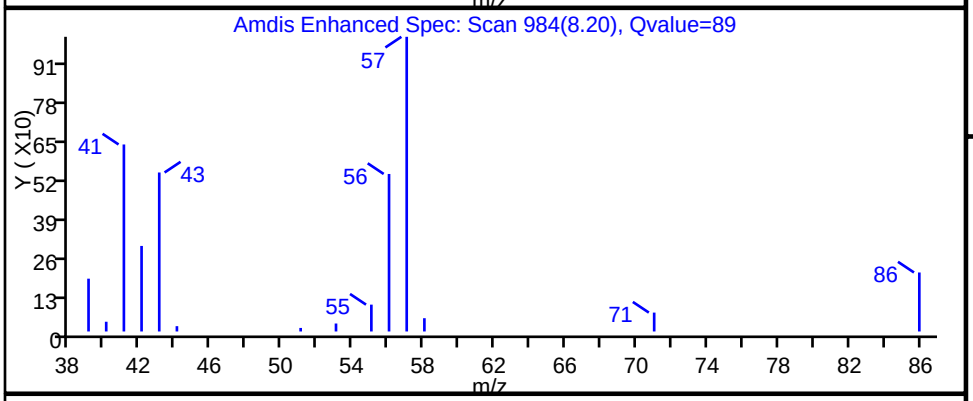
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

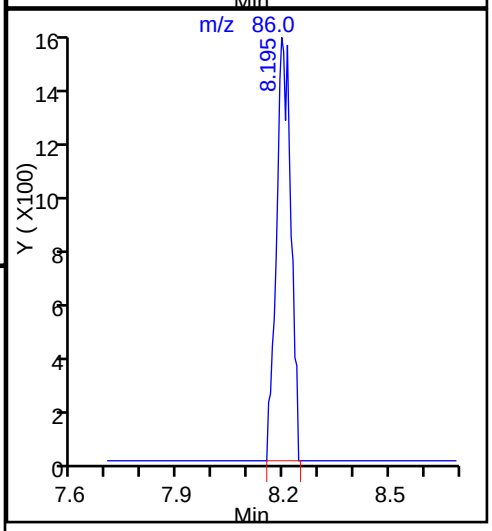
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

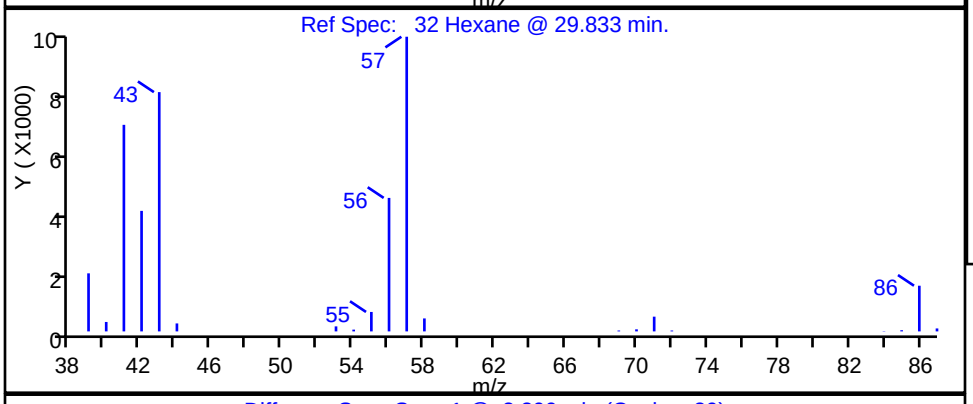
32 Hexane, CAS: 110-54-3

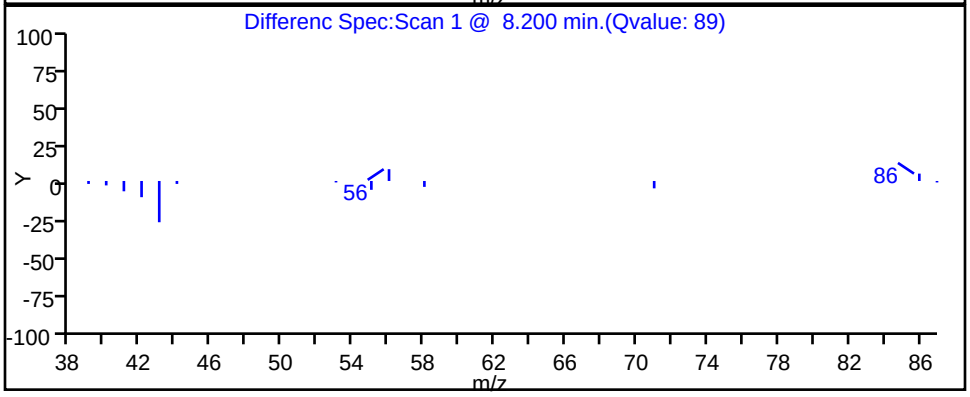












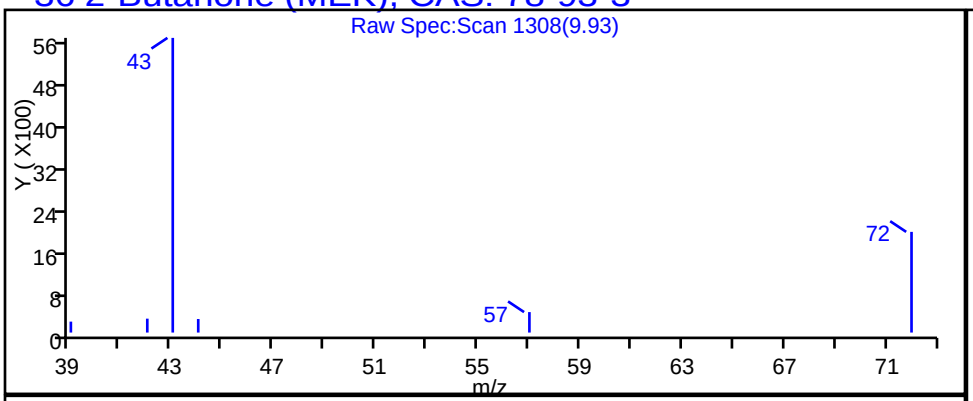
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

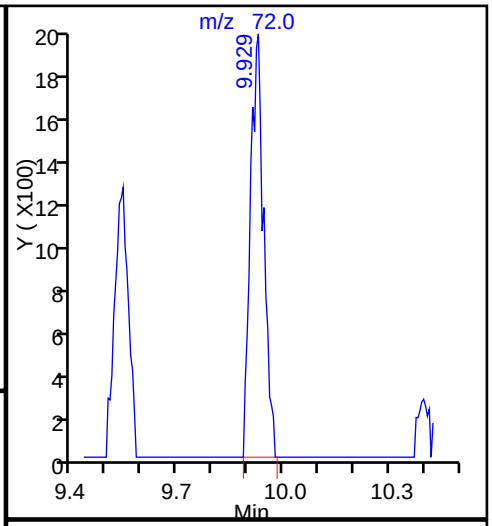
TestAmerica Burlington

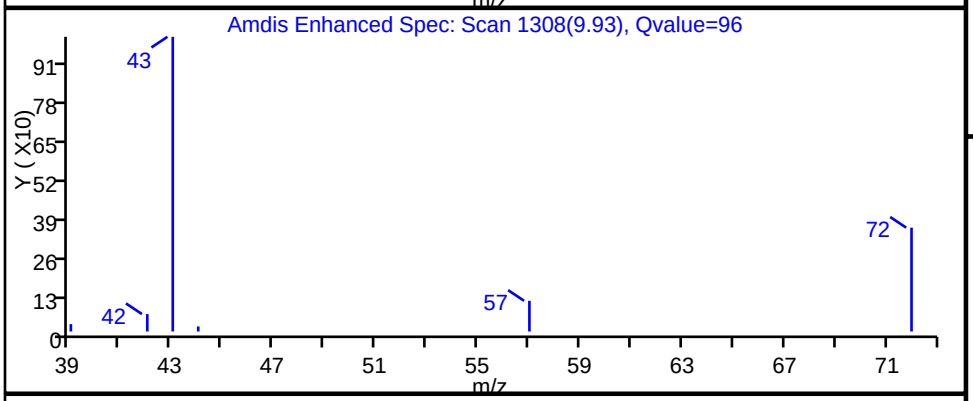
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

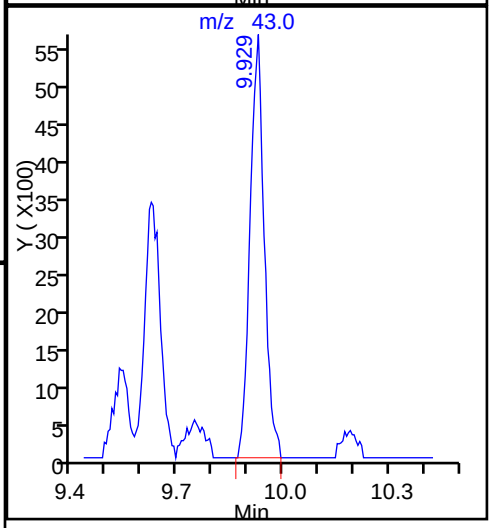
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

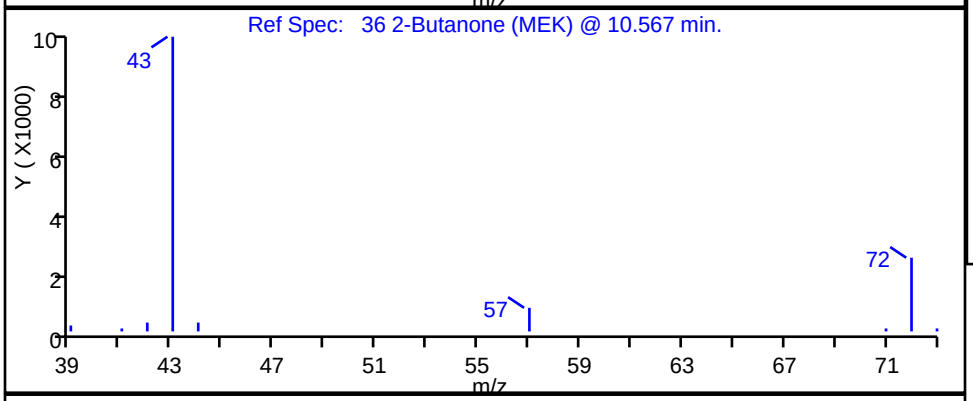
36 2-Butanone (MEK), CAS: 78-93-3

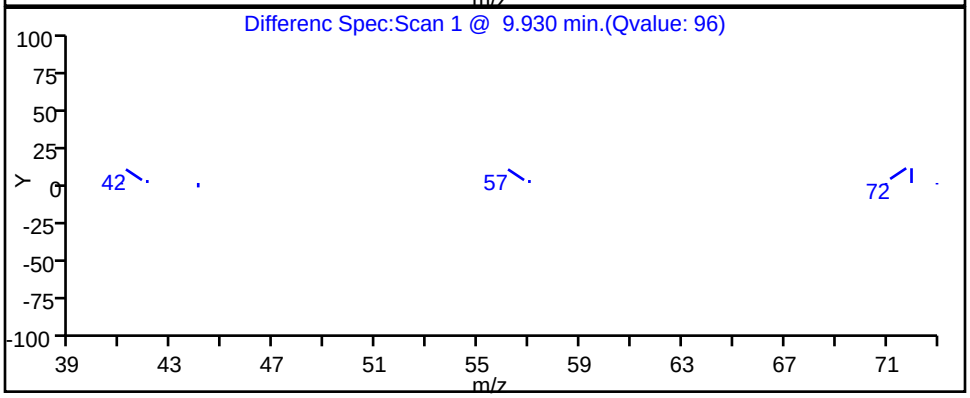












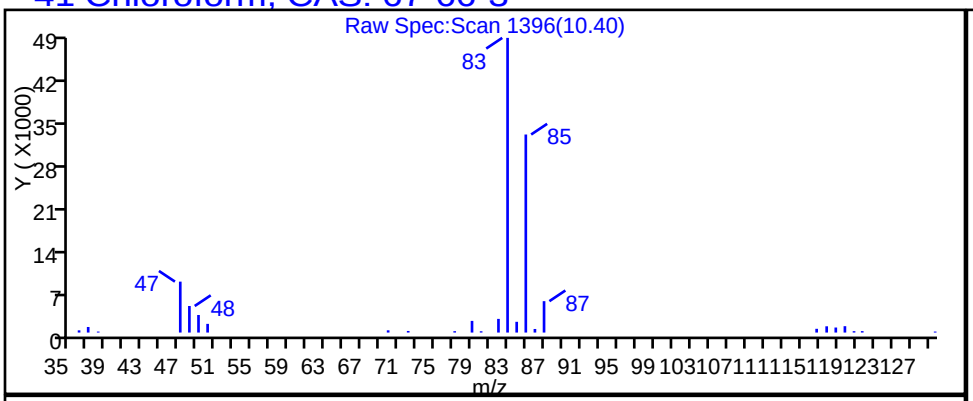
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

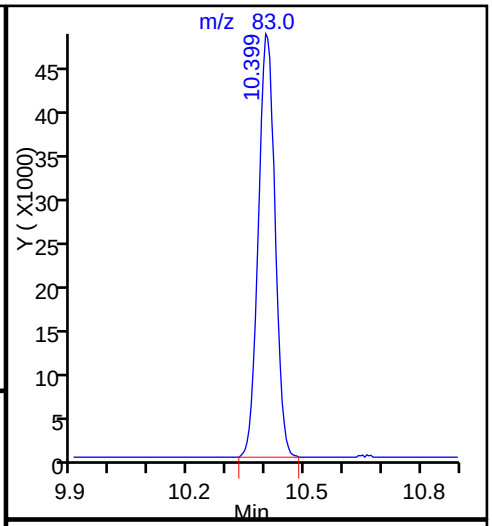
TestAmerica Burlington

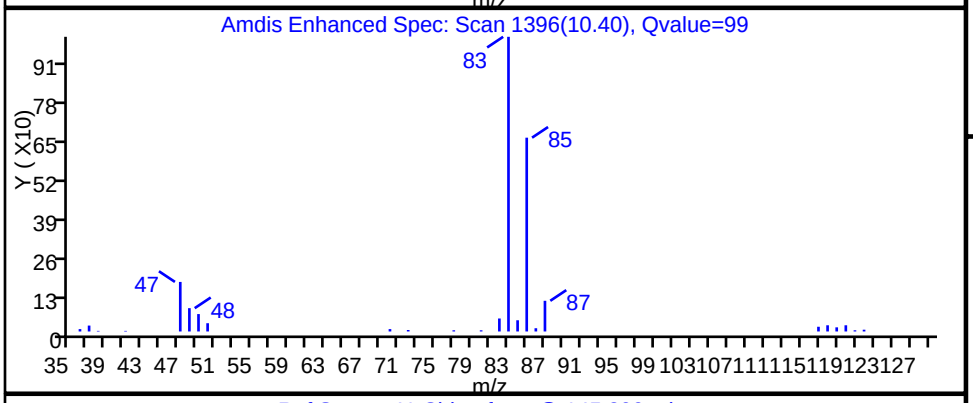
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

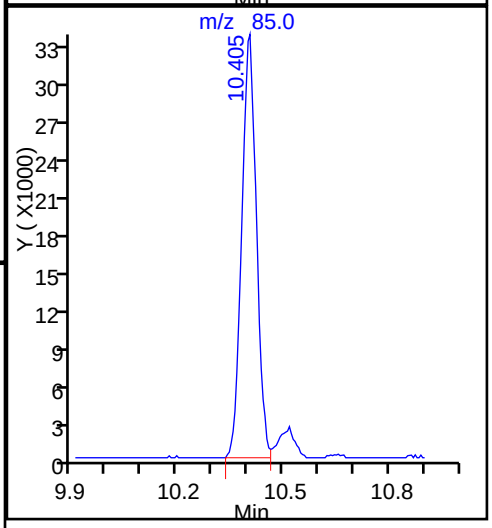
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

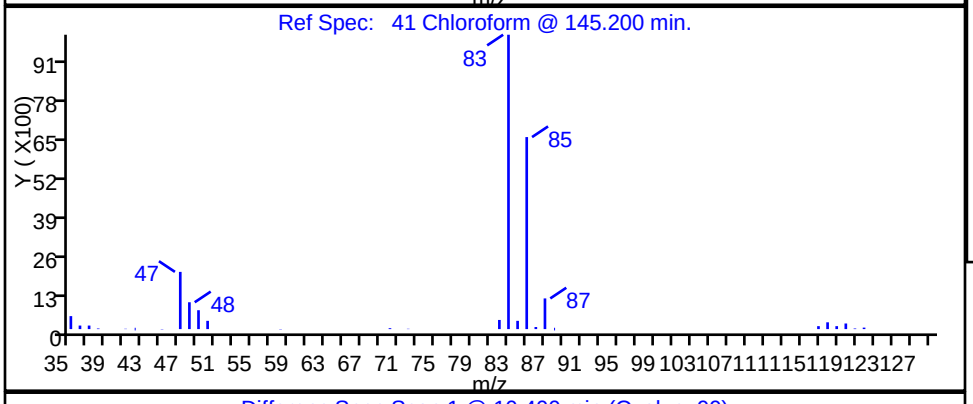
41 Chloroform, CAS: 67-66-3

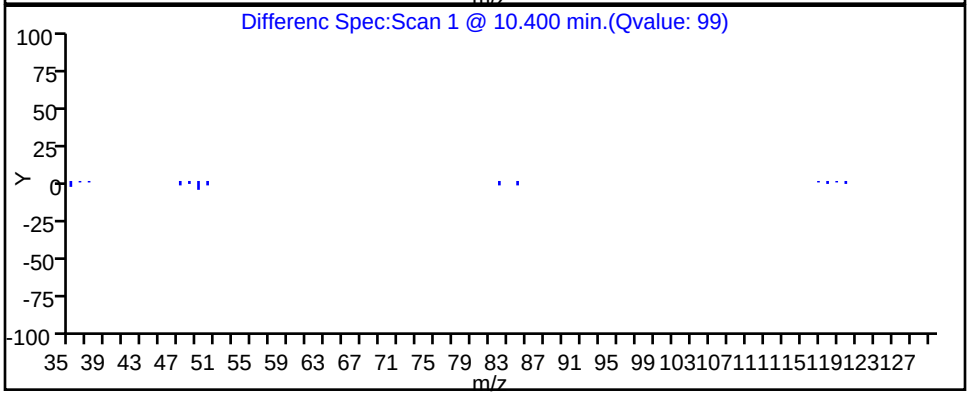












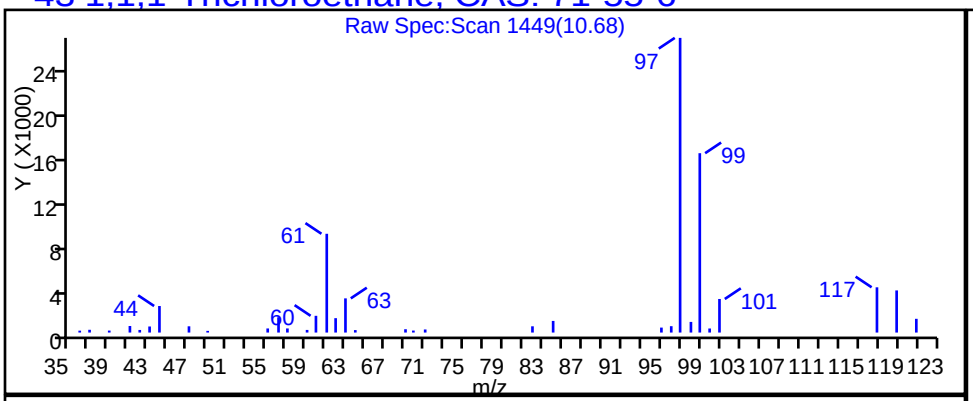
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

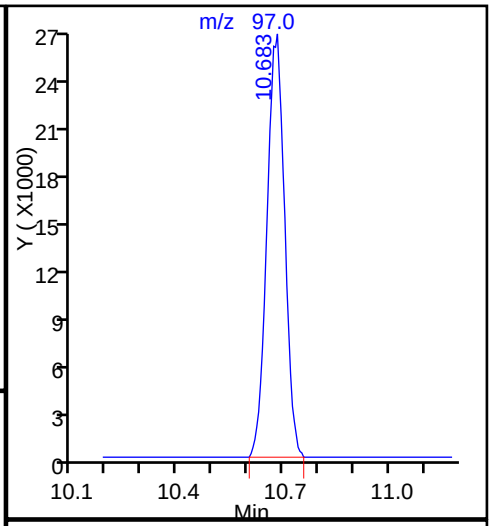
TestAmerica Burlington

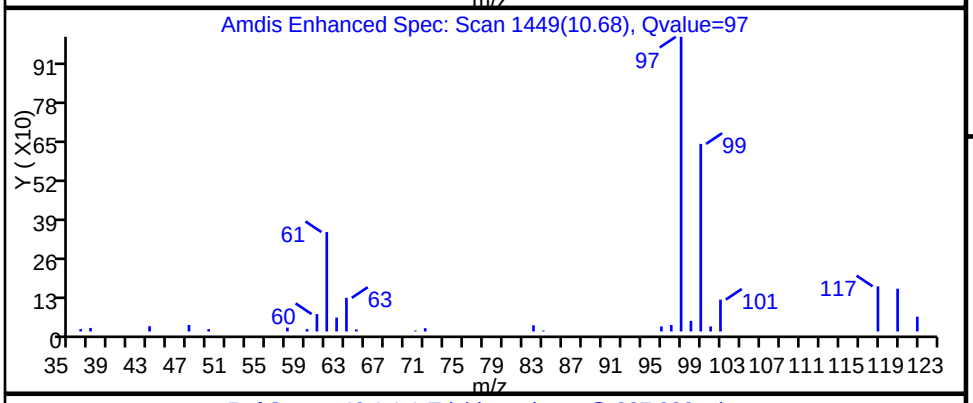
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

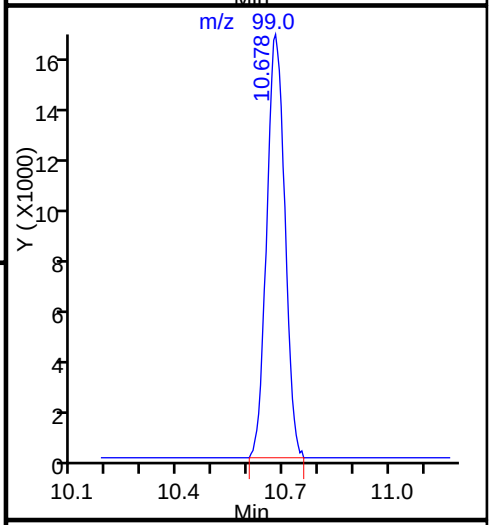
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

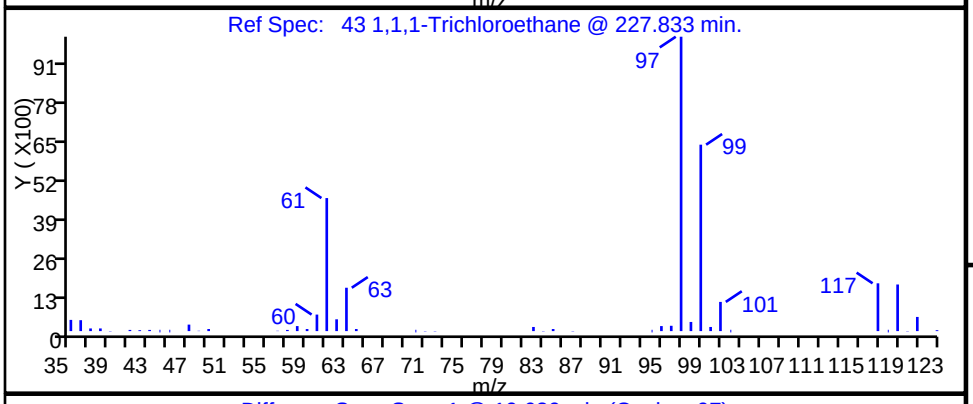
43 1,1,1-Trichloroethane, CAS: 71-55-6

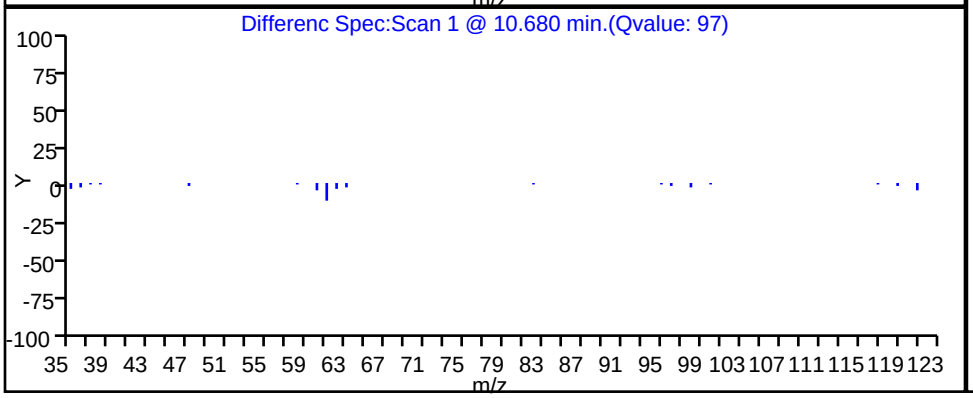


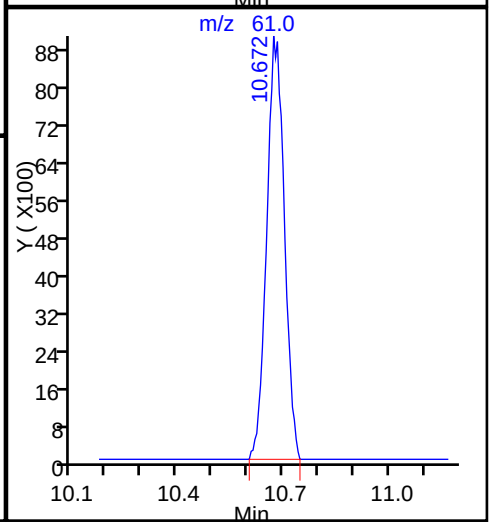












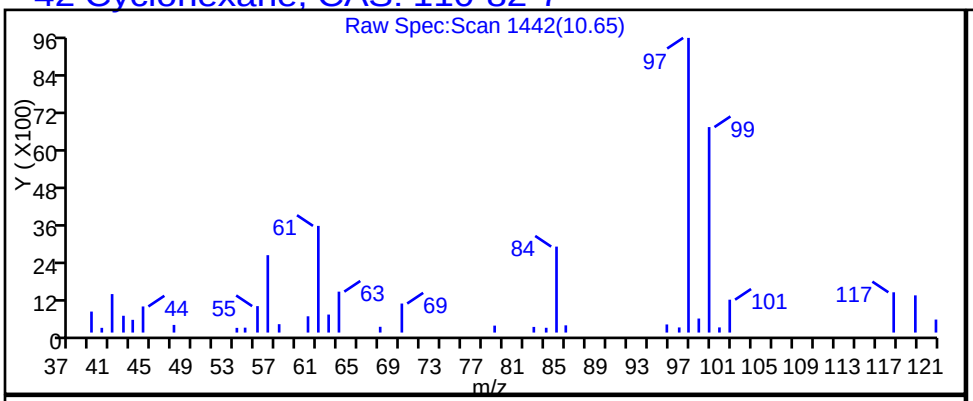
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

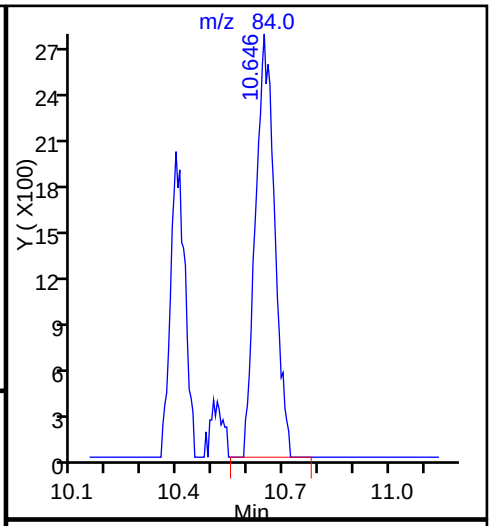
TestAmerica Burlington

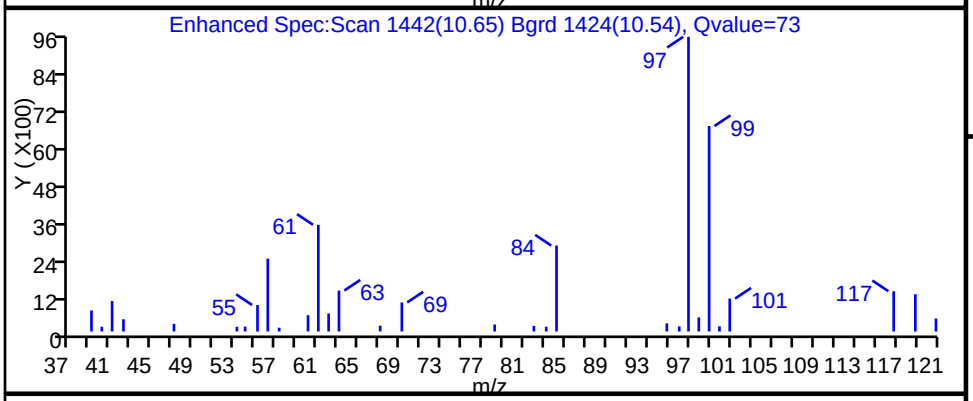
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

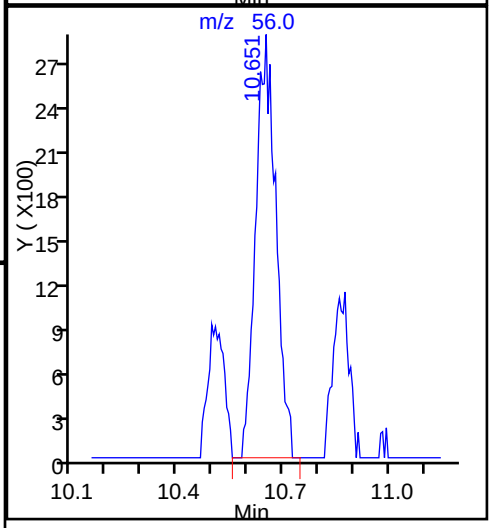
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

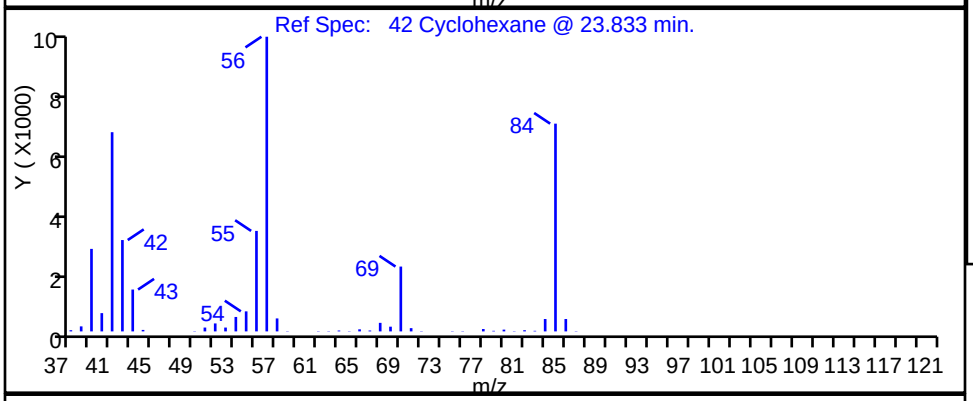
42 Cyclohexane, CAS: 110-82-7

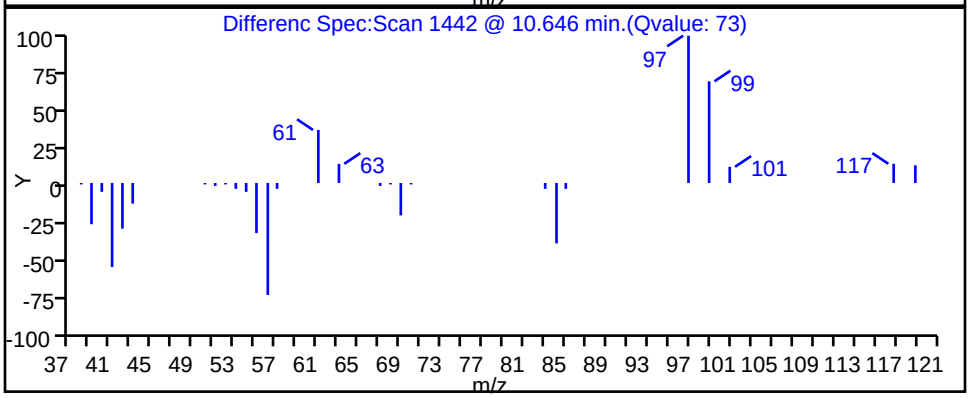












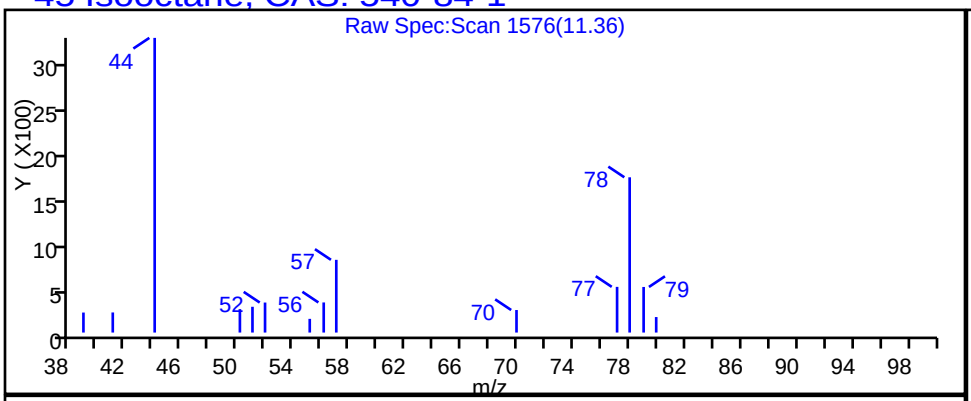
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

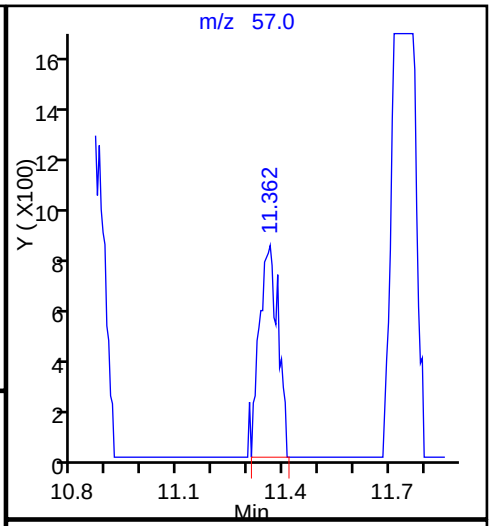
TestAmerica Burlington

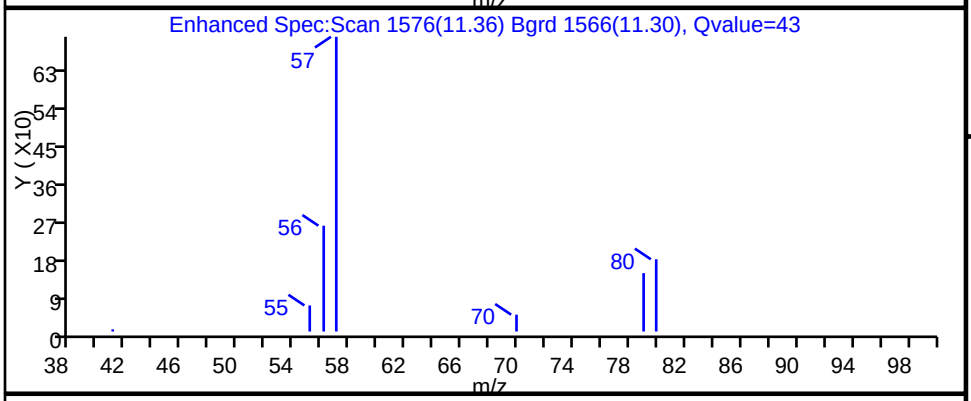
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

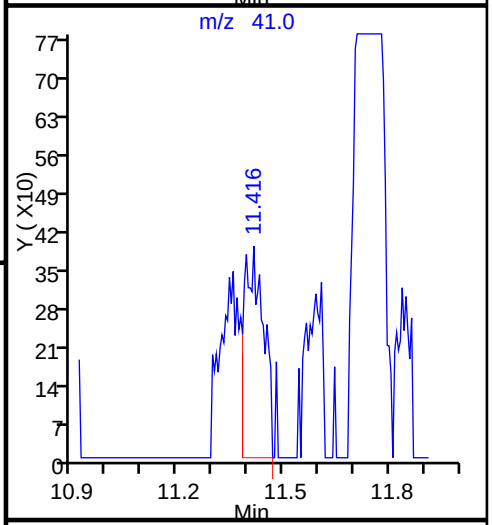
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

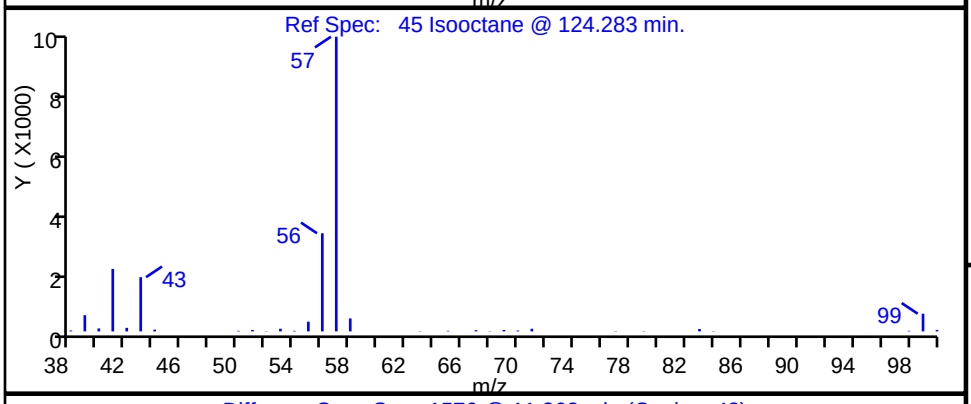
45 Isooctane, CAS: 540-84-1

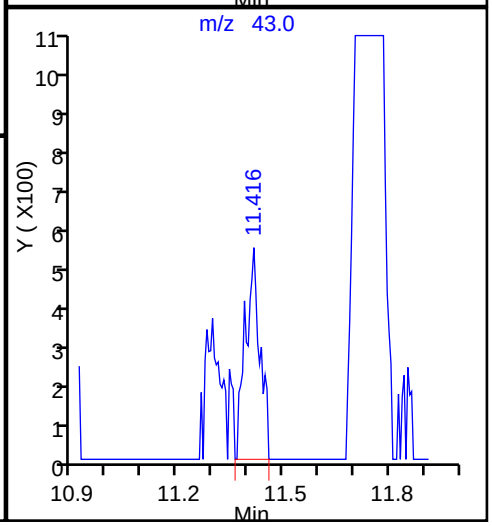


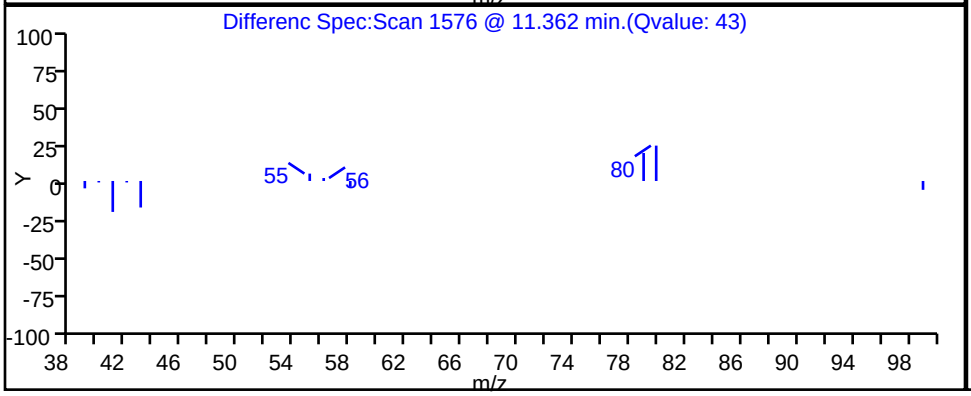












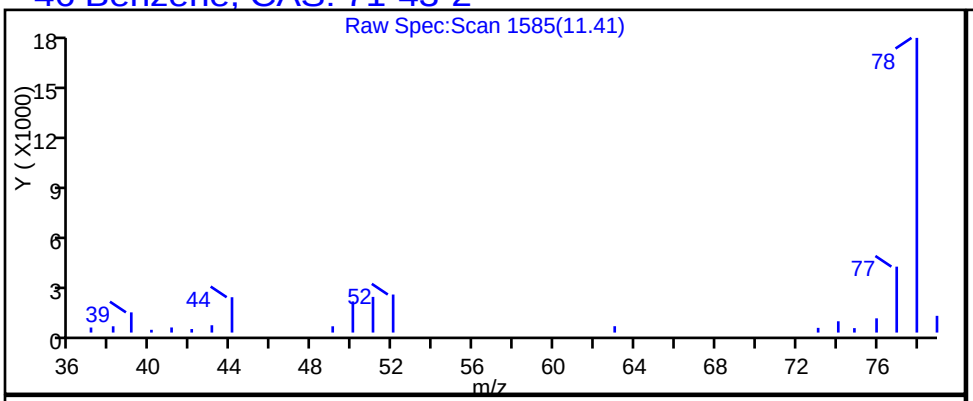
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

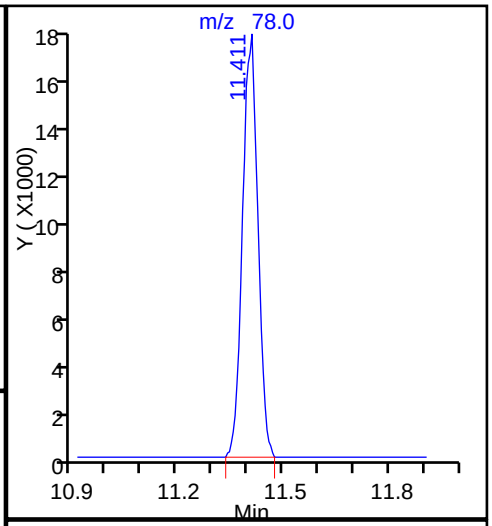
TestAmerica Burlington

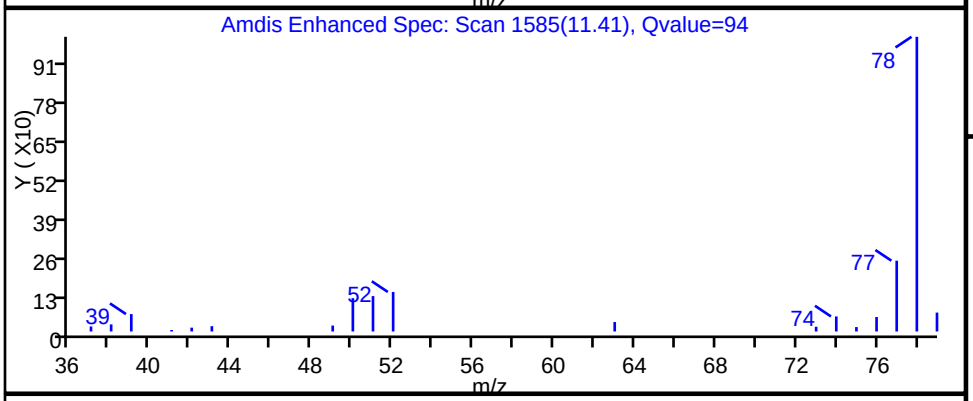
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

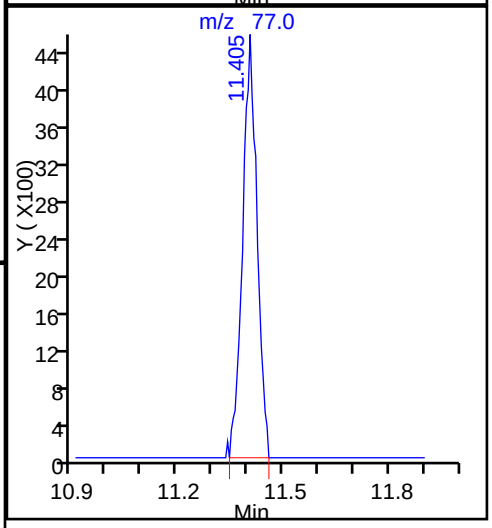
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

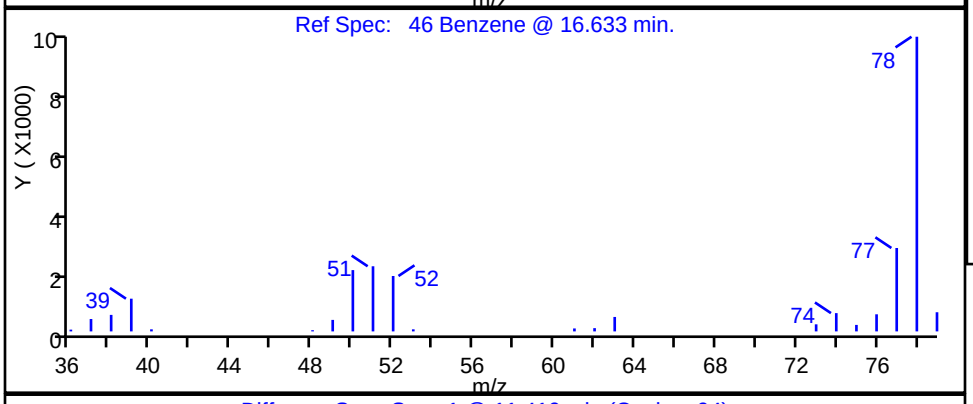
46 Benzene, CAS: 71-43-2

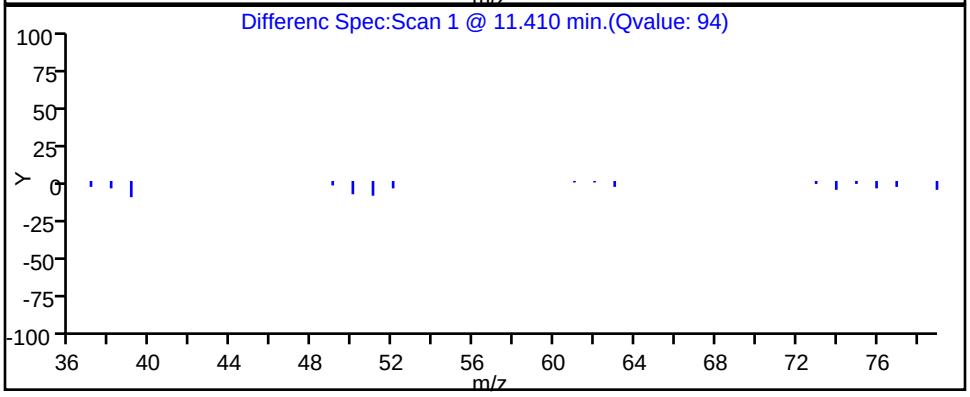












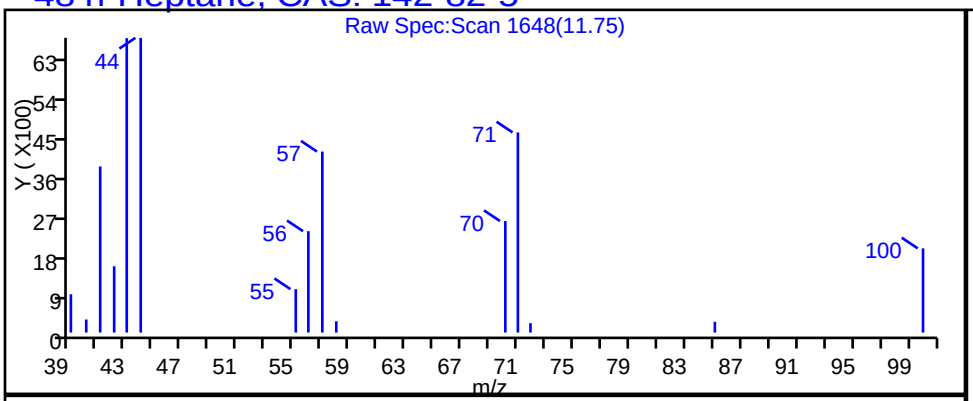
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

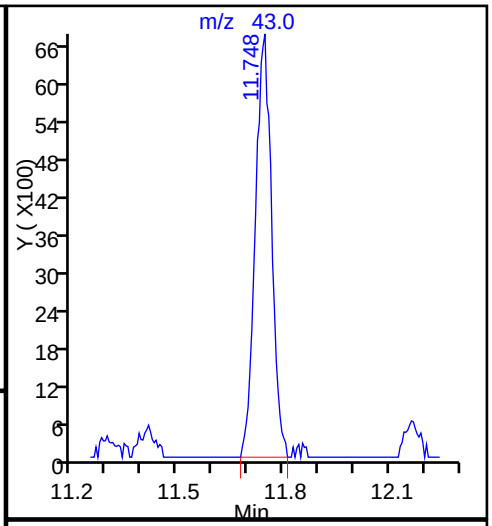
TestAmerica Burlington

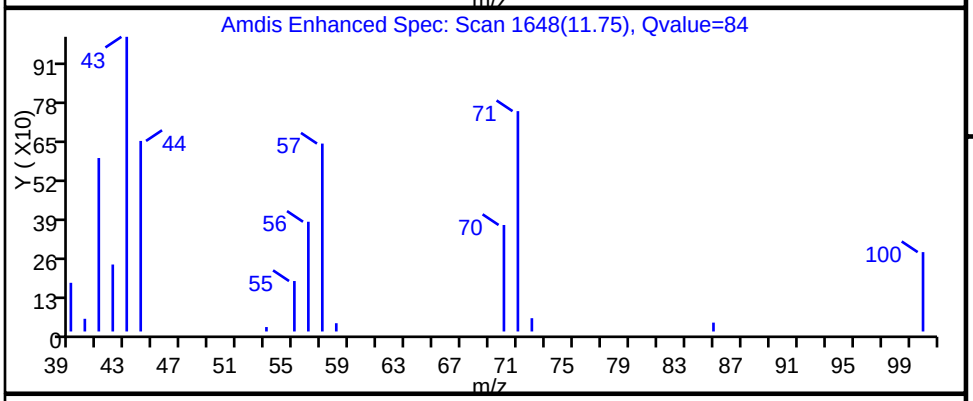
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

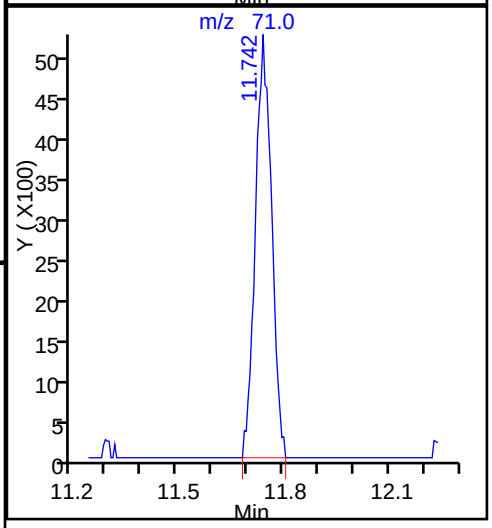
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

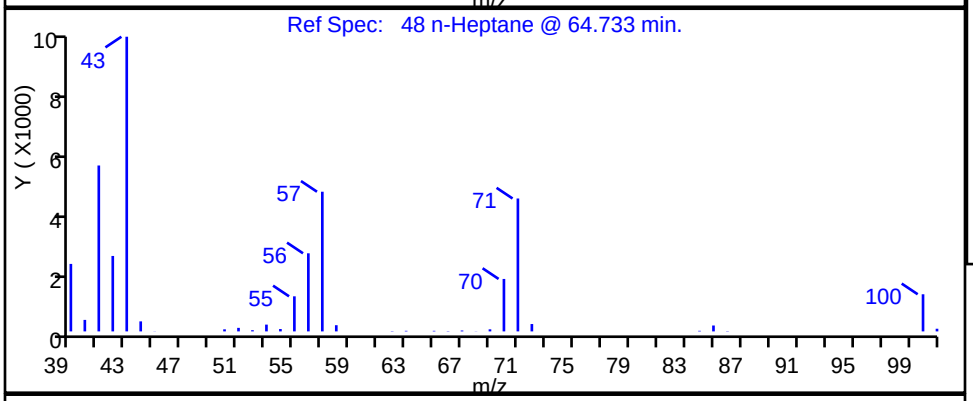
48 n-Heptane, CAS: 142-82-5

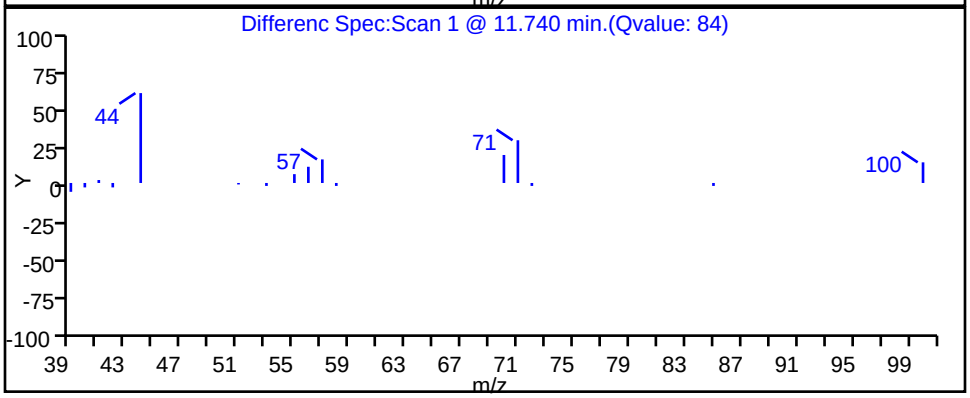












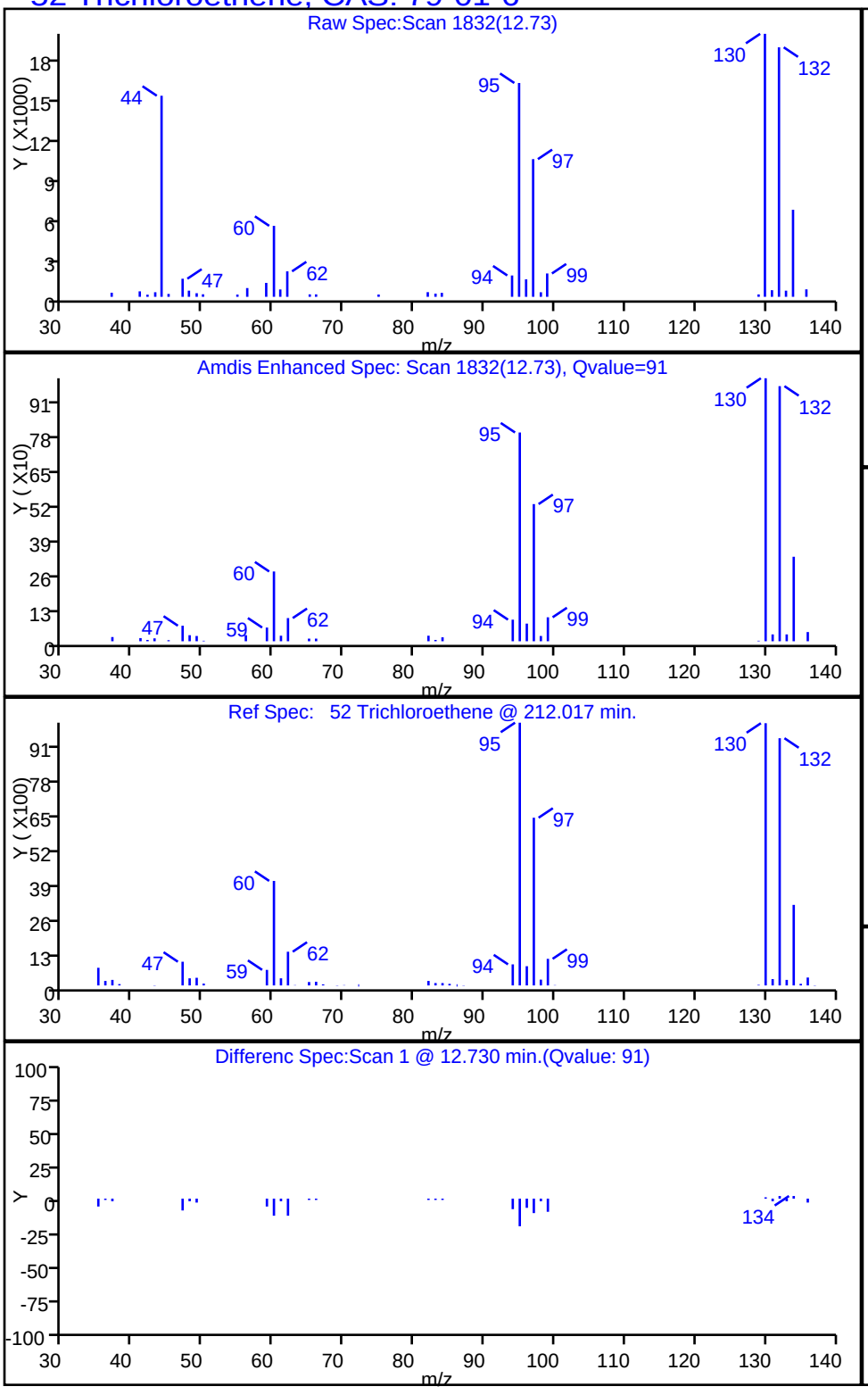
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

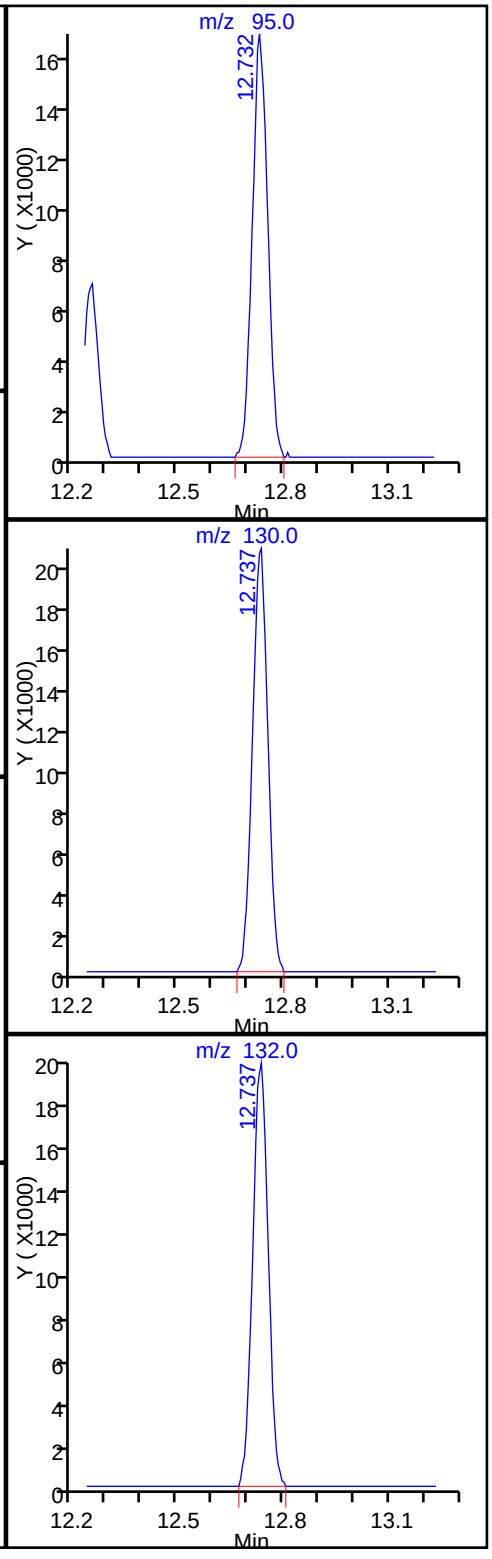
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6





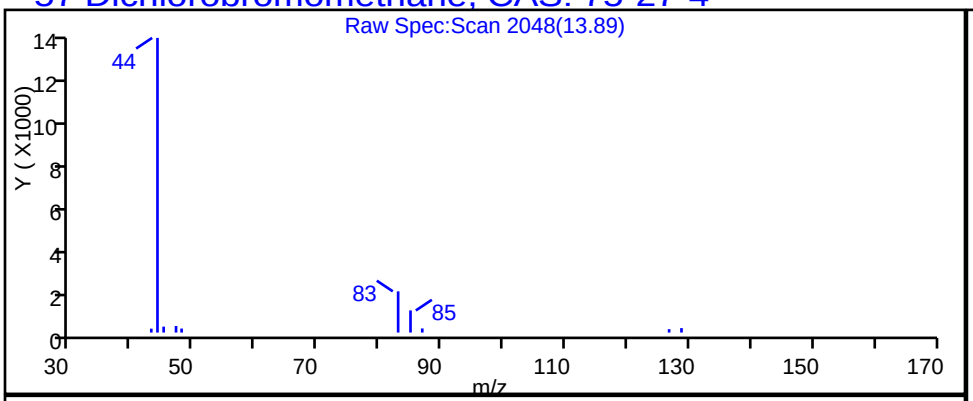
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

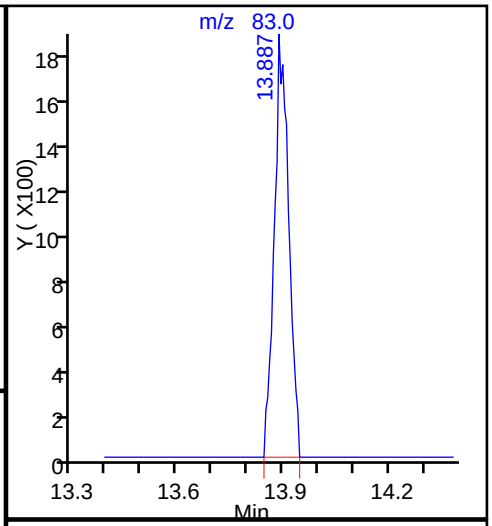
TestAmerica Burlington

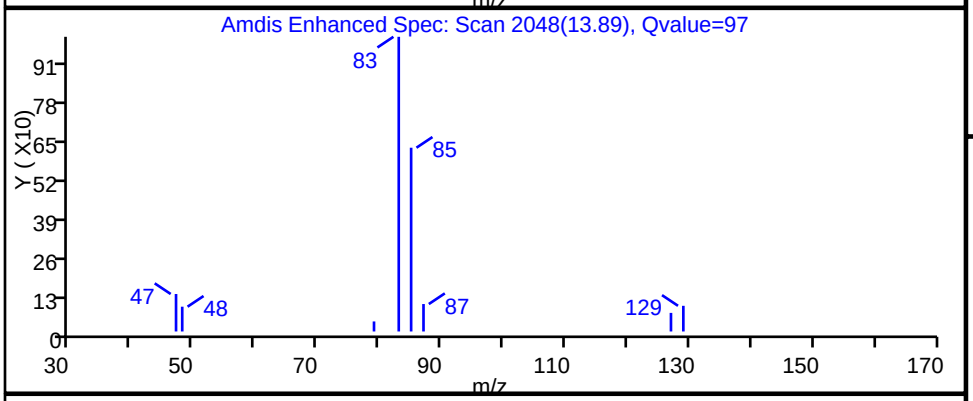
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

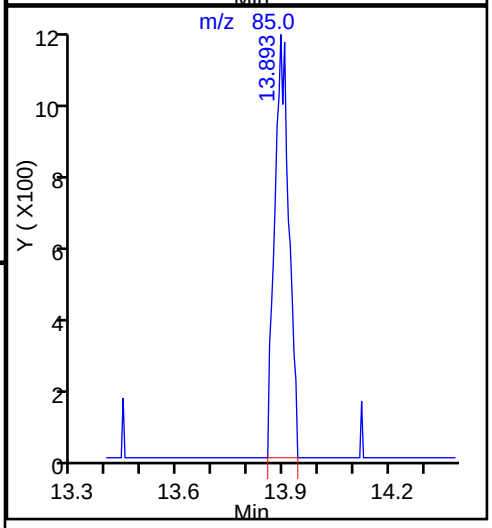
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

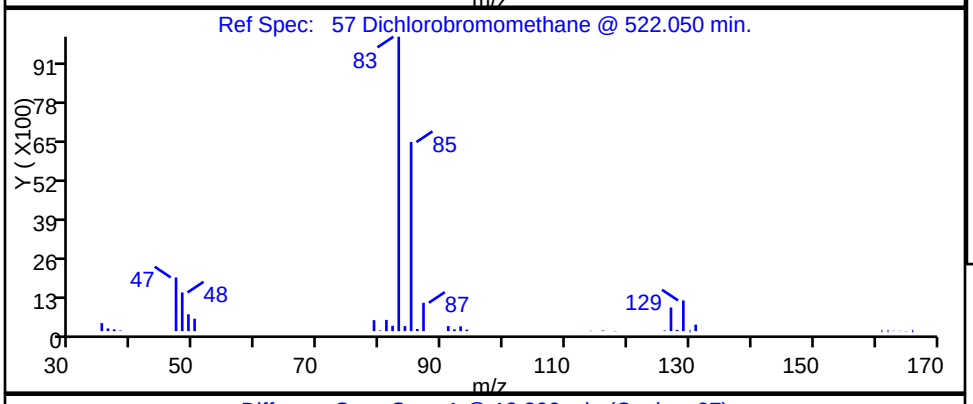
57 Dichlorobromomethane, CAS: 75-27-4

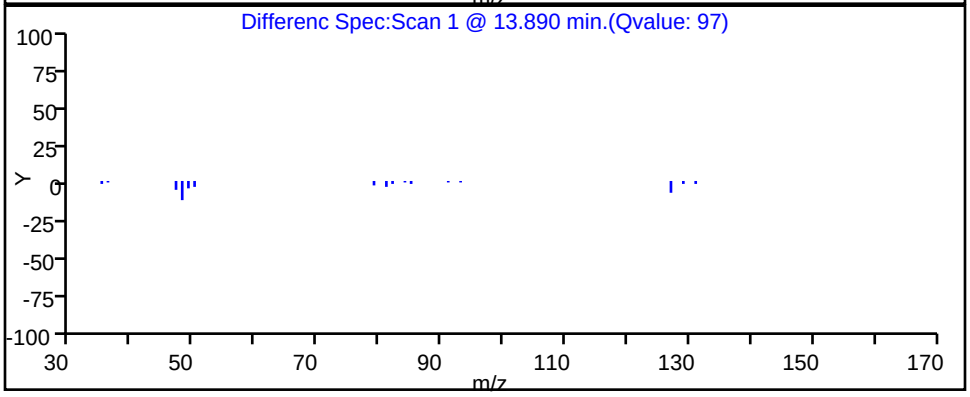












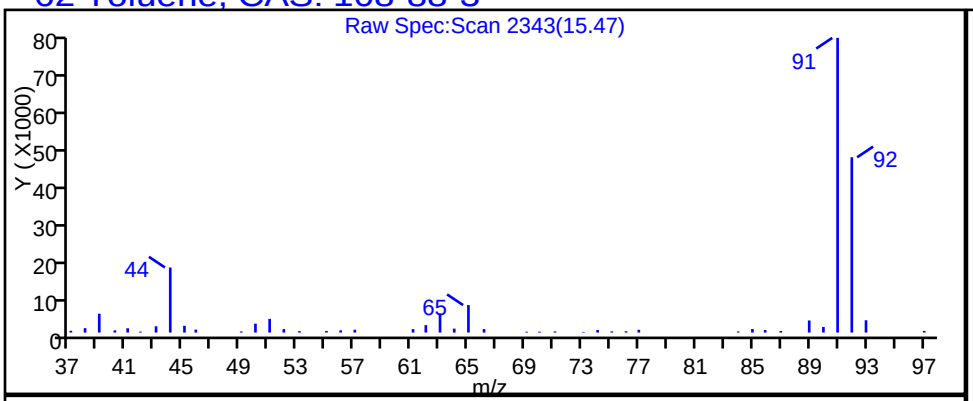
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

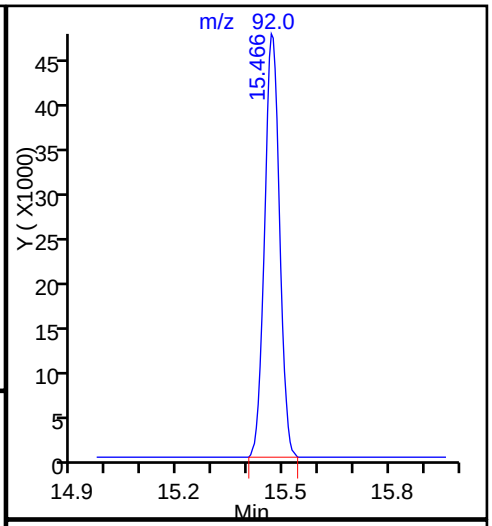
TestAmerica Burlington

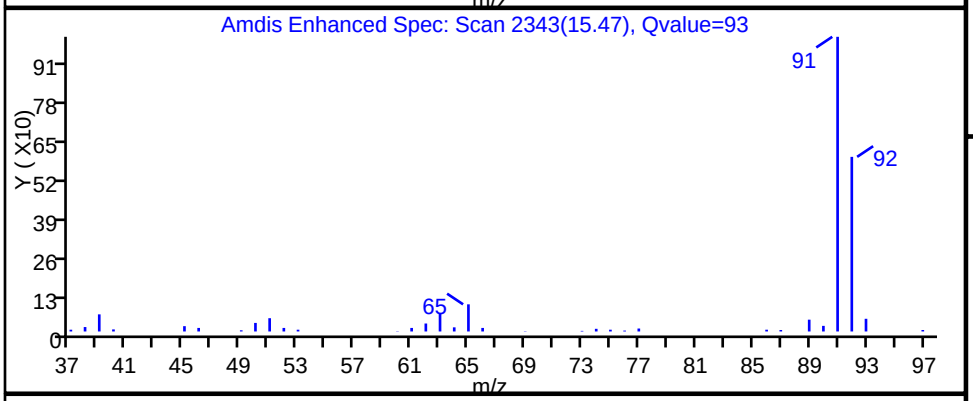
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

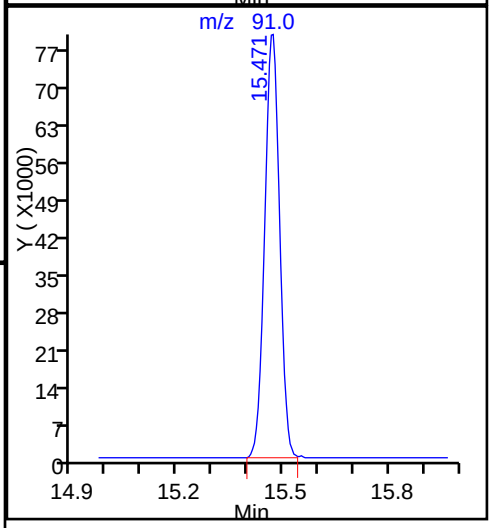
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

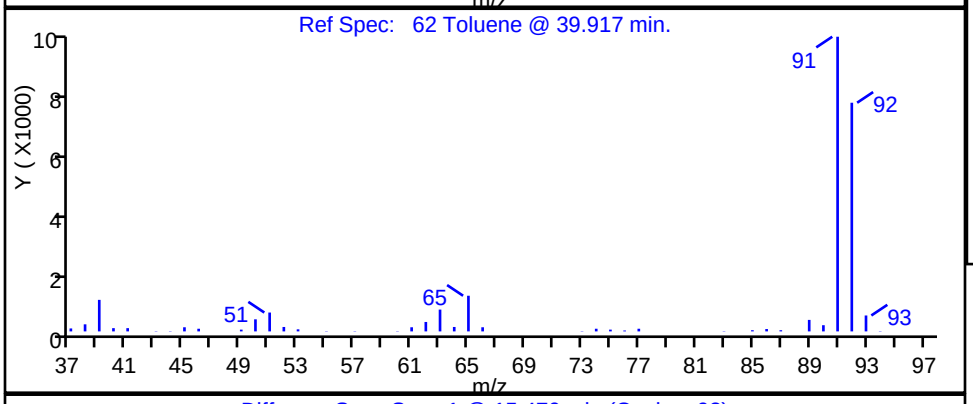
62 Toluene, CAS: 108-88-3

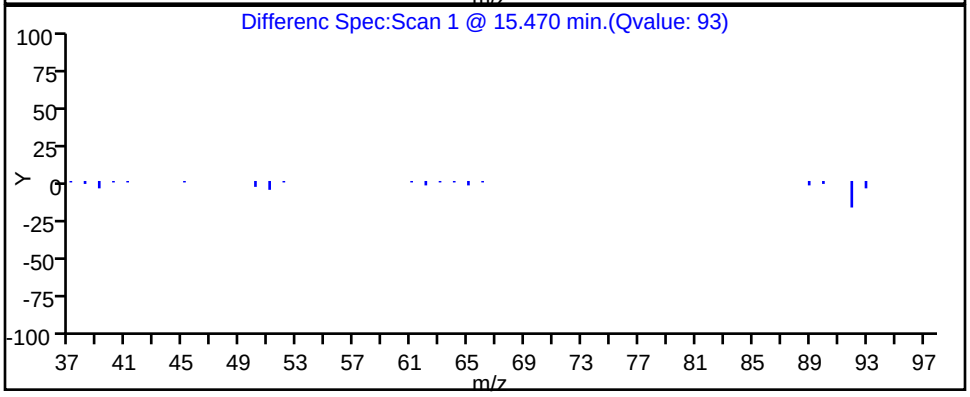












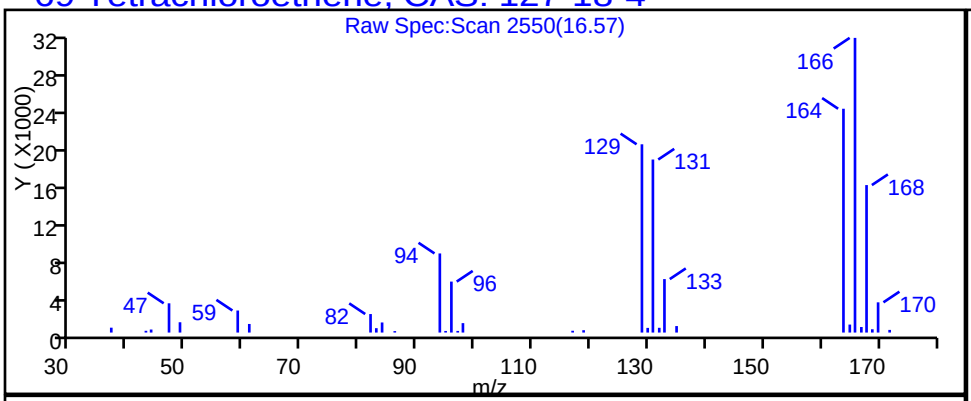
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

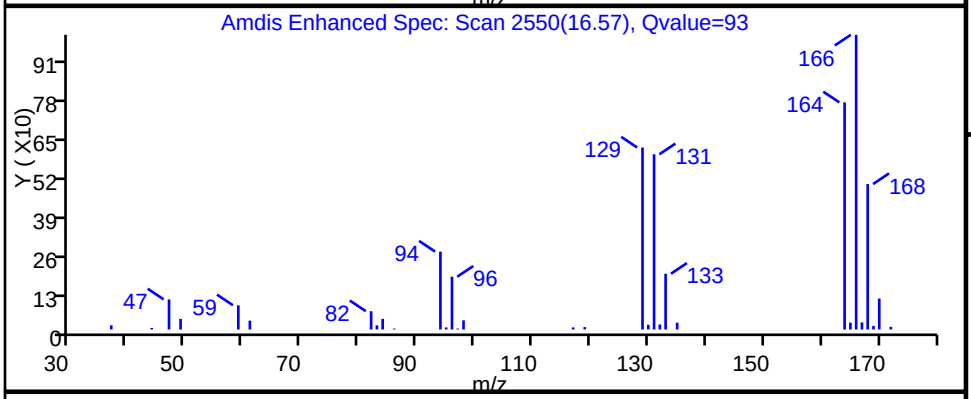
TestAmerica Burlington

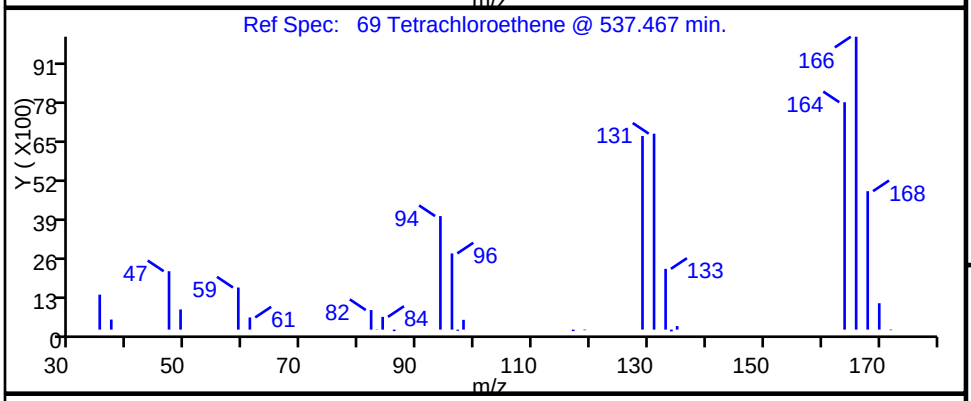
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

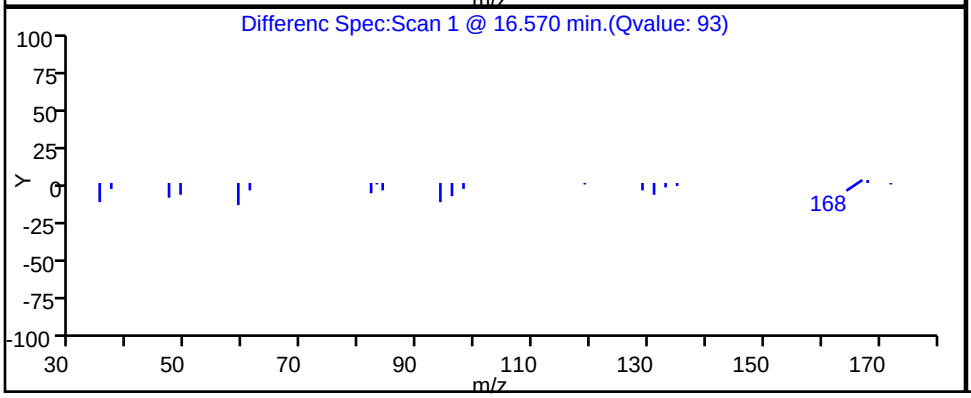
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

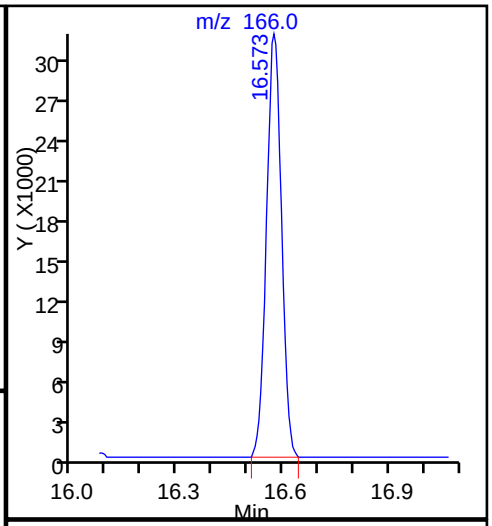
69 Tetrachloroethene, CAS: 127-18-4

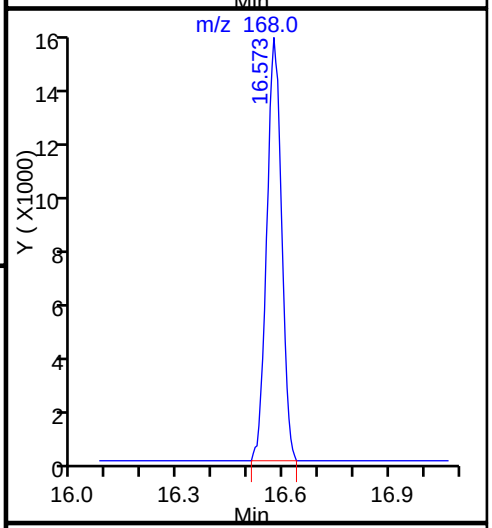


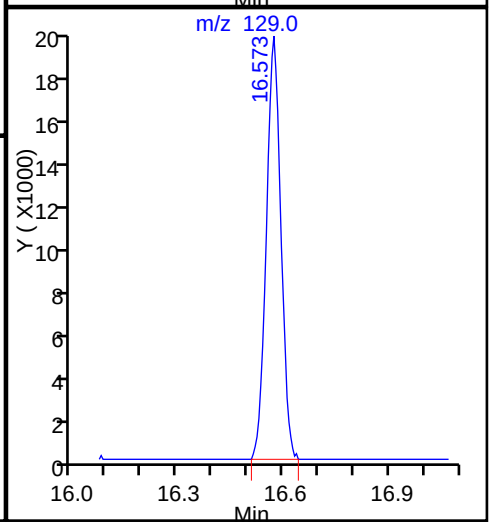












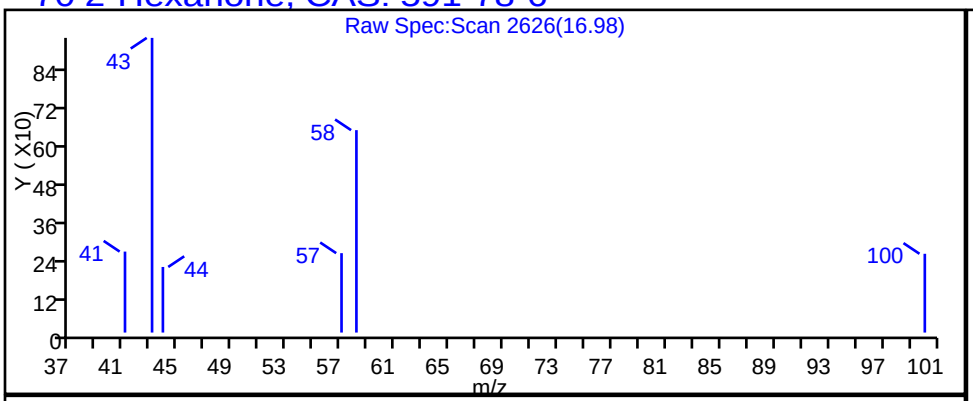
Report Date: 06-Oct-2015 10:19:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

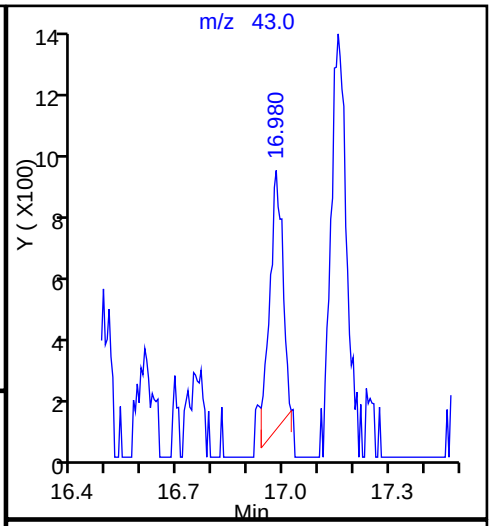
TestAmerica Burlington

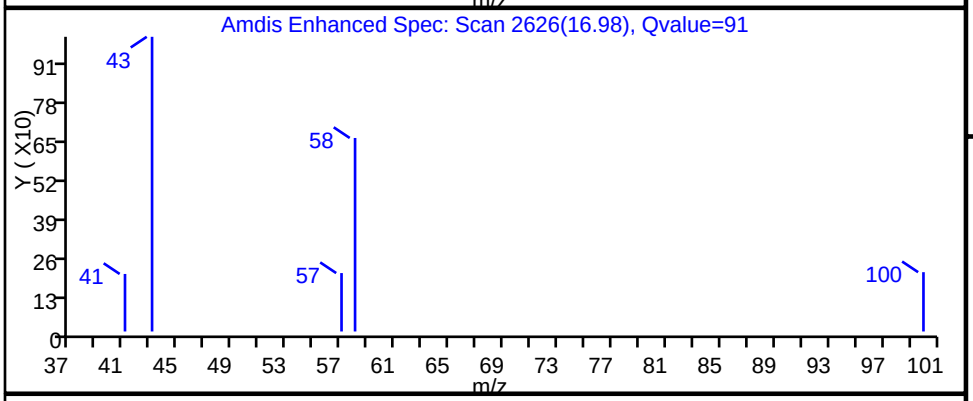
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

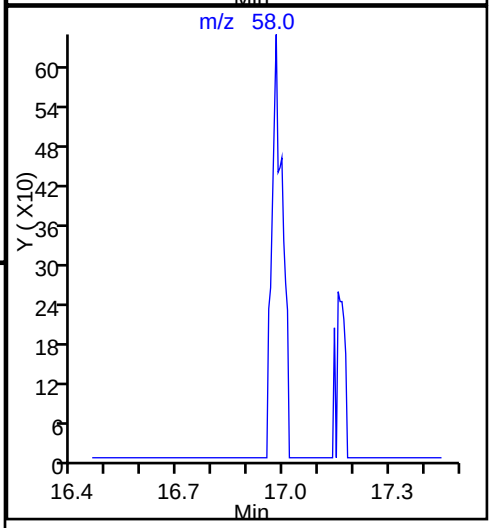
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

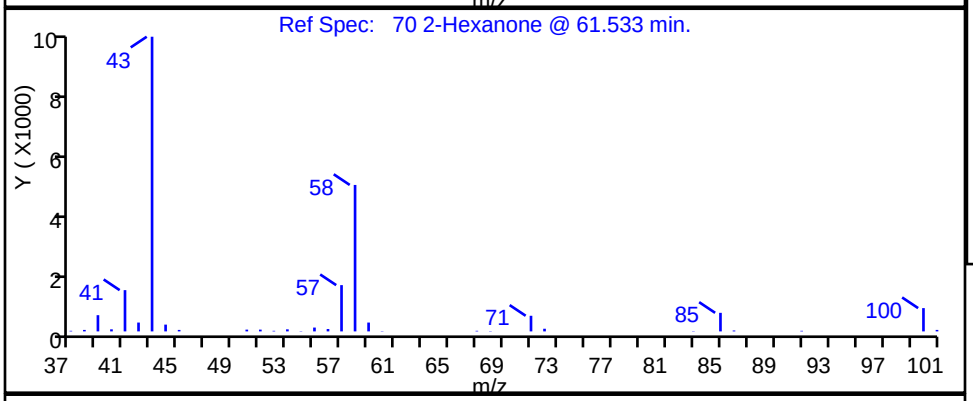
70 2-Hexanone, CAS: 591-78-6

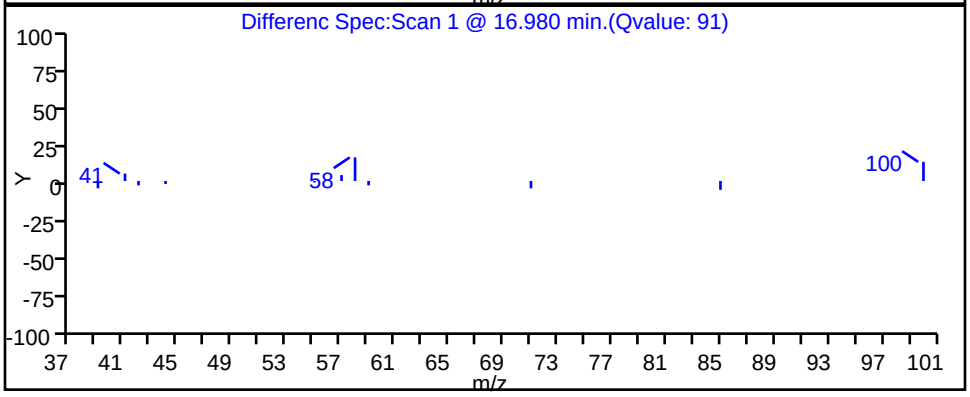












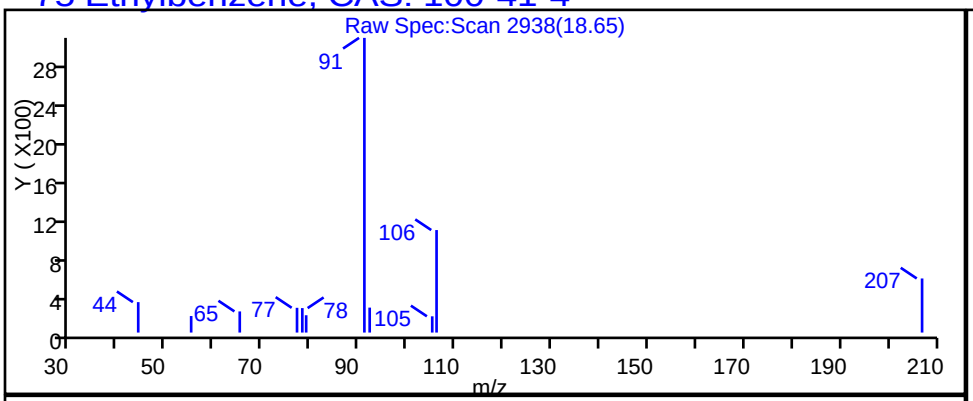
Report Date: 06-Oct-2015 10:19:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

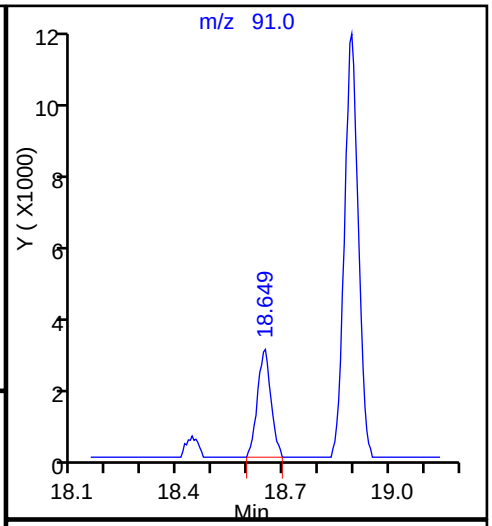
TestAmerica Burlington

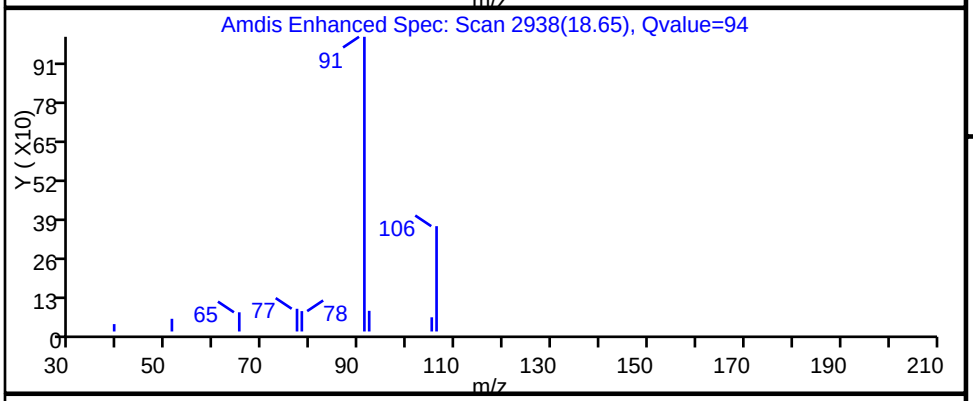
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

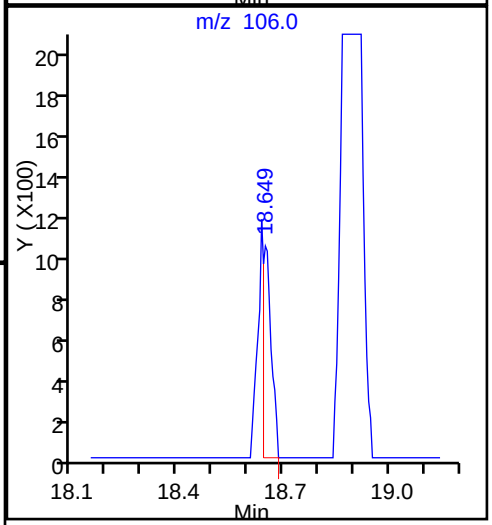
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

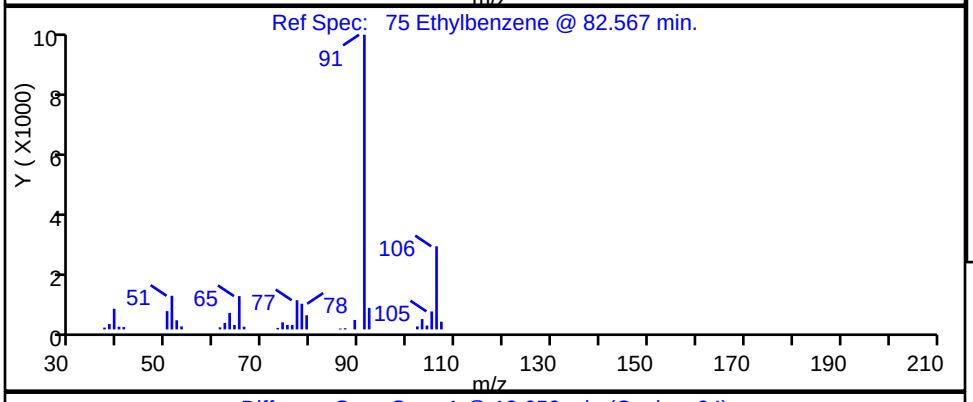
75 Ethylbenzene, CAS: 100-41-4

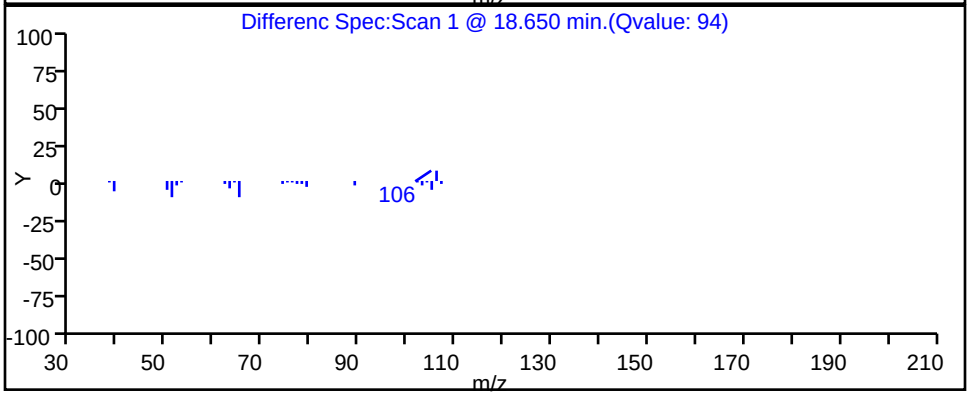










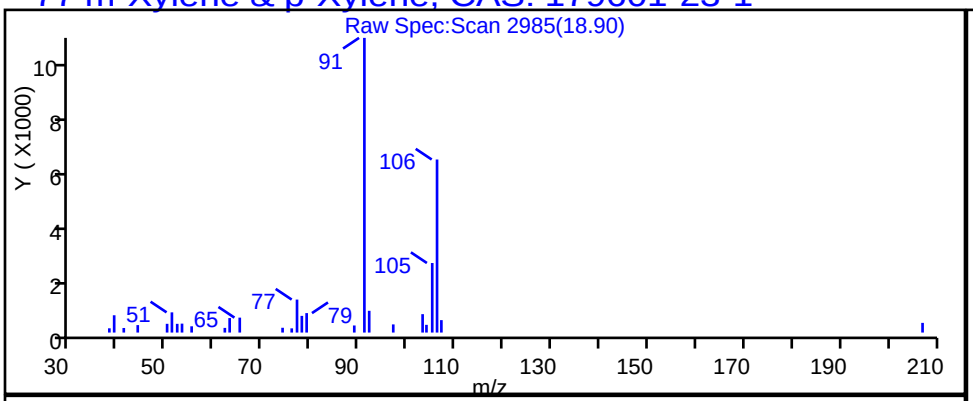


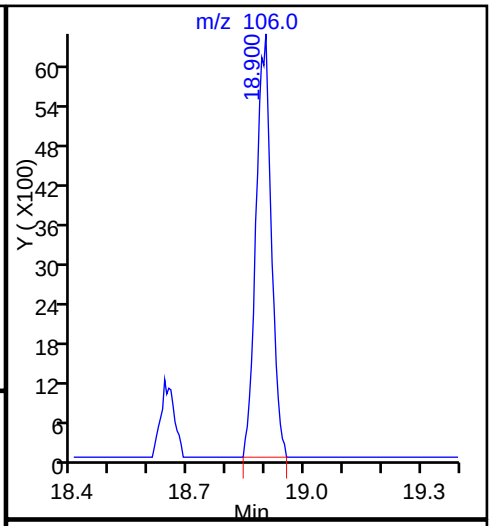
Report Date: 06-Oct-2015 10:19:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

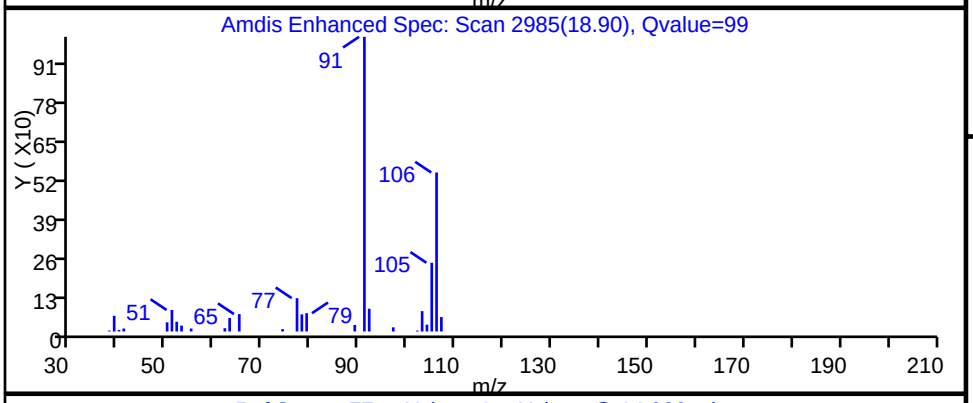
TestAmerica Burlington

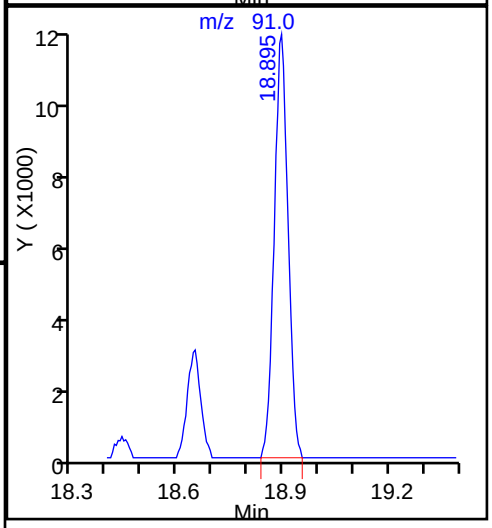
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D				
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

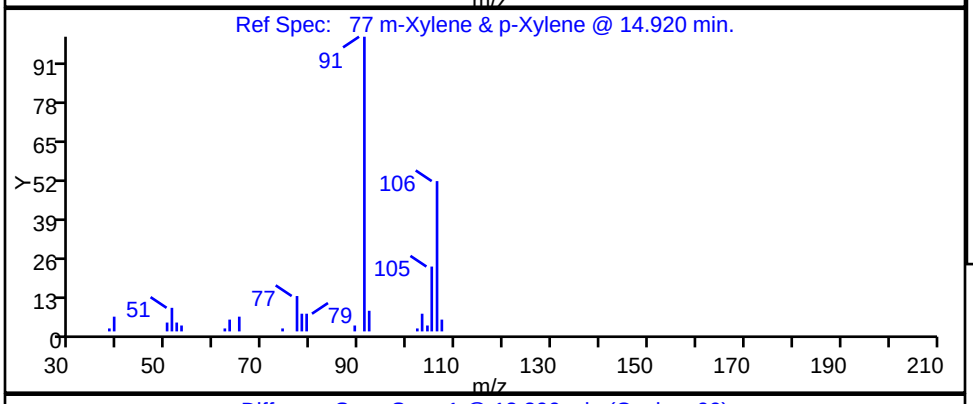
77 m-Xylene & p-Xylene, CAS: 179601-23-1

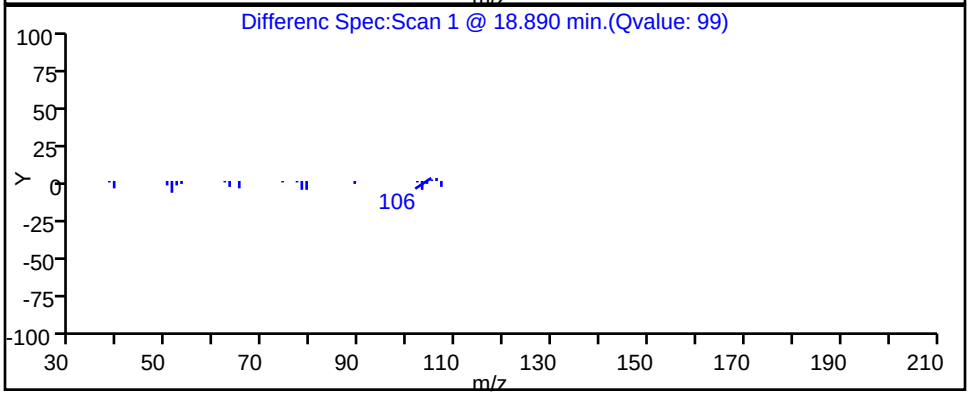












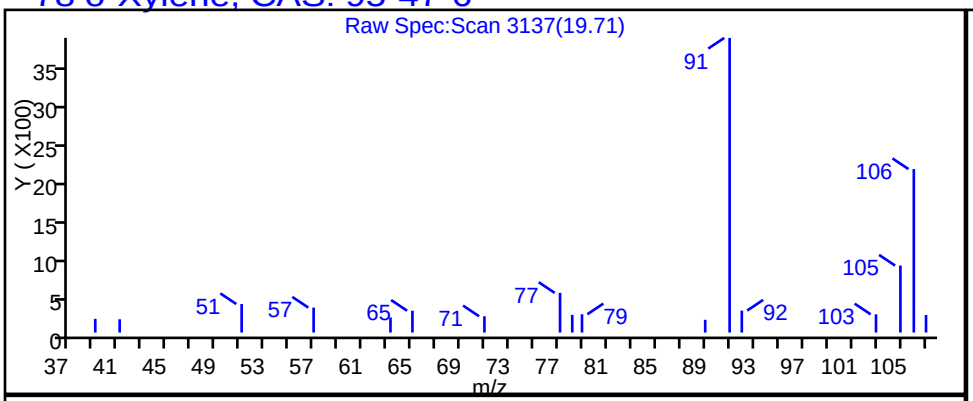
Report Date: 06-Oct-2015 10:19:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

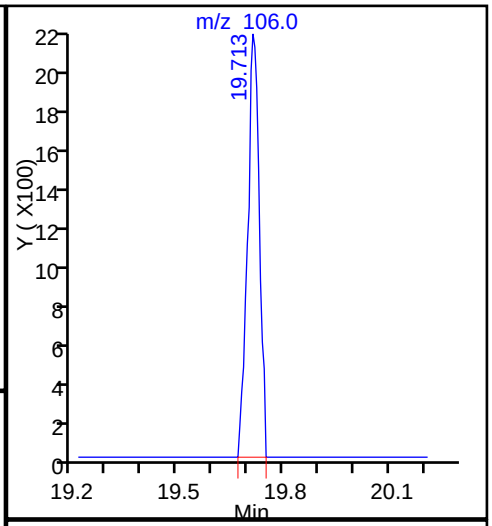
TestAmerica Burlington

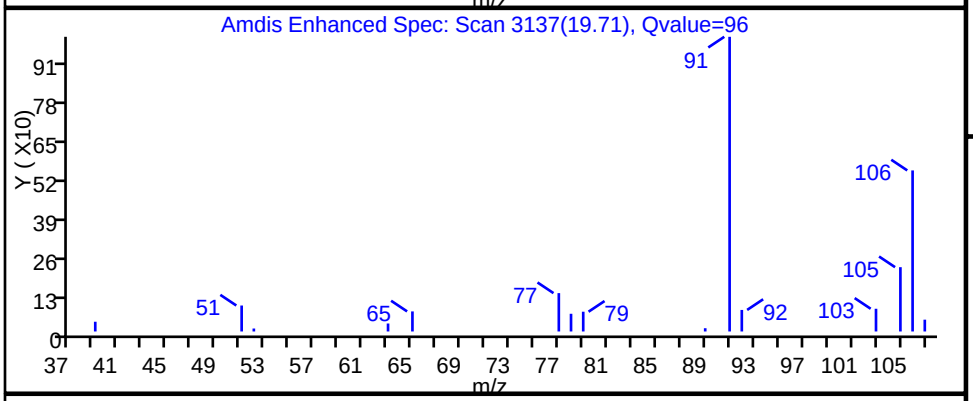
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

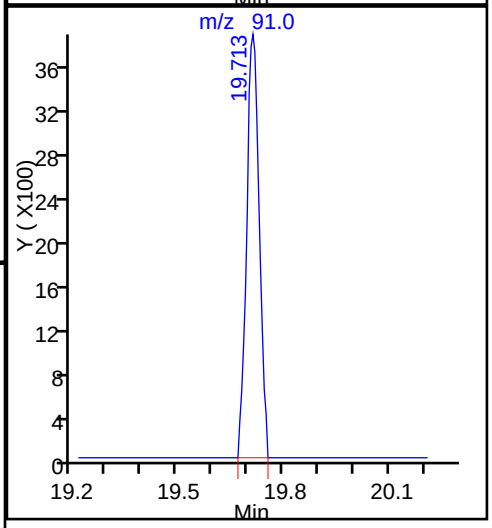
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

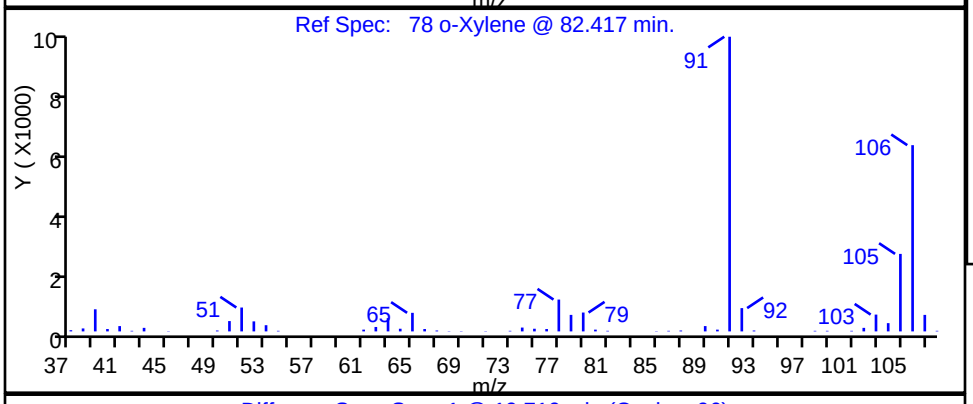
78 o-Xylene, CAS: 95-47-6

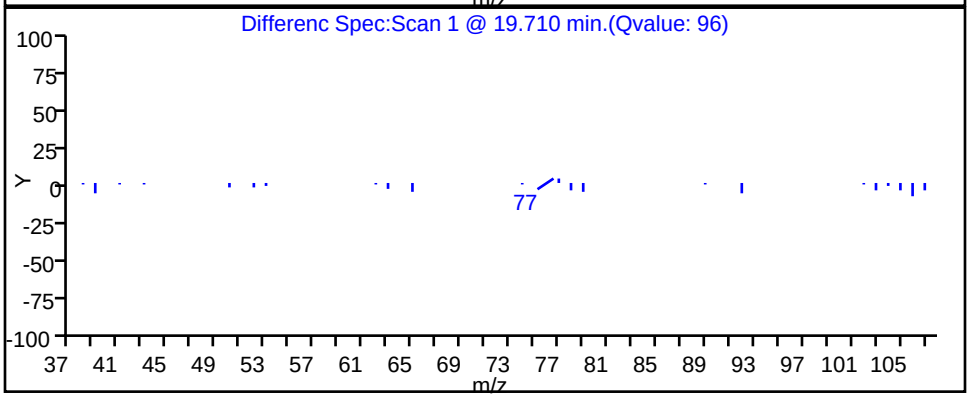












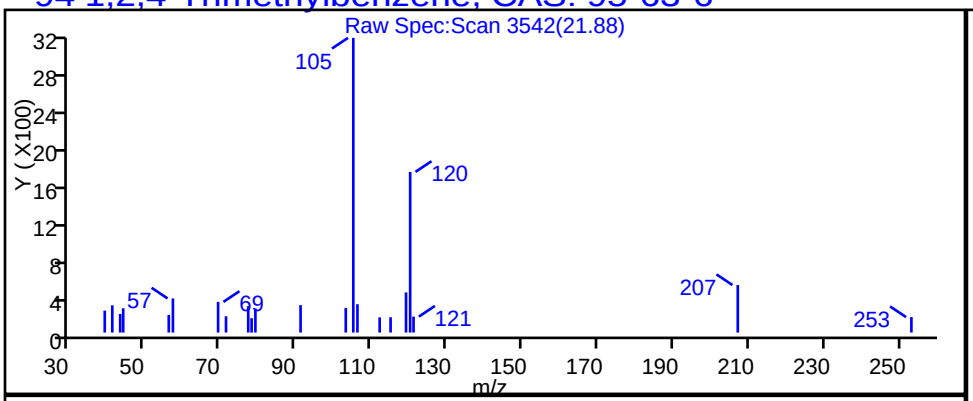
Report Date: 06-Oct-2015 10:19:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

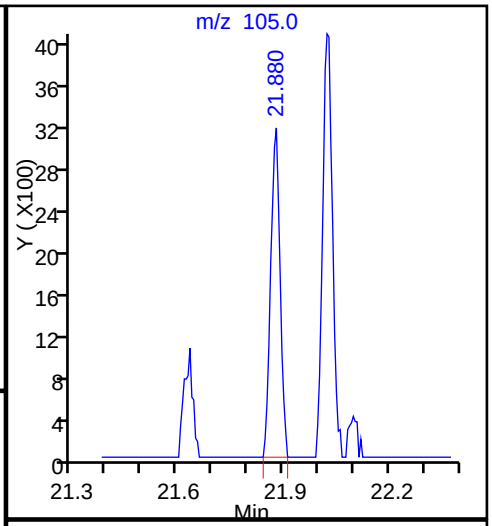
TestAmerica Burlington

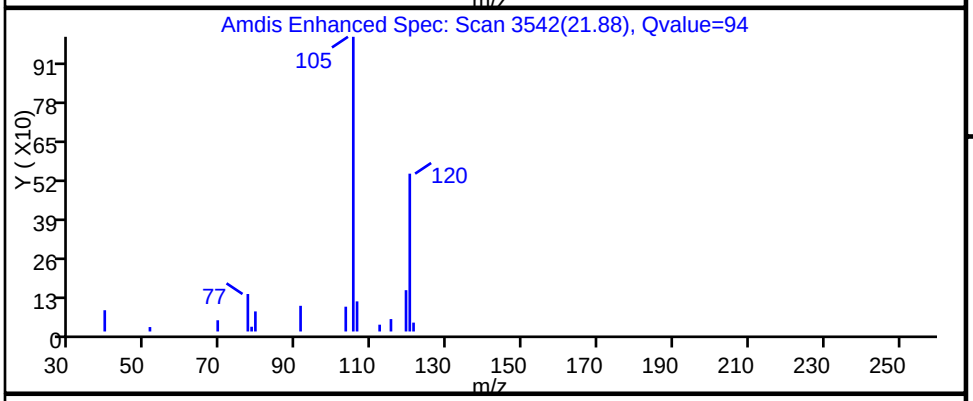
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

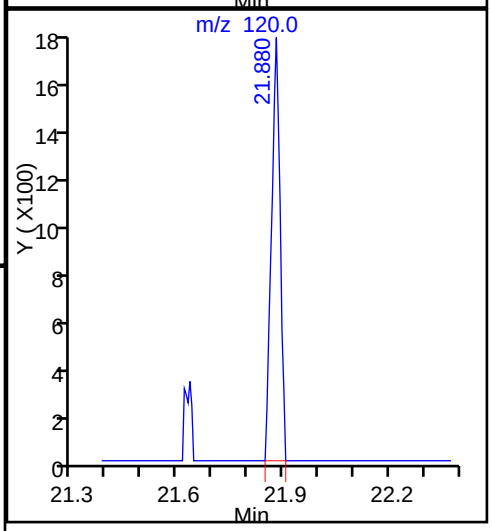
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

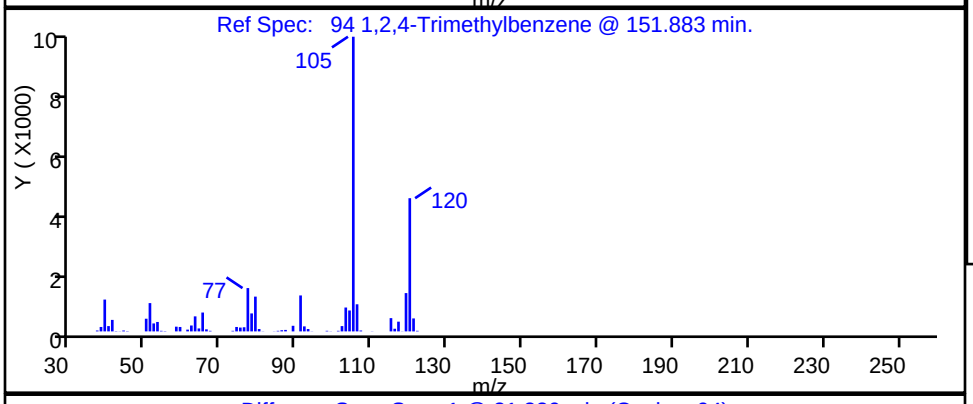
94 1,2,4-Trimethylbenzene, CAS: 95-63-6

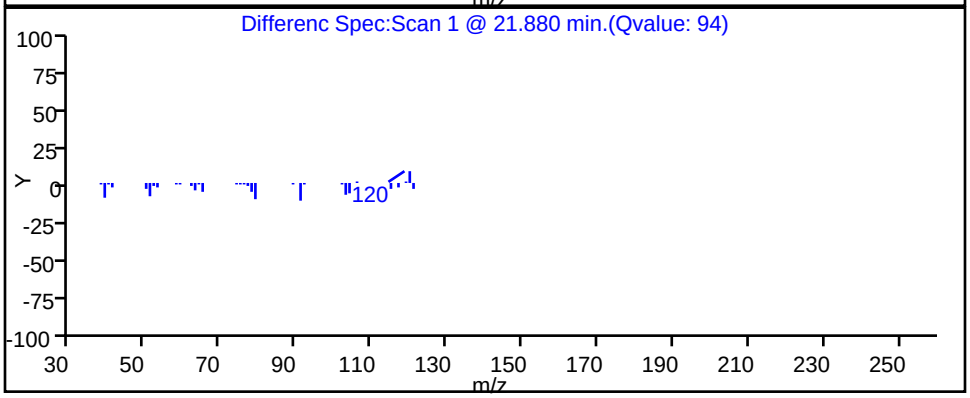












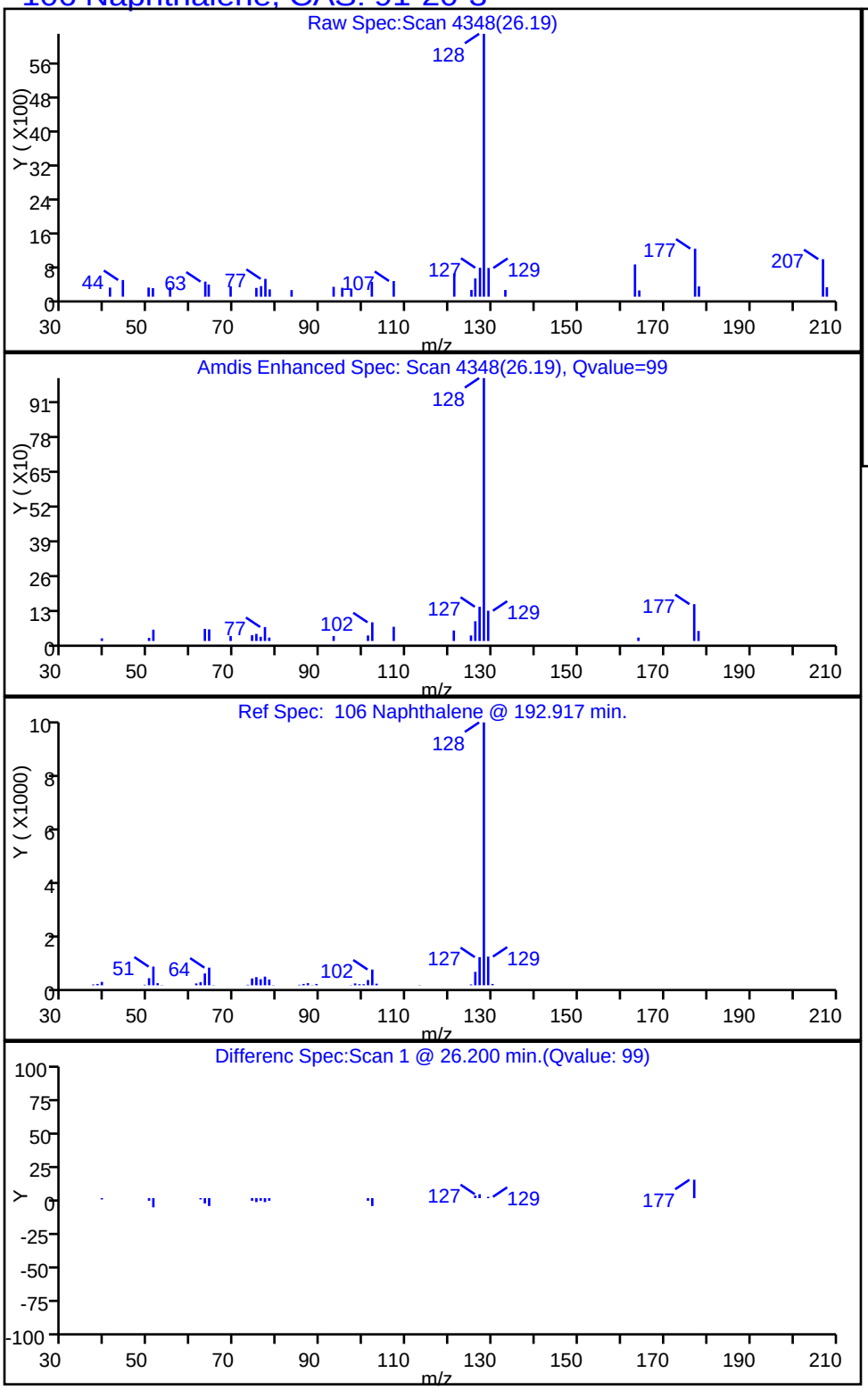
Report Date: 06-Oct-2015 10:19:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

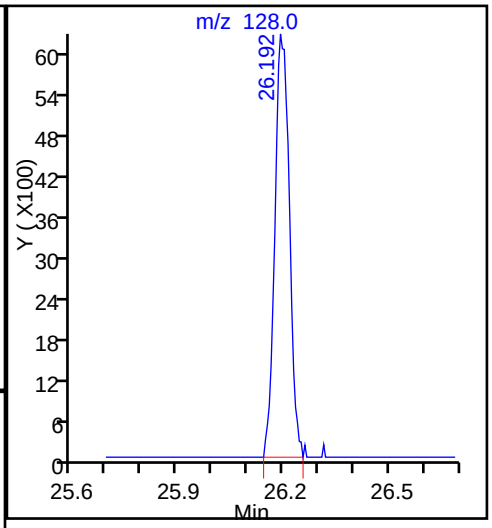
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D

Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

106 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

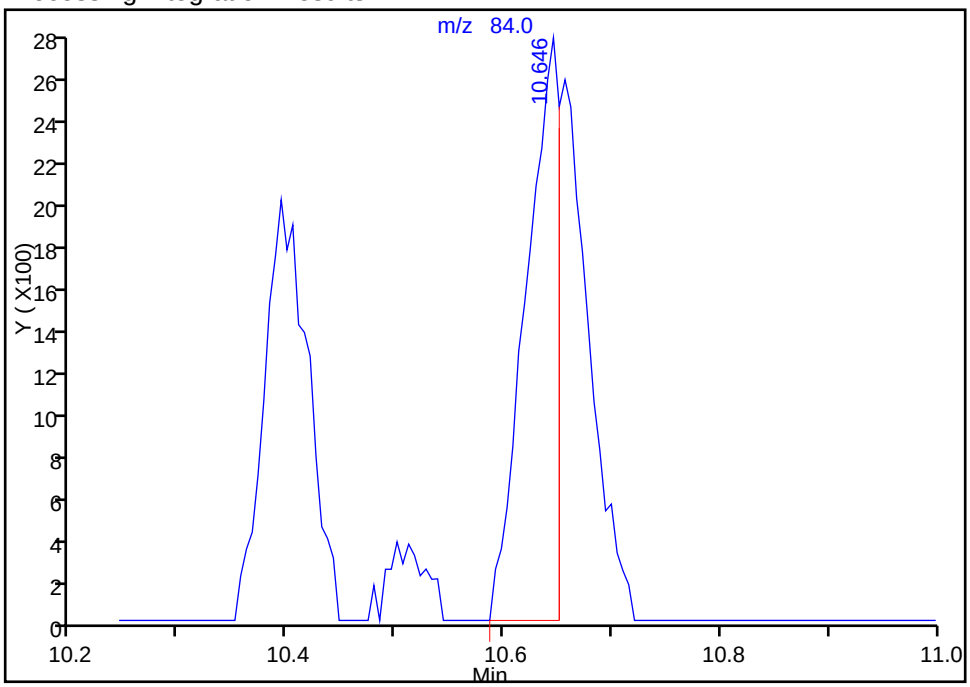
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D				
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

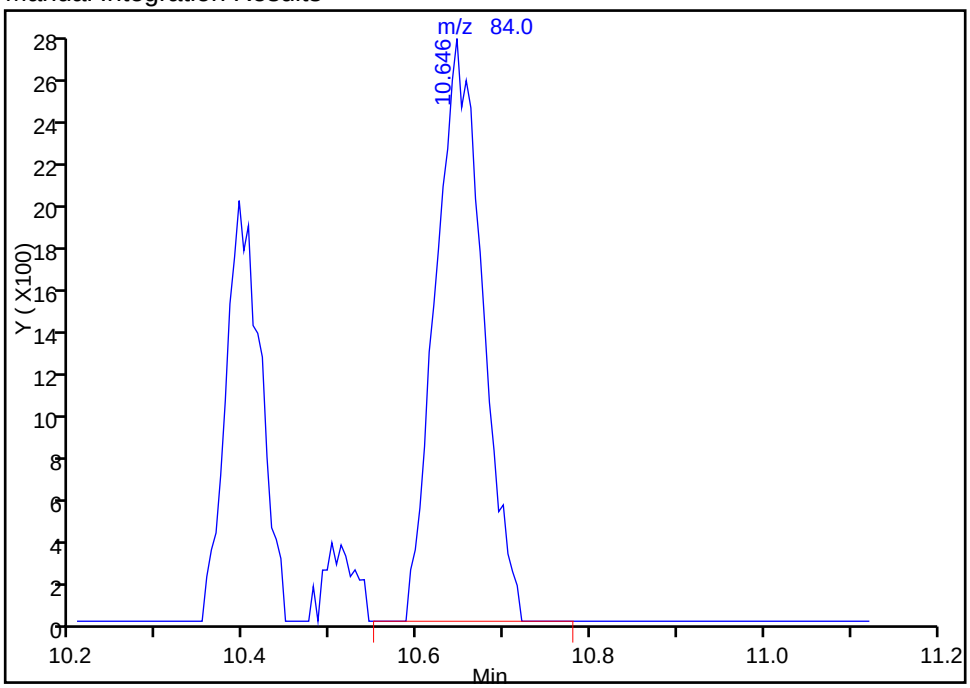
Processing Integration Results

RT: 10.65
Area: 6013
Amount: 0.291999
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 10484
Amount: 0.509116
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:19:55
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

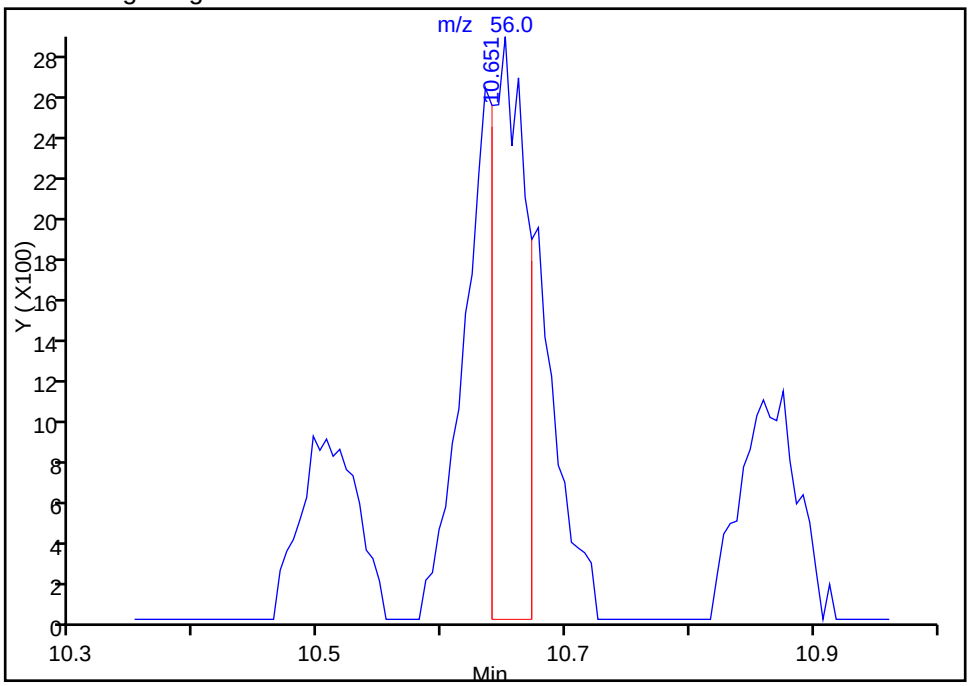
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_18.D				
Injection Date:	05-Oct-2015 22:38:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-1	Lab Sample ID:	200-29972-1		
Client ID:	FR-SS01-092315				
Operator ID:	wrd	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

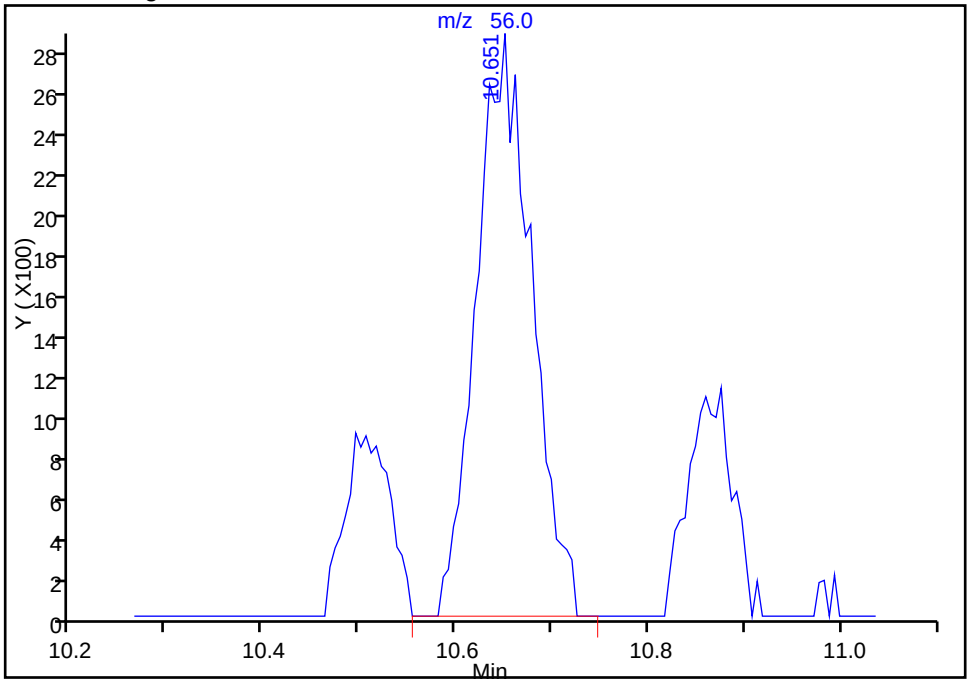
Processing Integration Results

RT: 10.65
Area: 5371
Amount: 0.291999
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 11296
Amount: 0.509116
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:19:55
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 | Lab Sample ID: 200-29972-2

Matrix: Air | Lab File ID: 15991_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 14:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.60		0.50	0.080
75-45-6	Freon 22	86.47	0.36	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.093
106-97-8	*n-Butane*	*58.12*	*70*	*E*	*0.50*	*0.078*
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.33		0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	9.0		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	1.9	J	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	34		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	1.6		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.046
110-82-7	Cyclohexane	84.16	5.5		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.093		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	11		0.20	0.039
71-43-2	Benzene	78.11	12		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 | Lab Sample ID: 200-29972-2

Matrix: Air | Lab File ID: 15991_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 14:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	8.5		0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.96		0.50	0.050
108-88-3	*Toluene*	*92.14*	*50*	*E*	*0.20*	*0.093*
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.082	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	7.3		0.20	0.033
179601-23-1	m,p-Xylene	106.17	25		0.50	0.071
95-47-6	Xylene, o-	106.17	7.9		0.20	0.037
1330-20-7	Xylene (total)	106.17	33		0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.47		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.53		0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.81		0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.51		0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	1.3		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 Lab Sample ID: 200-29972-2

Matrix: Air Lab File ID: 15991_006.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 | Lab Sample ID: 200-29972-2

Matrix: Air | Lab File ID: 15991_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 14:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.0		2.5	0.40
75-45-6	Freon 22	86.47	1.3	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.2		1.0	0.19
106-97-8	*n-Butane*	*58.12*	*170*	*E*	*1.2*	*0.19*
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	21		12	2.0
67-63-0	Isopropyl alcohol	60.10	4.6	J	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	120		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	4.7		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.25
110-82-7	Cyclohexane	84.16	19		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.59		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	50		0.93	0.18
71-43-2	Benzene	78.11	39		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 | Lab Sample ID: 200-29972-2

Matrix: Air | Lab File ID: 15991_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 14:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	35		0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	3.9		2.0	0.20
108-88-3	*Toluene*	*92.14*	*190*	*E*	*0.75*	*0.35*
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.56	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	32		0.87	0.14
179601-23-1	m,p-Xylene	106.17	110		2.2	0.31
95-47-6	Xylene, o-	106.17	34		0.87	0.16
1330-20-7	Xylene (total)	106.17	140		3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	2.3		0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	2.6		0.98	0.21
622-96-8	4-Ethyltoluene	120.20	4.0		0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	2.5		0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	6.6		0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 Lab Sample ID: 200-29972-2

Matrix: Air Lab File ID: 15991_006.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:19

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d
Lims ID: 200-29972-A-2 Lab Sample ID: 200-29972-2
Client ID: FR-IA01-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 14:37:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-006
Misc. Info.: 29972-02
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:19:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	98	26874	0.6002	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	95	6498	0.3600	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.004	5.009	-0.005	97	5256	0.6009	
6 Butane	43	5.292	5.282	0.010	95	897555	70.4	E
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	96	16721	0.3290	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96		8.663				ND	
22 Acetone	43	8.941	8.935	0.006	97	141902	9.00	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.230	9.219	0.011	97	23654	1.88	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49		9.925				ND	
28 2-Methyl-2-propanol	59	10.118	10.112	0.006	7	2375	0.1068	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73	10.385	10.369	0.016	1	1358	0.0351	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	89	517715	33.7	
34 1,1-Dichloroethane	63		11.428				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.654	12.653	0.001	96	11517	1.58	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	141007	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84	13.510	13.509	0.001	89	110458	5.46	
44 1,1,1-Trichloroethane	97		13.531				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.788	13.782	0.006	56	4438	0.0931	
46 Isooctane	57	14.184	14.183	0.001	98	586868	10.7	
47 Benzene	78	14.248	14.253	-0.005	93	573409	12.1	
48 1,2-Dichloroethane	62		14.419				ND	
49 n-Heptane	43	14.531	14.531	0.000	82	145159	8.51	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	698165	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.624	17.623	0.001	93	23880	0.9615	
65 Toluene	92	17.955	17.960	-0.005	94	2060290	49.5	E
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166	18.988	18.987	0.001	95	4124	0.0824	
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		32.7	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	718776	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.898	20.897	0.001	97	678677	7.30	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	932567	24.8	
79 o-Xylene	106	21.802	21.801	0.001	99	292787	7.91	
80 Styrene	104		21.839				ND	M
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.352	-0.005	95	53658	0.4731	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.973	22.973	0.000	0	72750	0.5326	M
88 4-Ethyltoluene	105	23.139	23.144	-0.005	99	102142	0.8142	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	94	55270	0.5097	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	143241	1.33	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119		24.268				ND	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	42	886	0.0101	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128		28.767				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

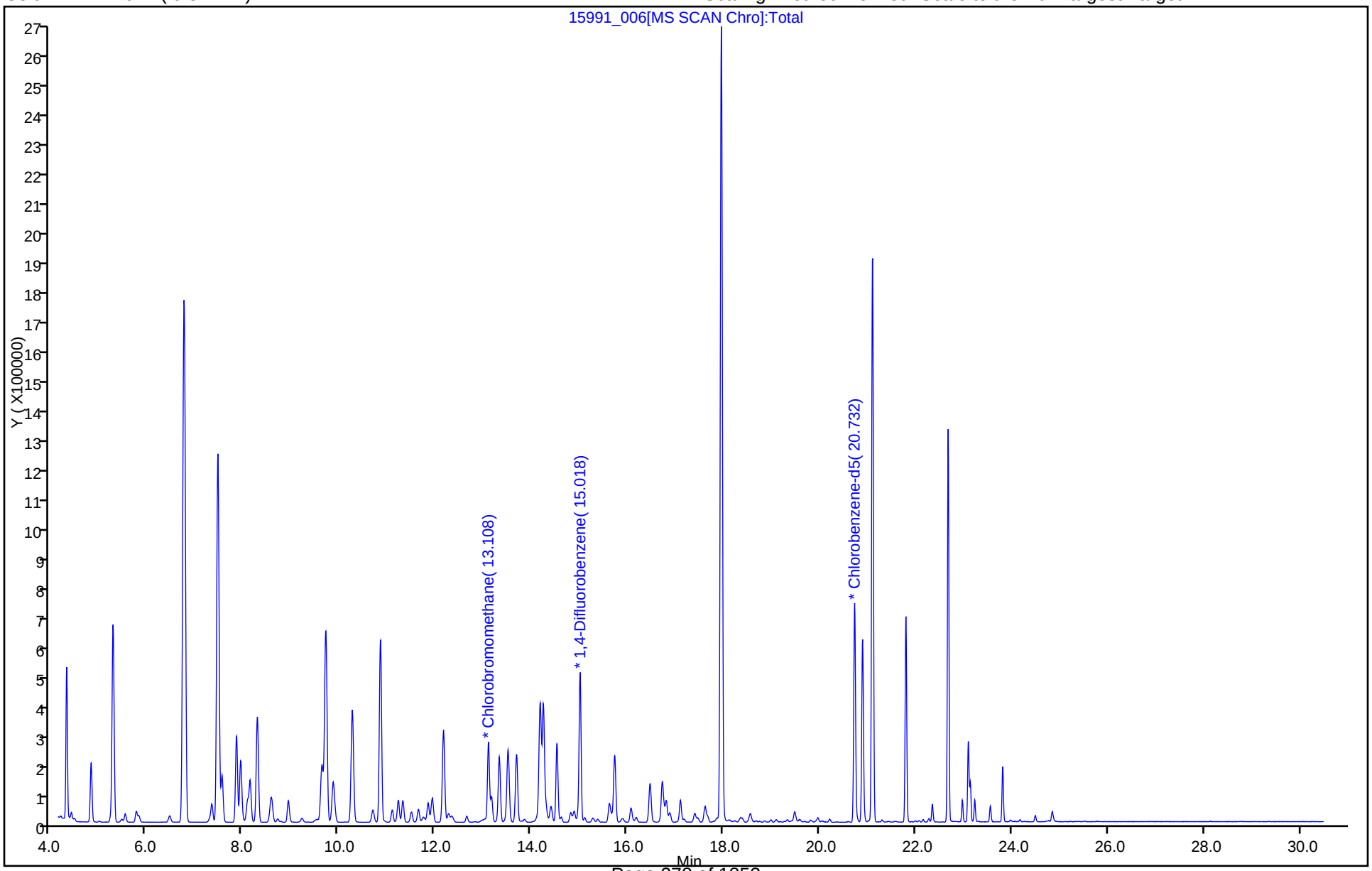
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2	Worklist Smp#:	6
Client ID:	FR-IA01-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

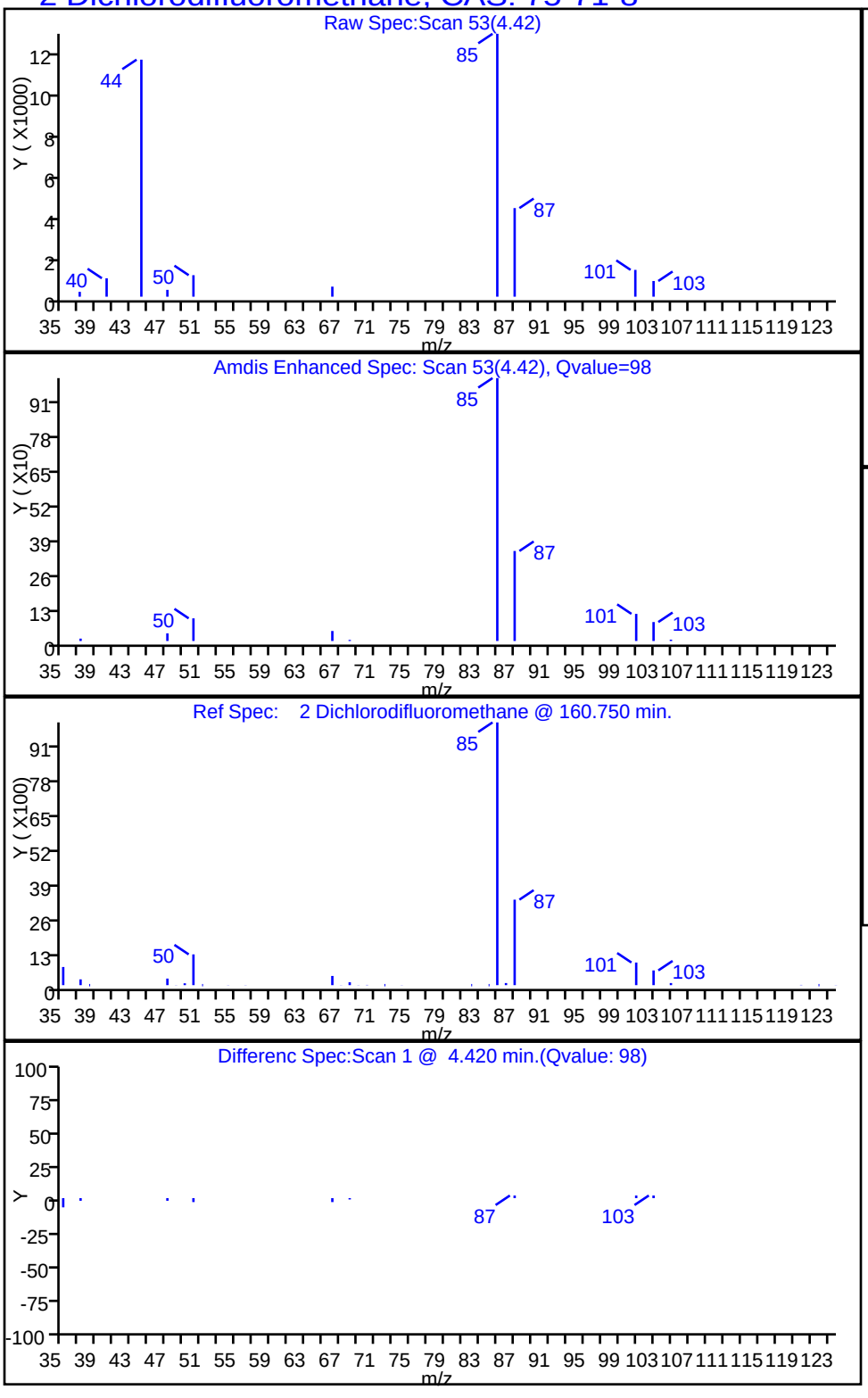


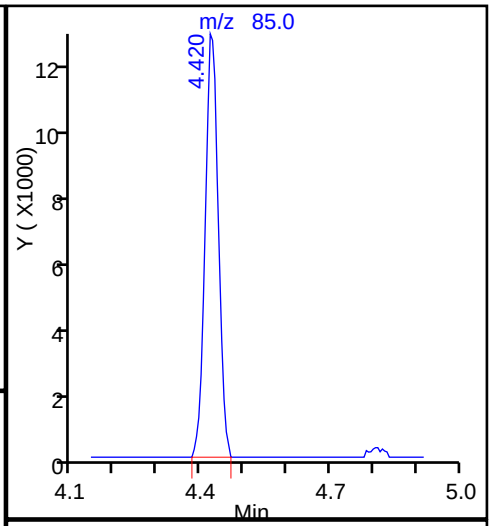
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

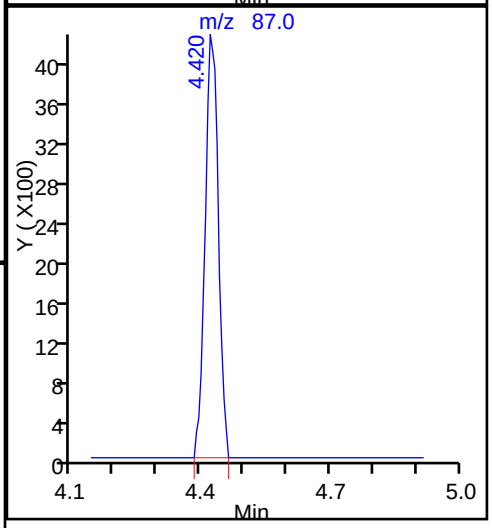
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8







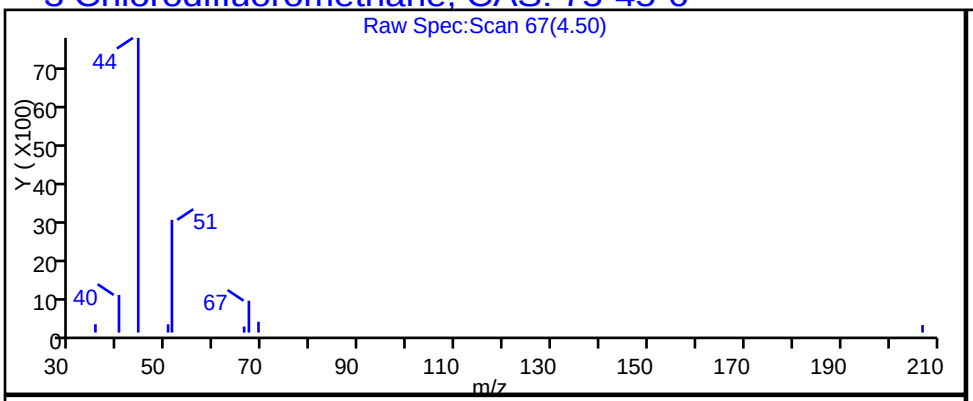
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

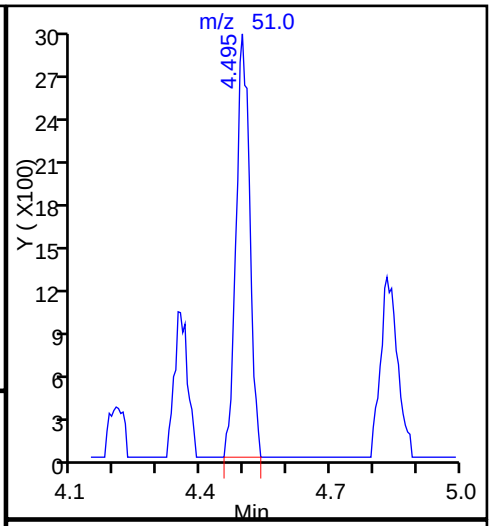
TestAmerica Burlington

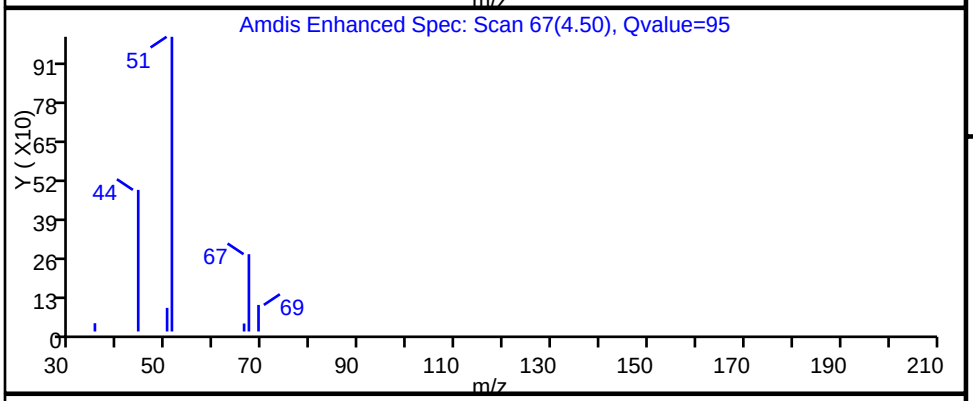
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

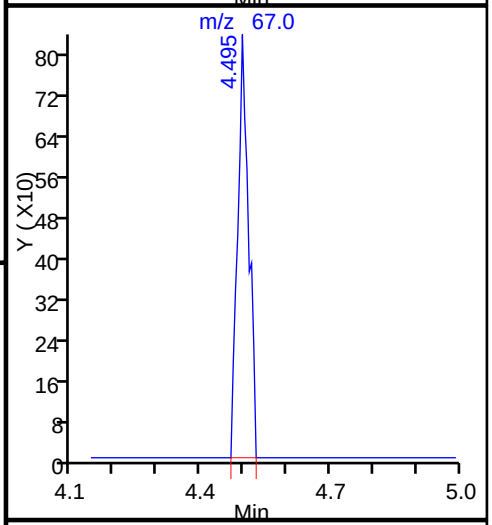
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

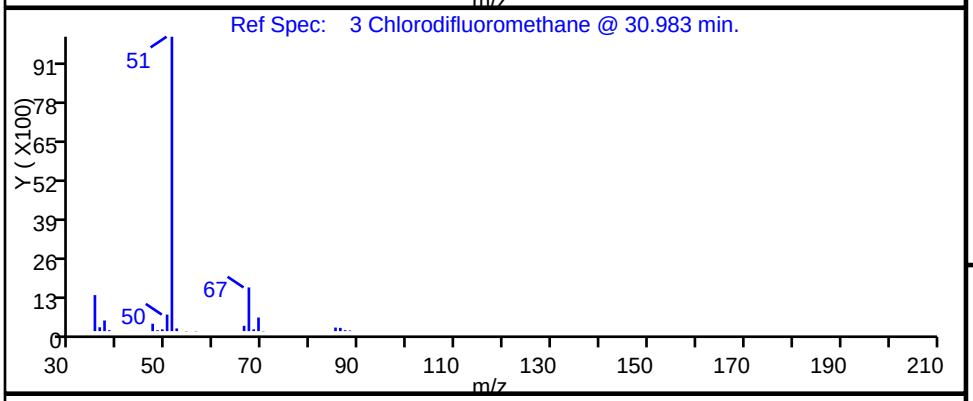
3 Chlorodifluoromethane, CAS: 75-45-6

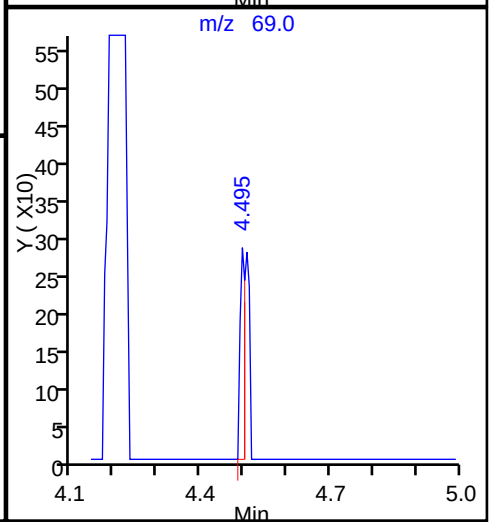


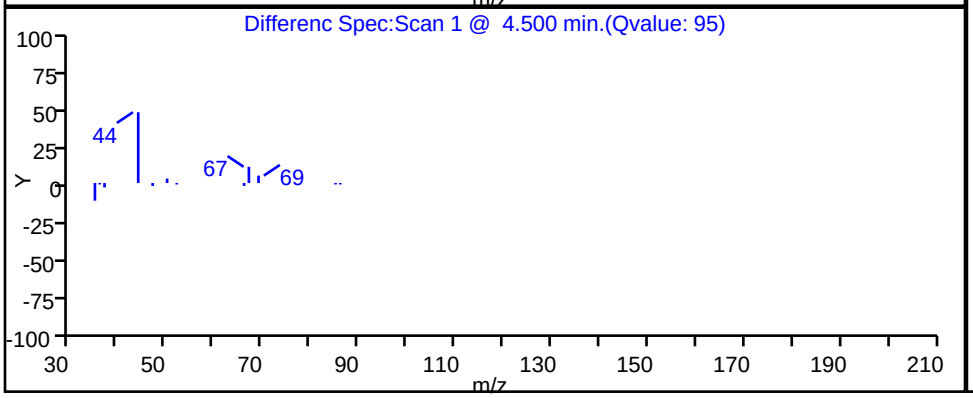












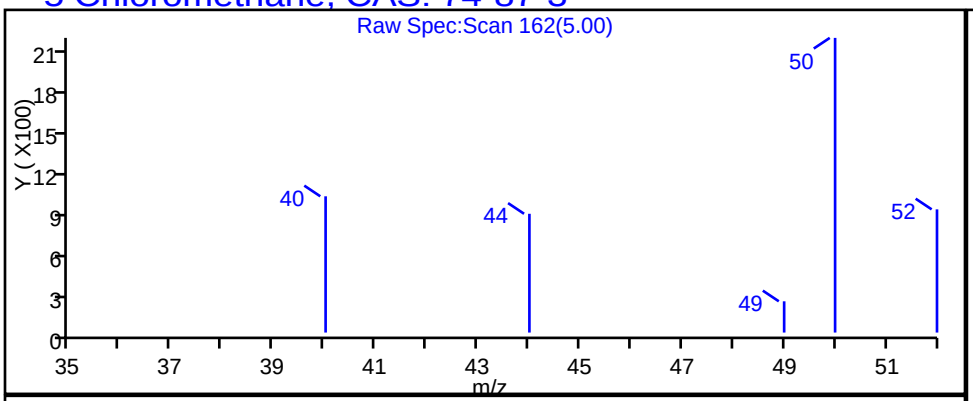
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

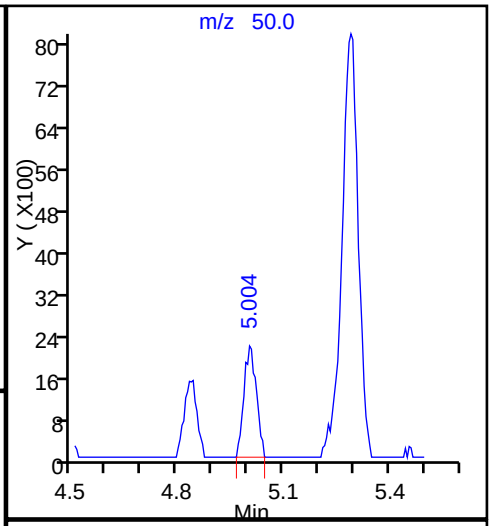
TestAmerica Burlington

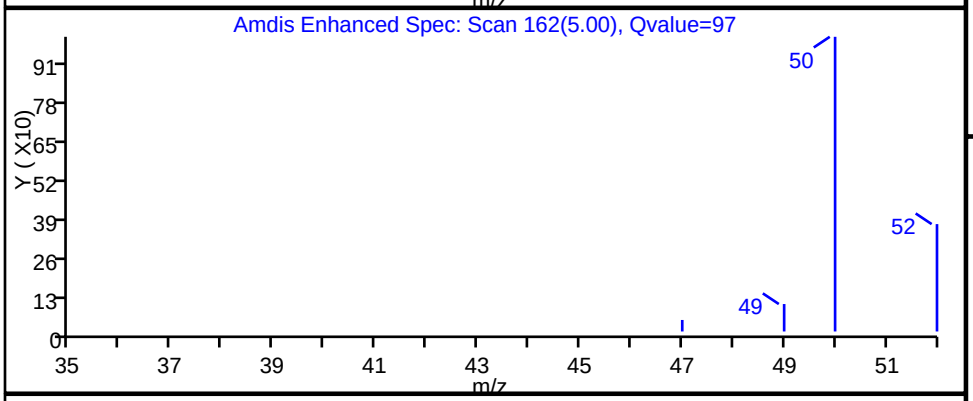
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

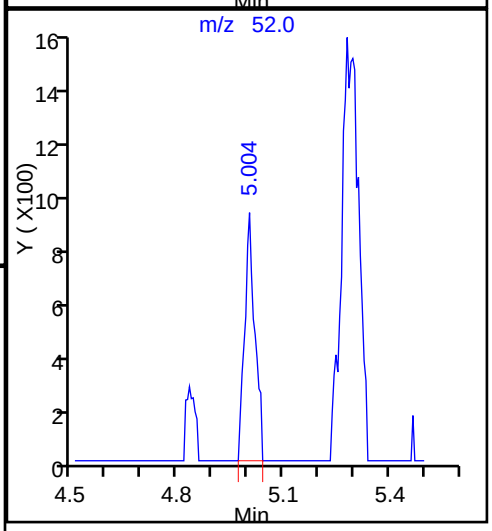
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

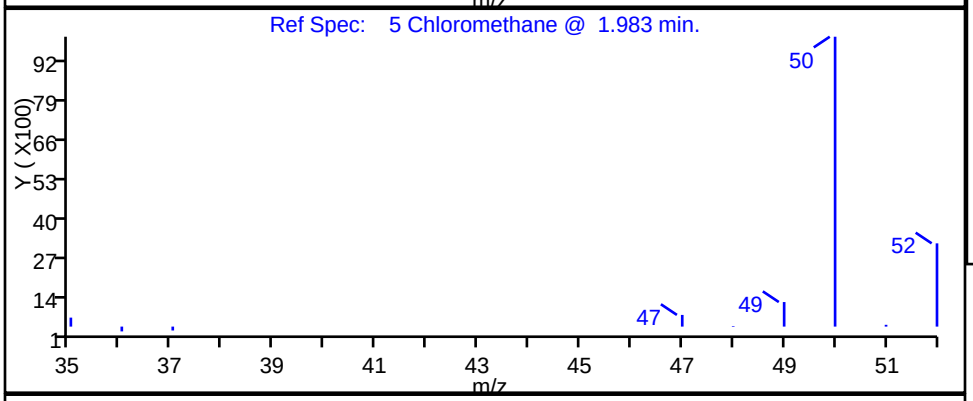
5 Chloromethane, CAS: 74-87-3

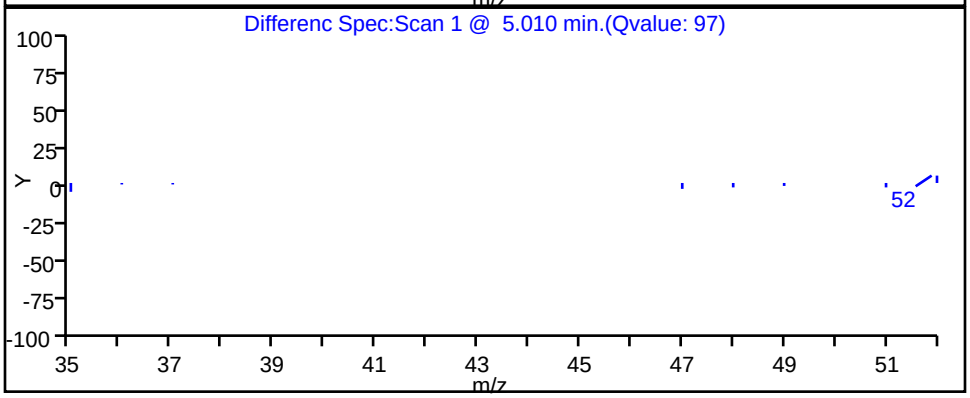












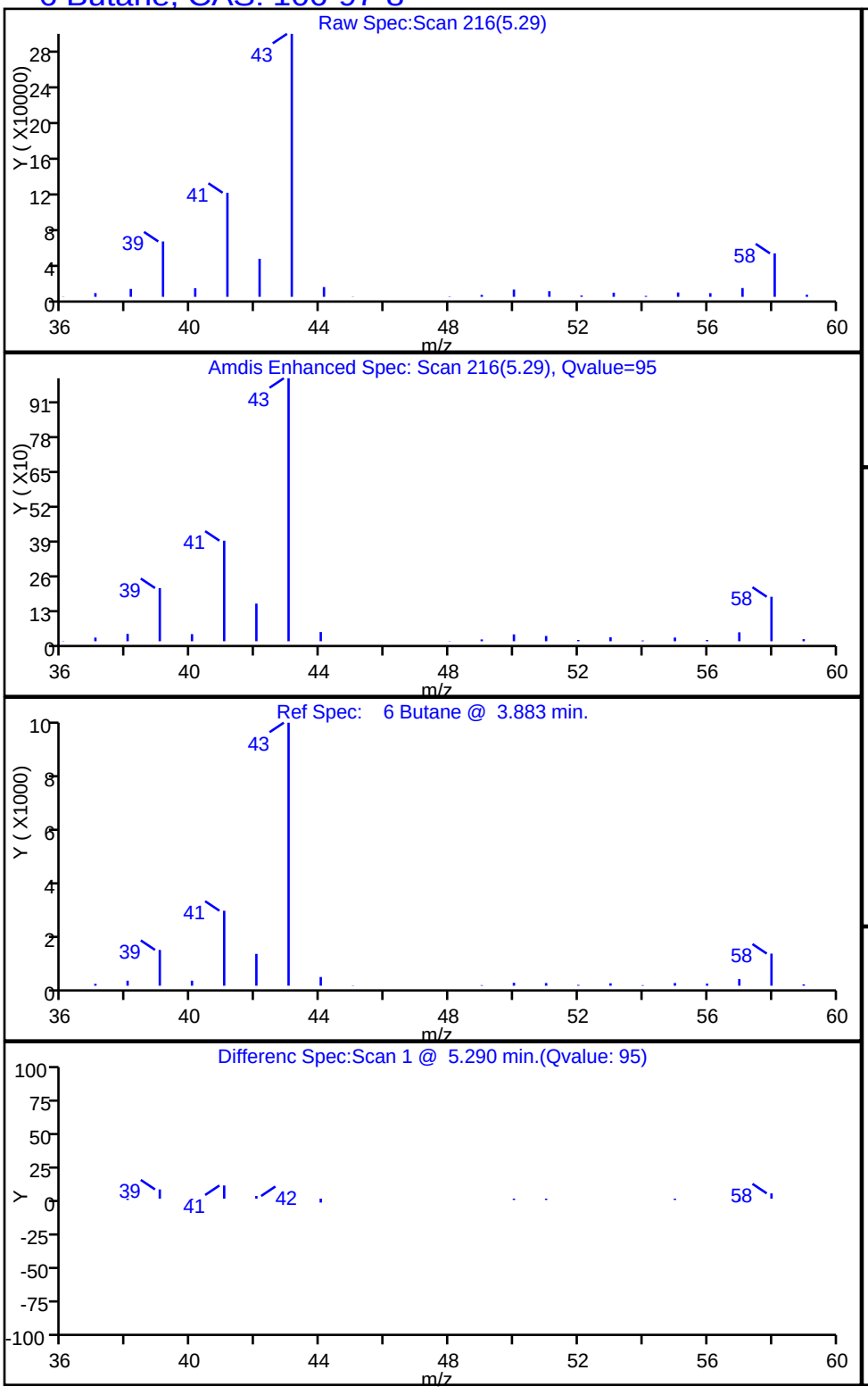
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

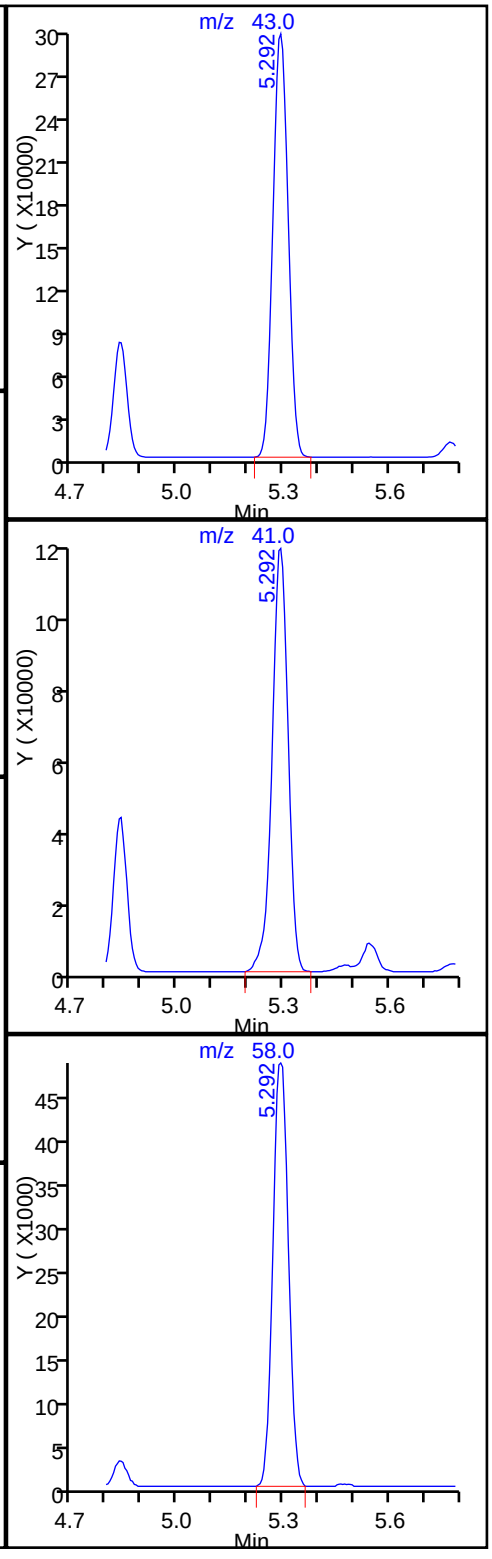
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

6 Butane, CAS: 106-97-8





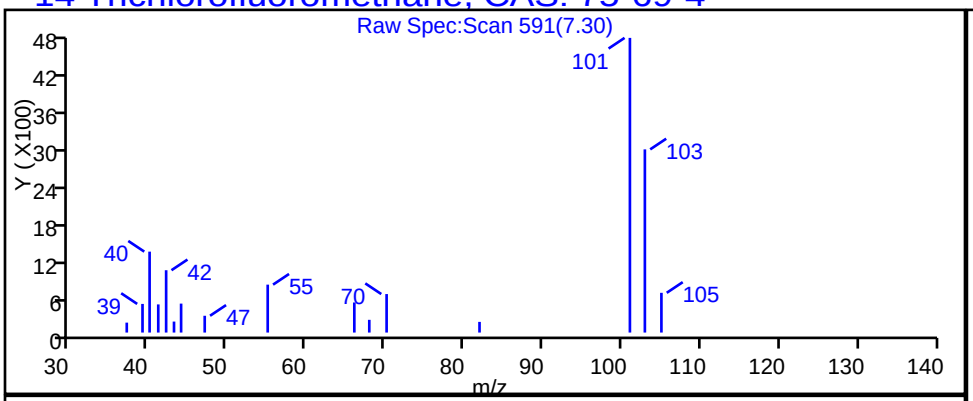
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

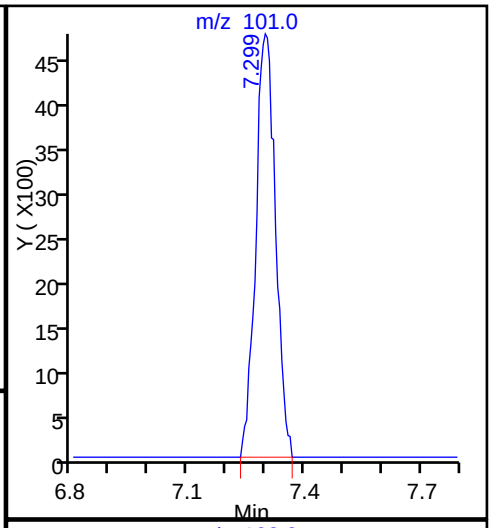
TestAmerica Burlington

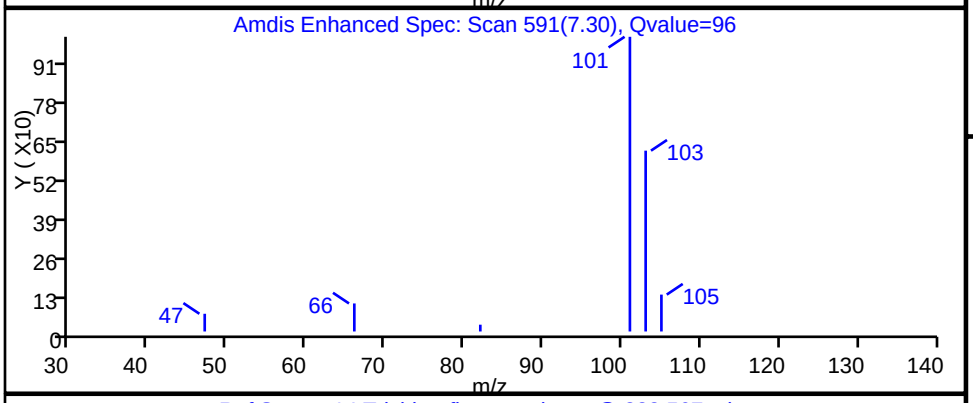
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

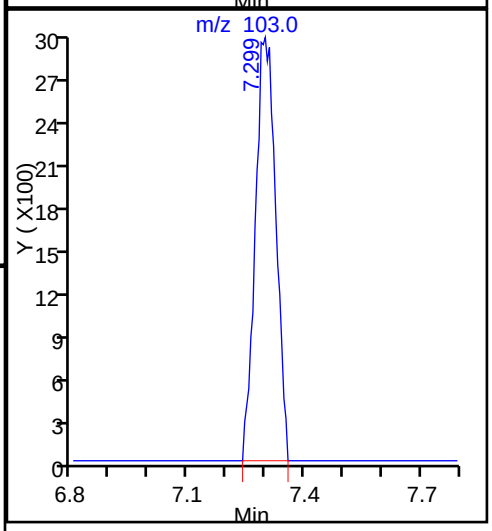
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

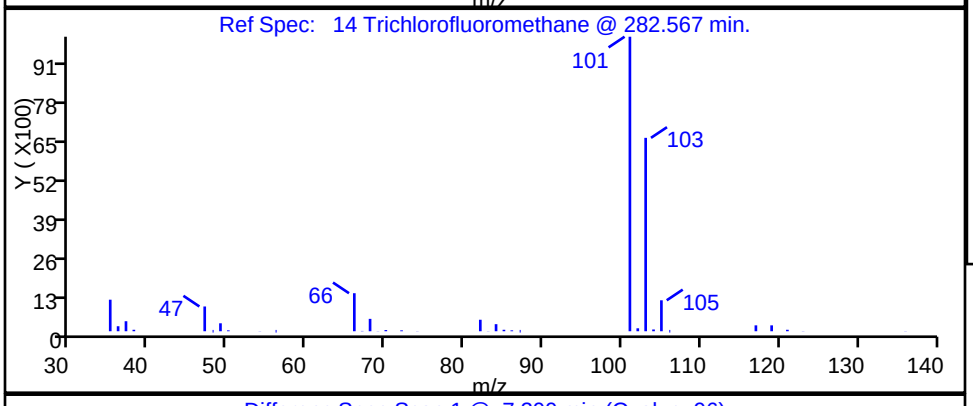
14 Trichlorofluoromethane, CAS: 75-69-4

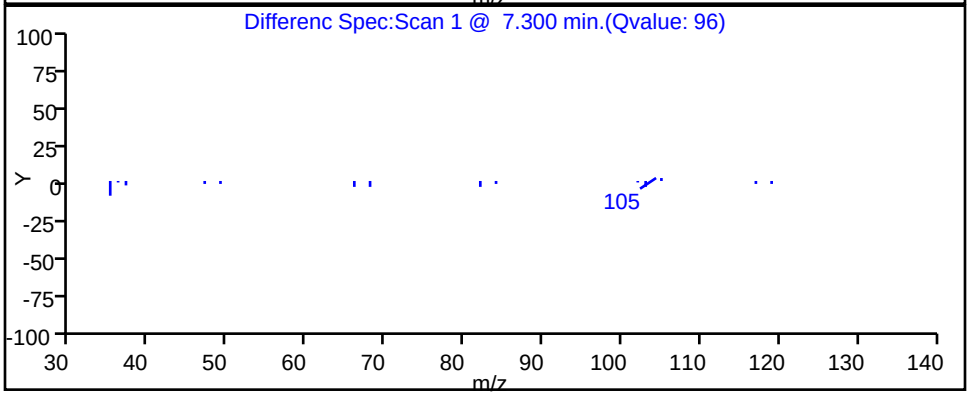










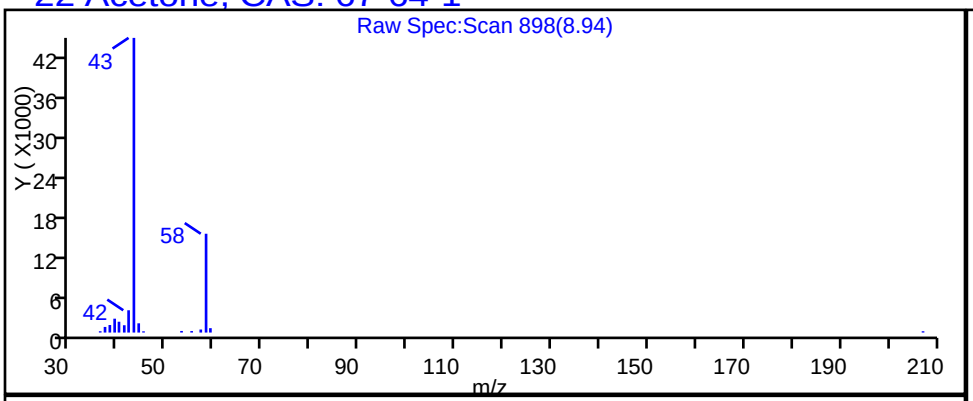


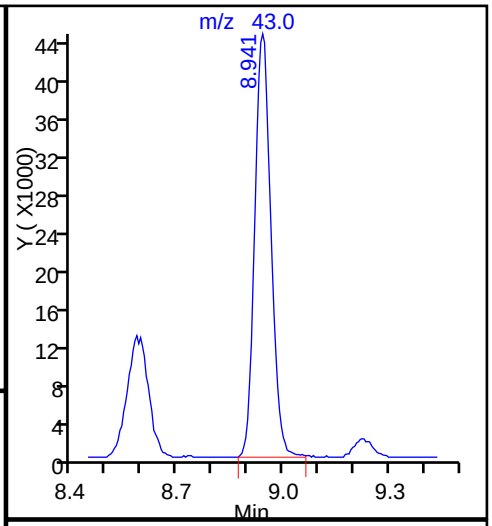
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

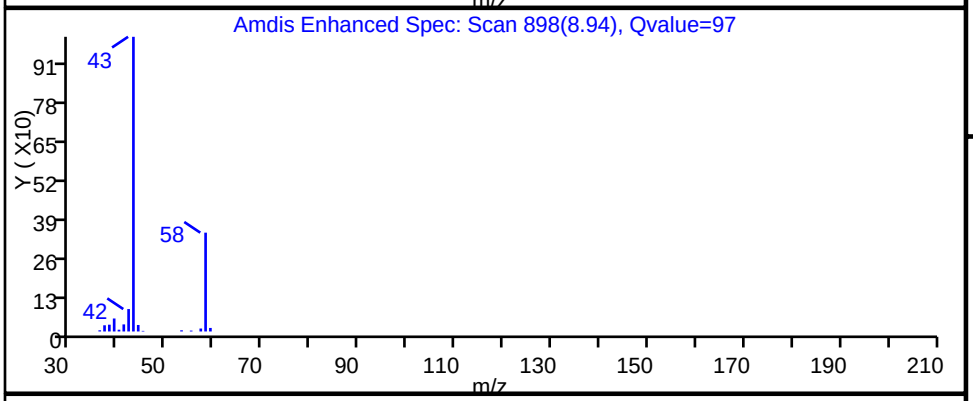
TestAmerica Burlington

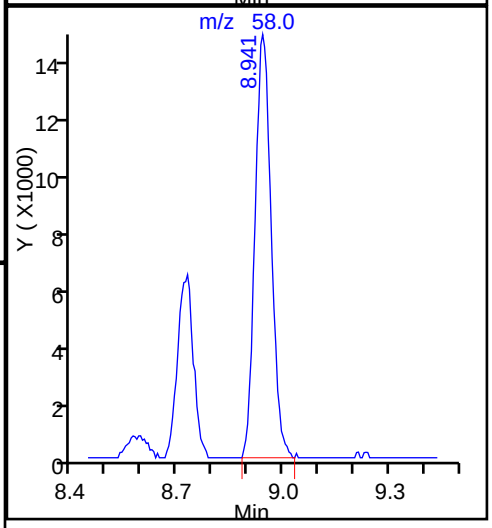
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d		
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

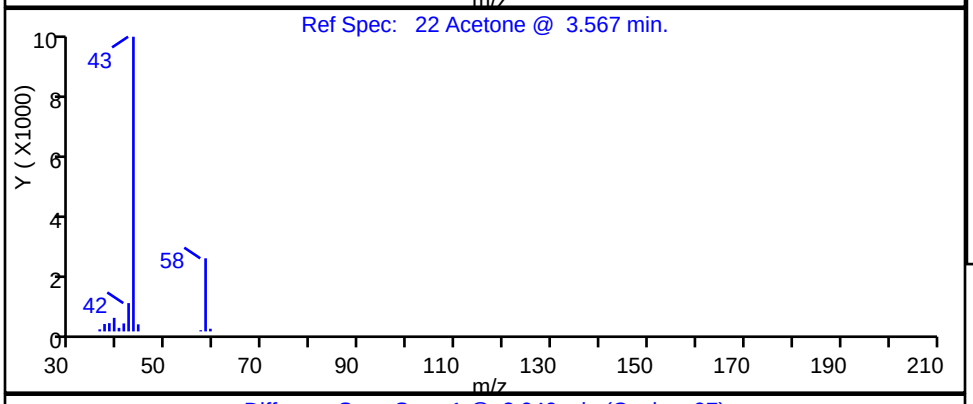
22 Acetone, CAS: 67-64-1

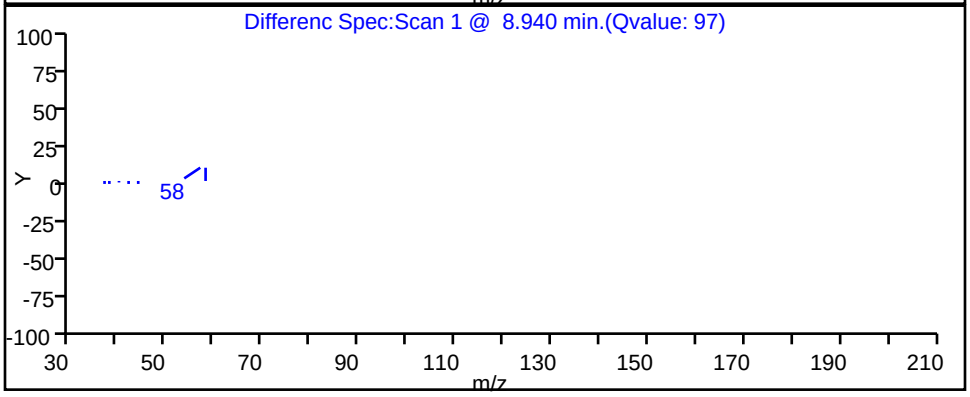












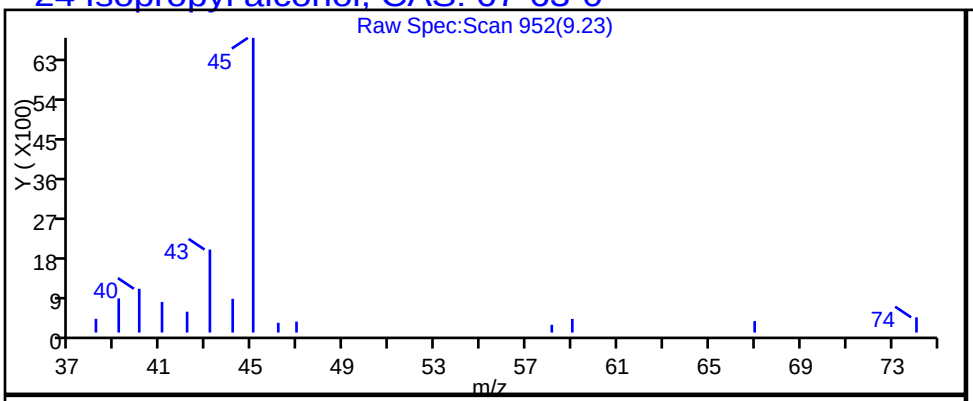
Report Date: 30-Sep-2015 14:16:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

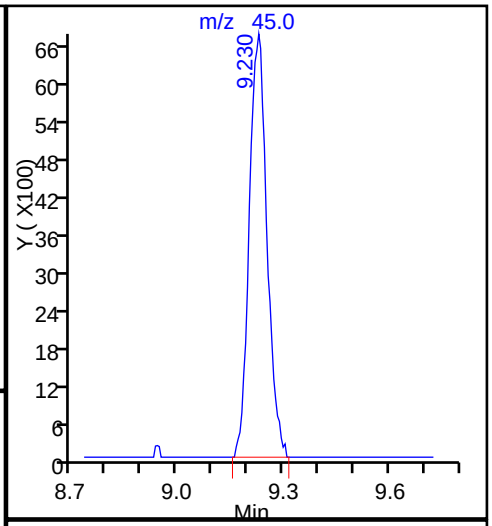
TestAmerica Burlington

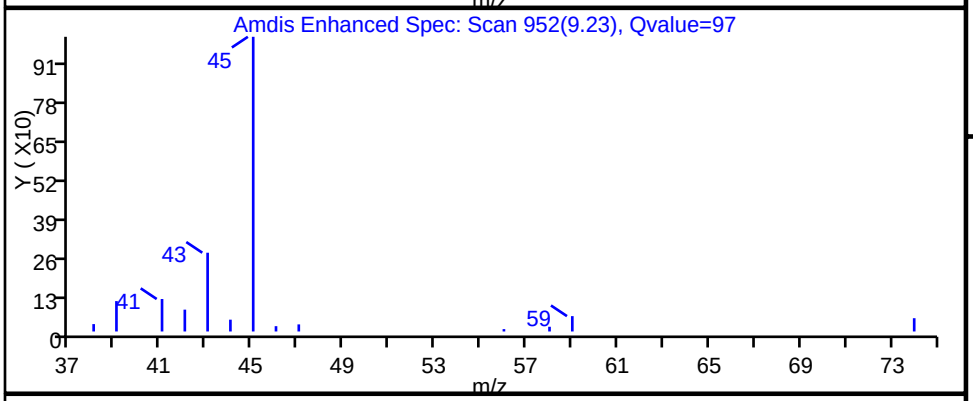
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

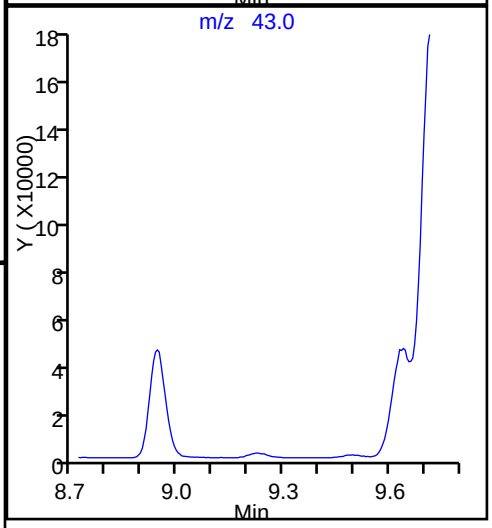
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

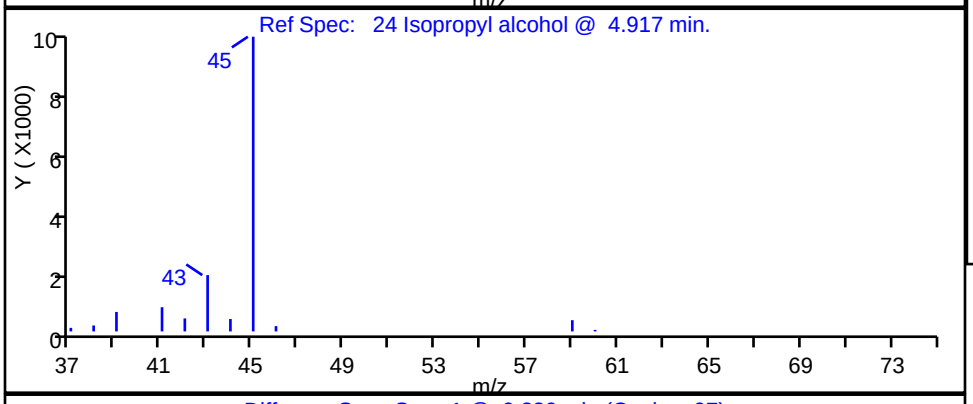
24 Isopropyl alcohol, CAS: 67-63-0

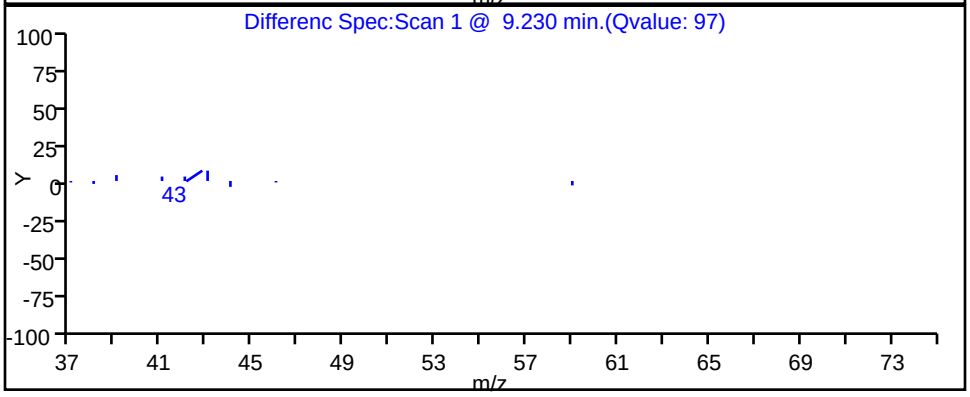










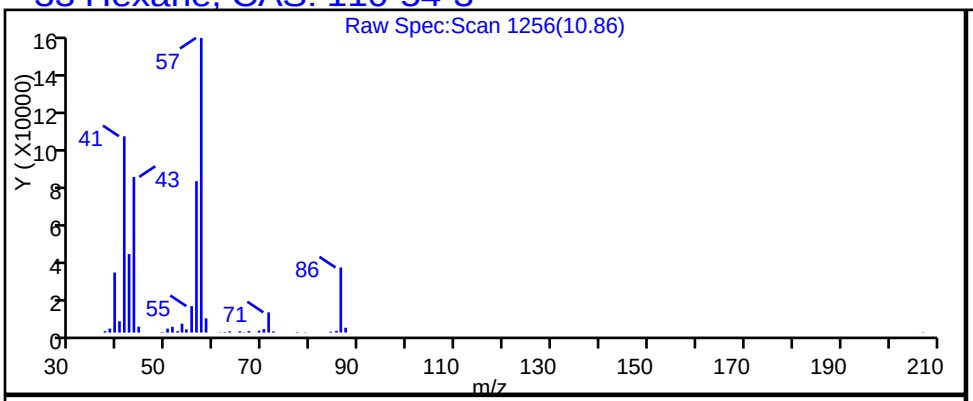


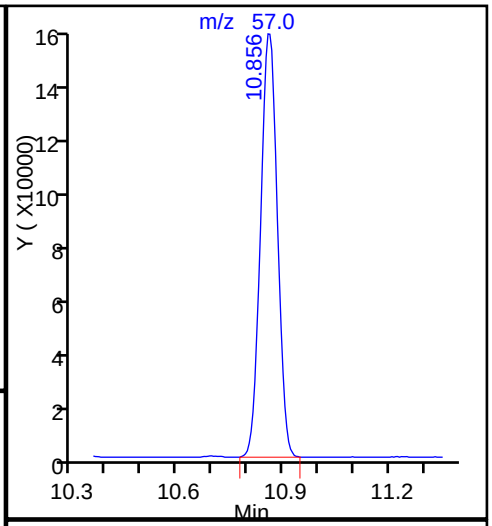
Report Date: 30-Sep-2015 14:16:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

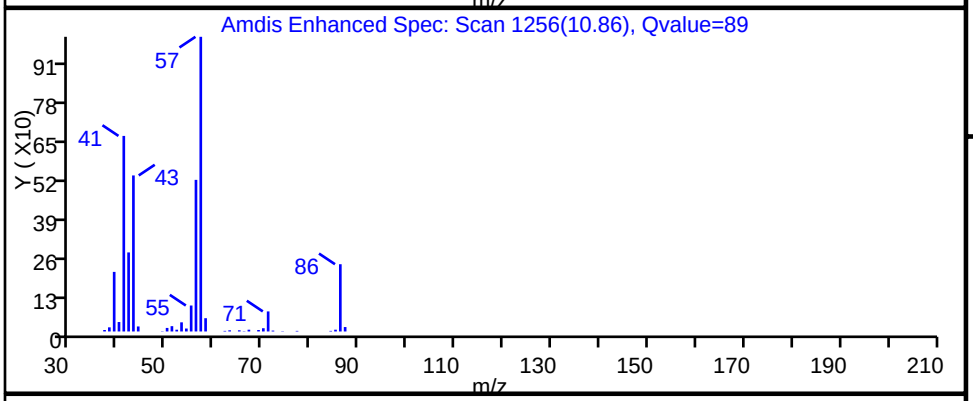
TestAmerica Burlington

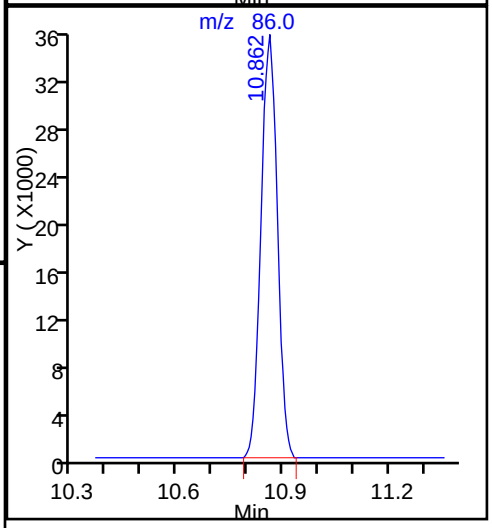
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

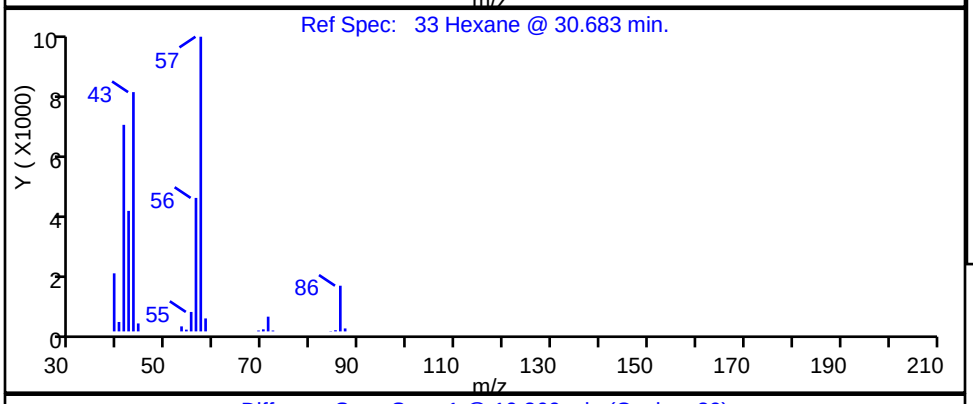
33 Hexane, CAS: 110-54-3

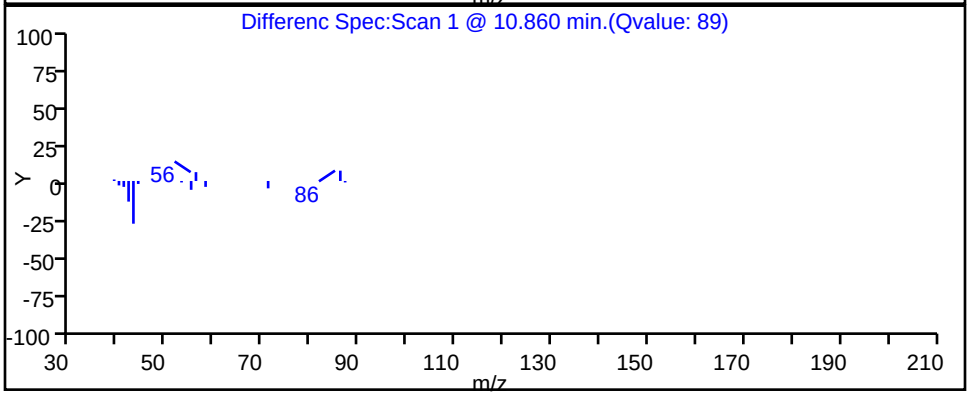










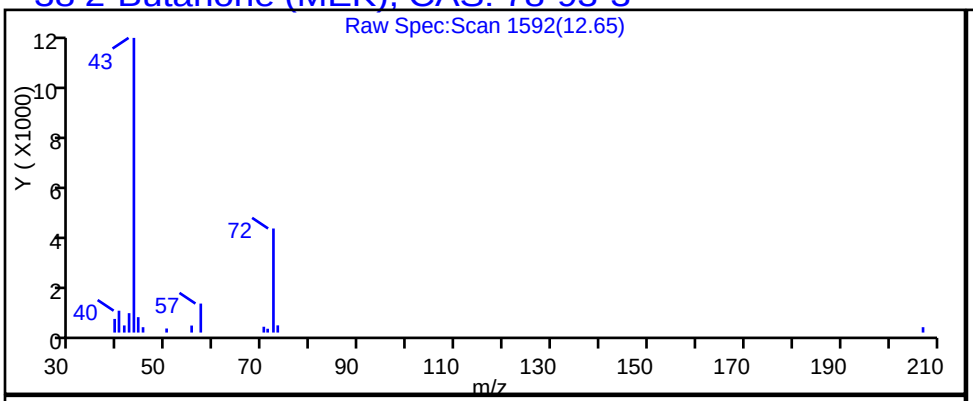


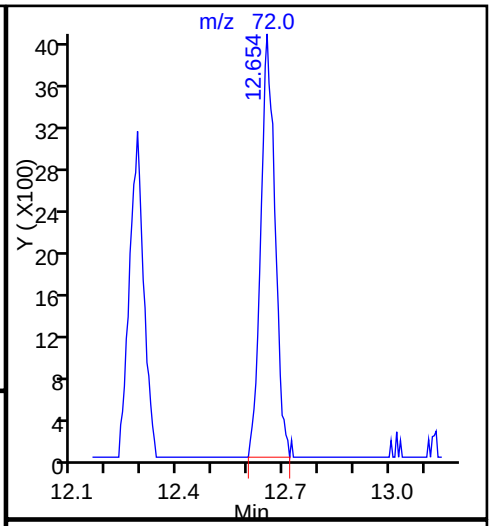
Report Date: 30-Sep-2015 14:16:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

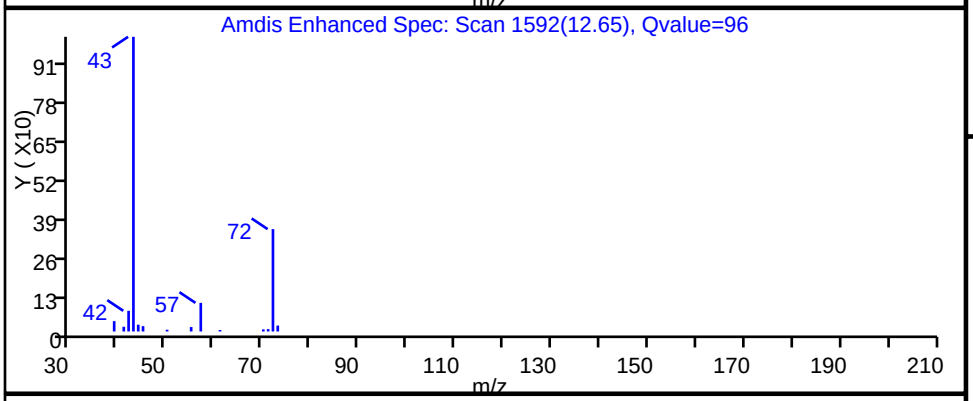
TestAmerica Burlington

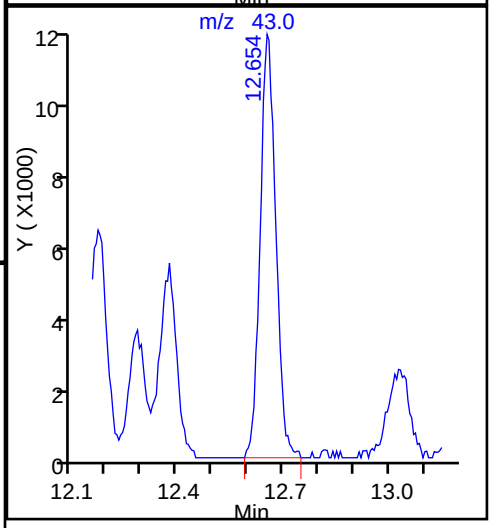
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

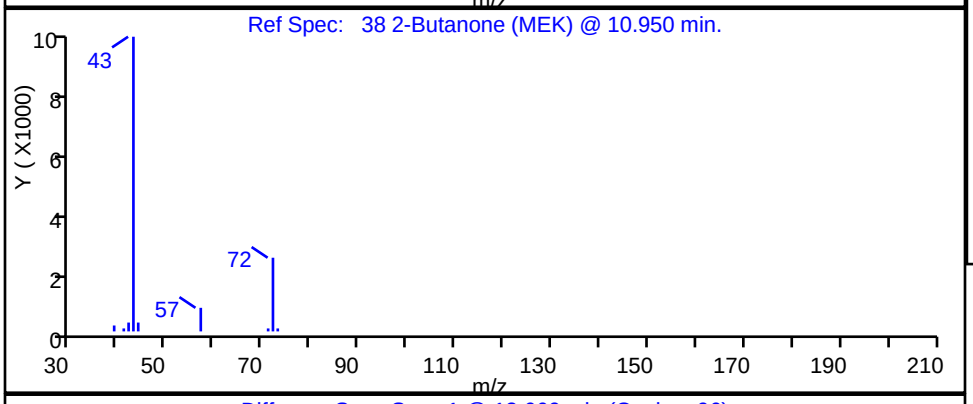
38 2-Butanone (MEK), CAS: 78-93-3

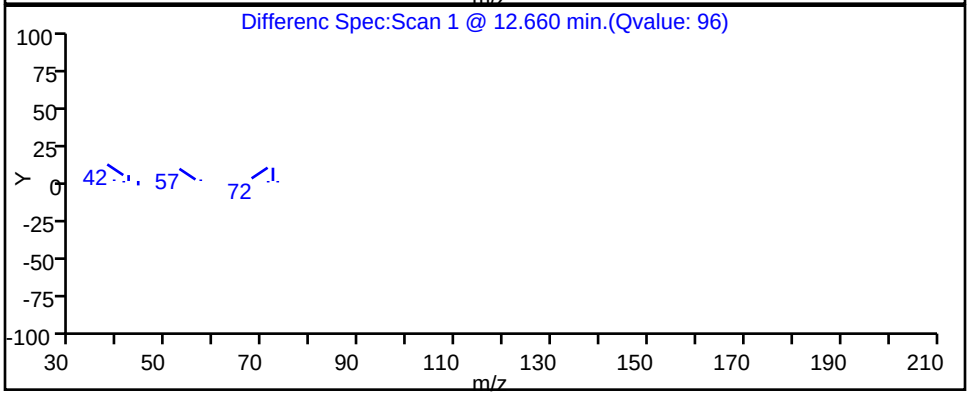










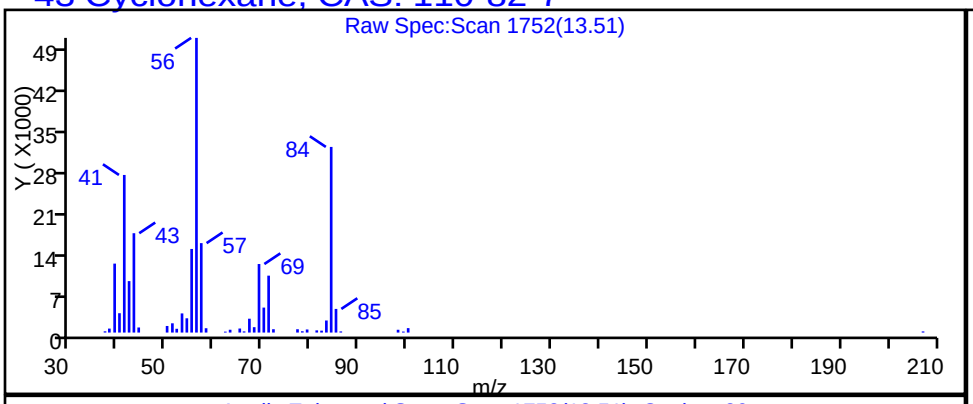


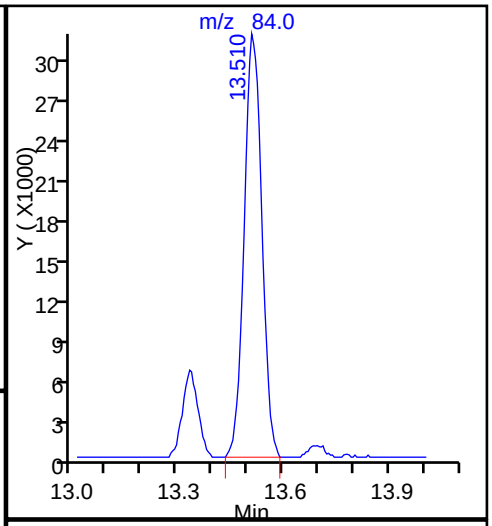
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

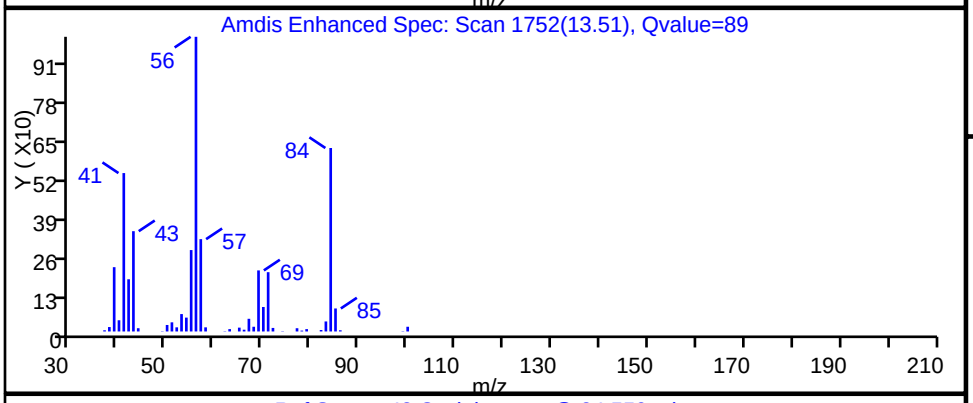
TestAmerica Burlington

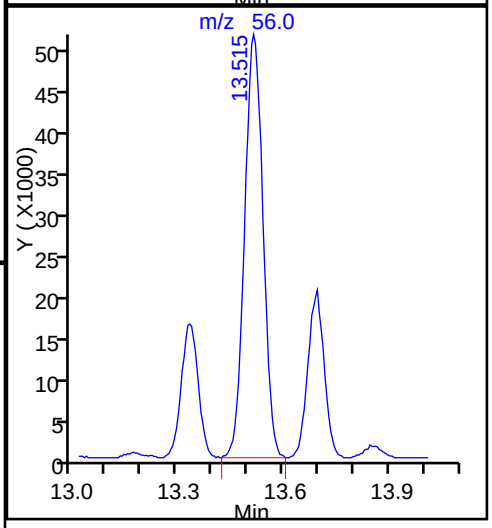
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

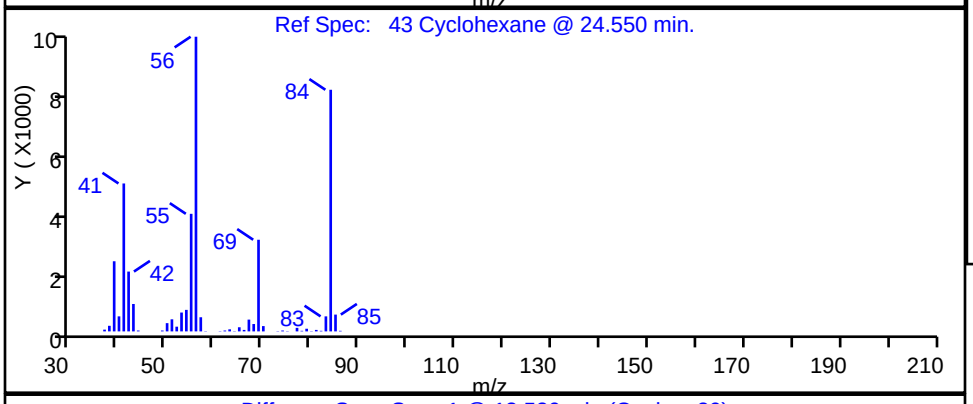
43 Cyclohexane, CAS: 110-82-7

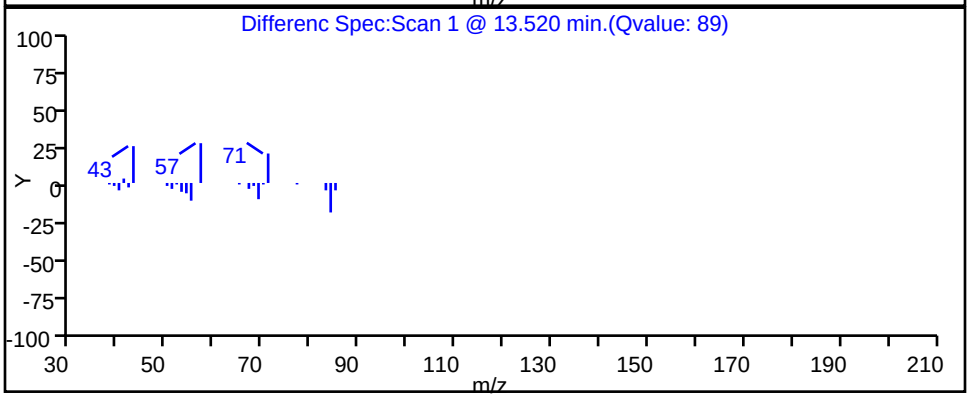












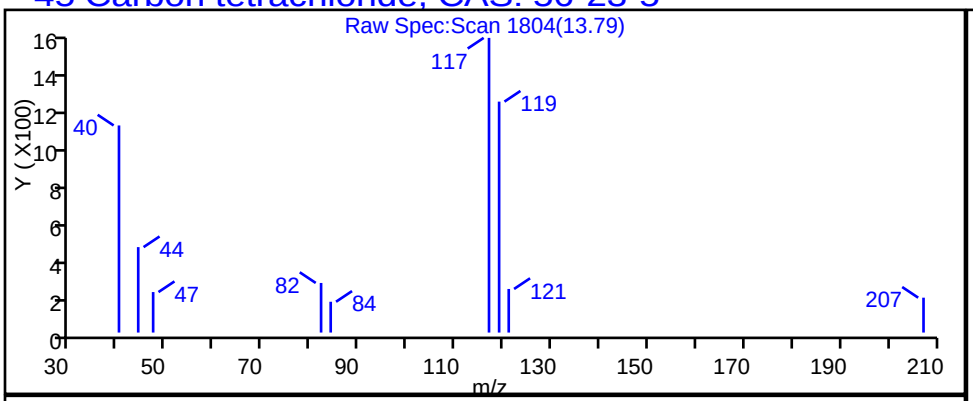
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

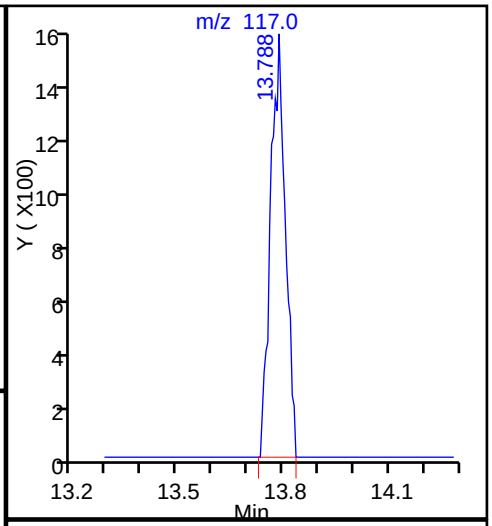
TestAmerica Burlington

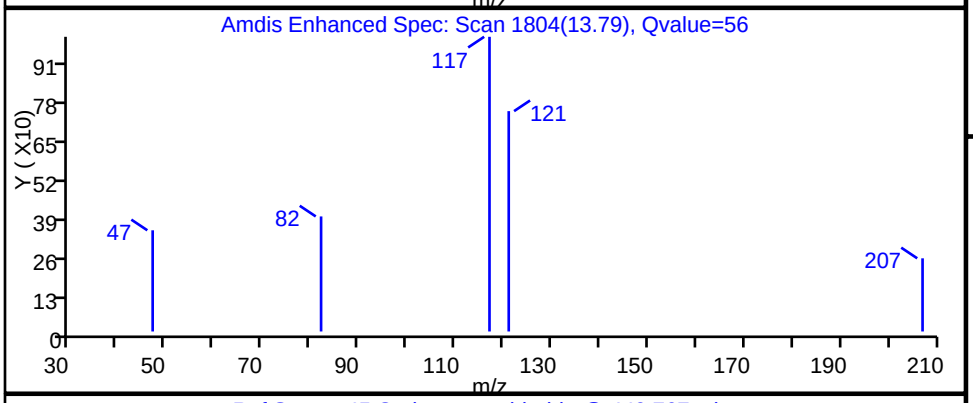
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

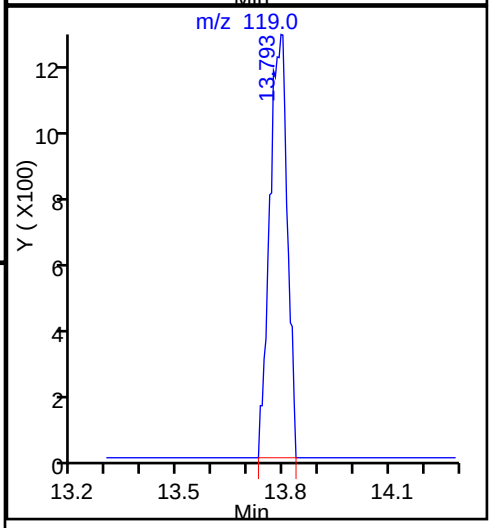
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

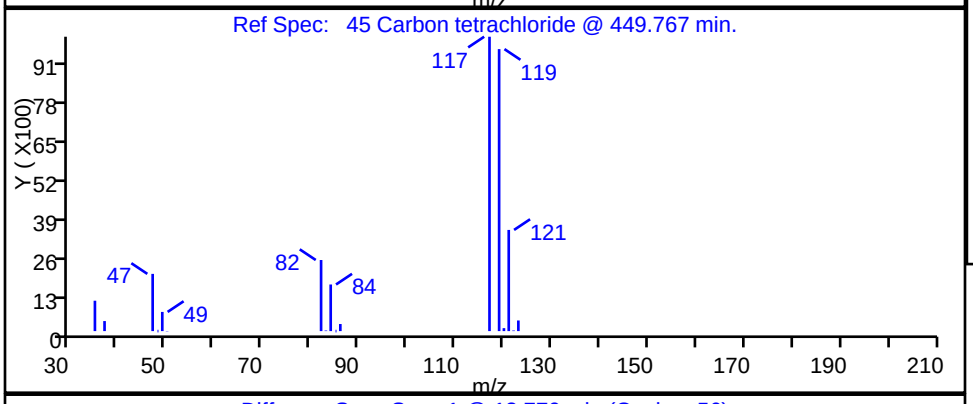
45 Carbon tetrachloride, CAS: 56-23-5

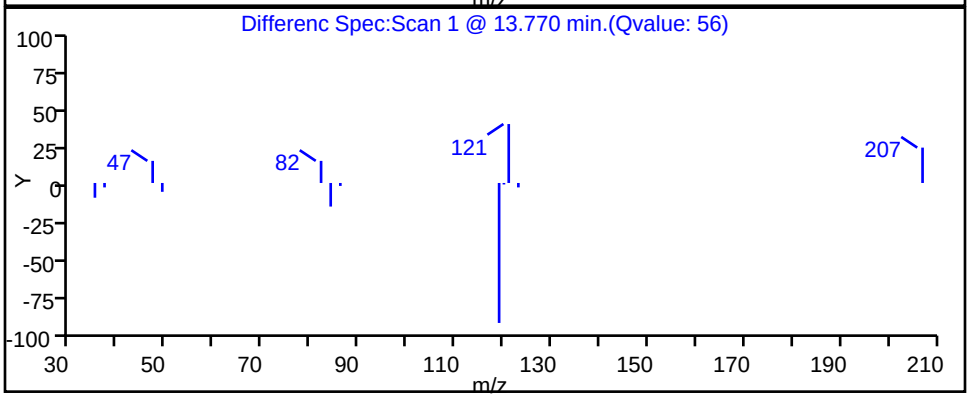












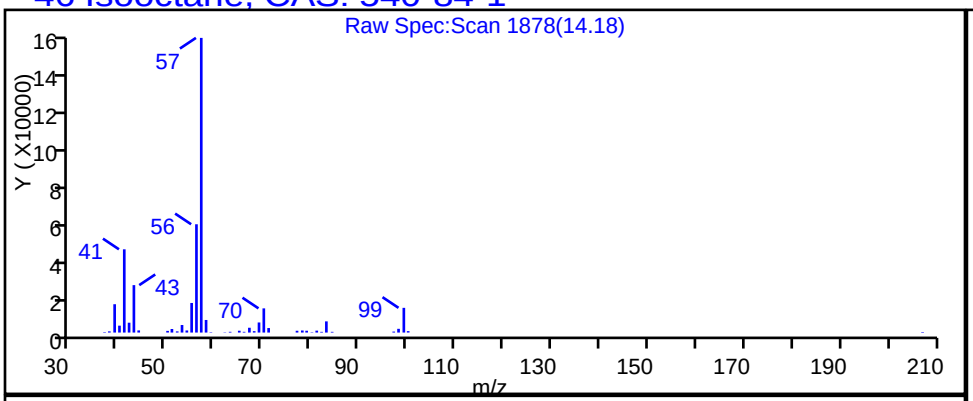
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

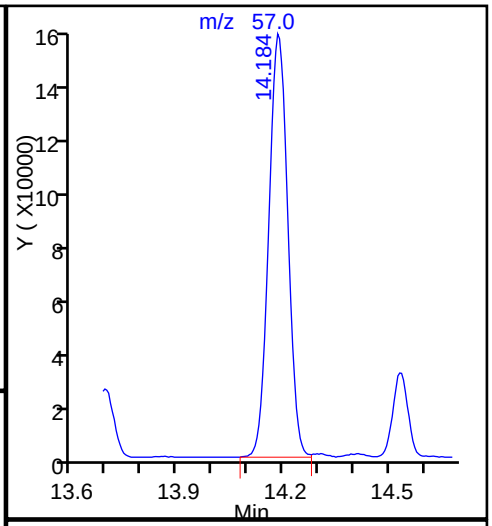
TestAmerica Burlington

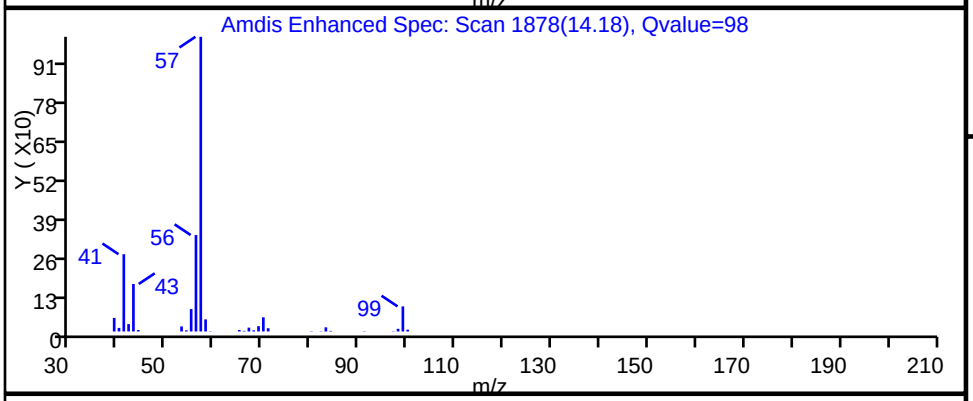
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

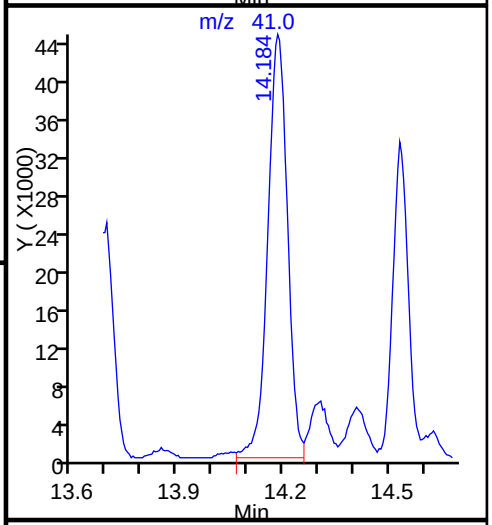
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

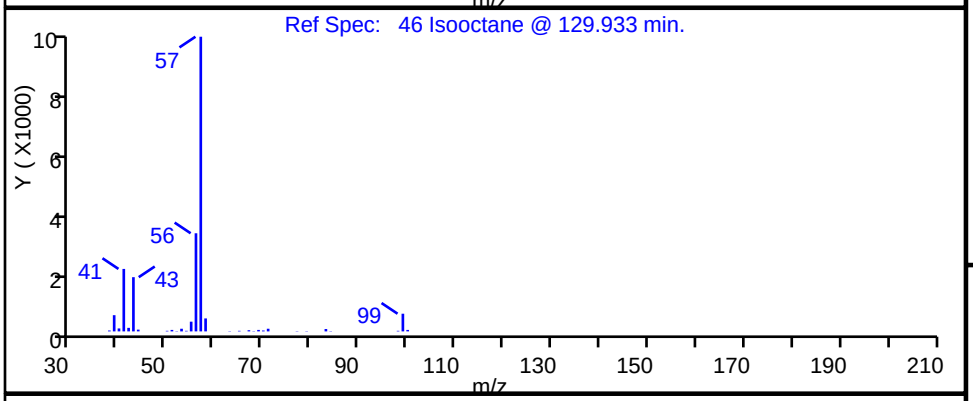
46 Isooctane, CAS: 540-84-1

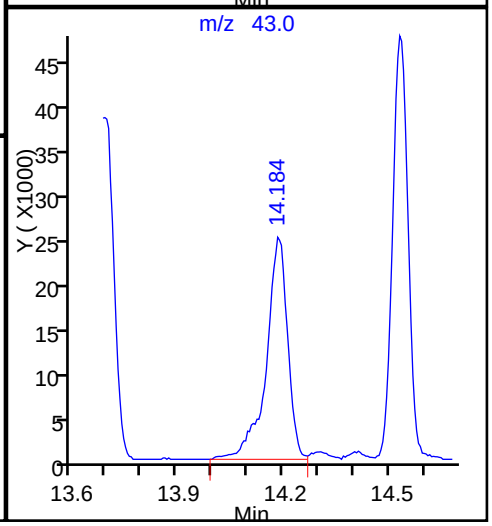


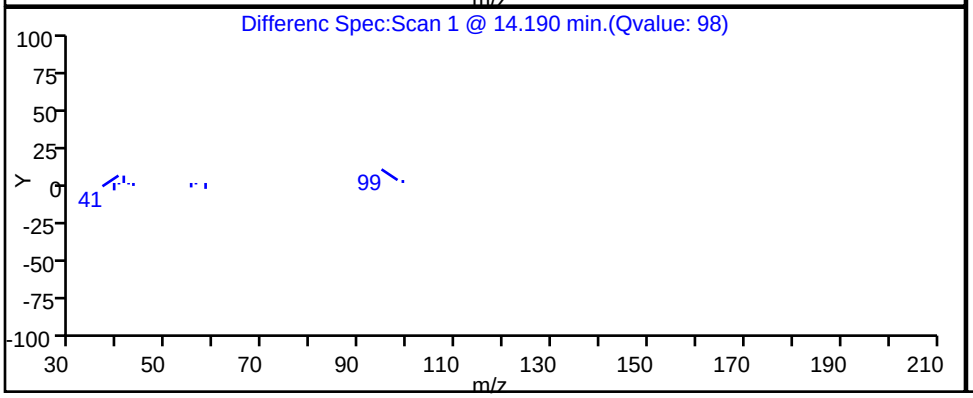










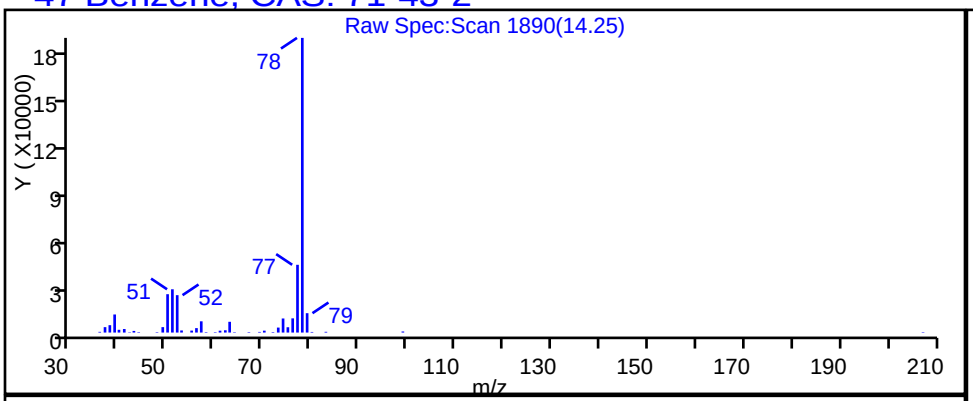


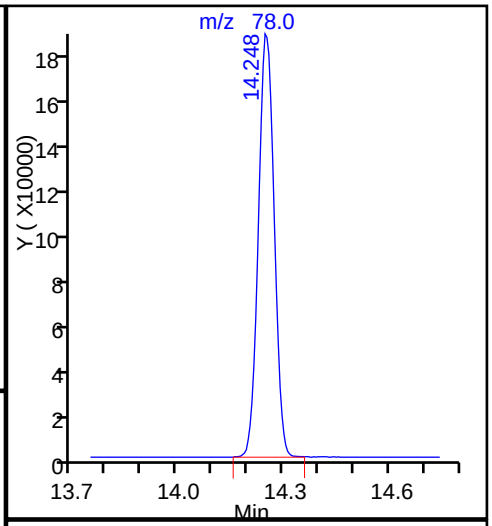
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

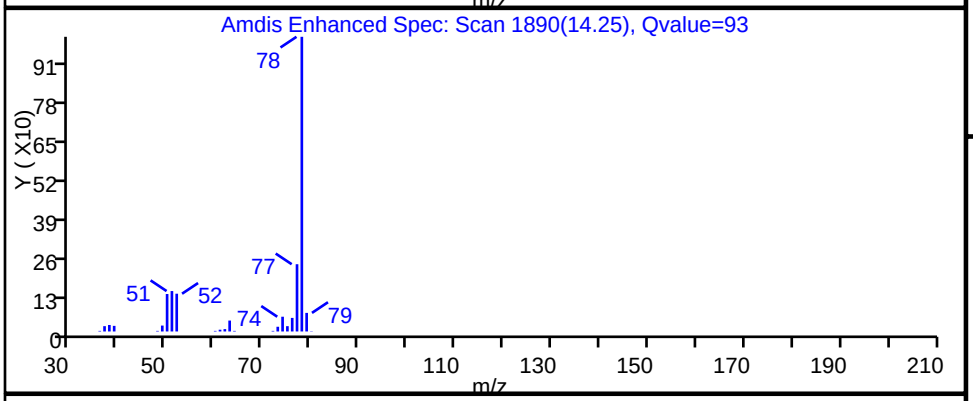
TestAmerica Burlington

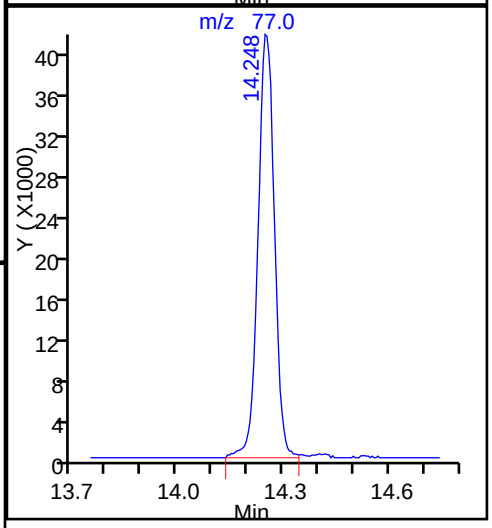
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

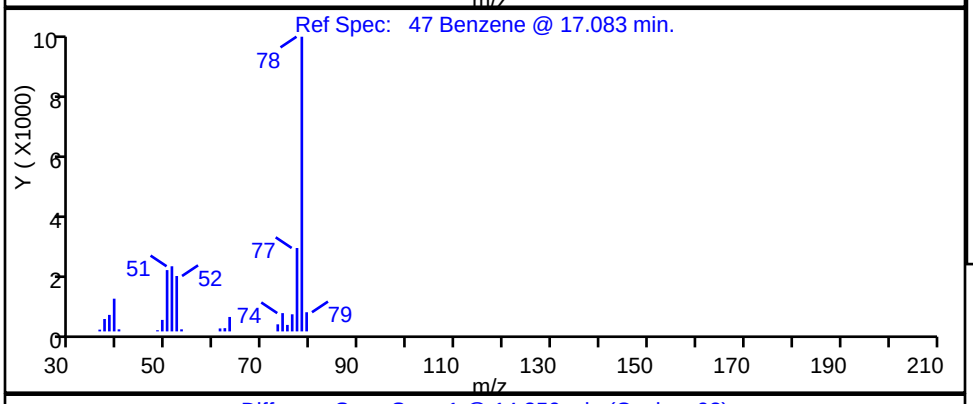
47 Benzene, CAS: 71-43-2

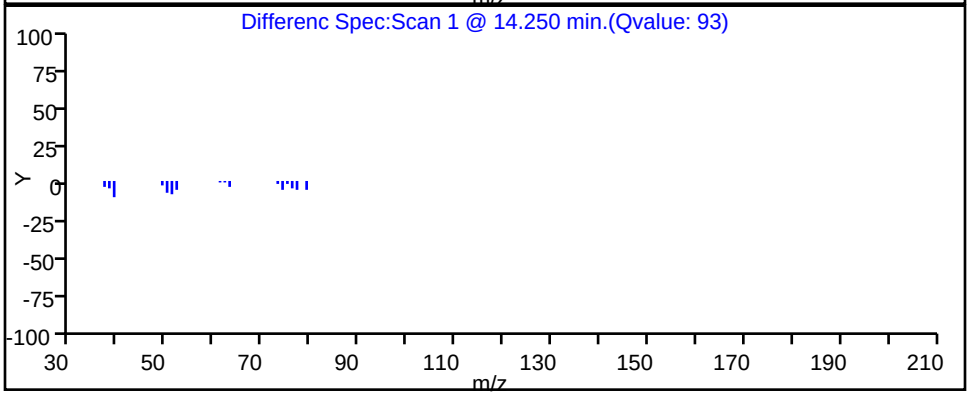












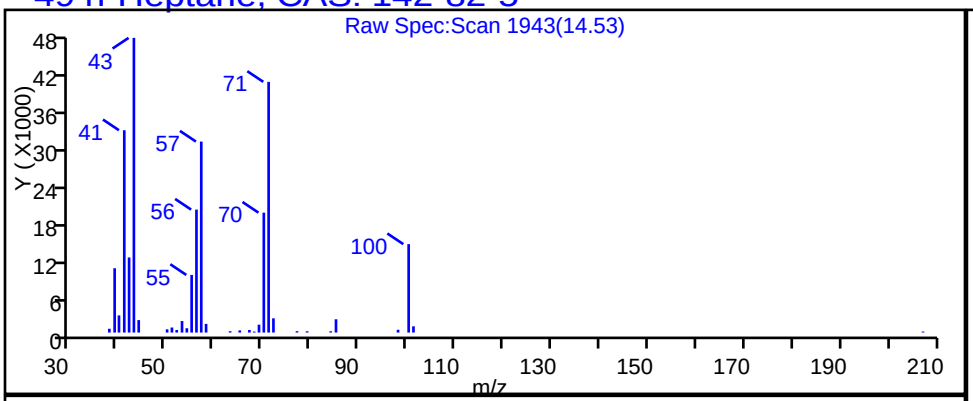
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

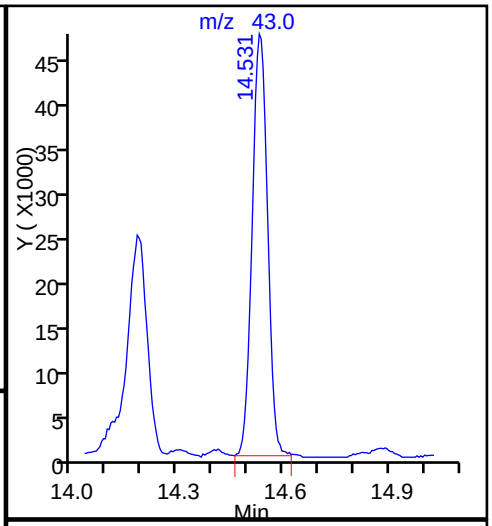
TestAmerica Burlington

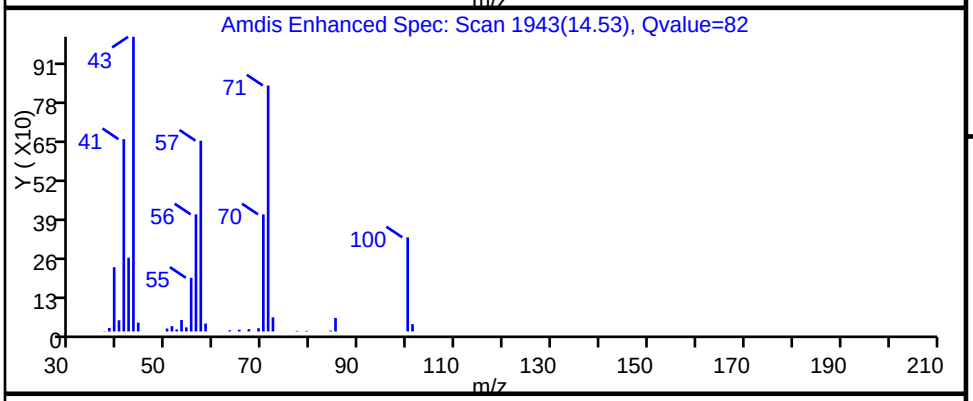
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

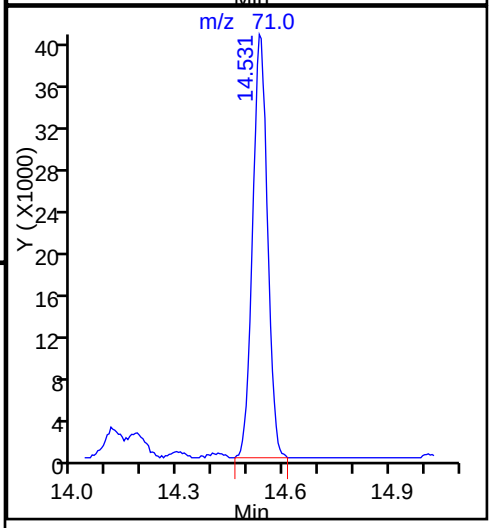
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

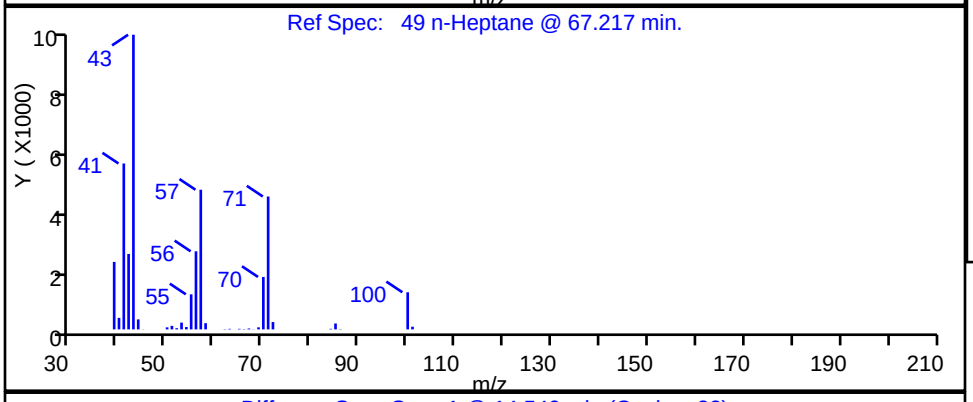
49 n-Heptane, CAS: 142-82-5

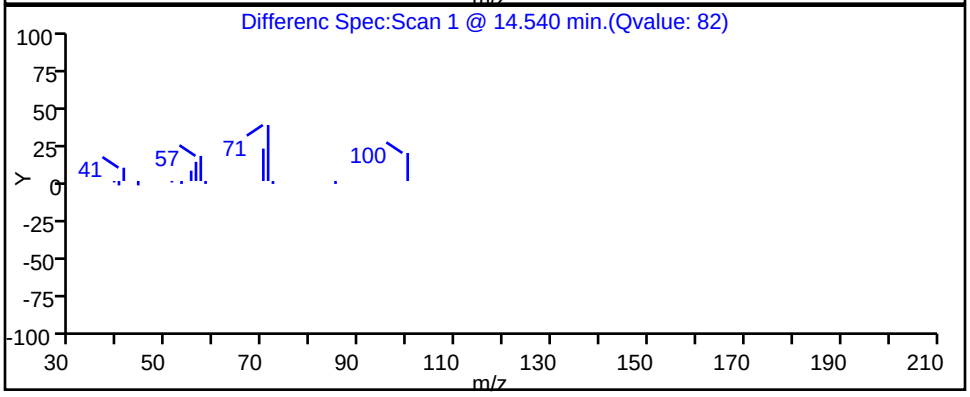












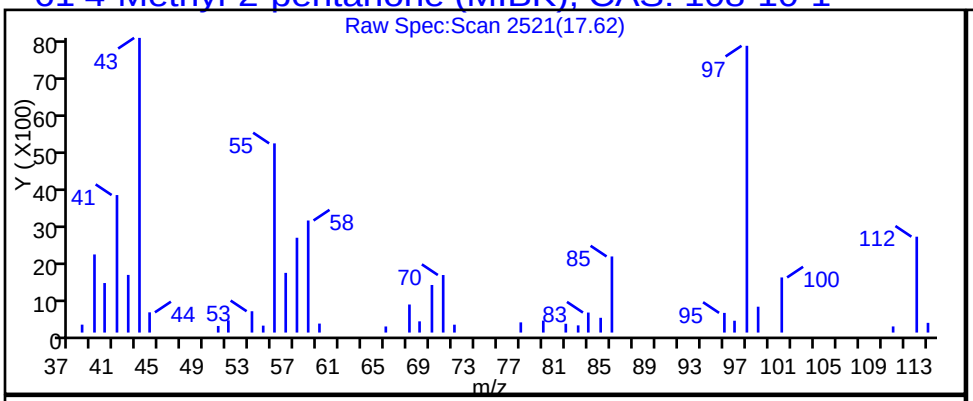
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

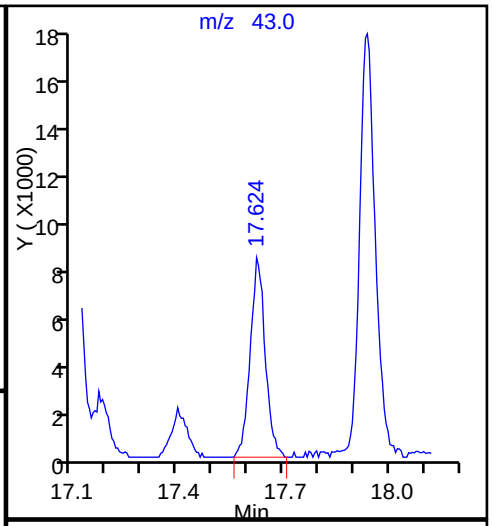
TestAmerica Burlington

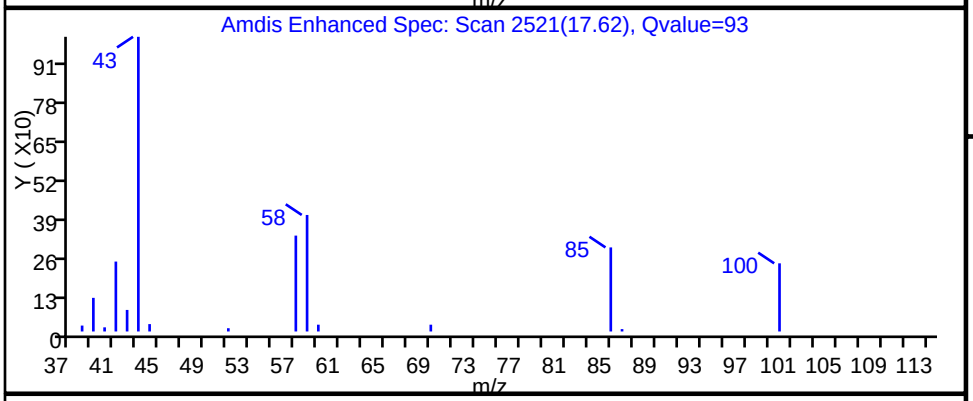
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

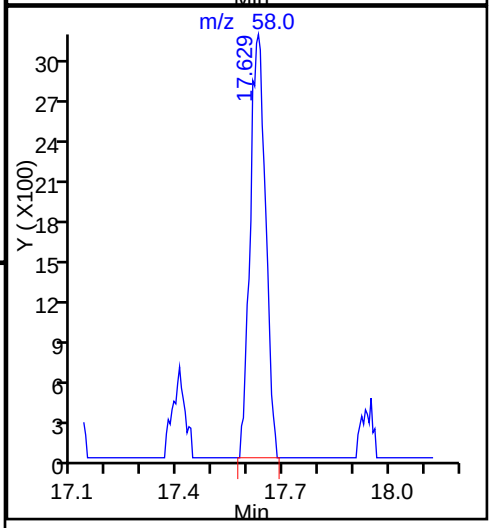
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

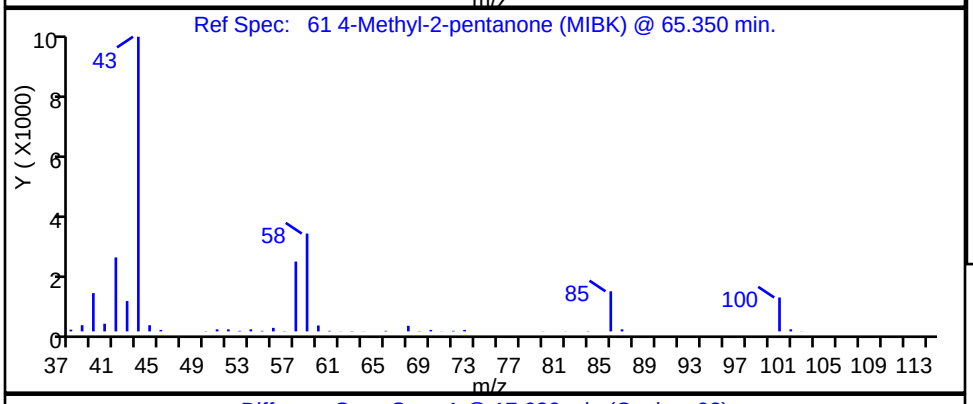
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

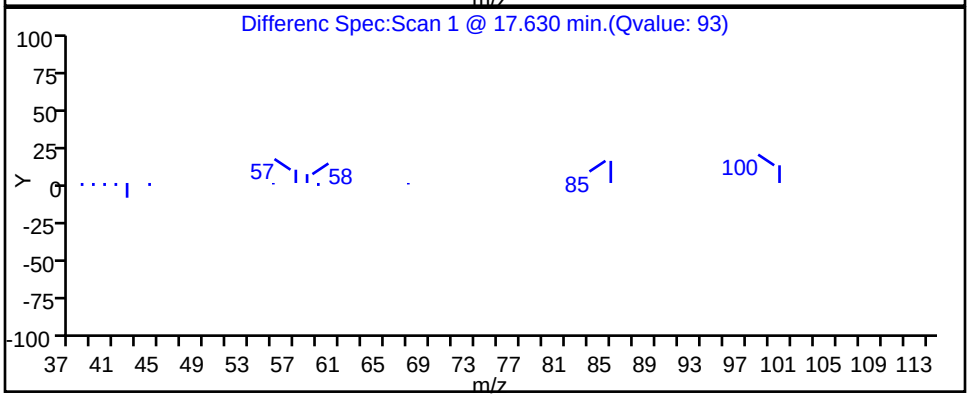












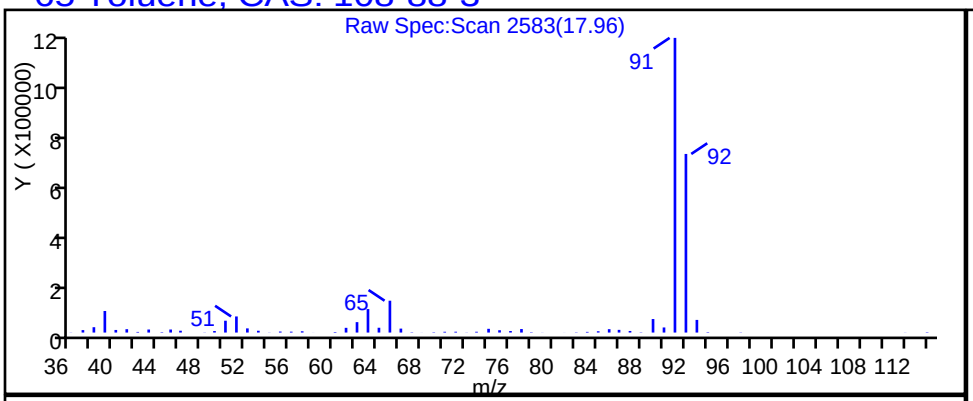
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

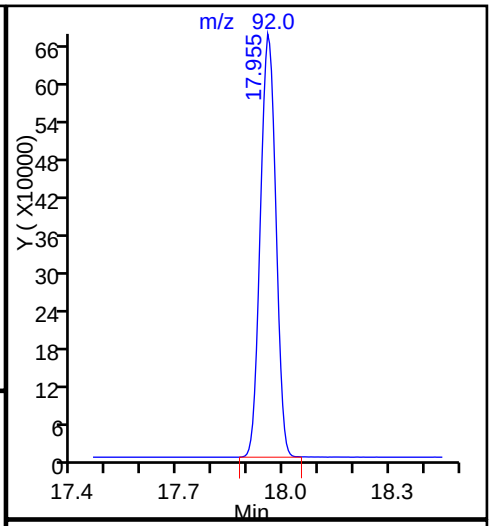
TestAmerica Burlington

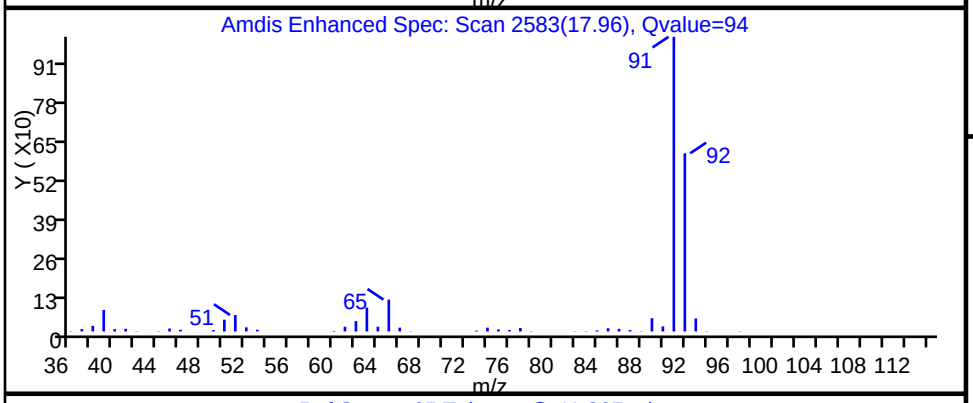
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

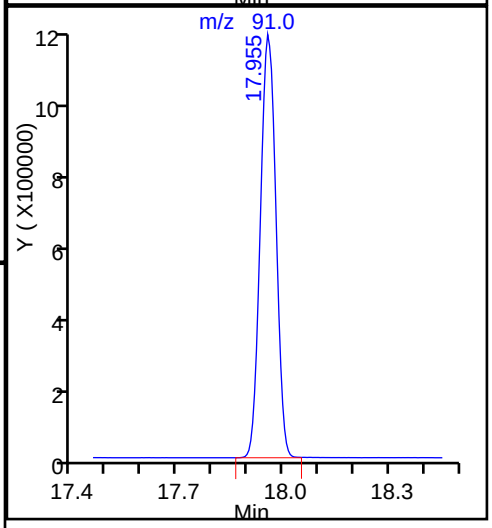
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

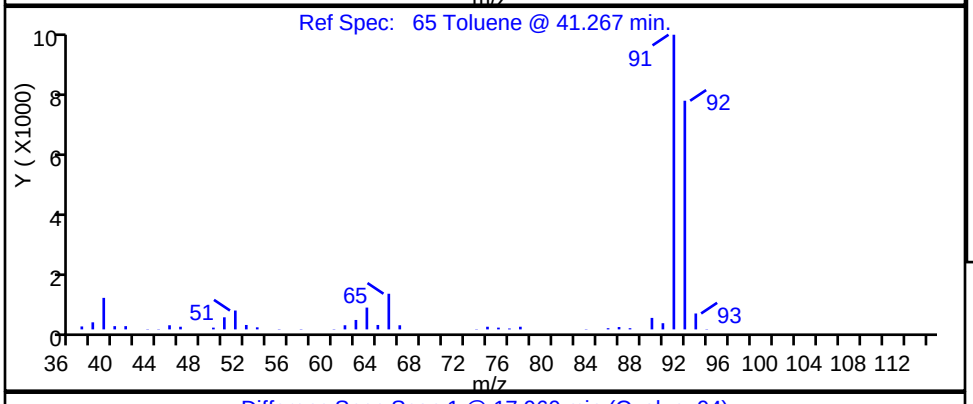
65 Toluene, CAS: 108-88-3

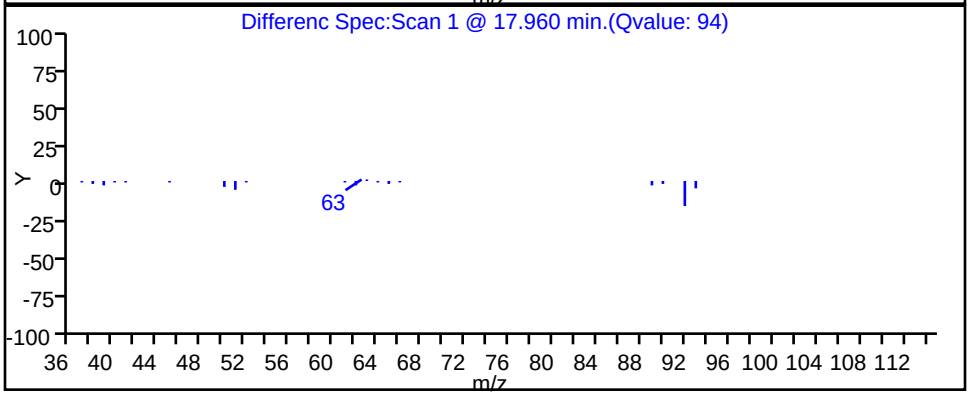












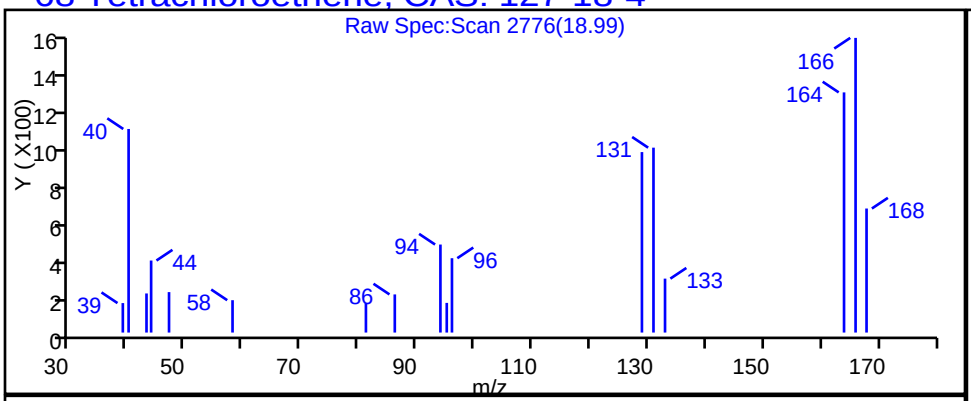
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

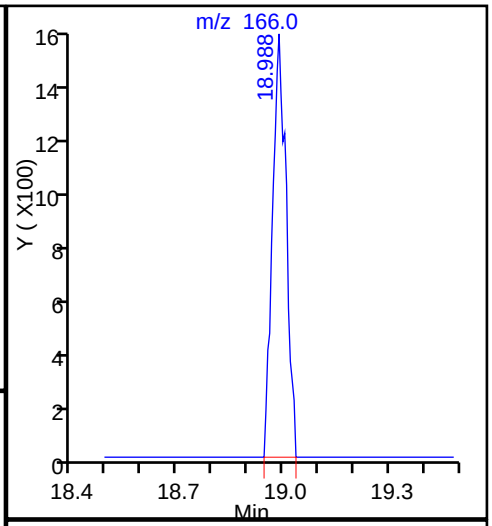
TestAmerica Burlington

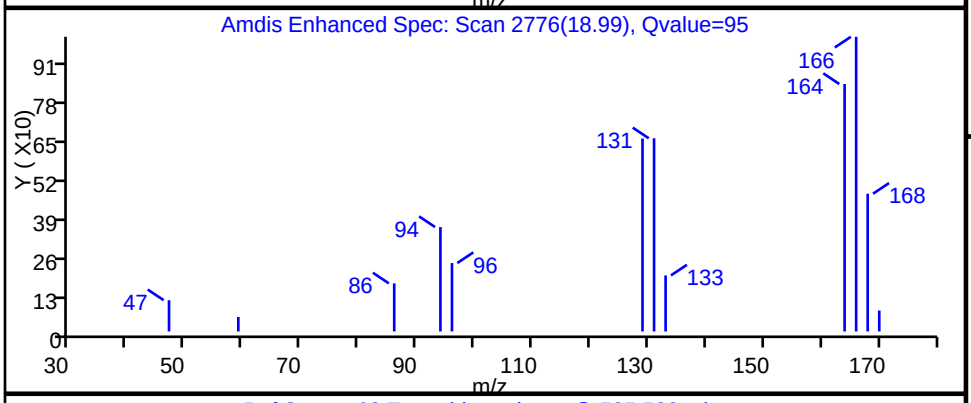
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

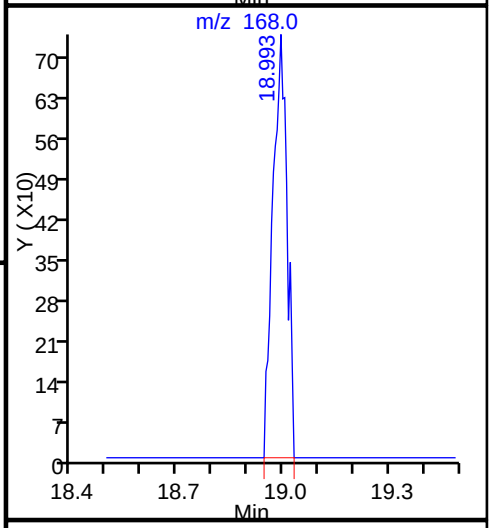
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

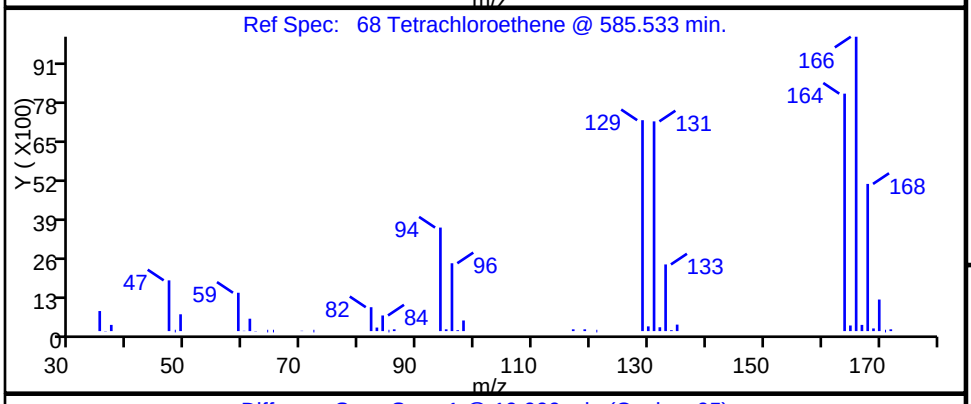
68 Tetrachloroethene, CAS: 127-18-4

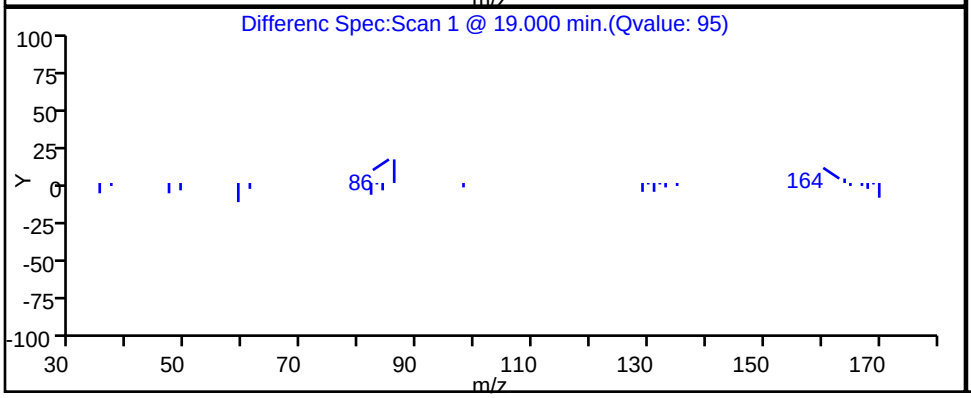


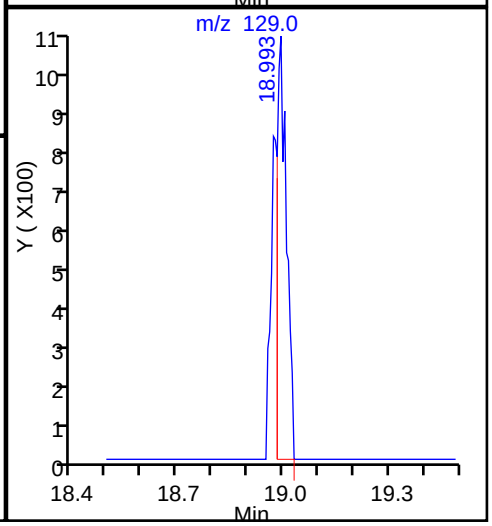










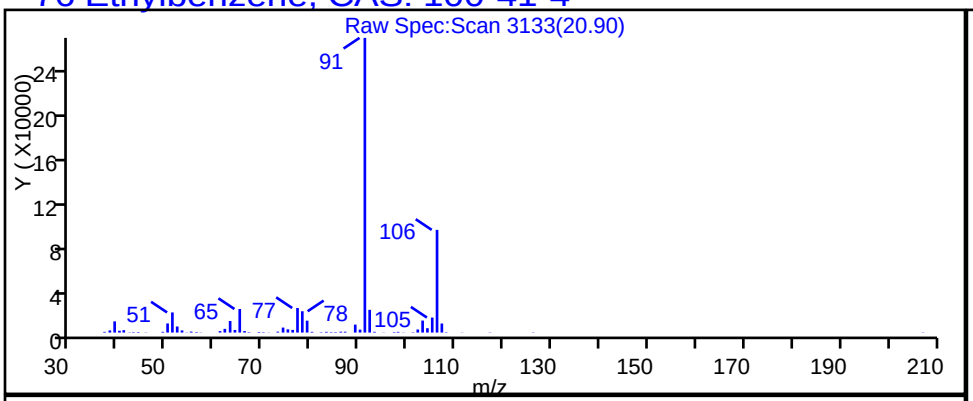


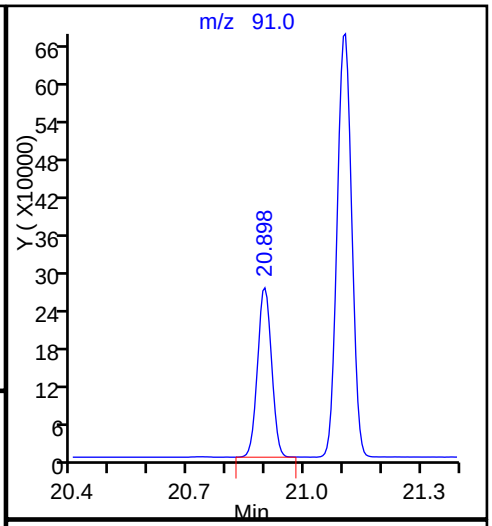
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

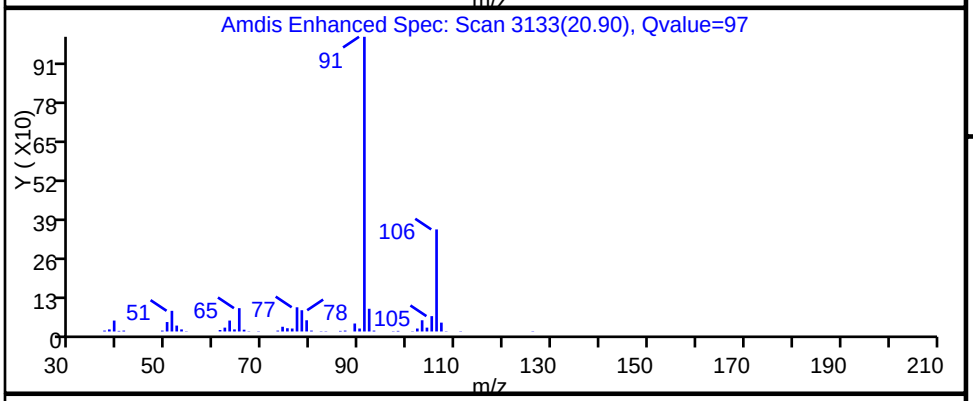
TestAmerica Burlington

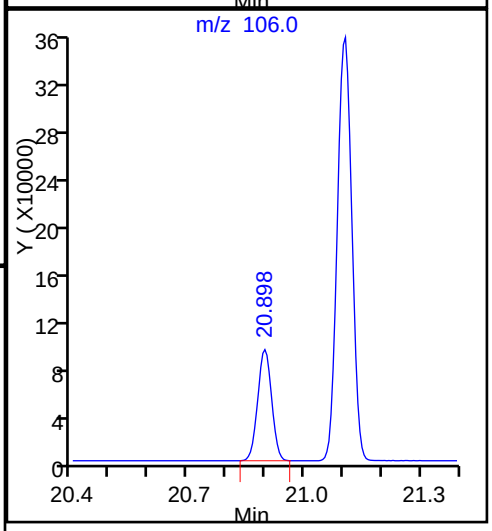
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d		
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

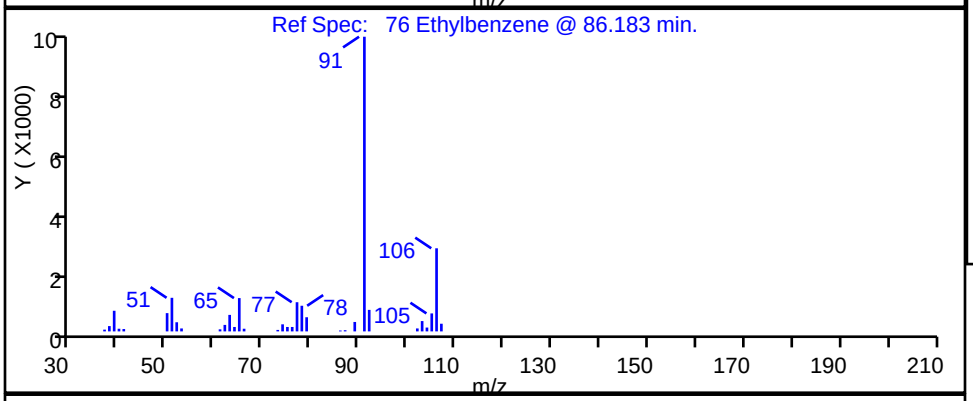
76 Ethylbenzene, CAS: 100-41-4

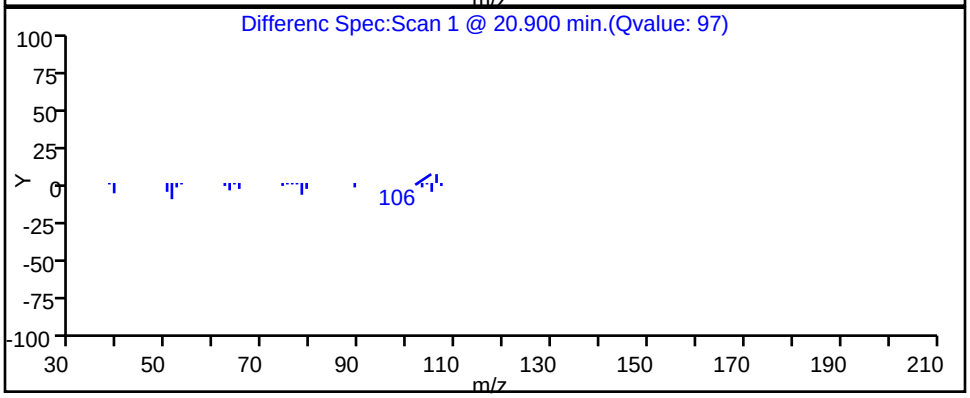










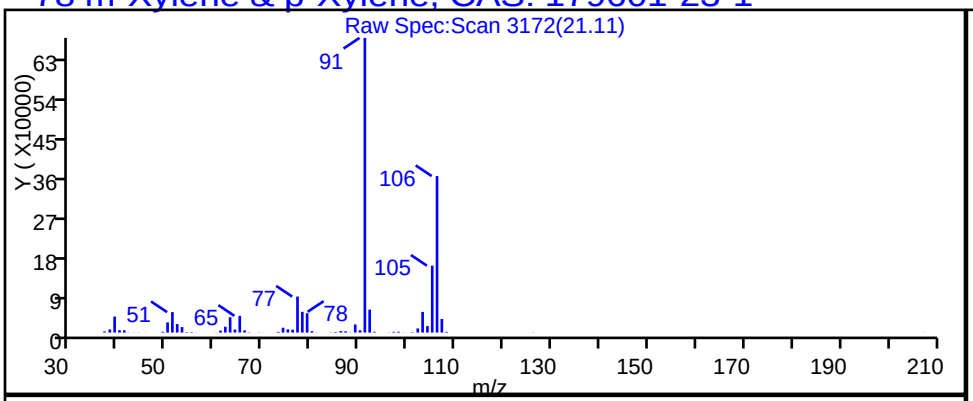


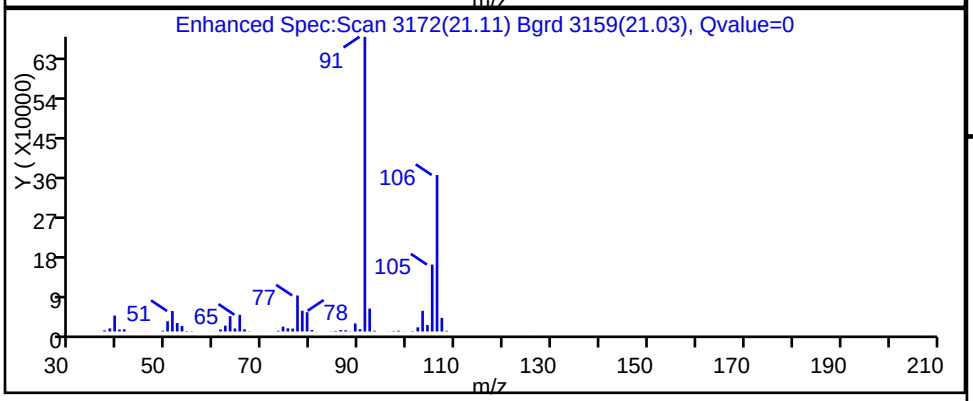
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

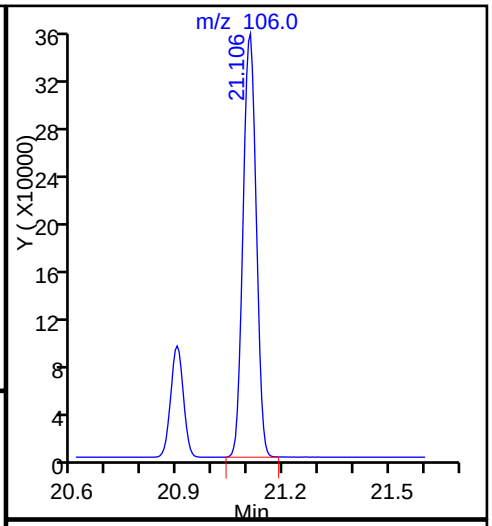
TestAmerica Burlington

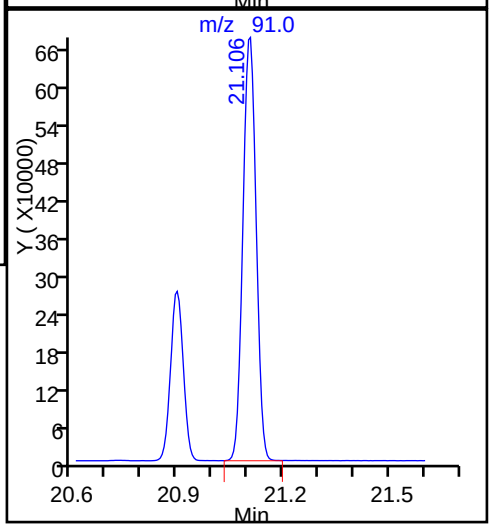
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









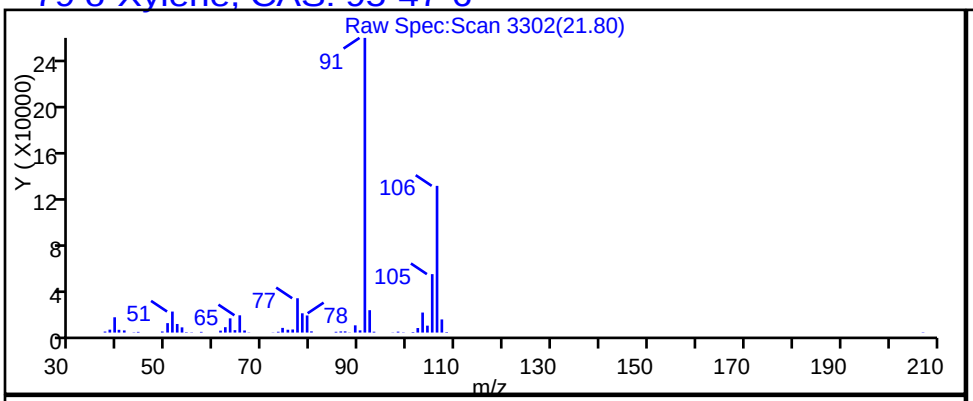
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

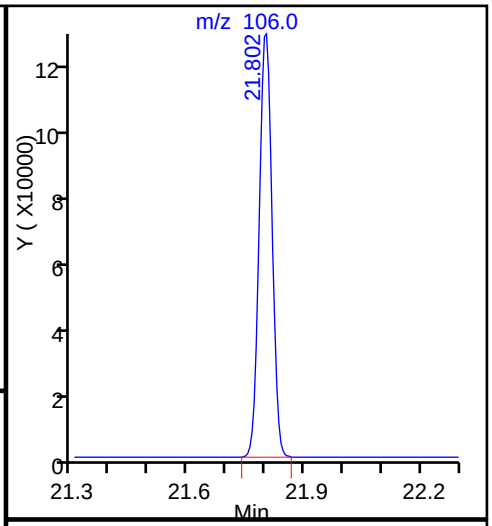
TestAmerica Burlington

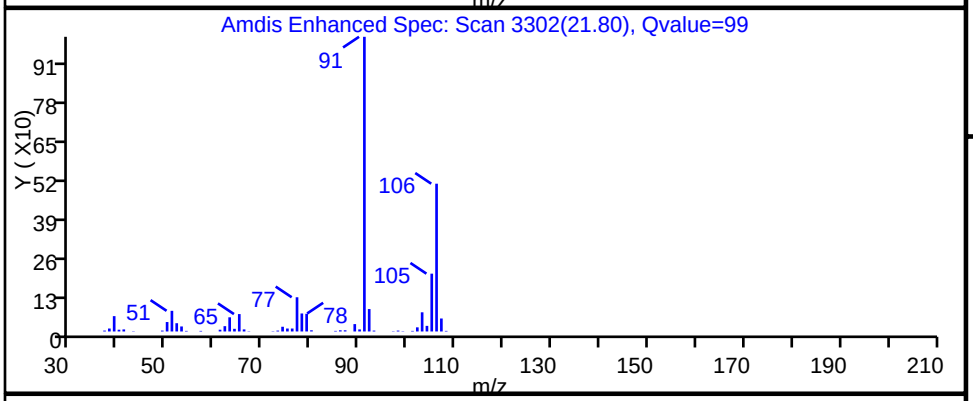
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

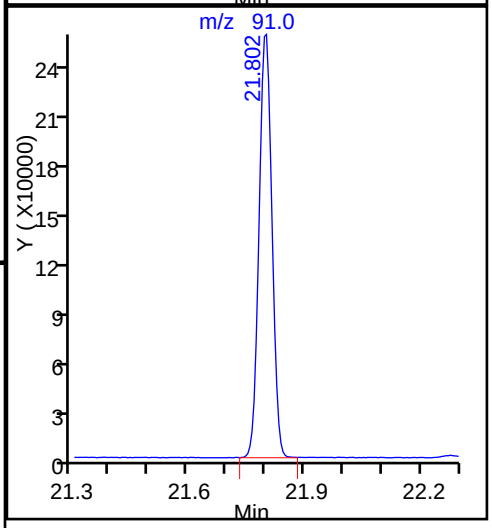
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

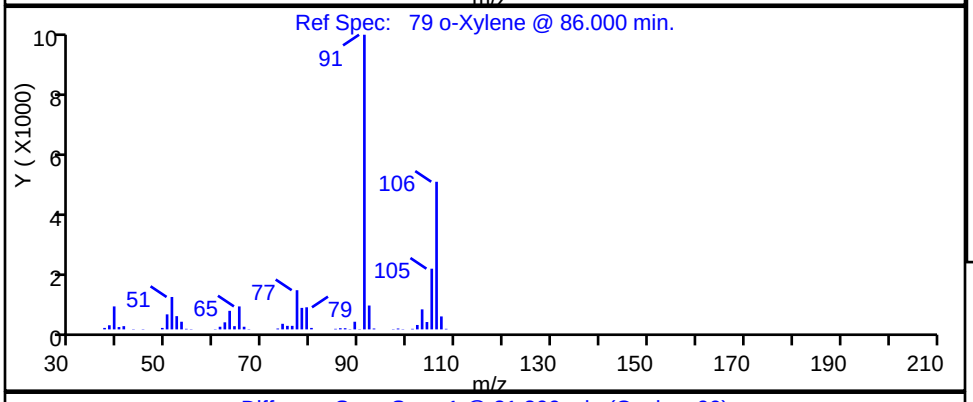
79 o-Xylene, CAS: 95-47-6

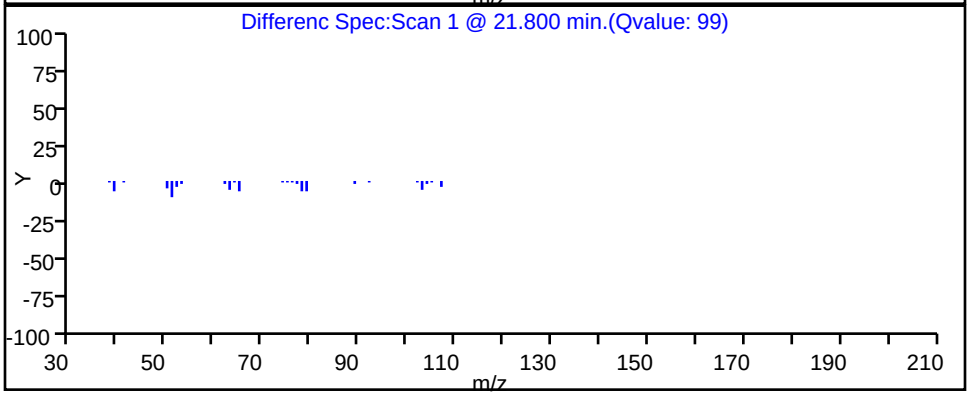












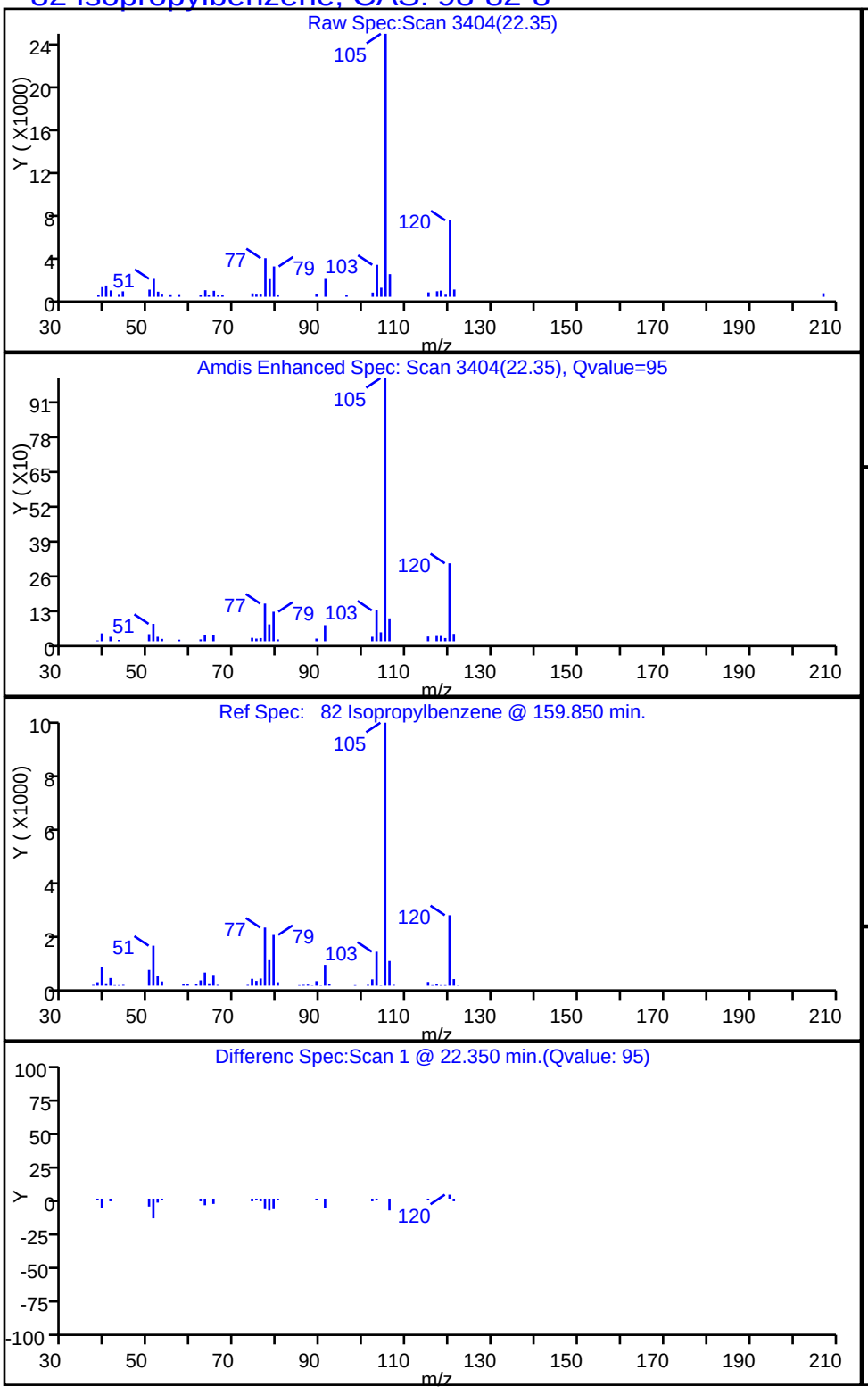
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

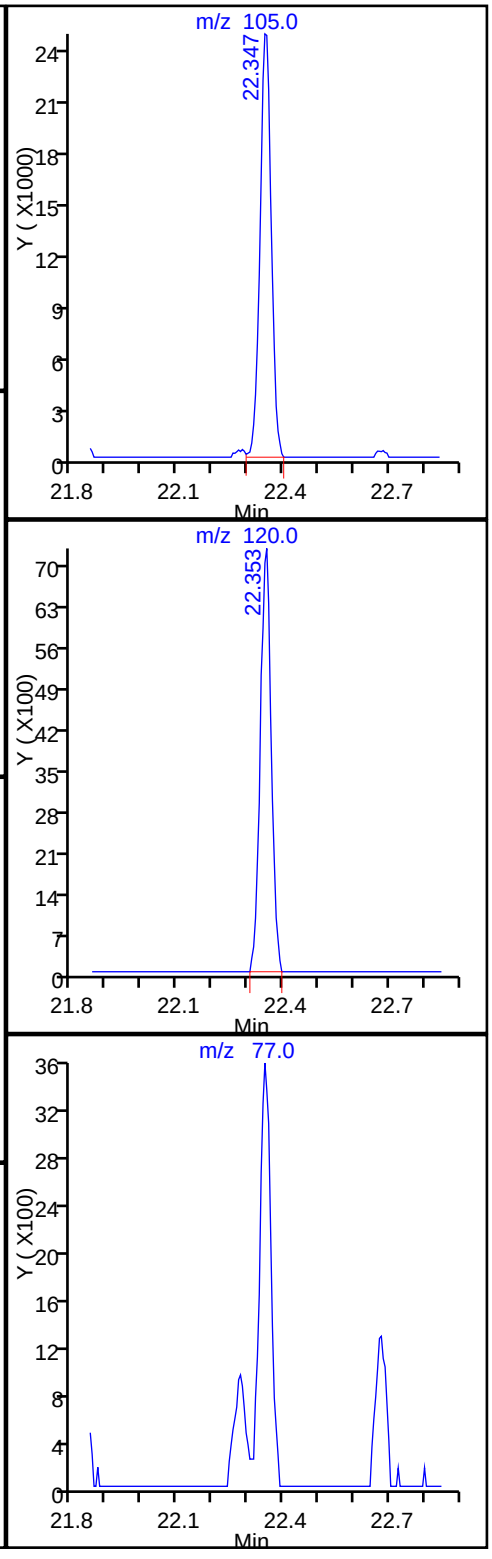
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

82 Isopropylbenzene, CAS: 98-82-8





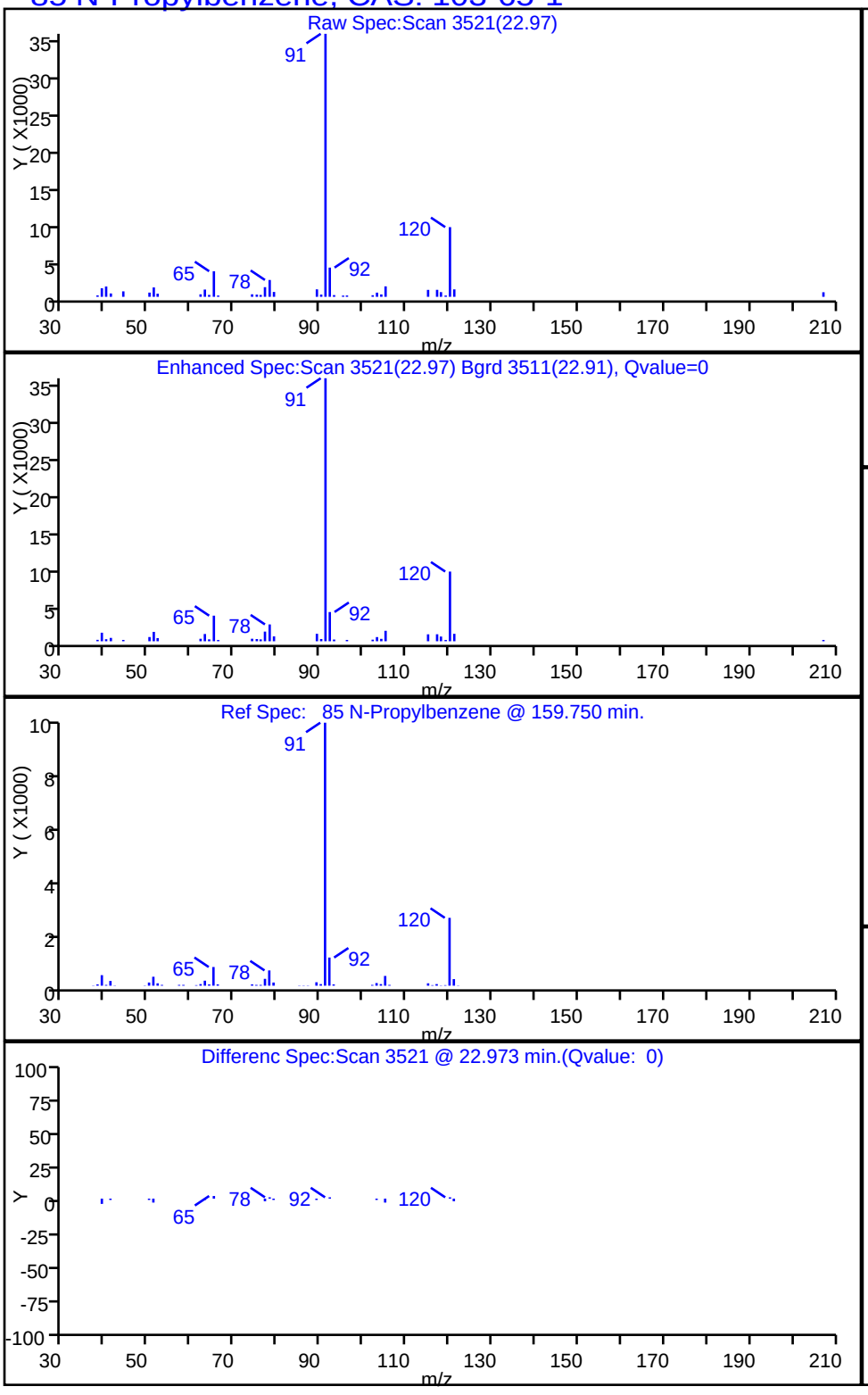
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

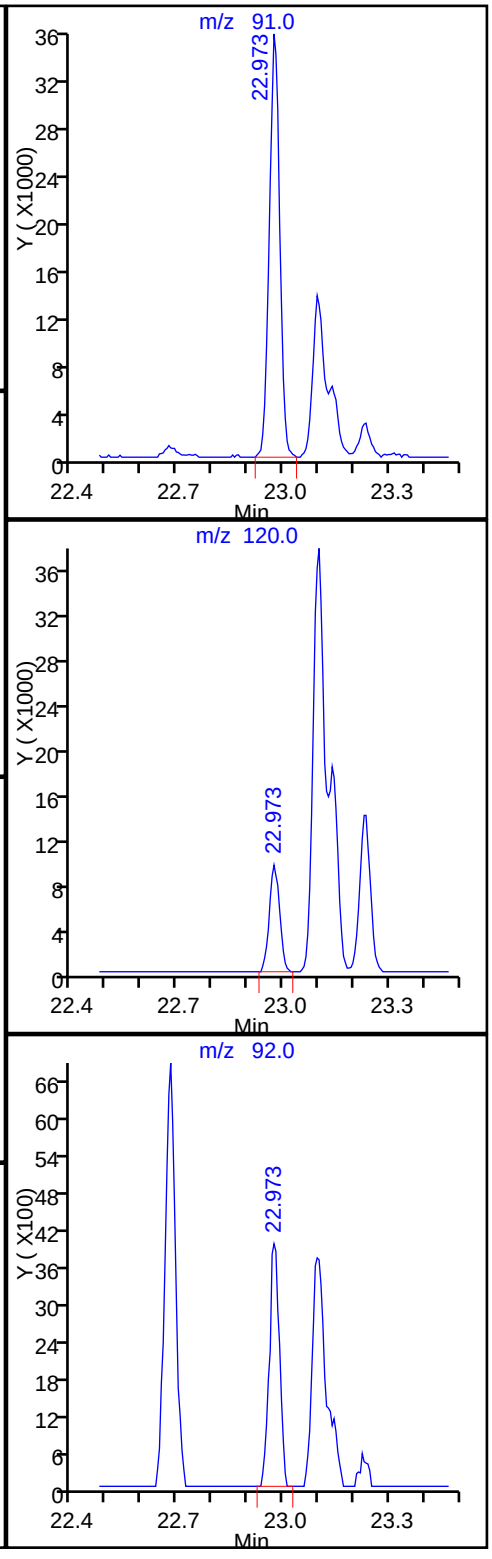
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1





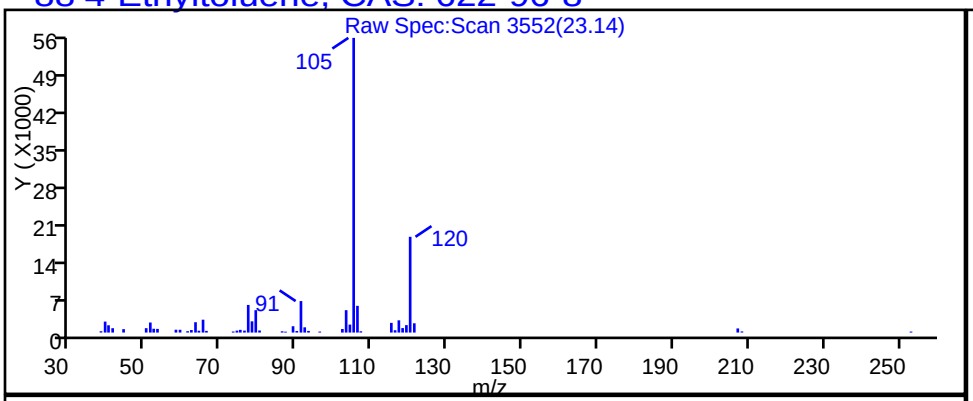
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

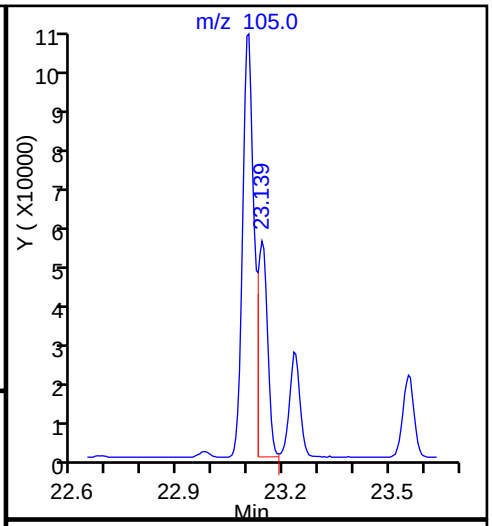
TestAmerica Burlington

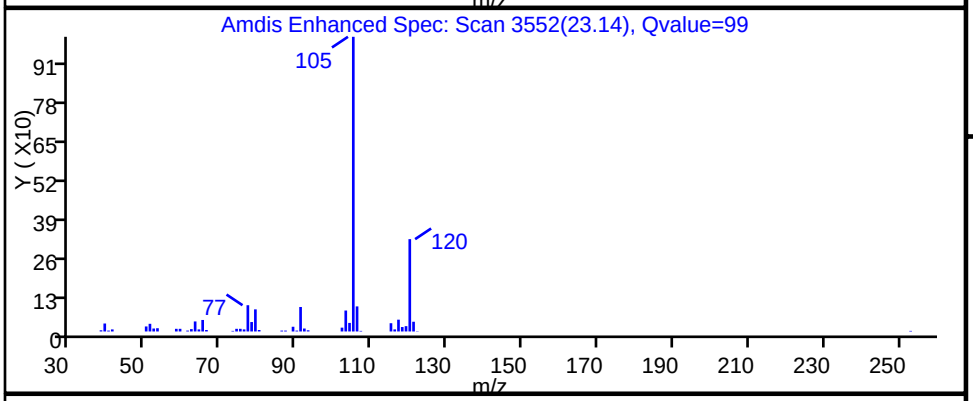
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d

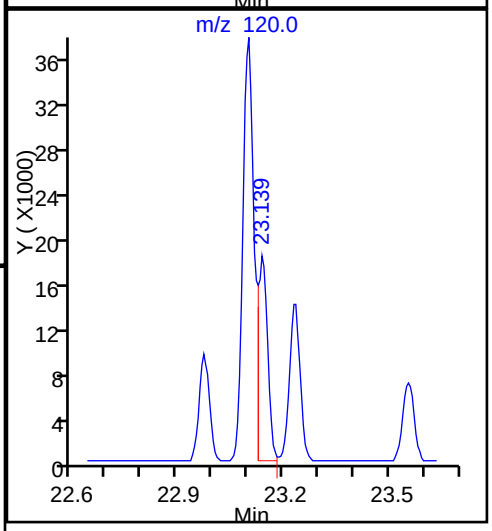
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2
Client ID:	FR-IA01-092315		
Operator ID:	pad	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

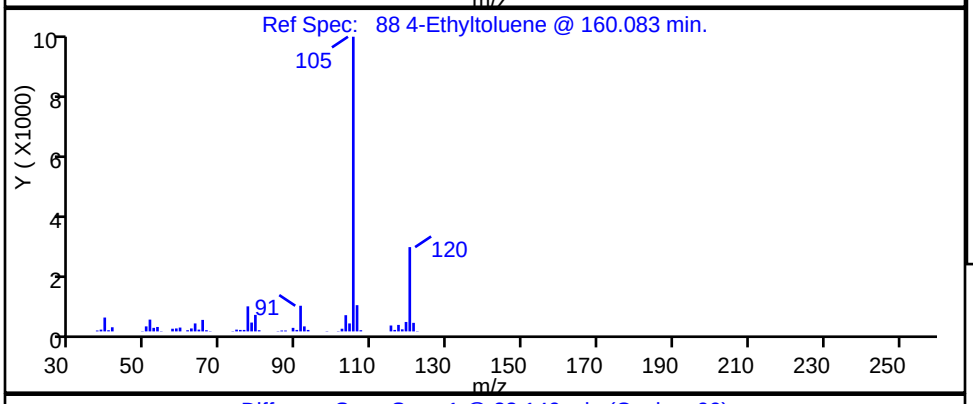
88 4-Ethyltoluene, CAS: 622-96-8

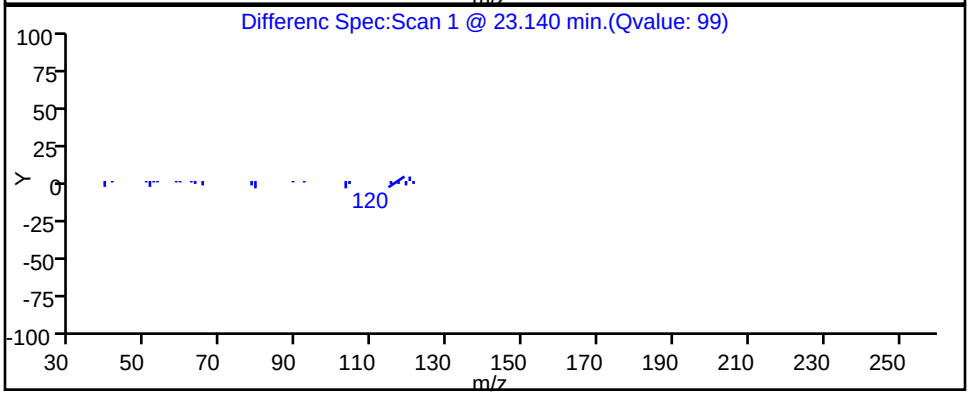










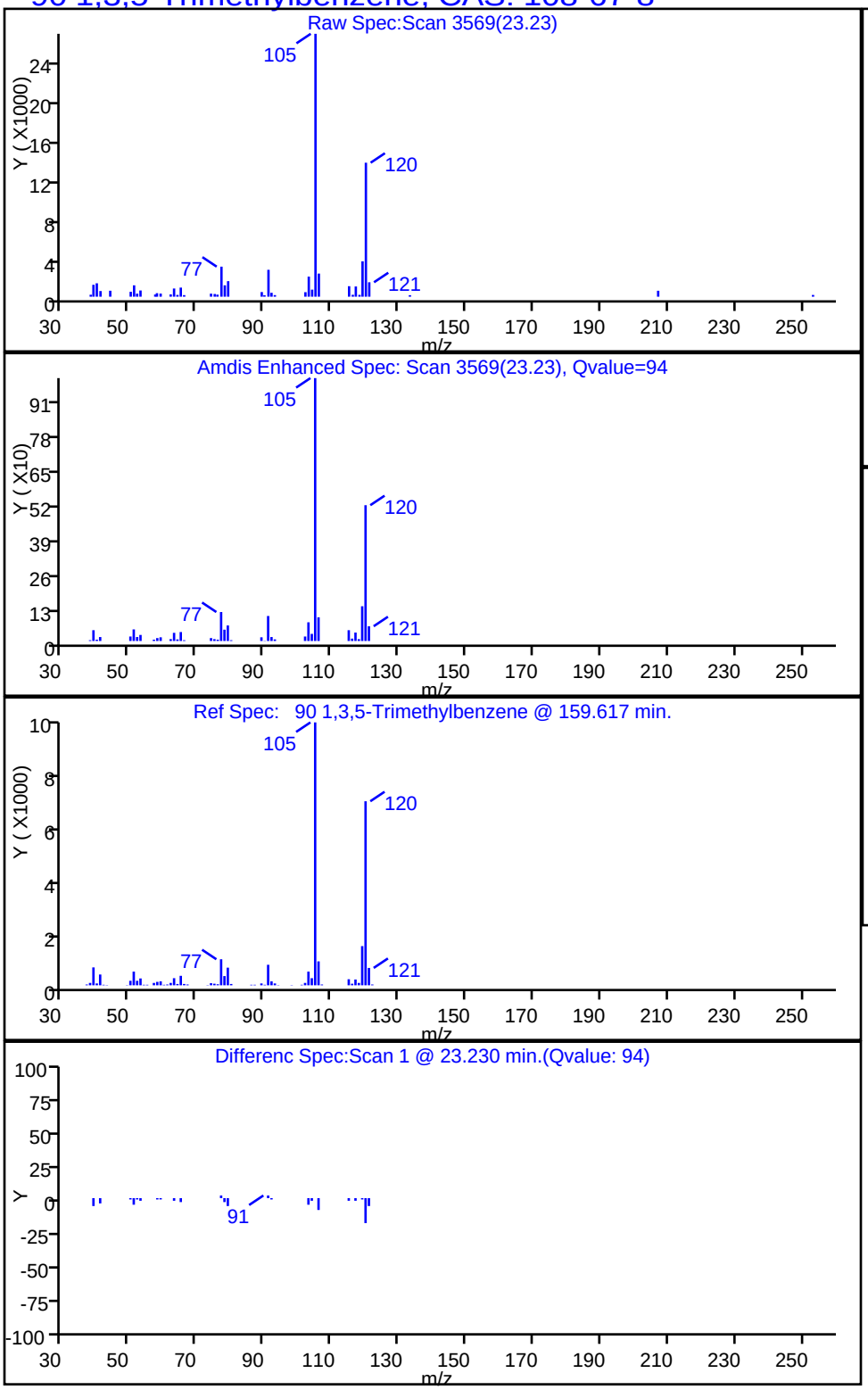


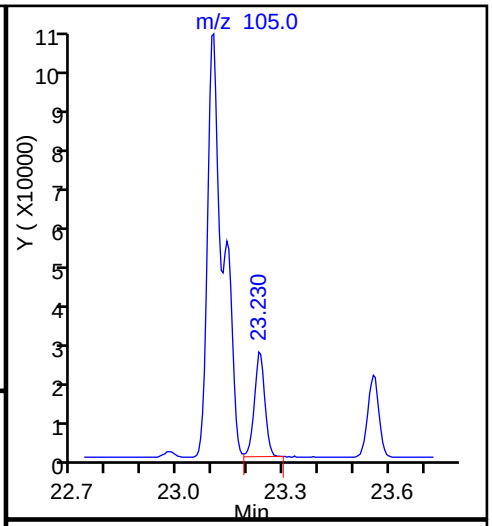
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

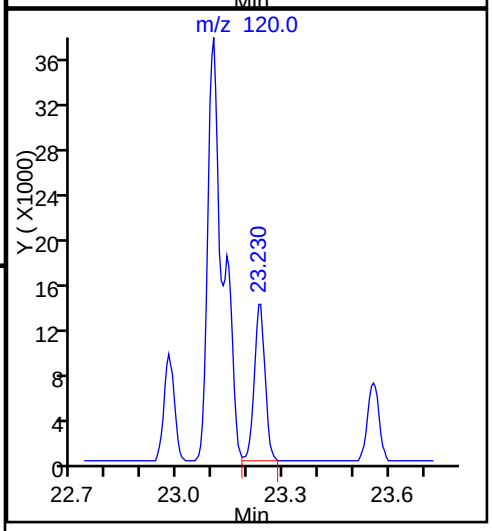
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8





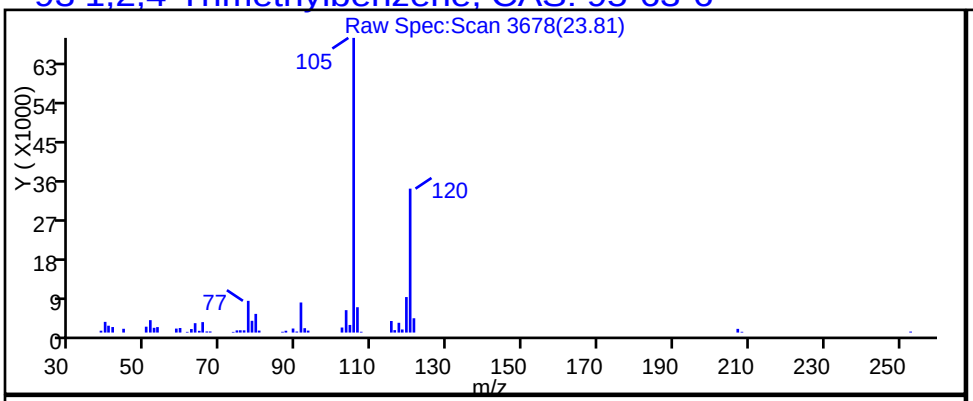


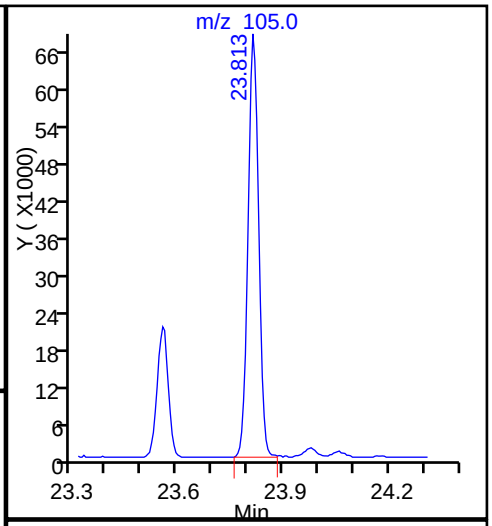
Report Date: 30-Sep-2015 14:16:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

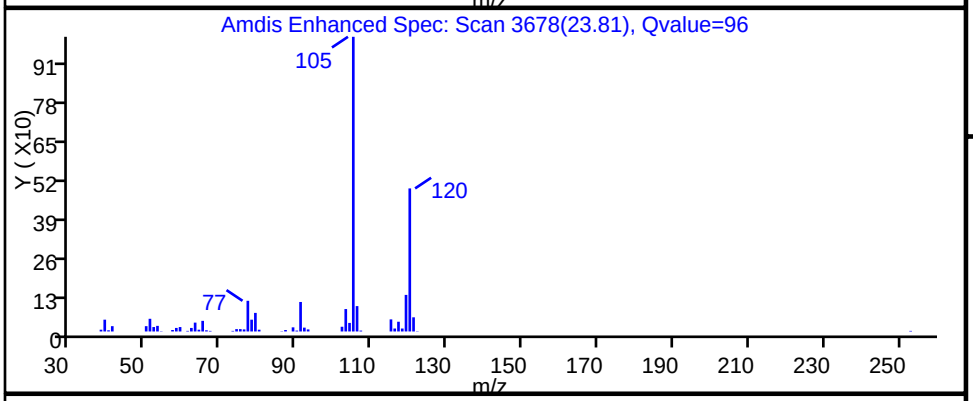
TestAmerica Burlington

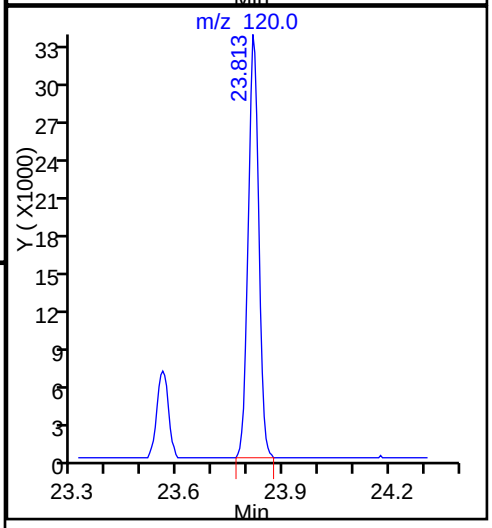
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

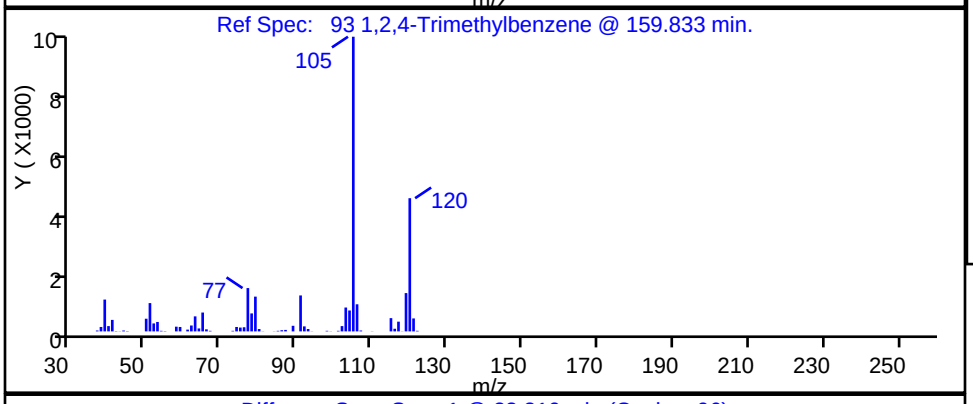
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

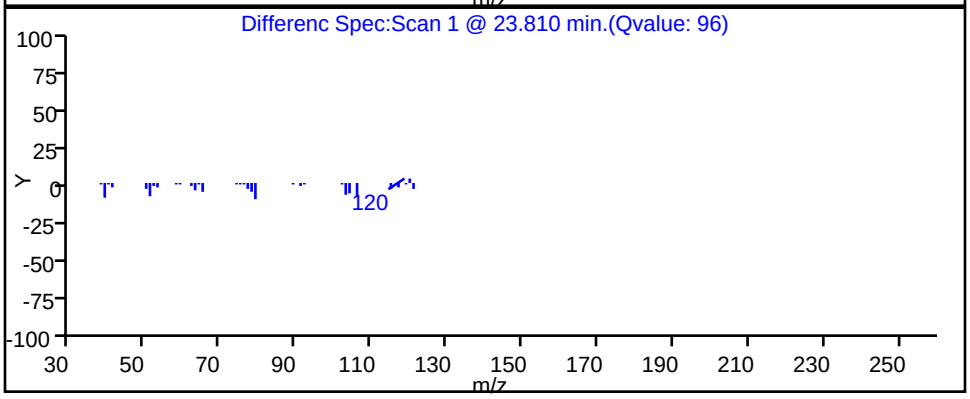












Manual Integration/User Assign Peak Report

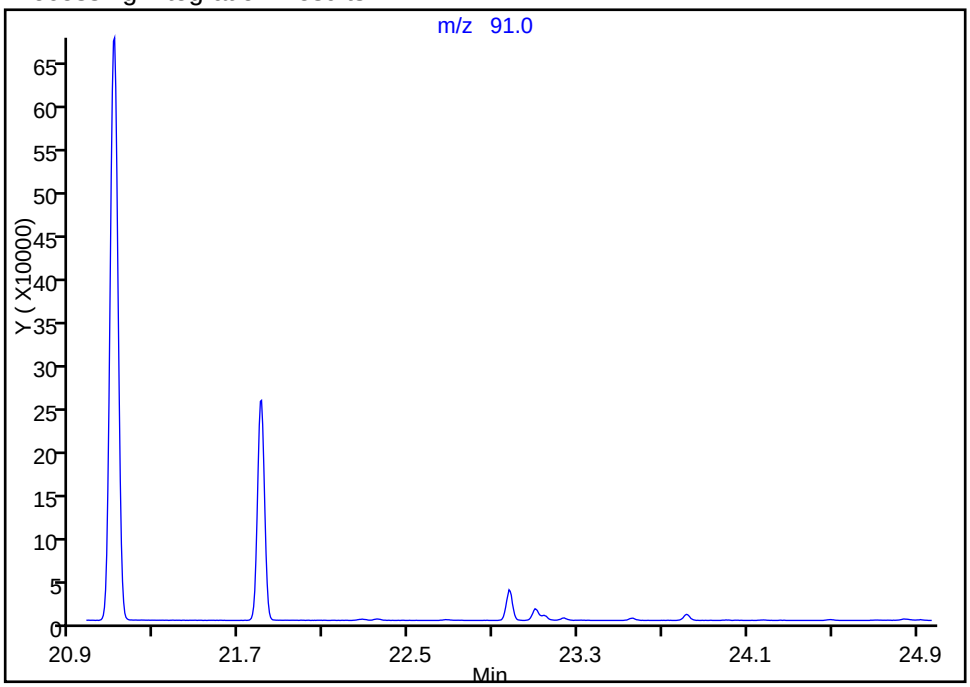
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1

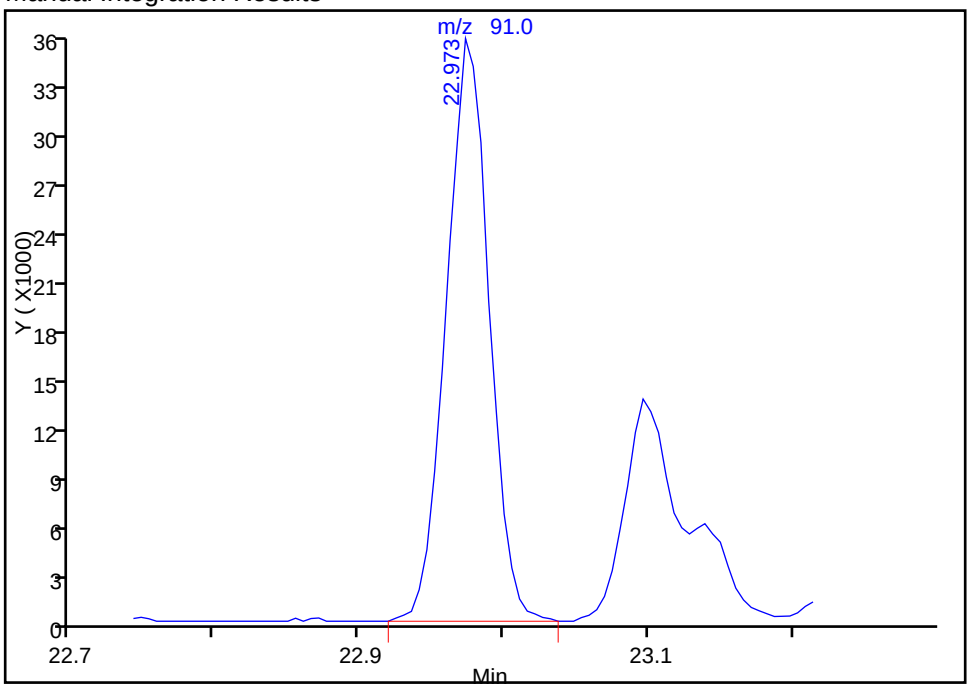
Processing Integration Results

Not Detected
Expected RT: 22.97



Manual Integration Results

RT: 22.97
Area: 72750
Amount: 0.532632
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:19:28
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

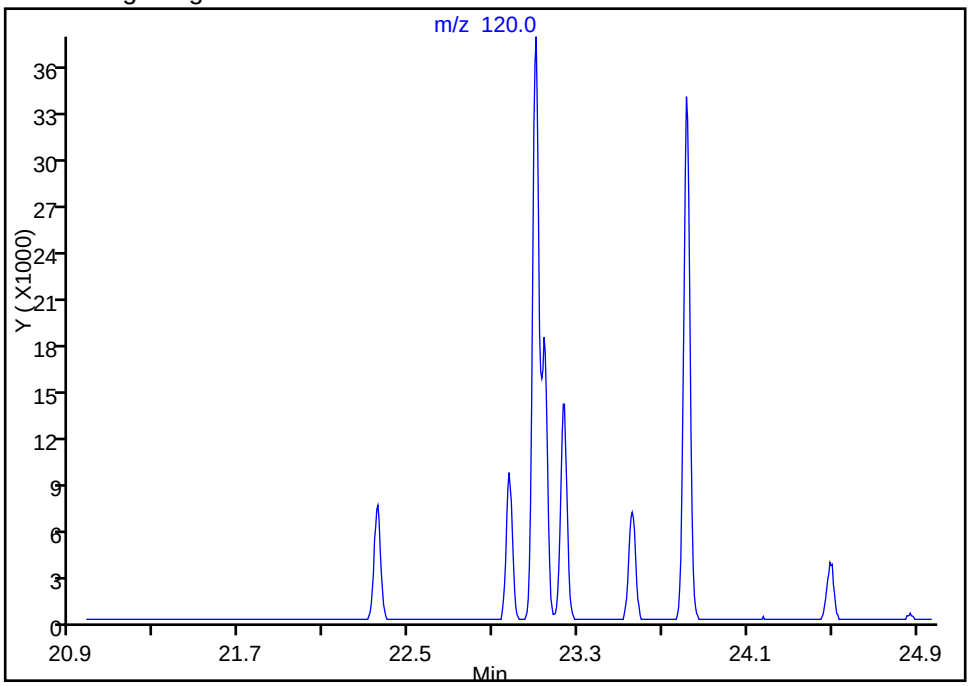
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1

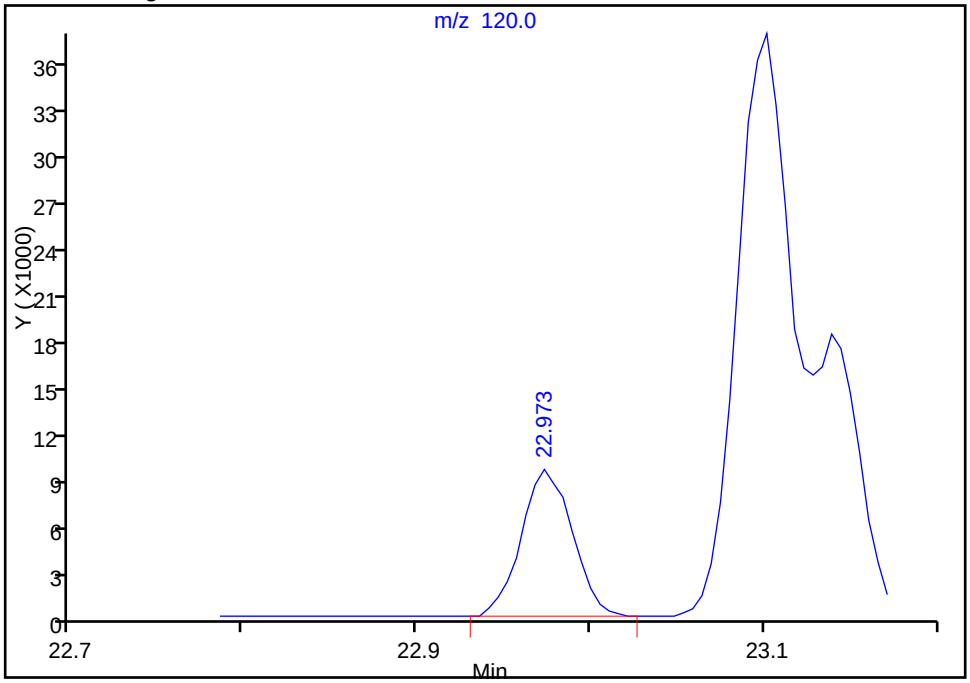
Processing Integration Results

Not Detected
Expected RT: 22.97



Manual Integration Results

RT: 22.97
Area: 19162
Amount: 0.532632
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:19:28
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

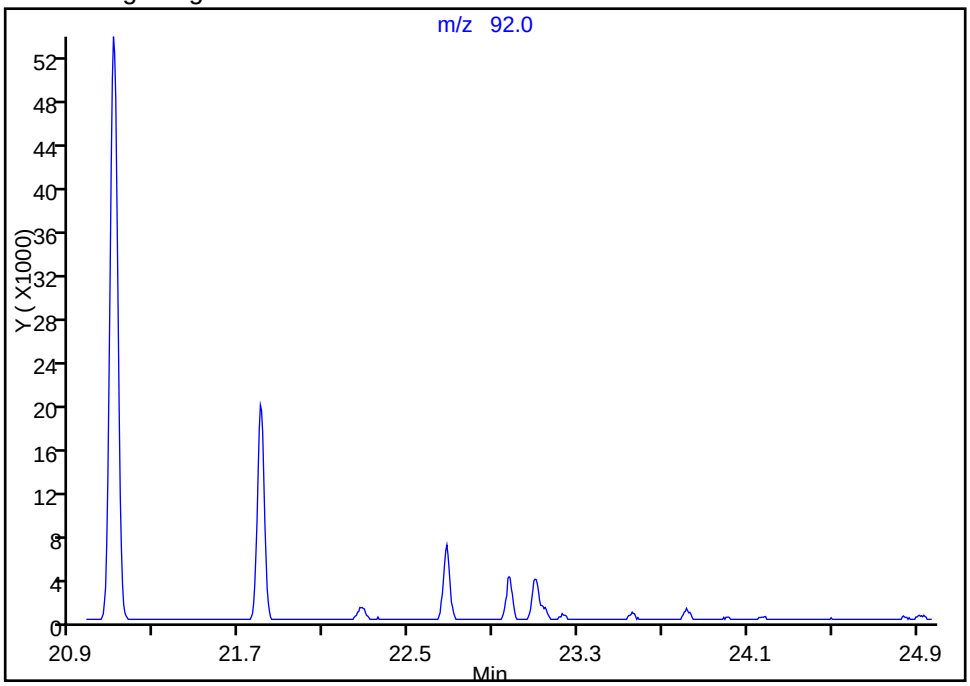
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_006.d				
Injection Date:	29-Sep-2015 14:37:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1

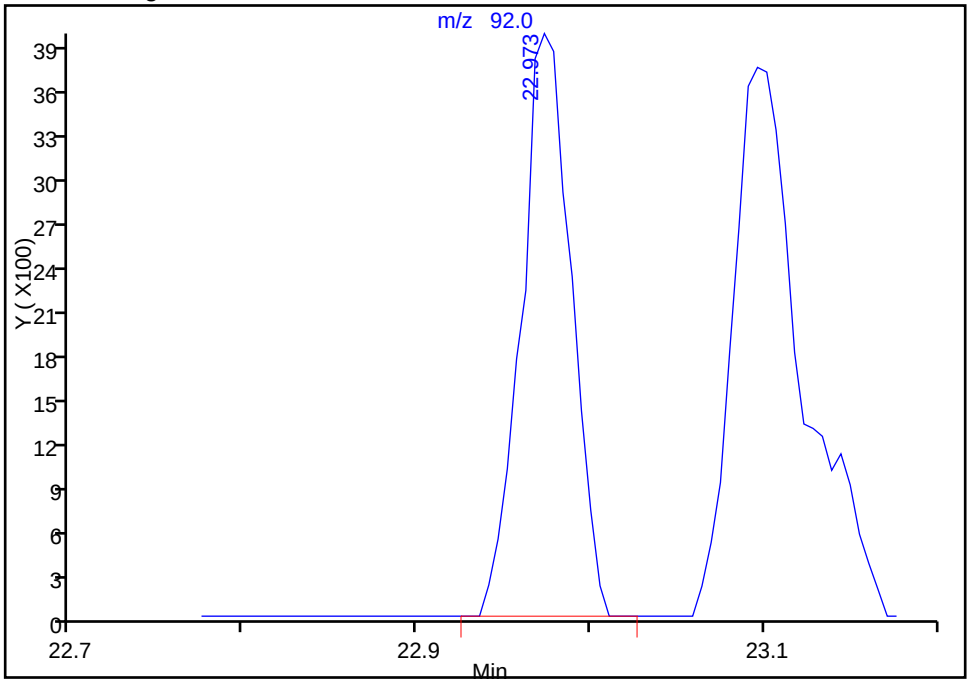
Processing Integration Results

Not Detected
Expected RT: 22.97



Manual Integration Results

RT: 22.97
Area: 7885
Amount: 0.532632
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:19:28
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 DL | Lab Sample ID: 200-29972-2 DL

Matrix: Air | Lab File ID: 15991_024.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 05:30

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.69	J D	1.5	0.24
75-45-6	Freon 22	86.47	0.43	J D	1.5	0.17
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.60	U	0.60	0.11
74-87-3	Chloromethane	50.49	0.74	J D	1.5	0.28
106-97-8	n-Butane	58.12	94	D	1.5	0.23
75-01-4	Vinyl chloride	62.50	0.12	U	0.12	0.096
106-99-0	1,3-Butadiene	54.09	0.60	U	0.60	0.27
74-83-9	Bromomethane	94.94	0.60	U	0.60	0.17
75-00-3	Chloroethane	64.52	1.5	U	1.5	0.25
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.60	U	0.60	0.13
75-69-4	Trichlorofluoromethane	137.37	0.36	J D	0.60	0.11
76-13-1	Freon TF	187.38	0.60	U	0.60	0.22
75-35-4	1,1-Dichloroethene	96.94	0.60	U	0.60	0.11
67-64-1	Acetone	58.08	10	J D	15	2.6
67-63-0	Isopropyl alcohol	60.10	15	U	15	2.9
75-15-0	Carbon disulfide	76.14	1.5	U	1.5	0.13
107-05-1	3-Chloropropene	76.53	1.5	U	1.5	0.20
75-09-2	Methylene Chloride	84.93	1.5	U	1.5	0.54
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.5
1634-04-4	Methyl tert-butyl ether	88.15	0.60	U	0.60	0.27
156-60-5	trans-1,2-Dichloroethene	96.94	0.60	U	0.60	0.13
110-54-3	n-Hexane	86.17	37	D	0.60	0.16
75-34-3	1,1-Dichloroethane	98.96	0.60	U	0.60	0.075
78-93-3	Methyl Ethyl Ketone	72.11	1.4	J D	1.5	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	0.60	U	0.60	0.10
540-59-0	1,2-Dichloroethene, Total	96.94	1.2	U	1.2	0.10
67-66-3	Chloroform	119.38	0.60	U	0.60	0.25
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.2
71-55-6	1,1,1-Trichloroethane	133.41	0.60	U	0.60	0.14
110-82-7	Cyclohexane	84.16	5.3	D	0.60	0.12
56-23-5	Carbon tetrachloride	153.81	0.12	U	0.12	0.096
540-84-1	2,2,4-Trimethylpentane	114.23	11	D	0.60	0.12
71-43-2	Benzene	78.11	13	D	0.60	0.13
107-06-2	1,2-Dichloroethane	98.96	0.60	U	0.60	0.12

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 DL | Lab Sample ID: 200-29972-2 DL

Matrix: Air | Lab File ID: 15991_024.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 05:30

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	8.6	D	0.60	0.12
79-01-6	Trichloroethene	131.39	0.12	U	0.12	0.12
80-62-6	Methyl methacrylate	100.12	1.5	U	1.5	0.12
78-87-5	1,2-Dichloropropane	112.99	0.60	U	0.60	0.081
123-91-1	1,4-Dioxane	88.11	15	U	15	1.7
75-27-4	Bromodichloromethane	163.83	0.60	U	0.60	0.090
10061-01-5	cis-1,3-Dichloropropene	110.97	0.60	U	0.60	0.069
108-10-1	methyl isobutyl ketone	100.16	0.80	J D	1.5	0.15
108-88-3	Toluene	92.14	58	D	0.60	0.28
10061-02-6	trans-1,3-Dichloropropene	110.97	0.60	U	0.60	0.10
79-00-5	1,1,2-Trichloroethane	133.41	0.60	U	0.60	0.12
127-18-4	Tetrachloroethene	165.83	0.60	U	0.60	0.069
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.5	U	1.5	0.17
124-48-1	Dibromochloromethane	208.29	0.60	U	0.60	0.13
106-93-4	1,2-Dibromoethane	187.87	0.60	U	0.60	0.12
108-90-7	Chlorobenzene	112.56	0.60	U	0.60	0.15
100-41-4	Ethylbenzene	106.17	7.1	D	0.60	0.099
179601-23-1	m,p-Xylene	106.17	26	D	1.5	0.21
95-47-6	Xylene, o-	106.17	7.2	D	0.60	0.11
1330-20-7	Xylene (total)	106.17	33	D	2.1	0.11
100-42-5	Styrene	104.15	0.60	U	0.60	0.13
75-25-2	Bromoform	252.75	0.60	U	0.60	0.17
98-82-8	Cumene	120.19	0.37	J D	0.60	0.090
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.60	U	0.60	0.13
103-65-1	n-Propylbenzene	120.19	0.44	J D	0.60	0.13
622-96-8	4-Ethyltoluene	120.20	0.69	D	0.60	0.13
108-67-8	1,3,5-Trimethylbenzene	120.20	0.41	J D	0.60	0.12
95-49-8	2-Chlorotoluene	126.59	0.60	U	0.60	0.099
98-06-6	tert-Butylbenzene	134.22	0.60	U	0.60	0.13
95-63-6	1,2,4-Trimethylbenzene	120.20	0.90	D	0.60	0.13
135-98-8	sec-Butylbenzene	134.22	0.60	U	0.60	0.13
99-87-6	4-Isopropyltoluene	134.22	0.60	U	0.60	0.11
541-73-1	1,3-Dichlorobenzene	147.00	0.60	U	0.60	0.16
106-46-7	1,4-Dichlorobenzene	147.00	0.60	U	0.60	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 DL Lab Sample ID: 200-29972-2 DL

Matrix: Air Lab File ID: 15991_024.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:19

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 05:30

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.60*	*U*	*0.60*	*0.16*
104-51-8	*n-Butylbenzene*	*134.22*	*0.60*	*U*	*0.60*	*0.14*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.60*	*U*	*0.60*	*0.16*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*1.5*	*U*	*1.5*	*0.20*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.60*	*U*	*0.60*	*0.25*
91-20-3	*Naphthalene*	*128.17*	*1.5*	*U*	*1.5*	*0.17*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 DL | Lab Sample ID: 200-29972-2 DL

Matrix: Air | Lab File ID: 15991_024.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 05:30

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.4	J D	7.4	1.2
75-45-6	Freon 22	86.47	1.5	J D	5.3	0.60
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	4.2	U	4.2	0.79
74-87-3	Chloromethane	50.49	1.5	J D	3.1	0.57
106-97-8	n-Butane	58.12	220	D	3.6	0.55
75-01-4	Vinyl chloride	62.50	0.31	U	0.31	0.24
106-99-0	1,3-Butadiene	54.09	1.3	U	1.3	0.59
74-83-9	Bromomethane	94.94	2.3	U	2.3	0.65
75-00-3	Chloroethane	64.52	3.9	U	3.9	0.67
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.6	U	2.6	0.58
75-69-4	Trichlorofluoromethane	137.37	2.0	J D	3.4	0.64
76-13-1	Freon TF	187.38	4.6	U	4.6	1.7
75-35-4	1,1-Dichloroethene	96.94	2.4	U	2.4	0.43
67-64-1	Acetone	58.08	25	J D	36	6.1
67-63-0	Isopropyl alcohol	60.10	37	U	37	7.2
75-15-0	Carbon disulfide	76.14	4.7	U	4.7	0.40
107-05-1	3-Chloropropene	76.53	4.7	U	4.7	0.64
75-09-2	Methylene Chloride	84.93	5.2	U	5.2	1.9
75-65-0	tert-Butyl alcohol	74.12	45	U	45	7.7
1634-04-4	Methyl tert-butyl ether	88.15	2.2	U	2.2	0.96
156-60-5	trans-1,2-Dichloroethene	96.94	2.4	U	2.4	0.51
110-54-3	n-Hexane	86.17	130	D	2.1	0.57
75-34-3	1,1-Dichloroethane	98.96	2.4	U	2.4	0.30
78-93-3	Methyl Ethyl Ketone	72.11	4.2	J D	4.4	0.46
156-59-2	cis-1,2-Dichloroethene	96.94	2.4	U	2.4	0.41
540-59-0	1,2-Dichloroethene, Total	96.94	4.7	U	4.7	0.41
67-66-3	Chloroform	119.38	2.9	U	2.9	1.2
109-99-9	Tetrahydrofuran	72.11	44	U	44	12
71-55-6	1,1,1-Trichloroethane	133.41	3.3	U	3.3	0.75
110-82-7	Cyclohexane	84.16	18	D	2.1	0.40
56-23-5	Carbon tetrachloride	153.81	0.75	U	0.75	0.60
540-84-1	2,2,4-Trimethylpentane	114.23	51	D	2.8	0.54
71-43-2	Benzene	78.11	41	D	1.9	0.40
107-06-2	1,2-Dichloroethane	98.96	2.4	U	2.4	0.50

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 DL | Lab Sample ID: 200-29972-2 DL

Matrix: Air | Lab File ID: 15991_024.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:19

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 05:30

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	35	D	2.5	0.49
79-01-6	Trichloroethene	131.39	0.64	U	0.64	0.63
80-62-6	Methyl methacrylate	100.12	6.1	U	6.1	0.49
78-87-5	1,2-Dichloropropane	112.99	2.8	U	2.8	0.37
123-91-1	1,4-Dioxane	88.11	54	U	54	6.0
75-27-4	Bromodichloromethane	163.83	4.0	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	110.97	2.7	U	2.7	0.31
108-10-1	methyl isobutyl ketone	100.16	3.3	J D	6.1	0.61
108-88-3	Toluene	92.14	220	D	2.3	1.0
10061-02-6	trans-1,3-Dichloropropene	110.97	2.7	U	2.7	0.46
79-00-5	1,1,2-Trichloroethane	133.41	3.3	U	3.3	0.64
127-18-4	Tetrachloroethene	165.83	4.1	U	4.1	0.47
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	6.1	U	6.1	0.70
124-48-1	Dibromochloromethane	208.29	5.1	U	5.1	1.1
106-93-4	1,2-Dibromoethane	187.87	4.6	U	4.6	0.90
108-90-7	Chlorobenzene	112.56	2.8	U	2.8	0.67
100-41-4	Ethylbenzene	106.17	31	D	2.6	0.43
179601-23-1	m,p-Xylene	106.17	110	D	6.5	0.92
95-47-6	Xylene, o-	106.17	31	D	2.6	0.48
1330-20-7	Xylene (total)	106.17	140	D	9.1	0.48
100-42-5	Styrene	104.15	2.5	U	2.5	0.55
75-25-2	Bromoform	252.75	6.2	U	6.2	1.7
98-82-8	Cumene	120.19	1.8	J D	2.9	0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	4.1	U	4.1	0.90
103-65-1	n-Propylbenzene	120.19	2.2	J D	2.9	0.63
622-96-8	4-Ethyltoluene	120.20	3.4	D	2.9	0.65
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	J D	2.9	0.57
95-49-8	2-Chlorotoluene	126.59	3.1	U	3.1	0.51
98-06-6	tert-Butylbenzene	134.22	3.3	U	3.3	0.72
95-63-6	1,2,4-Trimethylbenzene	120.20	4.4	D	2.9	0.63
135-98-8	sec-Butylbenzene	134.22	3.3	U	3.3	0.72
99-87-6	4-Isopropyltoluene	134.22	3.3	U	3.3	0.61
541-73-1	1,3-Dichlorobenzene	147.00	3.6	U	3.6	0.99
106-46-7	1,4-Dichlorobenzene	147.00	3.6	U	3.6	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA01-092315 DL Lab Sample ID: 200-29972-2 DL

Matrix: Air Lab File ID: 15991_024.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:19

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 05:30

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*3.1*	*U*	*3.1*	*0.82*
104-51-8	*n-Butylbenzene*	*134.22*	*3.3*	*U*	*3.3*	*0.77*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*3.6*	*U*	*3.6*	*0.99*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*11*	*U*	*11*	*1.5*
87-68-3	*Hexachlorobutadiene*	*260.76*	*6.4*	*U*	*6.4*	*2.6*
91-20-3	*Naphthalene*	*128.17*	*7.8*	*U*	*7.8*	*0.89*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d
Lims ID: 200-29972-A-2 Lab Sample ID: 200-29972-2
Client ID: FR-IA01-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 05:30:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 200.000 mL Dil. Factor: 2.9900
Sample Info: 200-0015991-024
Misc. Info.: 29972-02
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:22:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	99	9051	0.2298	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	95	2308	0.1453	M
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	4.993	5.009	-0.016	96	1896	0.2464	
6 Butane	43	5.287	5.282	0.005	96	351672	31.4	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.298	7.288	0.010	96	5375	0.1202	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96		8.663				ND	
22 Acetone	43	8.952	8.935	0.017	97	48207	3.47	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.230	9.219	0.011	94	8417	0.7605	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.931	9.925	0.006	39	1141	0.1121	
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	91	165234	12.2	
34 1,1-Dichloroethane	63		11.428				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.670	12.653	0.017	99	3044	0.4743	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	73	124053	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84	13.520	13.509	0.011	90	31803	1.78	
44 1,1,1-Trichloroethane	97		13.531				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.782	13.782	0.000	63	1202	0.0285	
46 Isooctane	57	14.184	14.183	0.001	96	177345	3.66	
47 Benzene	78	14.253	14.253	0.000	94	180816	4.32	
48 1,2-Dichloroethane	62		14.419				ND	
49 n-Heptane	43	14.537	14.531	0.006	84	43229	2.86	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	618382	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.623	0.006	89	5917	0.2690	
65 Toluene	92	17.955	17.960	-0.005	93	697197	19.3	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166		18.987				ND	
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		11.2	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	623609	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.897	20.897	0.000	97	190817	2.37	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	286614	8.79	
79 o-Xylene	106	21.802	21.801	0.001	99	77351	2.41	
80 Styrene	104		21.839				ND	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.352	-0.005	95	12015	0.1221	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.973	22.973	0.000	0	17437	0.1471	M
88 4-Ethyltoluene	105	23.139	23.144	-0.005	99	25059	0.2302	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	94	12799	0.1360	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	98	28129	0.3018	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119		24.268				ND	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146		24.482				ND	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128		28.767				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

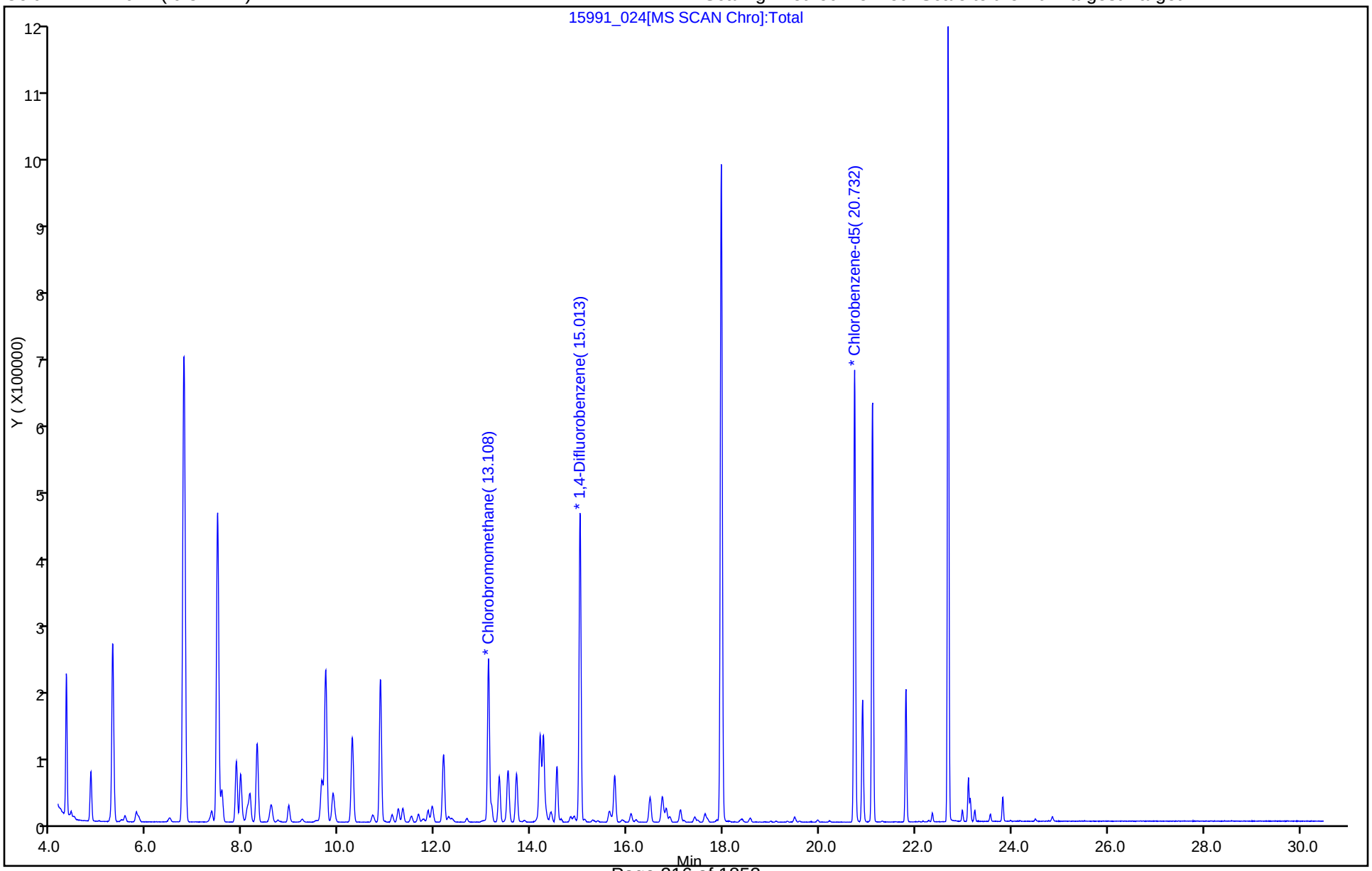
Report Date: 30-Sep-2015 14:18:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2	Worklist Smp#:	24
Client ID:	FR-IA01-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.9900	ALS Bottle#:	23
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

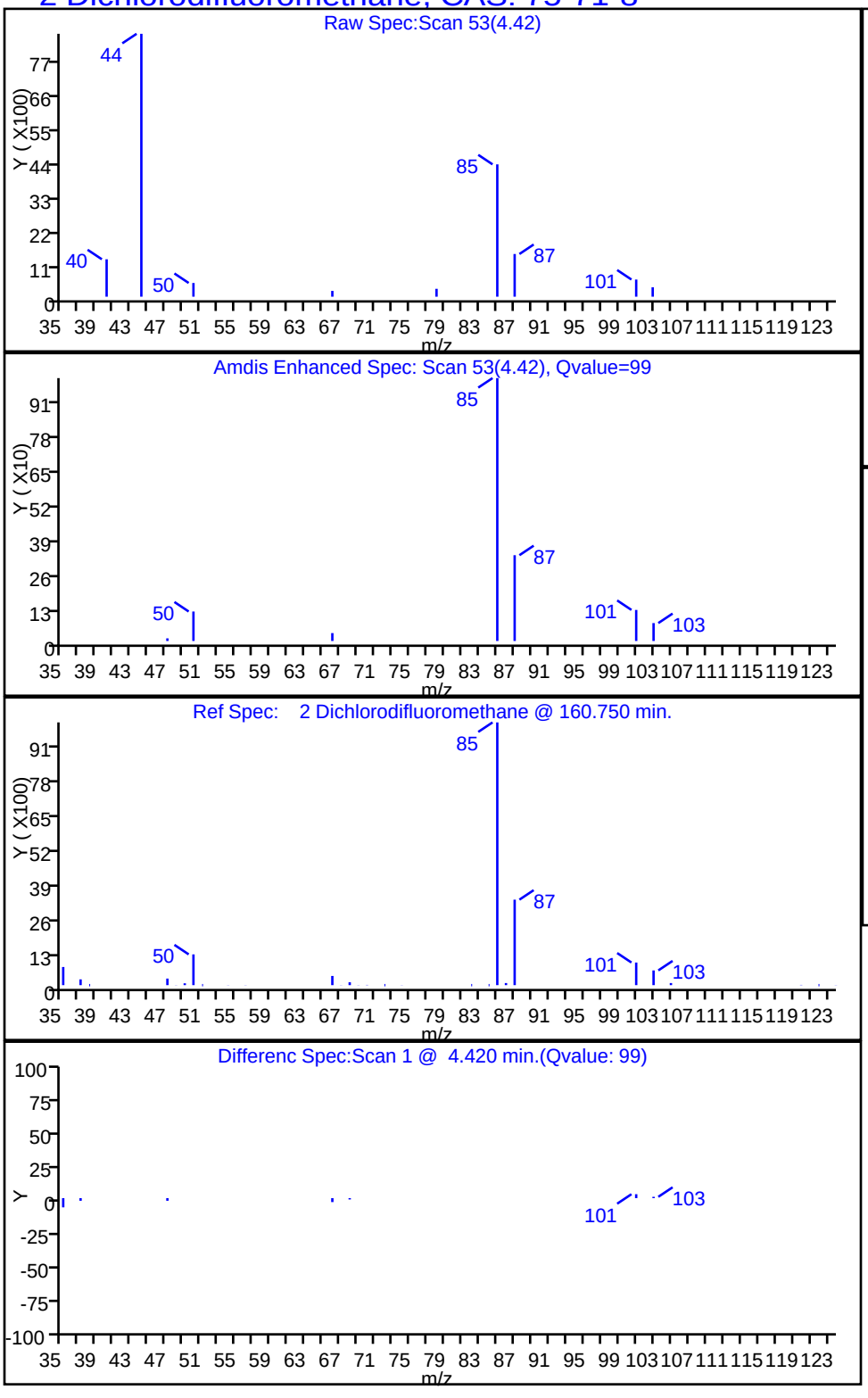


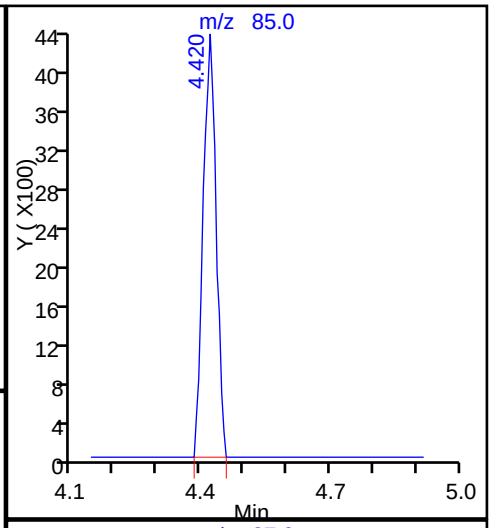
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

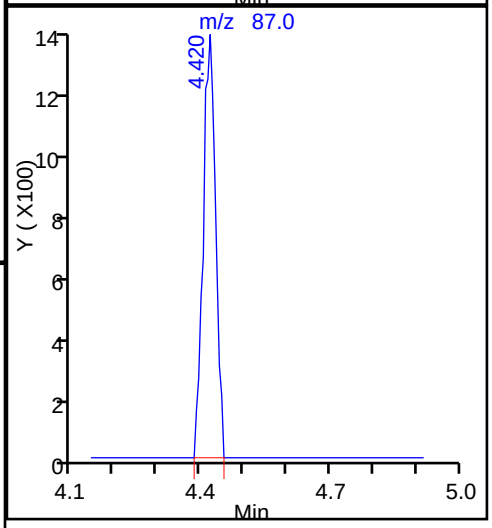
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8





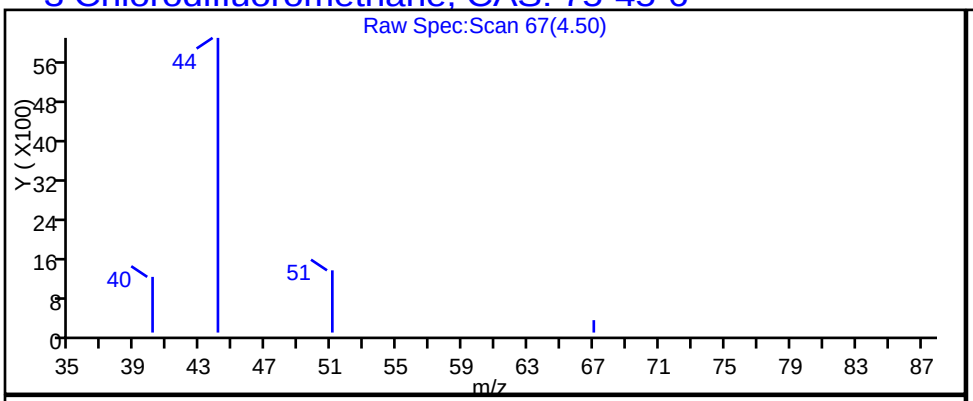


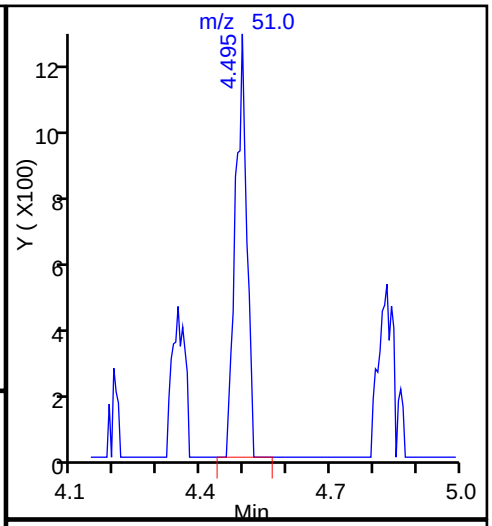
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

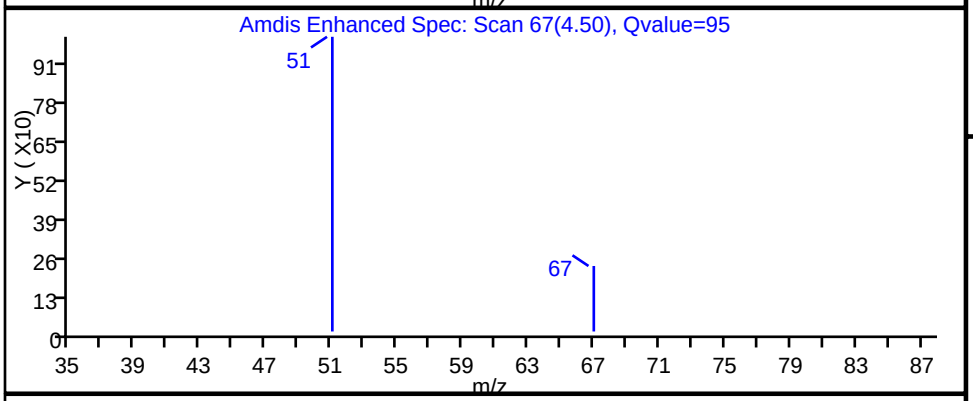
TestAmerica Burlington

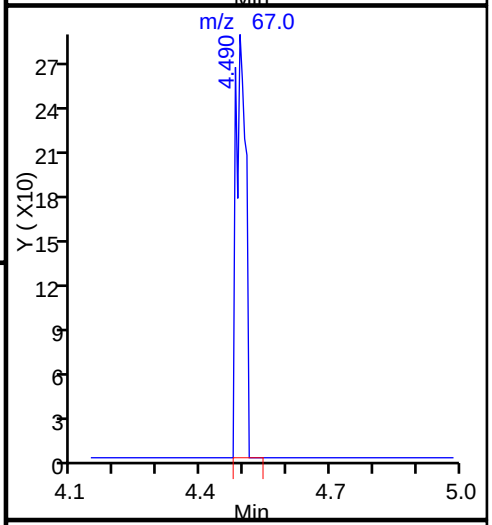
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

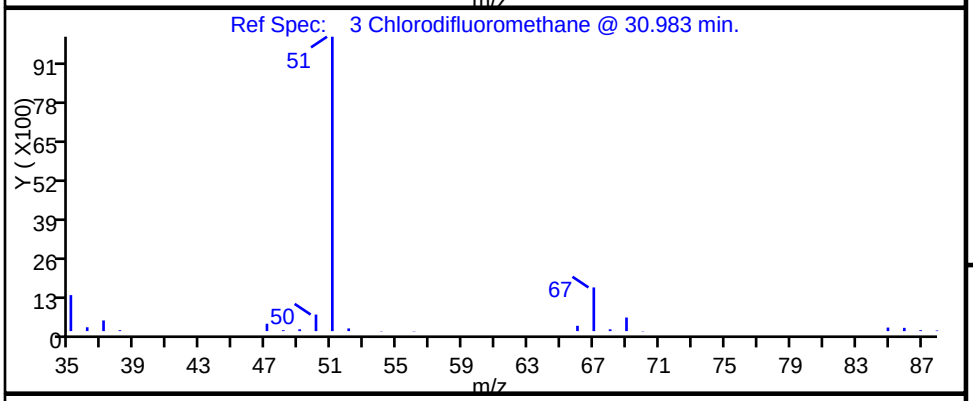
3 Chlorodifluoromethane, CAS: 75-45-6

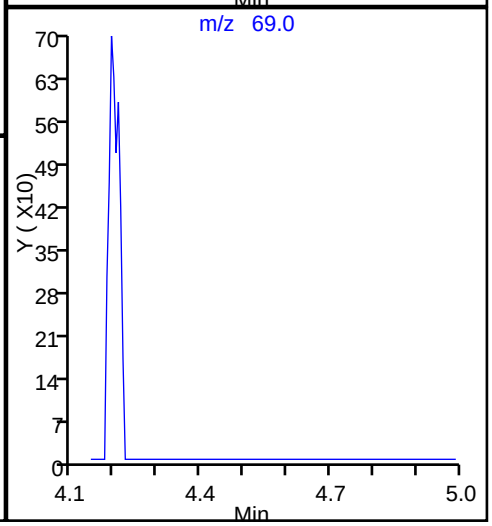


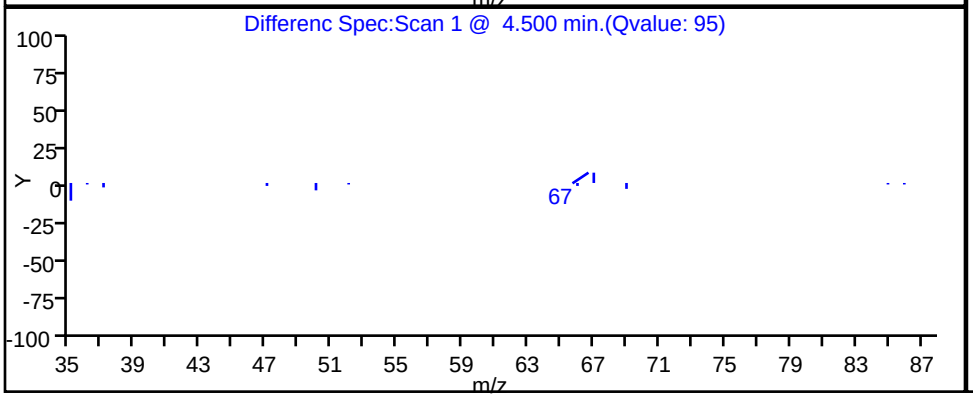












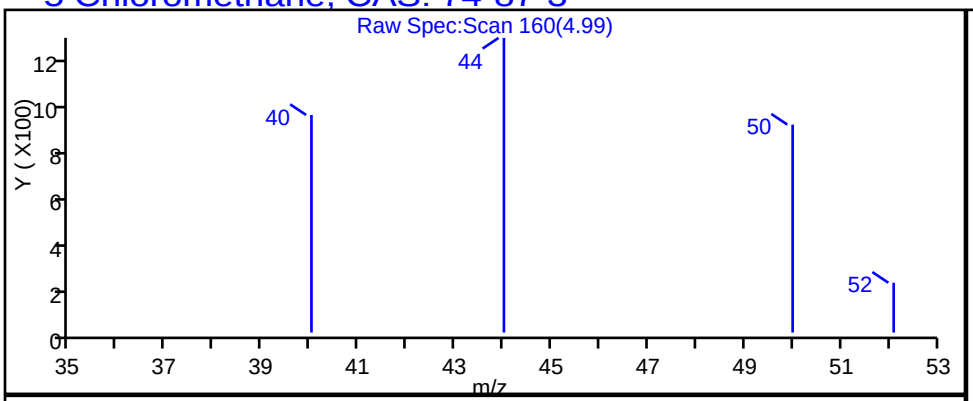
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

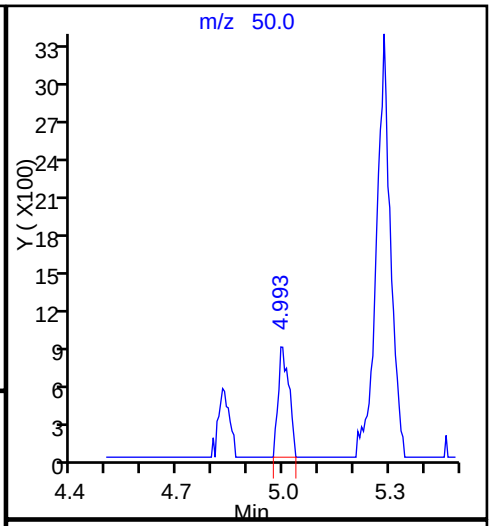
TestAmerica Burlington

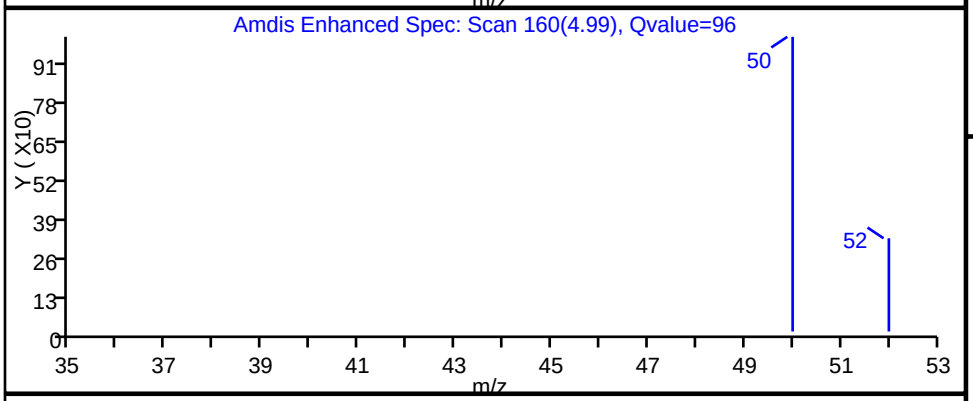
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

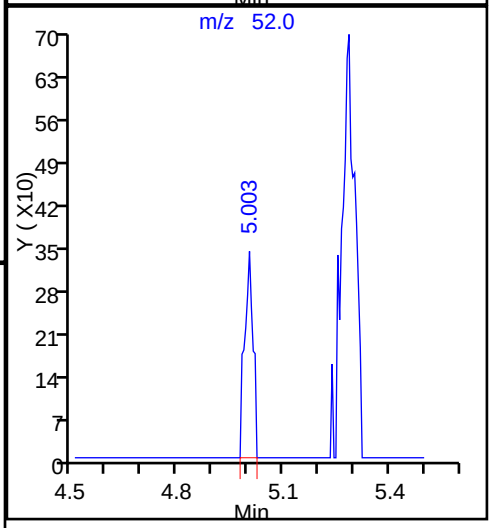
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

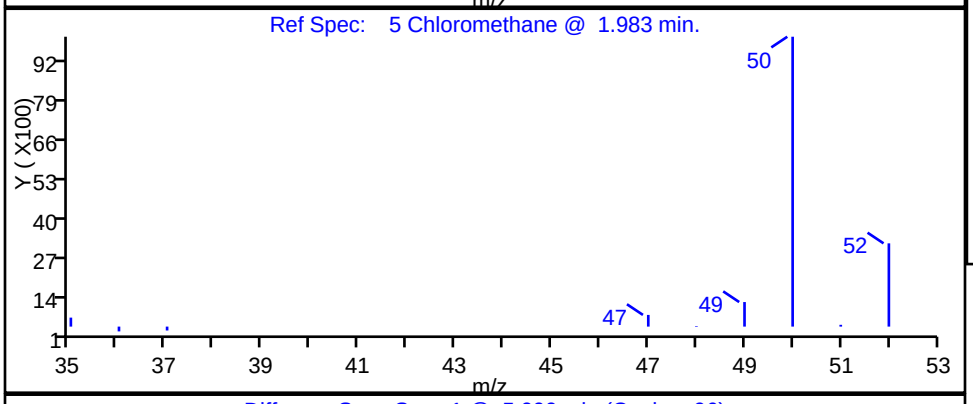
5 Chloromethane, CAS: 74-87-3

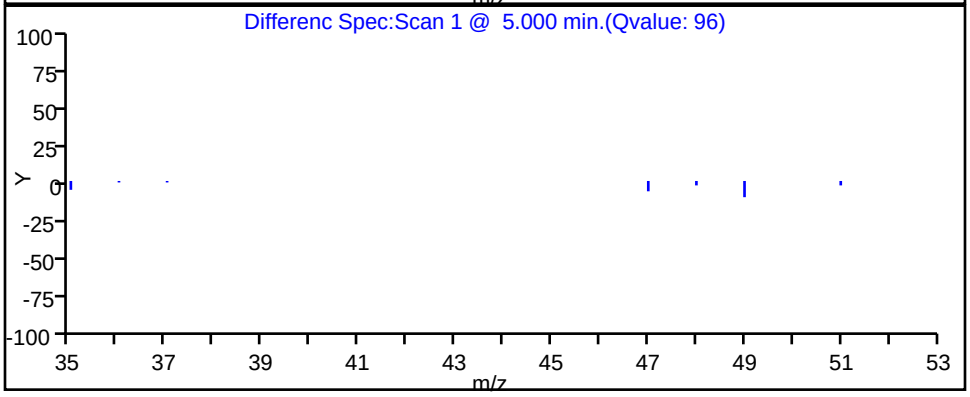












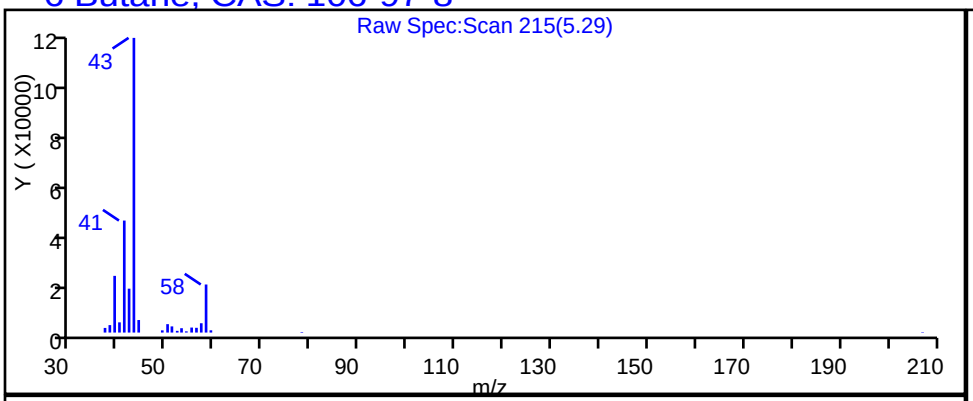
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

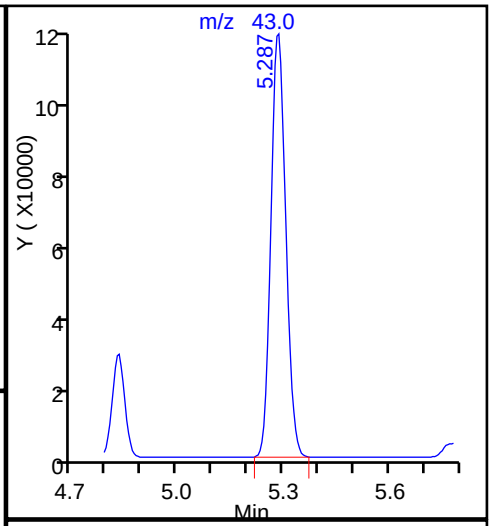
TestAmerica Burlington

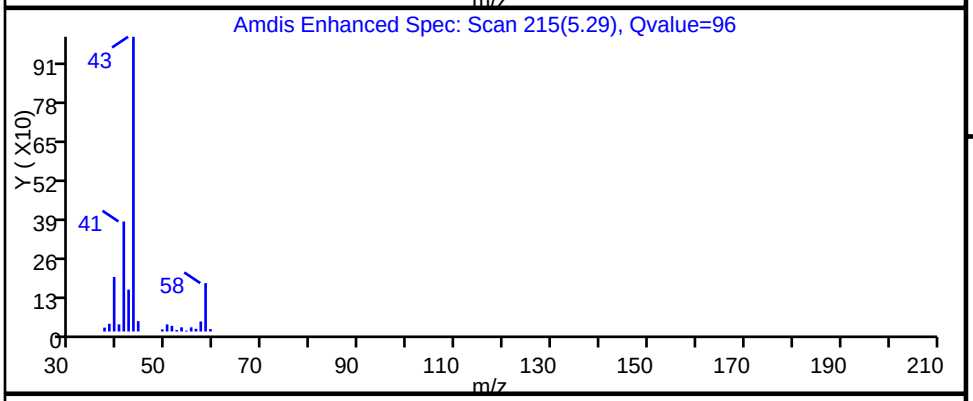
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

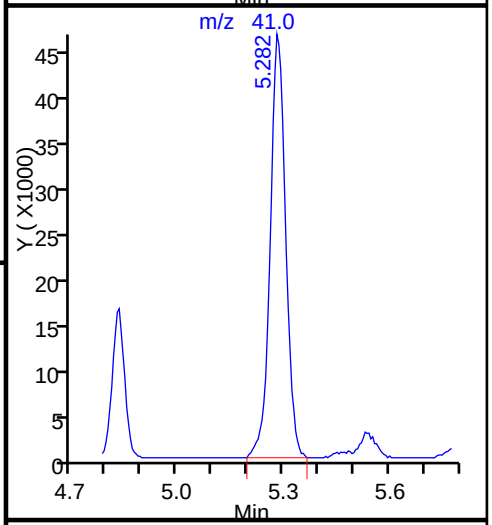
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

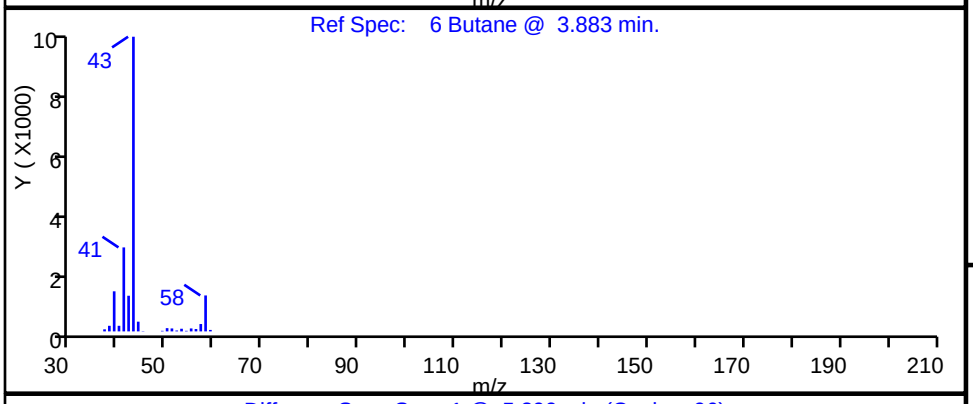
6 Butane, CAS: 106-97-8

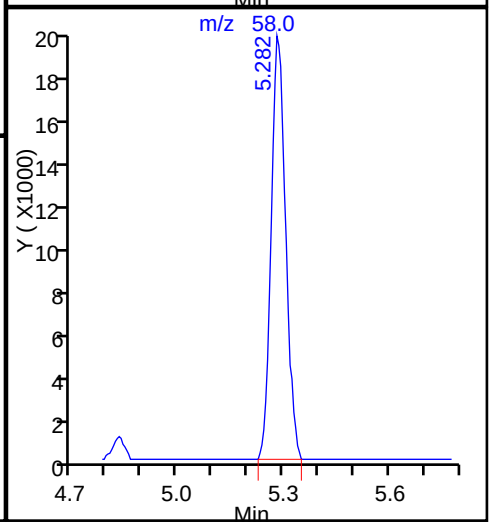


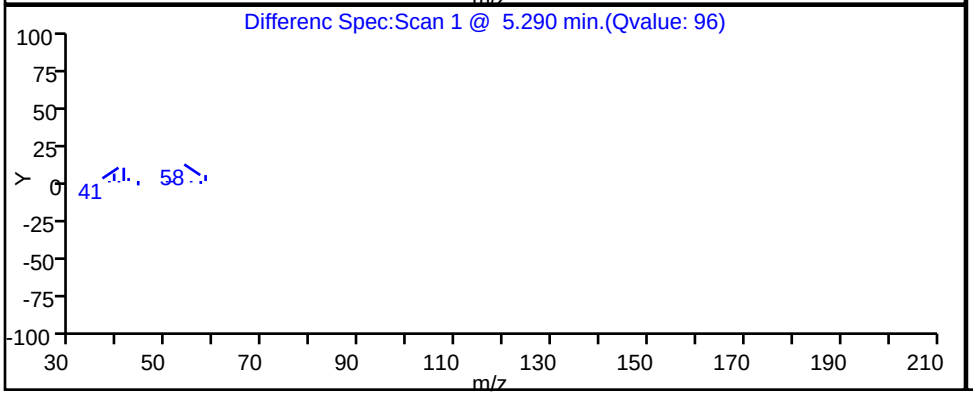












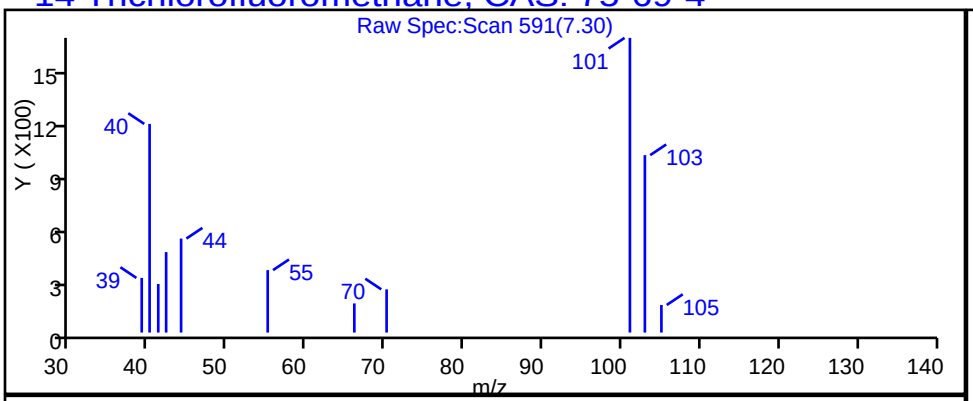
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

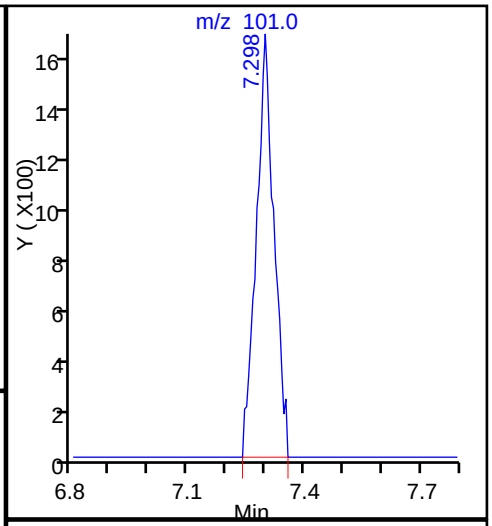
TestAmerica Burlington

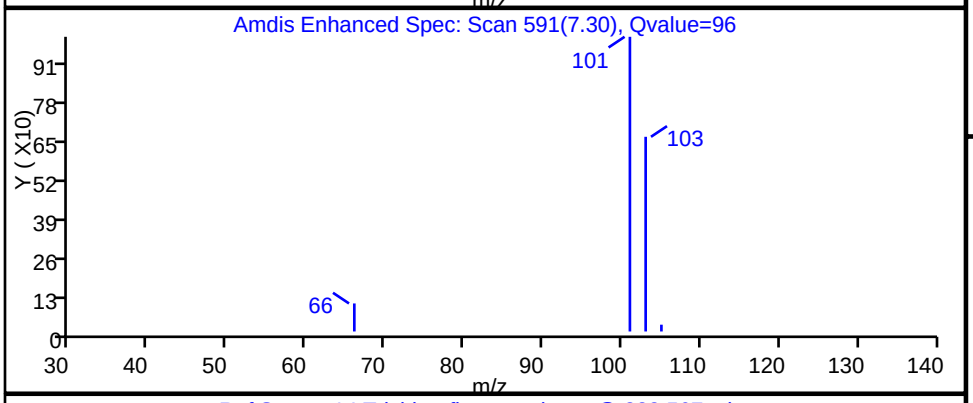
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

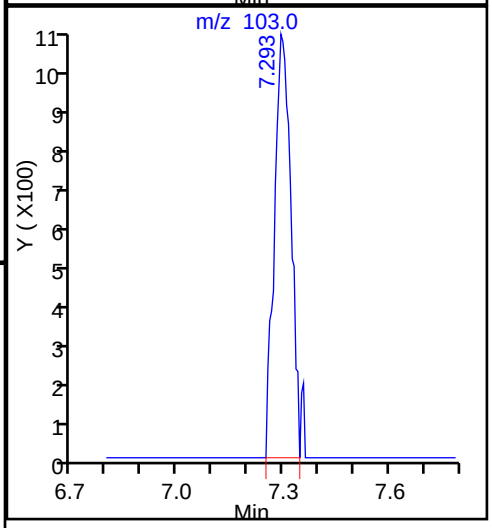
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

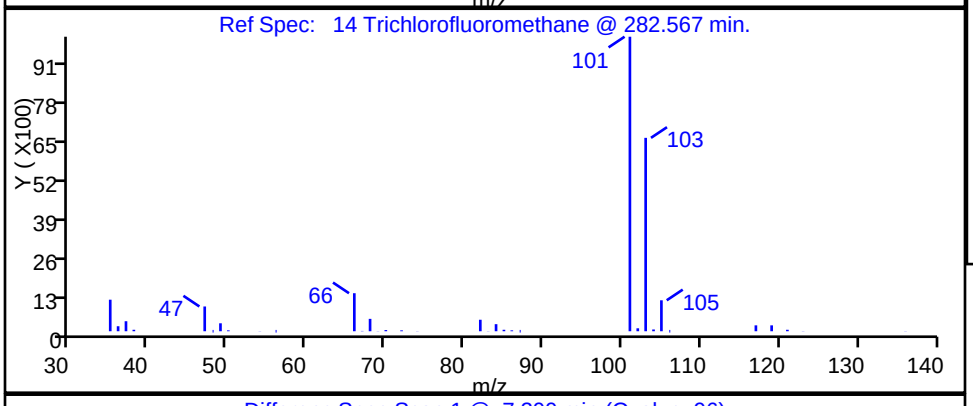
14 Trichlorofluoromethane, CAS: 75-69-4

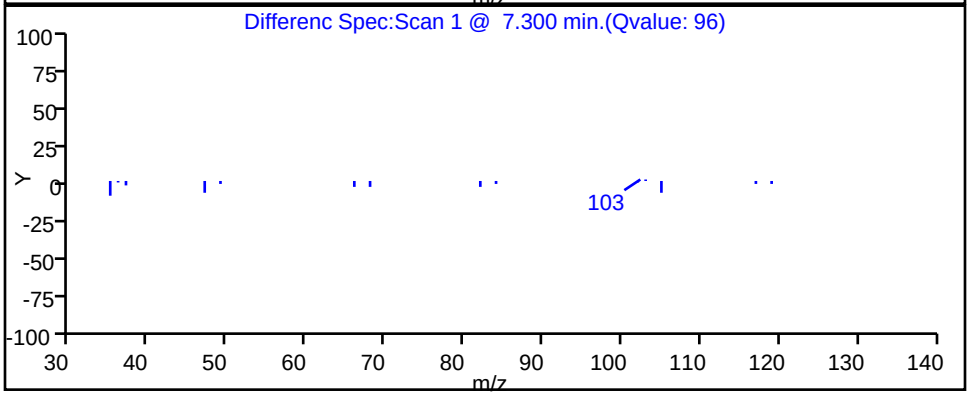












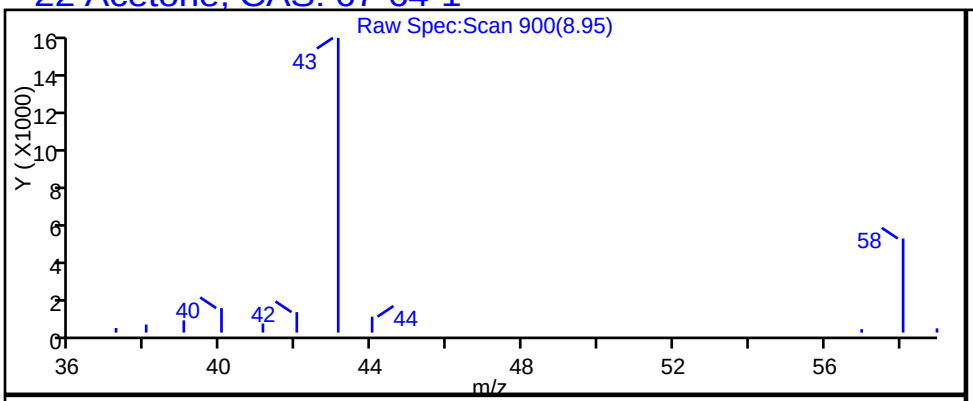
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

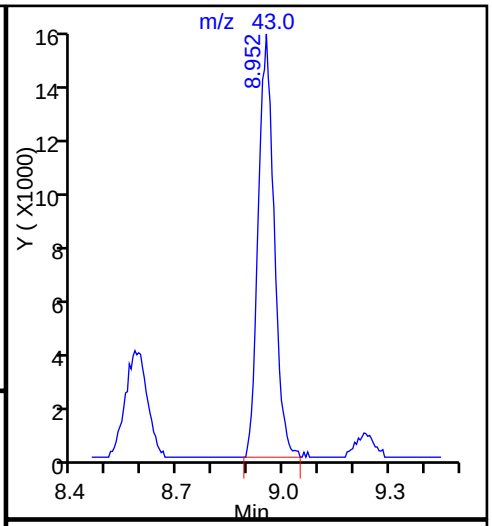
TestAmerica Burlington

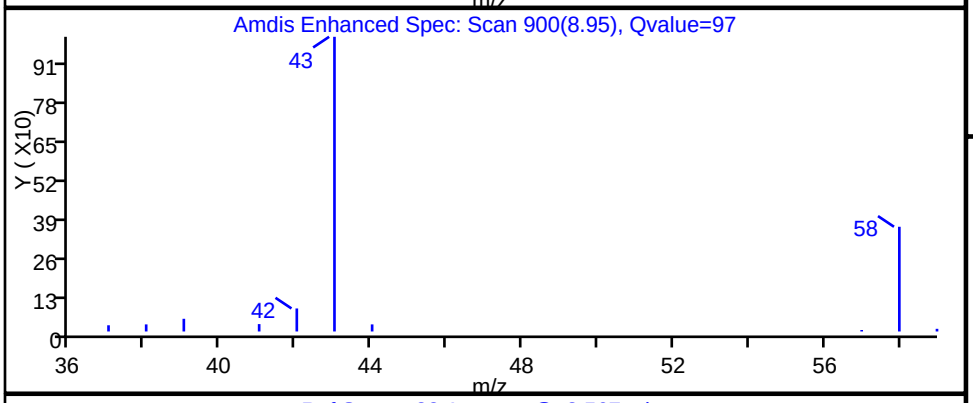
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

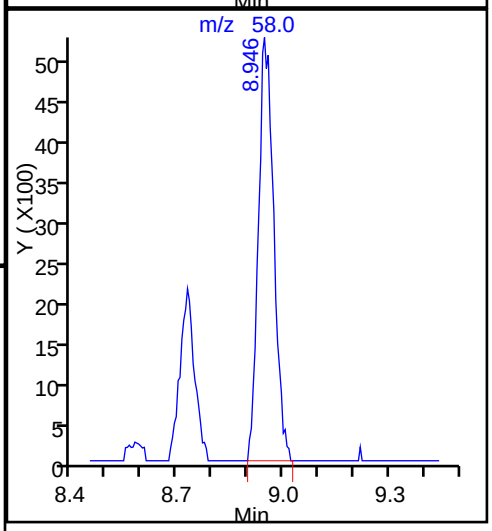
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

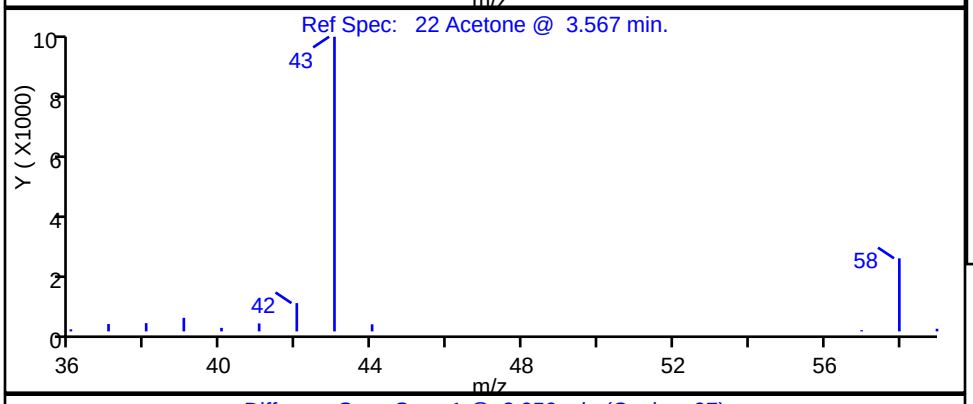
22 Acetone, CAS: 67-64-1

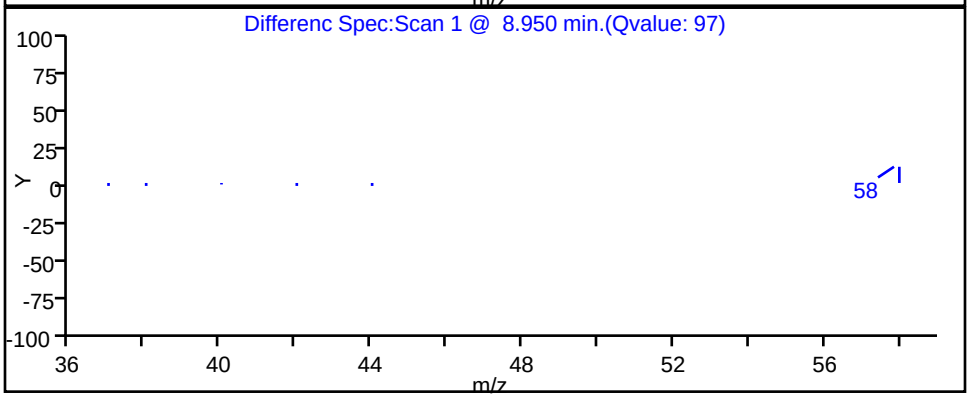












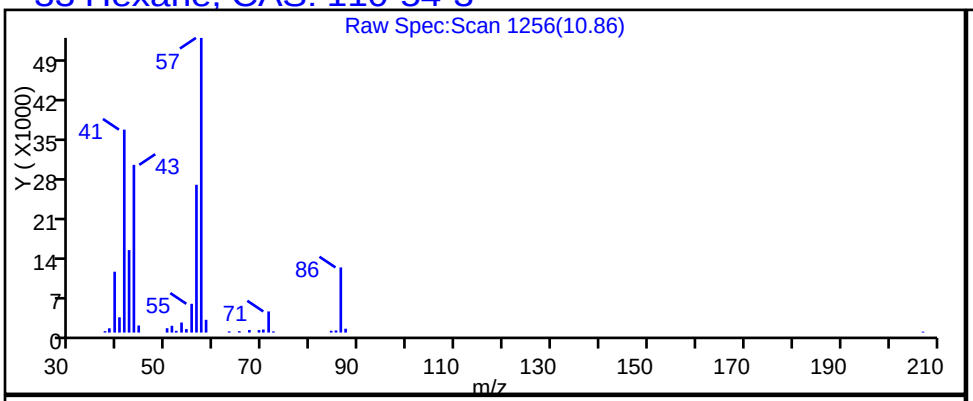
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

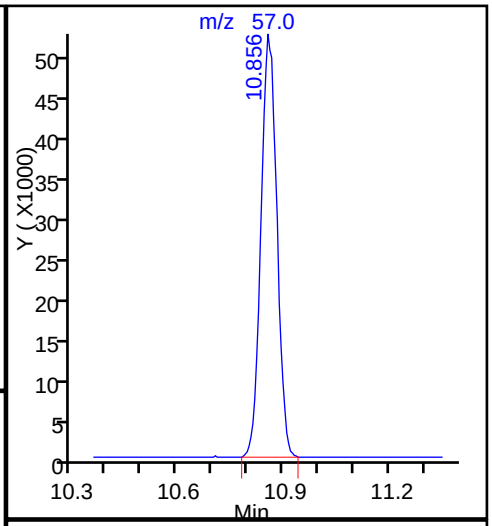
TestAmerica Burlington

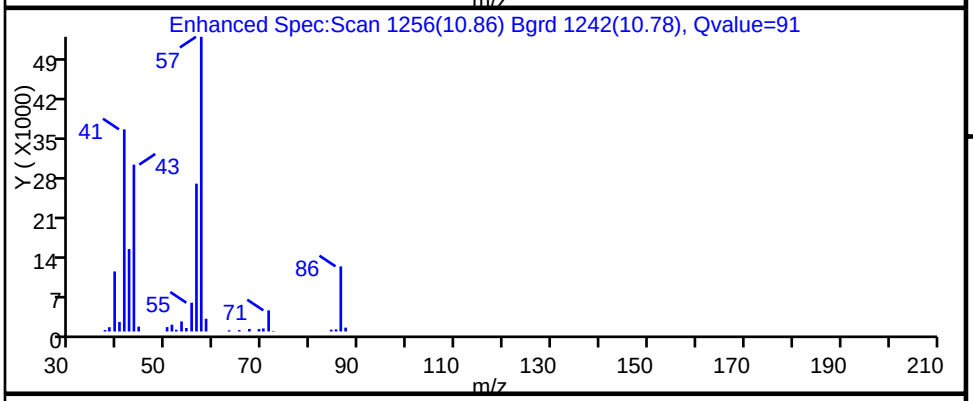
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

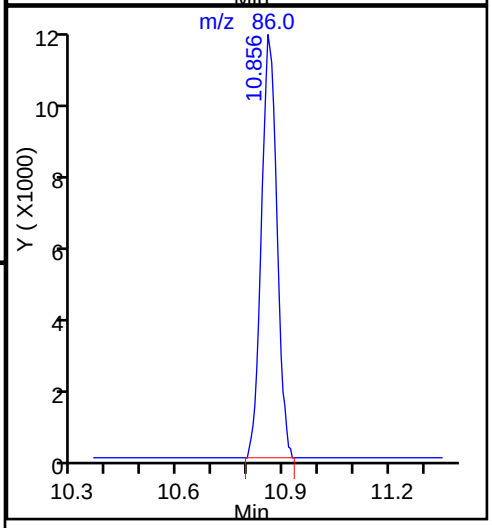
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

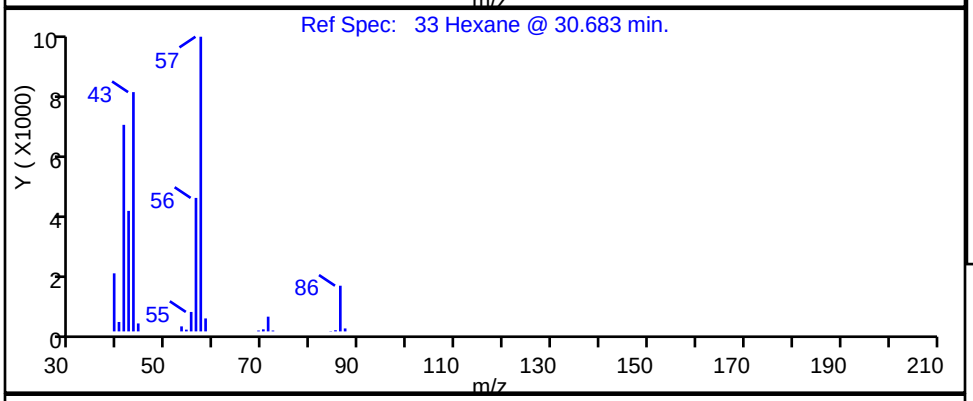
33 Hexane, CAS: 110-54-3

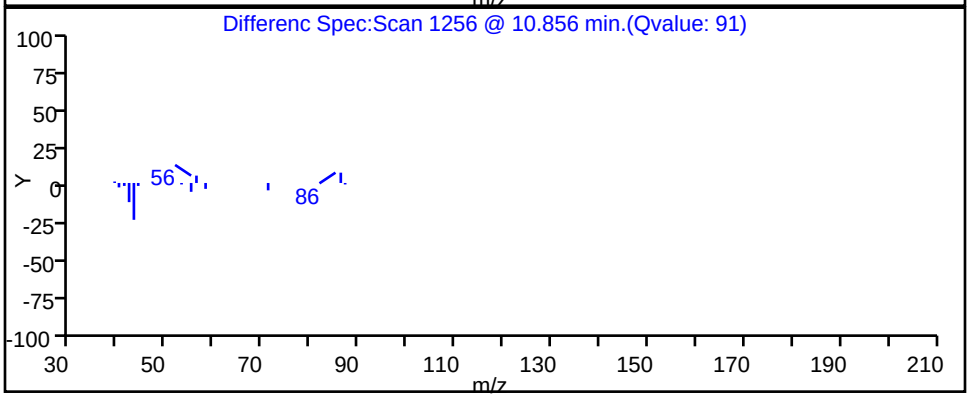












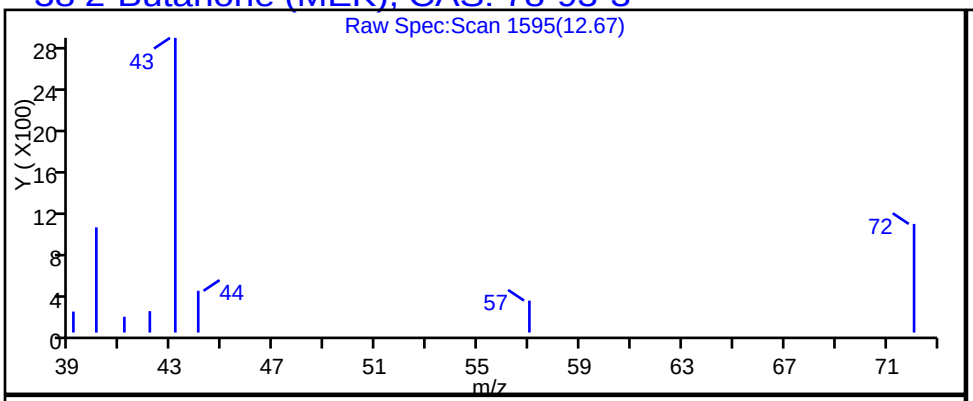
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

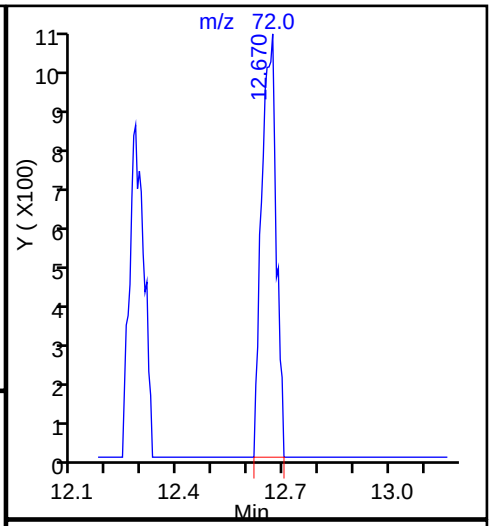
TestAmerica Burlington

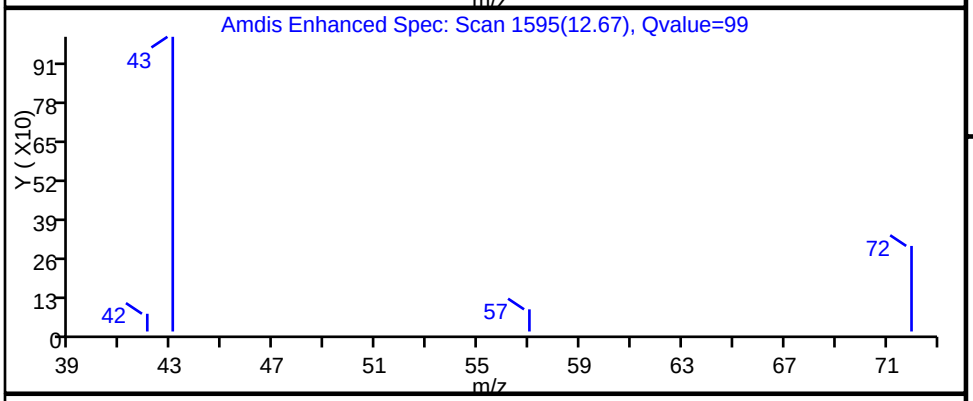
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

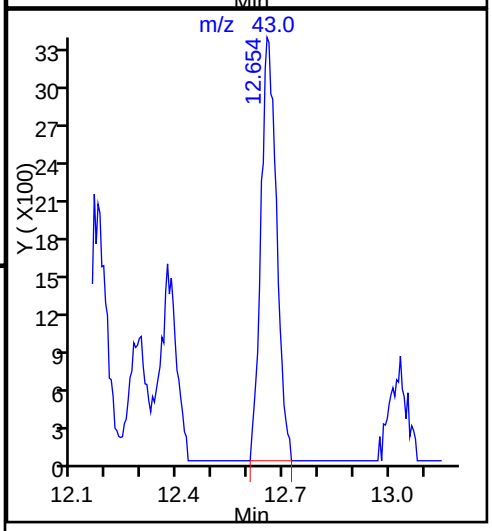
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

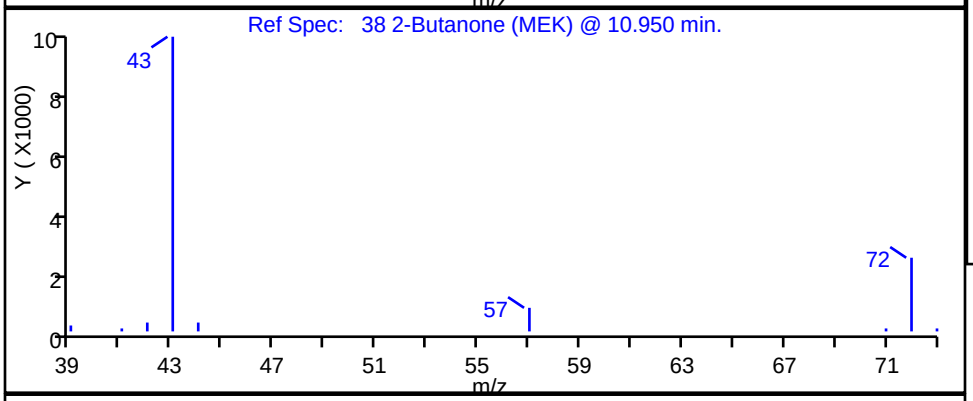
38 2-Butanone (MEK), CAS: 78-93-3

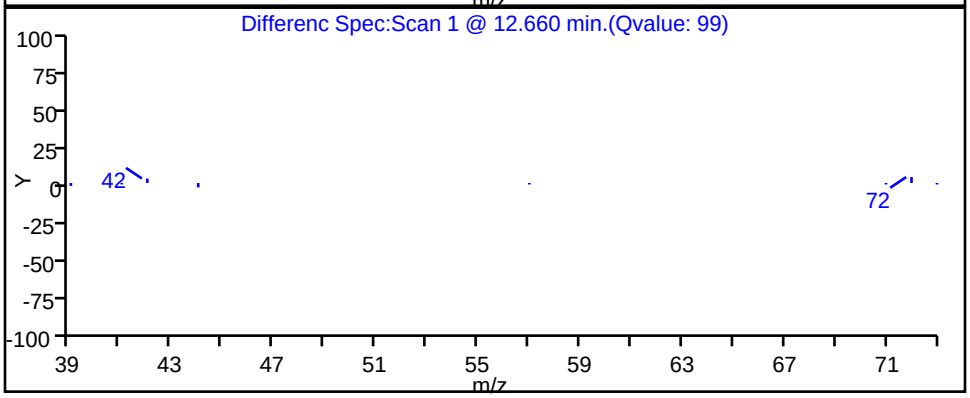










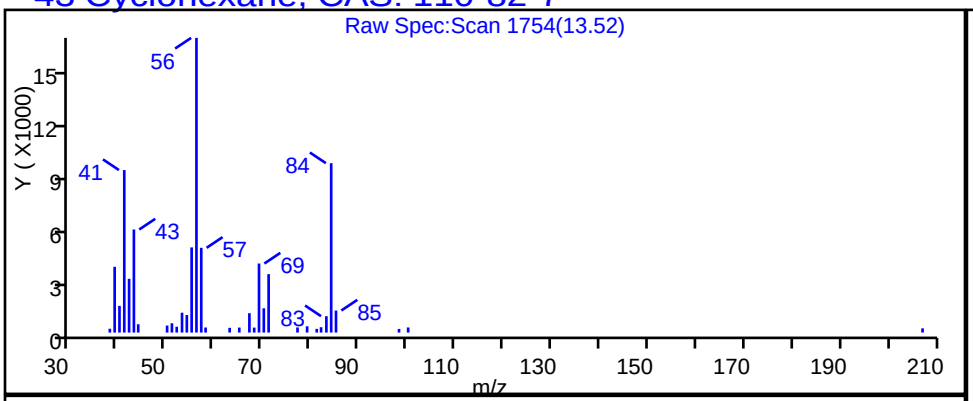


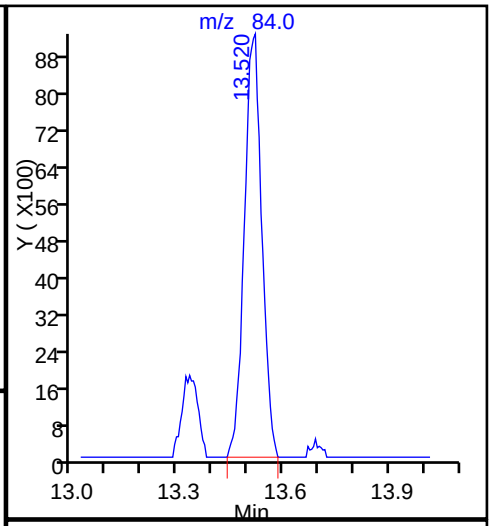
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

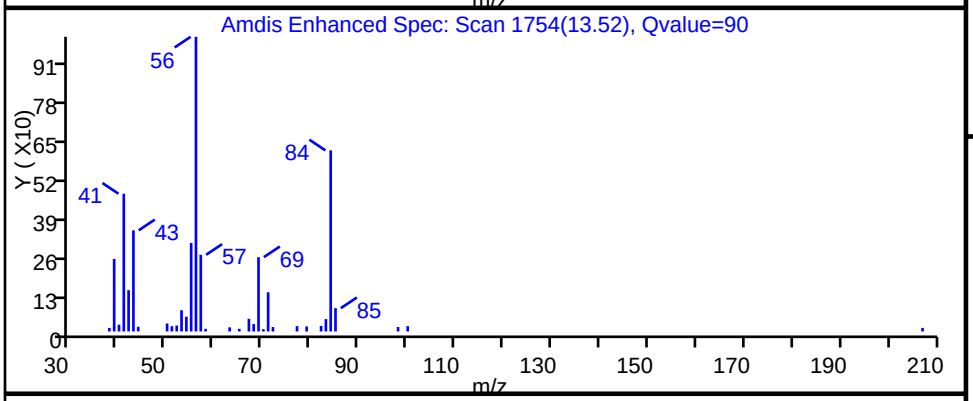
TestAmerica Burlington

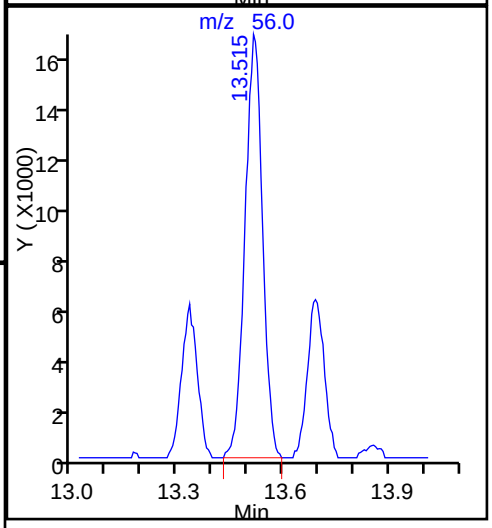
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

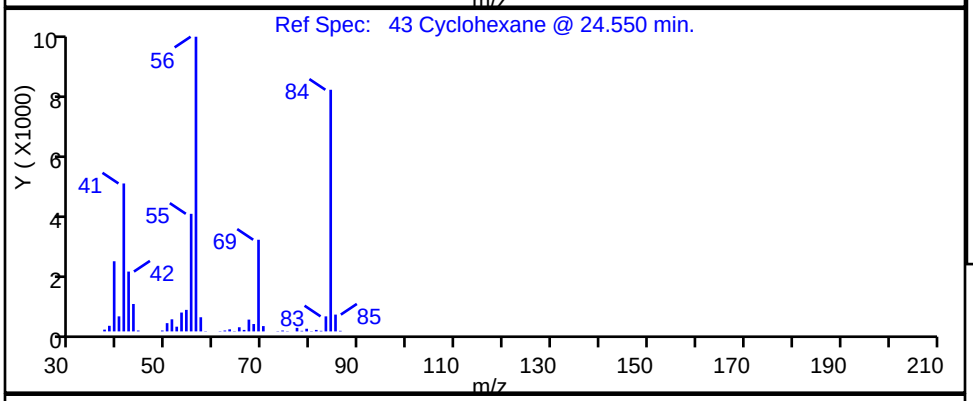
43 Cyclohexane, CAS: 110-82-7

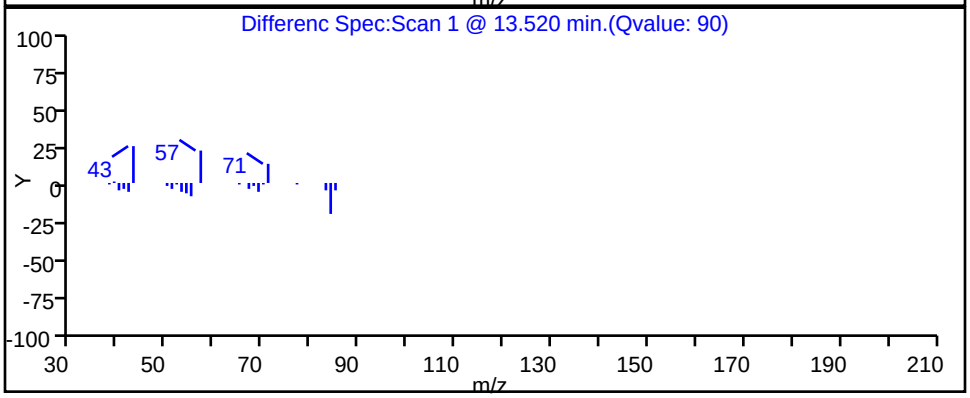












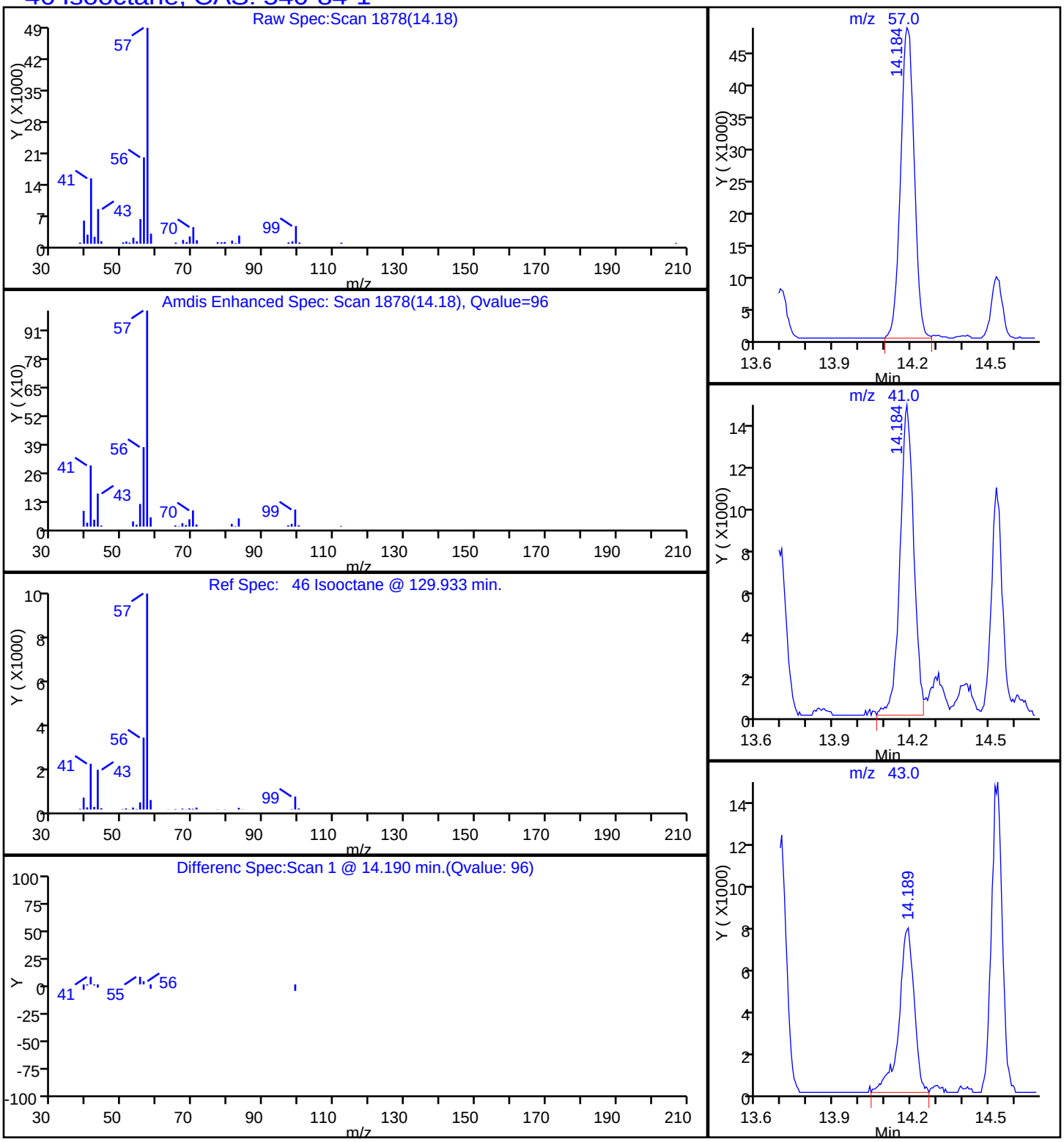
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1



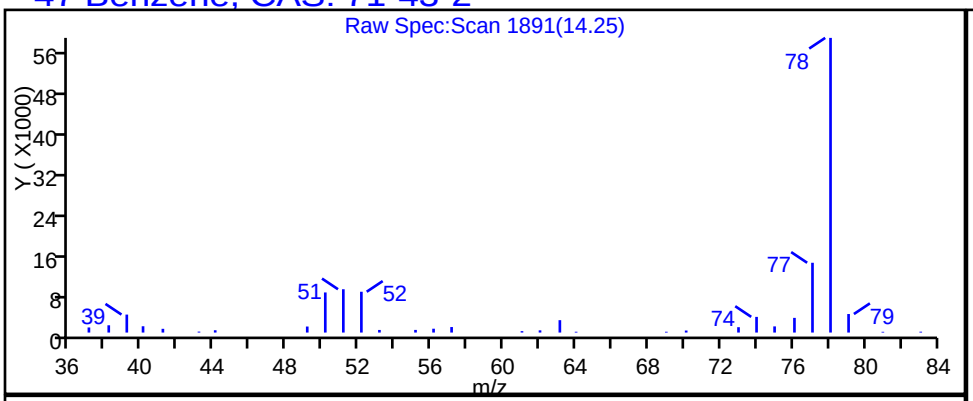
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

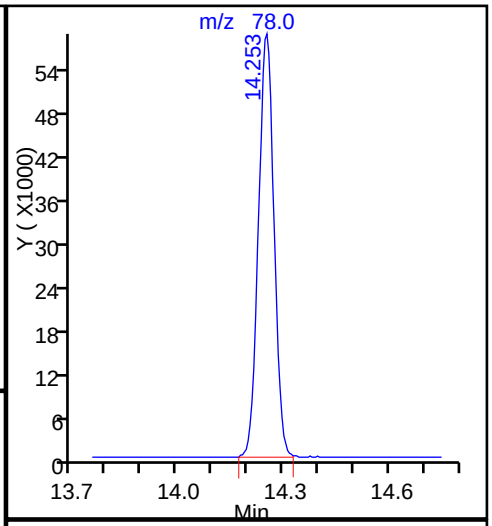
TestAmerica Burlington

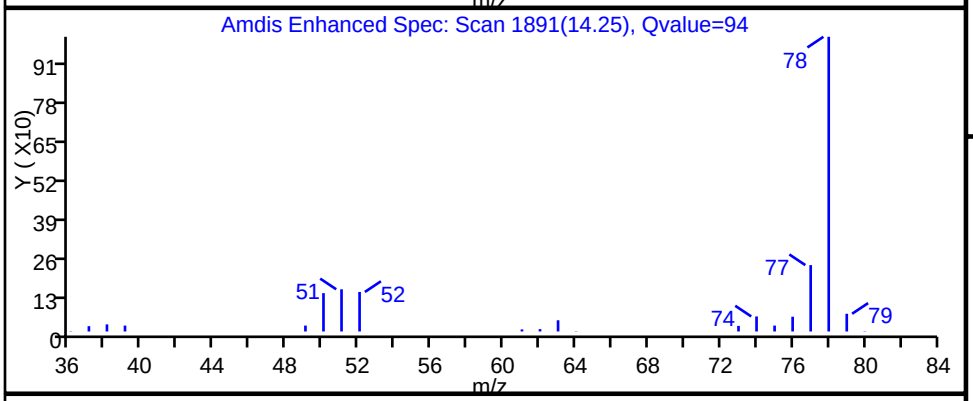
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

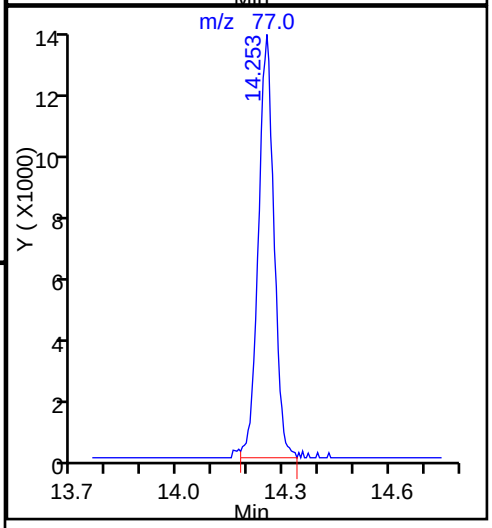
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

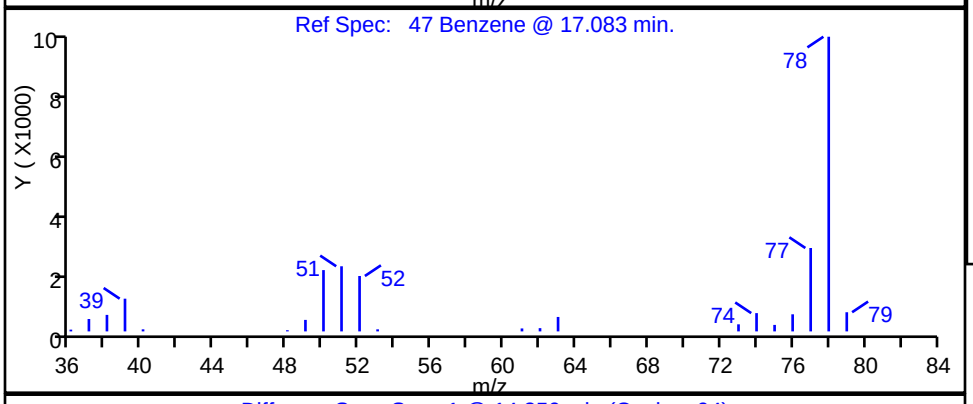
47 Benzene, CAS: 71-43-2

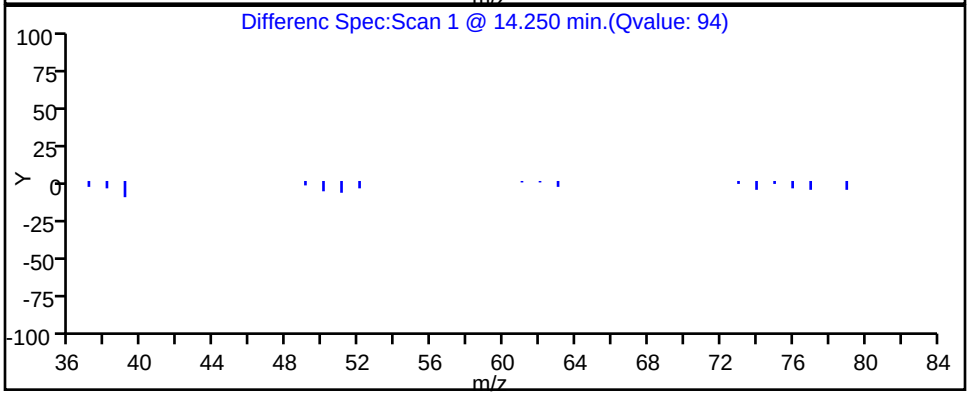












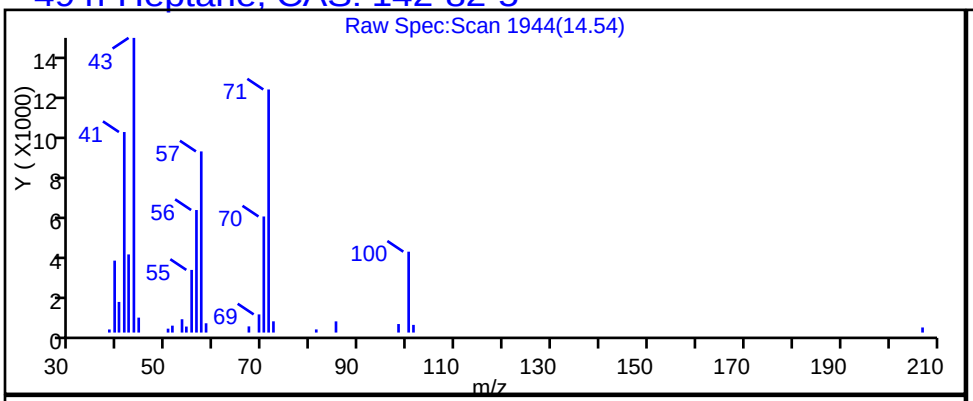
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

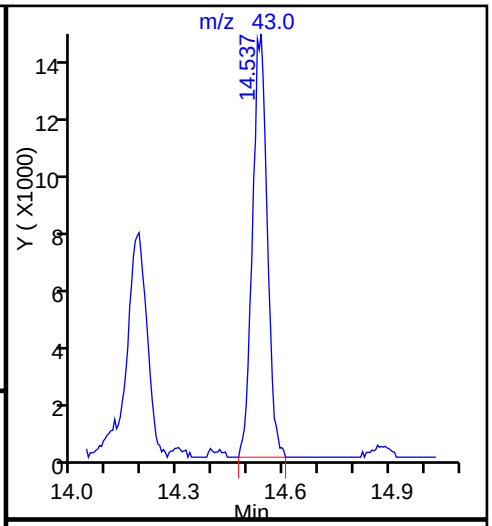
TestAmerica Burlington

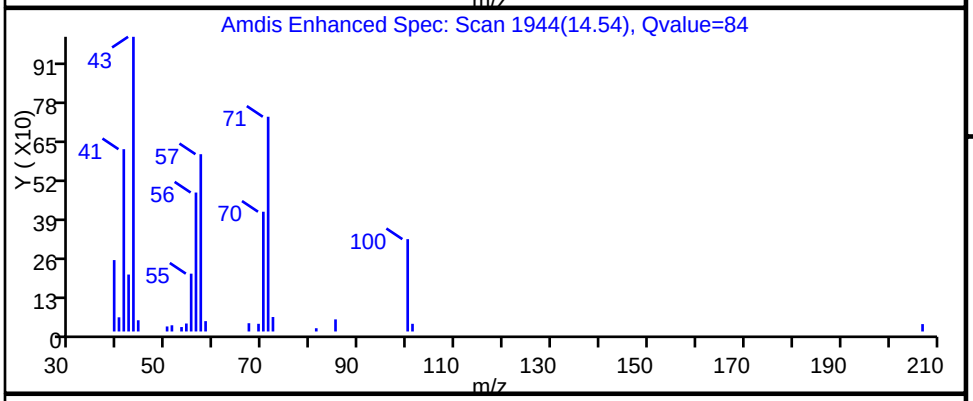
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

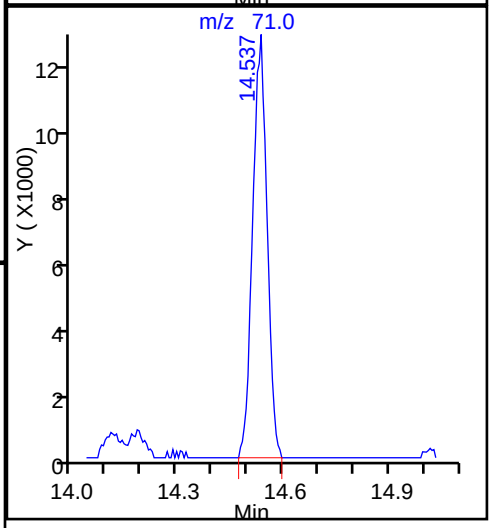
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

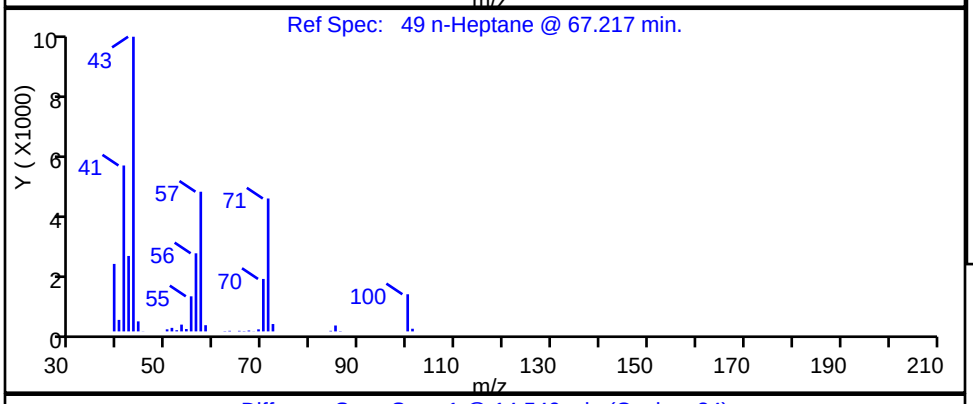
49 n-Heptane, CAS: 142-82-5

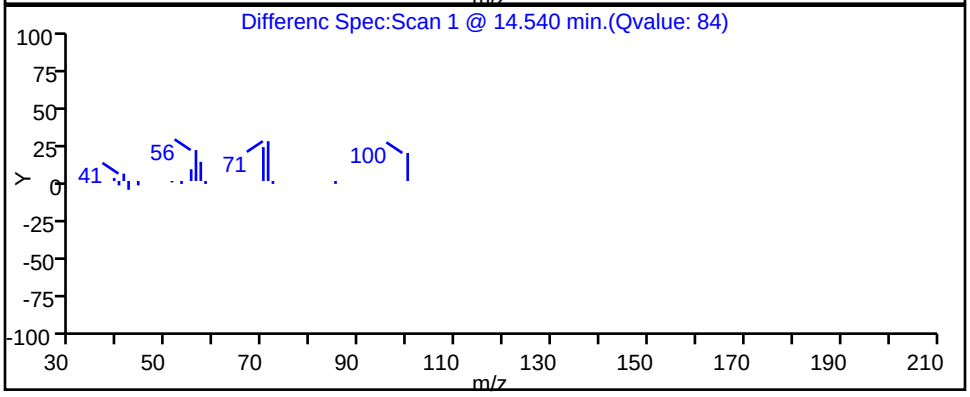












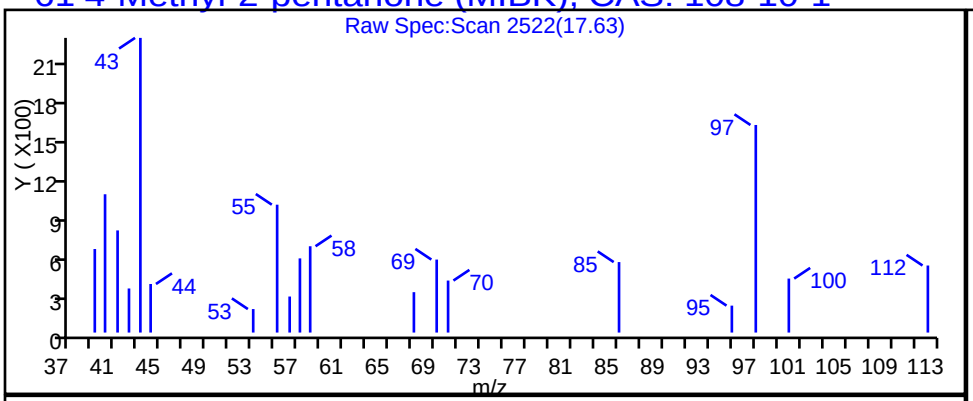
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

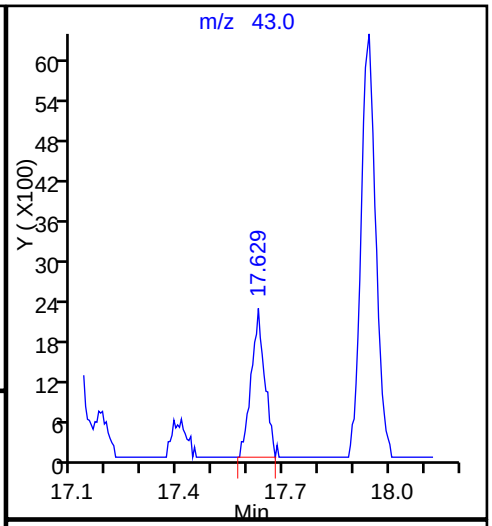
TestAmerica Burlington

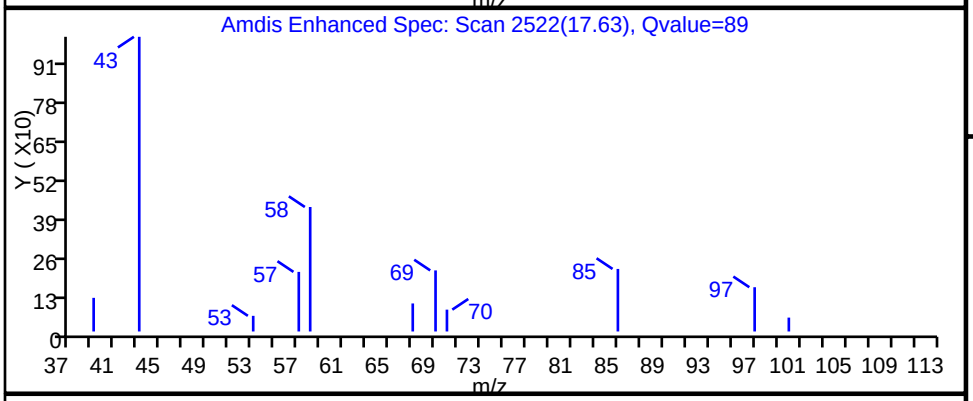
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

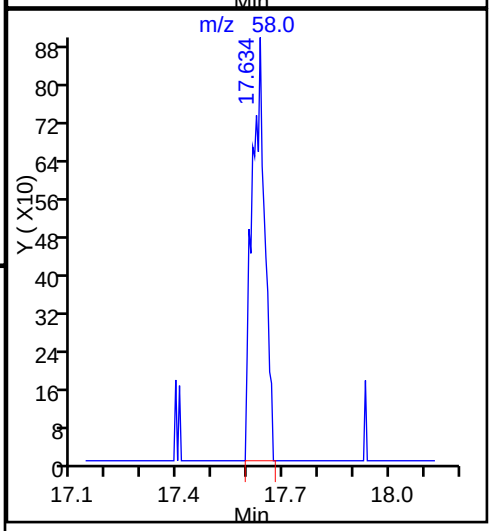
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

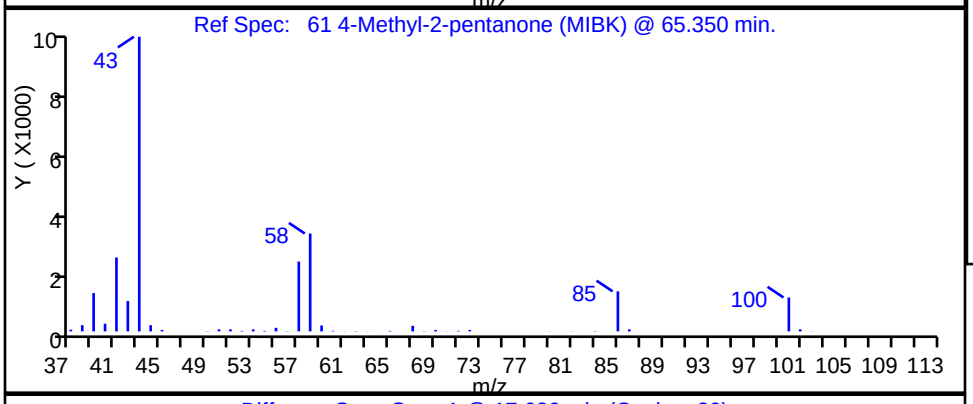
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

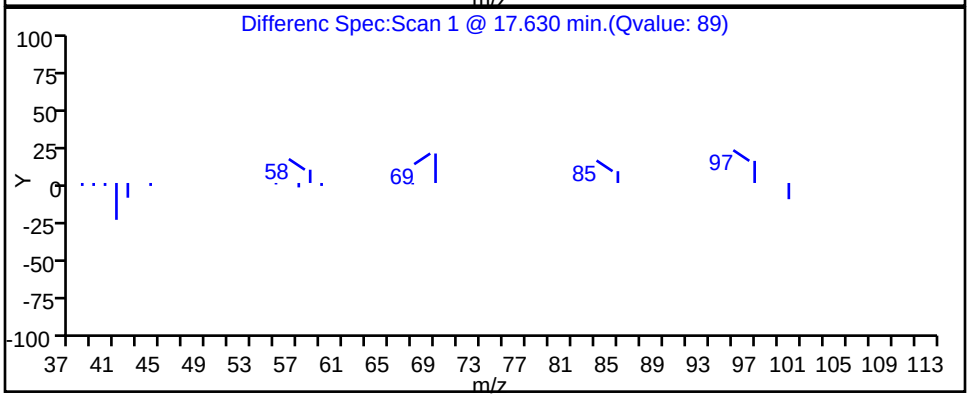












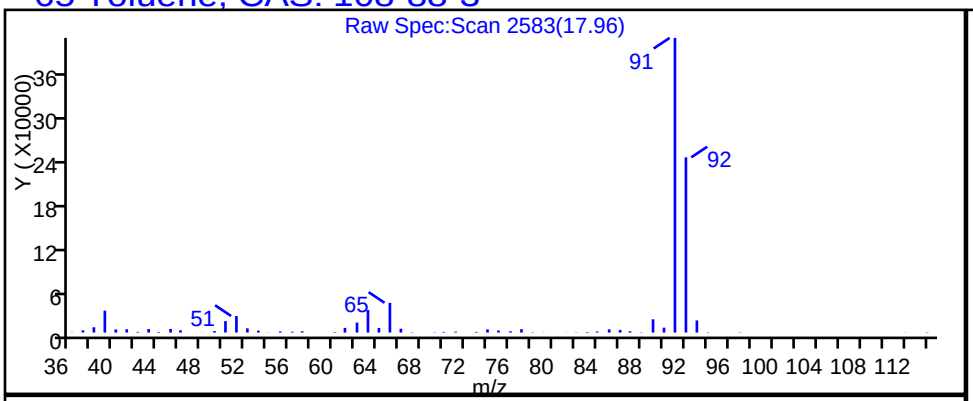
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

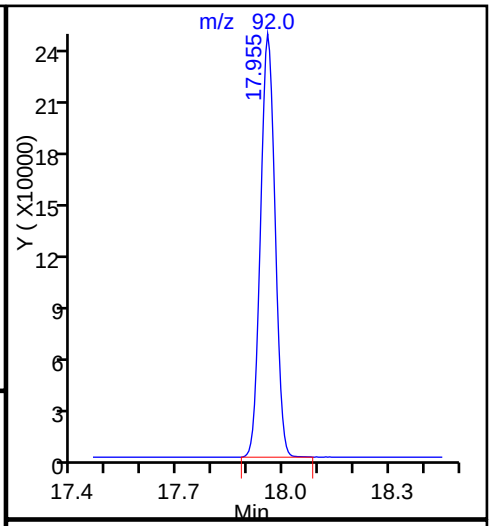
TestAmerica Burlington

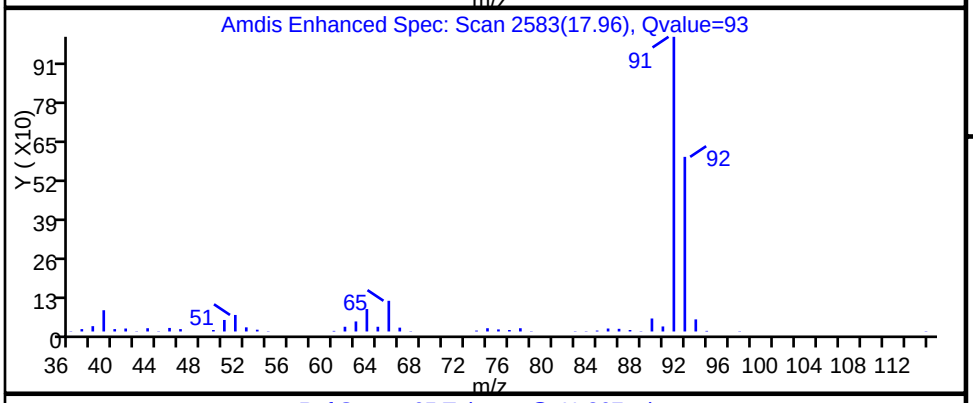
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

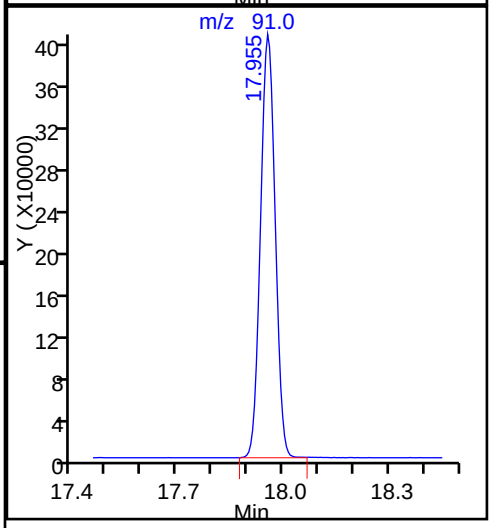
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

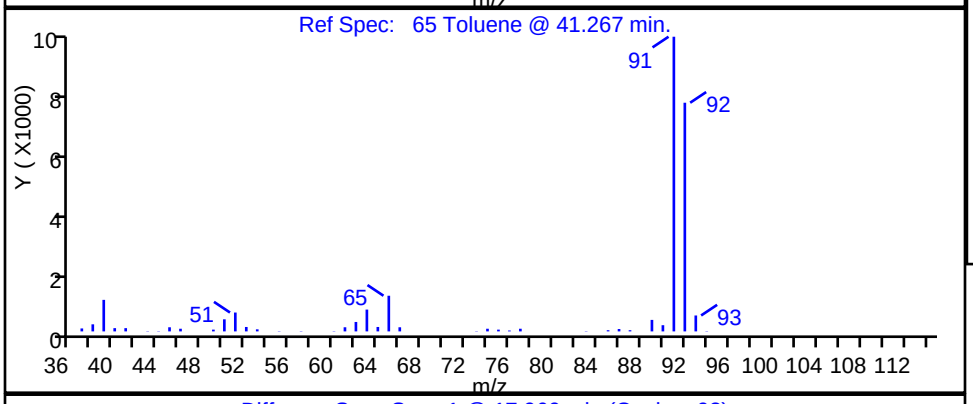
65 Toluene, CAS: 108-88-3

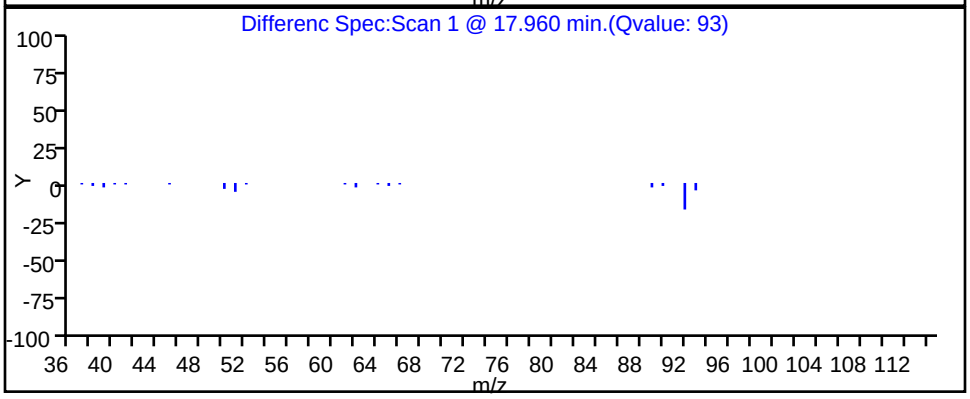












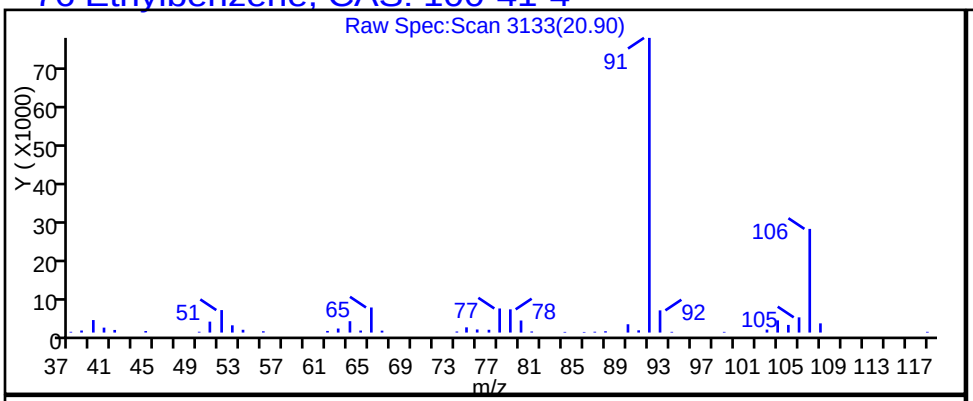
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

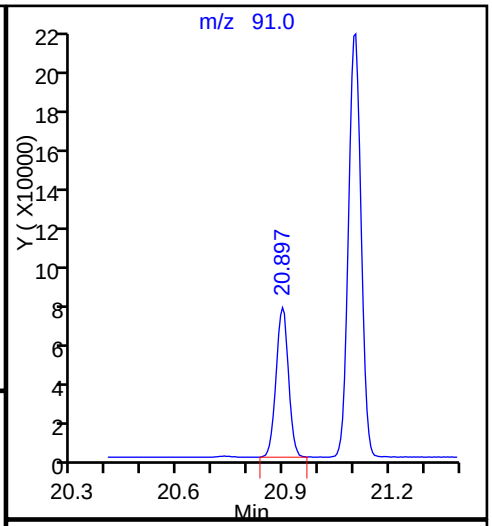
TestAmerica Burlington

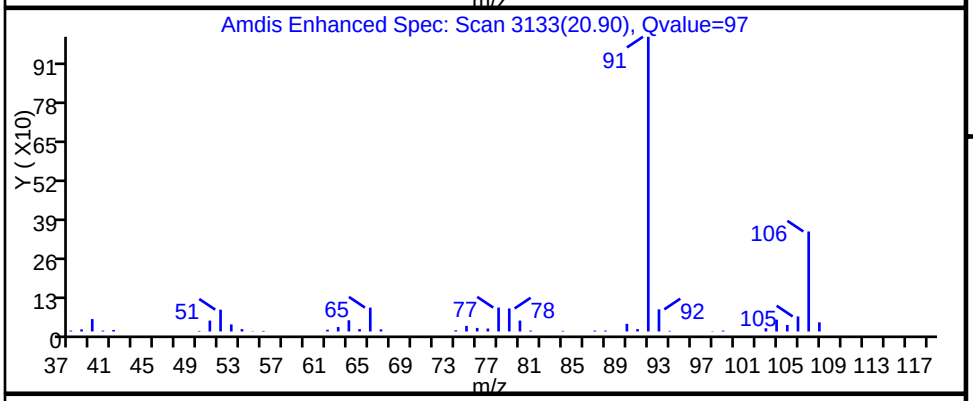
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

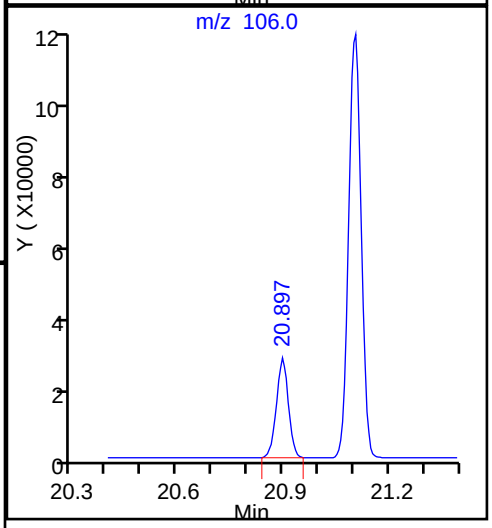
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

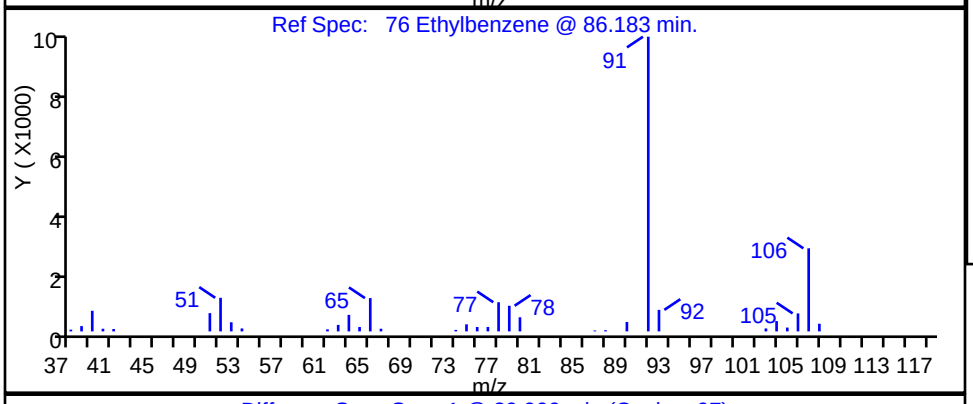
76 Ethylbenzene, CAS: 100-41-4

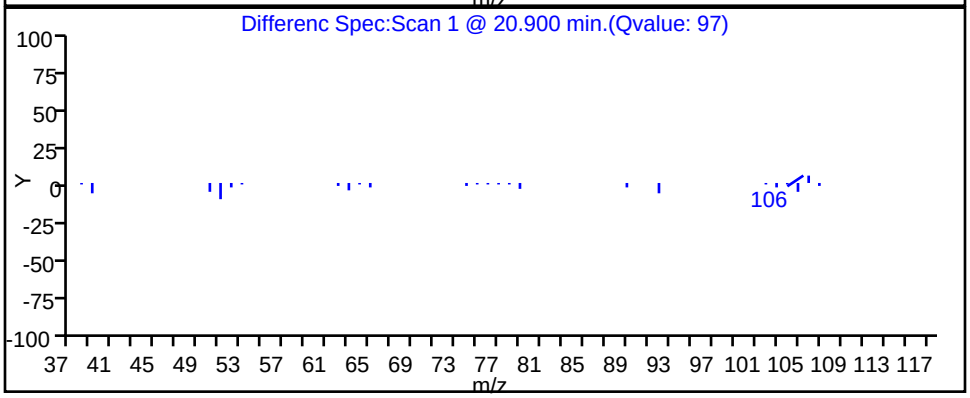










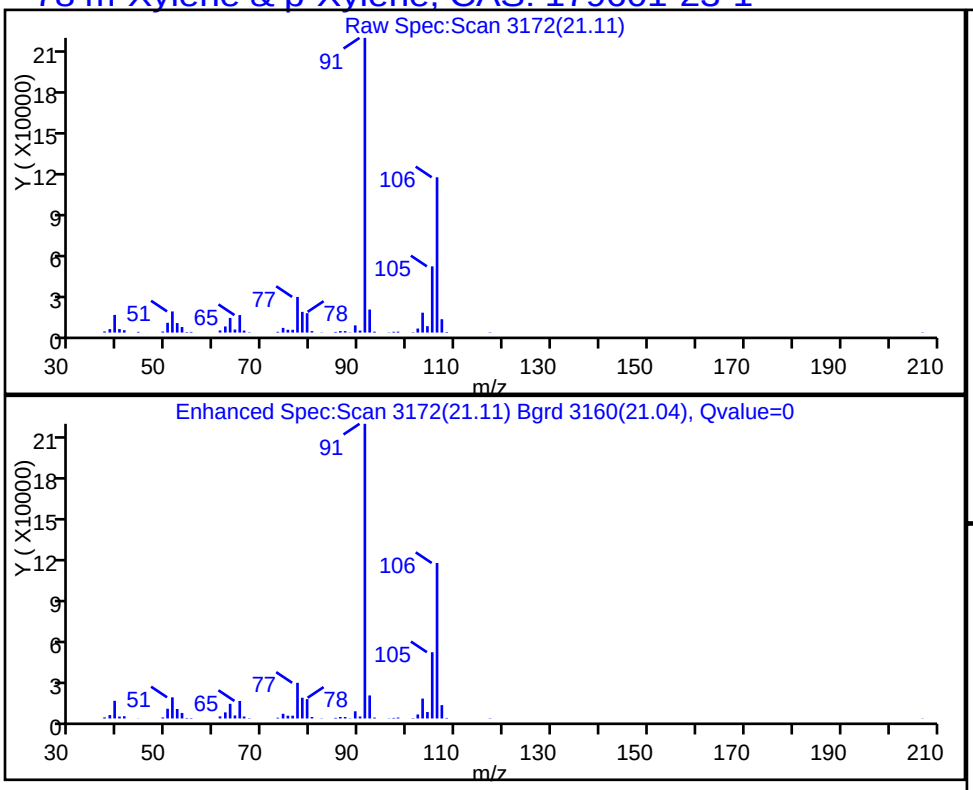


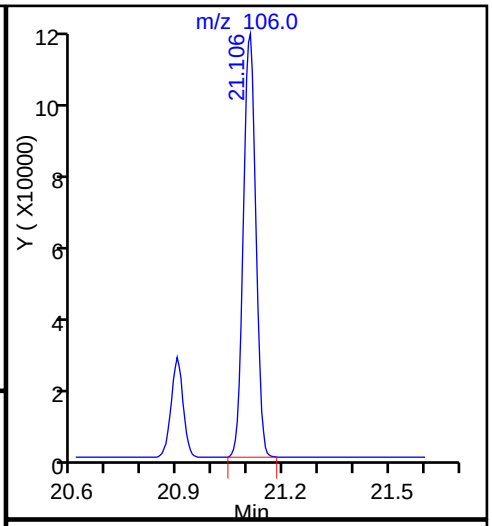
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

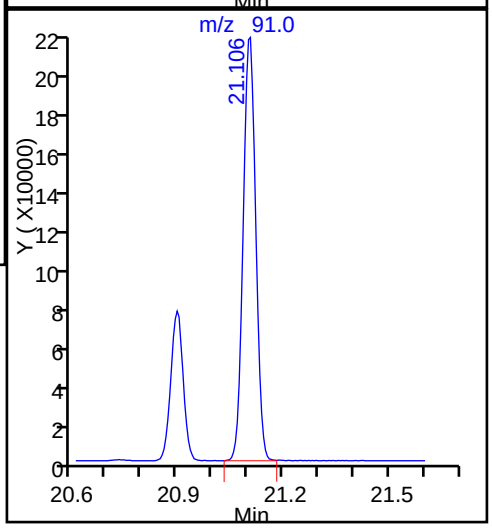
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







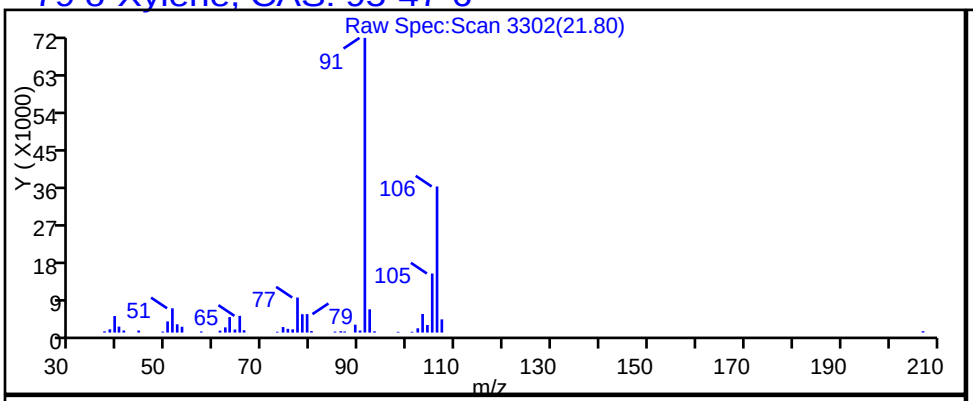
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

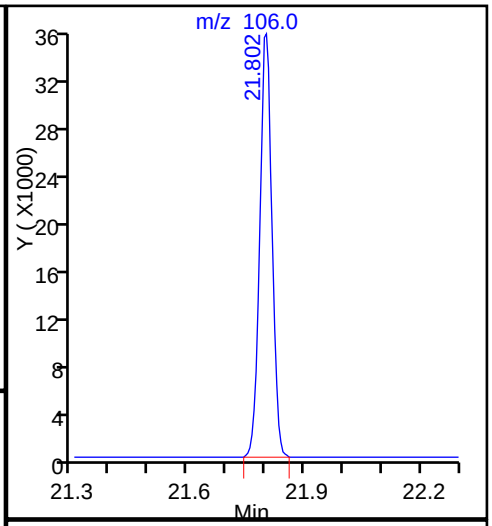
TestAmerica Burlington

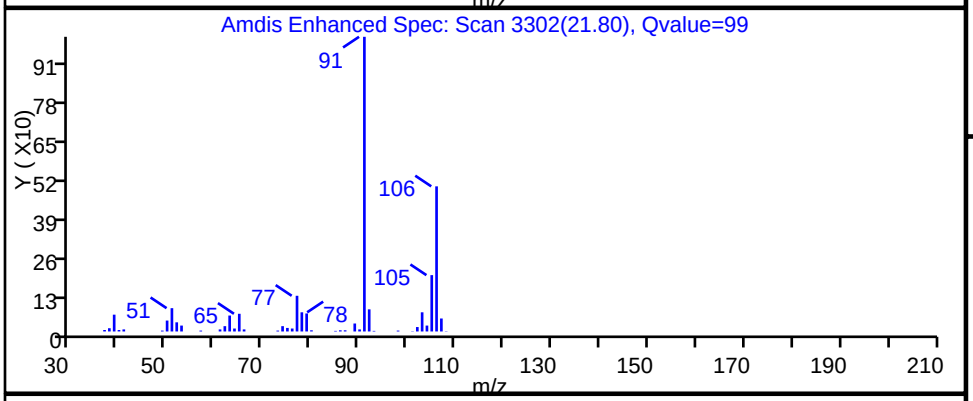
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

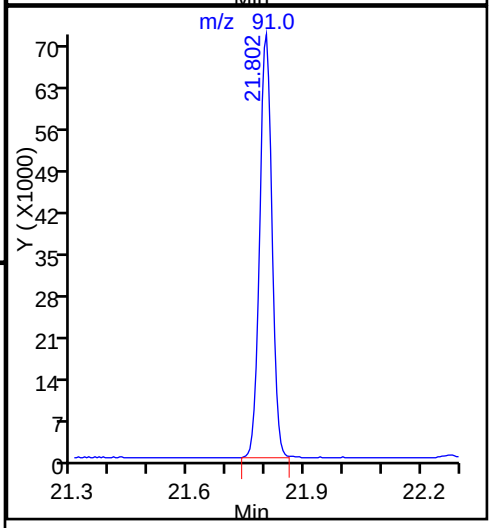
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

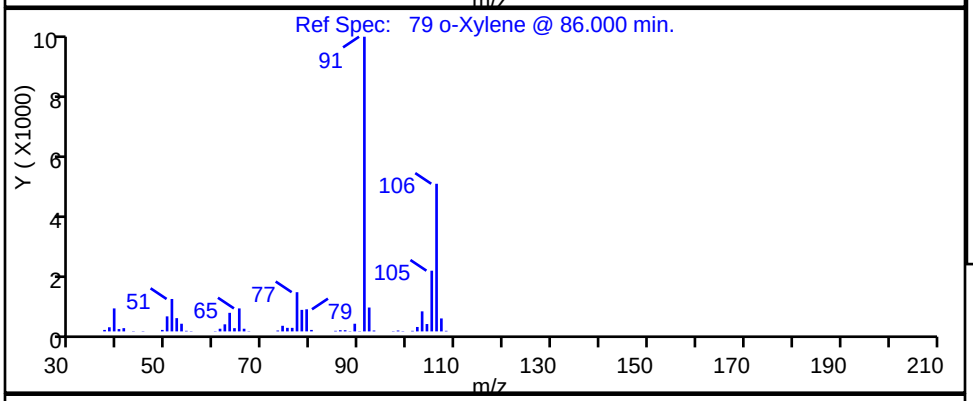
79 o-Xylene, CAS: 95-47-6

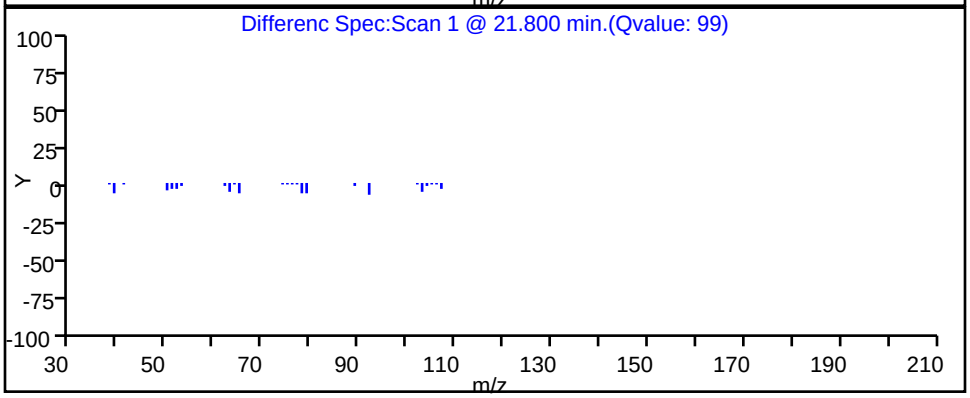












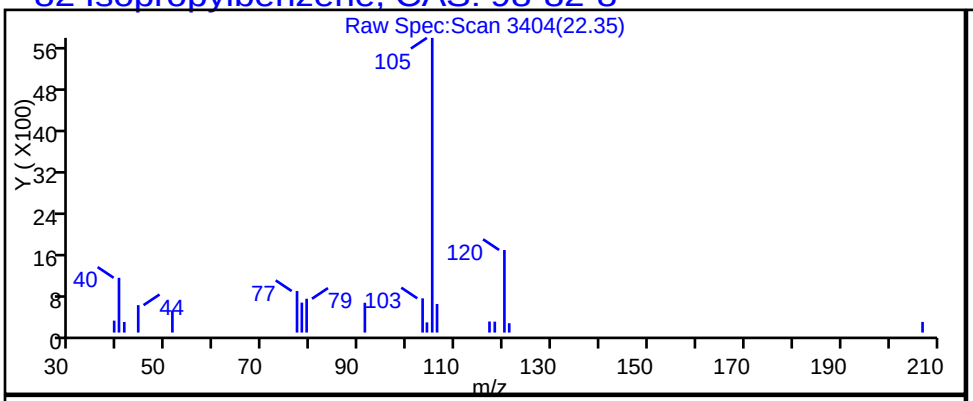
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

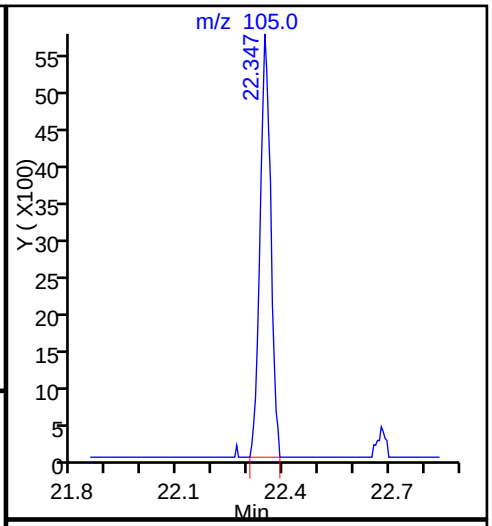
TestAmerica Burlington

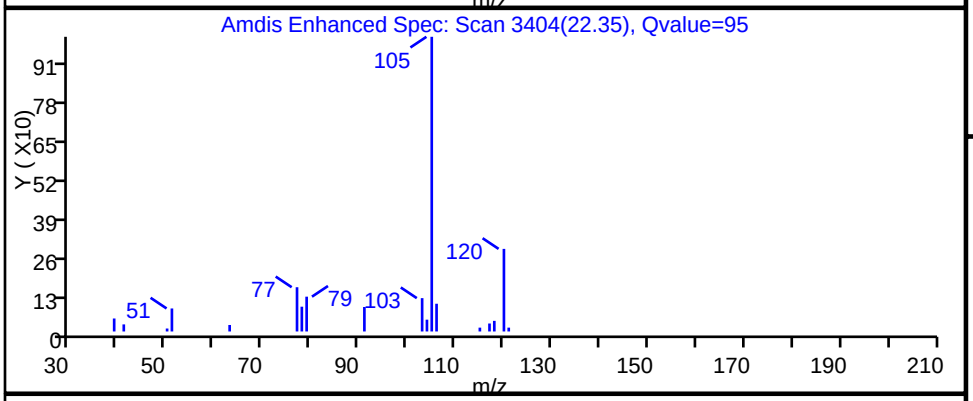
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

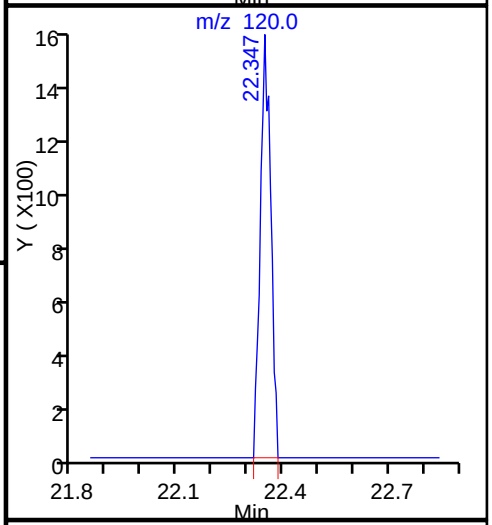
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

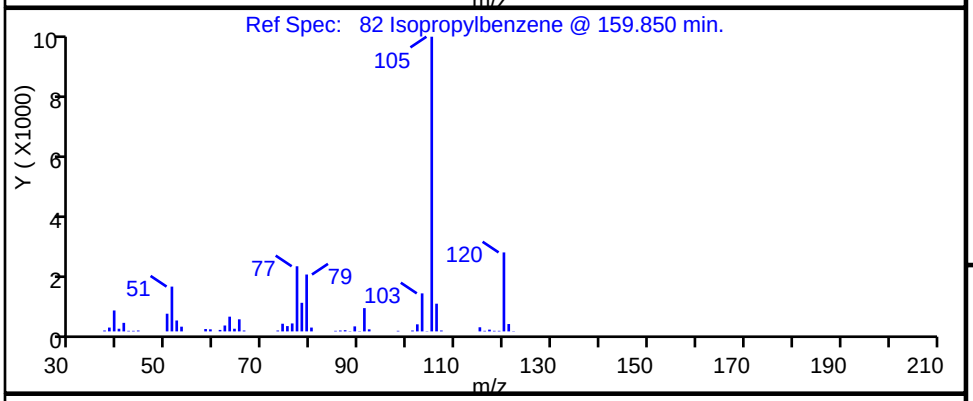
82 Isopropylbenzene, CAS: 98-82-8

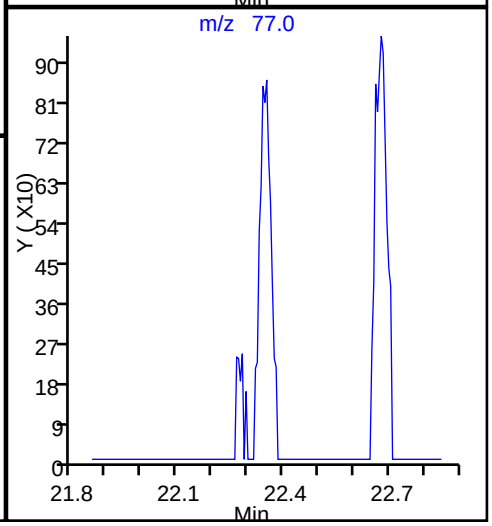


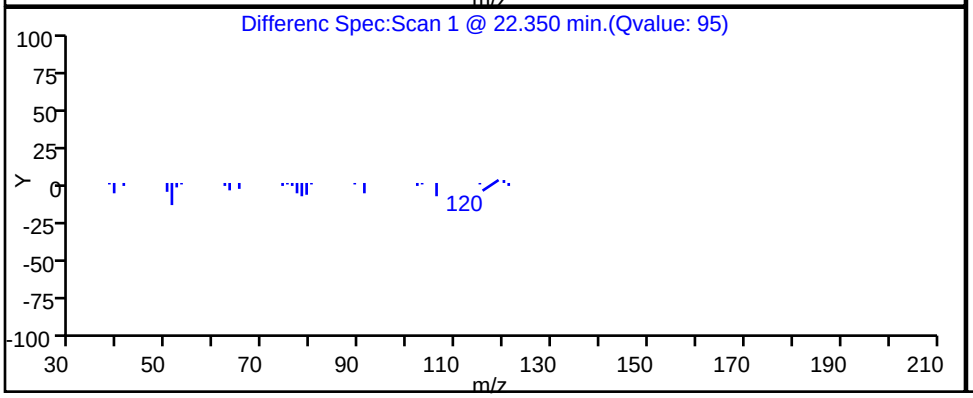












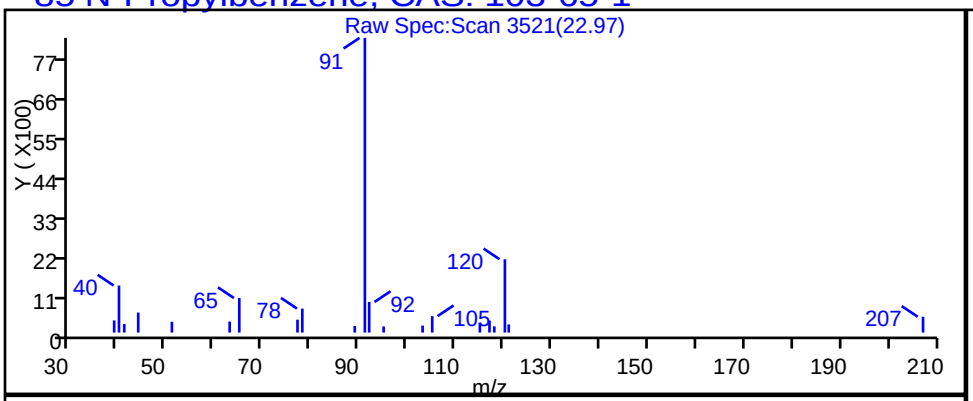
Report Date: 30-Sep-2015 14:18:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

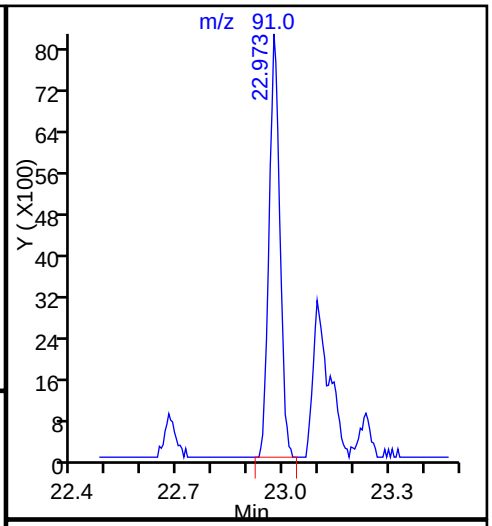
TestAmerica Burlington

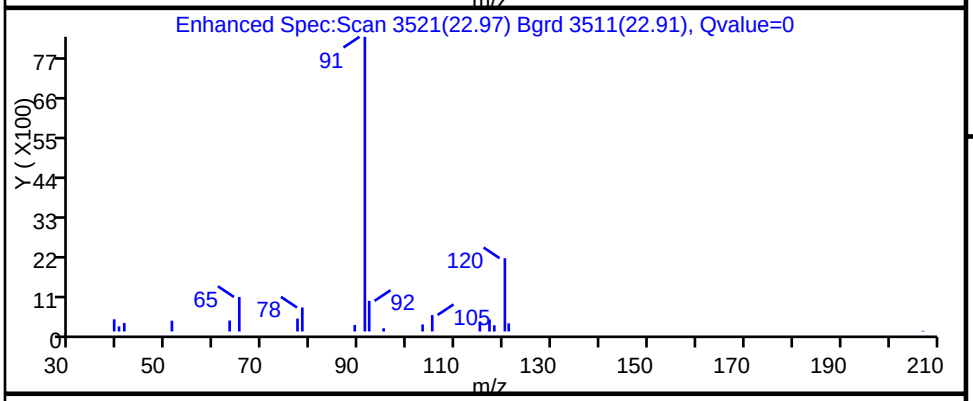
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d

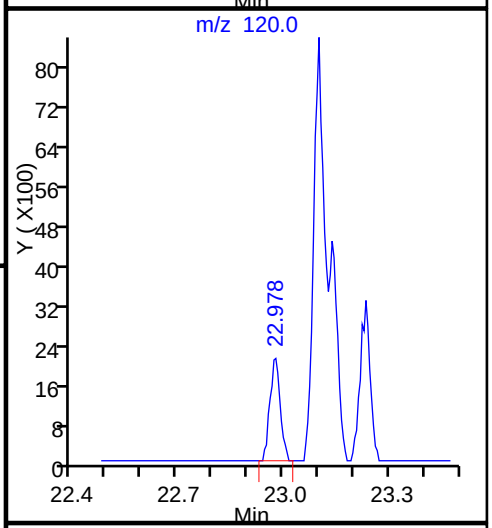
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

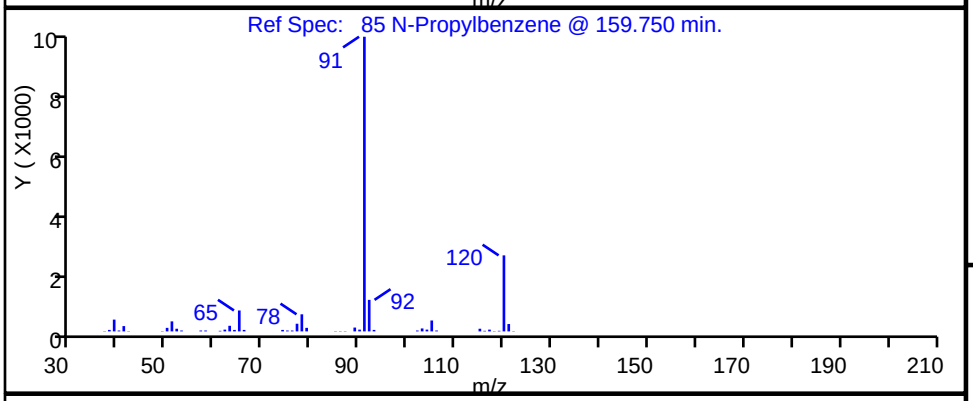
85 N-Propylbenzene, CAS: 103-65-1

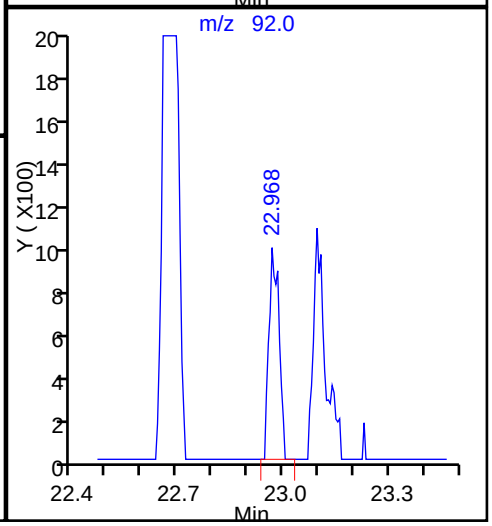


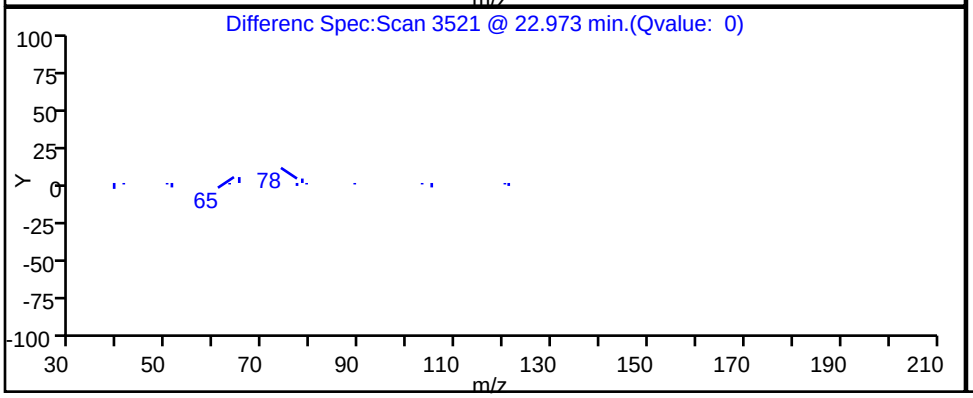










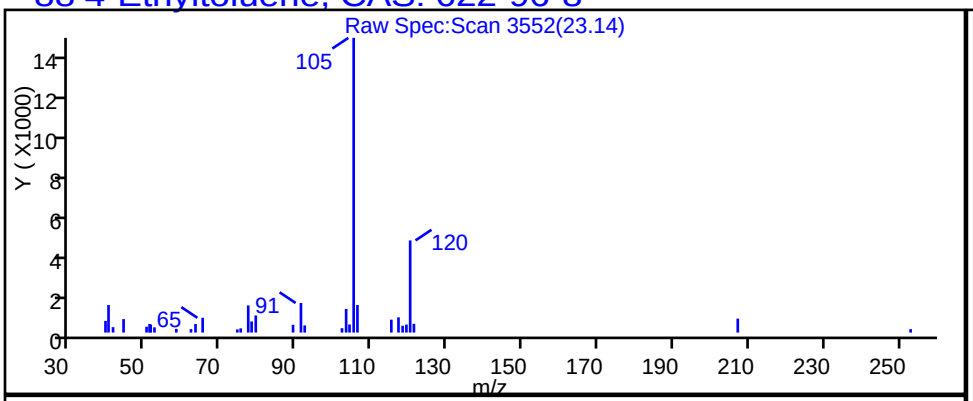


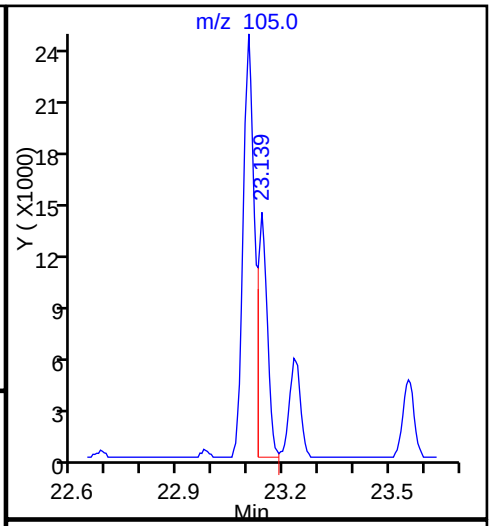
Report Date: 30-Sep-2015 14:18:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

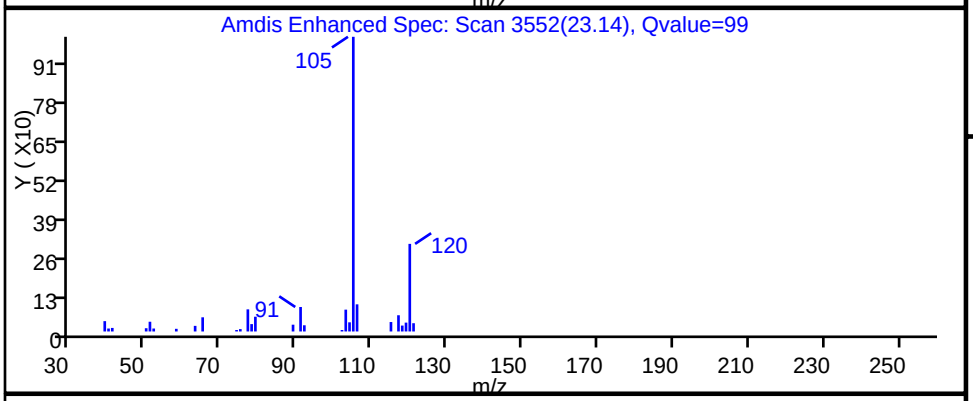
TestAmerica Burlington

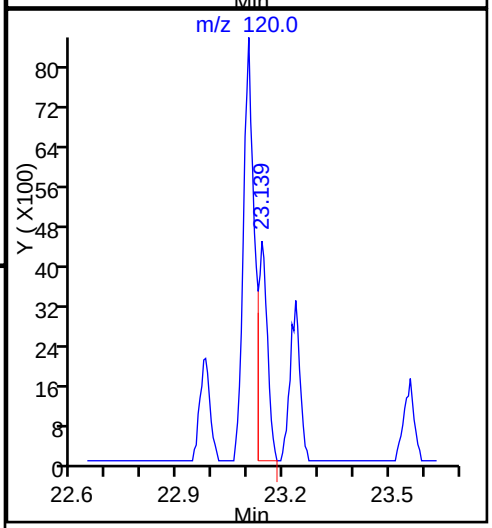
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

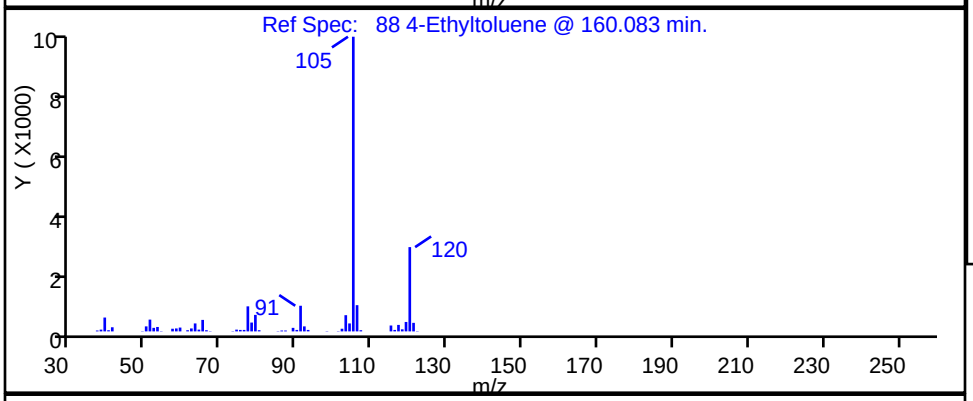
88 4-Ethyltoluene, CAS: 622-96-8

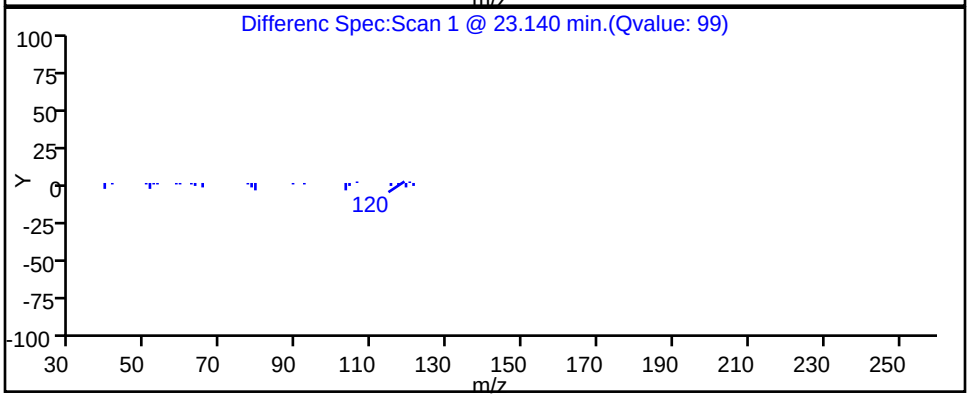










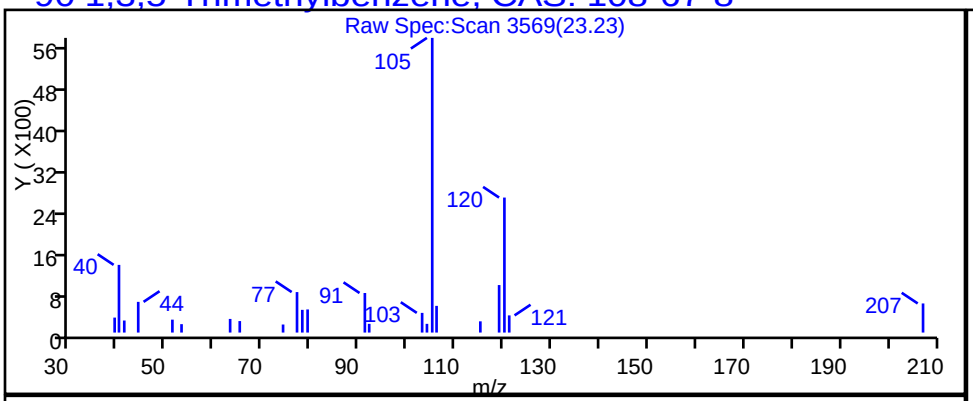


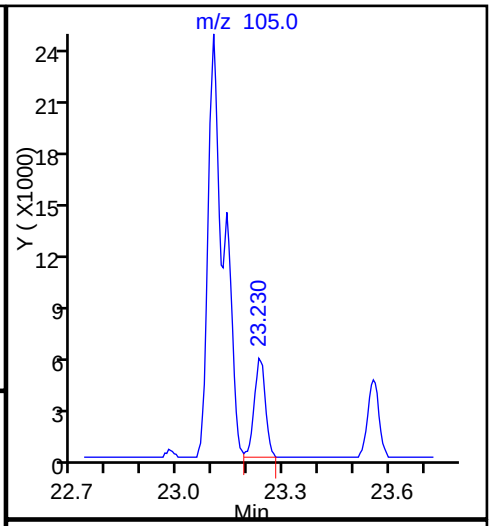
Report Date: 30-Sep-2015 14:18:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

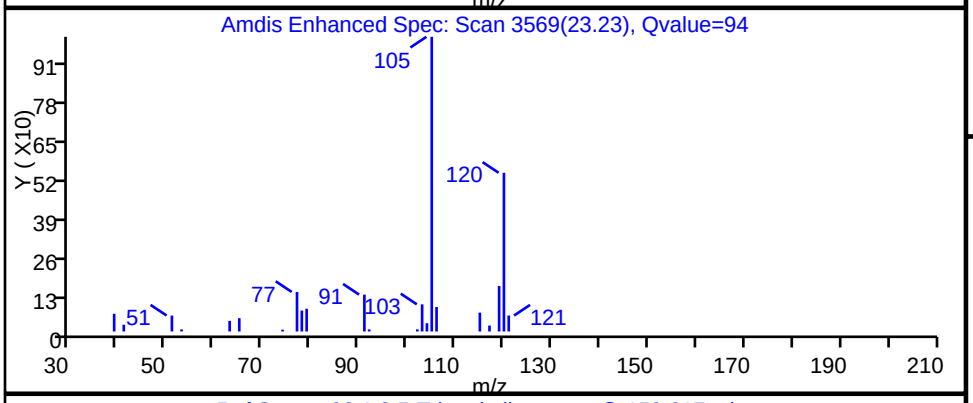
TestAmerica Burlington

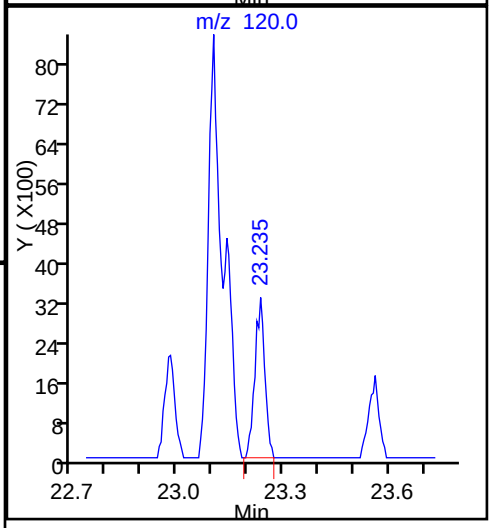
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

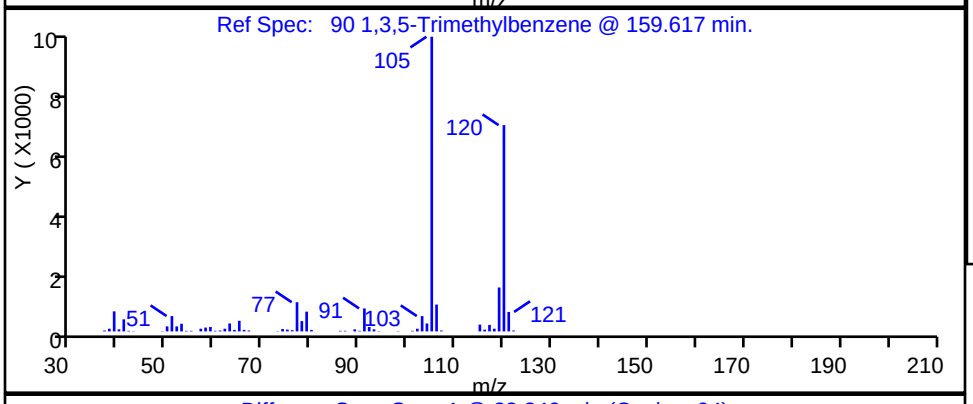
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

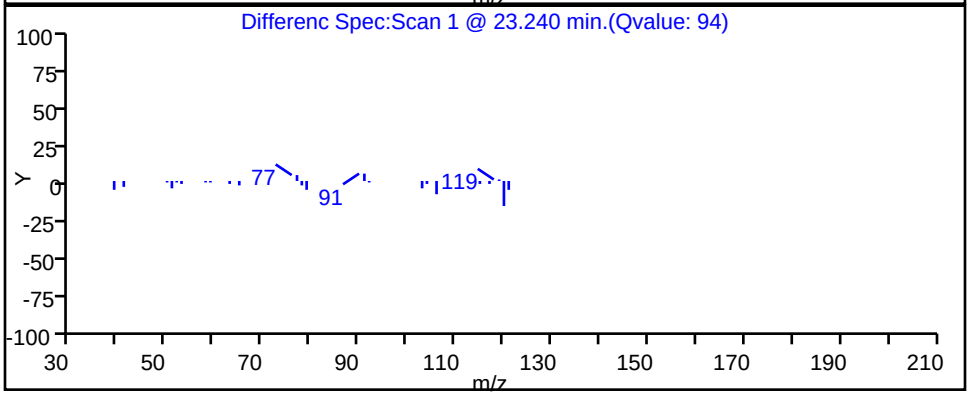










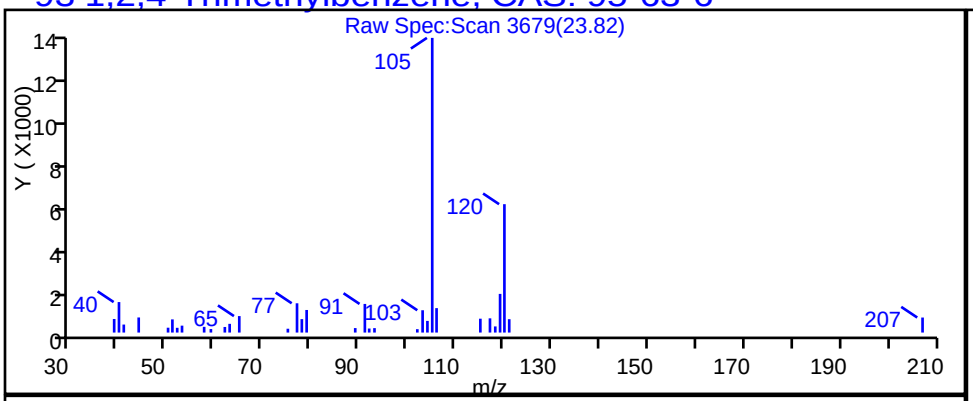


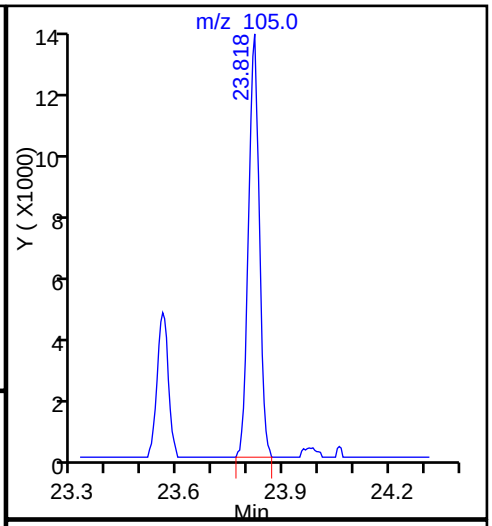
Report Date: 30-Sep-2015 14:18:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

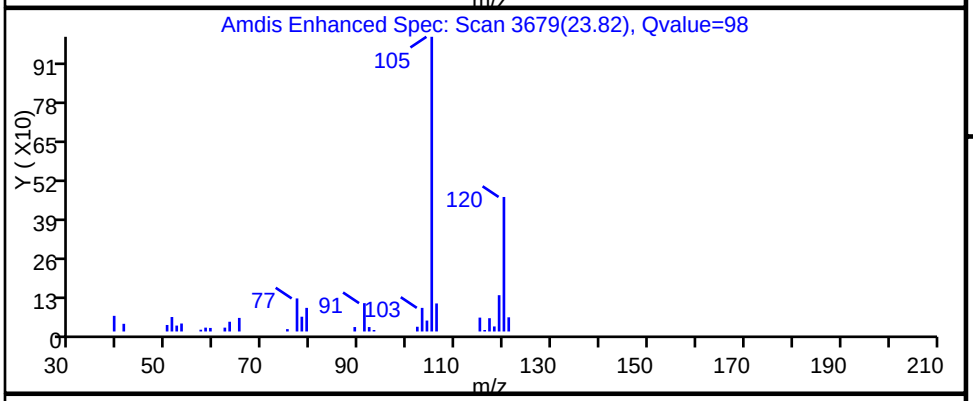
TestAmerica Burlington

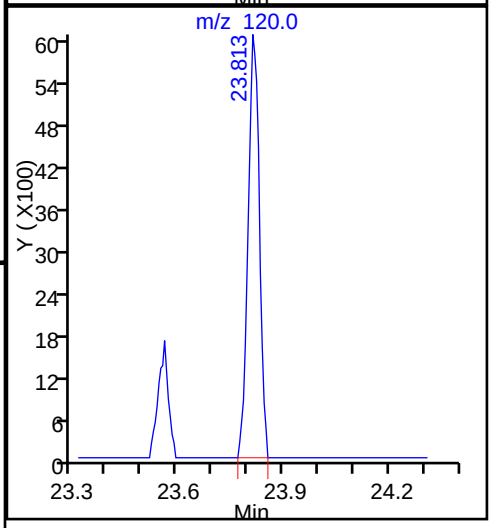
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

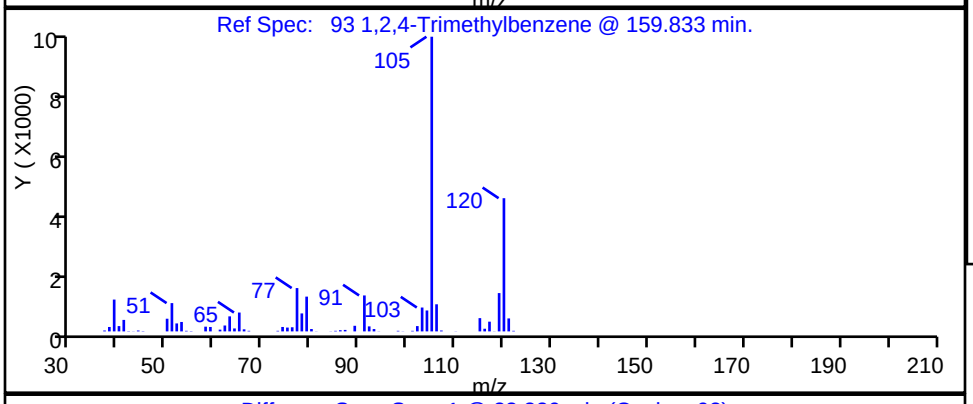
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

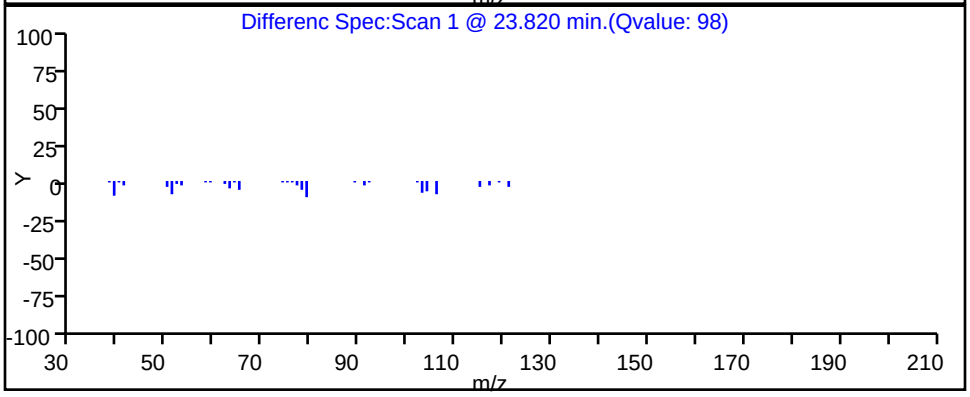












Manual Integration/User Assign Peak Report

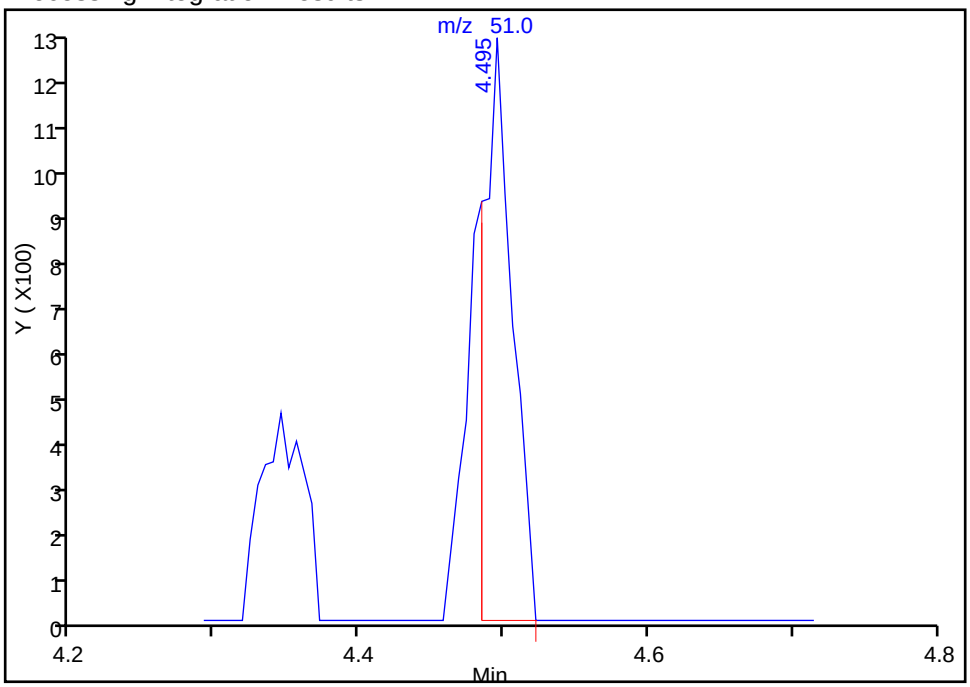
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6

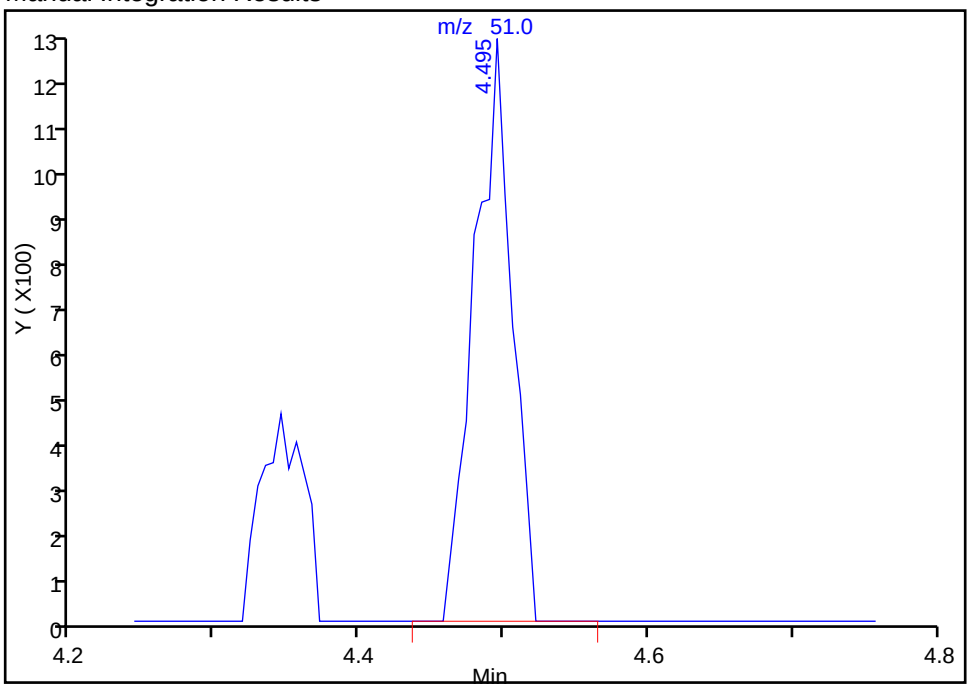
Processing Integration Results

RT: 4.50
Area: 1747
Amount: 0.110010
Amount Units: ppb v/v



Manual Integration Results

RT: 4.50
Area: 2308
Amount: 0.145336
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:22:46
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

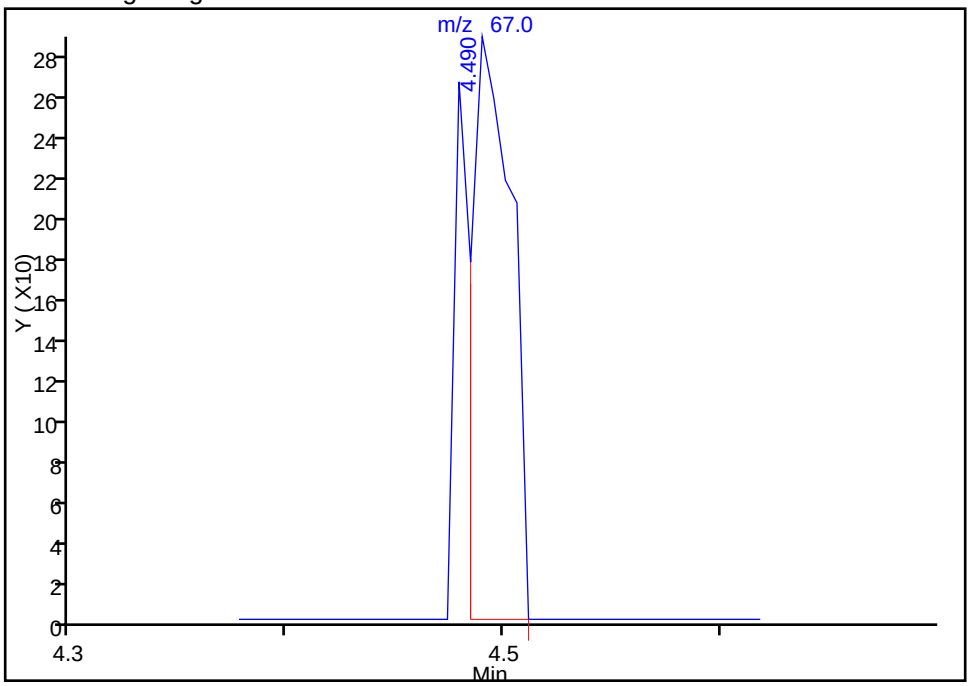
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6

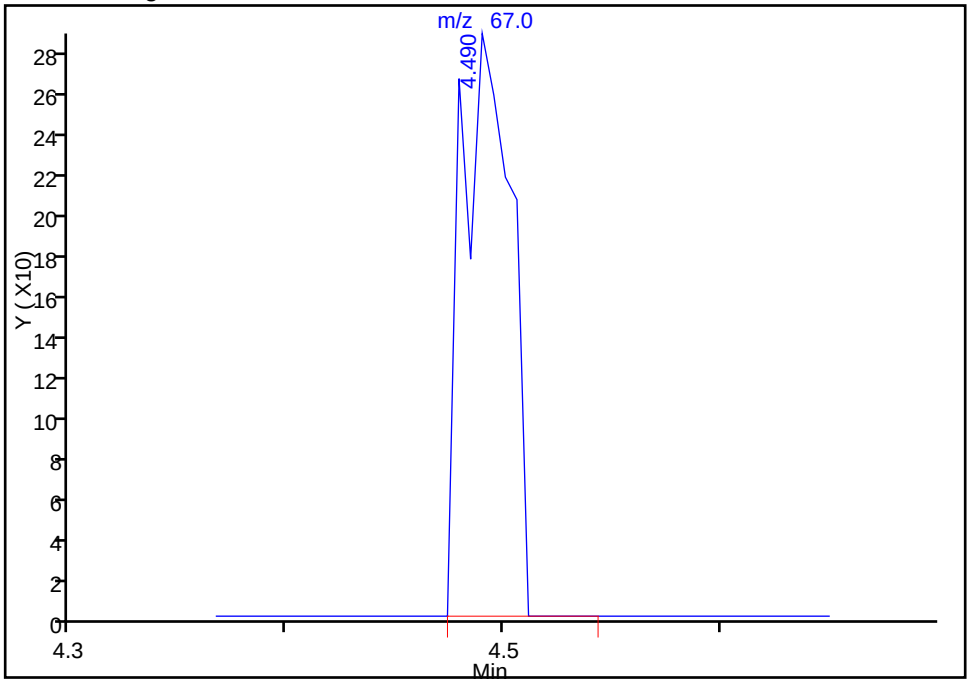
Processing Integration Results

RT: 4.49
Area: 362
Amount: 0.110010
Amount Units: ppb v/v



Manual Integration Results

RT: 4.49
Area: 447
Amount: 0.145336
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:22:46
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

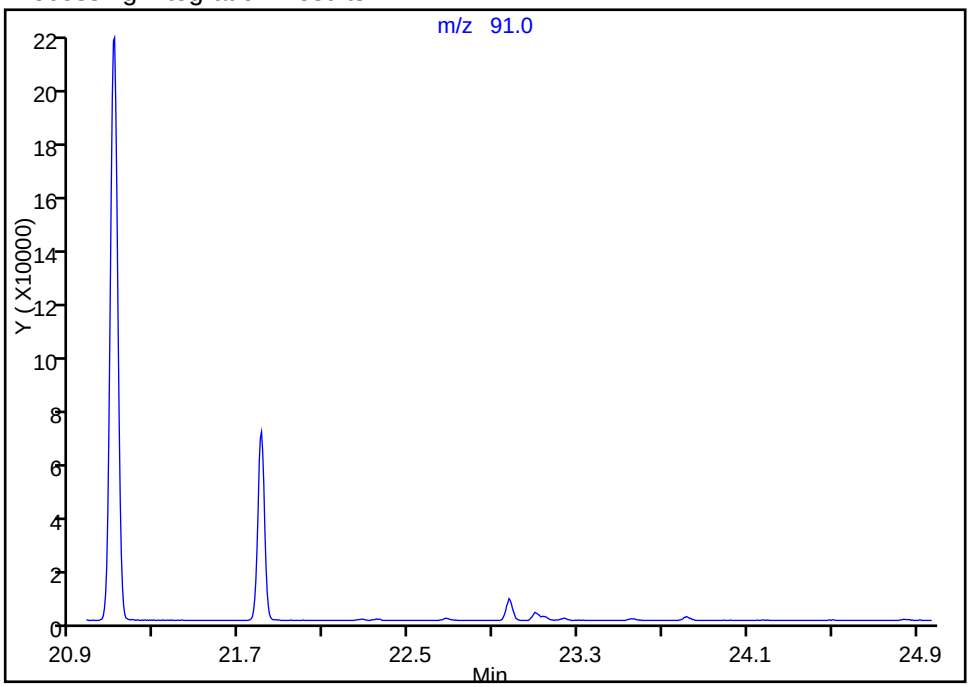
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1

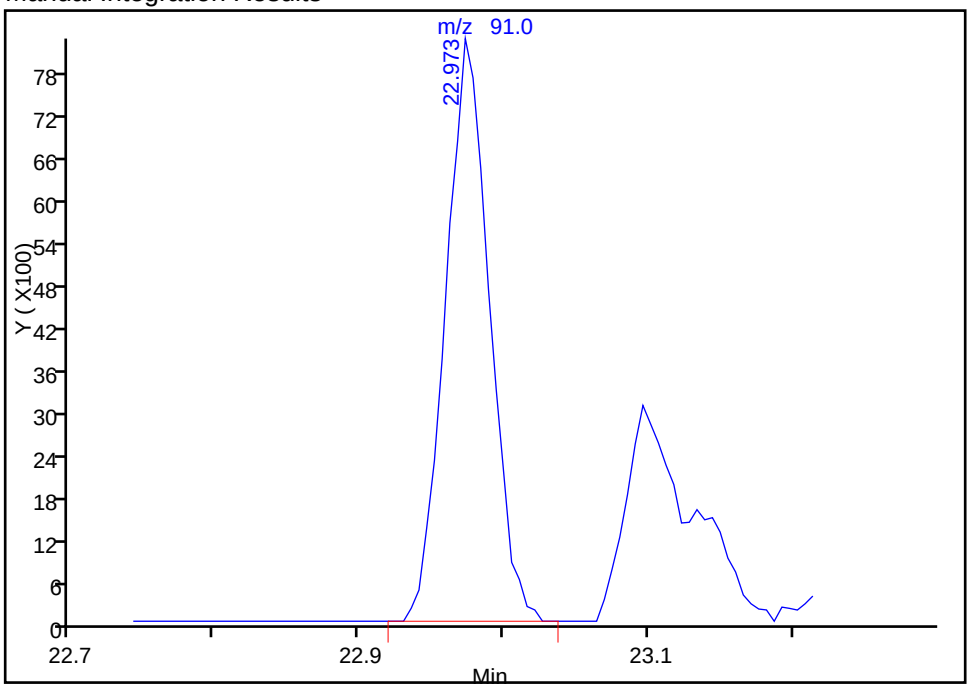
Not Detected
Expected RT: 22.97

Processing Integration Results



Manual Integration Results

RT: 22.97
Area: 17437
Amount: 0.147146
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:22:46
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

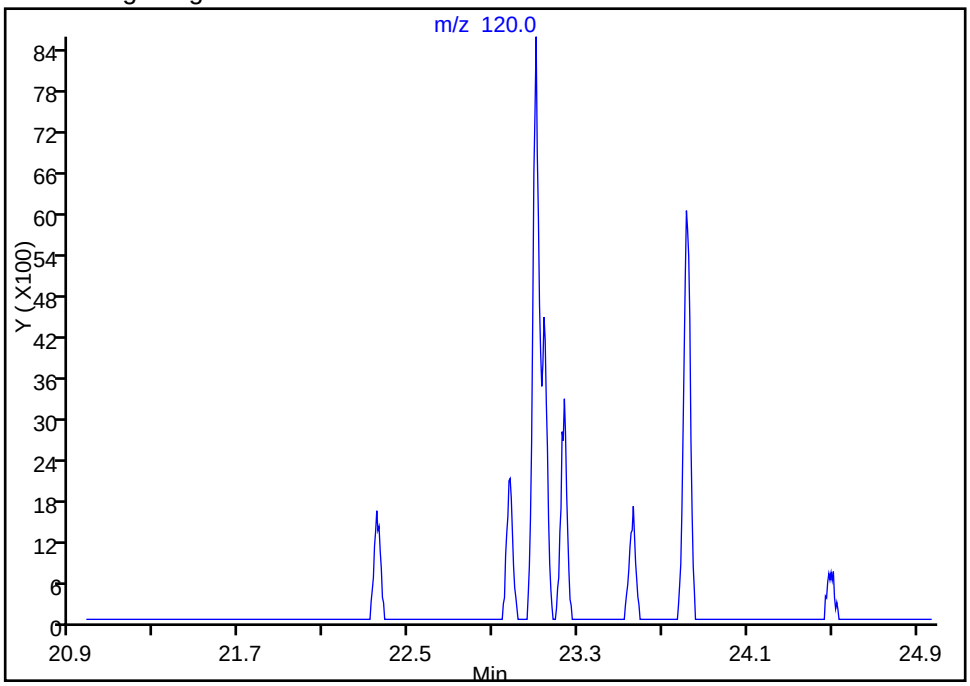
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1

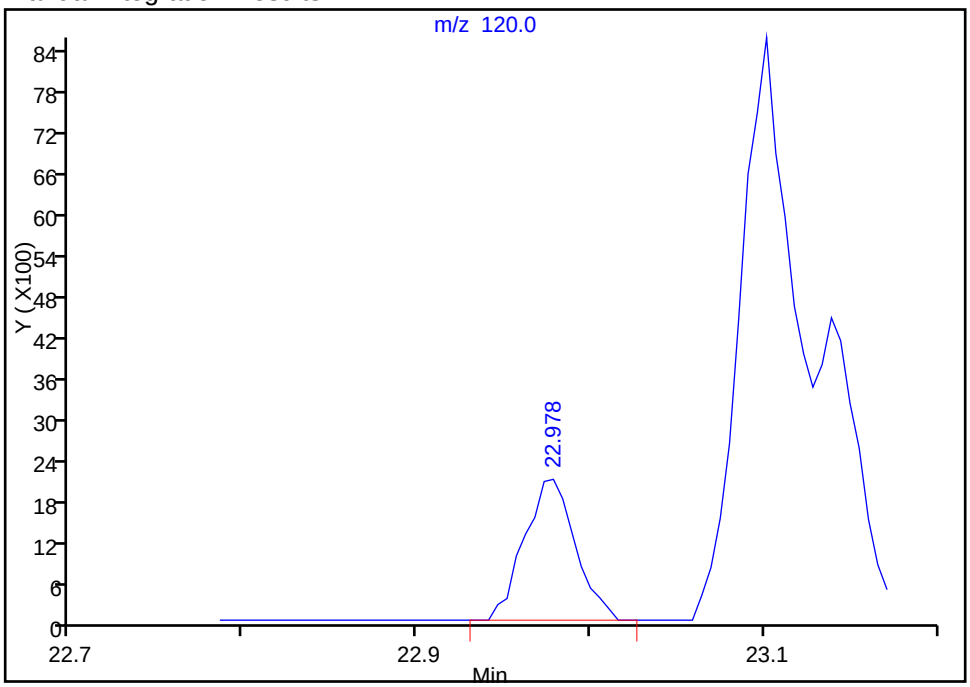
Not Detected
Expected RT: 22.97

Processing Integration Results



Manual Integration Results

RT: 22.98
Area: 4250
Amount: 0.147146
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:22:46
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

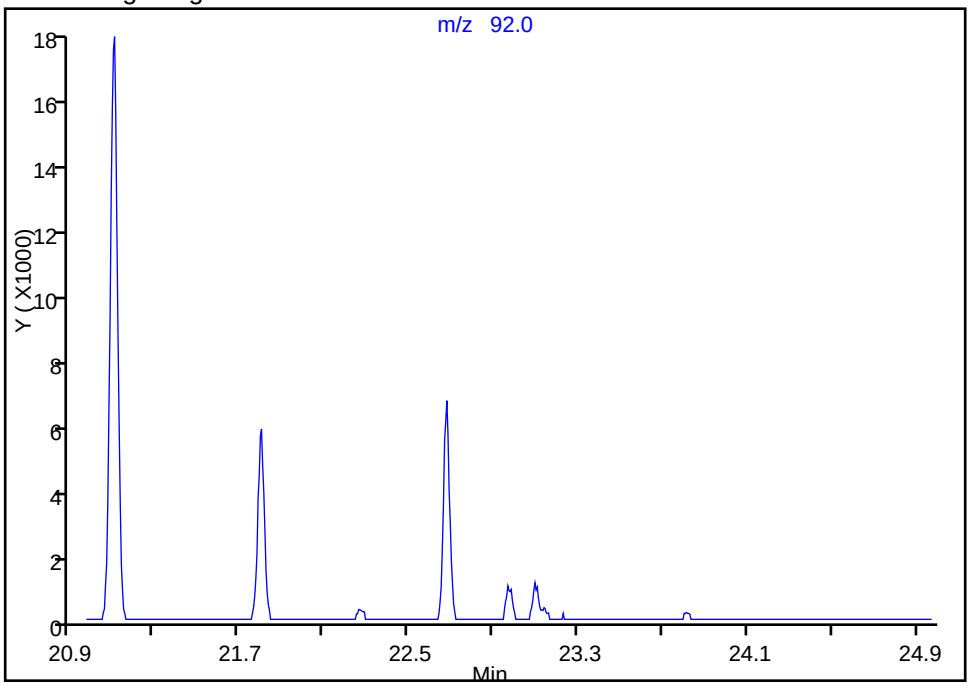
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_024.d				
Injection Date:	30-Sep-2015 05:30:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-2	Lab Sample ID:	200-29972-2		
Client ID:	FR-IA01-092315				
Operator ID:	pad	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

85 N-Propylbenzene, CAS: 103-65-1

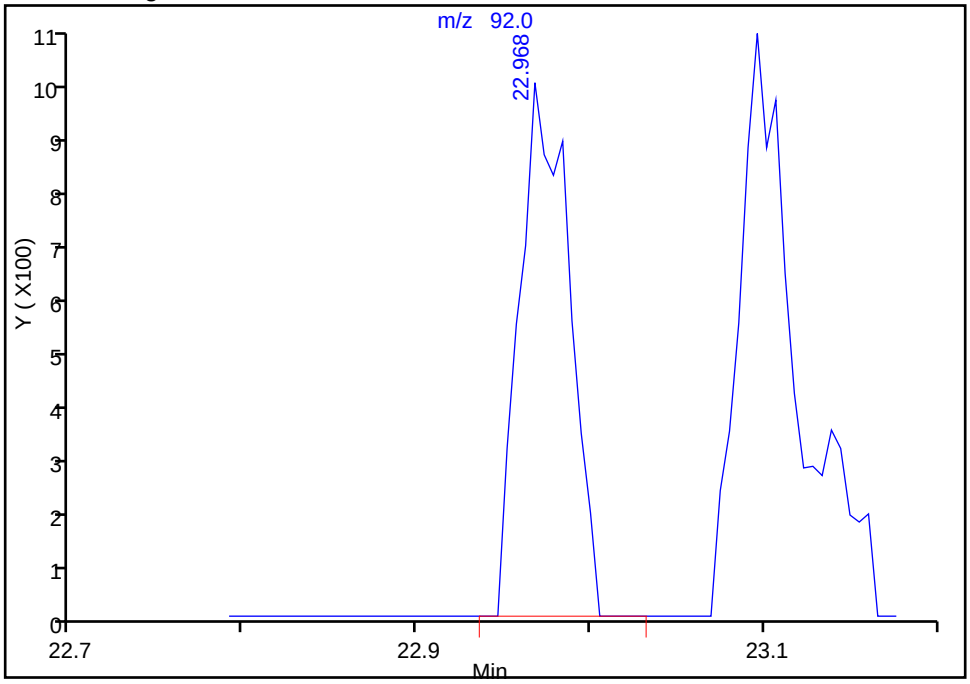
Processing Integration Results

Not Detected
Expected RT: 22.97



Manual Integration Results

RT: 22.97
Area: 1972
Amount: 0.147146
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:22:46
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS02-092315 | Lab Sample ID: 200-29972-3

Matrix: Air | Lab File ID: 16087_19.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 50(mL) | Date Analyzed: 10/05/2015 23:27

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.44	J	2.0	0.32
75-45-6	Freon 22	86.47	2.0	U	2.0	0.23
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.80	U	0.80	0.15
74-87-3	Chloromethane	50.49	2.0	U	2.0	0.37
106-97-8	n-Butane	58.12	4.7		2.0	0.31
75-01-4	Vinyl chloride	62.50	0.16	U	0.16	0.13
106-99-0	1,3-Butadiene	54.09	0.80	U	0.80	0.36
74-83-9	Bromomethane	94.94	0.80	U	0.80	0.22
75-00-3	Chloroethane	64.52	2.0	U	2.0	0.34
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.80	U	0.80	0.18
75-69-4	Trichlorofluoromethane	137.37	1.0		0.80	0.15
76-13-1	Freon TF	187.38	0.80	U	0.80	0.30
75-35-4	1,1-Dichloroethene	96.94	0.80	U	0.80	0.14
67-64-1	Acetone	58.08	7.1	J	20	3.4
67-63-0	Isopropyl alcohol	60.10	20	U	20	3.9
75-15-0	Carbon disulfide	76.14	1.6	J	2.0	0.17
107-05-1	3-Chloropropene	76.53	2.0	U	2.0	0.27
75-09-2	Methylene Chloride	84.93	2.0	U	2.0	0.72
75-65-0	tert-Butyl alcohol	74.12	20	U	20	3.4
1634-04-4	Methyl tert-butyl ether	88.15	0.80	U	0.80	0.36
156-60-5	trans-1,2-Dichloroethene	96.94	0.80	U	0.80	0.17
110-54-3	n-Hexane	86.17	0.89		0.80	0.22
75-34-3	1,1-Dichloroethane	98.96	0.80	U	0.80	0.10
78-93-3	Methyl Ethyl Ketone	72.11	0.60	J	2.0	0.21
156-59-2	cis-1,2-Dichloroethene	96.94	0.80	U	0.80	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	3.5		0.80	0.33
109-99-9	Tetrahydrofuran	72.11	20	U	20	5.6
71-55-6	1,1,1-Trichloroethane	133.41	0.75	J	0.80	0.18
110-82-7	Cyclohexane	84.16	0.37	J	0.80	0.16
56-23-5	Carbon tetrachloride	153.81	0.16	U	0.16	0.13
540-84-1	2,2,4-Trimethylpentane	114.23	0.80	U	0.80	0.16
71-43-2	Benzene	78.11	0.84		0.80	0.17
107-06-2	1,2-Dichloroethane	98.96	0.80	U	0.80	0.16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS02-092315 Lab Sample ID: 200-29972-3

Matrix: Air Lab File ID: 16087_19.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 50(mL) Date Analyzed: 10/05/2015 23:27

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.68	J	0.80	0.16
79-01-6	Trichloroethene	131.39	63		0.16	0.16
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.80	U	0.80	0.11
123-91-1	1,4-Dioxane	88.11	20	U	20	2.2
75-27-4	Bromodichloromethane	163.83	0.85		0.80	0.12
10061-01-5	cis-1,3-Dichloropropene	110.97	0.80	U	0.80	0.092
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	2.8		0.80	0.37
10061-02-6	trans-1,3-Dichloropropene	110.97	0.80	U	0.80	0.14
79-00-5	1,1,2-Trichloroethane	133.41	0.80	U	0.80	0.16
127-18-4	Tetrachloroethene	165.83	0.51	J	0.80	0.092
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	0.80	U	0.80	0.18
106-93-4	1,2-Dibromoethane	187.87	0.80	U	0.80	0.16
108-90-7	Chlorobenzene	112.56	0.80	U	0.80	0.20
100-41-4	Ethylbenzene	106.17	0.32	J	0.80	0.13
179601-23-1	m,p-Xylene	106.17	1.4	J	2.0	0.28
95-47-6	Xylene, o-	106.17	0.50	J	0.80	0.15
1330-20-7	Xylene (total)	106.17	1.9	J	2.8	0.15
100-42-5	Styrene	104.15	0.80	U	0.80	0.17
75-25-2	Bromoform	252.75	0.80	U	0.80	0.22
98-82-8	Cumene	120.19	0.80	U	0.80	0.12
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.80	U	0.80	0.18
103-65-1	n-Propylbenzene	120.19	0.80	U	0.80	0.17
622-96-8	4-Ethyltoluene	120.20	0.80	U	0.80	0.18
108-67-8	1,3,5-Trimethylbenzene	120.20	0.25	J	0.80	0.16
95-49-8	2-Chlorotoluene	126.59	0.80	U	0.80	0.13
98-06-6	tert-Butylbenzene	134.22	0.80	U	0.80	0.18
95-63-6	1,2,4-Trimethylbenzene	120.20	0.65	J	0.80	0.17
135-98-8	sec-Butylbenzene	134.22	0.80	U	0.80	0.18
99-87-6	4-Isopropyltoluene	134.22	0.80	U	0.80	0.15
541-73-1	1,3-Dichlorobenzene	147.00	0.80	U	0.80	0.22
106-46-7	1,4-Dichlorobenzene	147.00	0.80	U	0.80	0.23

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS02-092315 Lab Sample ID: 200-29972-3

Matrix: Air Lab File ID: 16087_19.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 50(mL) Date Analyzed: 10/05/2015 23:27

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.80	U	0.80	0.21
104-51-8	n-Butylbenzene	134.22	0.80	U	0.80	0.19
95-50-1	1,2-Dichlorobenzene	147.00	0.80	U	0.80	0.22
120-82-1	1,2,4-Trichlorobenzene	181.45	2.0	U	2.0	0.27
87-68-3	Hexachlorobutadiene	260.76	0.80	U	0.80	0.33
91-20-3	Naphthalene	128.17	2.0	U	2.0	0.23

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS02-092315 | Lab Sample ID: 200-29972-3

Matrix: Air | Lab File ID: 16087_19.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 50(mL) | Date Analyzed: 10/05/2015 23:27

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.2	J	9.9	1.6
75-45-6	Freon 22	86.47	7.1	U	7.1	0.81
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	5.6	U	5.6	1.1
74-87-3	Chloromethane	50.49	4.1	U	4.1	0.77
106-97-8	n-Butane	58.12	11		4.8	0.74
75-01-4	Vinyl chloride	62.50	0.41	U	0.41	0.33
106-99-0	1,3-Butadiene	54.09	1.8	U	1.8	0.79
74-83-9	Bromomethane	94.94	3.1	U	3.1	0.87
75-00-3	Chloroethane	64.52	5.3	U	5.3	0.90
593-60-2	Bromoethene(Vinyl Bromide)	106.96	3.5	U	3.5	0.77
75-69-4	Trichlorofluoromethane	137.37	5.7		4.5	0.85
76-13-1	Freon TF	187.38	6.1	U	6.1	2.3
75-35-4	1,1-Dichloroethene	96.94	3.2	U	3.2	0.57
67-64-1	Acetone	58.08	17	J	48	8.2
67-63-0	Isopropyl alcohol	60.10	49	U	49	9.6
75-15-0	Carbon disulfide	76.14	4.9	J	6.2	0.54
107-05-1	3-Chloropropene	76.53	6.3	U	6.3	0.85
75-09-2	Methylene Chloride	84.93	6.9	U	6.9	2.5
75-65-0	tert-Butyl alcohol	74.12	61	U	61	10
1634-04-4	Methyl tert-butyl ether	88.15	2.9	U	2.9	1.3
156-60-5	trans-1,2-Dichloroethene	96.94	3.2	U	3.2	0.68
110-54-3	n-Hexane	86.17	3.1		2.8	0.76
75-34-3	1,1-Dichloroethane	98.96	3.2	U	3.2	0.40
78-93-3	Methyl Ethyl Ketone	72.11	1.8	J	5.9	0.61
156-59-2	cis-1,2-Dichloroethene	96.94	3.2	U	3.2	0.56
540-59-0	1,2-Dichloroethene, Total	96.94	6.3	U	6.3	0.56
67-66-3	Chloroform	119.38	17		3.9	1.6
109-99-9	Tetrahydrofuran	72.11	59	U	59	17
71-55-6	1,1,1-Trichloroethane	133.41	4.1	J	4.4	1.0
110-82-7	Cyclohexane	84.16	1.3	J	2.8	0.54
56-23-5	Carbon tetrachloride	153.81	1.0	U	1.0	0.81
540-84-1	2,2,4-Trimethylpentane	114.23	3.7	U	3.7	0.73
71-43-2	Benzene	78.11	2.7		2.6	0.54
107-06-2	1,2-Dichloroethane	98.96	3.2	U	3.2	0.66

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS02-092315 | Lab Sample ID: 200-29972-3

Matrix: Air | Lab File ID: 16087_19.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 50(mL) | Date Analyzed: 10/05/2015 23:27

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	2.8	J	3.3	0.66
79-01-6	Trichloroethene	131.39	340		0.86	0.84
80-62-6	Methyl methacrylate	100.12	8.2	U	8.2	0.66
78-87-5	1,2-Dichloropropane	112.99	3.7	U	3.7	0.50
123-91-1	1,4-Dioxane	88.11	72	U	72	8.1
75-27-4	Bromodichloromethane	163.83	5.7		5.4	0.80
10061-01-5	cis-1,3-Dichloropropene	110.97	3.6	U	3.6	0.42
108-10-1	methyl isobutyl ketone	100.16	8.2	U	8.2	0.82
108-88-3	Toluene	92.14	11		3.0	1.4
10061-02-6	trans-1,3-Dichloropropene	110.97	3.6	U	3.6	0.62
79-00-5	1,1,2-Trichloroethane	133.41	4.4	U	4.4	0.85
127-18-4	Tetrachloroethene	165.83	3.5	J	5.4	0.62
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	8.2	U	8.2	0.93
124-48-1	Dibromochloromethane	208.29	6.8	U	6.8	1.5
106-93-4	1,2-Dibromoethane	187.87	6.1	U	6.1	1.2
108-90-7	Chlorobenzene	112.56	3.7	U	3.7	0.90
100-41-4	Ethylbenzene	106.17	1.4	J	3.5	0.57
179601-23-1	m,p-Xylene	106.17	6.0	J	8.7	1.2
95-47-6	Xylene, o-	106.17	2.2	J	3.5	0.64
1330-20-7	Xylene (total)	106.17	8.3	J	12	0.64
100-42-5	Styrene	104.15	3.4	U	3.4	0.73
75-25-2	Bromoform	252.75	8.3	U	8.3	2.3
98-82-8	Cumene	120.19	3.9	U	3.9	0.59
79-34-5	1,1,2,2-Tetrachloroethane	167.85	5.5	U	5.5	1.2
103-65-1	n-Propylbenzene	120.19	3.9	U	3.9	0.85
622-96-8	4-Ethyltoluene	120.20	3.9	U	3.9	0.87
108-67-8	1,3,5-Trimethylbenzene	120.20	1.3	J	3.9	0.77
95-49-8	2-Chlorotoluene	126.59	4.1	U	4.1	0.68
98-06-6	tert-Butylbenzene	134.22	4.4	U	4.4	0.97
95-63-6	1,2,4-Trimethylbenzene	120.20	3.2	J	3.9	0.85
135-98-8	sec-Butylbenzene	134.22	4.4	U	4.4	0.97
99-87-6	4-Isopropyltoluene	134.22	4.4	U	4.4	0.81
541-73-1	1,3-Dichlorobenzene	147.00	4.8	U	4.8	1.3
106-46-7	1,4-Dichlorobenzene	147.00	4.8	U	4.8	1.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS02-092315 Lab Sample ID: 200-29972-3

Matrix: Air Lab File ID: 16087_19.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 50(mL) Date Analyzed: 10/05/2015 23:27

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	4.1	U	4.1	1.1
104-51-8	n-Butylbenzene	134.22	4.4	U	4.4	1.0
95-50-1	1,2-Dichlorobenzene	147.00	4.8	U	4.8	1.3
120-82-1	1,2,4-Trichlorobenzene	181.45	15	U	15	2.0
87-68-3	Hexachlorobutadiene	260.76	8.5	U	8.5	3.5
91-20-3	Naphthalene	128.17	10	U	10	1.2

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D
Lims ID: 200-29972-A-3 Lab Sample ID: 200-29972-3
Client ID: FR-SS02-092315
Sample Type: Client
Inject. Date: 05-Oct-2015 23:27:30 ALS Bottle#: 16 Worklist Smp#: 19
Purge Vol: 200.000 mL Dil. Factor: 4.0000
Sample Info: 200-0016087-019
Misc. Info.: 29972-3
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 10:21:59 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 10:21:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.167	3.172	-0.005	97	3105	0.1092	
3 Chlorodifluoromethane	51		3.226				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50		3.579				ND	
6 Butane	43	3.761	3.771	-0.010	99	15353	1.17	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.243	5.259	-0.016	82	8021	0.2558	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43	6.655	6.612	0.043	88	22616	1.77	
22 Carbon disulfide	76	6.735	6.746	-0.011	97	11799	0.3958	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.409	7.414	-0.005	85	1209	0.1122	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.196	8.212	-0.016	88	3553	0.2221	
33 1,1-Dichloroethane	63		8.709				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72	9.934	9.881	0.053	96	1025	0.1510	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.277	10.282	-0.005	73	146152	10.0	
39 Tetrahydrofuran	42		10.298				ND	
41 Chloroform	83	10.394	10.410	-0.016	100	23941	0.8815	
42 Cyclohexane	84	10.640	10.646	-0.011	59	1861	0.0921	M
43 1,1,1-Trichloroethane	97	10.683	10.678	0.000	76	5480	0.1863	M

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117		10.929				ND	
	45 Isooctane	57		11.368				ND	
	46 Benzene	78	11.400	11.411	-0.011	94	9911	0.2104	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43	11.742	11.753	-0.011	54	3884	0.1708	
*	50 1,4-Difluorobenzene	114	12.251	12.261	-0.010	91	806961	10.0	
	52 Trichloroethene	95	12.732	12.743	-0.011	92	376864	15.9	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83	13.888	13.904	-0.016	90	7134	0.2121	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.193				ND	
	62 Toluene	92	15.471	15.476	-0.005	93	29180	0.7042	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.573	16.579	-0.006	93	5256	0.1274	
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.440	18.446	-0.006	81	813762	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91	18.649	18.649	0.000	95	7144	0.0800	
	77 m-Xylene & p-Xylene	106	18.900	18.906	-0.006	97	13081	0.3472	
	78 o-Xylene	106	19.713	19.719	-0.006	95	4699	0.1262	
	79 Styrene	104		19.767				ND	
S	80 Xylenes, Total	106				0		0.4735	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105	20.350	20.355	-0.005	86	1114	0.0105	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91	21.029	21.035	-0.006	97	3103	0.0251	
	89 4-Ethyltoluene	105		21.217				ND	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105	21.313	21.318	-0.005	95	5641	0.0637	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105	21.880	21.880	0.000	96	14385	0.1620	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119		22.297				ND	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91		22.886				ND	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128	26.203	26.197	0.006	94	2074	0.0181	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

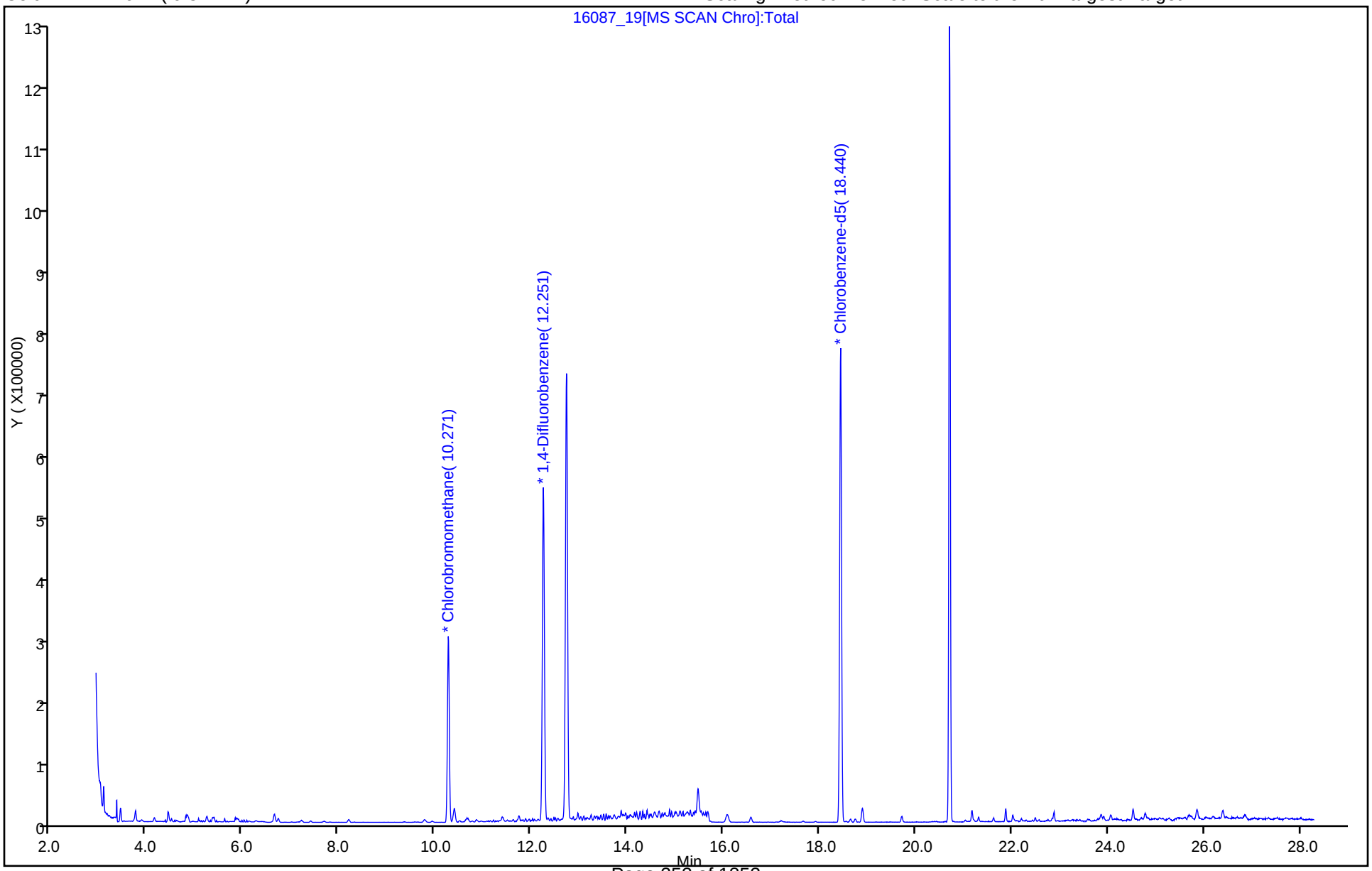
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3	Worklist Smp#:	19
Client ID:	FR-SS02-092315				
Purge Vol:	200.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	16
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



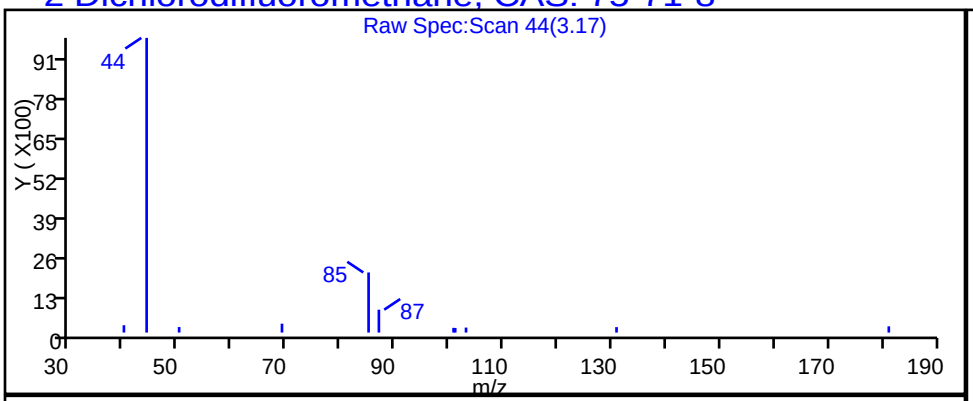
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

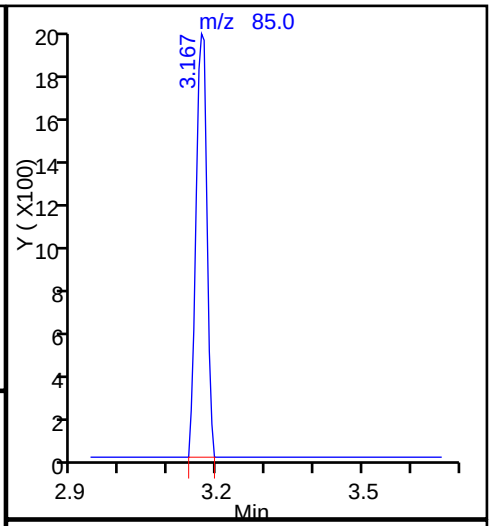
TestAmerica Burlington

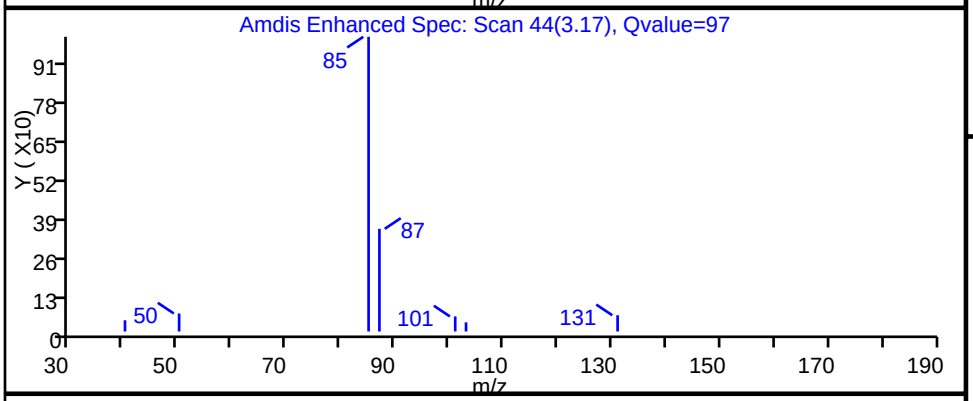
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

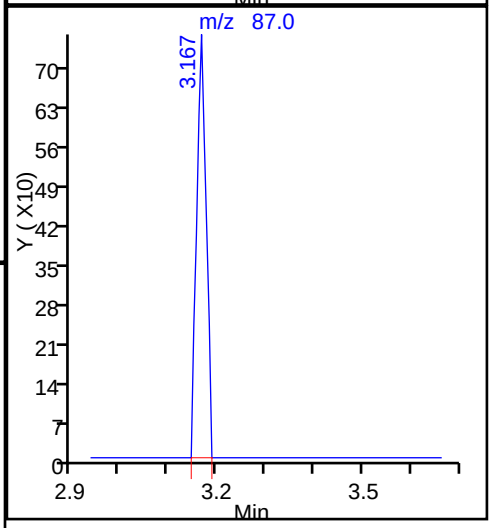
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

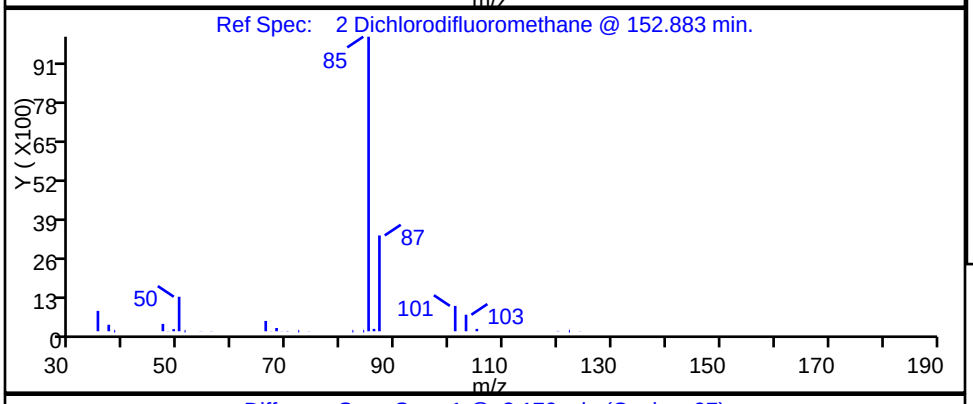
2 Dichlorodifluoromethane, CAS: 75-71-8

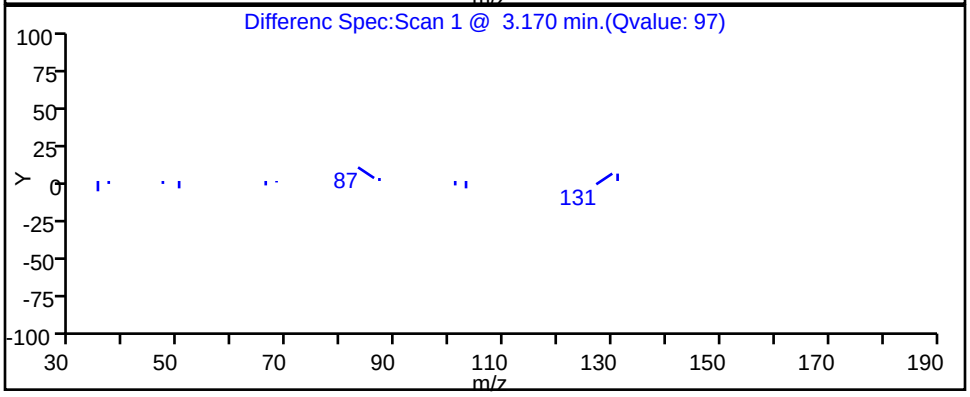












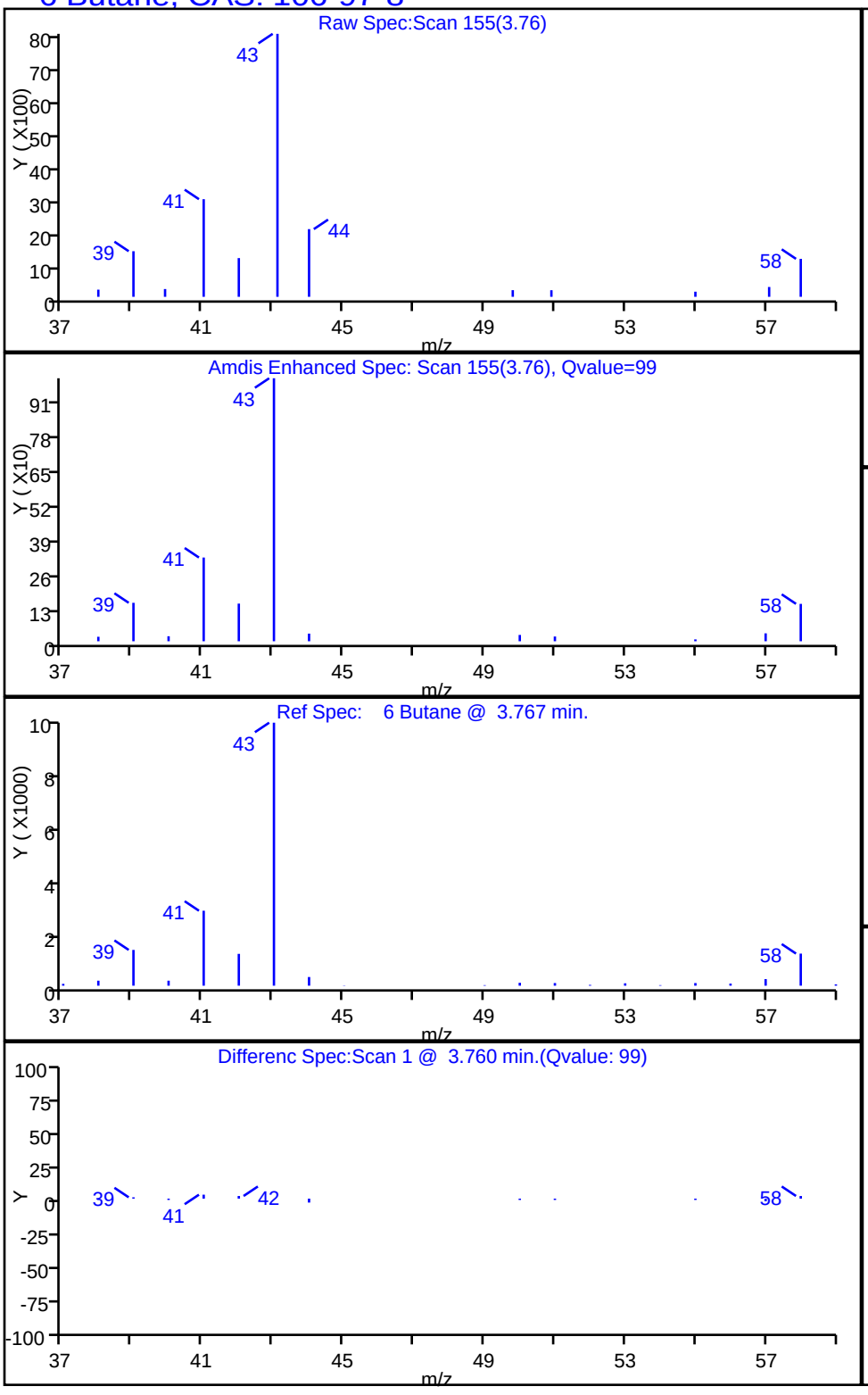
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

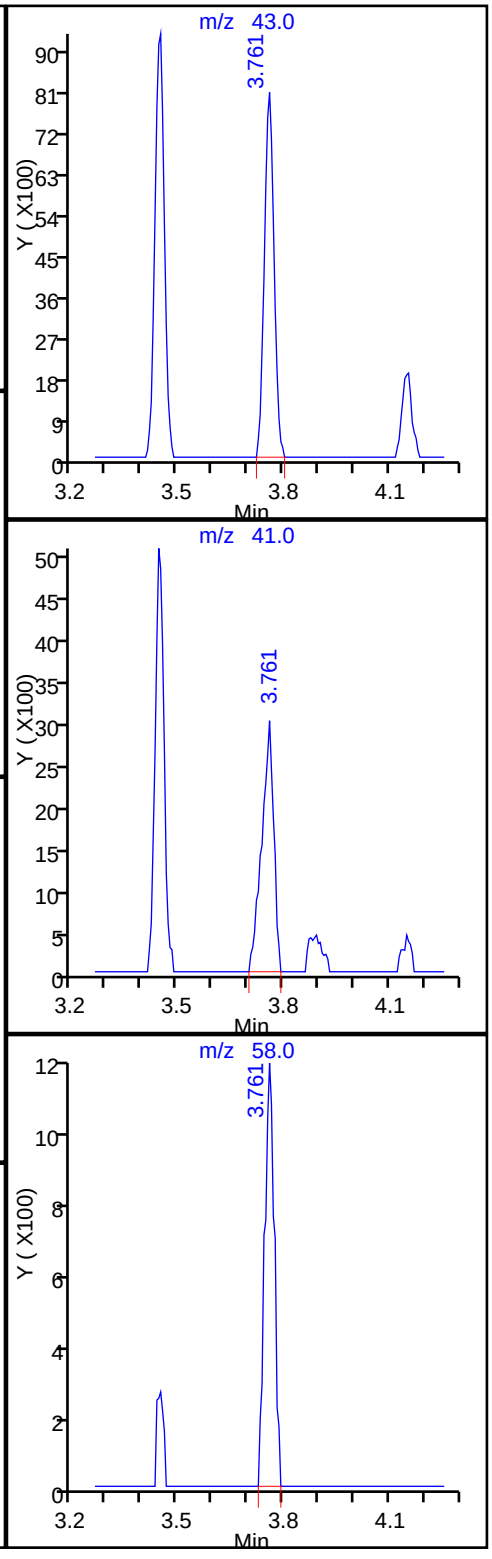
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8





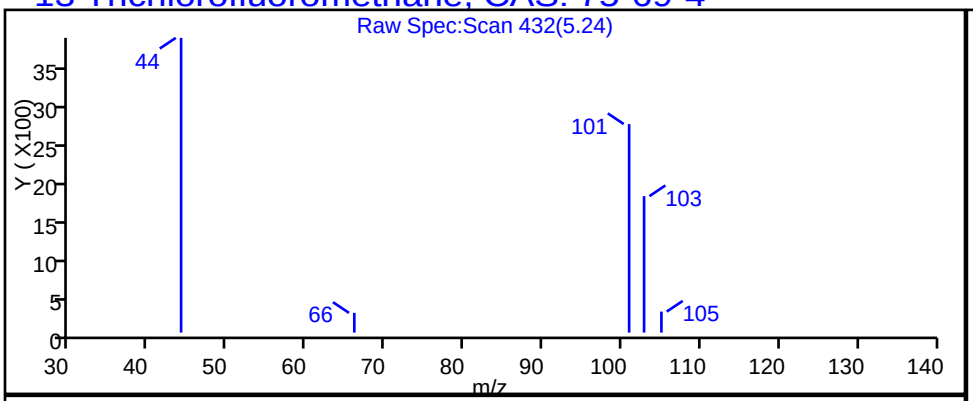
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

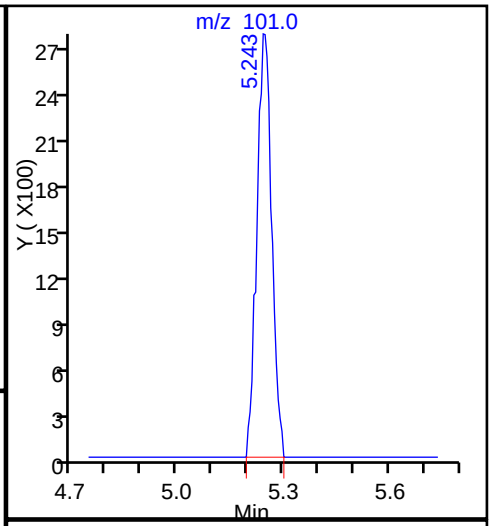
TestAmerica Burlington

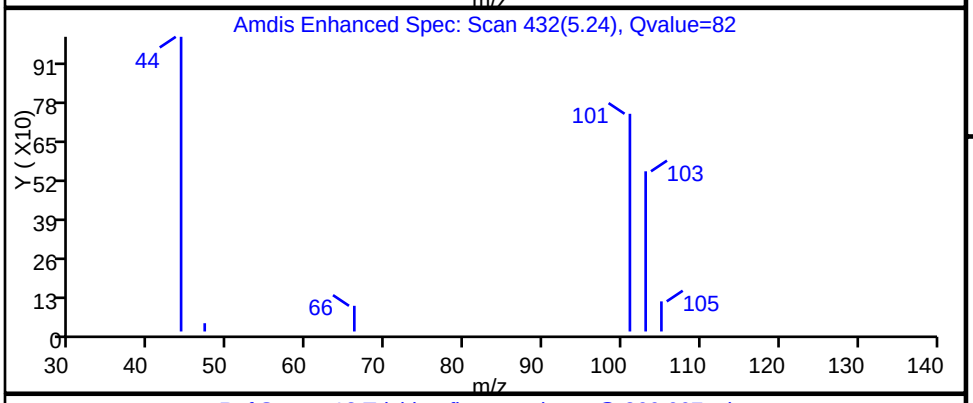
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

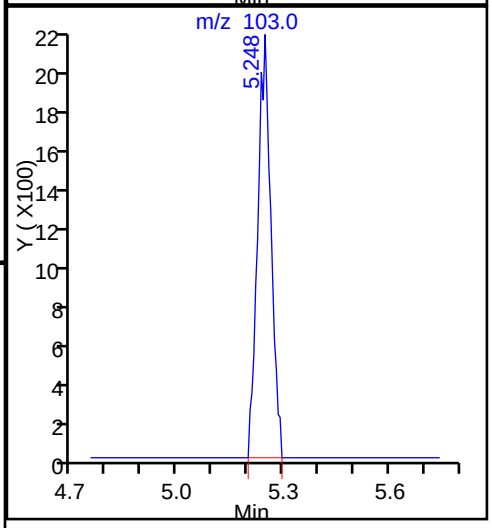
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

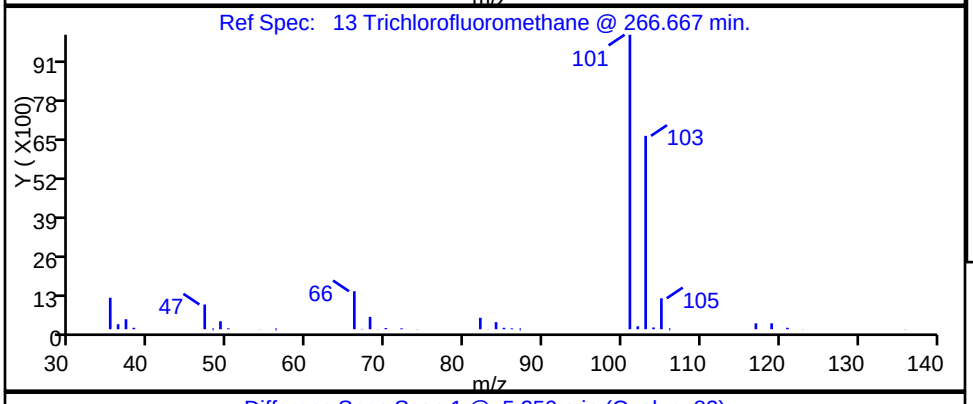
13 Trichlorofluoromethane, CAS: 75-69-4

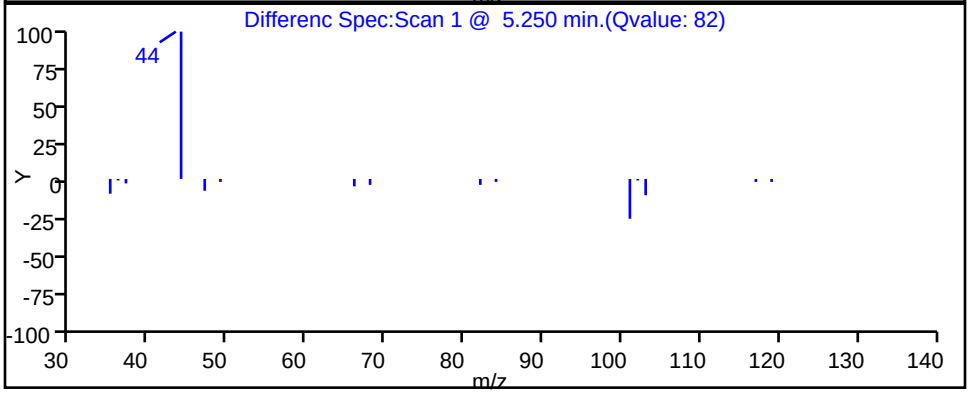












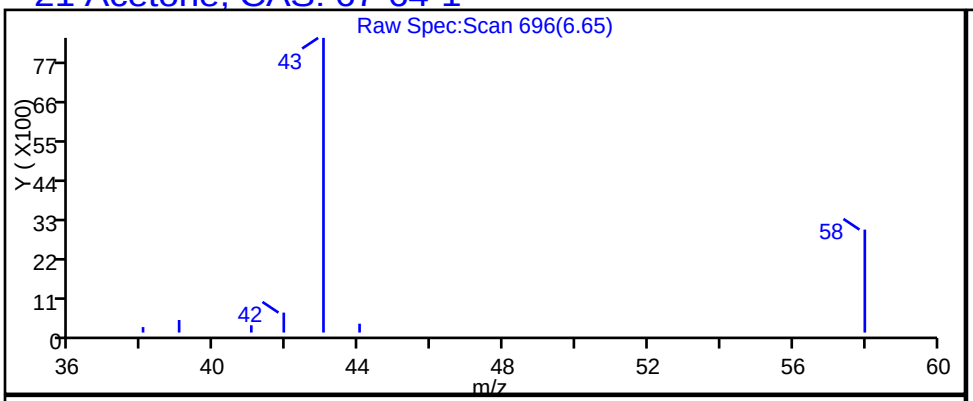
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

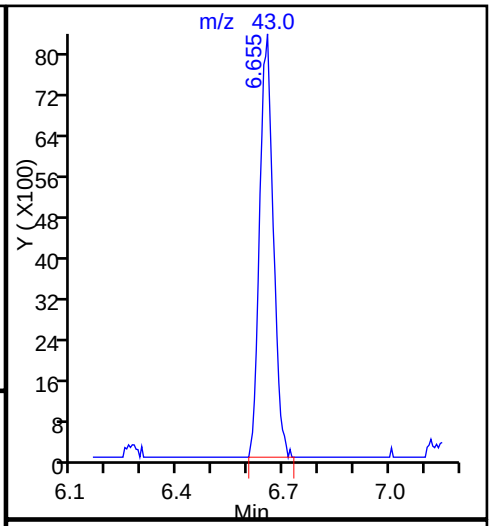
TestAmerica Burlington

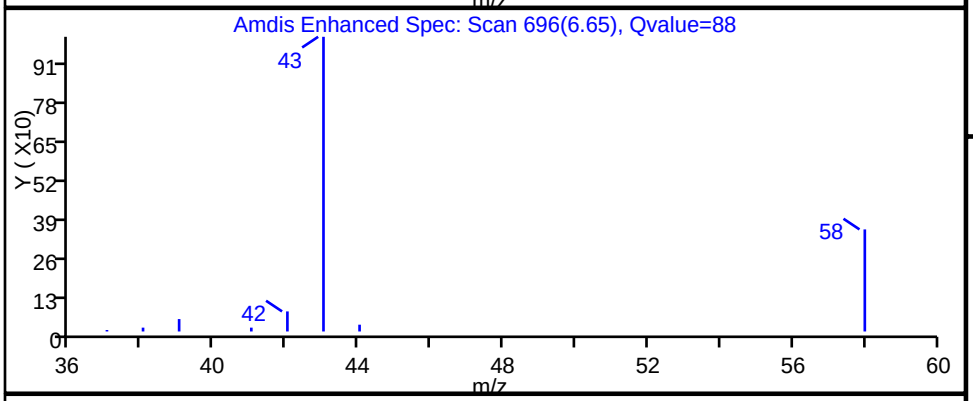
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

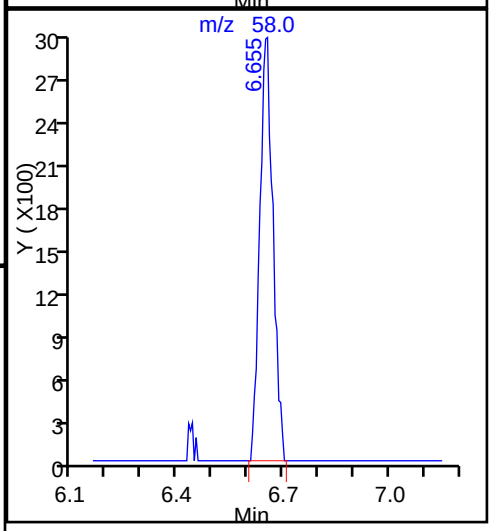
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

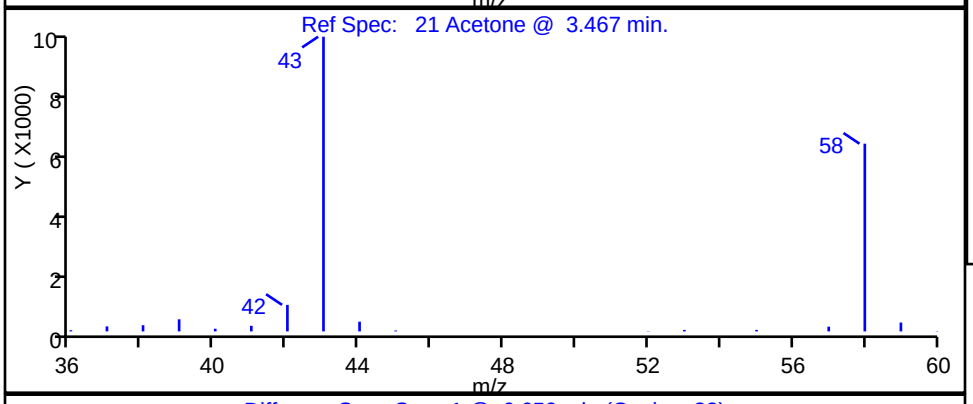
21 Acetone, CAS: 67-64-1

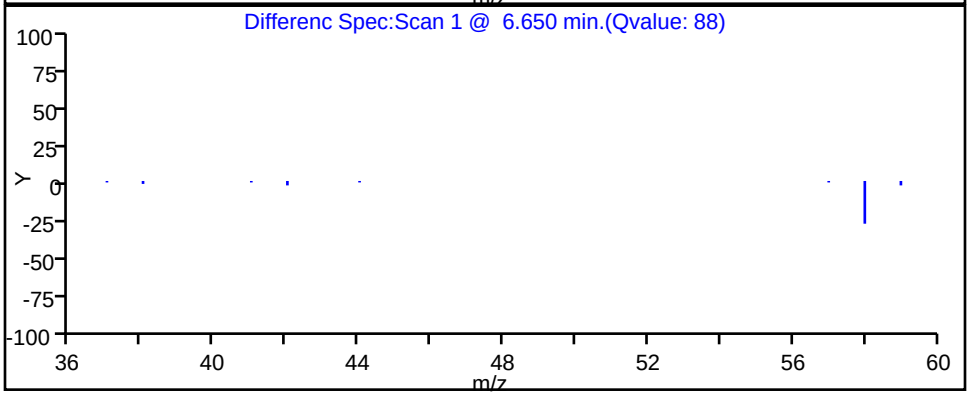












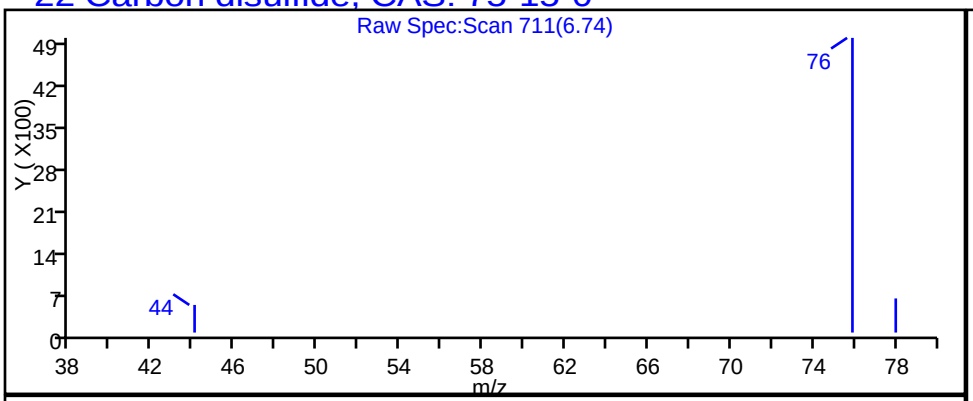
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

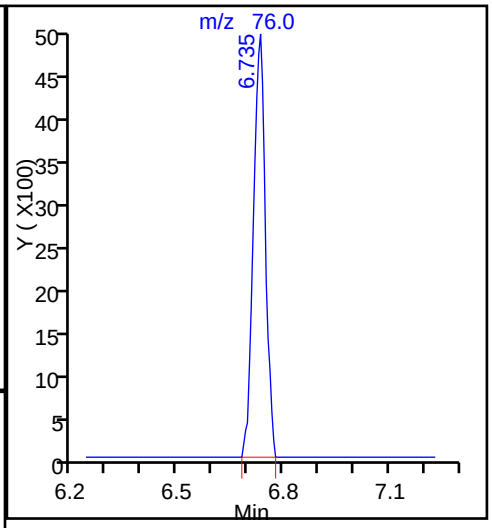
TestAmerica Burlington

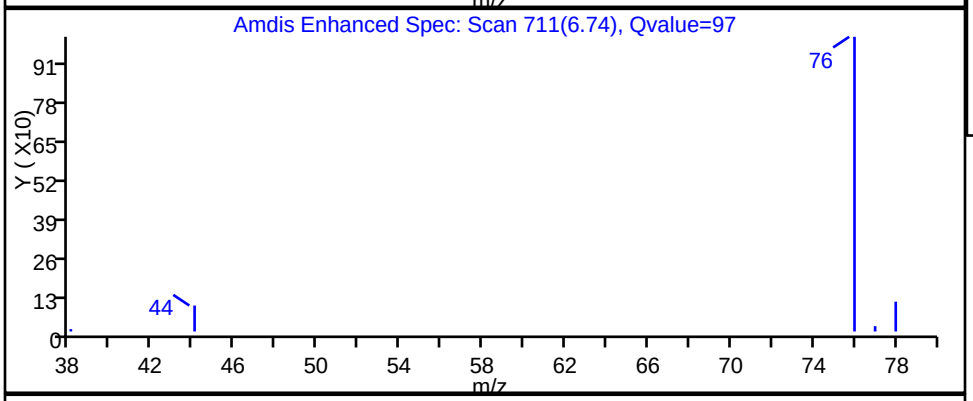
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

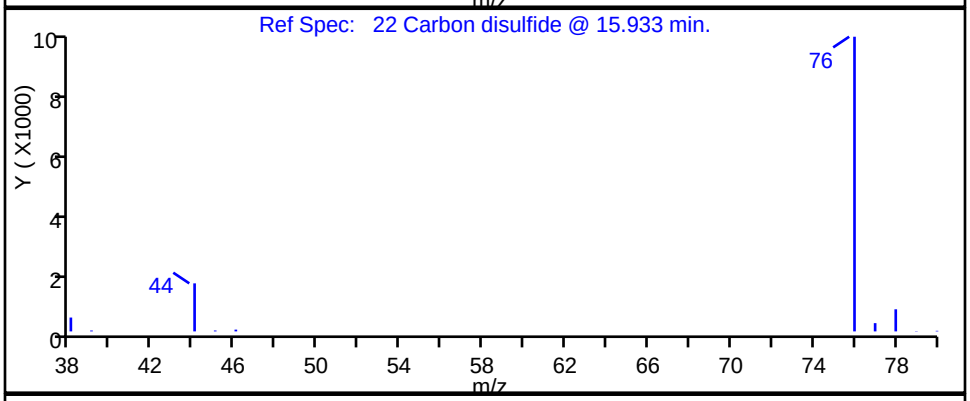
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

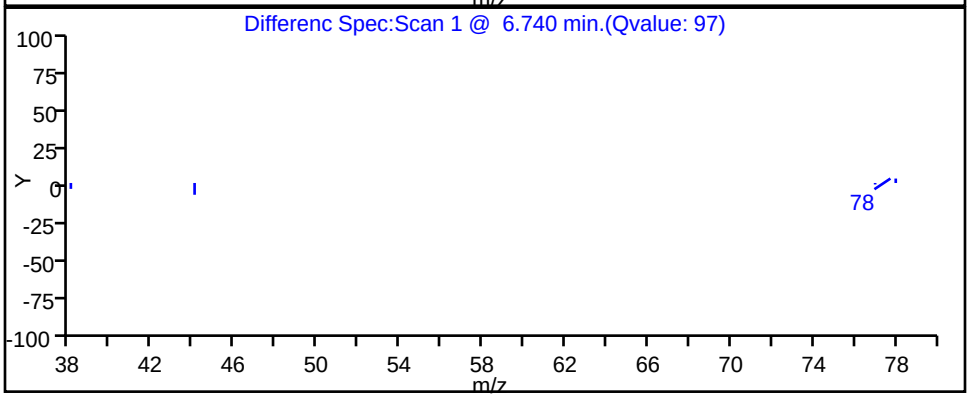
22 Carbon disulfide, CAS: 75-15-0











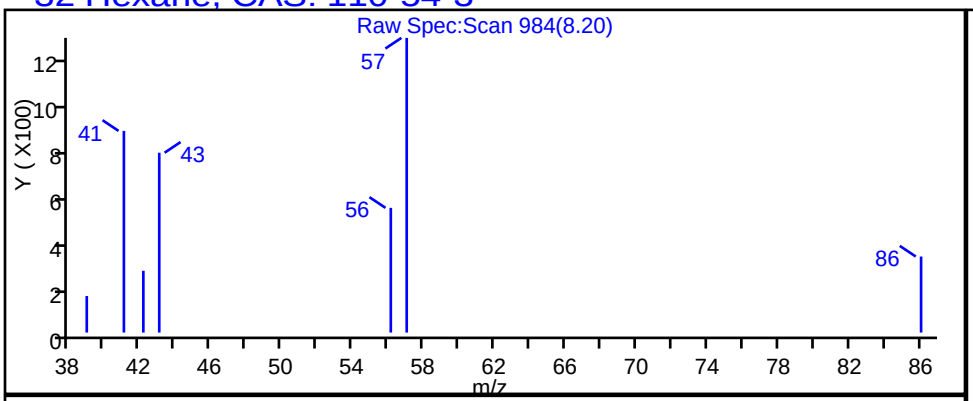
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

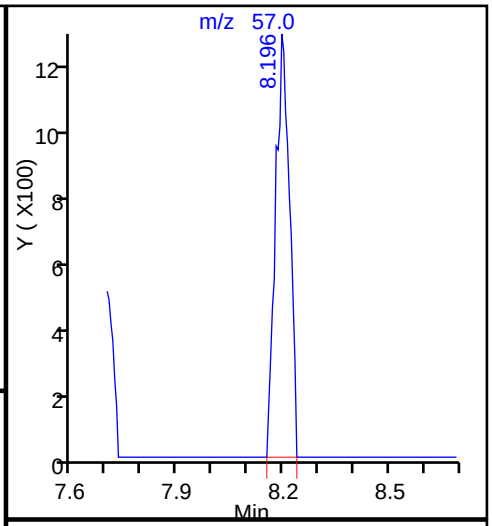
TestAmerica Burlington

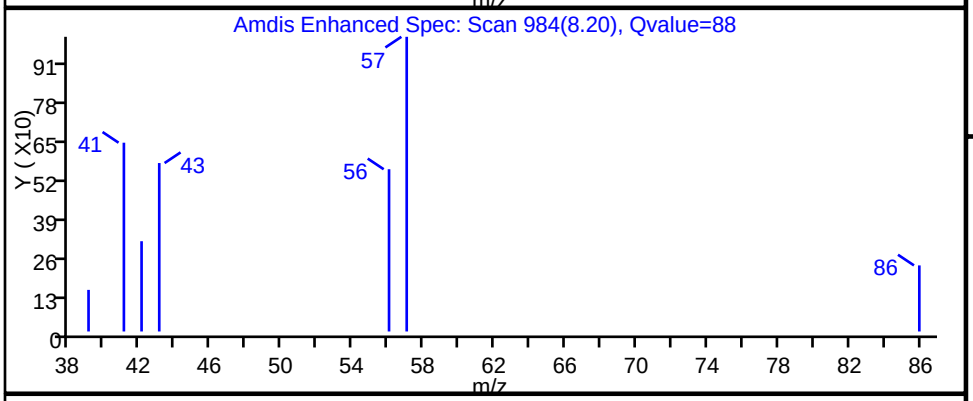
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

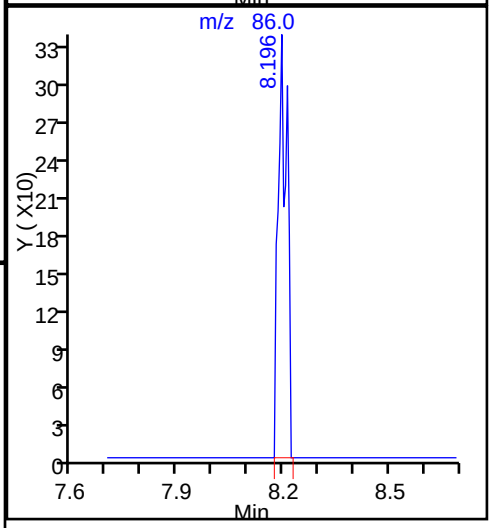
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

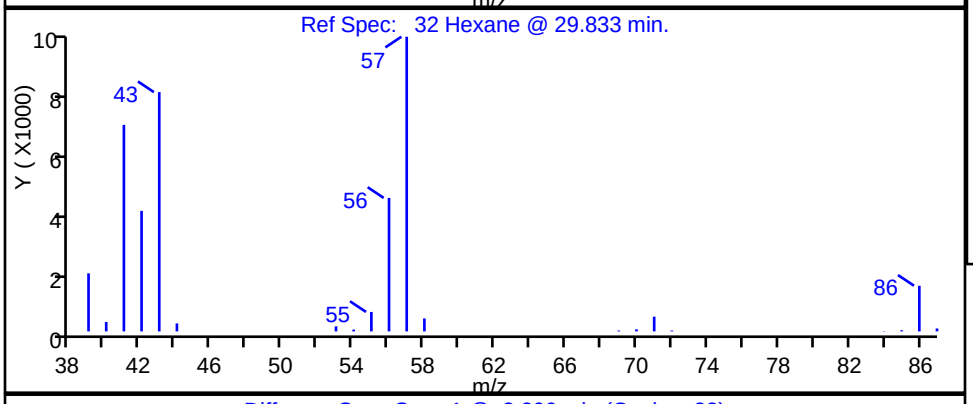
32 Hexane, CAS: 110-54-3

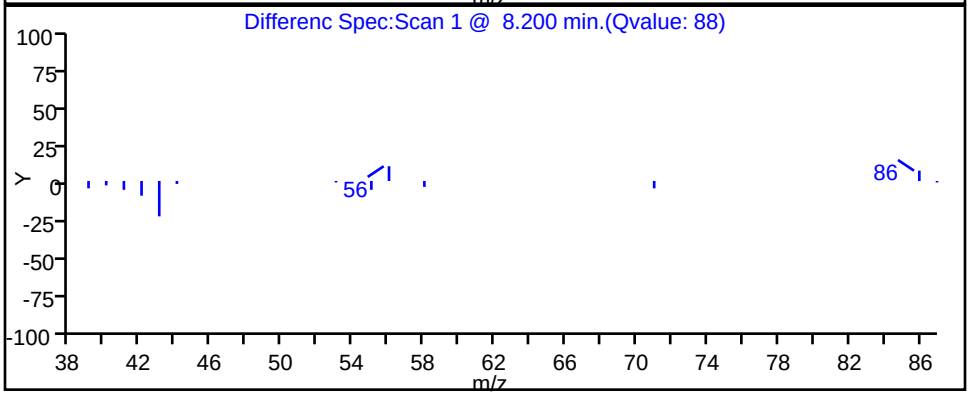












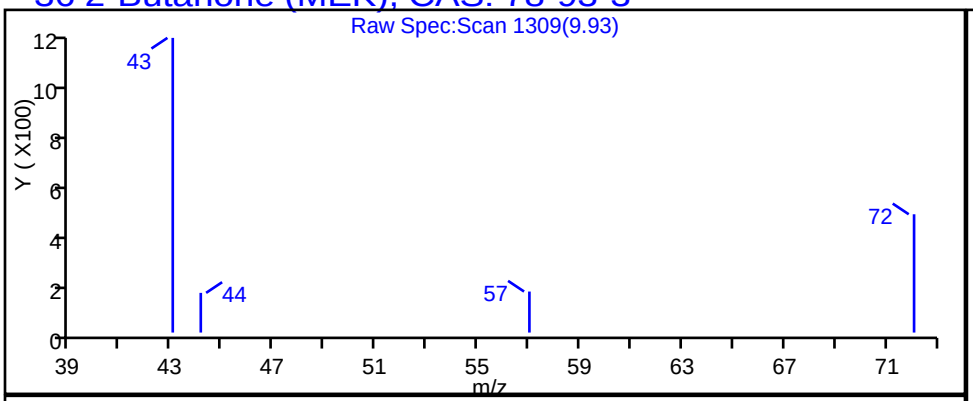
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

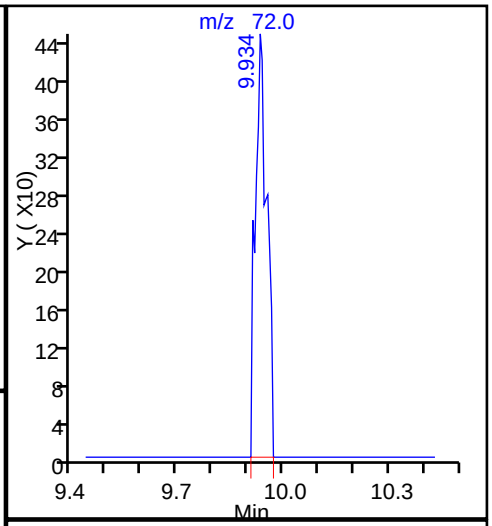
TestAmerica Burlington

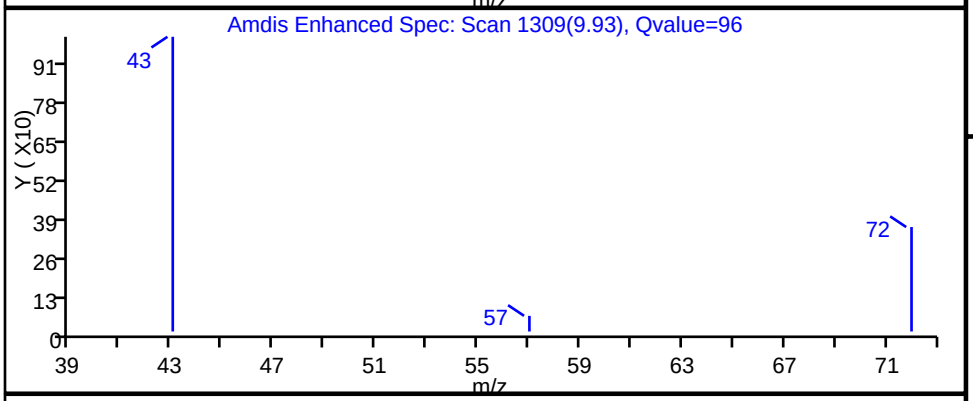
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

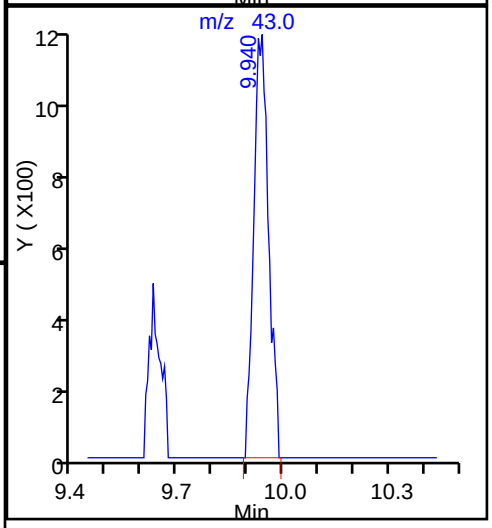
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

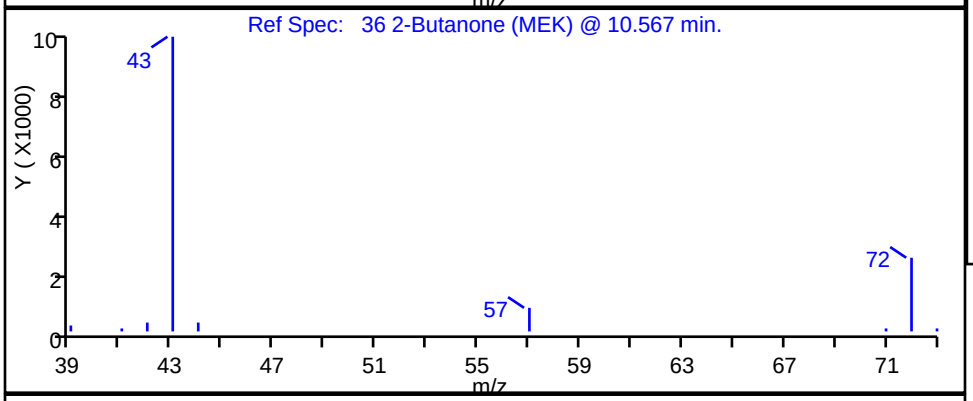
36 2-Butanone (MEK), CAS: 78-93-3

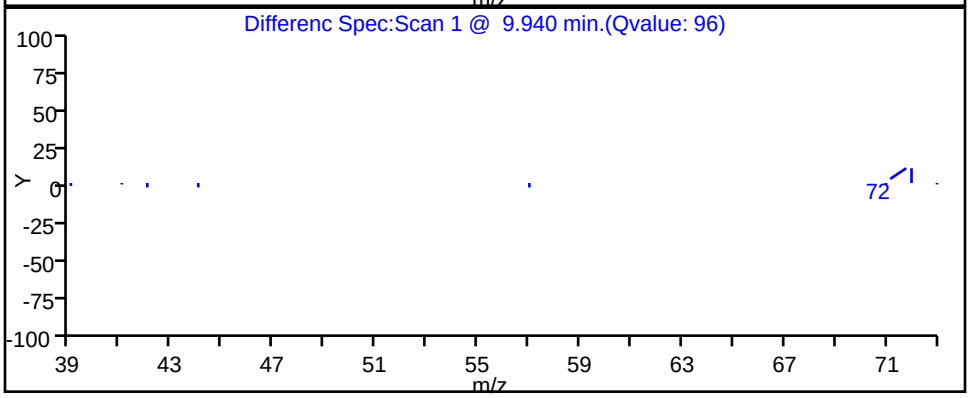












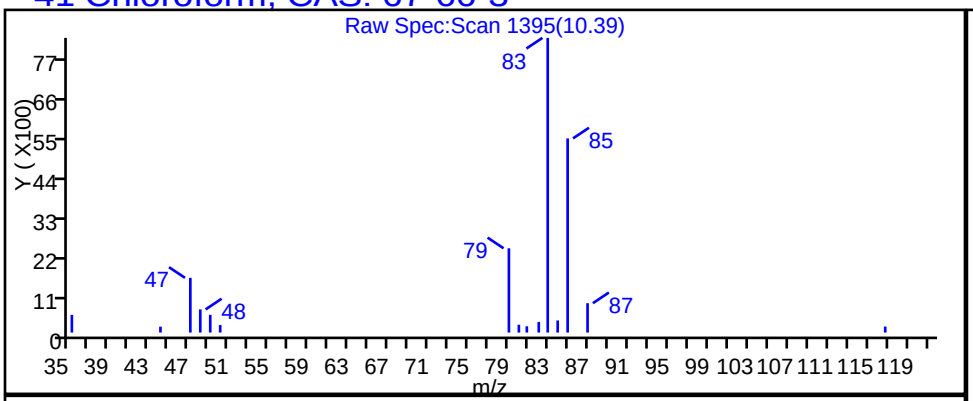
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

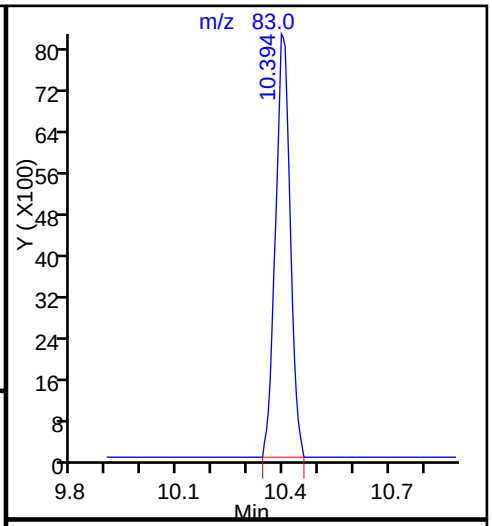
TestAmerica Burlington

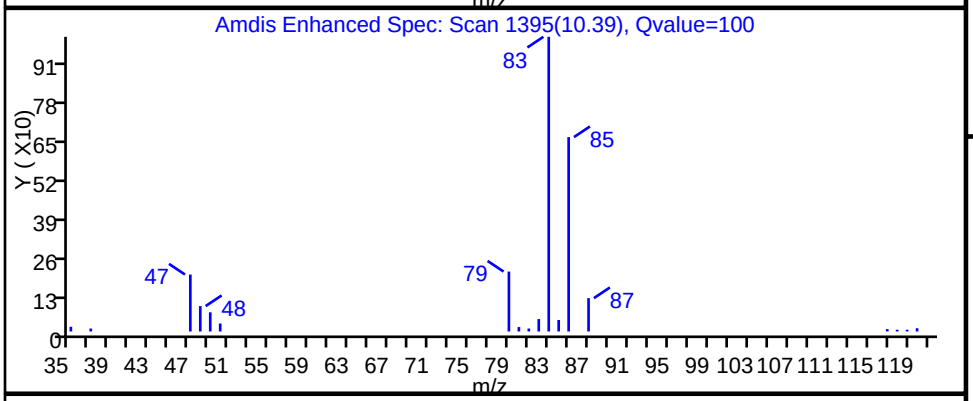
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

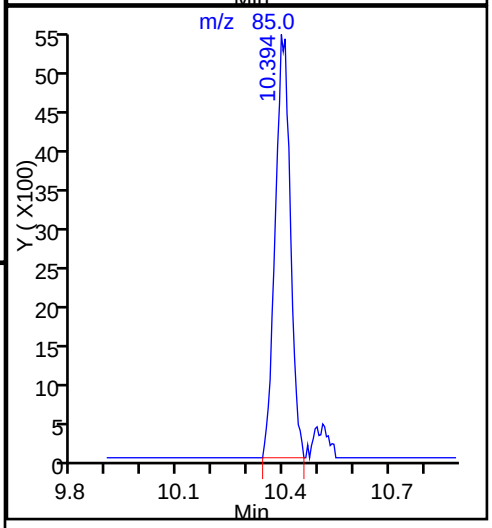
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

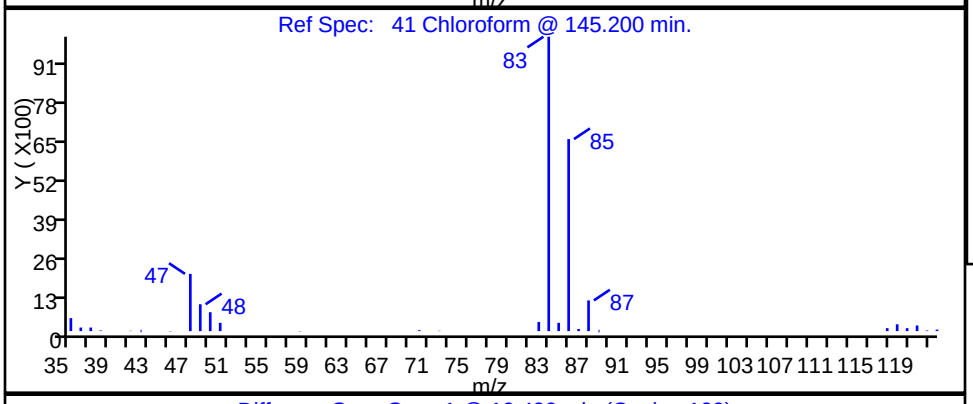
41 Chloroform, CAS: 67-66-3

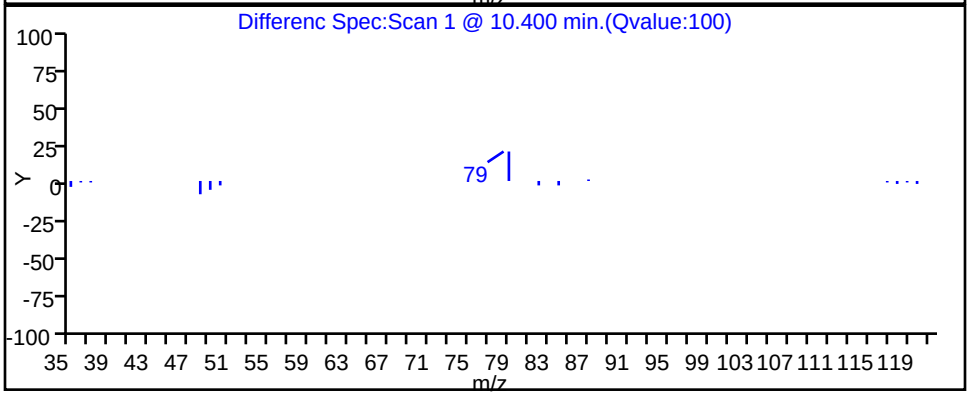












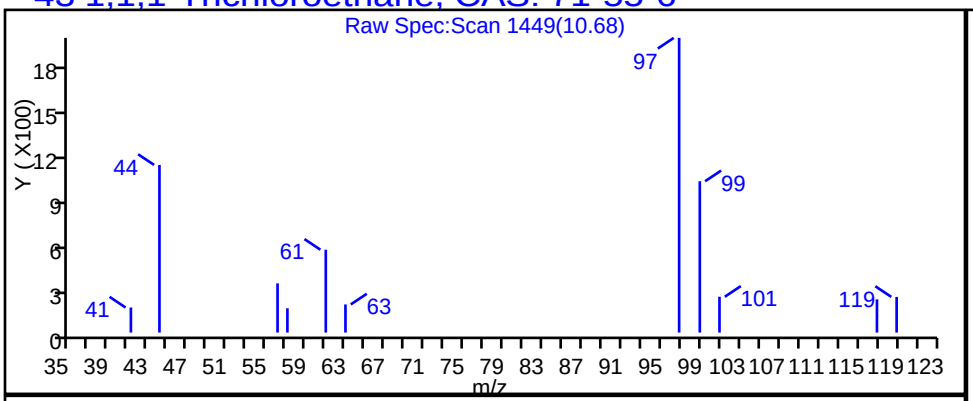
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

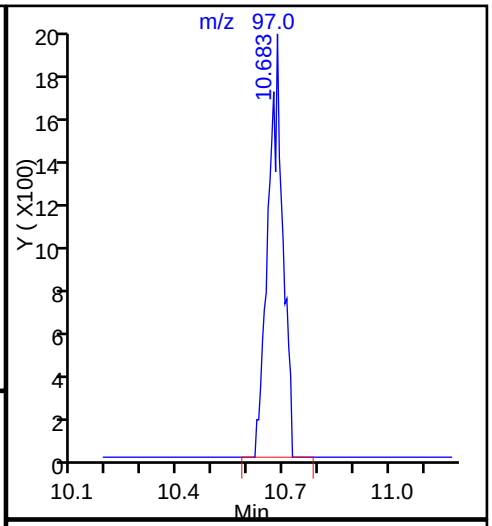
TestAmerica Burlington

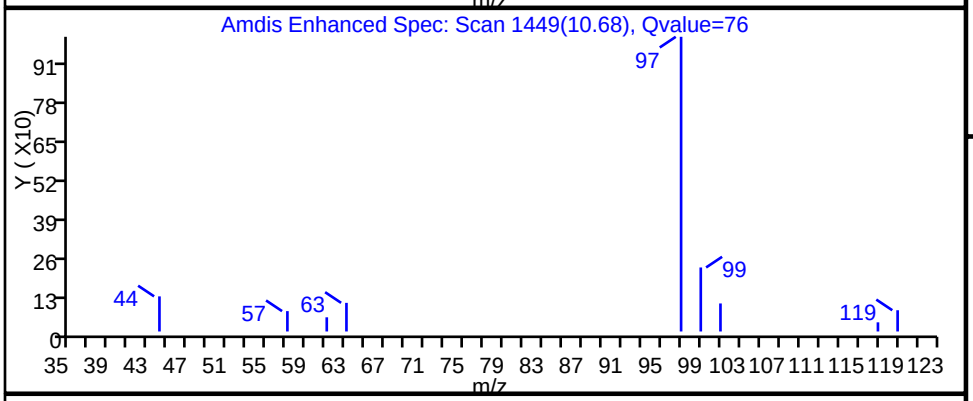
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

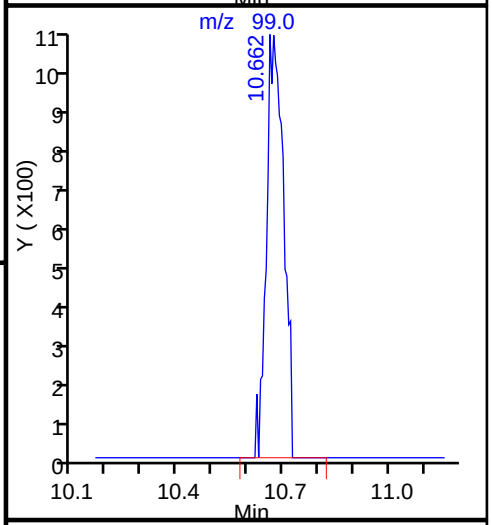
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

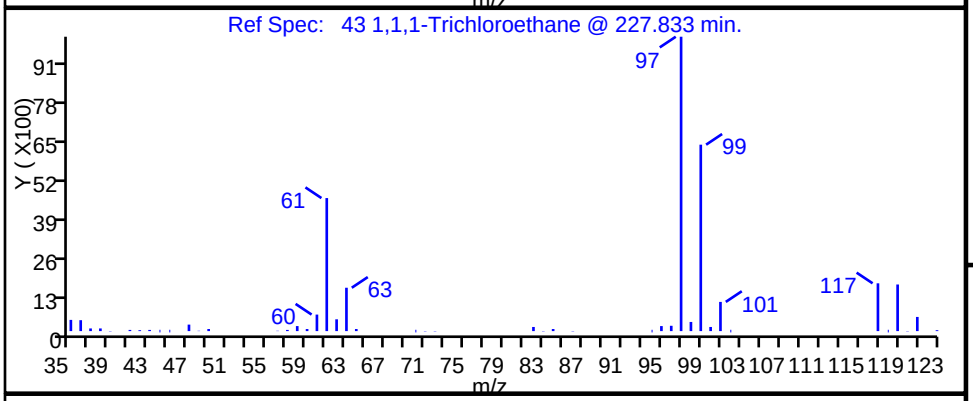
43 1,1,1-Trichloroethane, CAS: 71-55-6

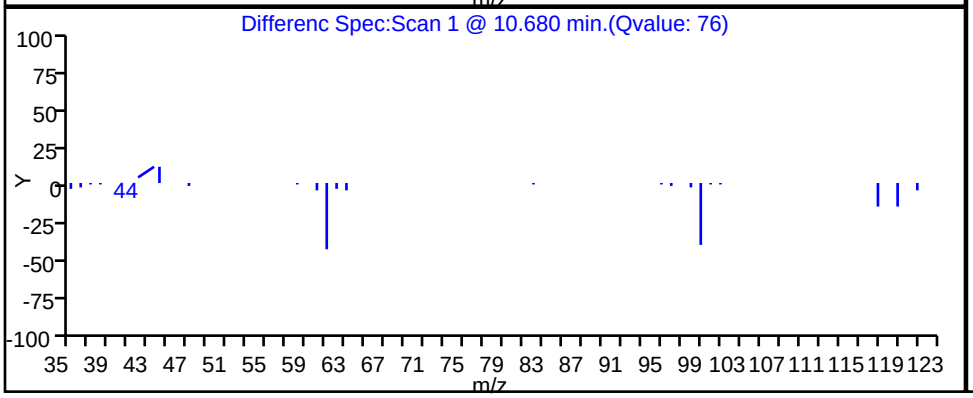


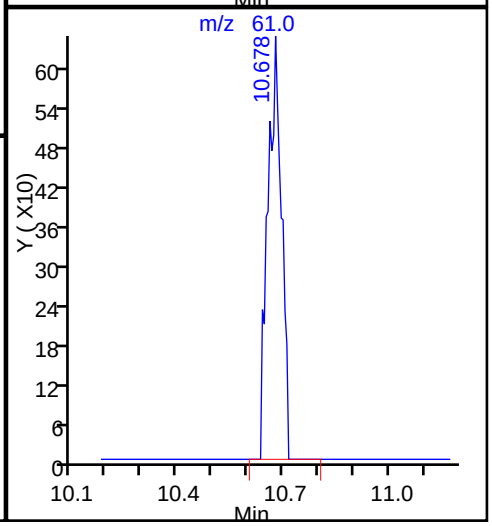












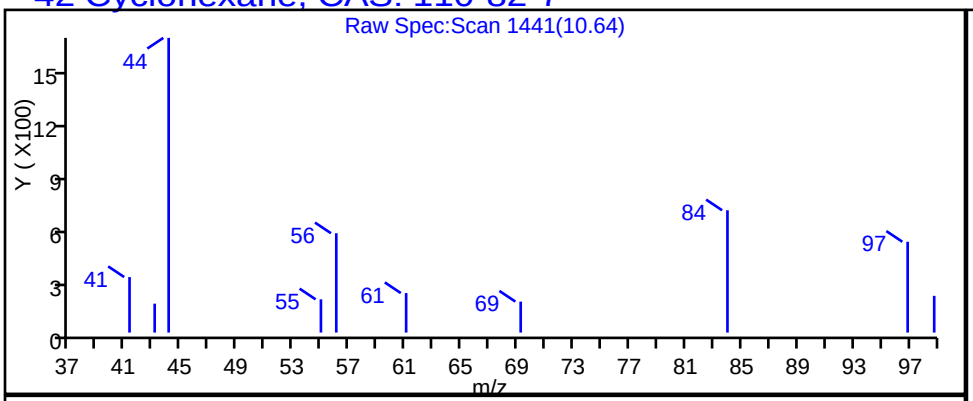
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

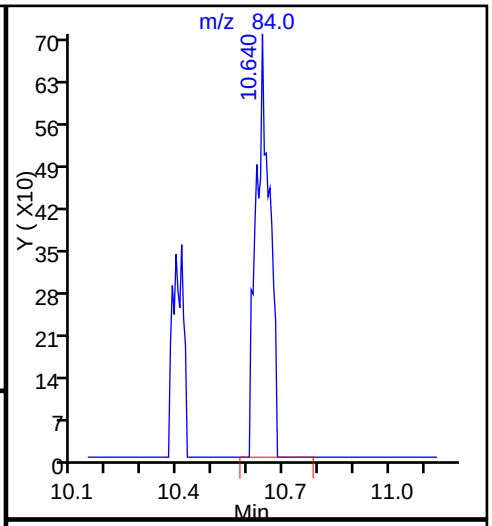
TestAmerica Burlington

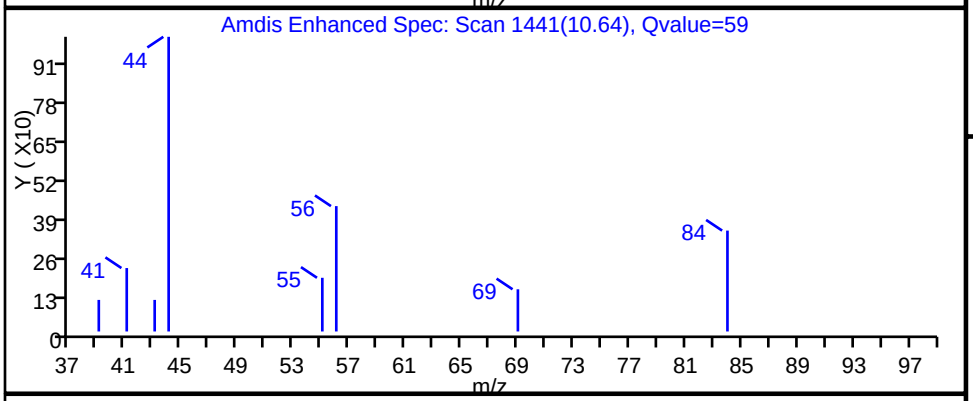
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

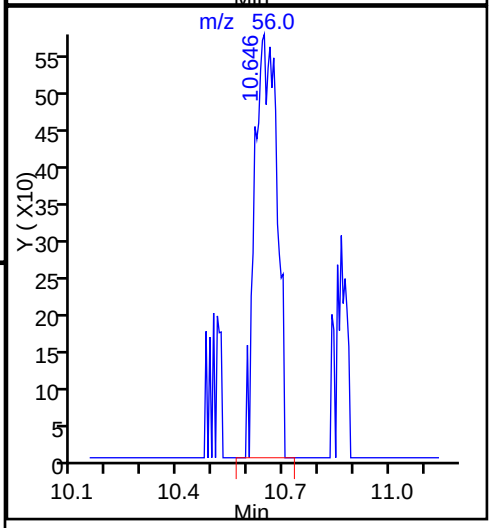
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

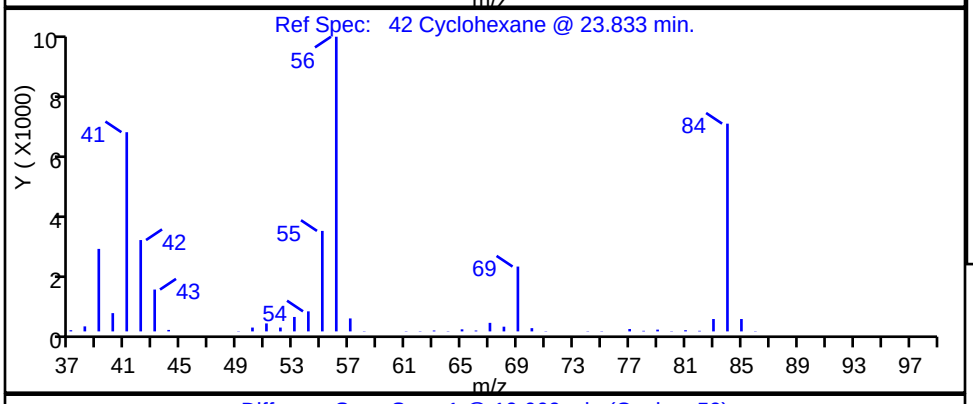
42 Cyclohexane, CAS: 110-82-7

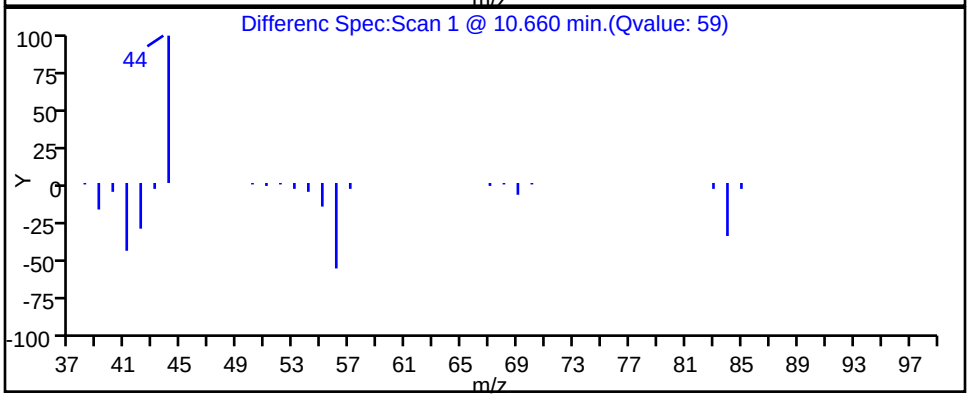












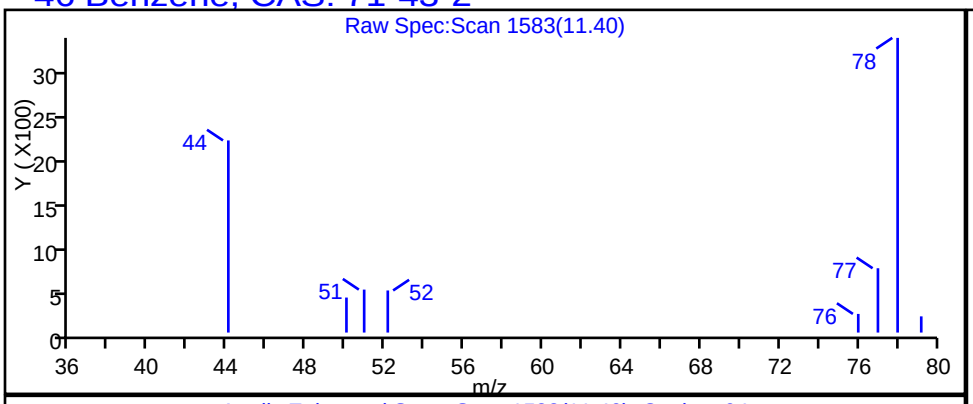
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

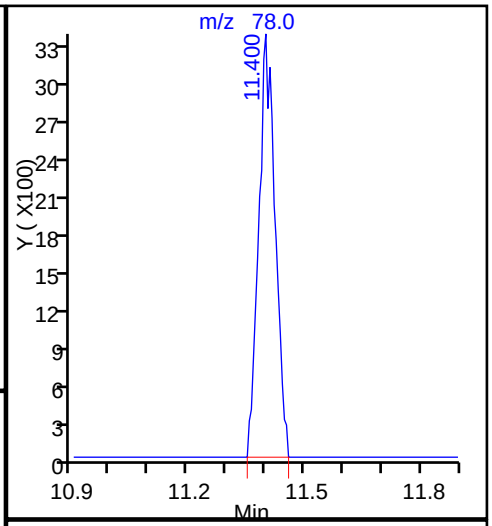
TestAmerica Burlington

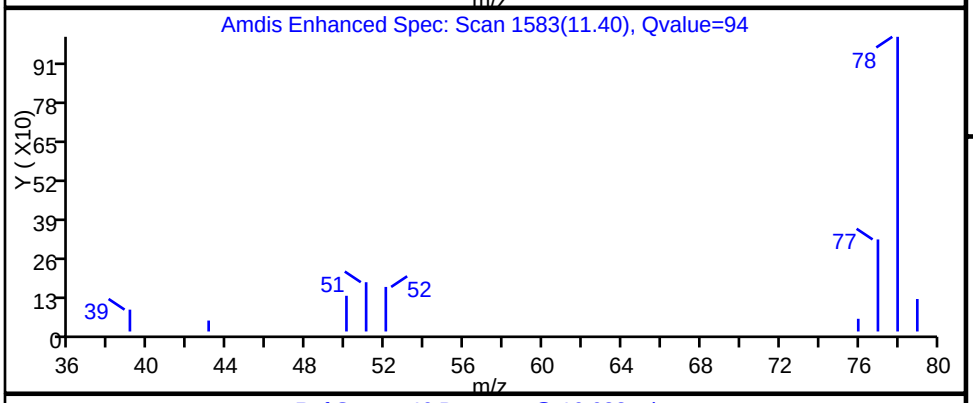
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

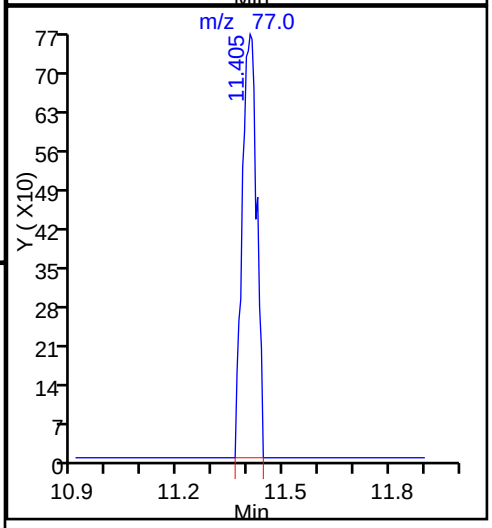
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

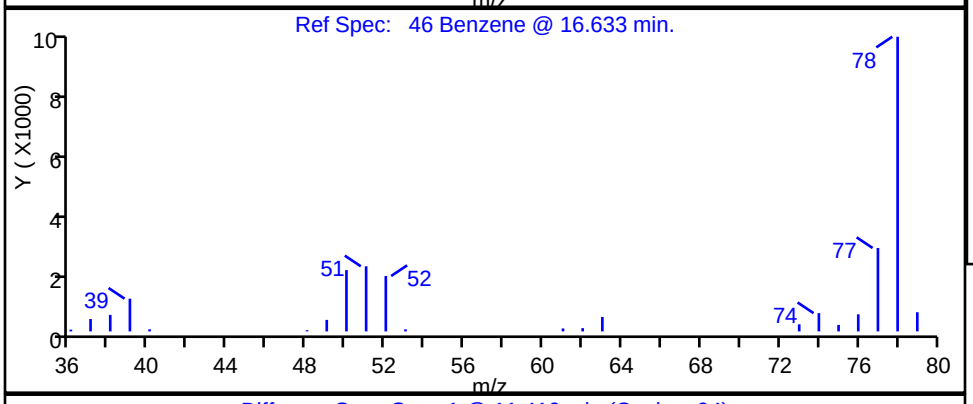
46 Benzene, CAS: 71-43-2

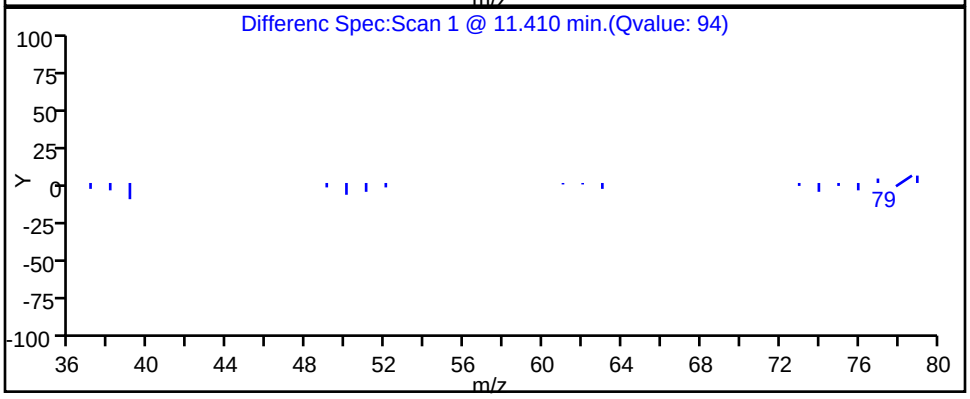












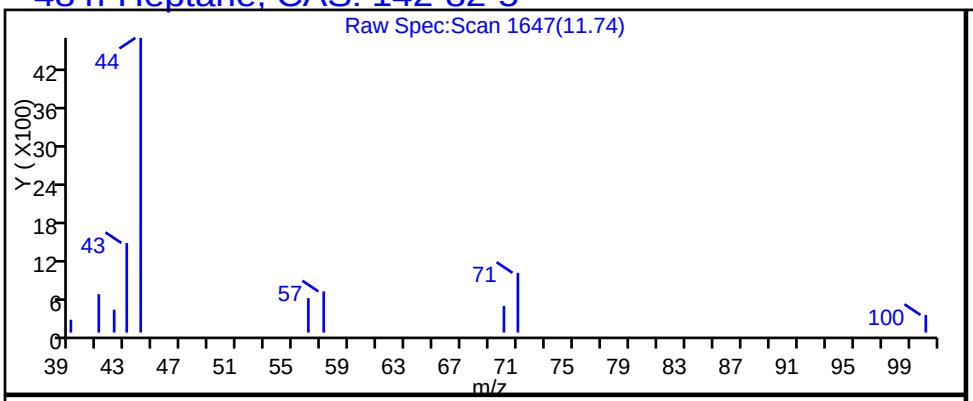
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

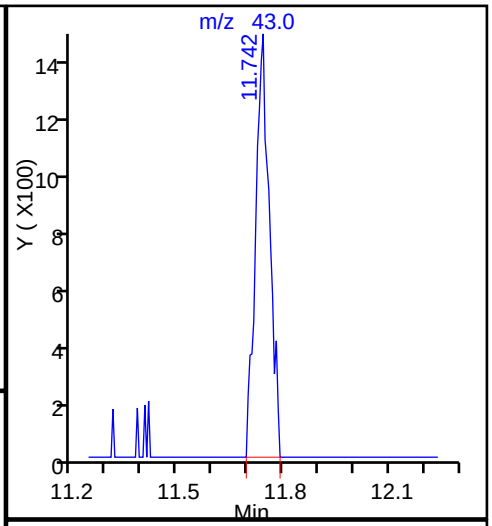
TestAmerica Burlington

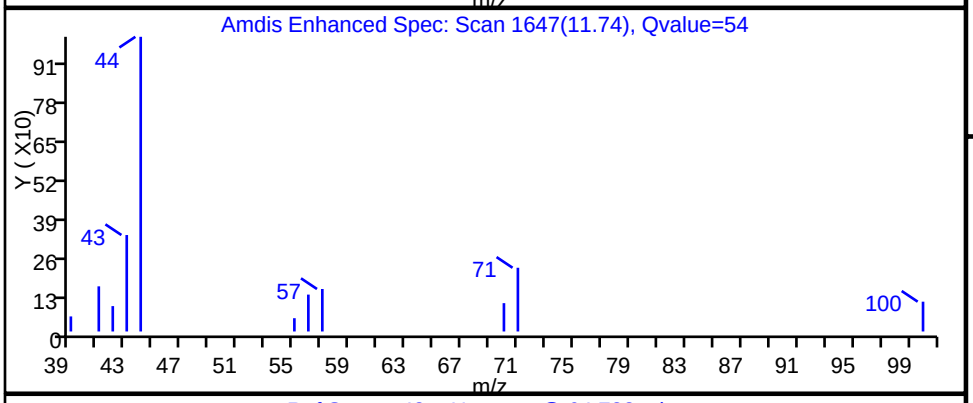
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

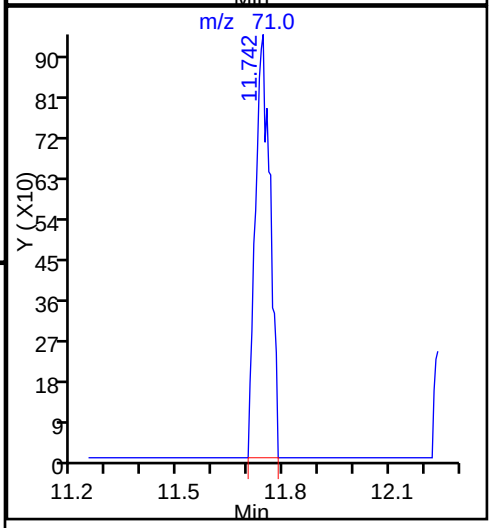
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

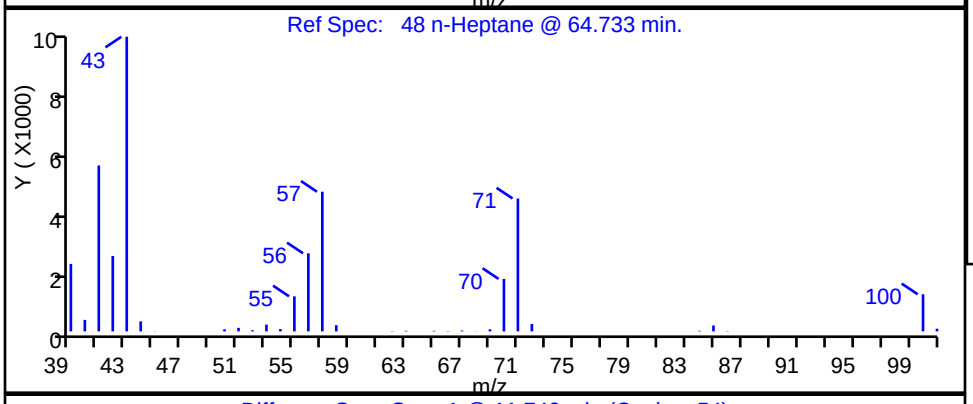
48 n-Heptane, CAS: 142-82-5

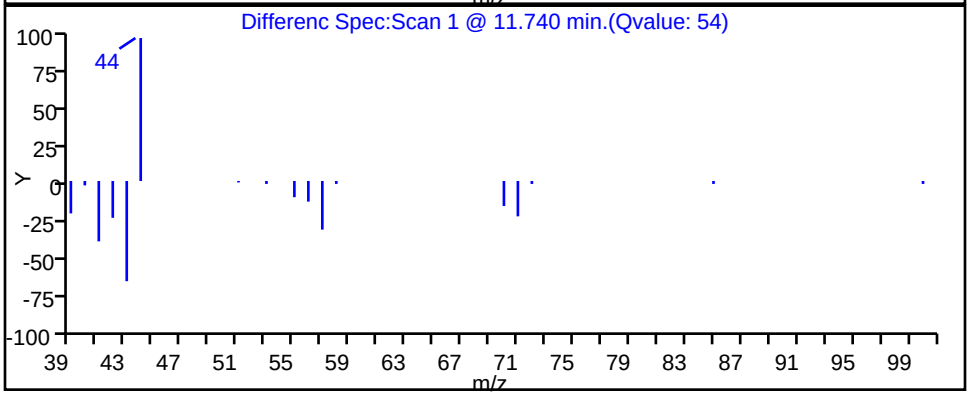












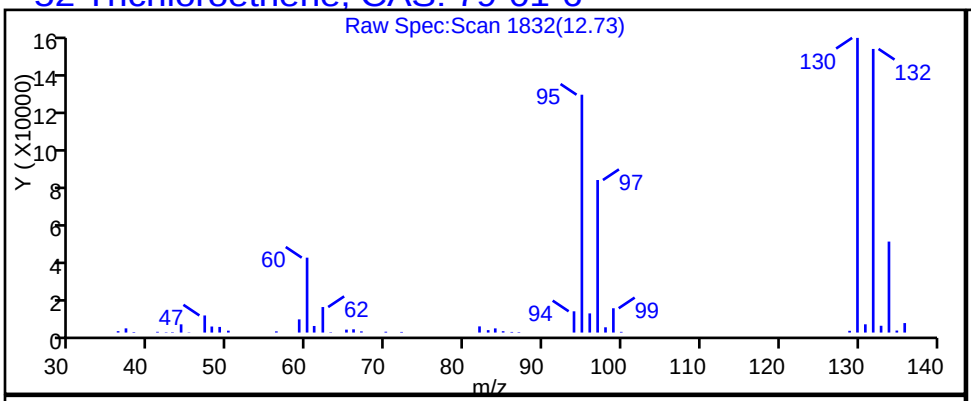
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

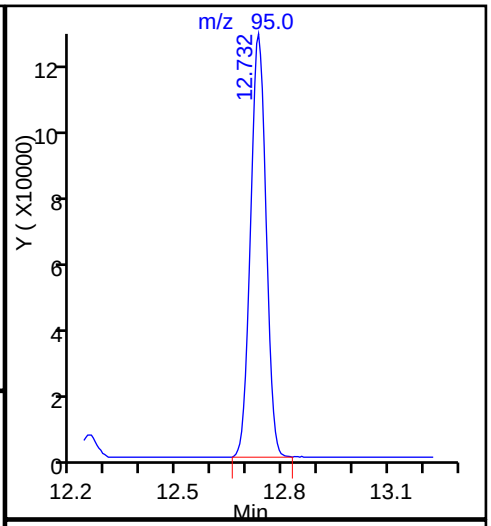
TestAmerica Burlington

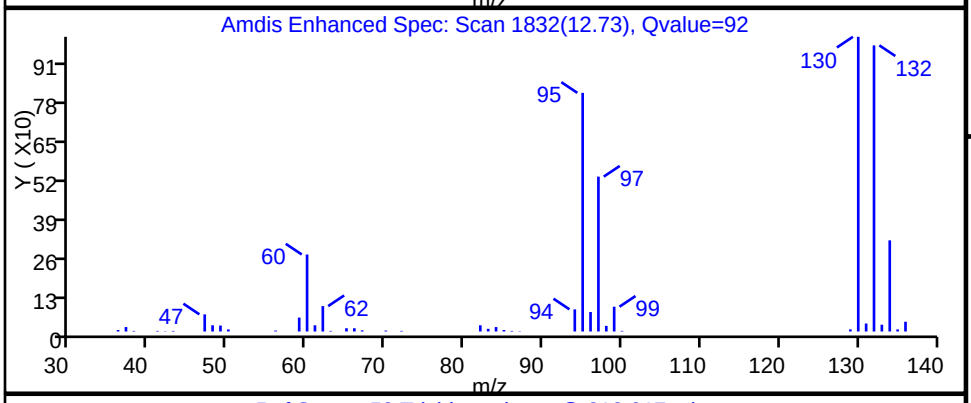
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

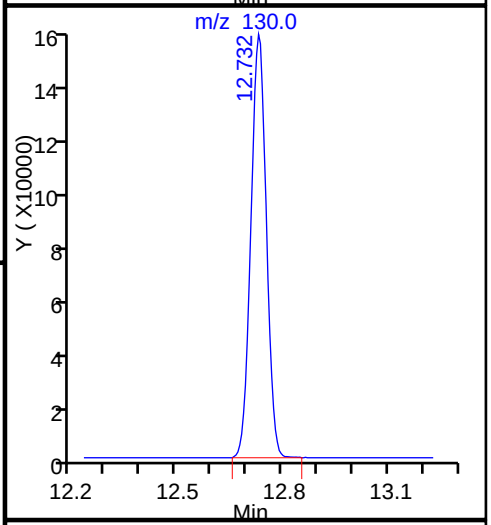
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

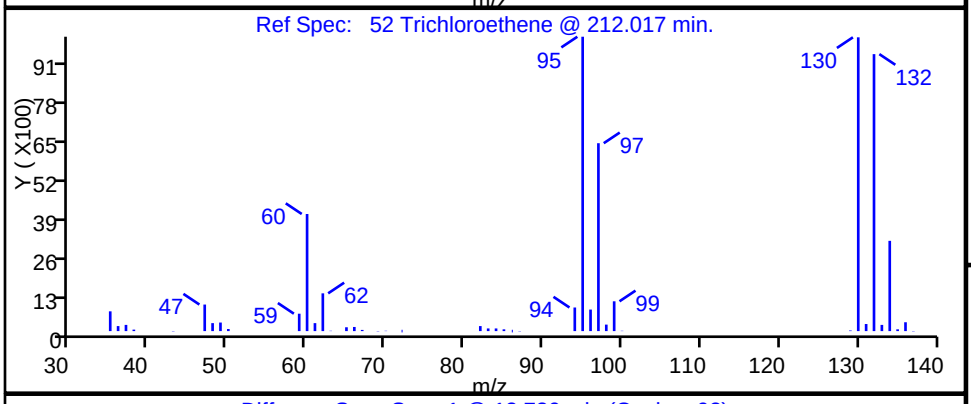
52 Trichloroethene, CAS: 79-01-6

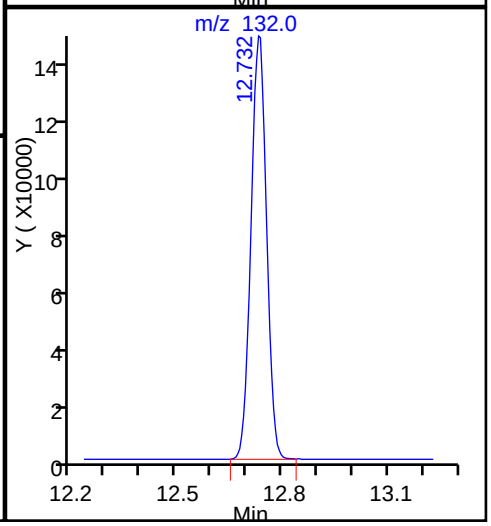


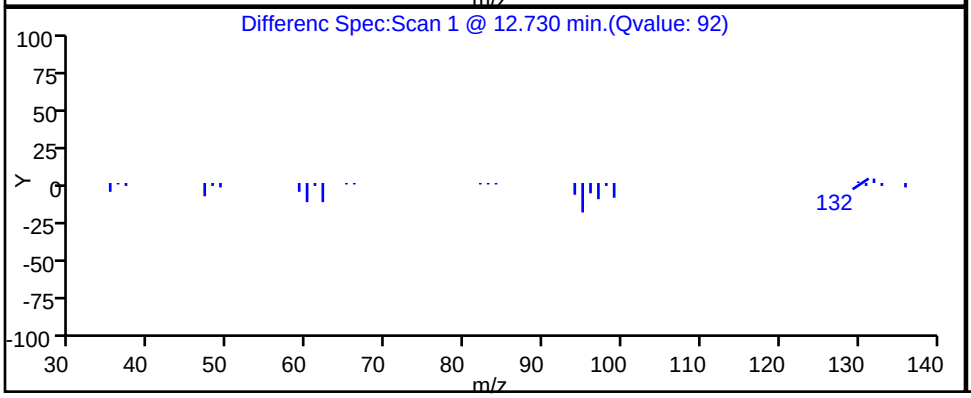












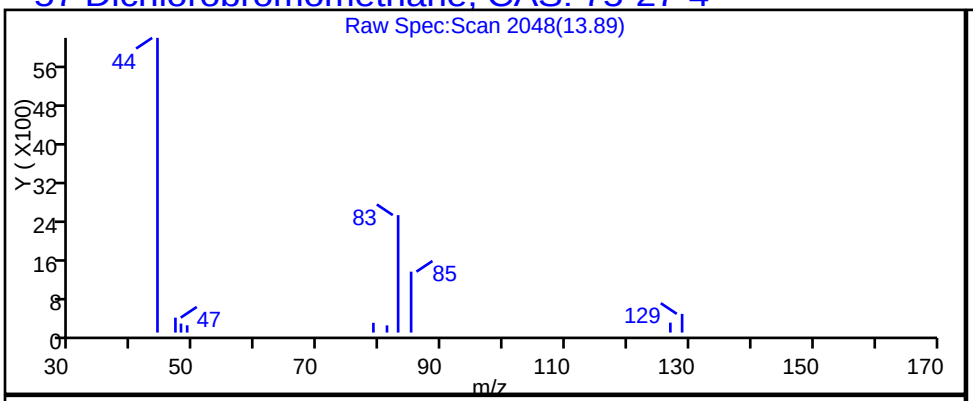
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

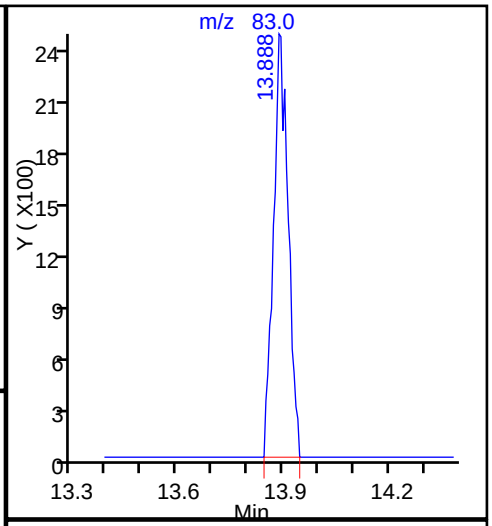
TestAmerica Burlington

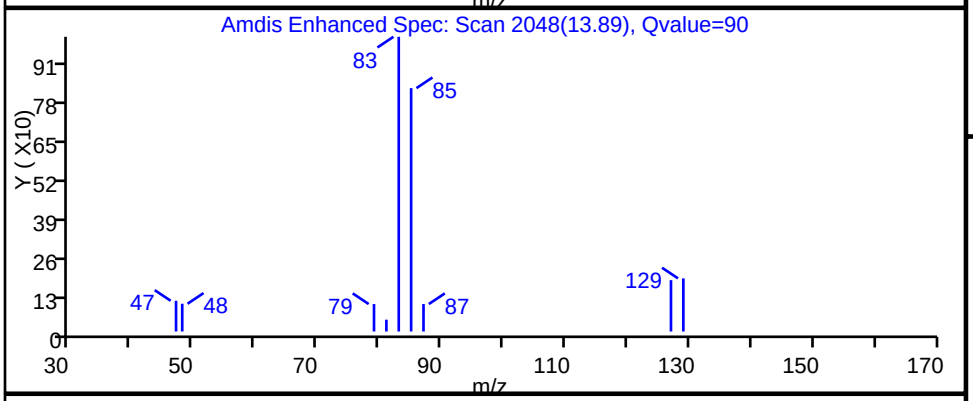
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

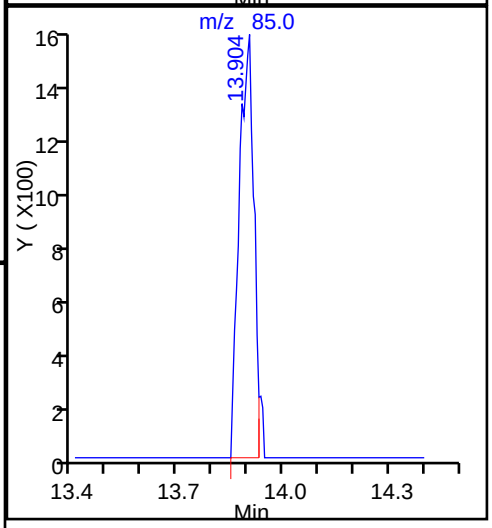
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

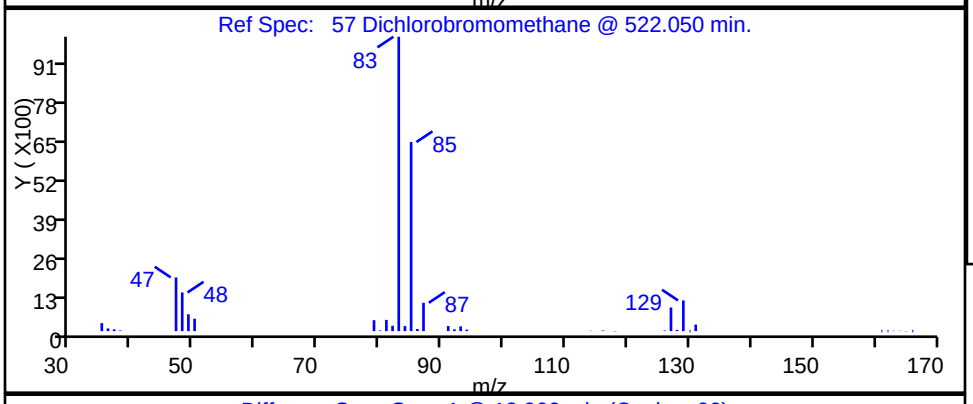
57 Dichlorobromomethane, CAS: 75-27-4

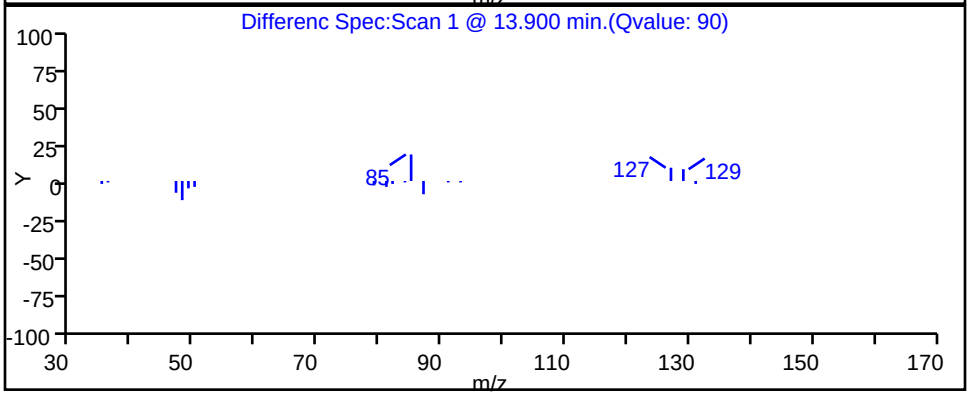












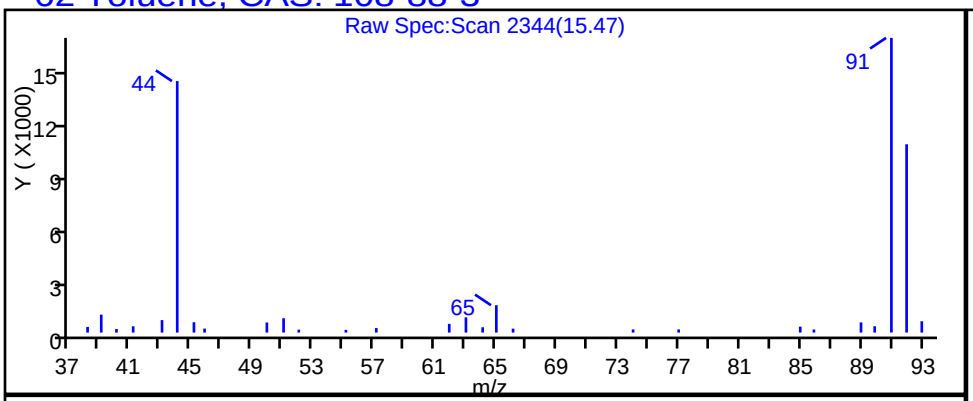
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

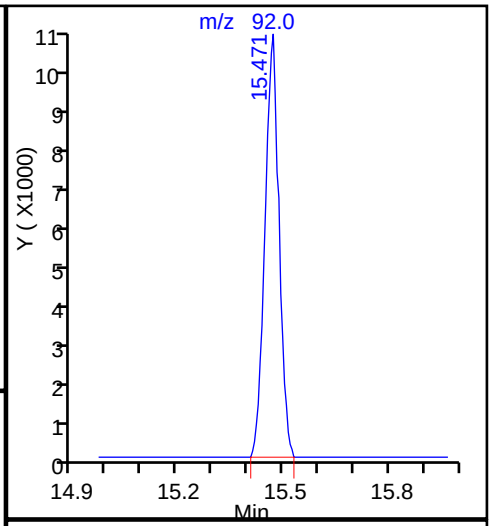
TestAmerica Burlington

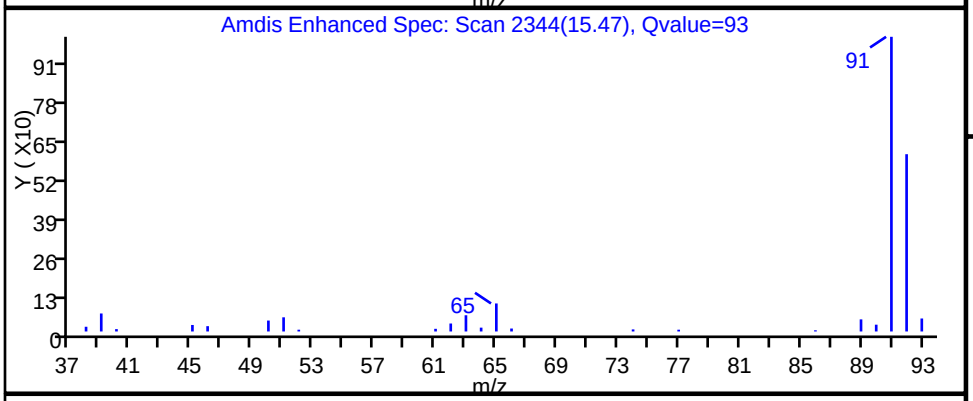
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

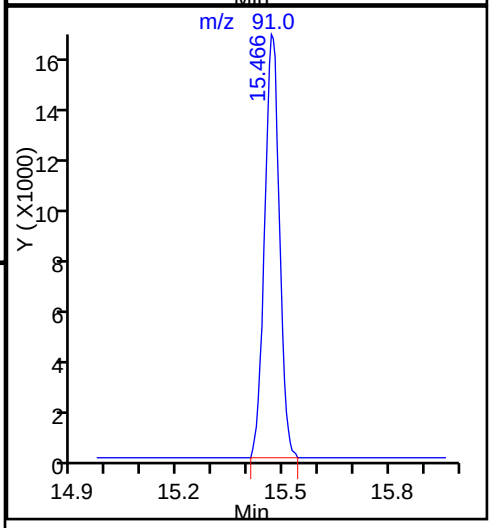
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

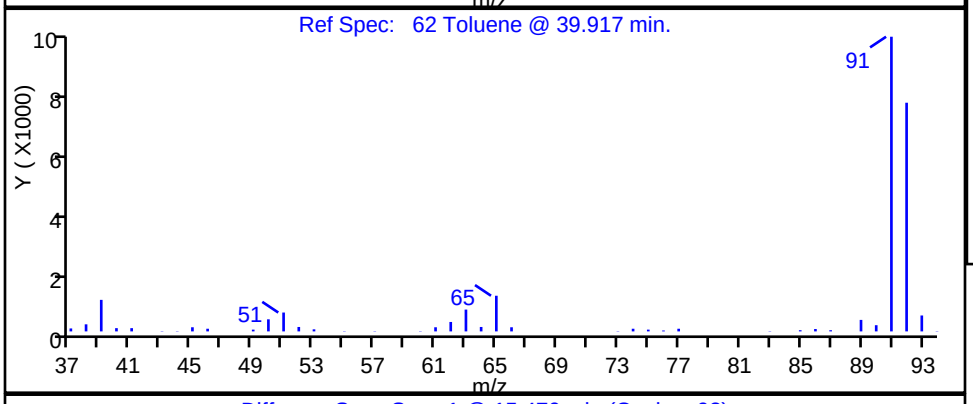
62 Toluene, CAS: 108-88-3

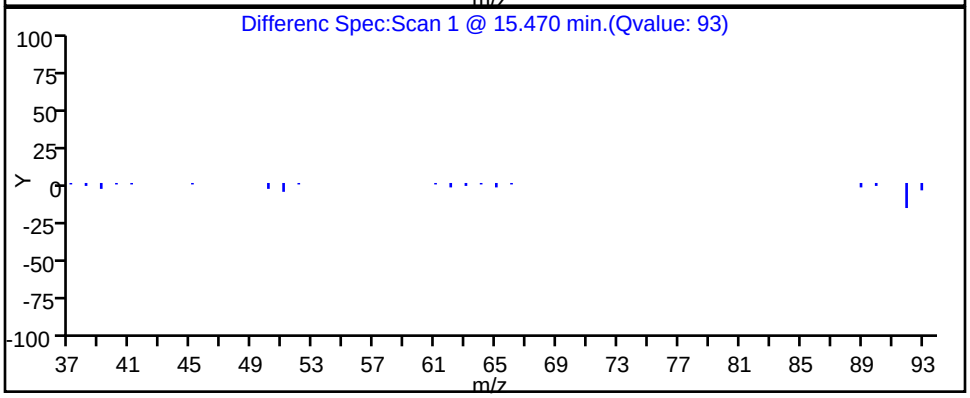












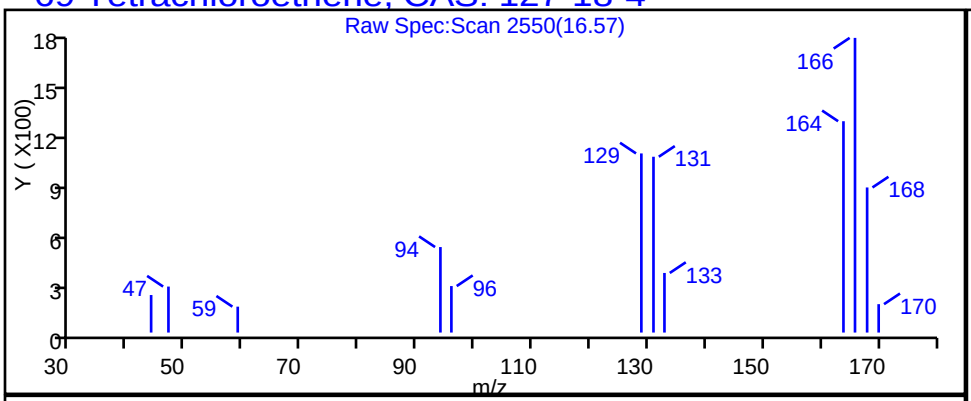
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

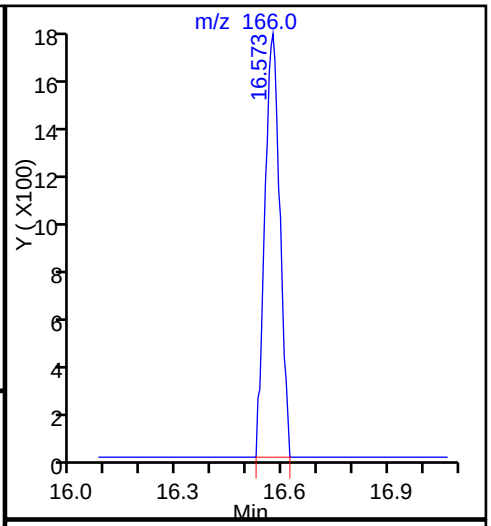
TestAmerica Burlington

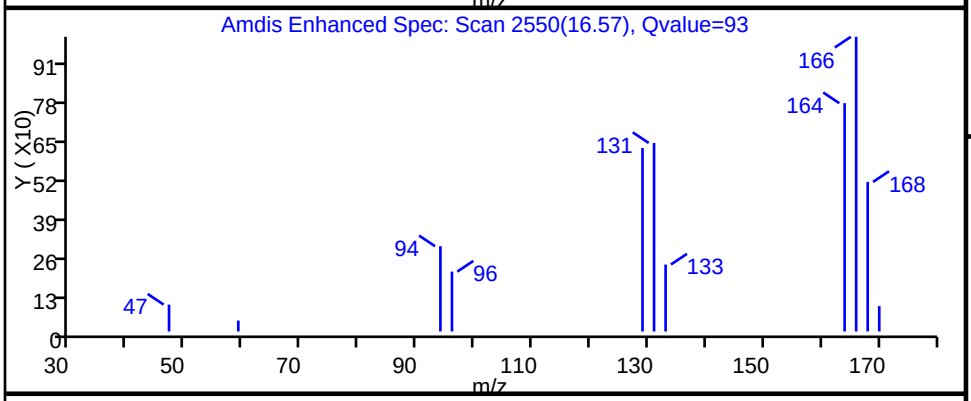
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

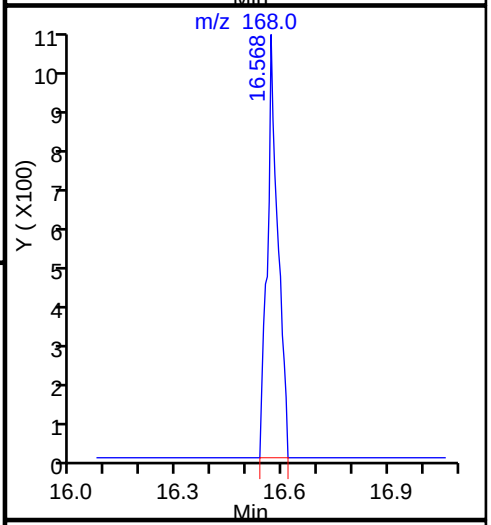
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

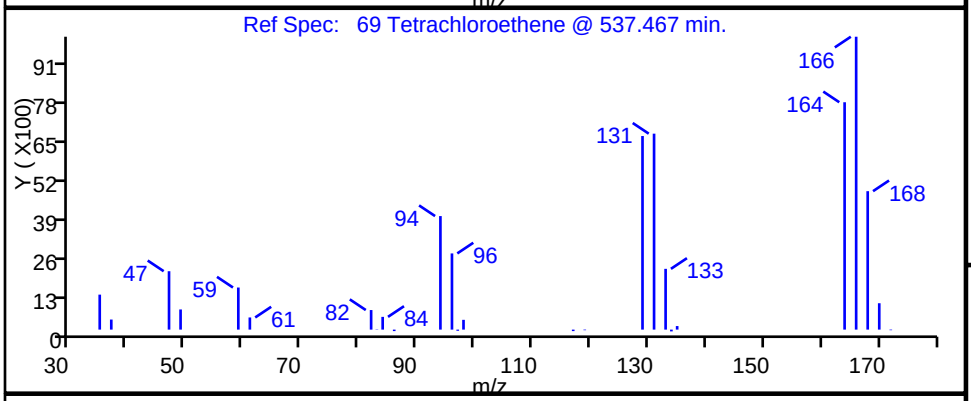
69 Tetrachloroethene, CAS: 127-18-4

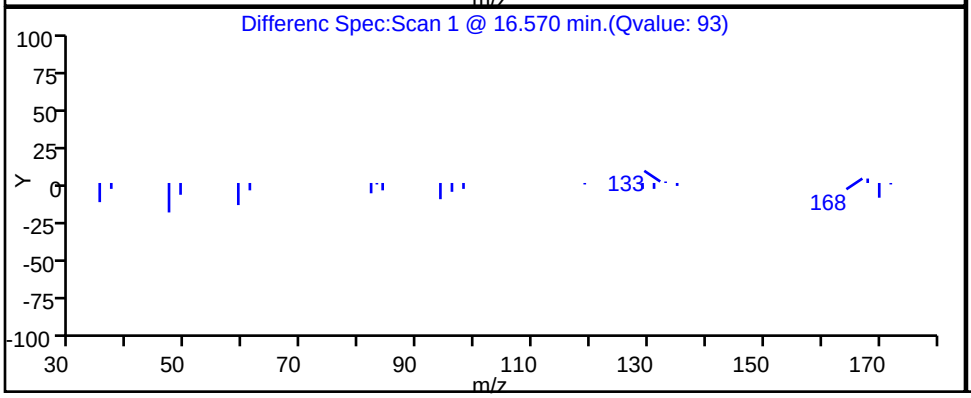


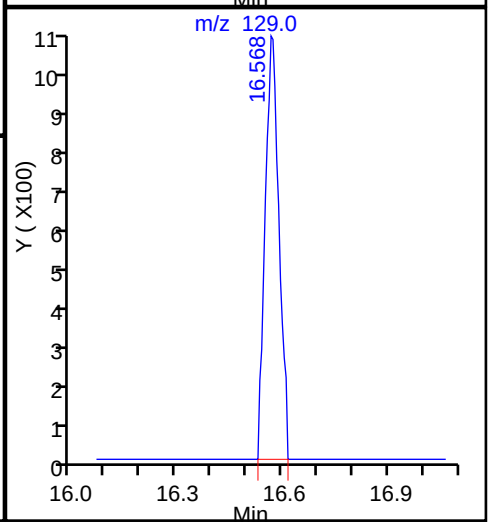












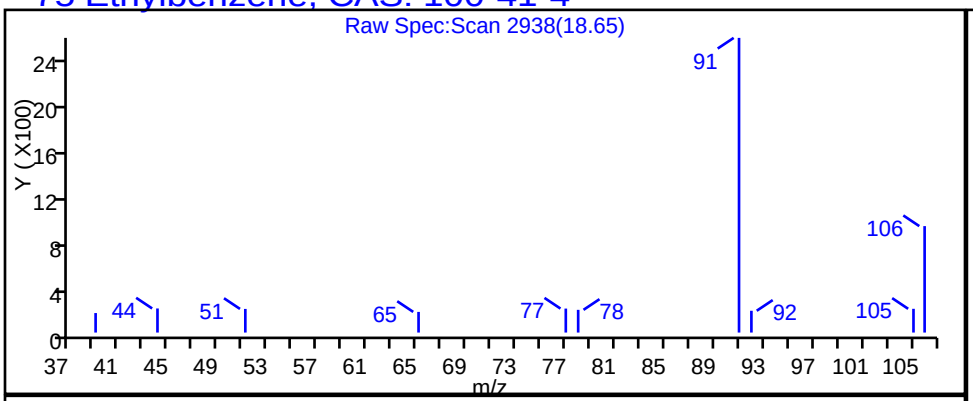
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

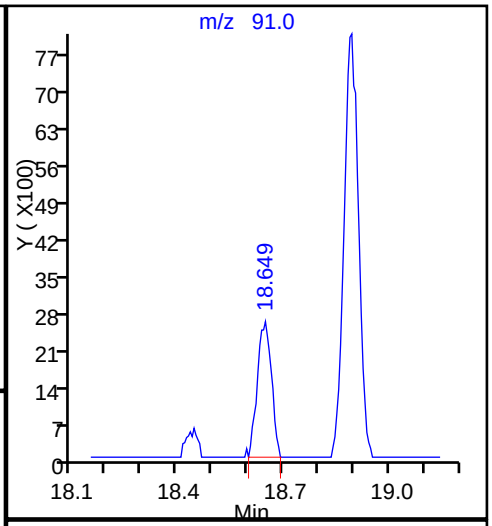
TestAmerica Burlington

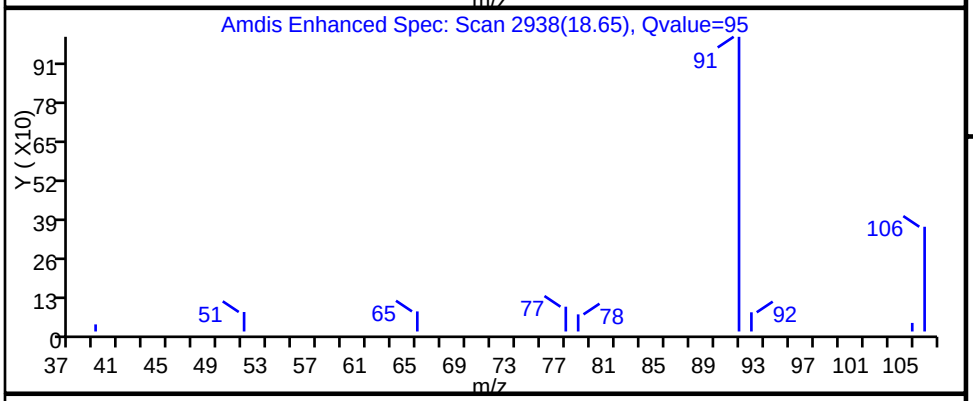
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

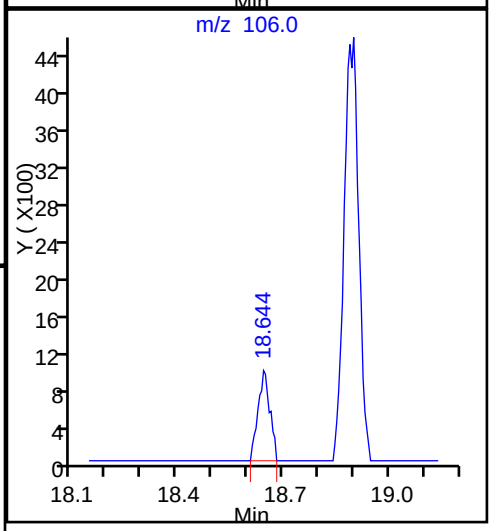
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

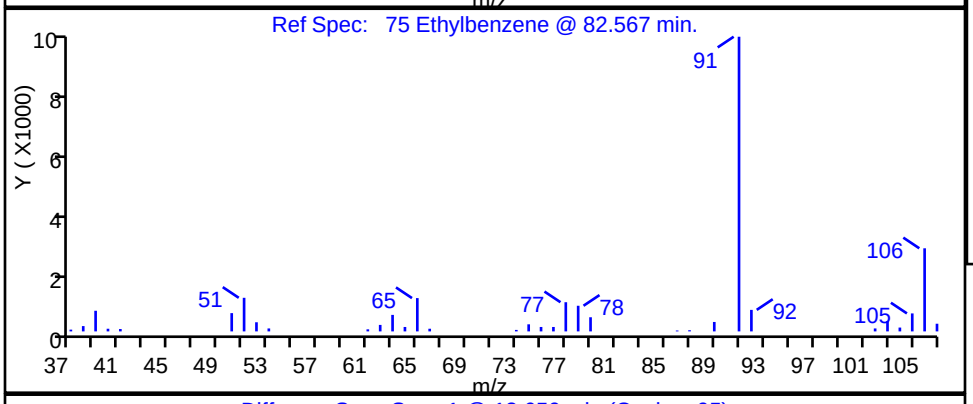
75 Ethylbenzene, CAS: 100-41-4

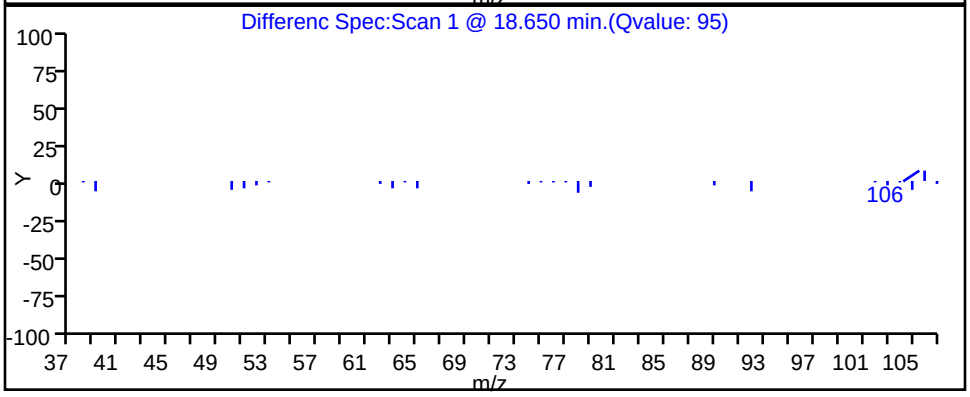












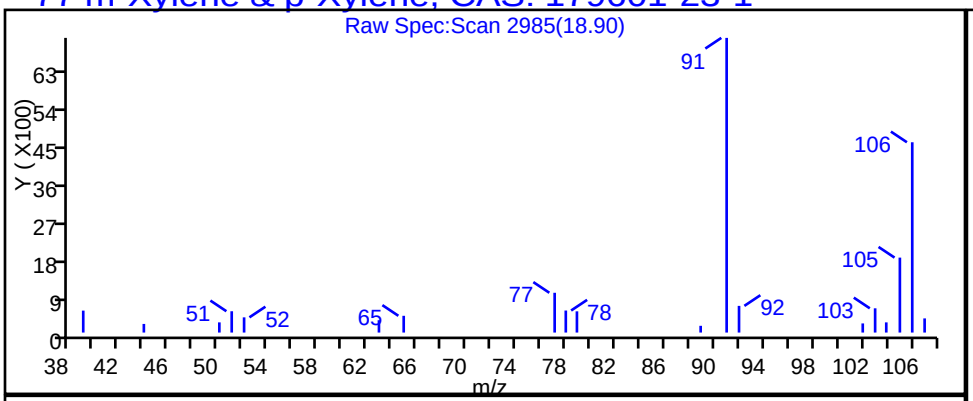
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

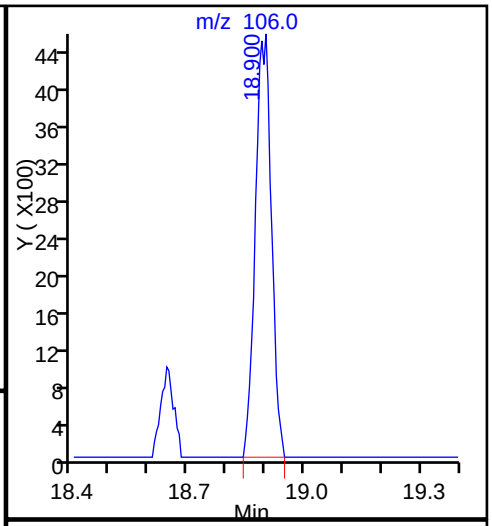
TestAmerica Burlington

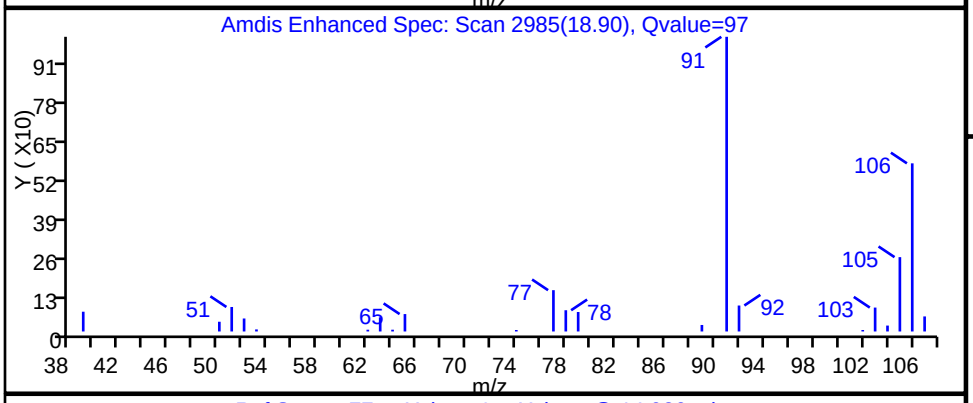
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

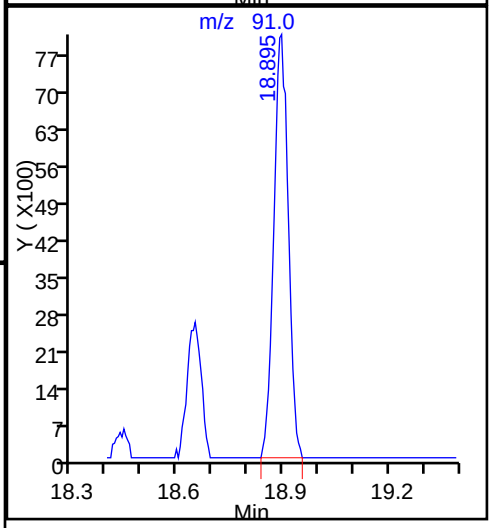
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

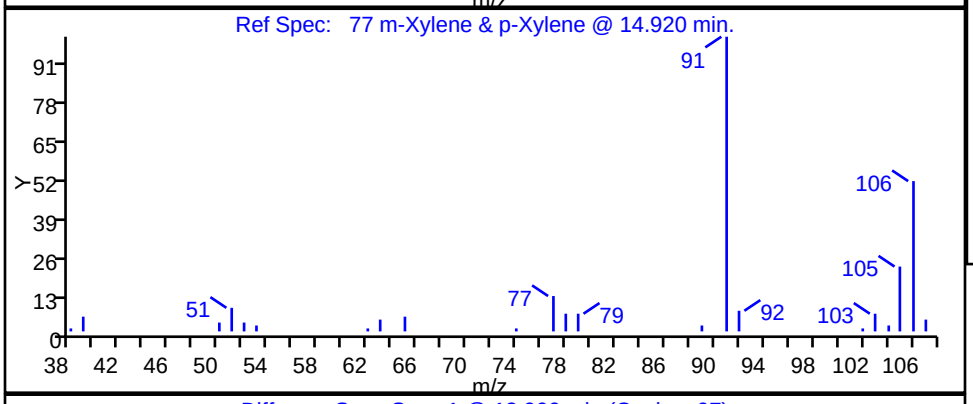
77 m-Xylene & p-Xylene, CAS: 179601-23-1

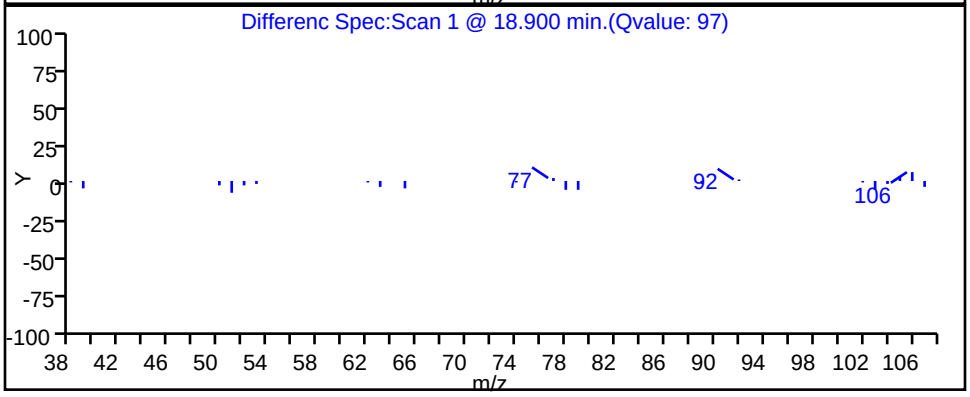












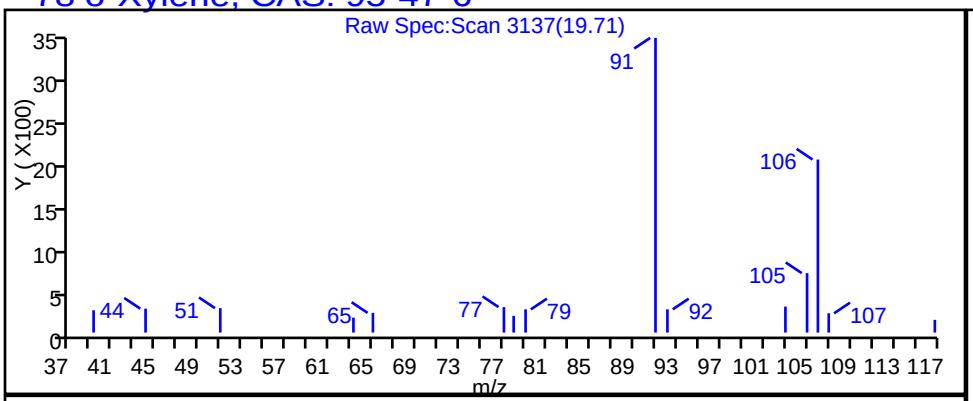
Report Date: 06-Oct-2015 10:22:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

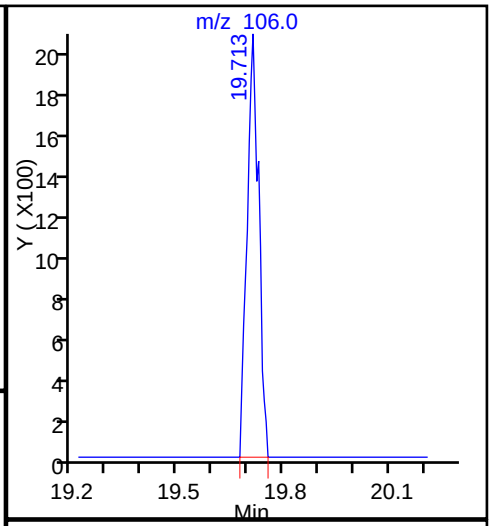
TestAmerica Burlington

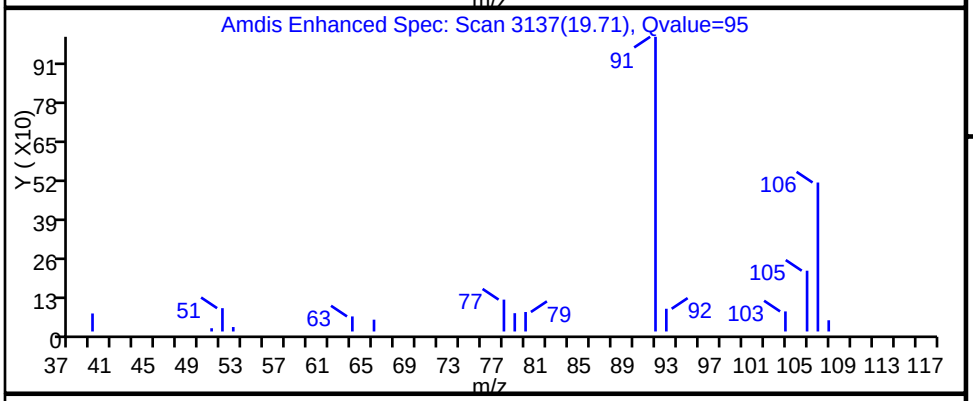
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

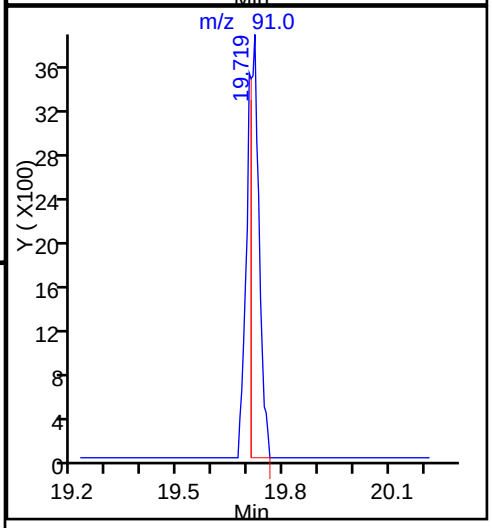
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

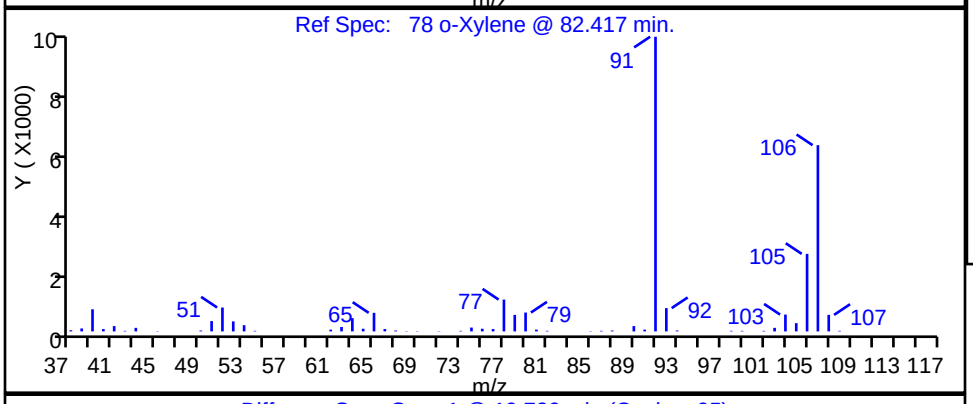
78 o-Xylene, CAS: 95-47-6

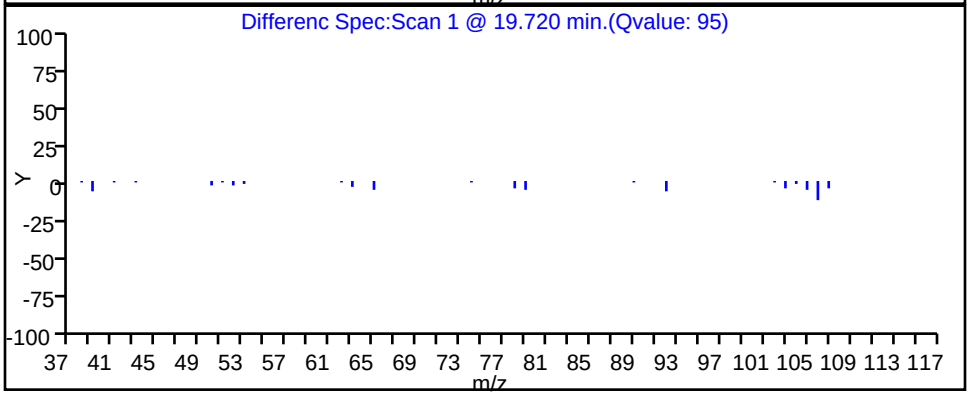












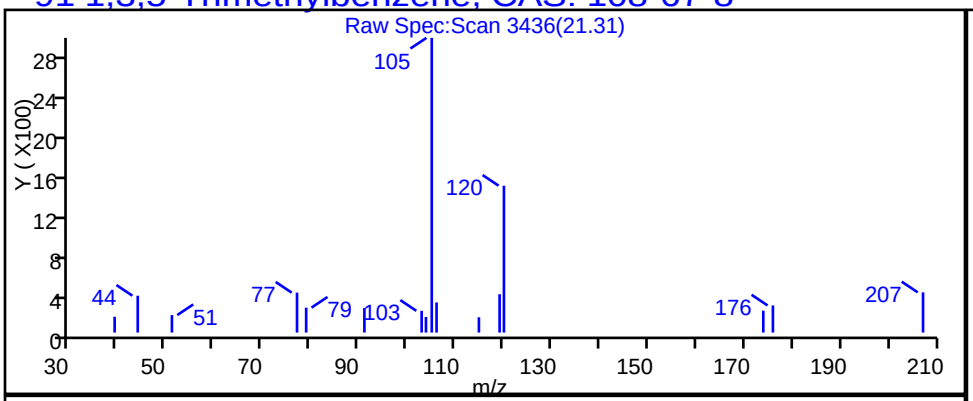
Report Date: 06-Oct-2015 10:22:01 Chrom Revision: 2.2 23-Jul-2015 08:26:08

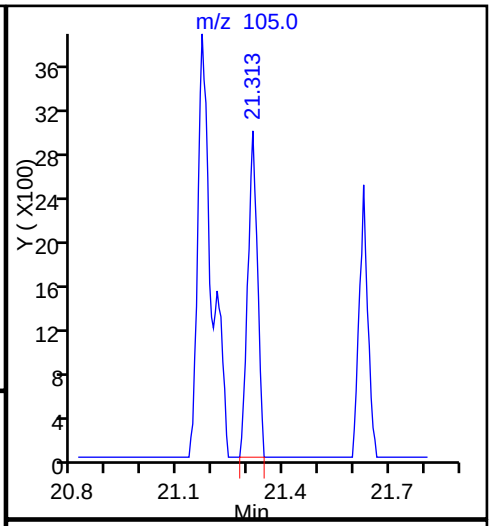
TestAmerica Burlington

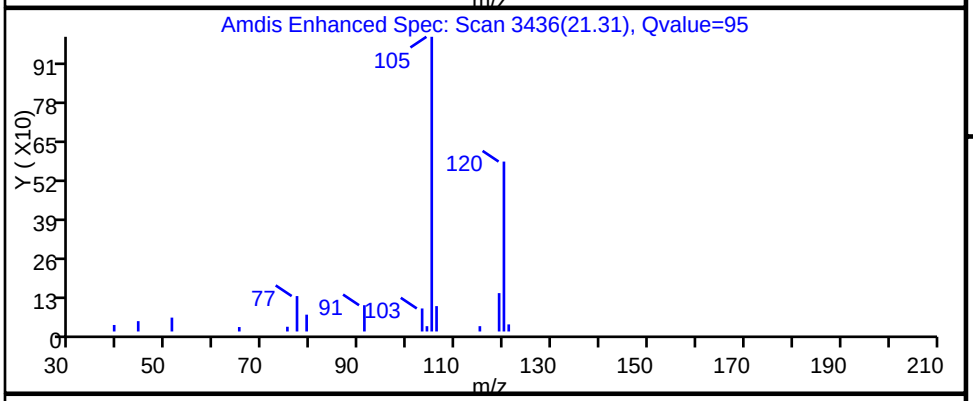
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

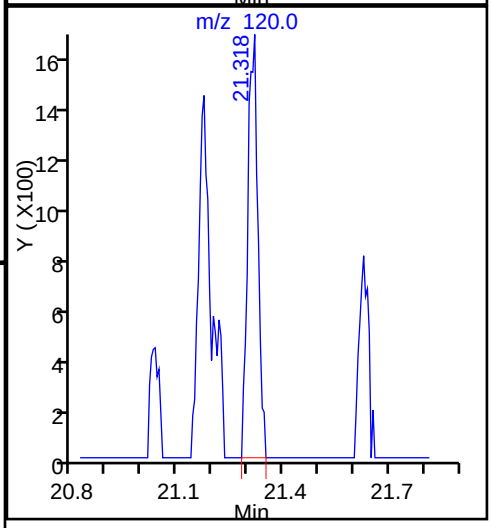
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

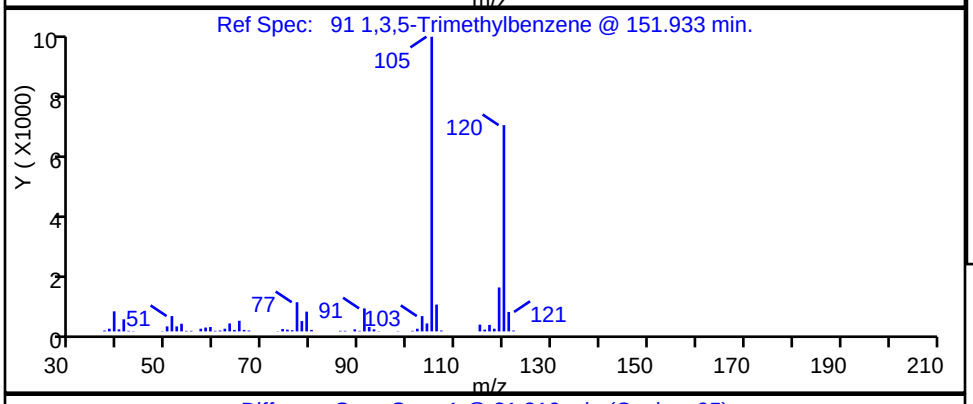
91 1,3,5-Trimethylbenzene, CAS: 108-67-8

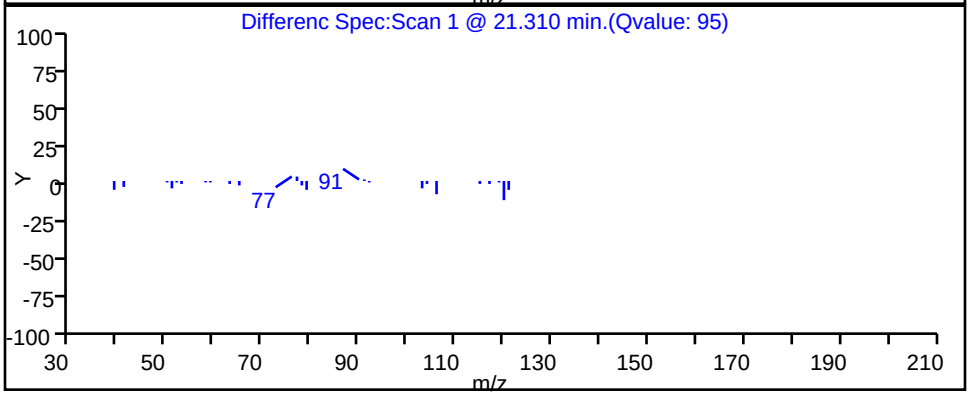












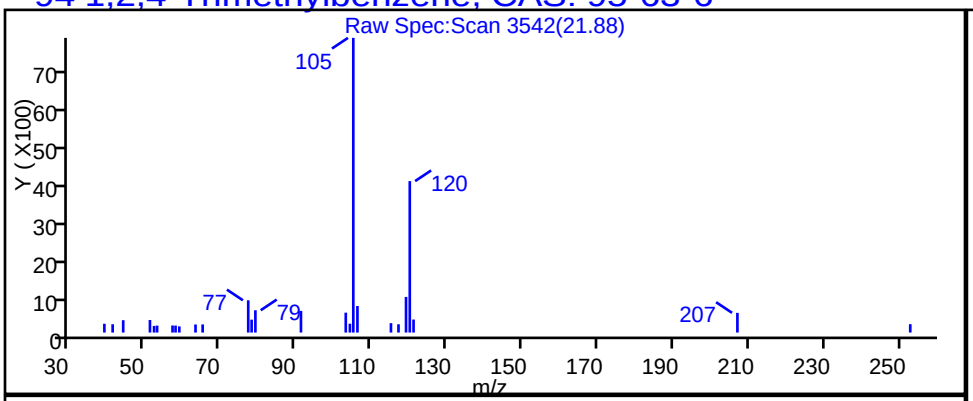
Report Date: 06-Oct-2015 10:22:01 Chrom Revision: 2.2 23-Jul-2015 08:26:08

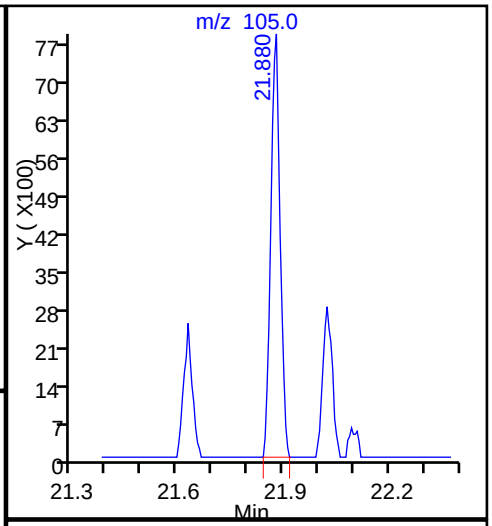
TestAmerica Burlington

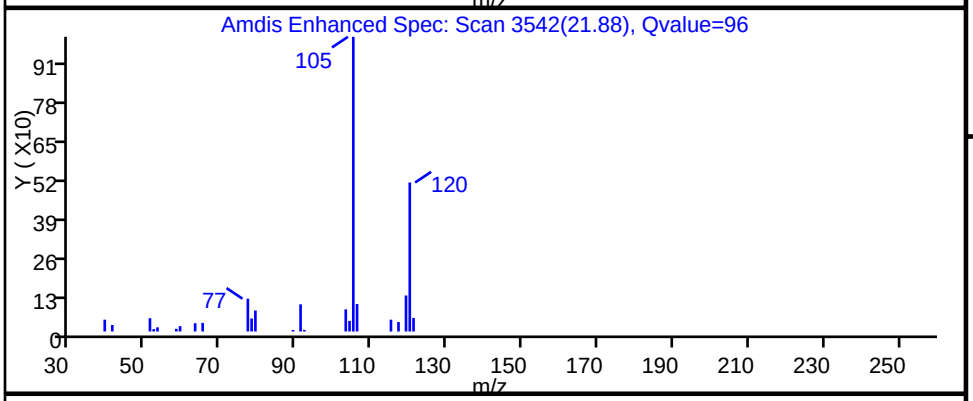
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D

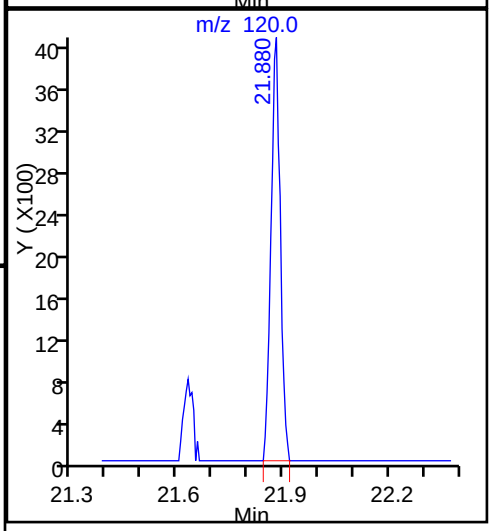
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

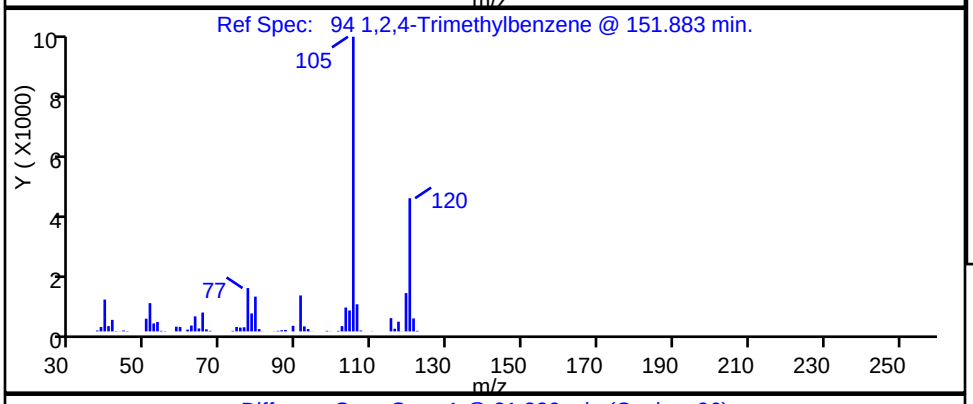
94 1,2,4-Trimethylbenzene, CAS: 95-63-6

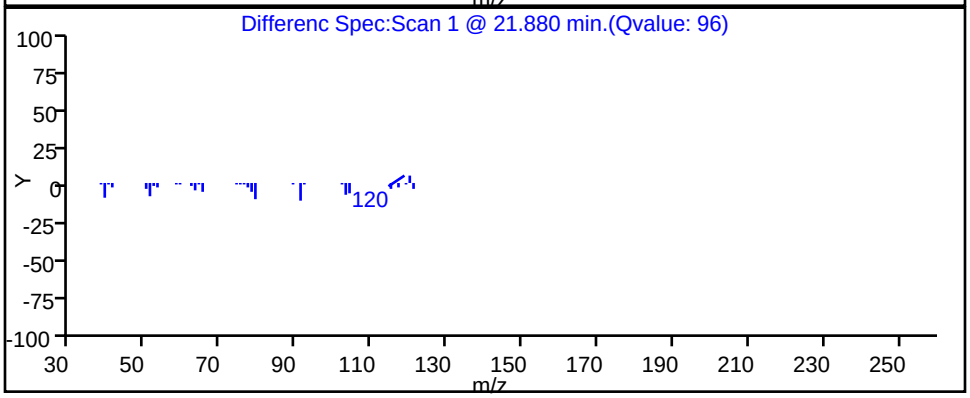












Manual Integration/User Assign Peak Report

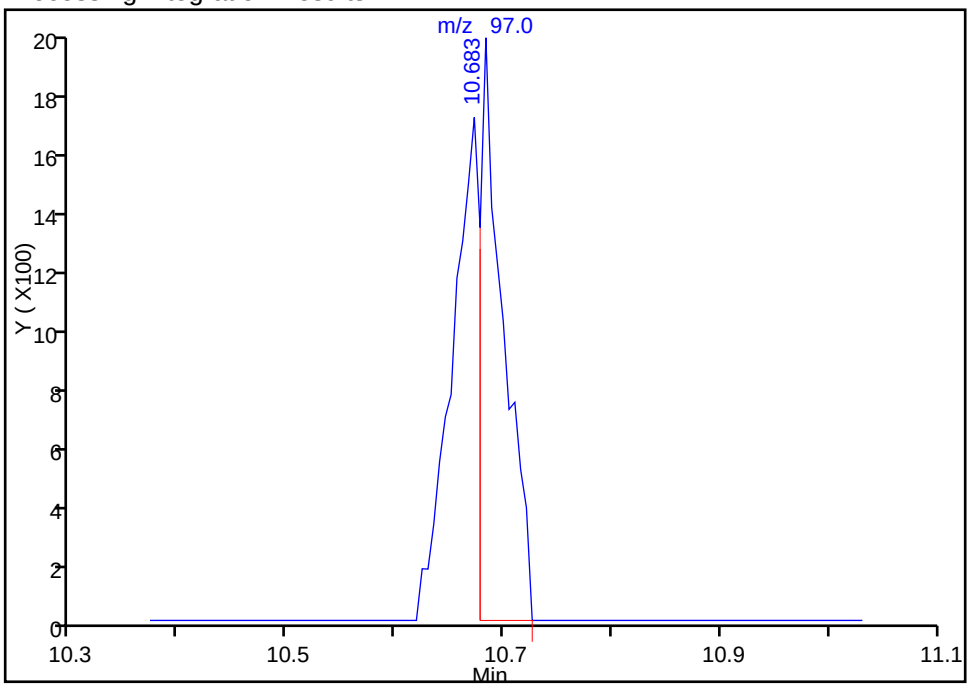
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D				
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 1,1,1-Trichloroethane, CAS: 71-55-6

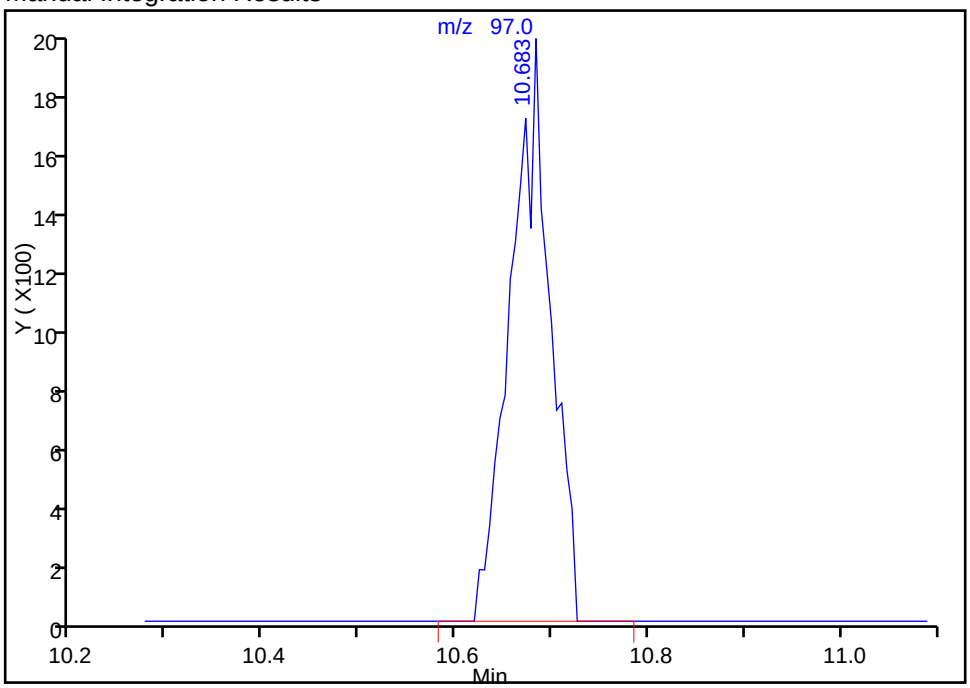
Processing Integration Results

RT: 10.68
Area: 2891
Amount: 0.098269
Amount Units: ppb v/v



Manual Integration Results

RT: 10.68
Area: 5480
Amount: 0.186272
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:21:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

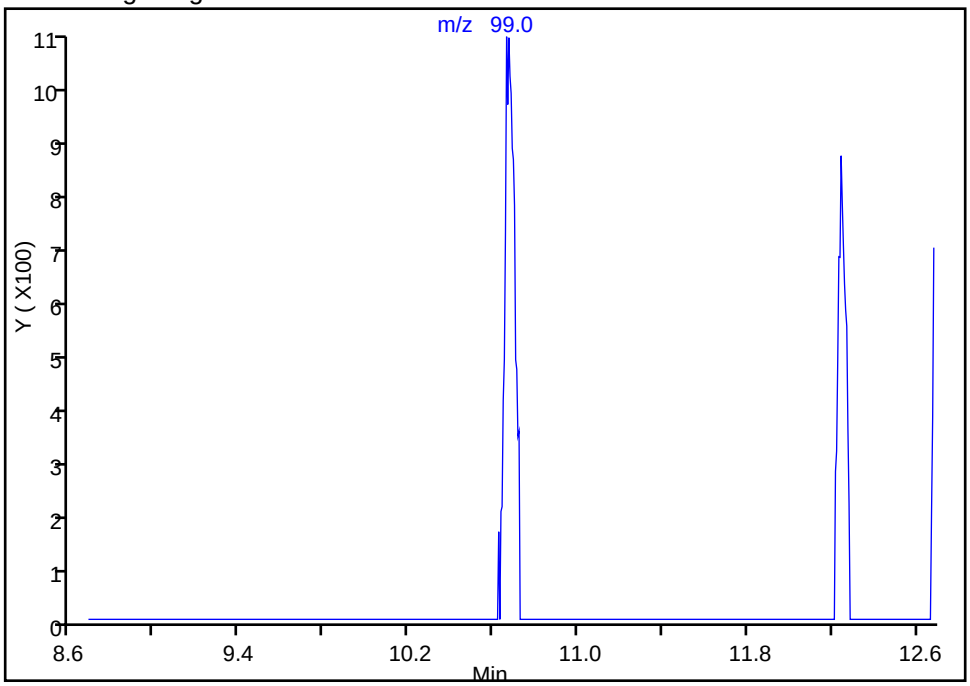
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D				
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 1,1,1-Trichloroethane, CAS: 71-55-6

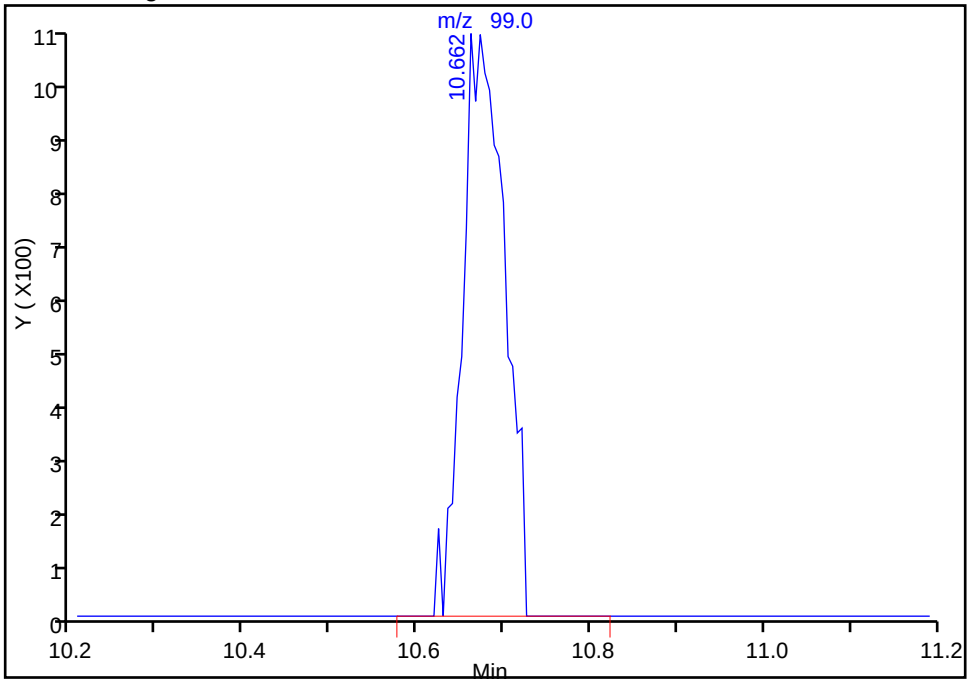
Processing Integration Results

RT: 10.68
Area: 0
Amount: 0.098269
Amount Units: ppb v/v



Manual Integration Results

RT: 10.66
Area: 3695
Amount: 0.186272
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:21:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

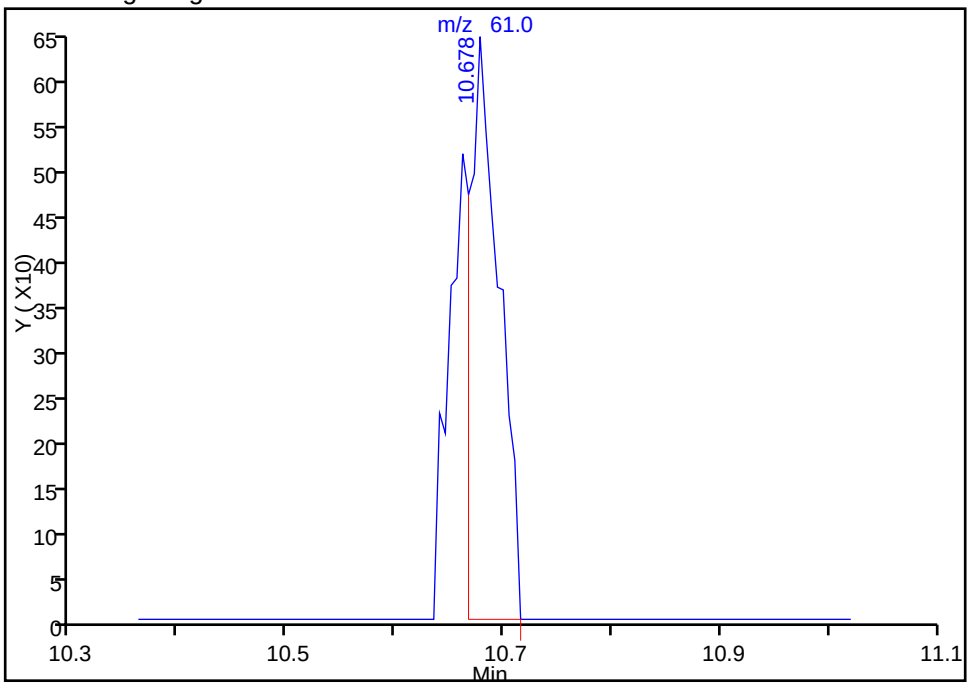
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D				
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 1,1,1-Trichloroethane, CAS: 71-55-6

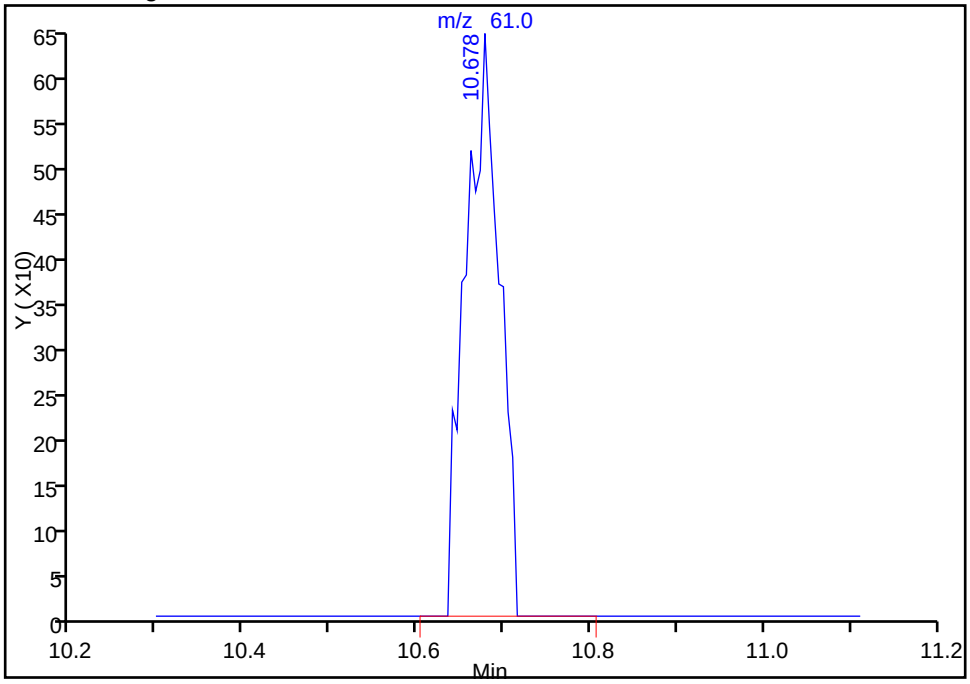
Processing Integration Results

RT: 10.68
Area: 1193
Amount: 0.098269
Amount Units: ppb v/v



Manual Integration Results

RT: 10.68
Area: 1736
Amount: 0.186272
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:21:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

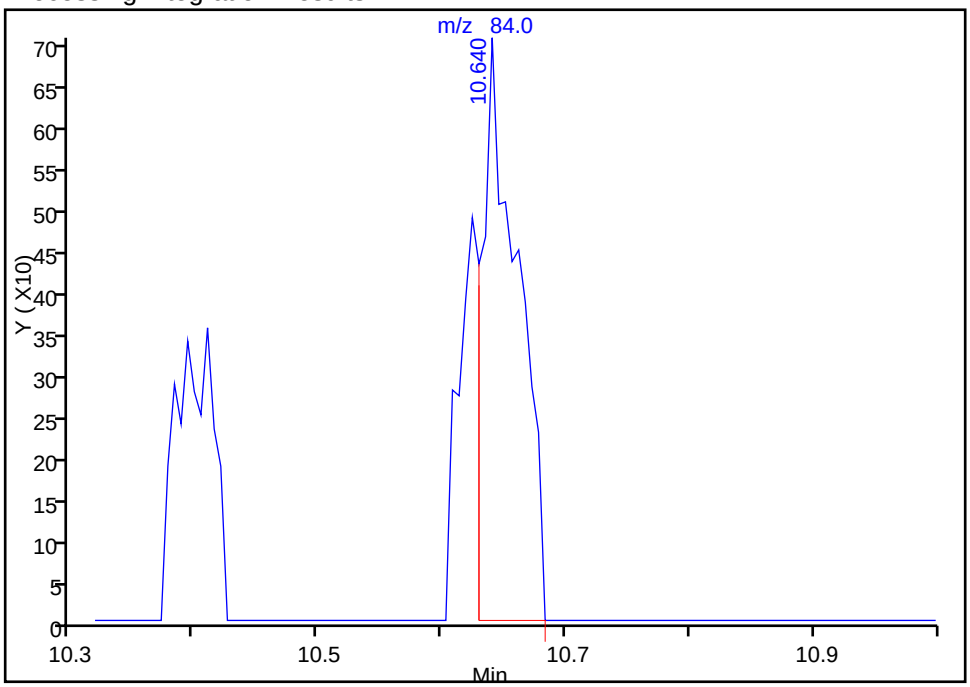
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D				
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

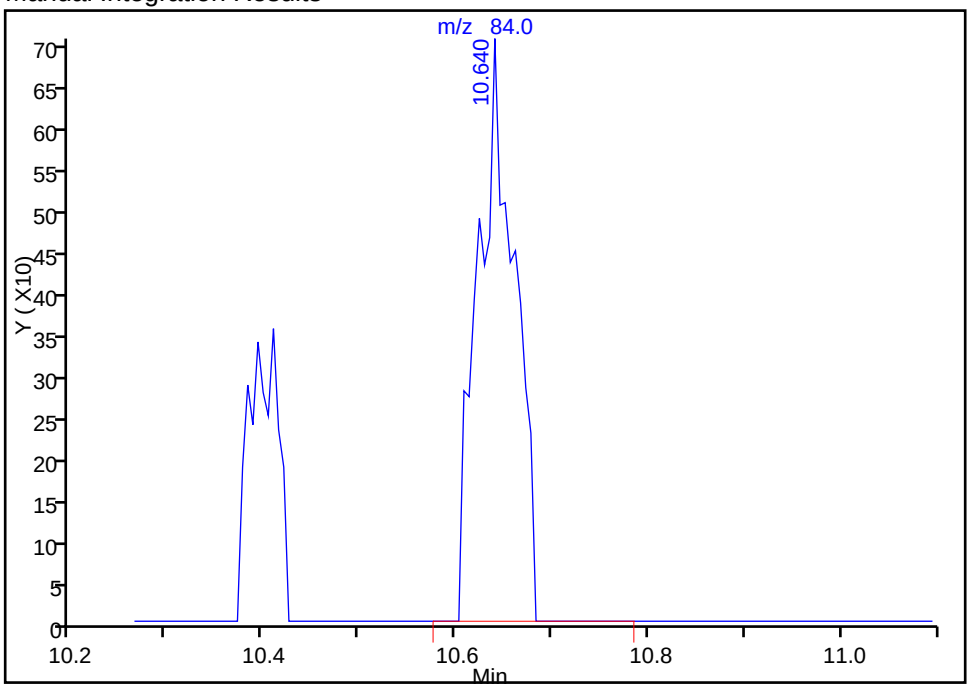
Processing Integration Results

RT: 10.64
Area: 1405
Amount: 0.069559
Amount Units: ppb v/v



Manual Integration Results

RT: 10.64
Area: 1861
Amount: 0.092135
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:21:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

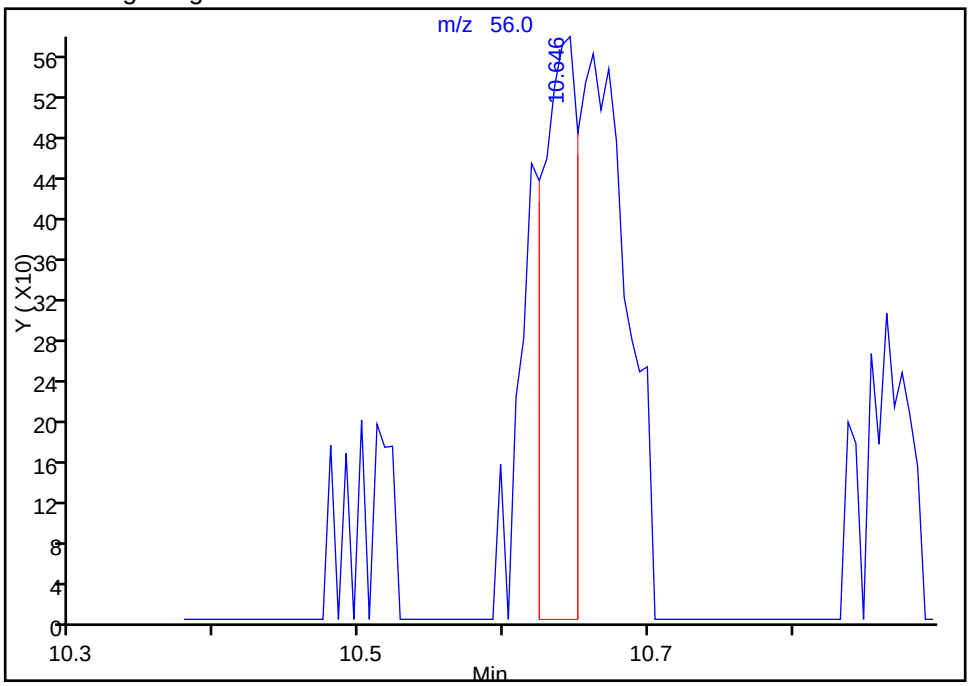
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_19.D				
Injection Date:	05-Oct-2015 23:27:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-3	Lab Sample ID:	200-29972-3		
Client ID:	FR-SS02-092315				
Operator ID:	wrd	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

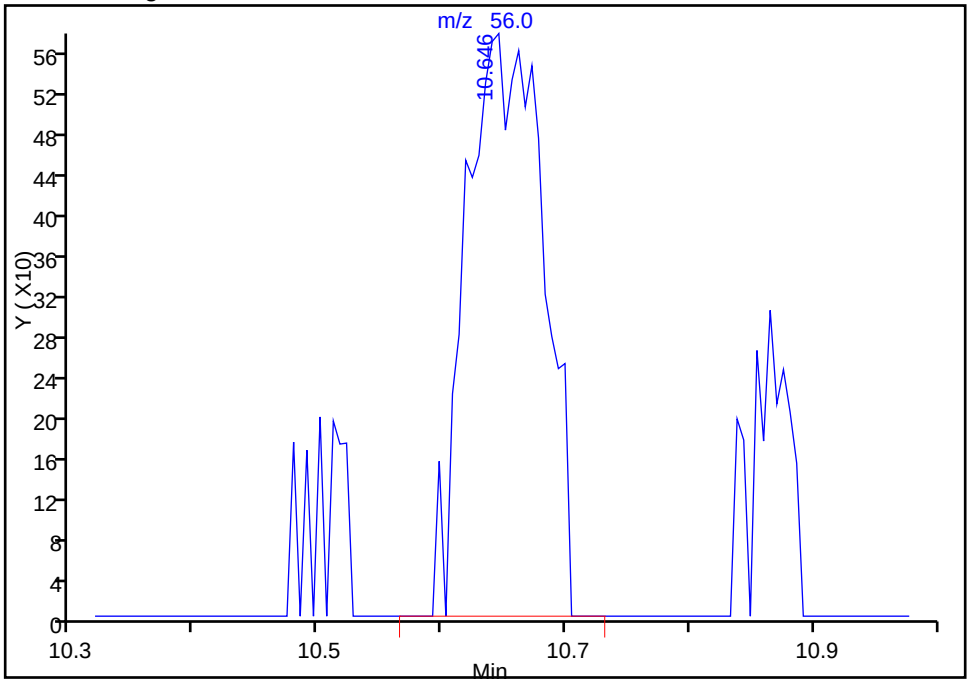
Processing Integration Results

RT: 10.65
Area: 981
Amount: 0.069559
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 2530
Amount: 0.092135
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:21:59
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 | Lab Sample ID: 200-29972-4

Matrix: Air | Lab File ID: 15991_008.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 16:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.54		0.50	0.080
75-45-6	Freon 22	86.47	0.32	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.093
106-97-8	*n-Butane*	*58.12*	*98*	*E*	*0.50*	*0.078*
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.038
76-13-1	Freon TF	187.38	0.081	J	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	22		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	2.3	J	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.14	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.28	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	21		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	3.3		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.046
110-82-7	Cyclohexane	84.16	3.9		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.074		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	12		0.20	0.039
71-43-2	Benzene	78.11	6.2		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 | Lab Sample ID: 200-29972-4

Matrix: Air | Lab File ID: 15991_008.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 16:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	4.2		0.20	0.040
79-01-6	Trichloroethene	131.39	0.044		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	3.0		0.50	0.050
108-88-3	Toluene	92.14	28		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.16	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.55		0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	4.2		0.20	0.033
179601-23-1	m,p-Xylene	106.17	16		0.50	0.071
95-47-6	Xylene, o-	106.17	6.0		0.20	0.037
1330-20-7	Xylene (total)	106.17	22		0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.79		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.99		0.20	0.043
622-96-8	4-Ethyltoluene	120.20	2.5		0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	2.8		0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	11		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.27		0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	1.3		0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 Lab Sample ID: 200-29972-4

Matrix: Air Lab File ID: 15991_008.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	1.2		0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	15		0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 | Lab Sample ID: 200-29972-4

Matrix: Air | Lab File ID: 15991_008.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 16:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.7		2.5	0.40
75-45-6	Freon 22	86.47	1.1	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.1		1.0	0.19
106-97-8	*n-Butane*	*58.12*	*230*	*E*	*1.2*	*0.19*
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.21
76-13-1	Freon TF	187.38	0.62	J	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	51		12	2.0
67-63-0	Isopropyl alcohol	60.10	5.7	J	12	2.4
75-15-0	Carbon disulfide	76.14	0.45	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	0.97	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	73		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	9.6		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.25
110-82-7	Cyclohexane	84.16	13		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.47		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	54		0.93	0.18
71-43-2	Benzene	78.11	20		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 Lab Sample ID: 200-29972-4

Matrix: Air Lab File ID: 15991_008.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	17		0.82	0.16
79-01-6	Trichloroethene	131.39	0.23		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	12		2.0	0.20
108-88-3	Toluene	92.14	100		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.1	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.3		2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	18		0.87	0.14
179601-23-1	m,p-Xylene	106.17	68		2.2	0.31
95-47-6	Xylene, o-	106.17	26		0.87	0.16
1330-20-7	Xylene (total)	106.17	96		3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	3.9		0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	4.9		0.98	0.21
622-96-8	4-Ethyltoluene	120.20	12		0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	14		0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	56		0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.5		1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	7.2		1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 Lab Sample ID: 200-29972-4

Matrix: Air Lab File ID: 15991_008.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	6.9		1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	78		2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d
Lims ID: 200-29972-A-4 Lab Sample ID: 200-29972-4
Client ID: FR-IA02-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 16:16:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-008
Misc. Info.: 29972-04
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:40:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.431	4.426	0.005	99	28922	0.5450	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	95	6780	0.3169	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.009	5.009	0.000	98	5409	0.5218	
6 Butane	43	5.292	5.282	0.010	95	1474311	97.6	E
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	98	15304	0.2541	M
20 1,1,2-Trichloro-1,2,2-trif	101	8.604	8.588	0.016	31	3151	0.0808	
21 1,1-Dichloroethene	96		8.663				ND	
22 Acetone	43	8.941	8.935	0.006	97	404896	21.7	
23 Carbon disulfide	76	9.176	9.160	0.016	95	5980	0.1436	
24 Isopropyl alcohol	45	9.230	9.219	0.011	98	34853	2.34	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.936	9.925	0.011	74	3820	0.2785	
28 2-Methyl-2-propanol	59	10.129	10.112	0.017	92	4906	0.1862	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73	10.385	10.369	0.016	1	1543	0.0336	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.861	10.851	0.010	89	376769	20.7	
34 1,1-Dichloroethane	63		11.428				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.653	0.006	97	28211	3.26	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	71	167116	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84	13.515	13.509	0.006	86	96153	3.92	
44 1,1,1-Trichloroethane	97		13.531				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.782	13.782	0.000	77	4279	0.0740	
46 Isooctane	57	14.184	14.183	0.001	98	773297	11.6	
47 Benzene	78	14.253	14.253	0.000	93	357826	6.24	
48 1,2-Dichloroethane	62		14.419				ND	
49 n-Heptane	43	14.531	14.531	0.000	83	86793	4.19	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	846884	10.0	
53 Trichloroethene	95	15.484	15.478	0.006	86	1283	0.0436	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88	16.200	16.195	0.005	35	1661	0.1653	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.624	17.623	0.001	92	90432	3.00	
65 Toluene	92	17.955	17.960	-0.005	94	1363083	27.6	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166	18.998	18.987	0.011	67	9364	0.1577	M
69 2-Hexanone	43	19.261	19.260	0.001	96	18262	0.5536	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		21.7	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	852851	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.898	20.897	0.001	97	465952	4.22	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	700278	15.7	
79 o-Xylene	106	21.802	21.801	0.001	99	264263	6.01	
80 Styrene	104		21.839				ND	M
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.353	22.352	0.001	95	106026	0.7879	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.973	22.973	0.000	100	160263	0.9889	
88 4-Ethyltoluene	105	23.139	23.144	-0.005	99	365827	2.46	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	94	356328	2.77	
92 tert-Butylbenzene	119		23.722				ND	M
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1449302	11.4	
94 sec-Butylbenzene	105	24.065	24.059	0.006	95	47405	0.2657	M
95 4-Isopropyltoluene	119	24.263	24.268	-0.006	97	206669	1.31	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146		24.482				ND	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91	24.926	24.920	0.006	93	167824	1.25	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180	28.141	28.135	0.006	49	1721	0.0202	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.767	28.767	0.000	99	2414318	15.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003	Amount Added:	20.00	Units: mL	Run Reagent

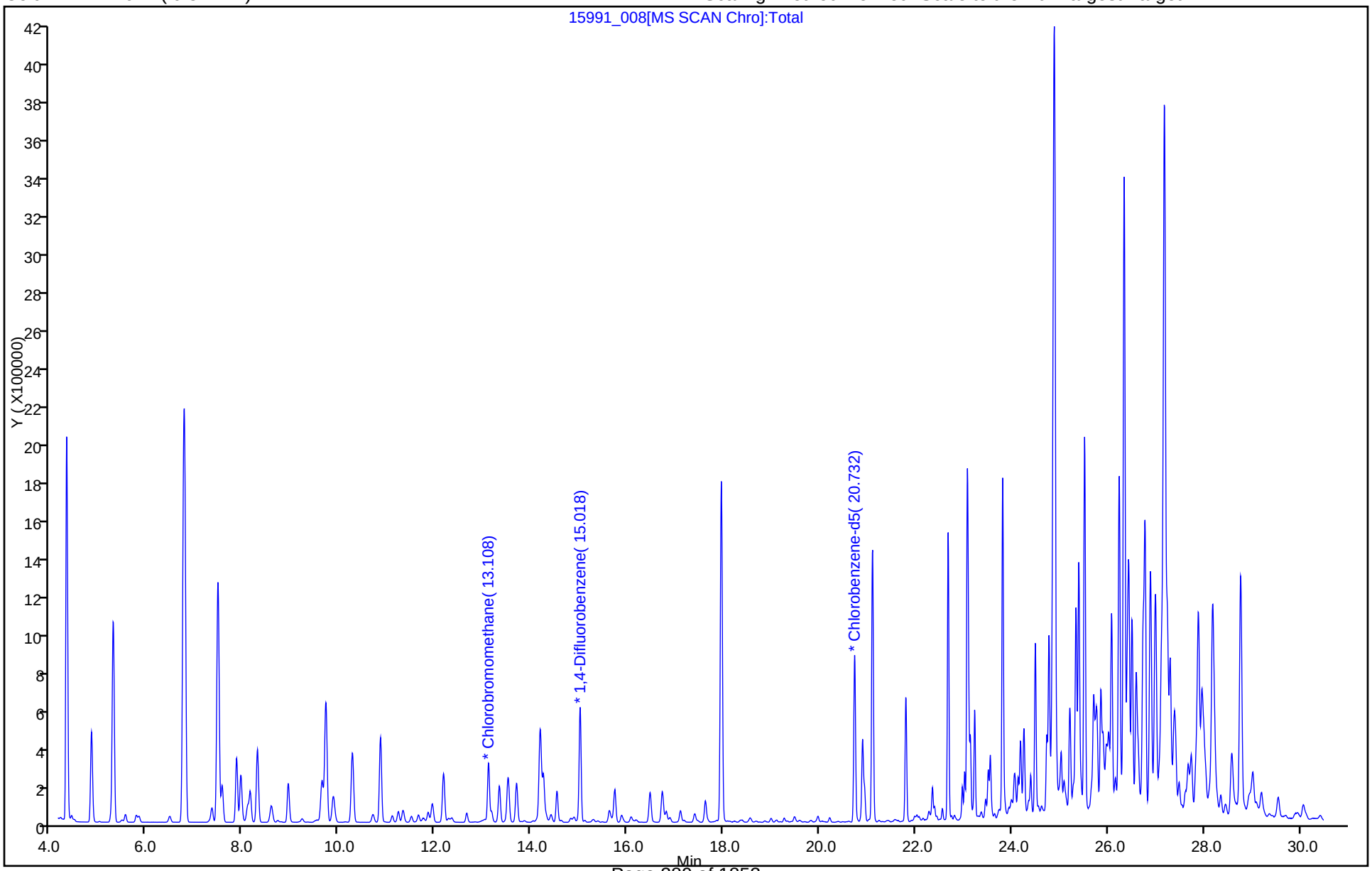
Report Date: 30-Sep-2015 14:17:01 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4	Worklist Smp#:	8
Client ID:	FR-IA02-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

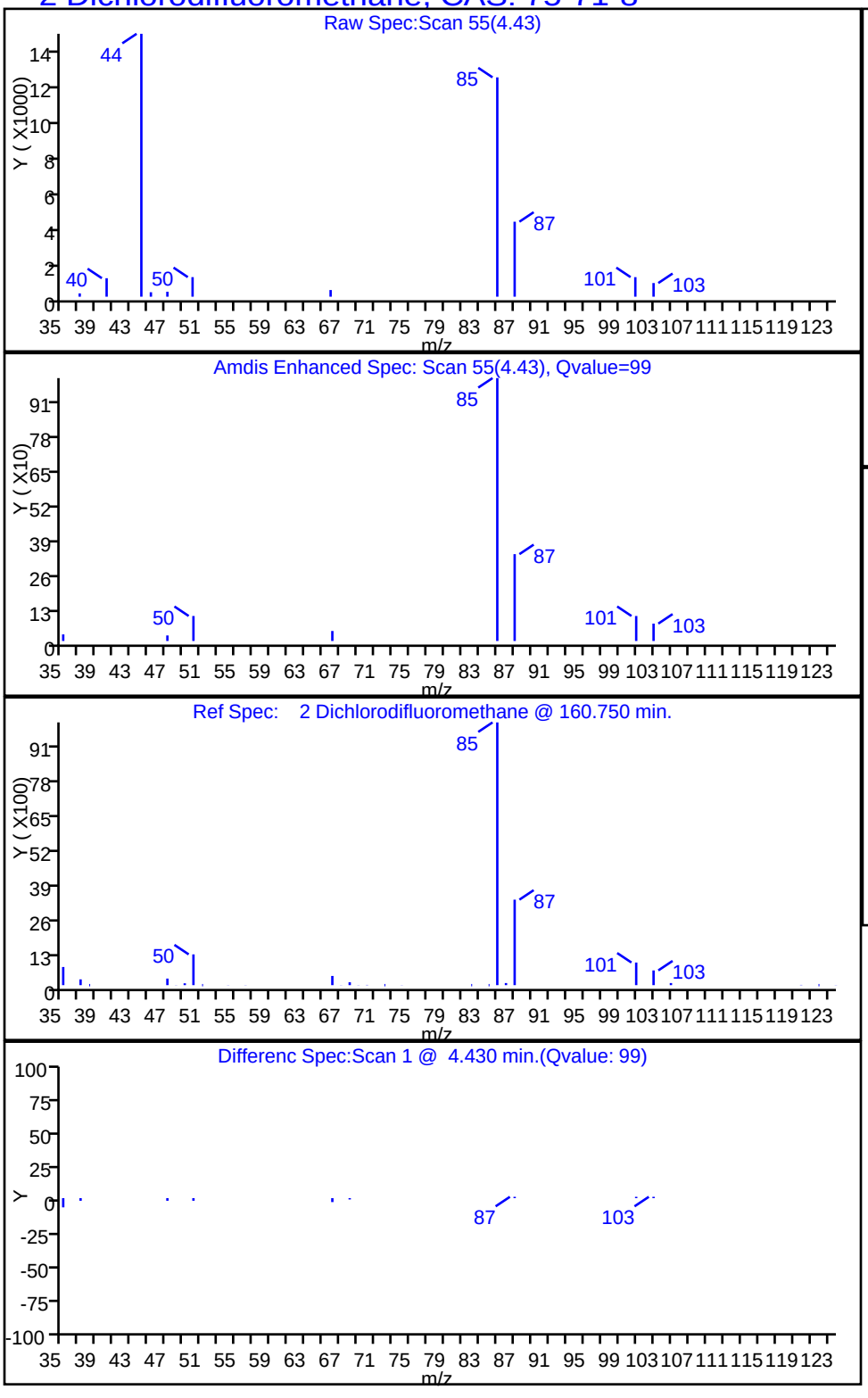


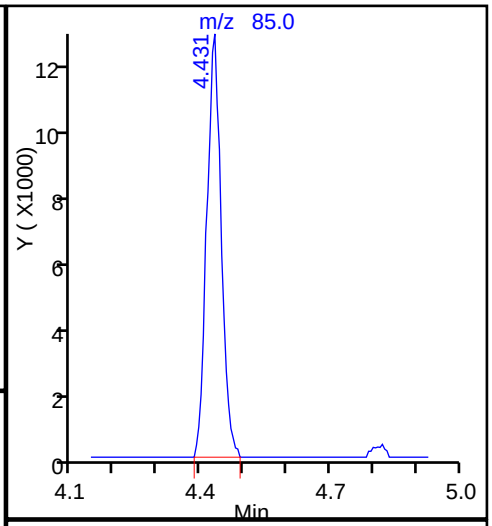
Report Date: 30-Sep-2015 14:17:01 Chrom Revision: 2.2 23-Jul-2015 08:26:08

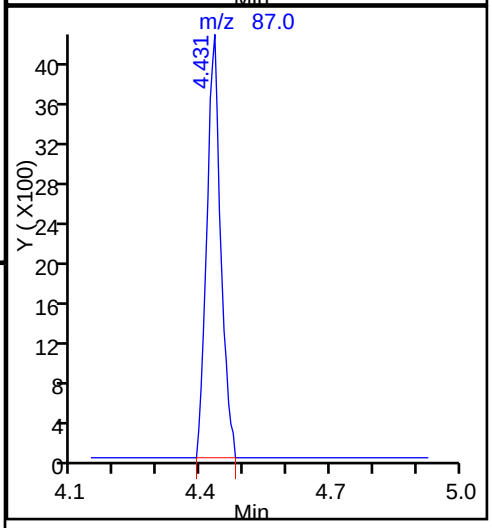
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8







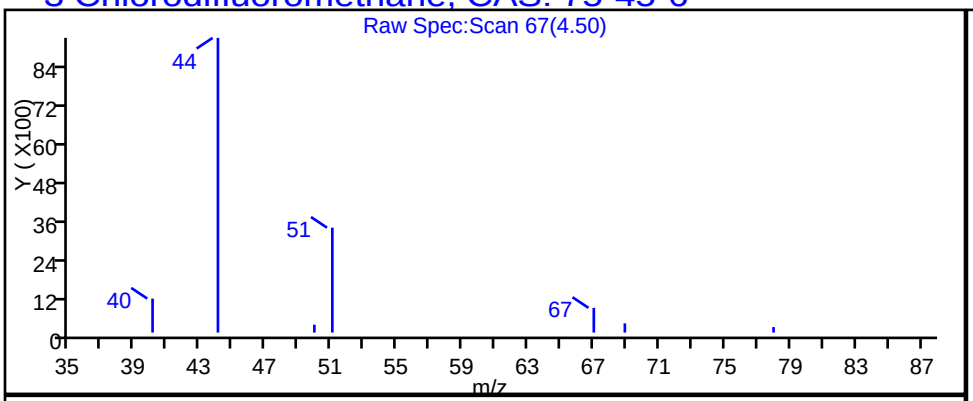
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

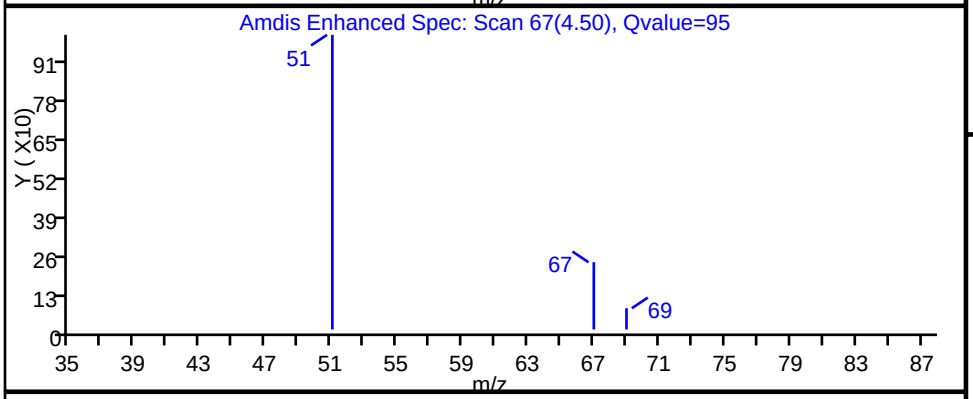
TestAmerica Burlington

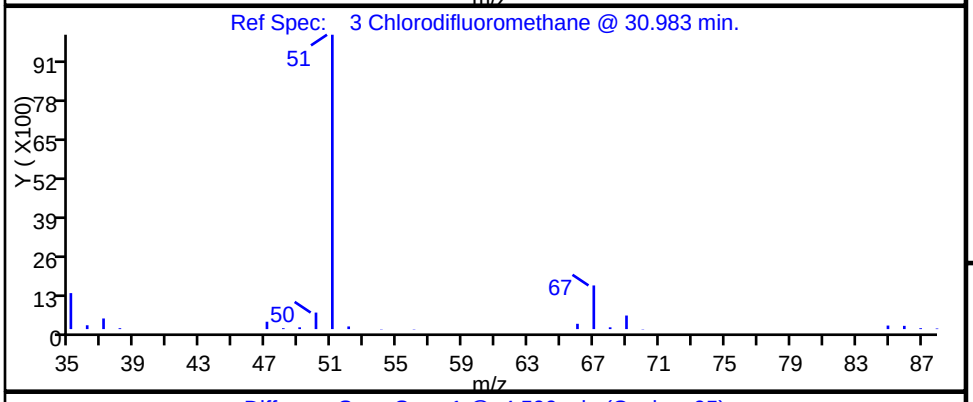
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

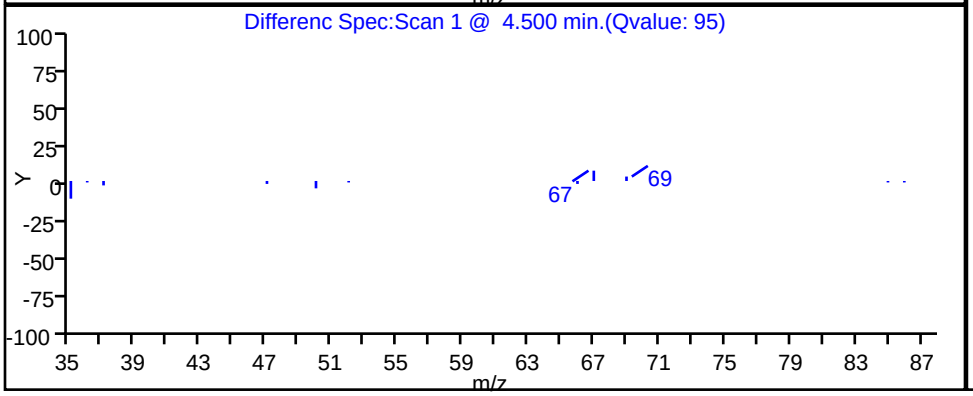
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

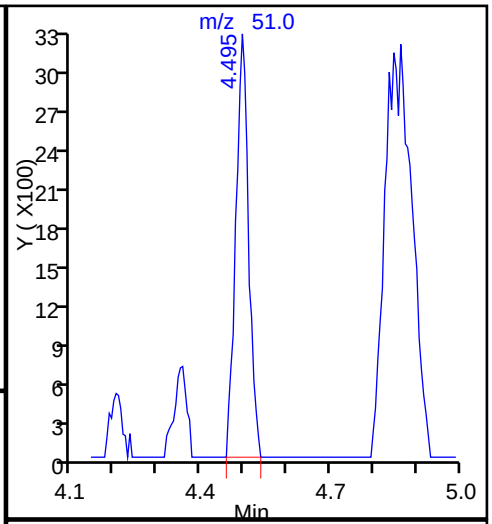
3 Chlorodifluoromethane, CAS: 75-45-6

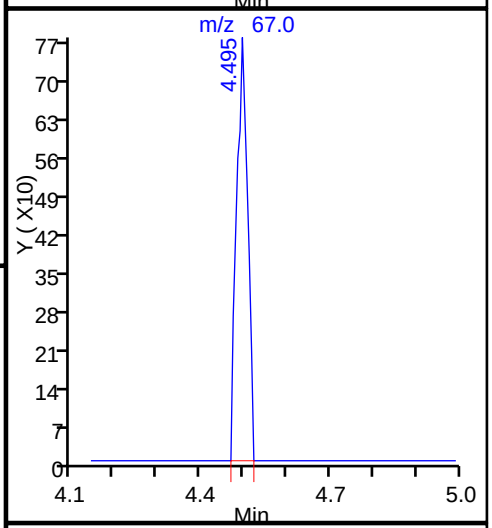


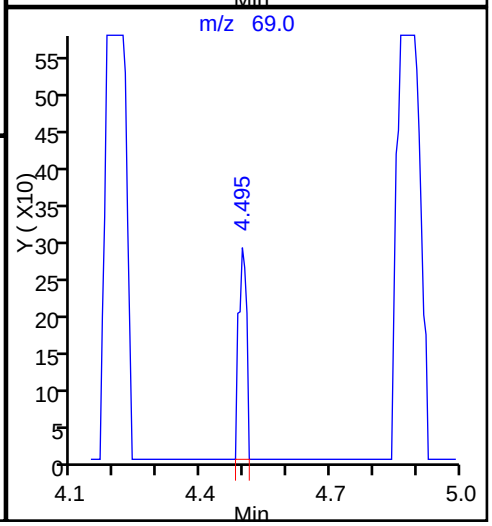












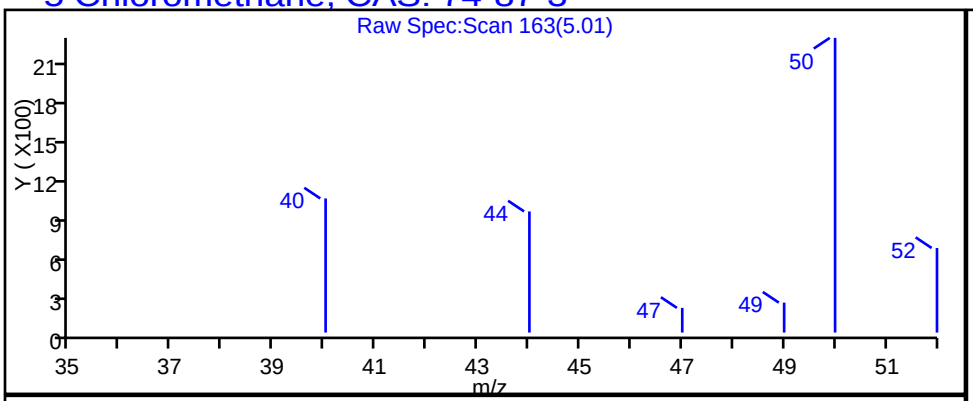
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

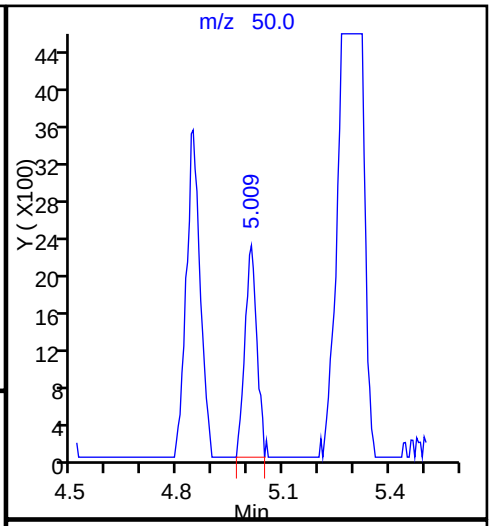
TestAmerica Burlington

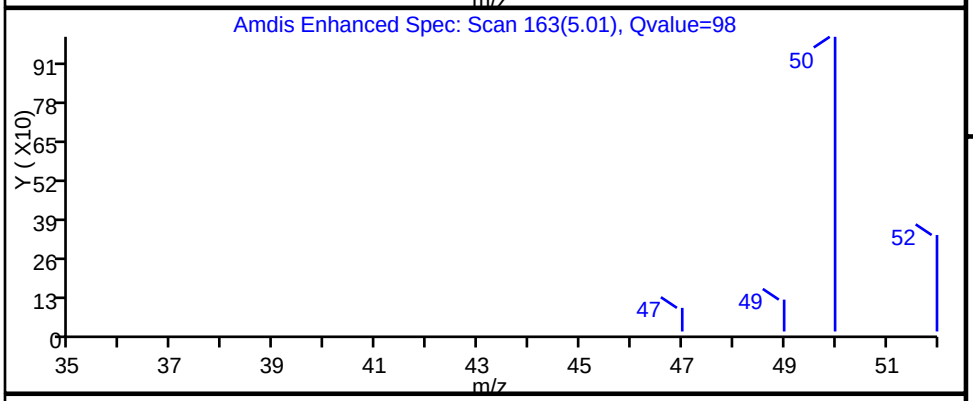
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

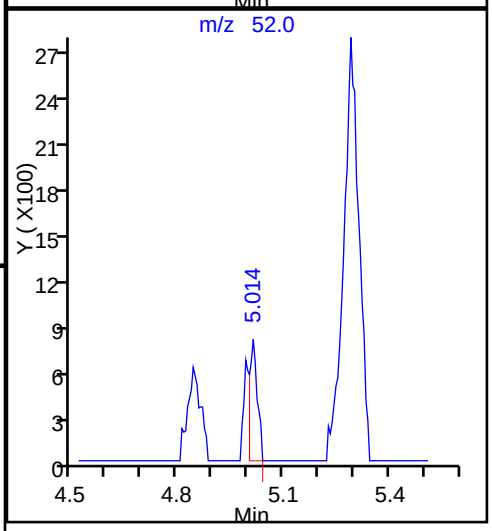
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

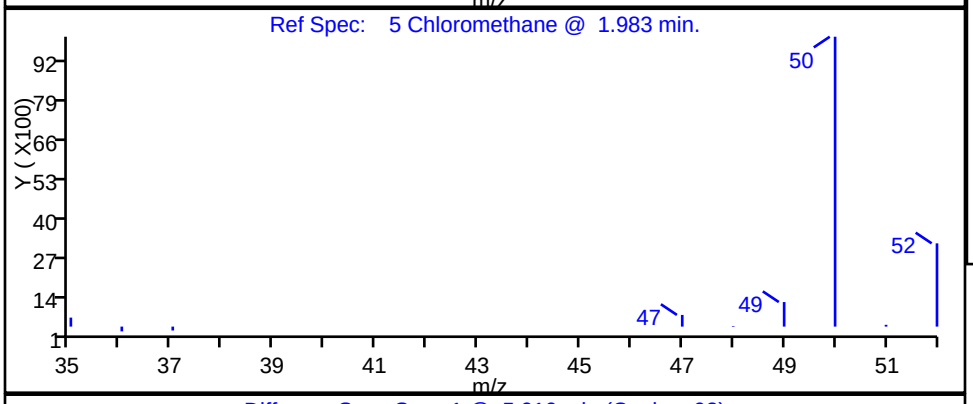
5 Chloromethane, CAS: 74-87-3

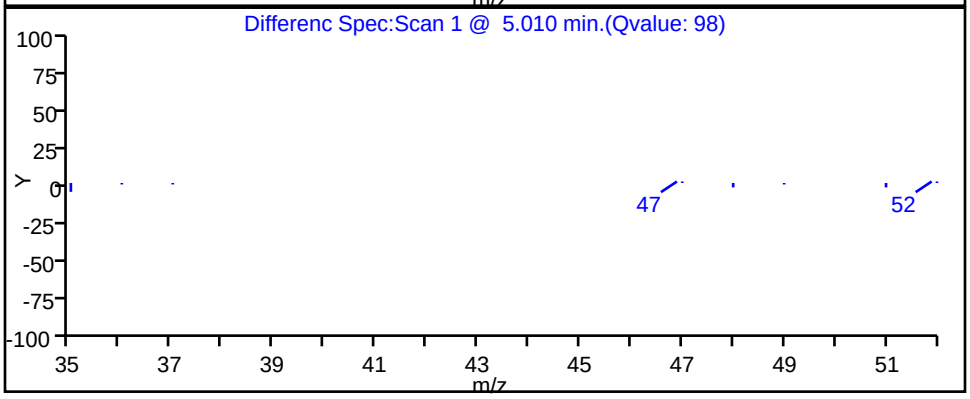












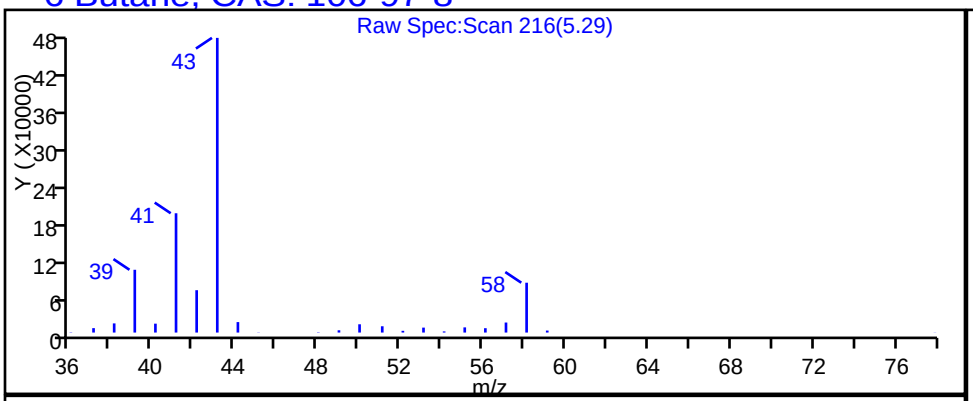
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

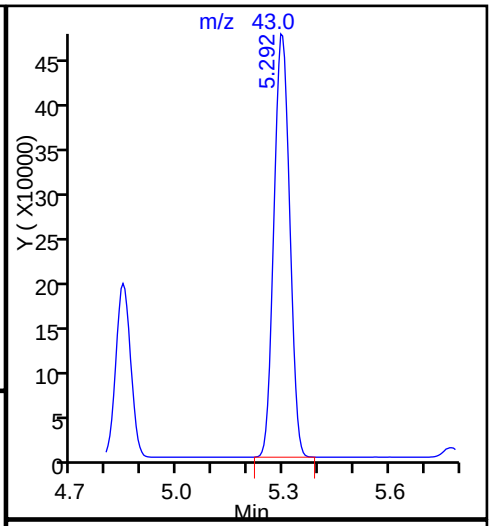
TestAmerica Burlington

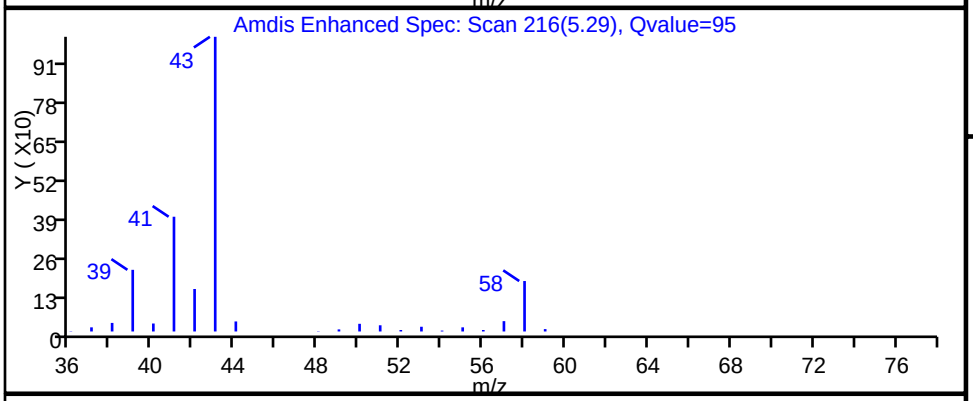
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

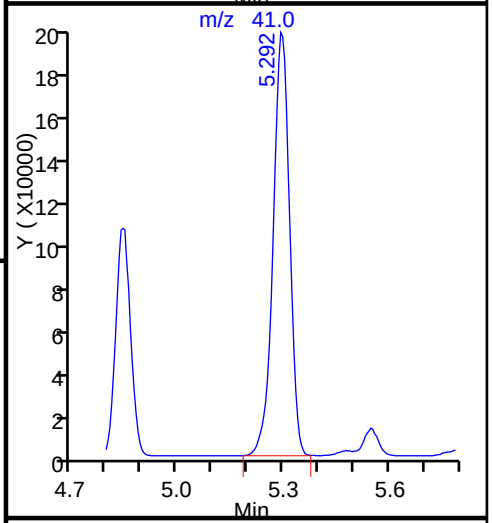
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

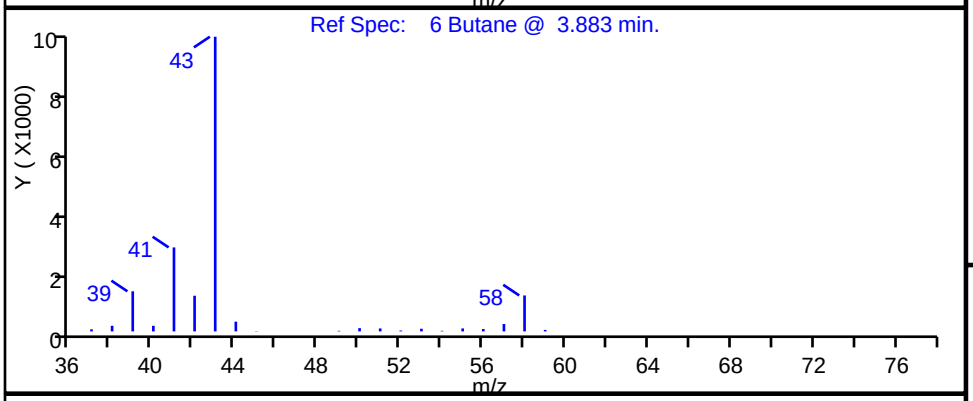
6 Butane, CAS: 106-97-8

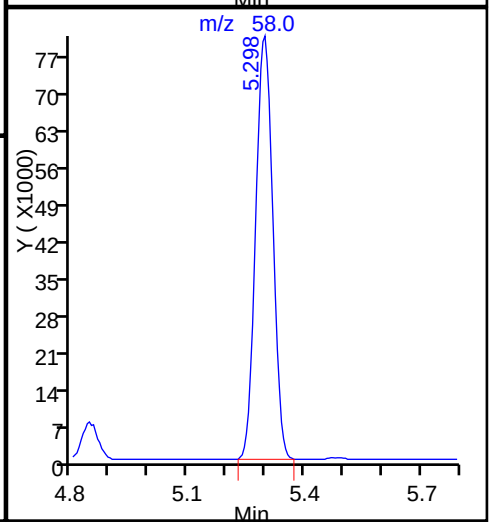


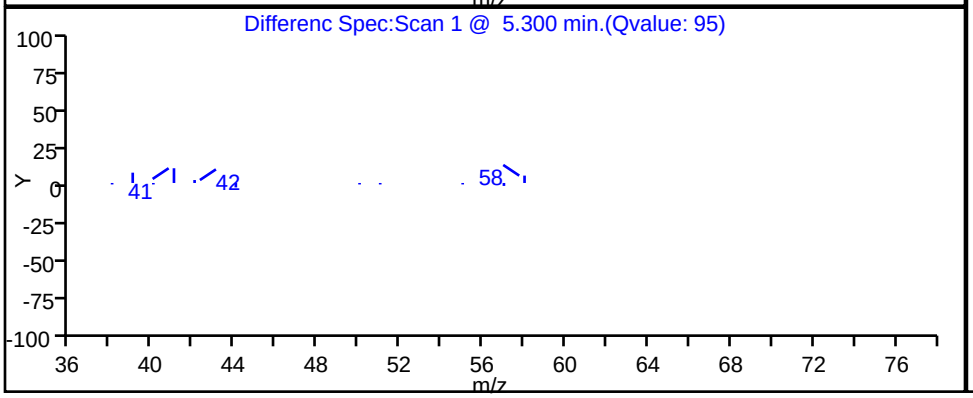












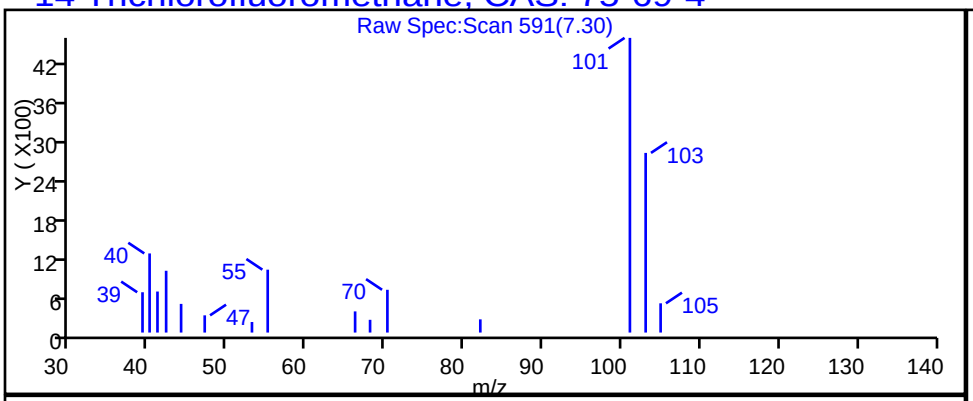
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

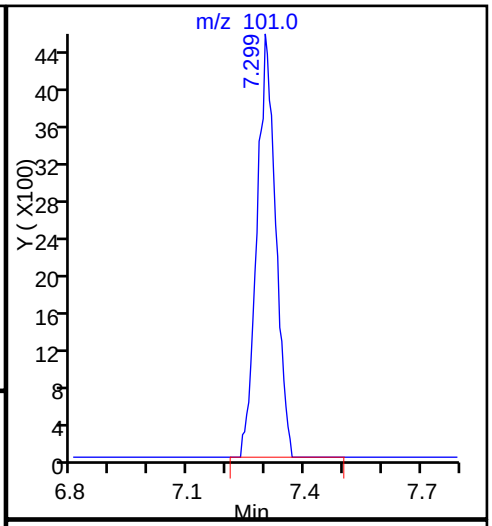
TestAmerica Burlington

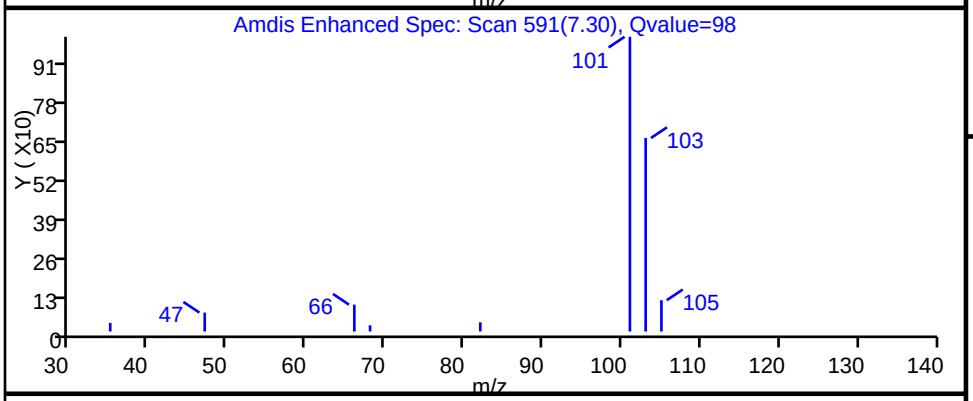
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

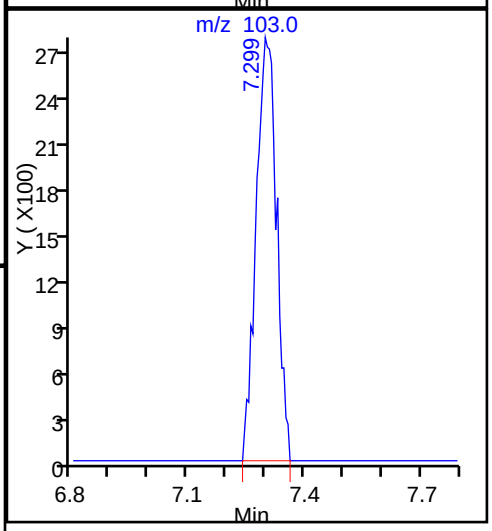
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

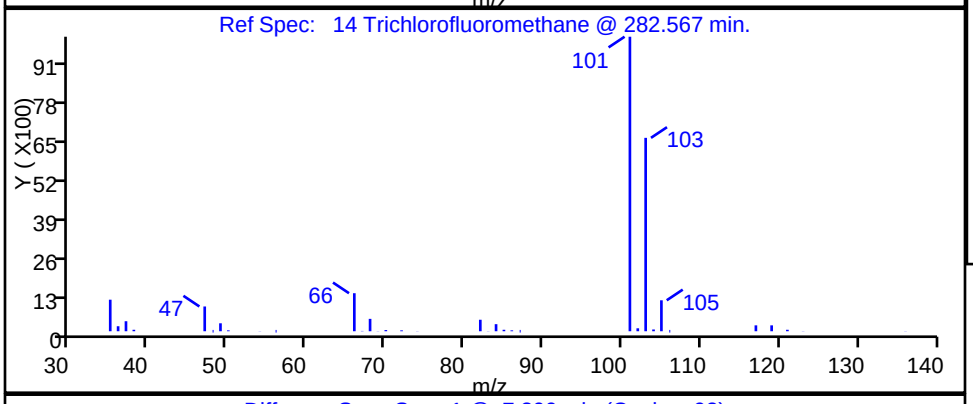
14 Trichlorofluoromethane, CAS: 75-69-4

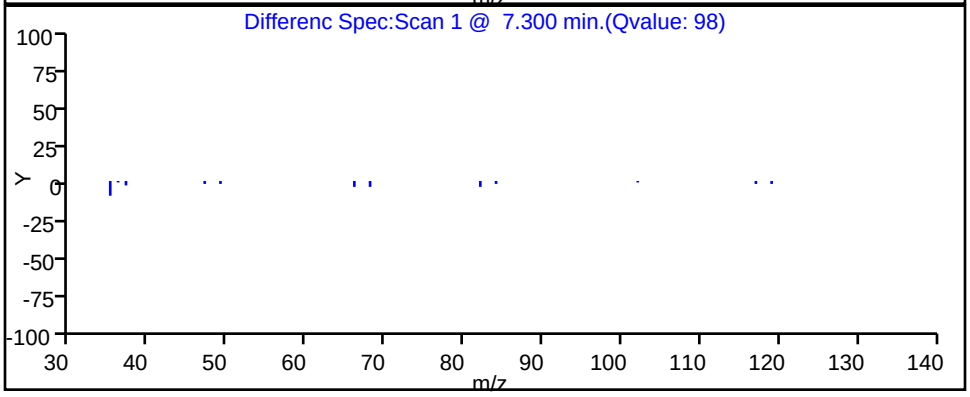












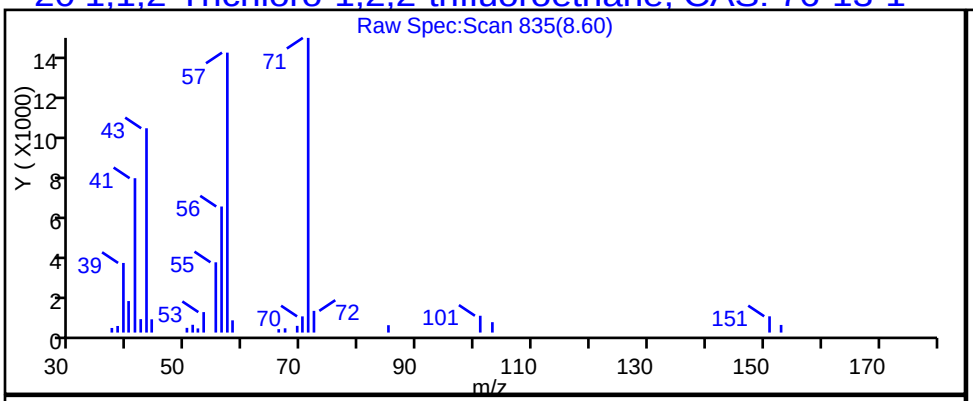
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

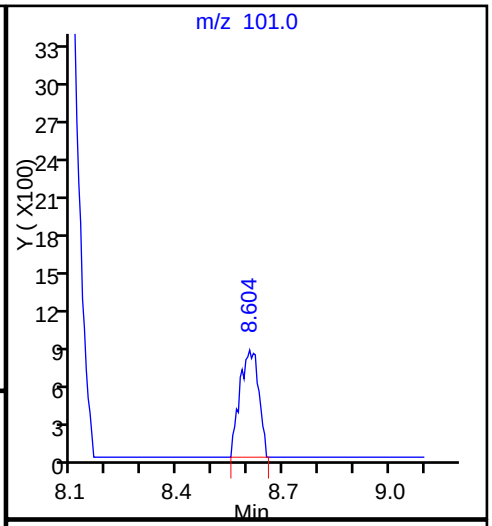
TestAmerica Burlington

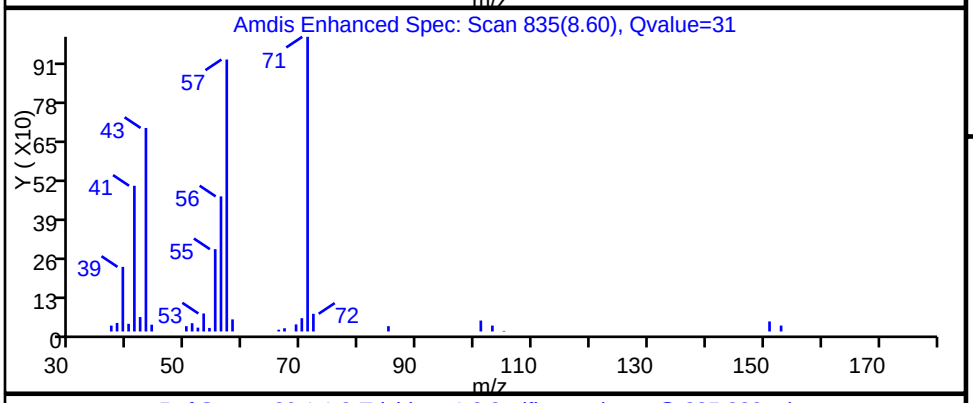
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

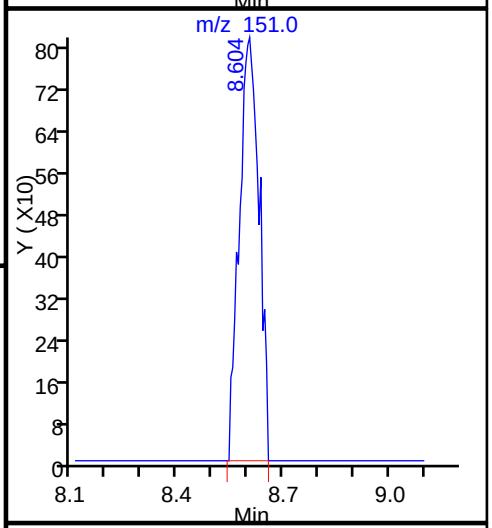
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

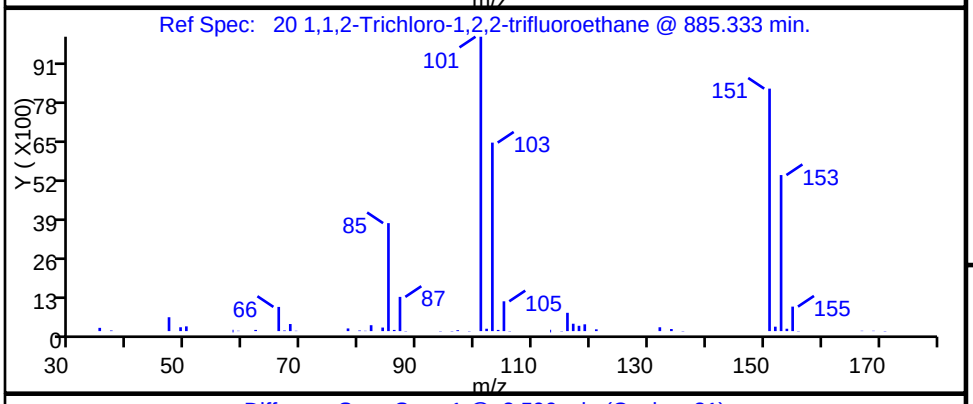
20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

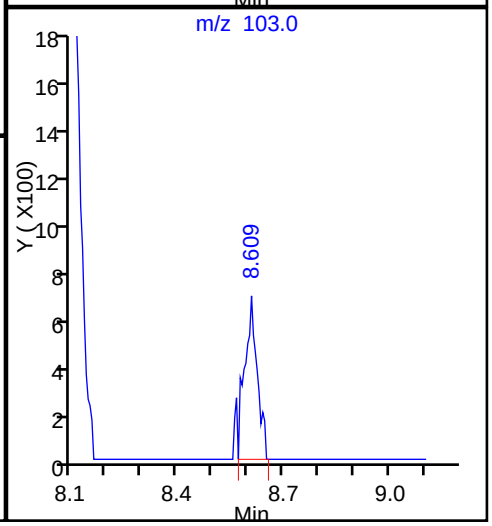


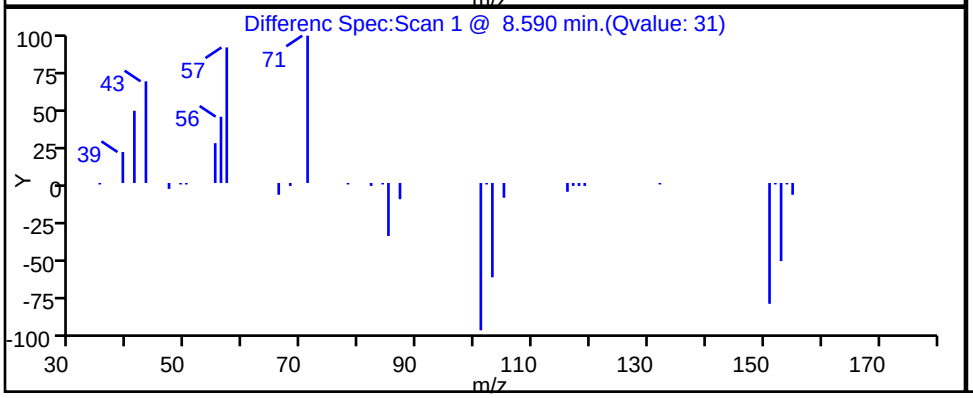










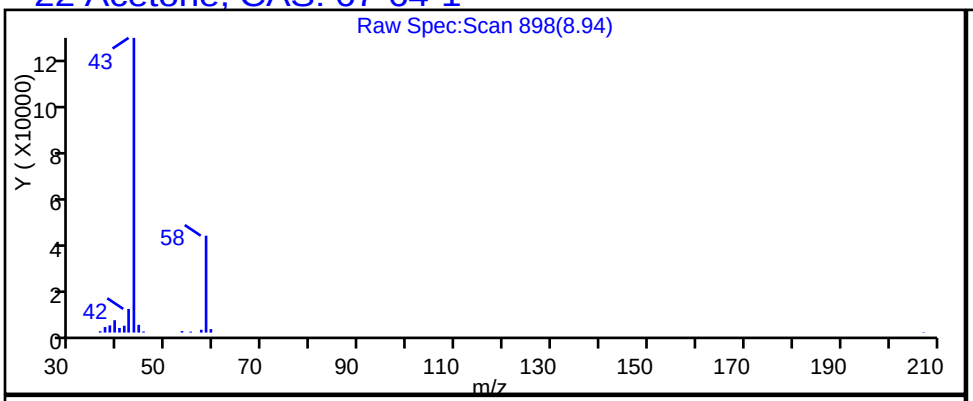


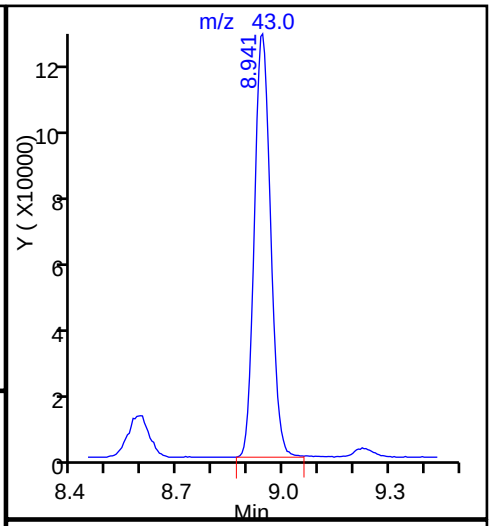
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

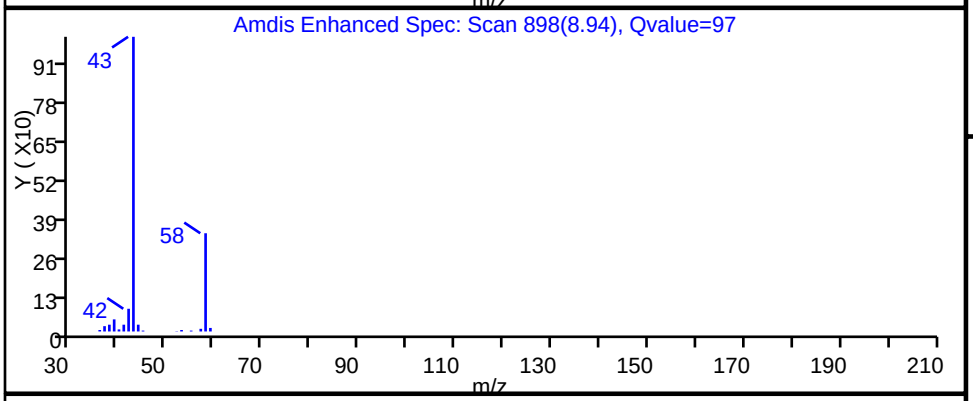
TestAmerica Burlington

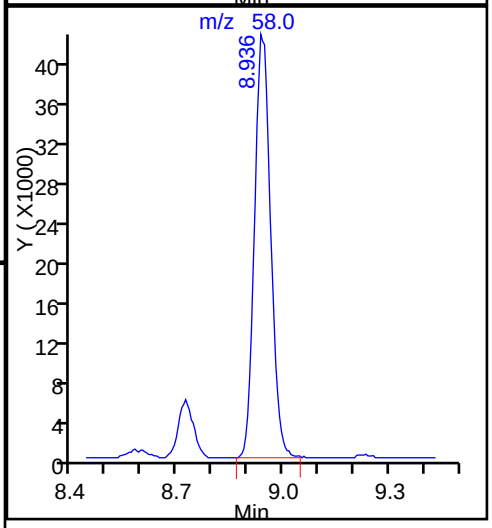
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d		
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4
Client ID:	FR-IA02-092315		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

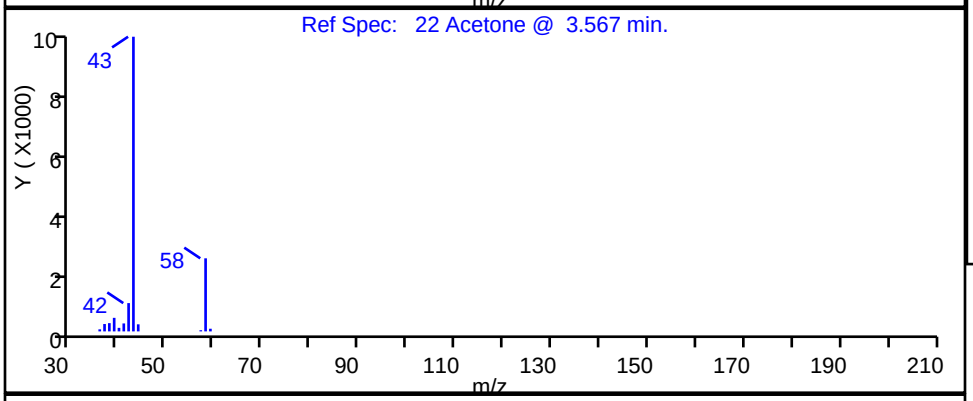
22 Acetone, CAS: 67-64-1

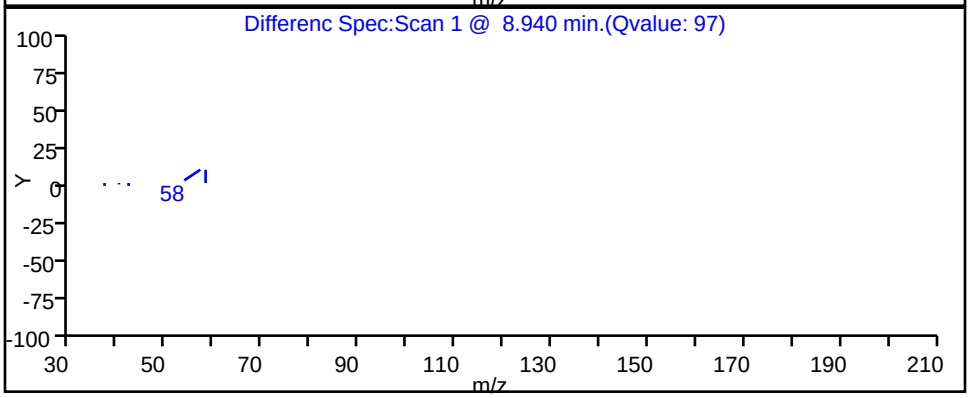












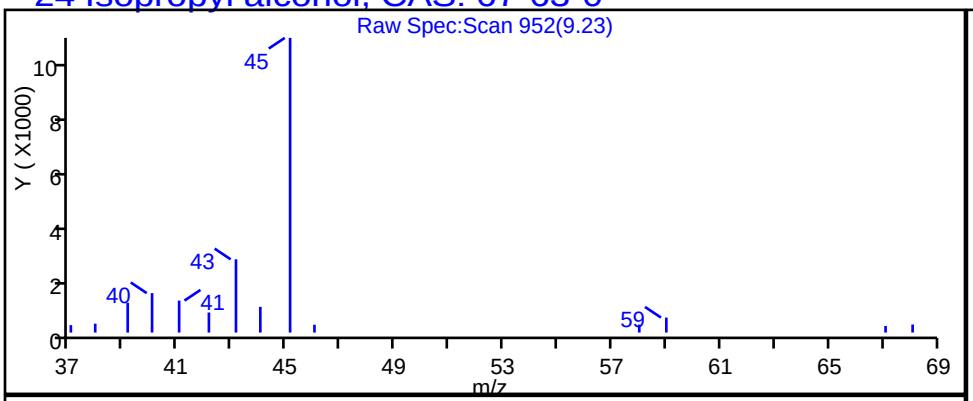
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

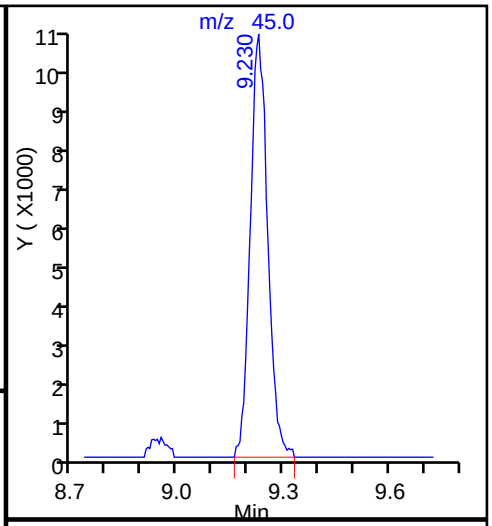
TestAmerica Burlington

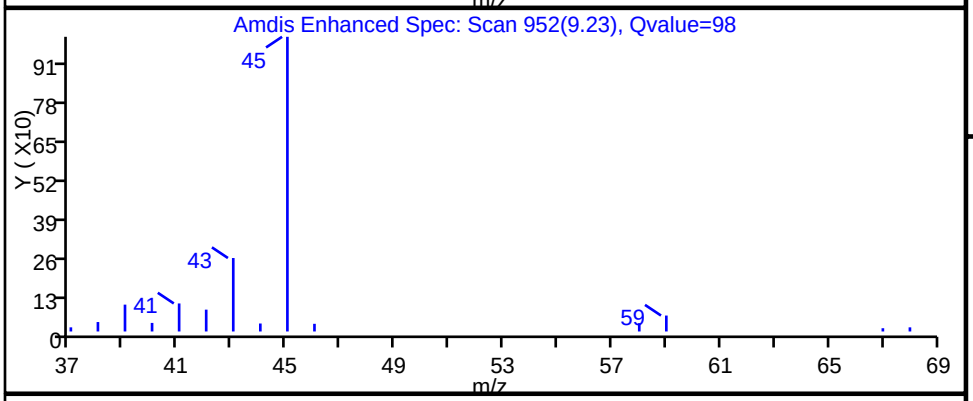
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

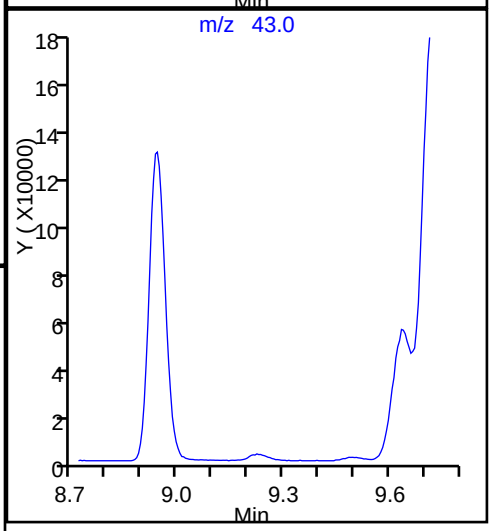
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4
Client ID:	FR-IA02-092315		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

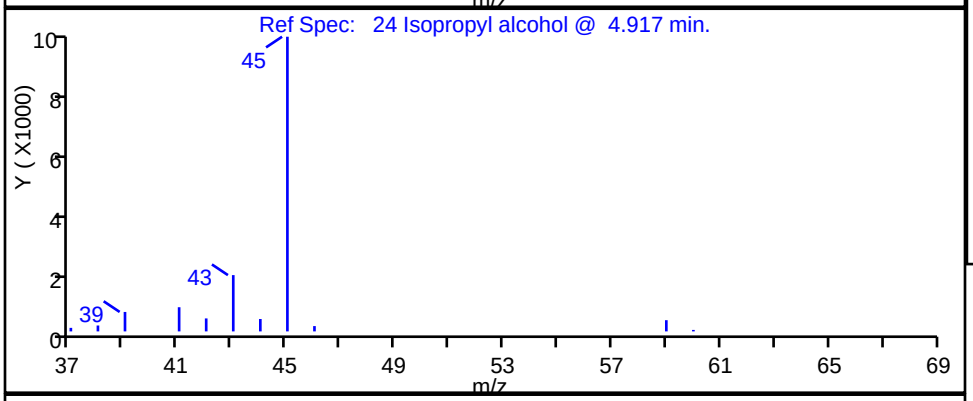
24 Isopropyl alcohol, CAS: 67-63-0

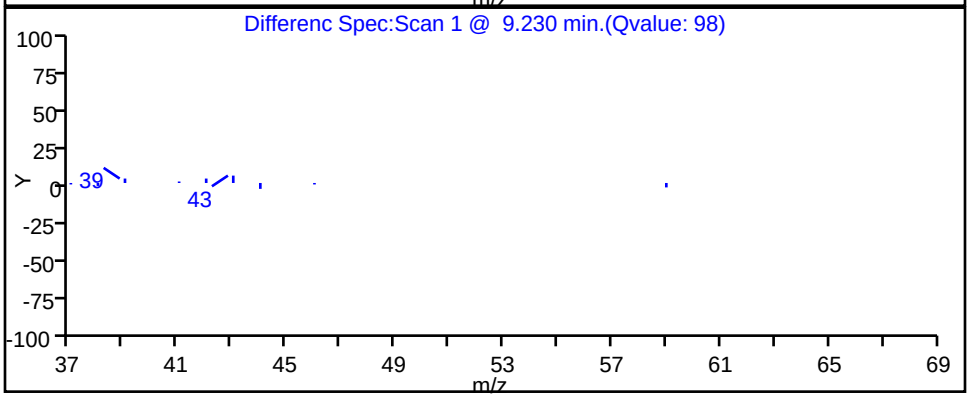










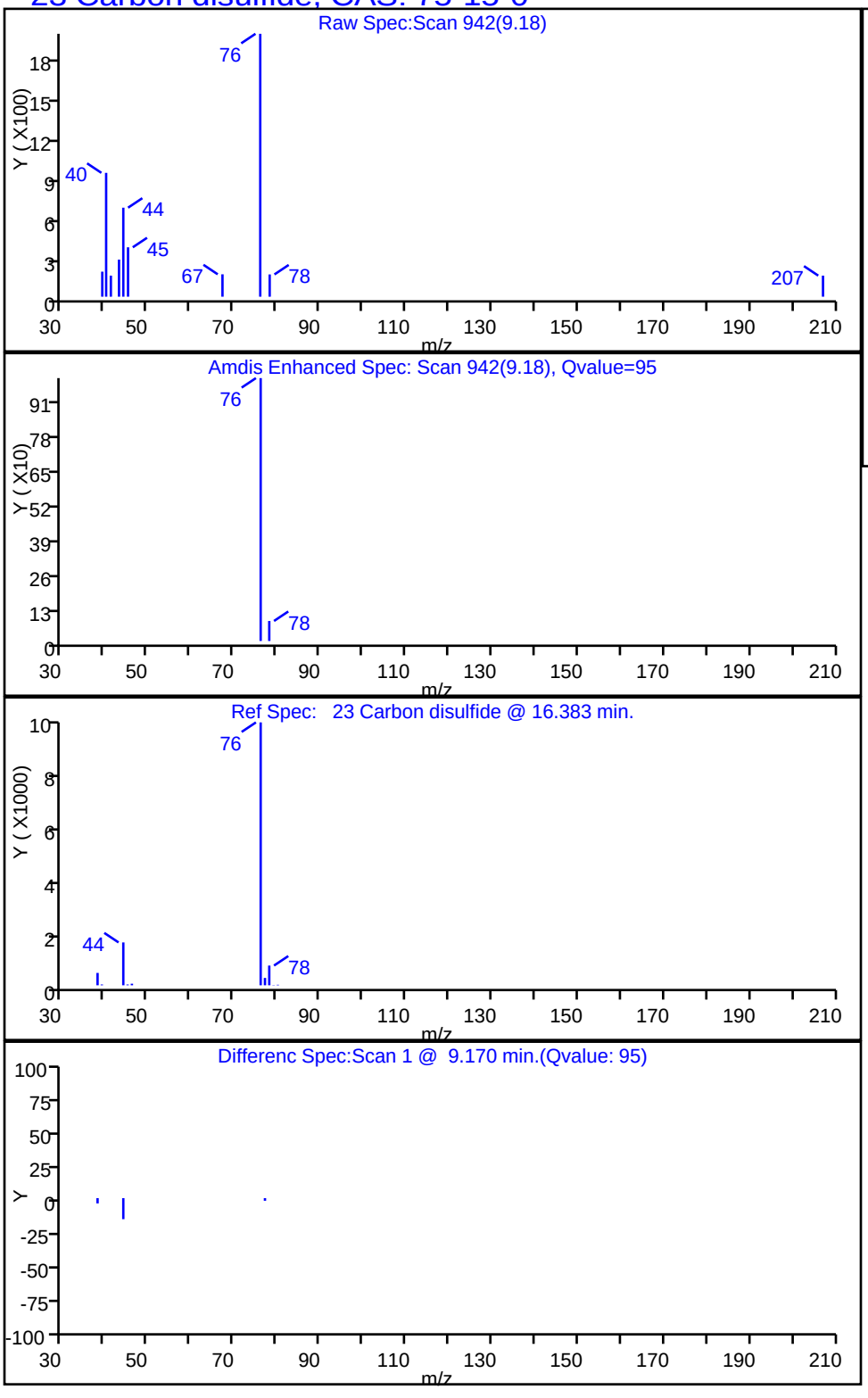


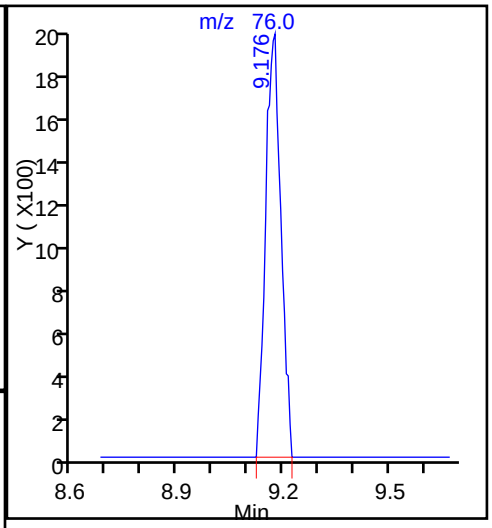
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





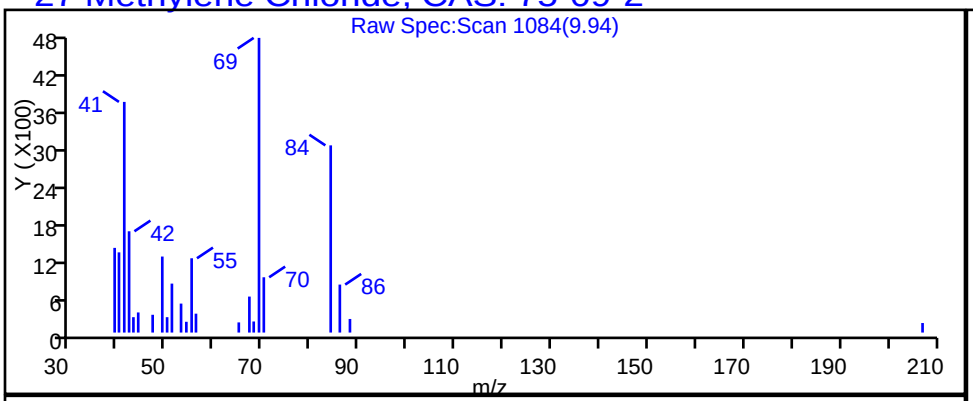
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

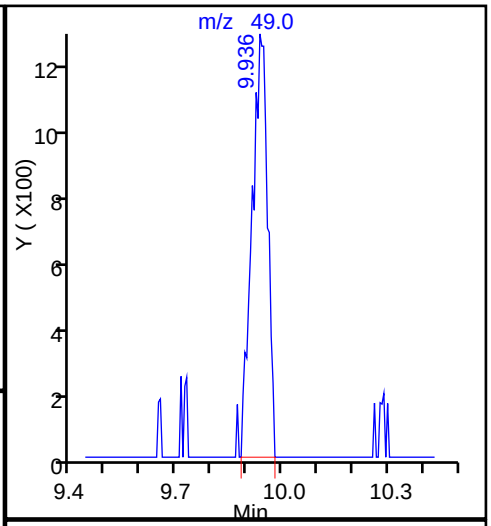
TestAmerica Burlington

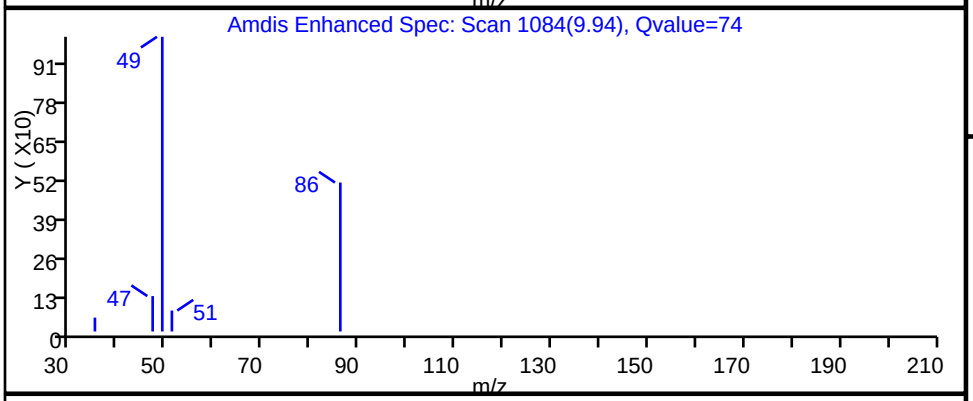
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

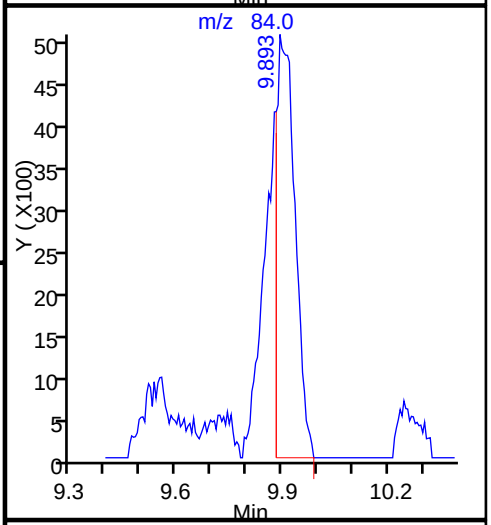
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

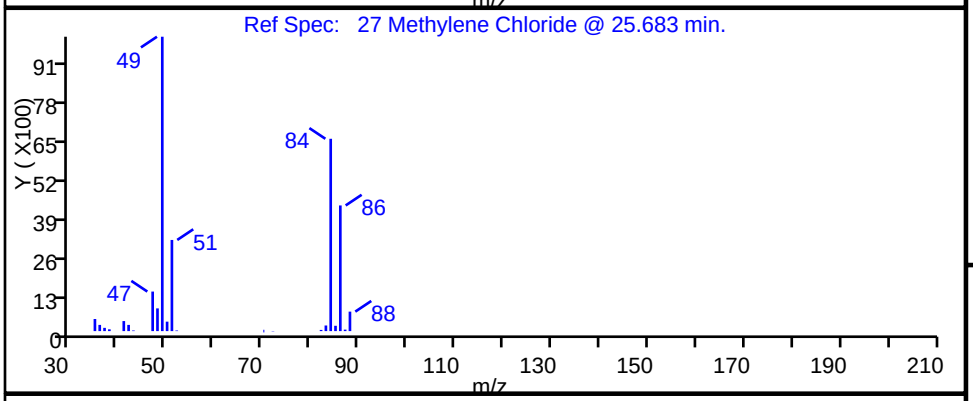
27 Methylene Chloride, CAS: 75-09-2

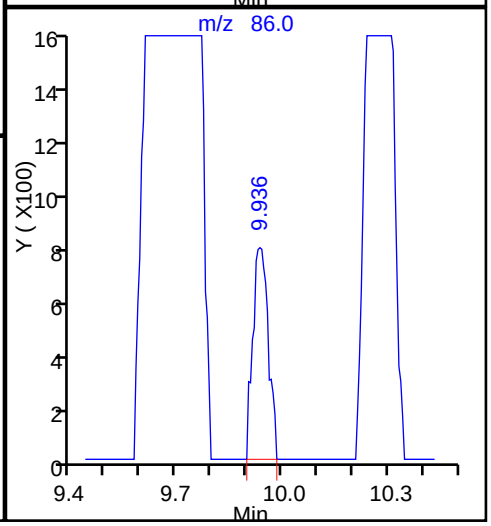


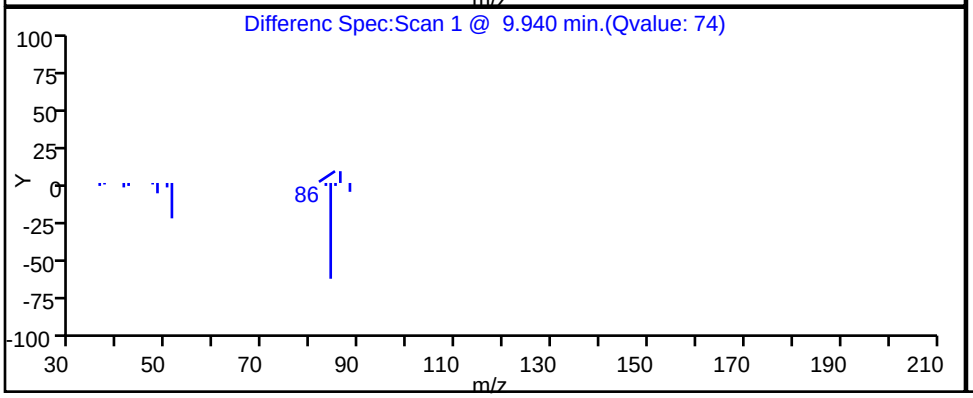










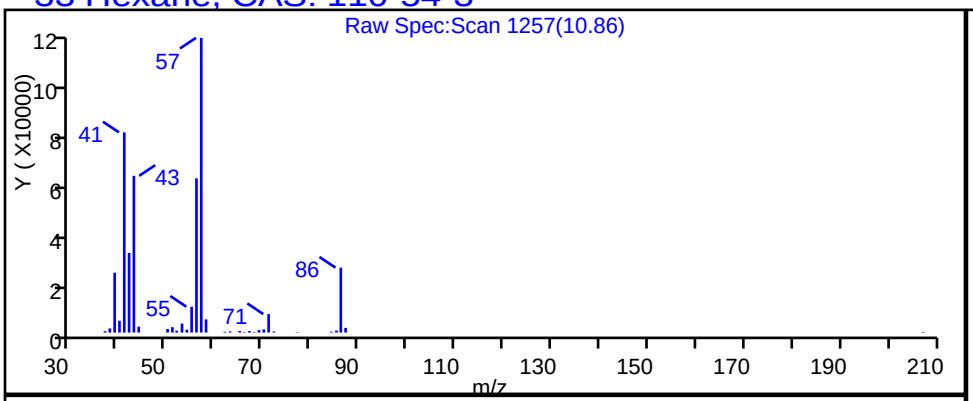


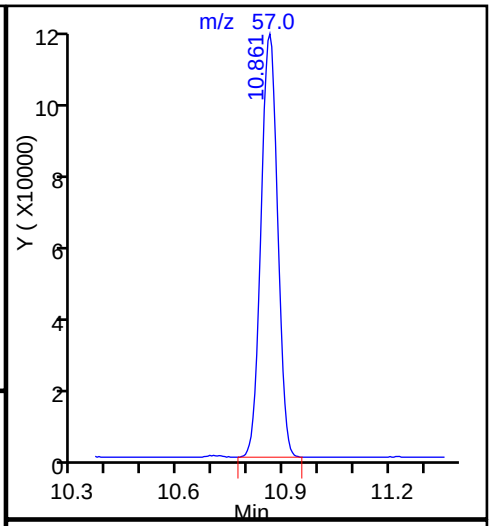
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

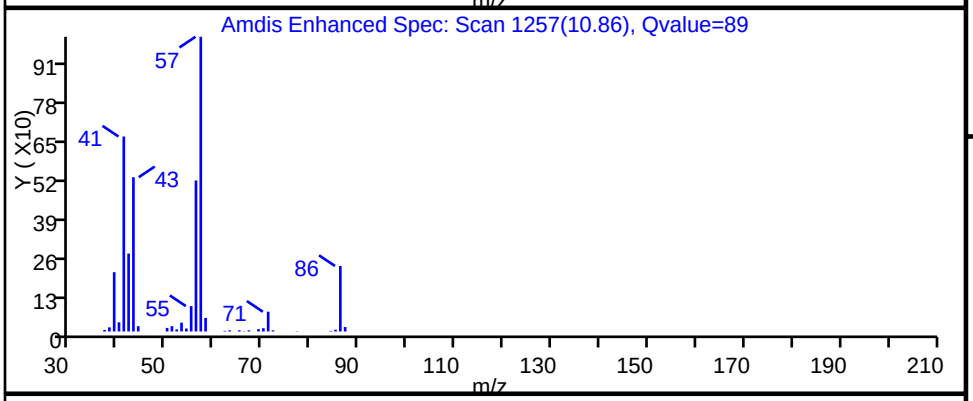
TestAmerica Burlington

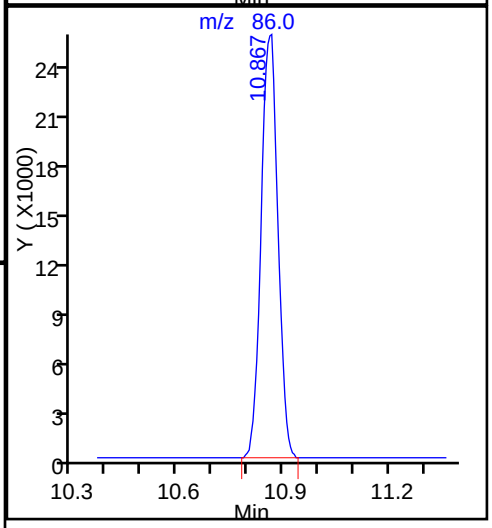
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d		
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4
Client ID:	FR-IA02-092315		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

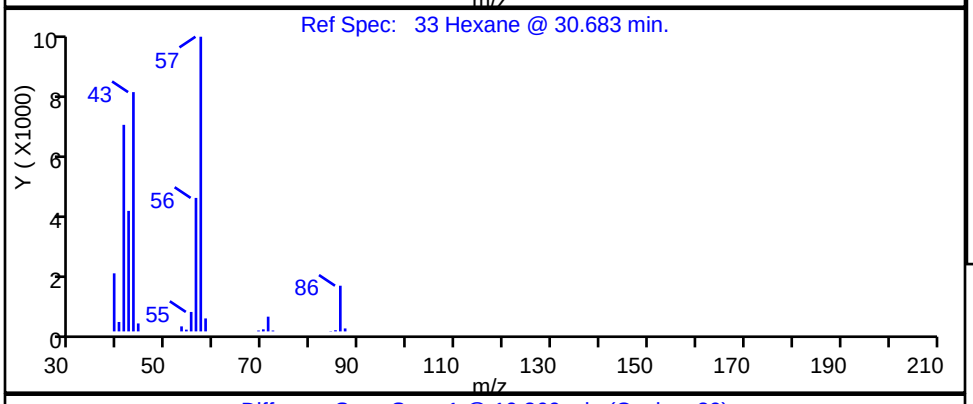
33 Hexane, CAS: 110-54-3

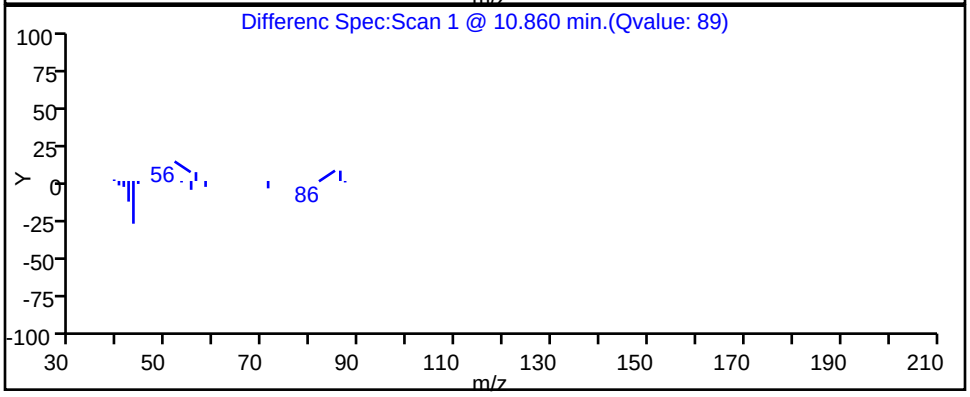












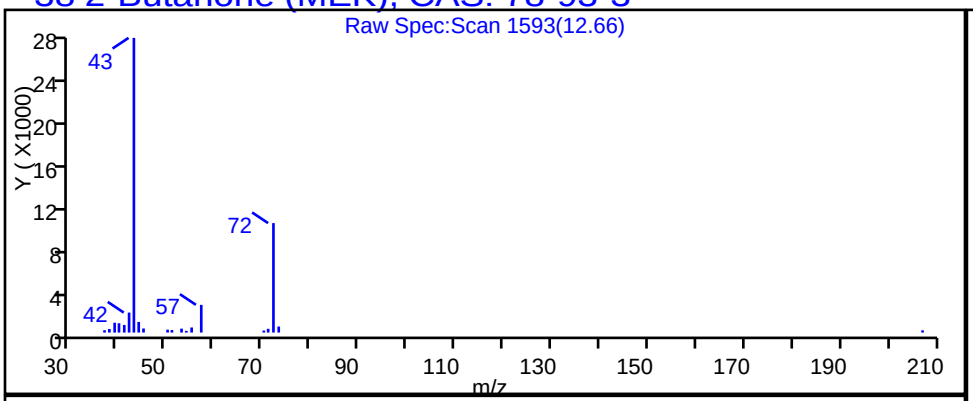
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

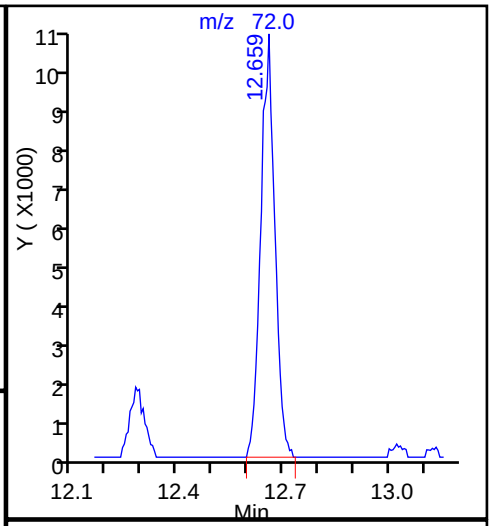
TestAmerica Burlington

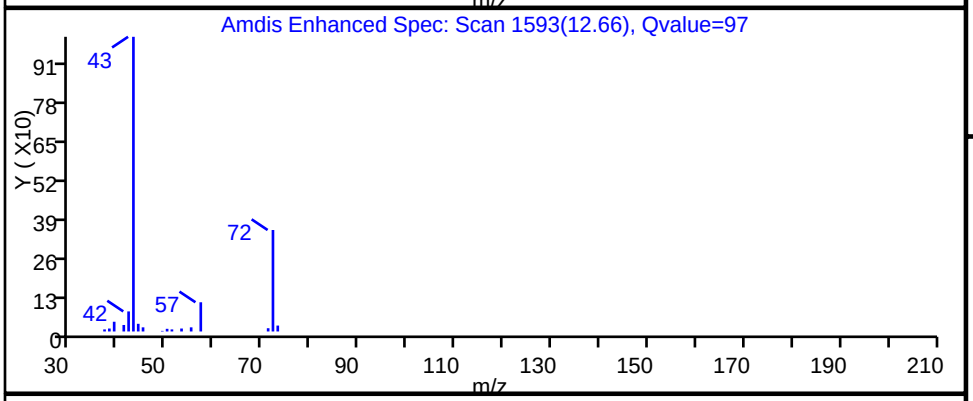
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

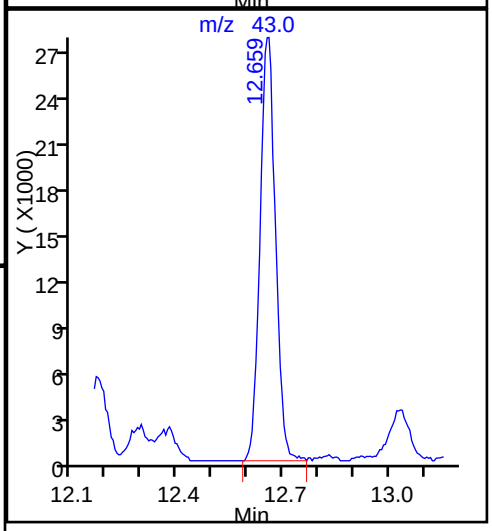
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

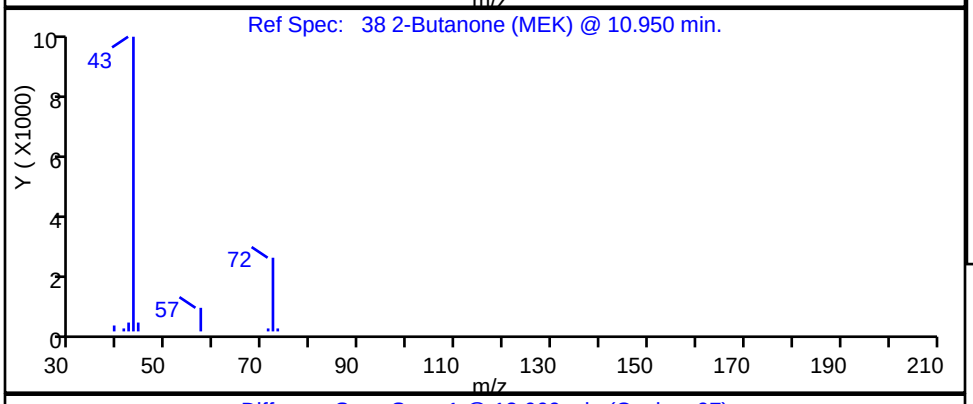
38 2-Butanone (MEK), CAS: 78-93-3

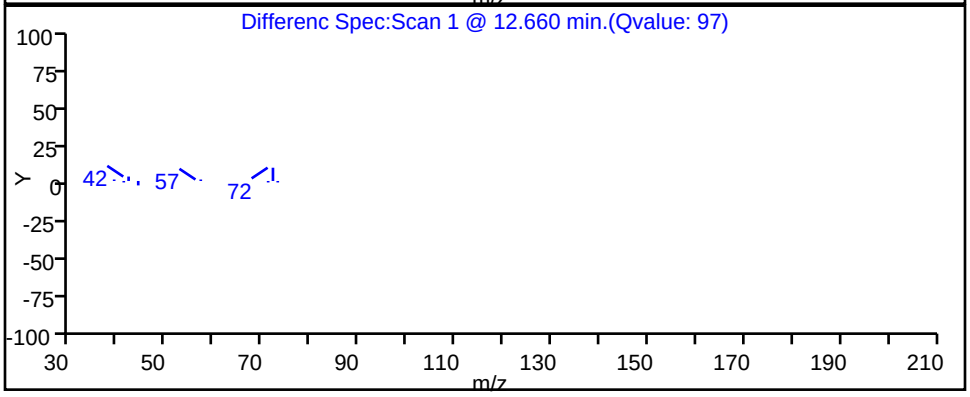










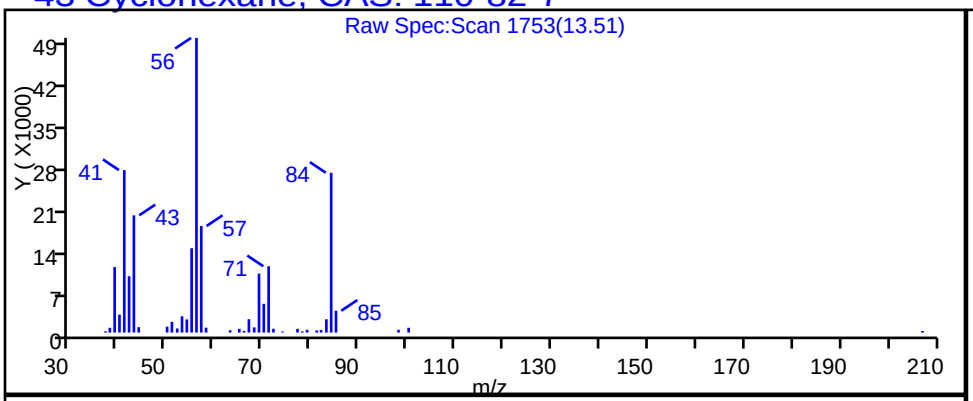


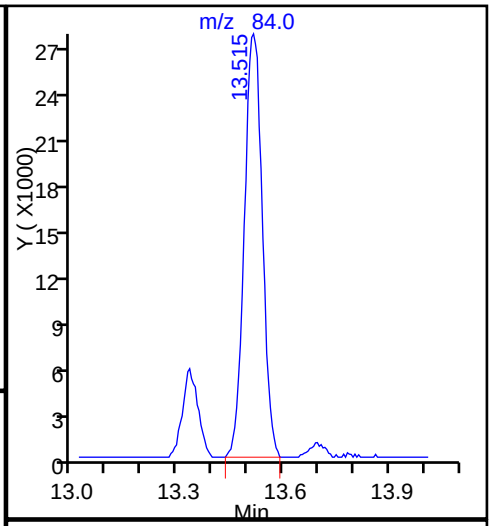
Report Date: 30-Sep-2015 14:17:02 Chrom Revision: 2.2 23-Jul-2015 08:26:08

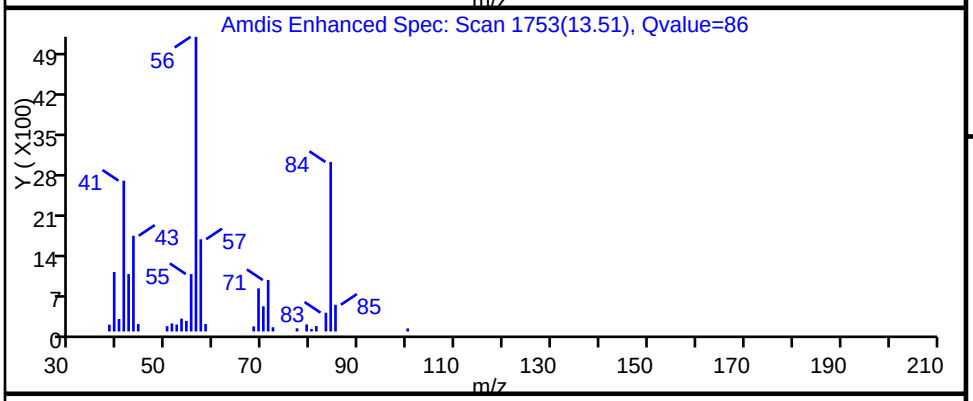
TestAmerica Burlington

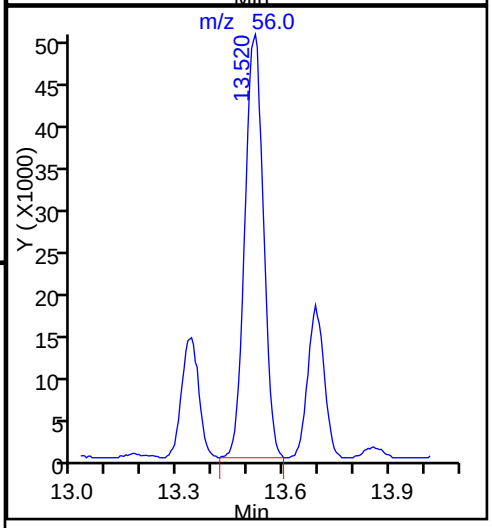
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

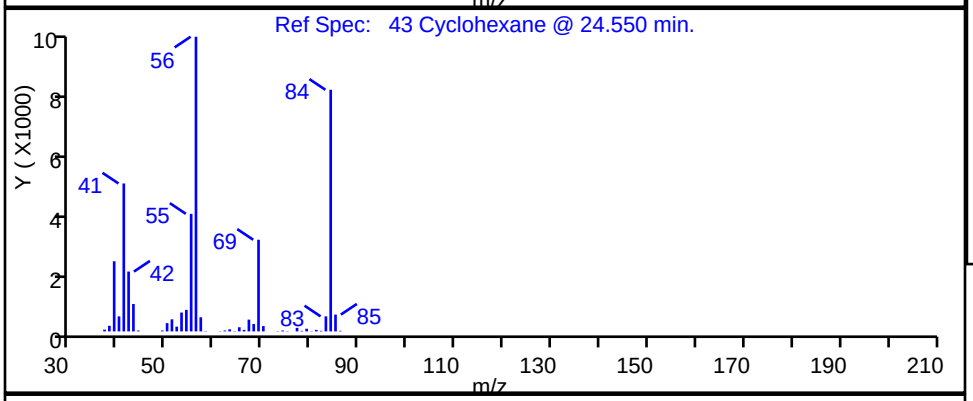
43 Cyclohexane, CAS: 110-82-7

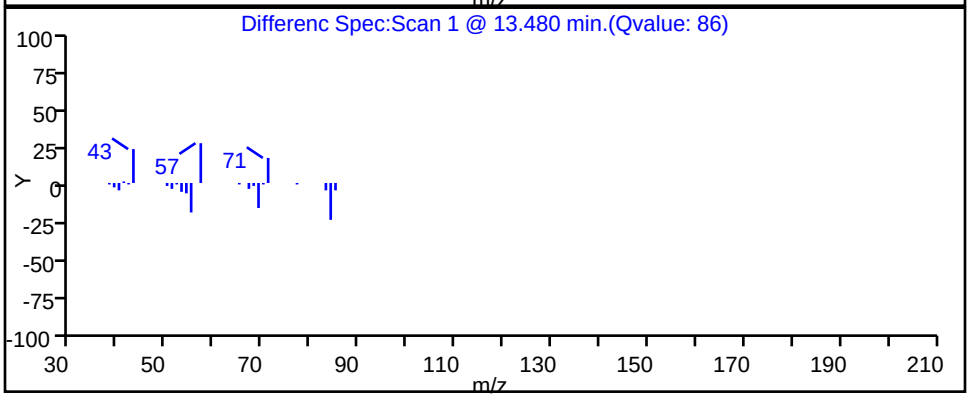










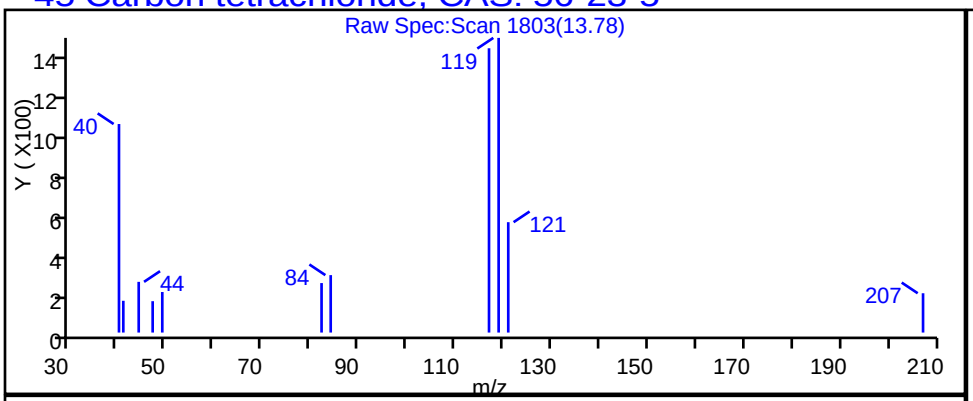


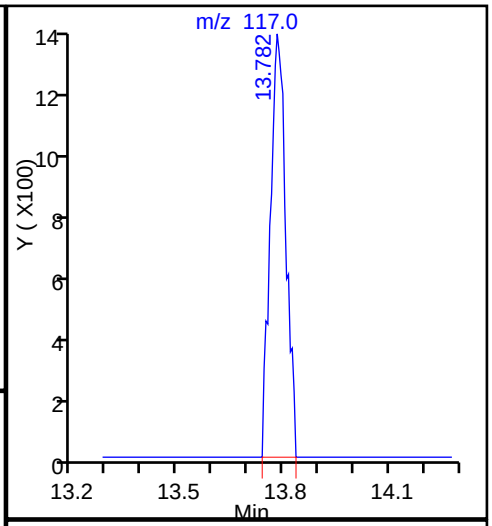
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

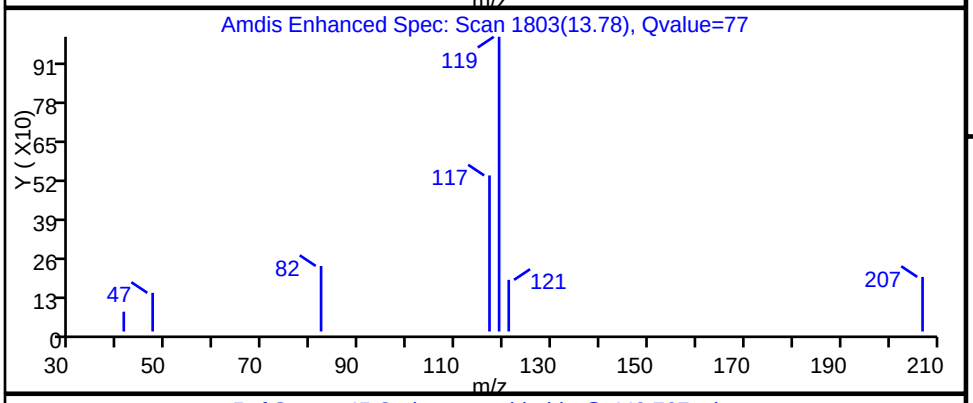
TestAmerica Burlington

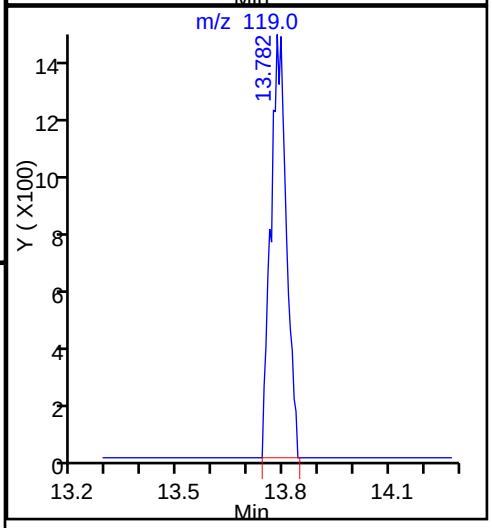
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

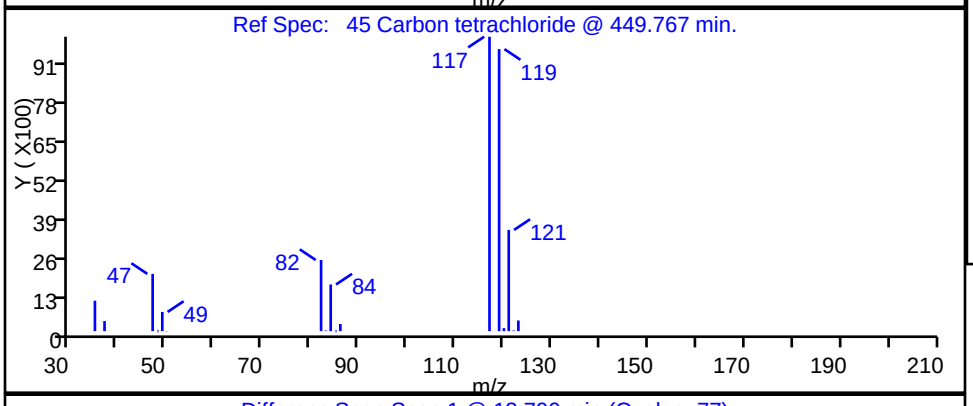
45 Carbon tetrachloride, CAS: 56-23-5

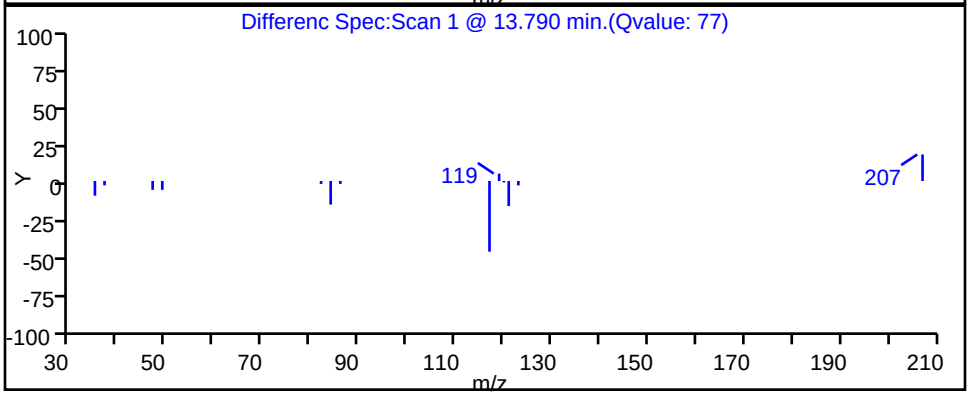












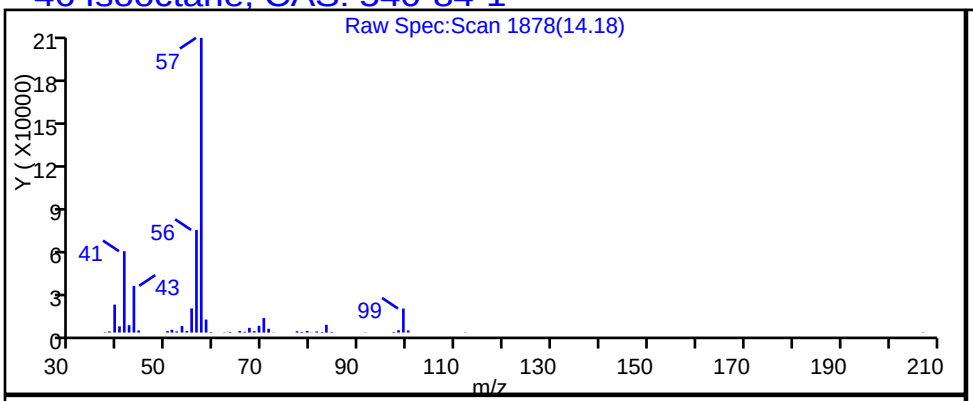
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

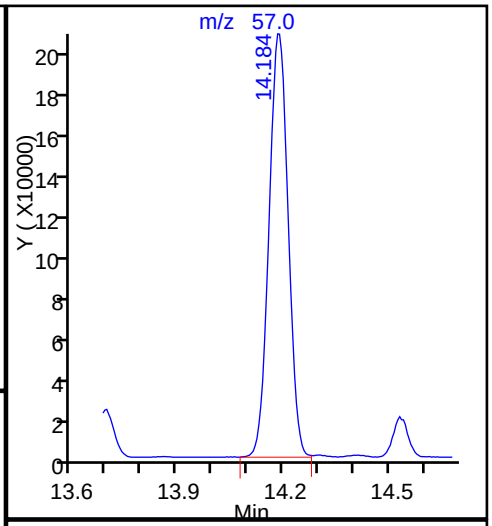
TestAmerica Burlington

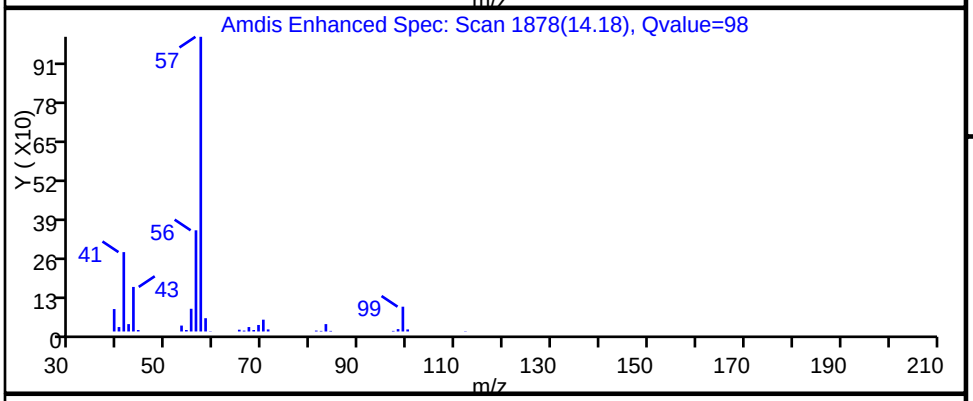
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

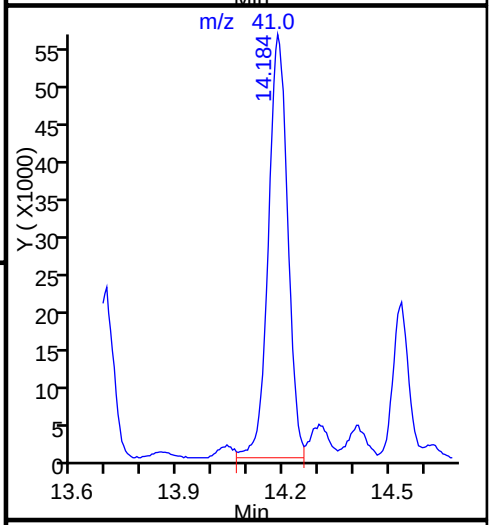
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

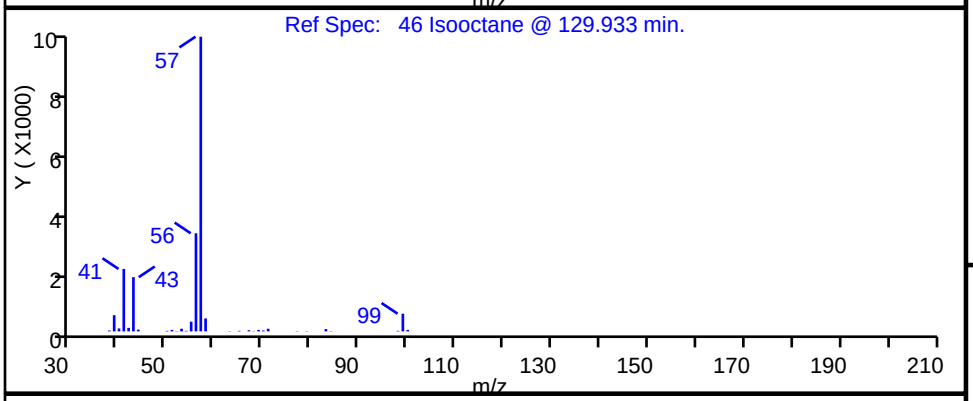
46 Isooctane, CAS: 540-84-1

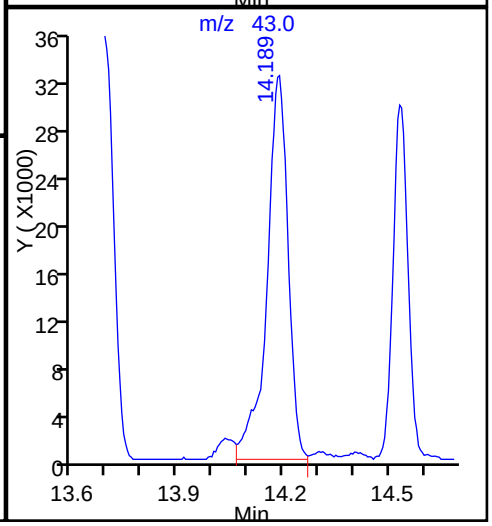


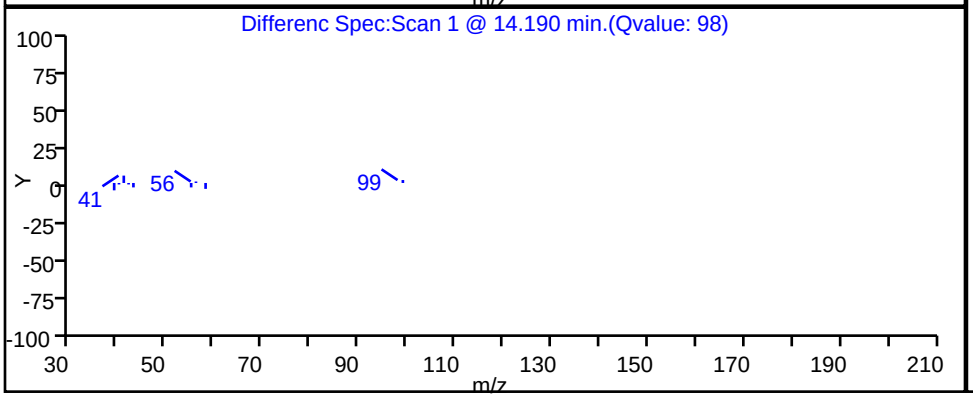










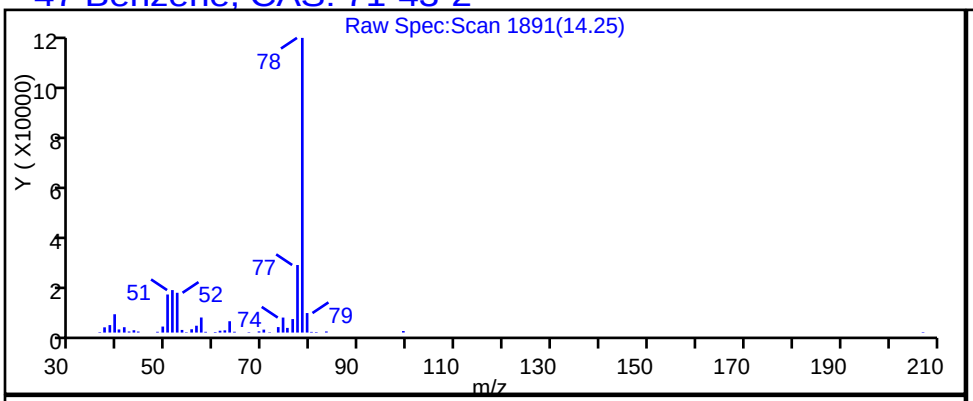


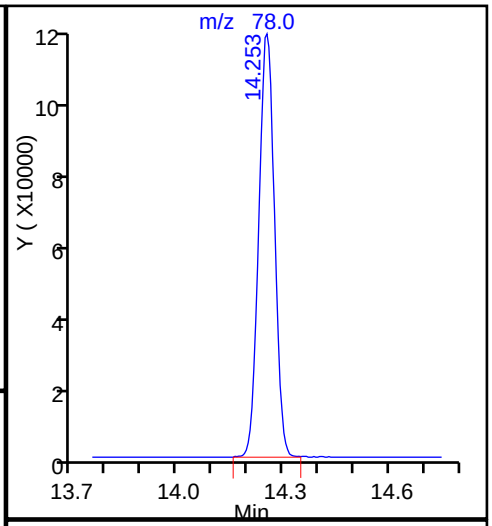
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

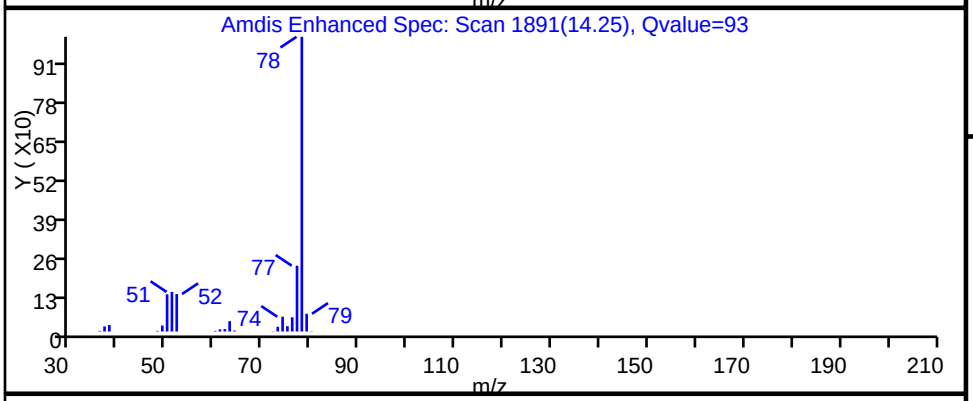
TestAmerica Burlington

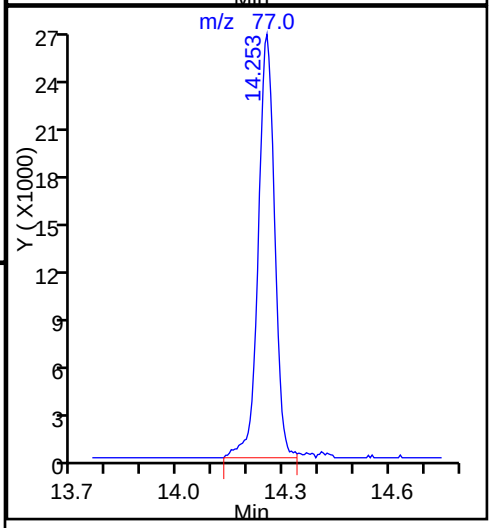
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

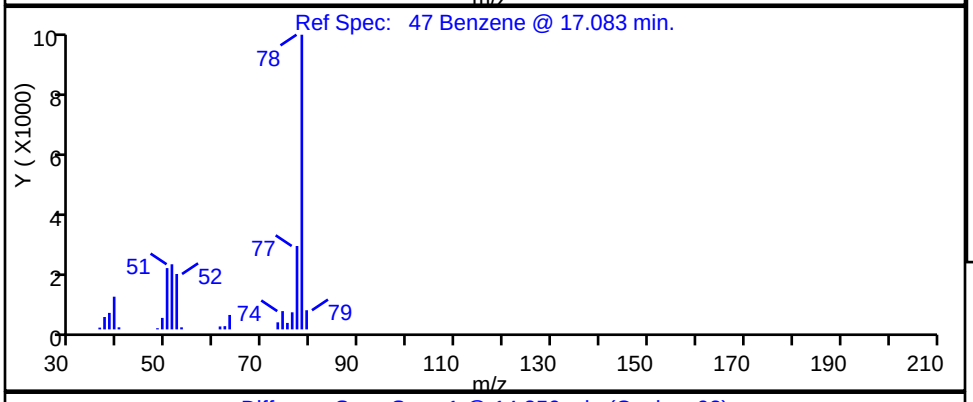
47 Benzene, CAS: 71-43-2

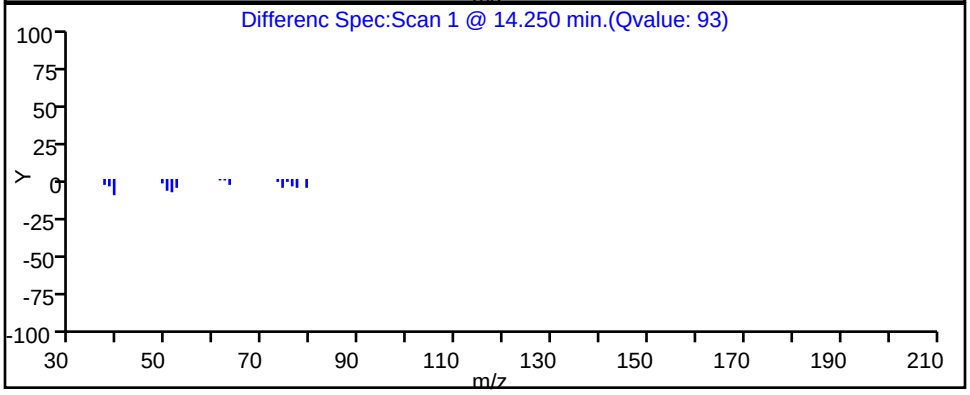










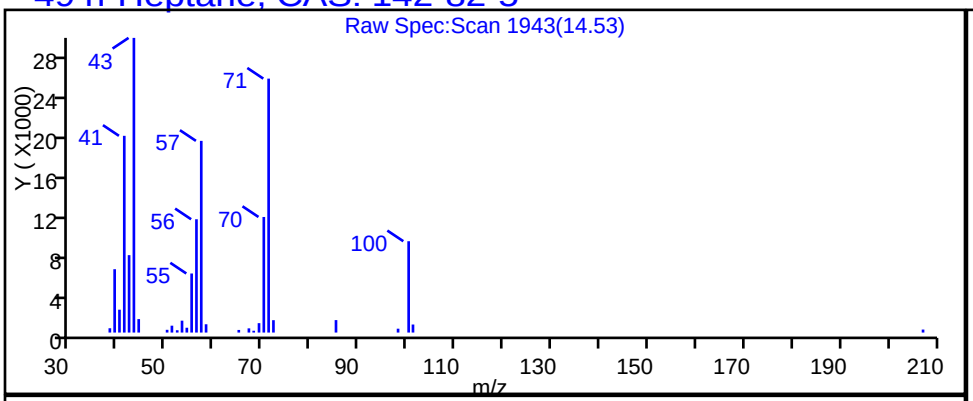


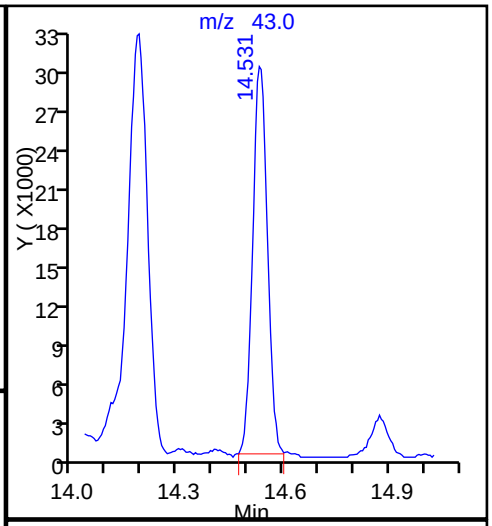
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

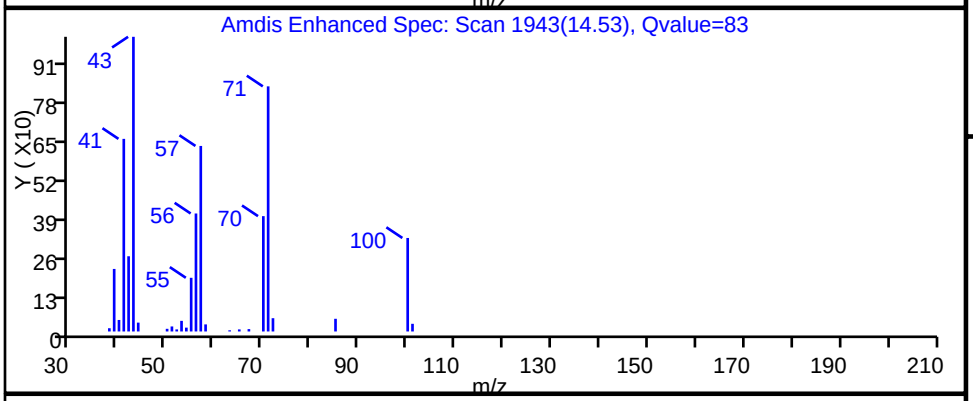
TestAmerica Burlington

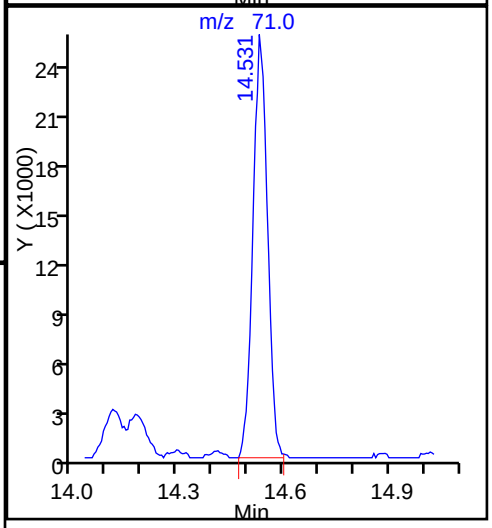
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

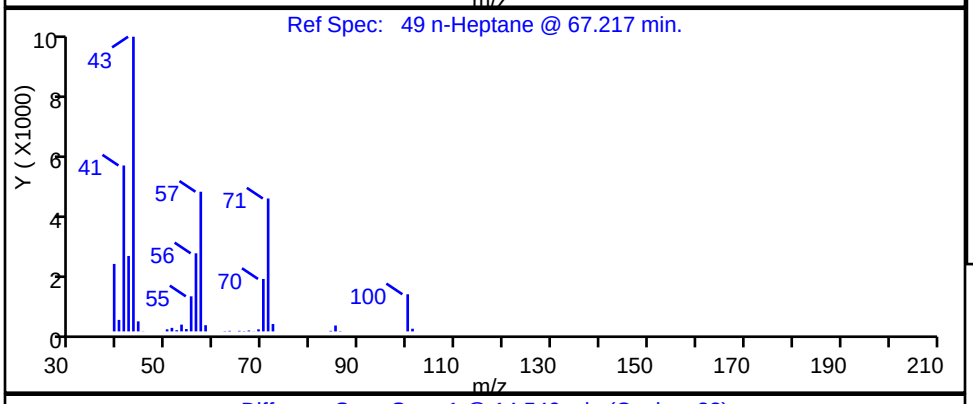
49 n-Heptane, CAS: 142-82-5

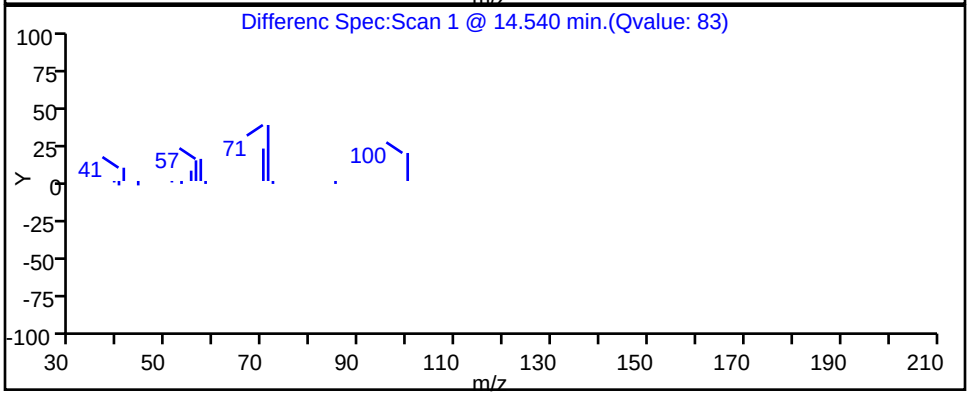












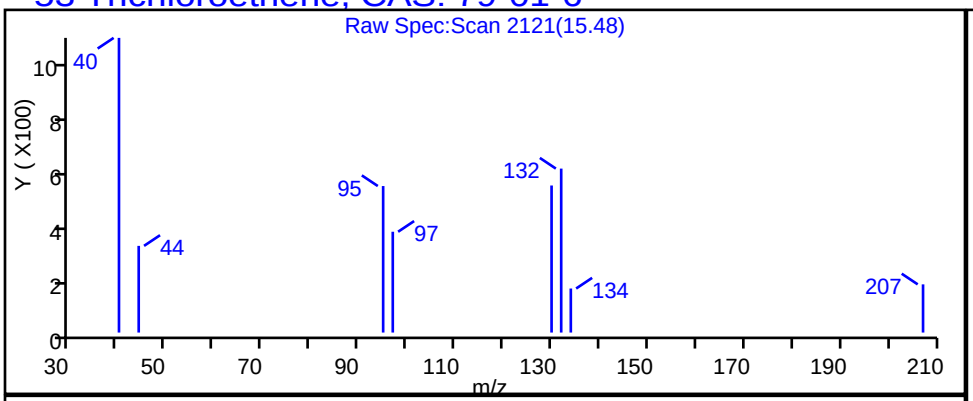
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

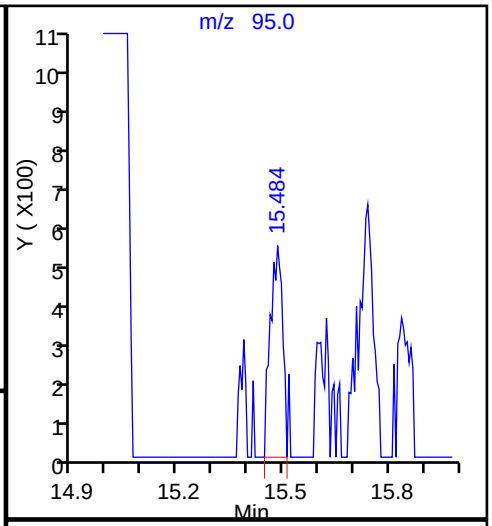
TestAmerica Burlington

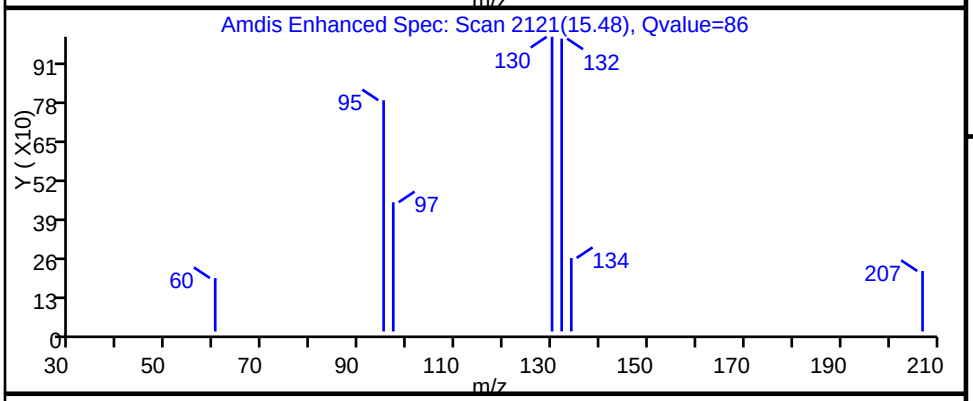
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

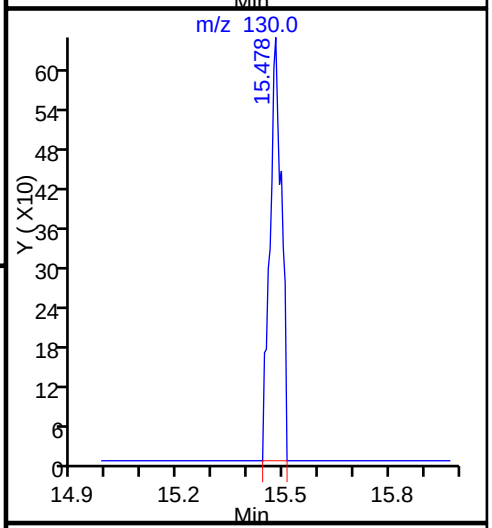
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

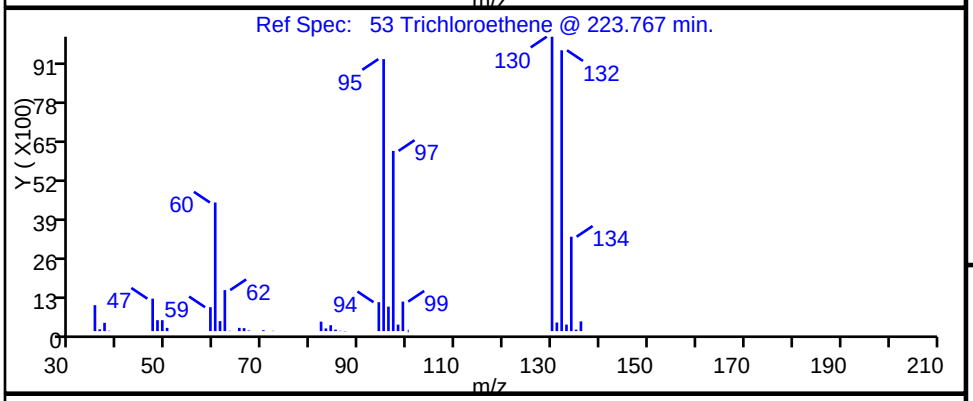
53 Trichloroethene, CAS: 79-01-6

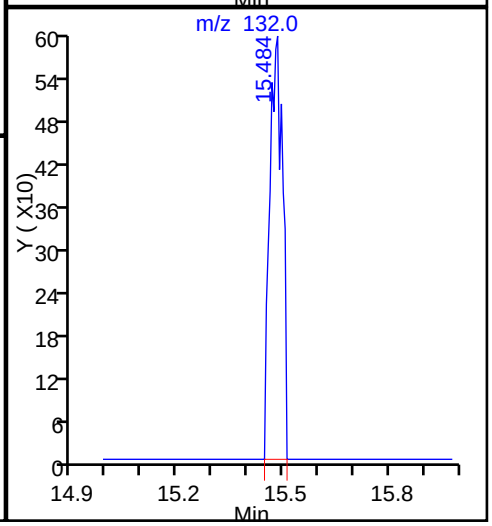


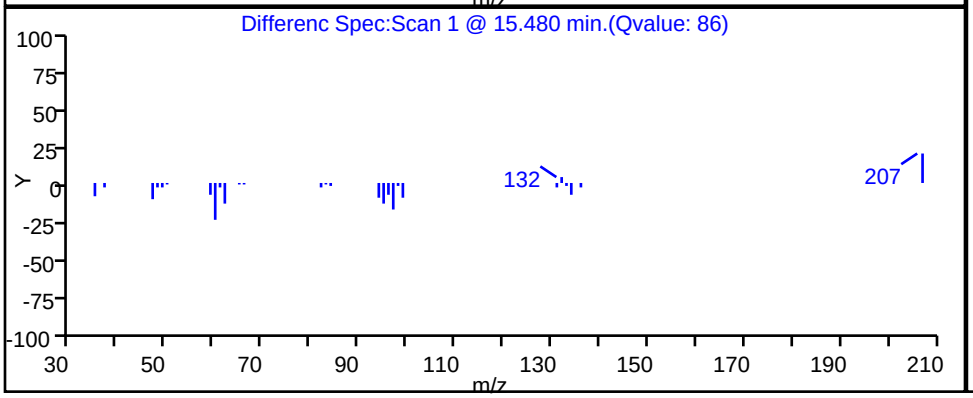












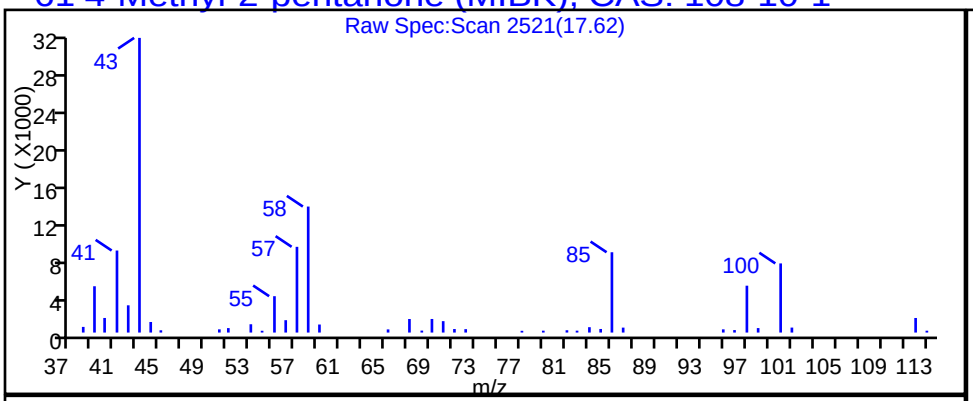
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

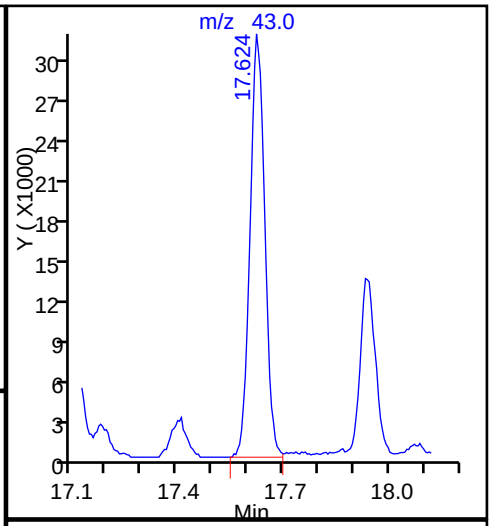
TestAmerica Burlington

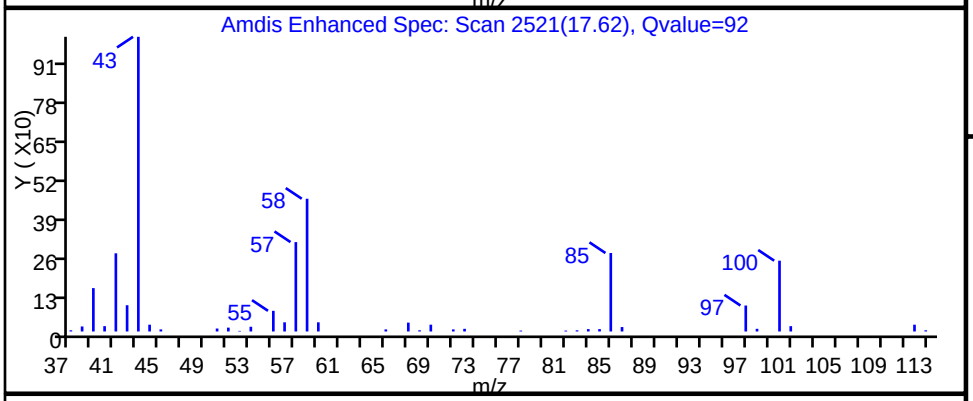
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

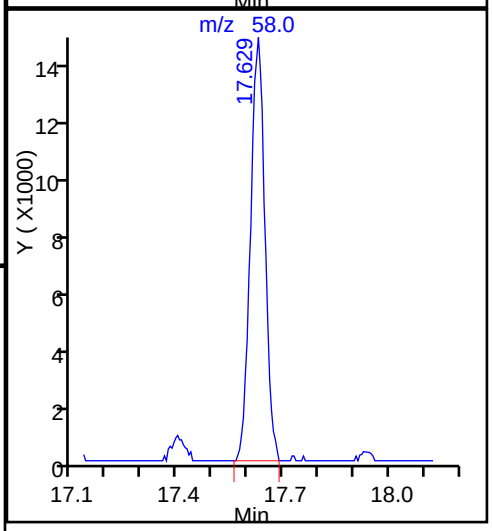
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

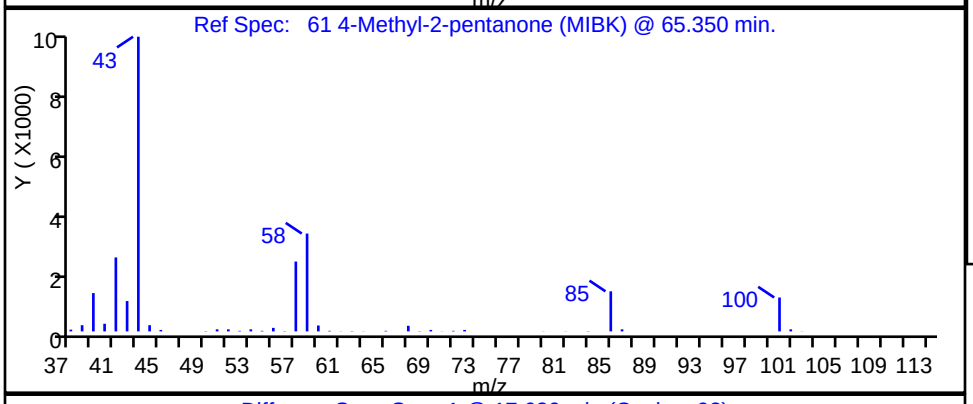
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

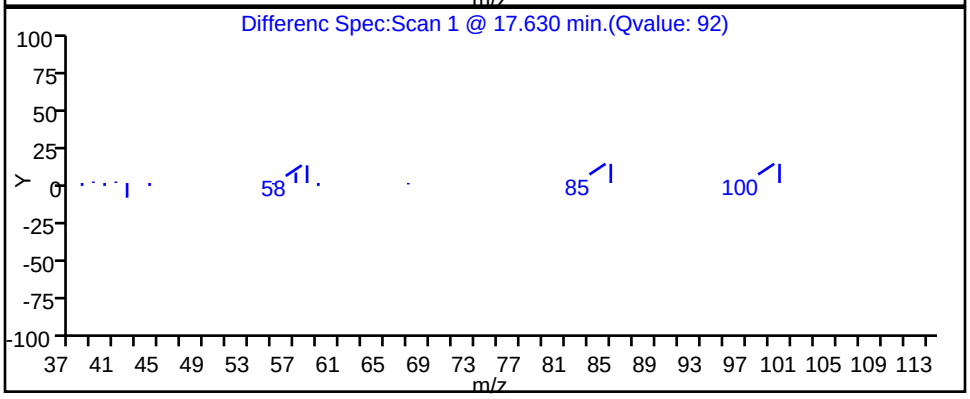












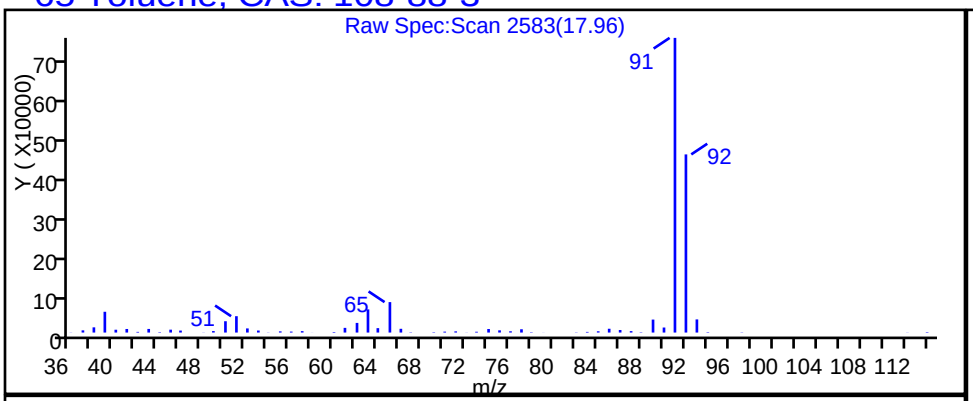
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

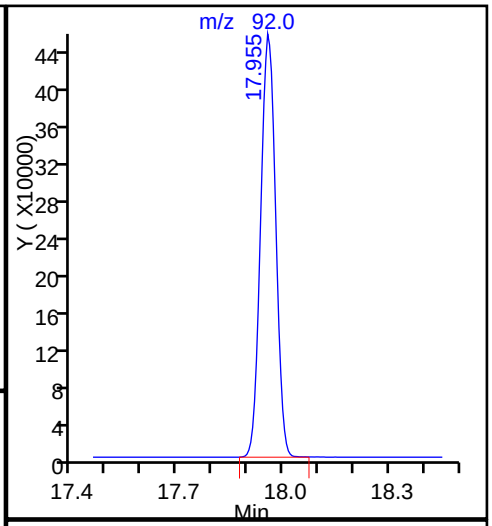
TestAmerica Burlington

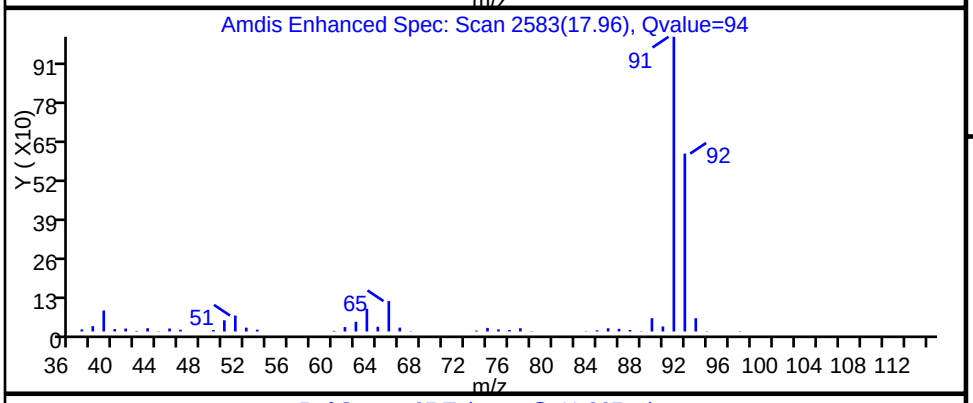
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

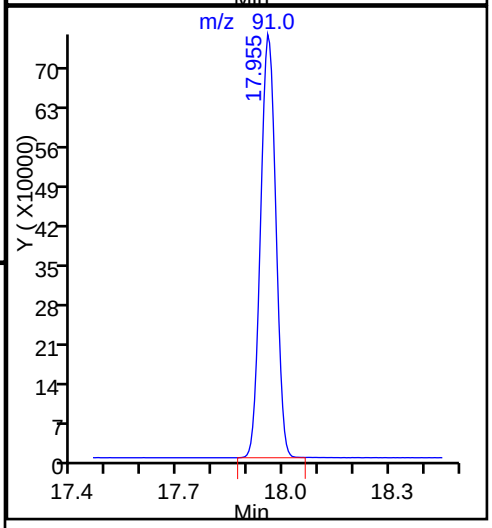
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

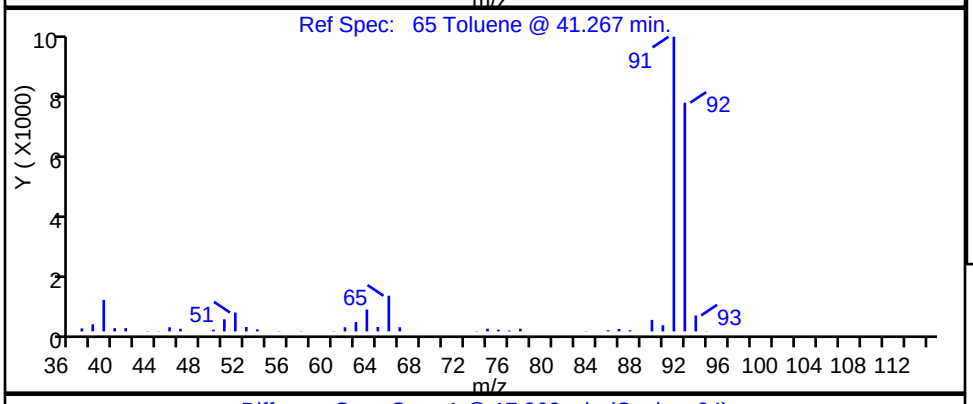
65 Toluene, CAS: 108-88-3

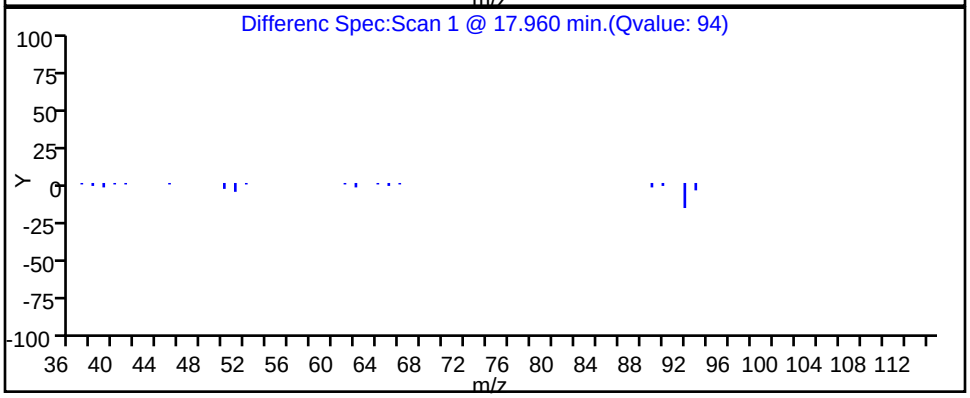












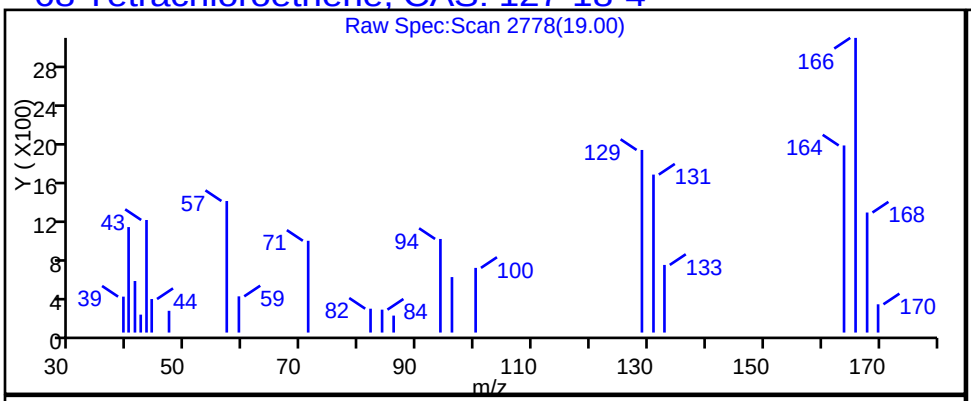
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

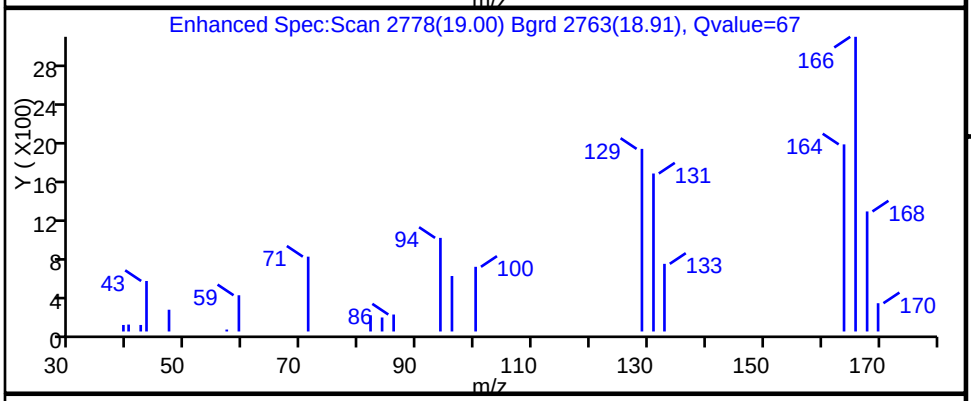
TestAmerica Burlington

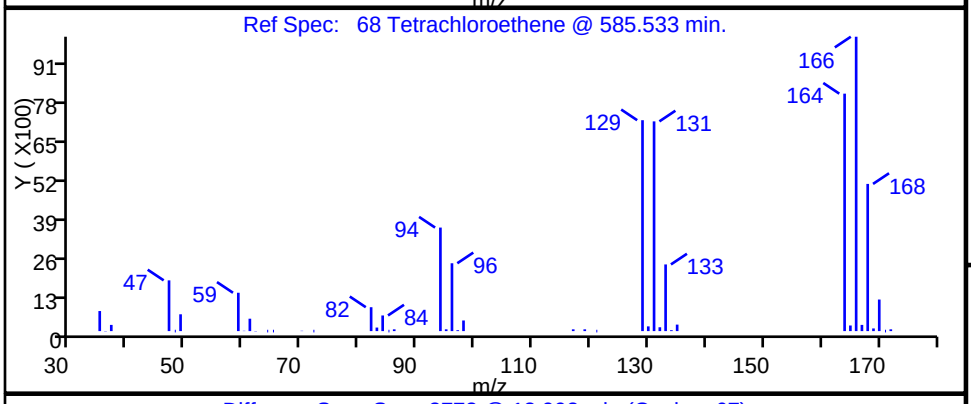
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

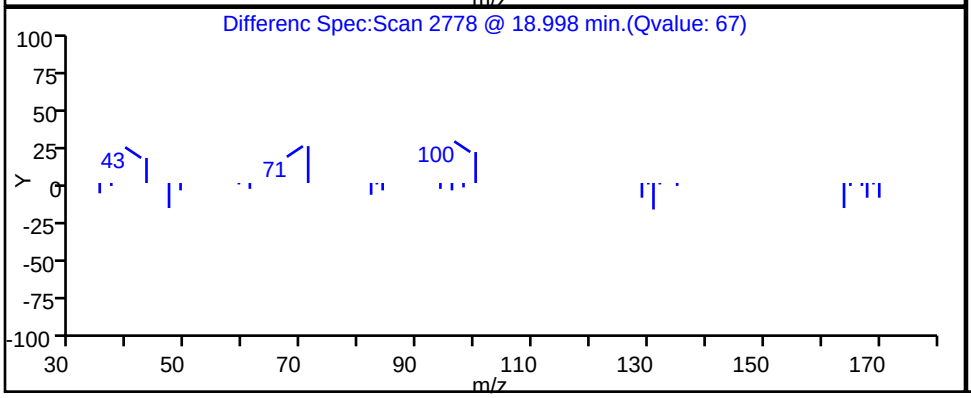
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

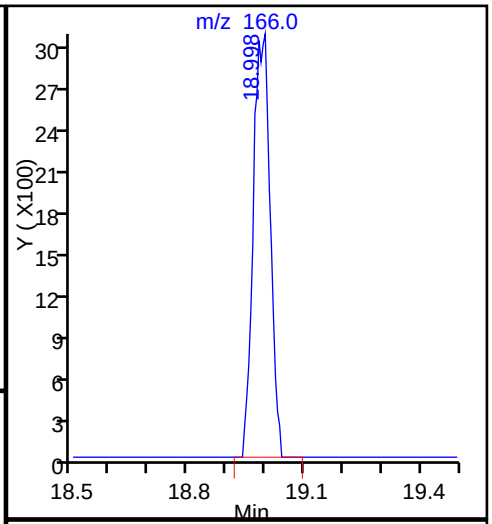
68 Tetrachloroethene, CAS: 127-18-4

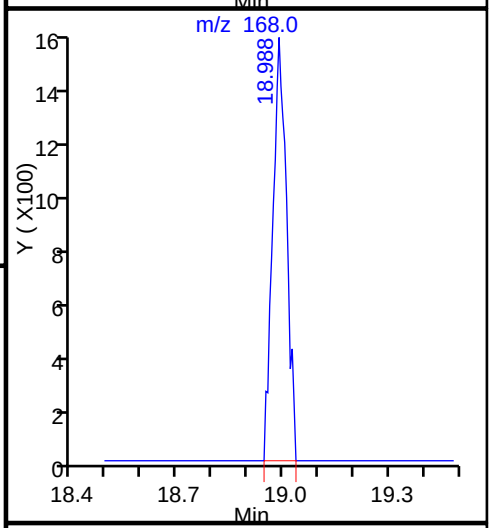


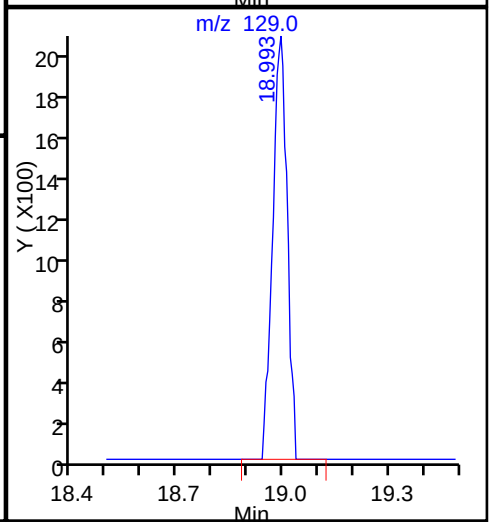












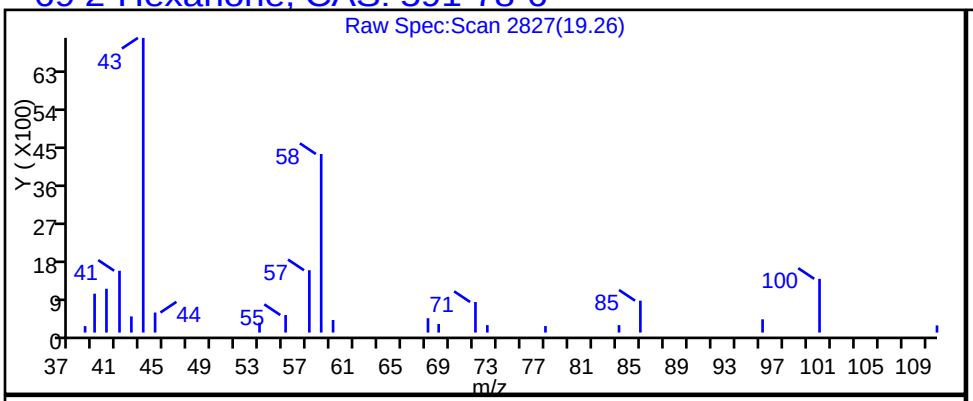
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

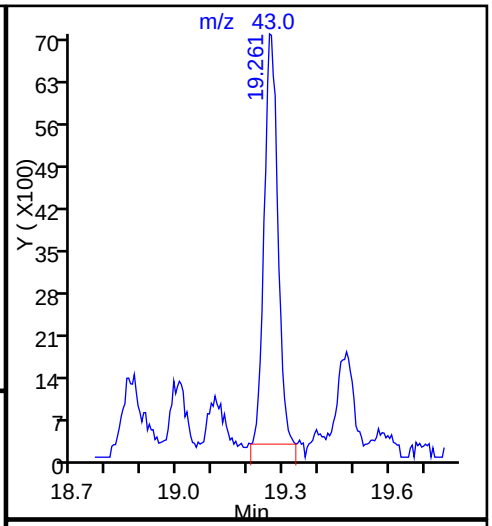
TestAmerica Burlington

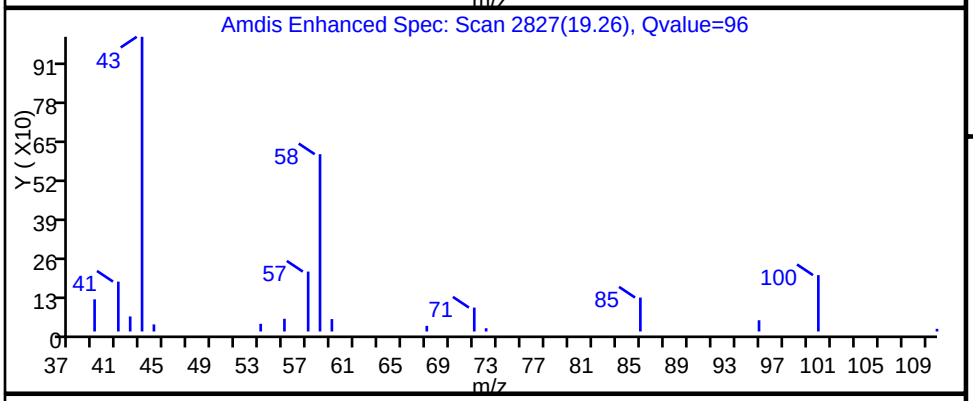
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

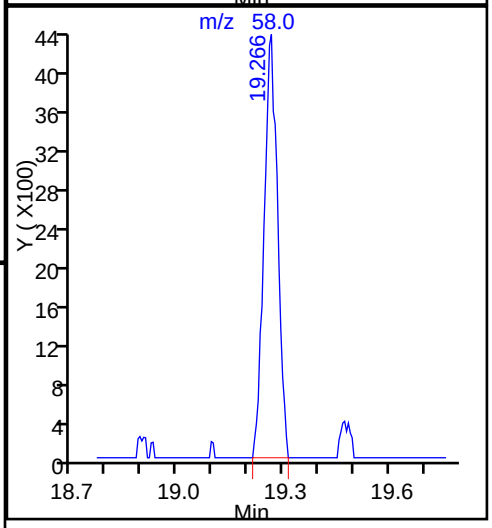
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

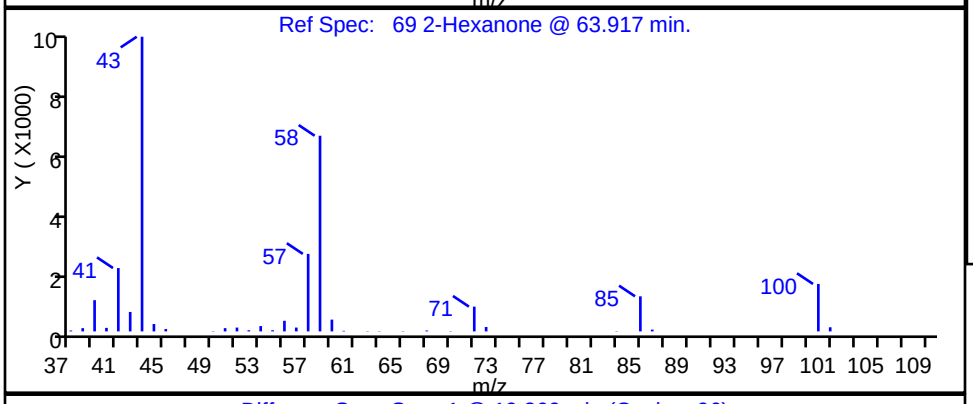
69 2-Hexanone, CAS: 591-78-6

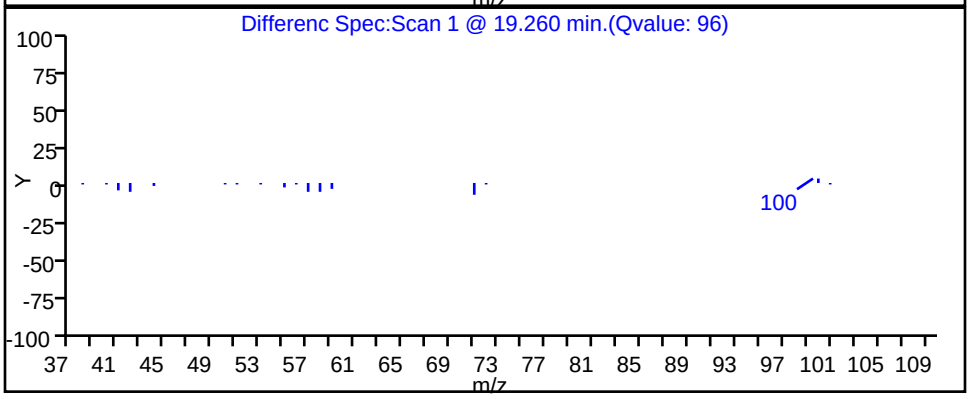












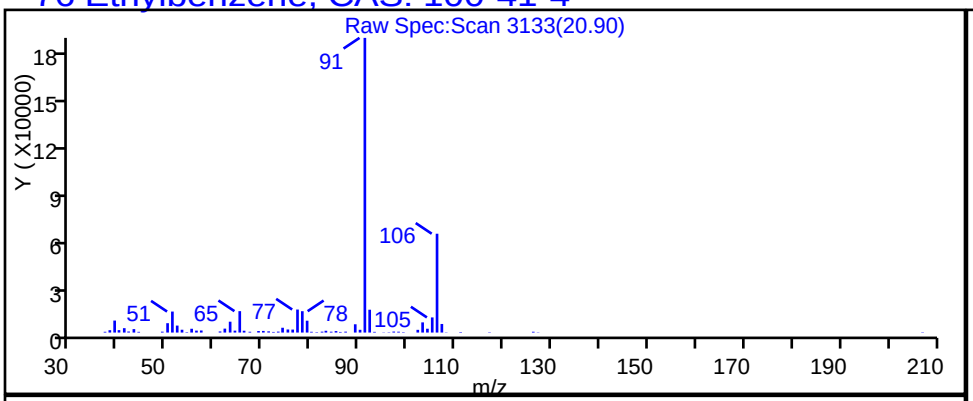
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

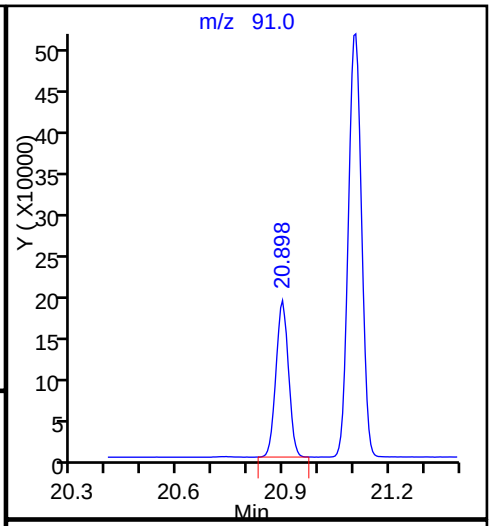
TestAmerica Burlington

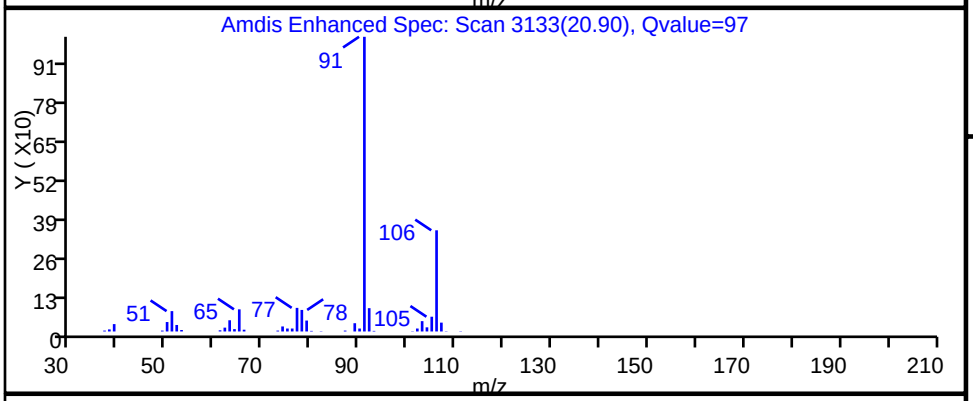
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

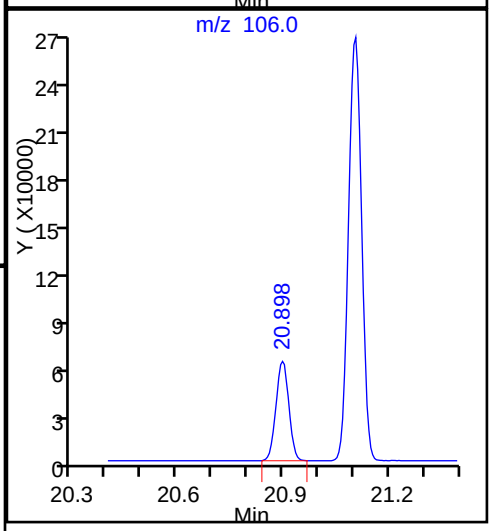
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

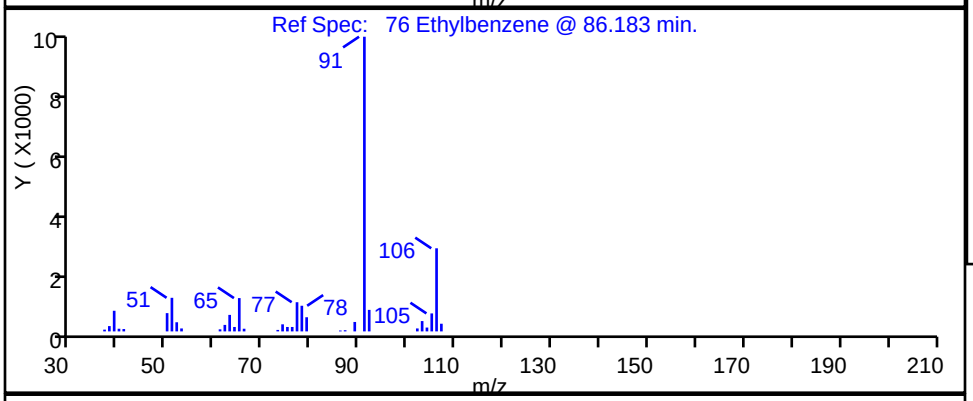
76 Ethylbenzene, CAS: 100-41-4

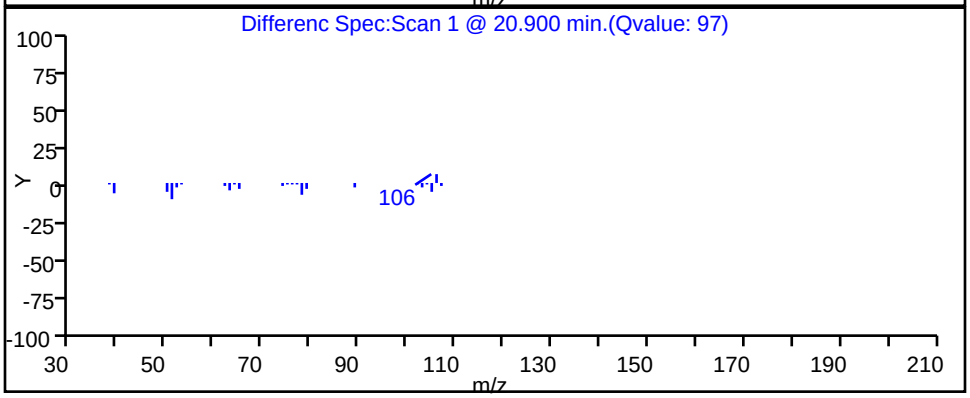










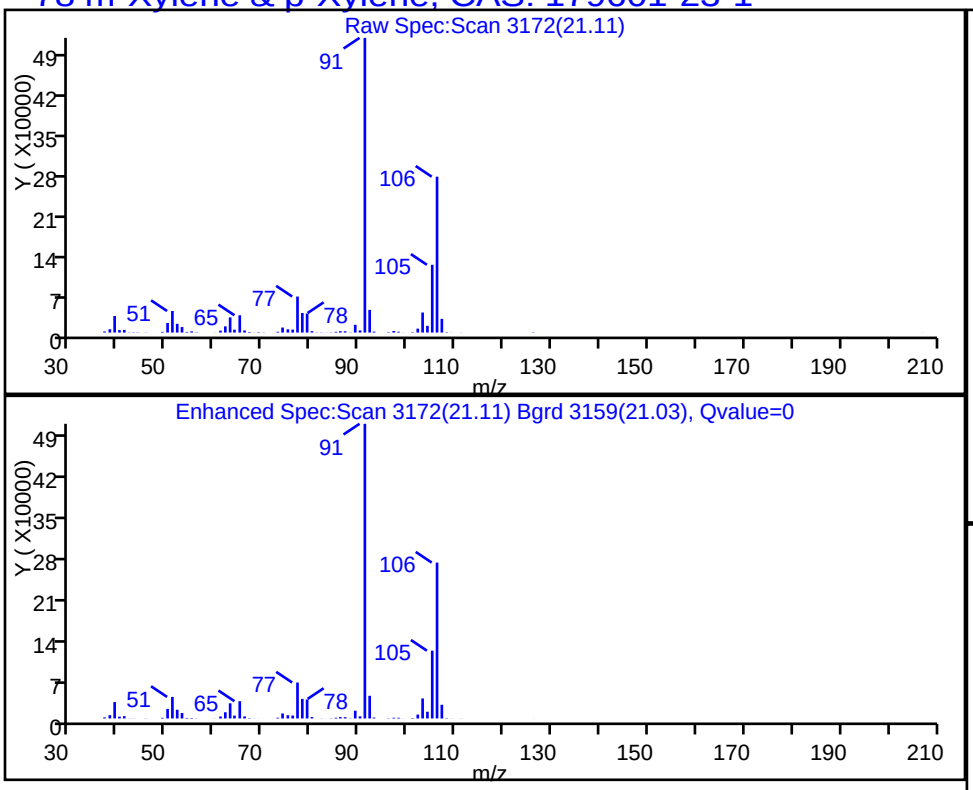


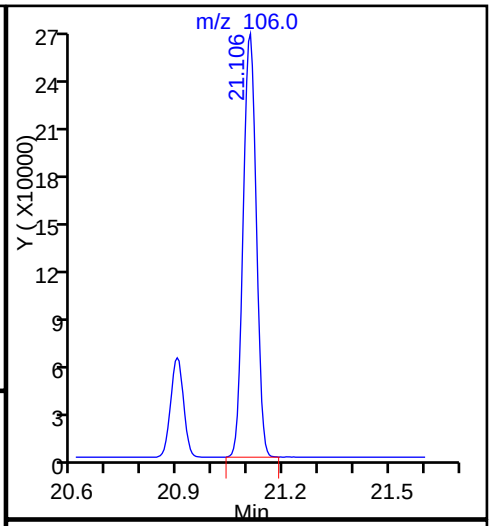
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

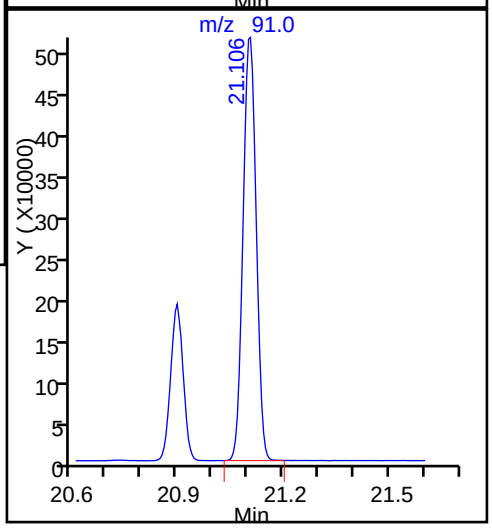
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1





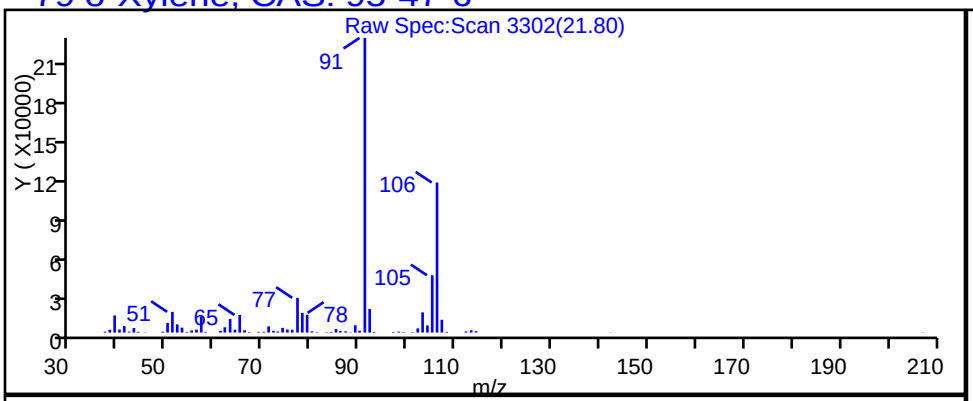


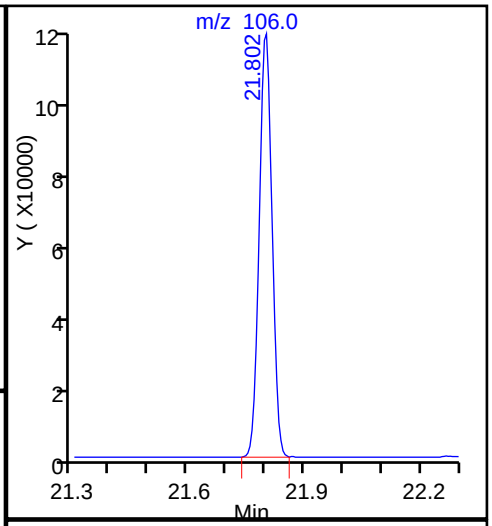
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

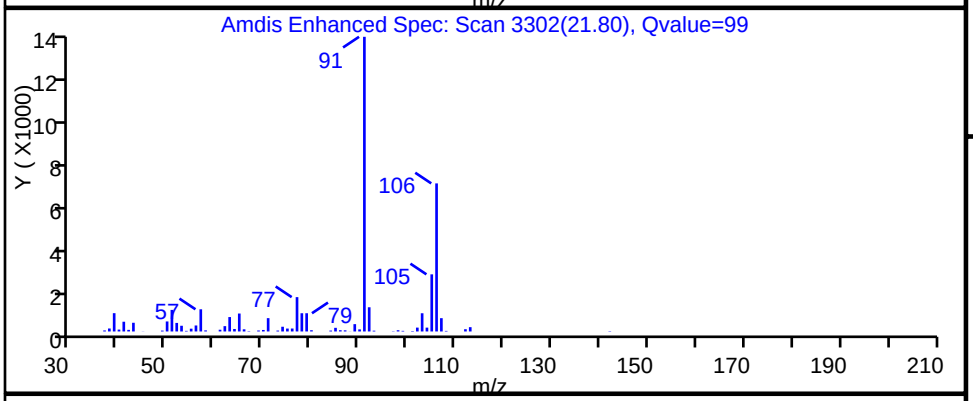
TestAmerica Burlington

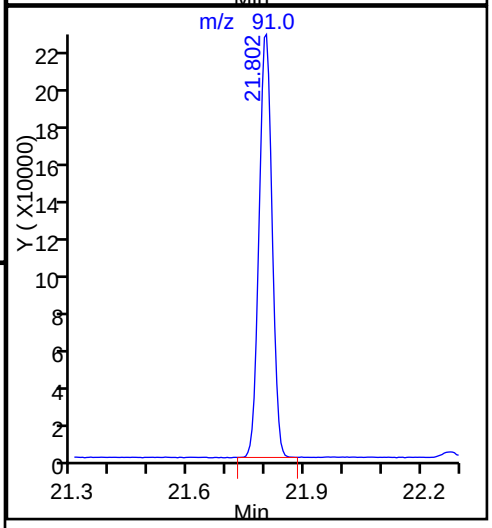
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d		
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4
Client ID:	FR-IA02-092315		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

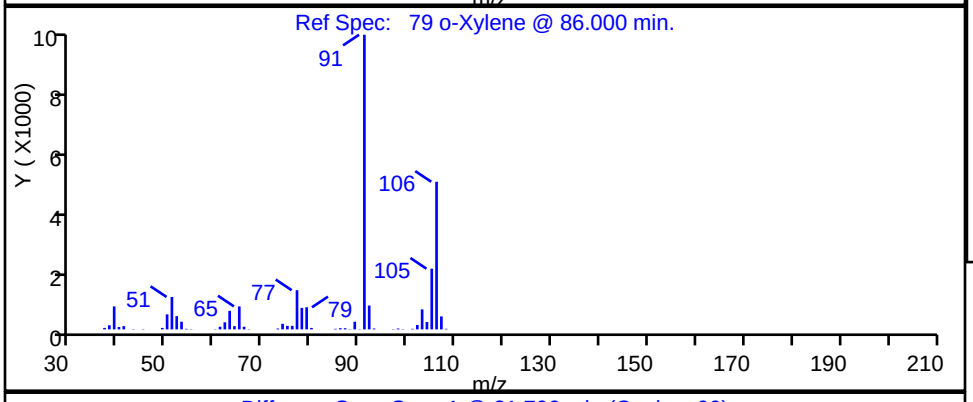
79 o-Xylene, CAS: 95-47-6

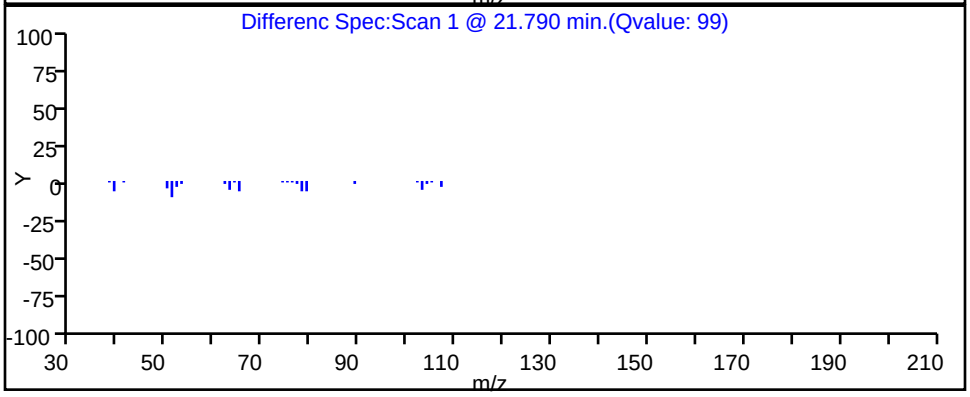










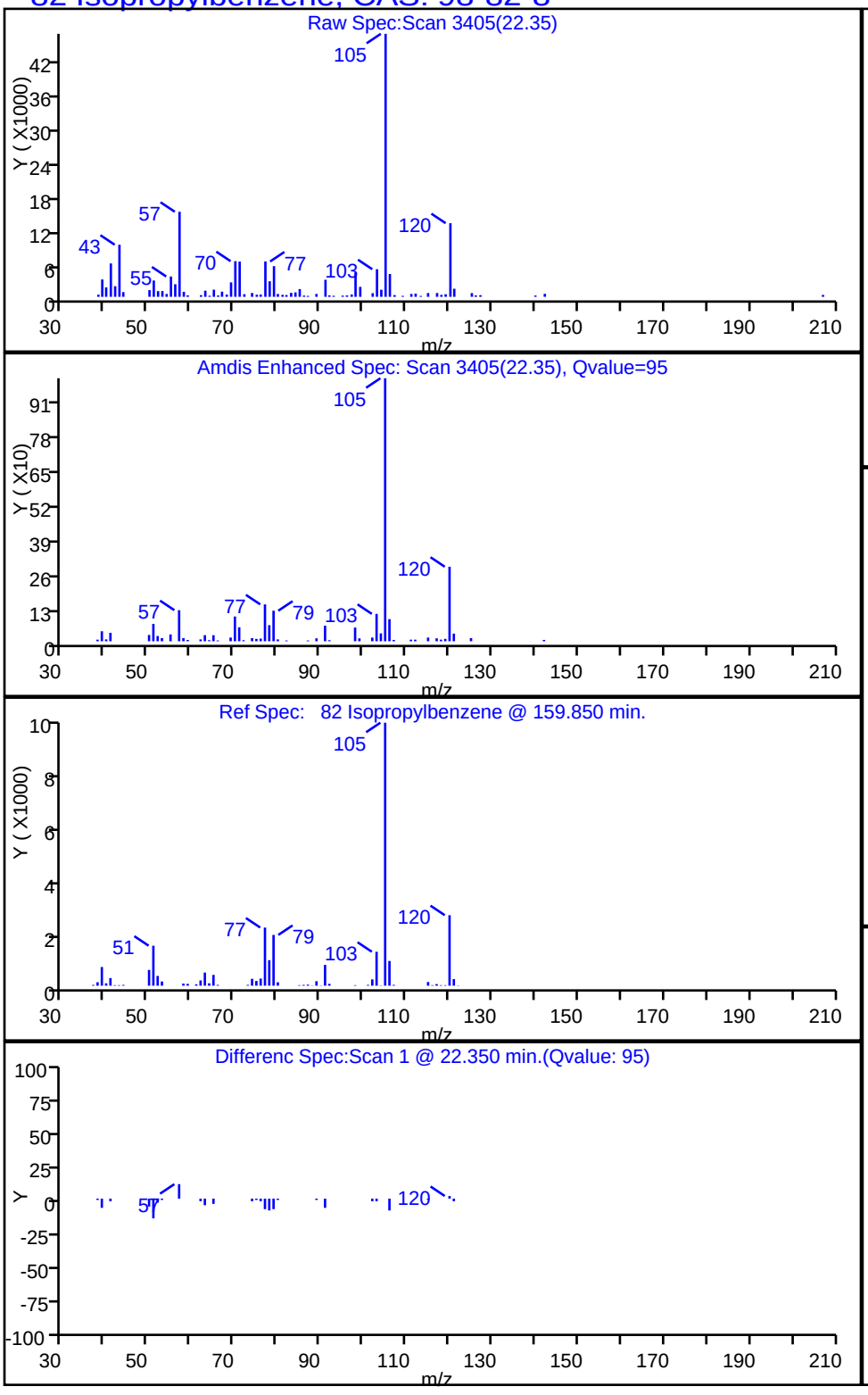


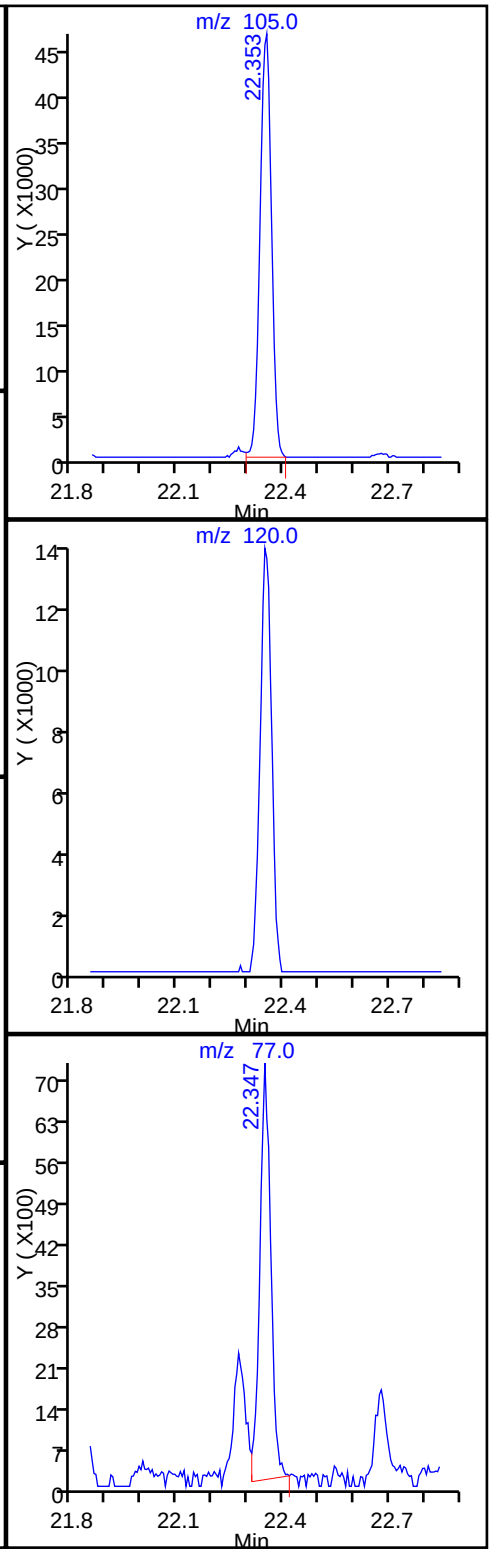
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

82 Isopropylbenzene, CAS: 98-82-8





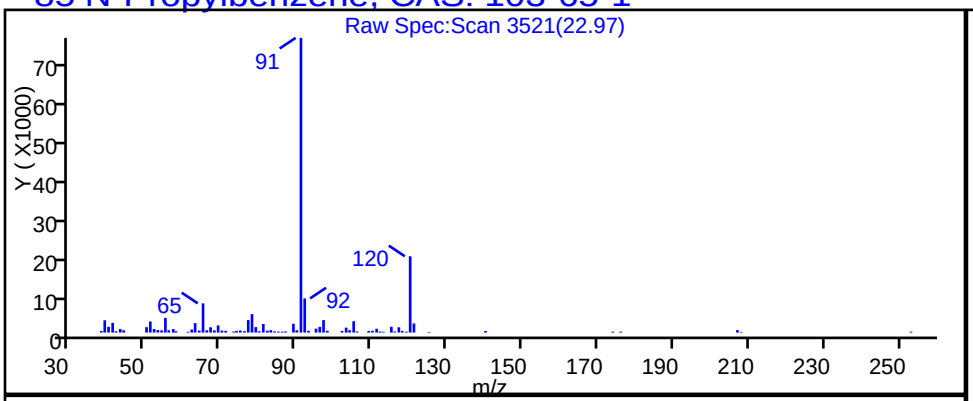
Report Date: 30-Sep-2015 14:17:03 Chrom Revision: 2.2 23-Jul-2015 08:26:08

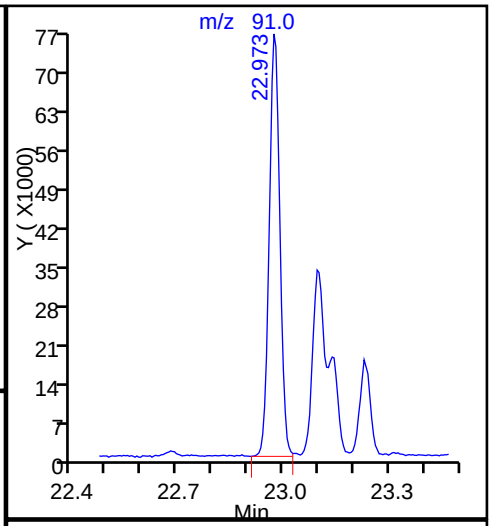
TestAmerica Burlington

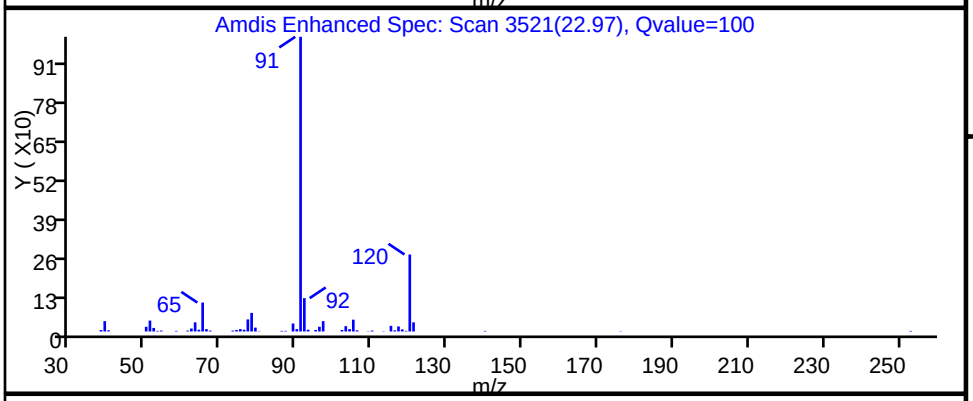
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

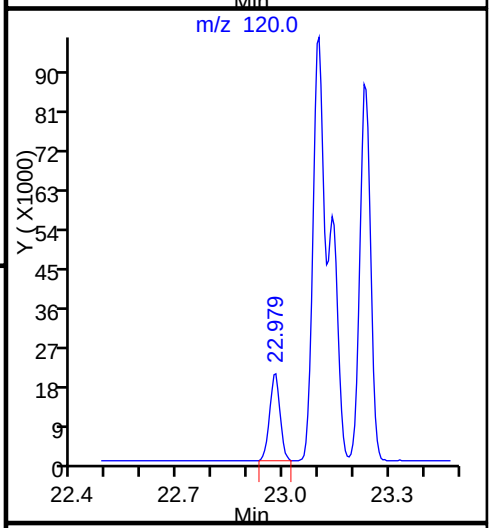
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

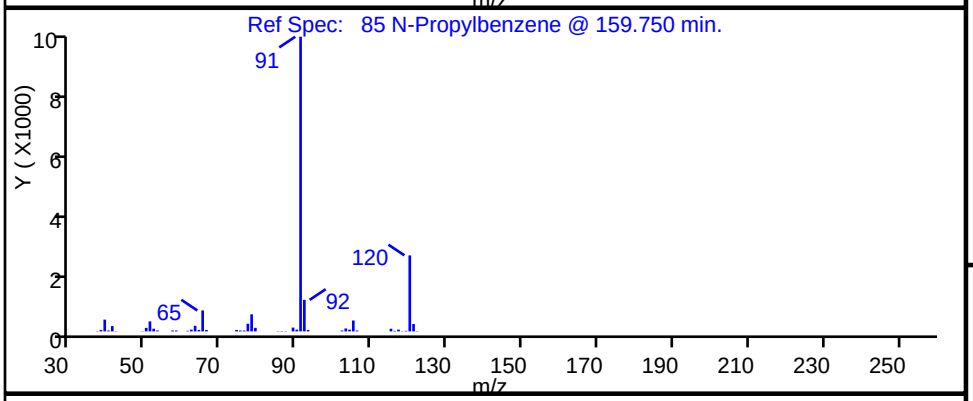
85 N-Propylbenzene, CAS: 103-65-1

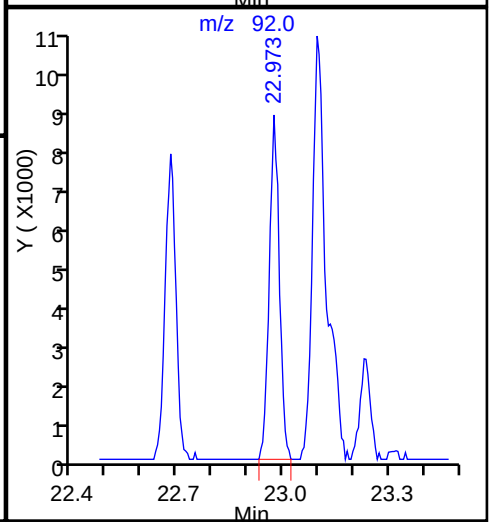


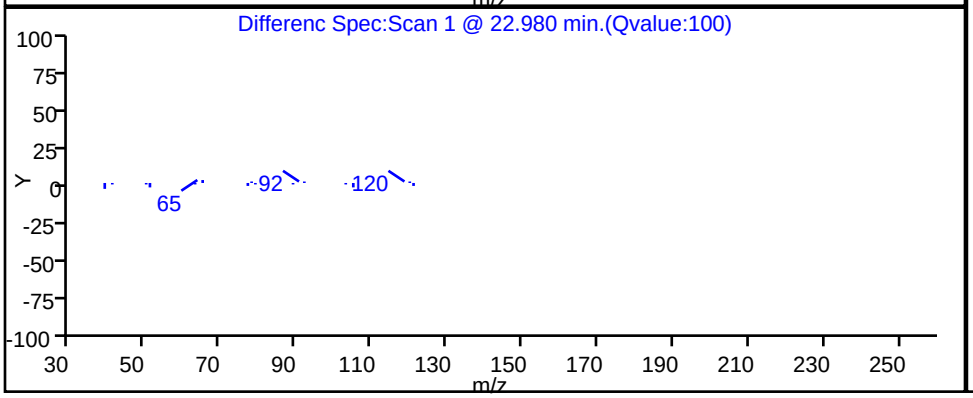












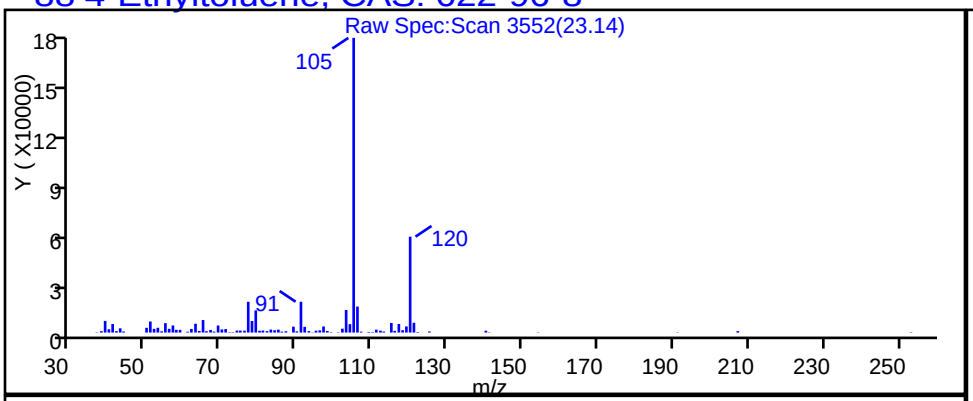
Report Date: 30-Sep-2015 14:17:05 Chrom Revision: 2.2 23-Jul-2015 08:26:08

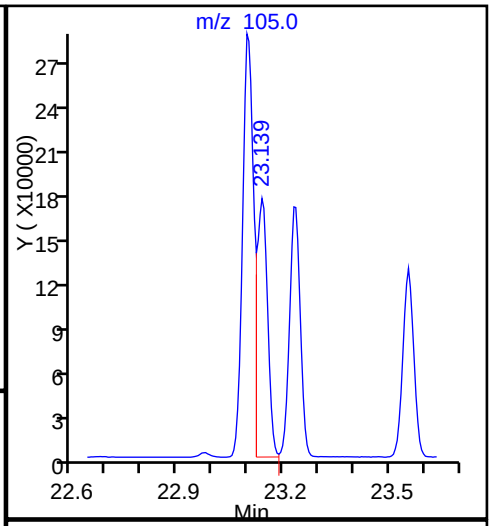
TestAmerica Burlington

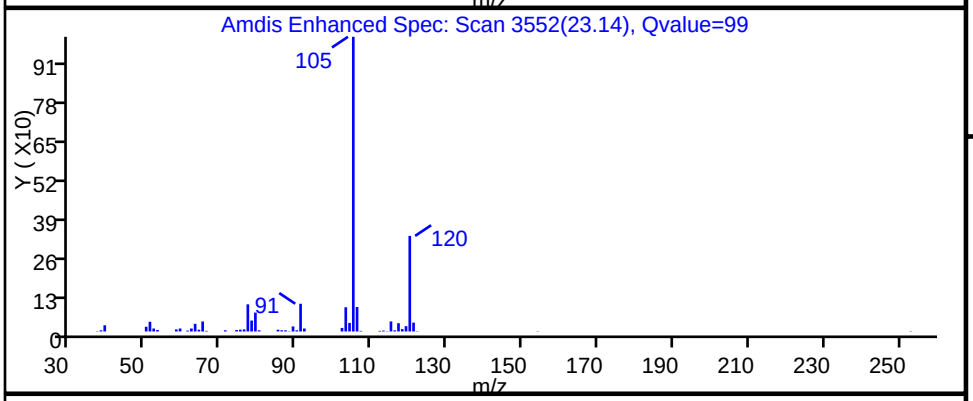
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

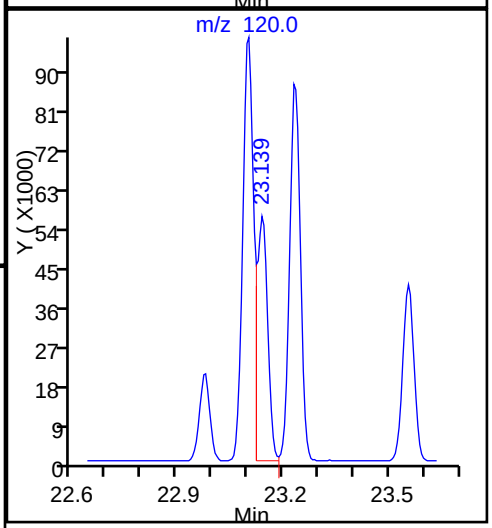
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

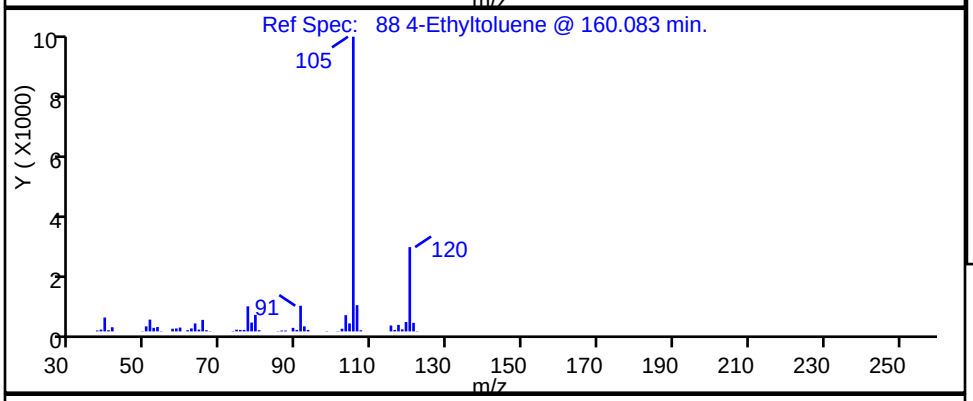
88 4-Ethyltoluene, CAS: 622-96-8

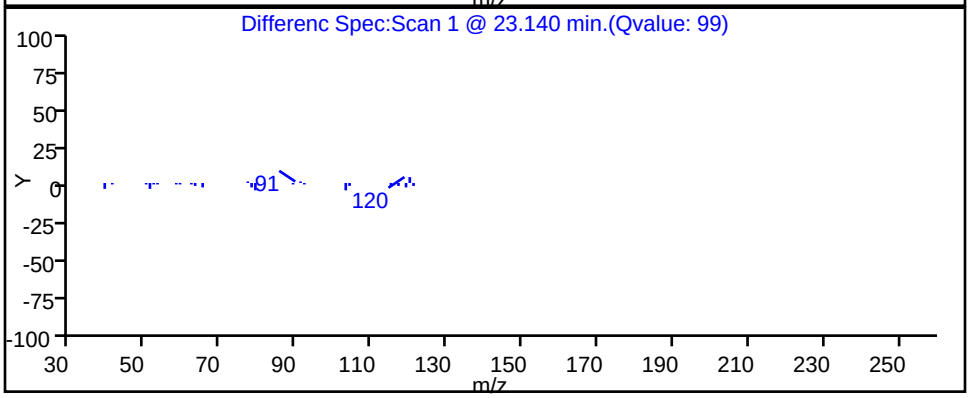












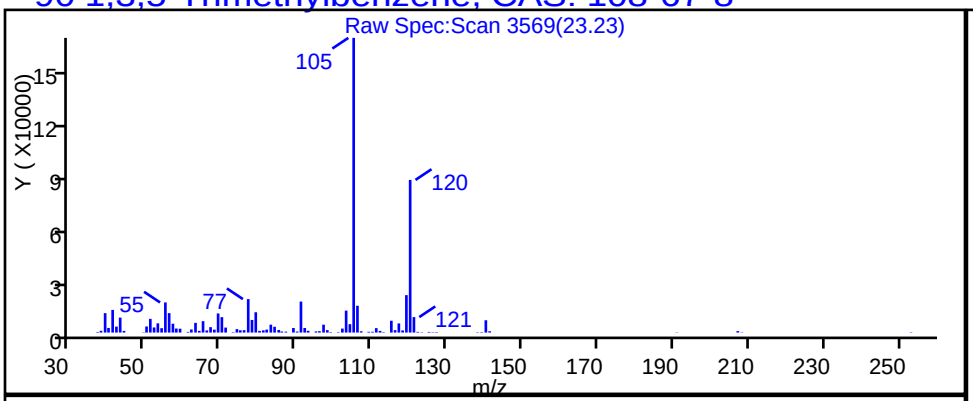
Report Date: 30-Sep-2015 14:17:05 Chrom Revision: 2.2 23-Jul-2015 08:26:08

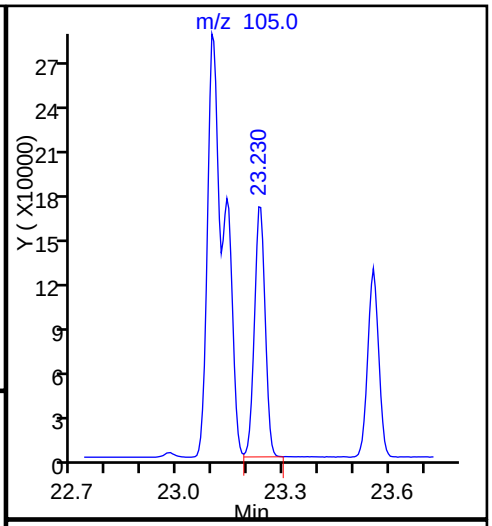
TestAmerica Burlington

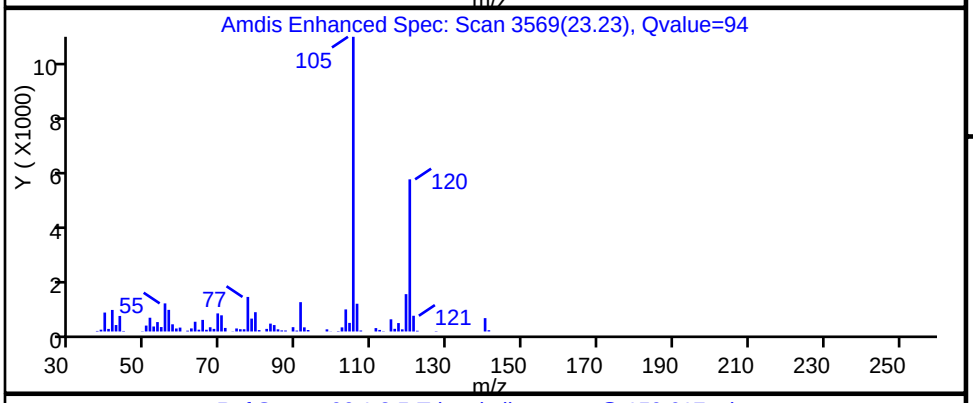
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

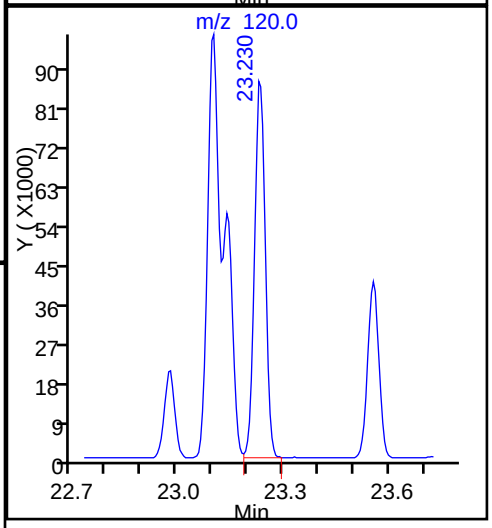
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

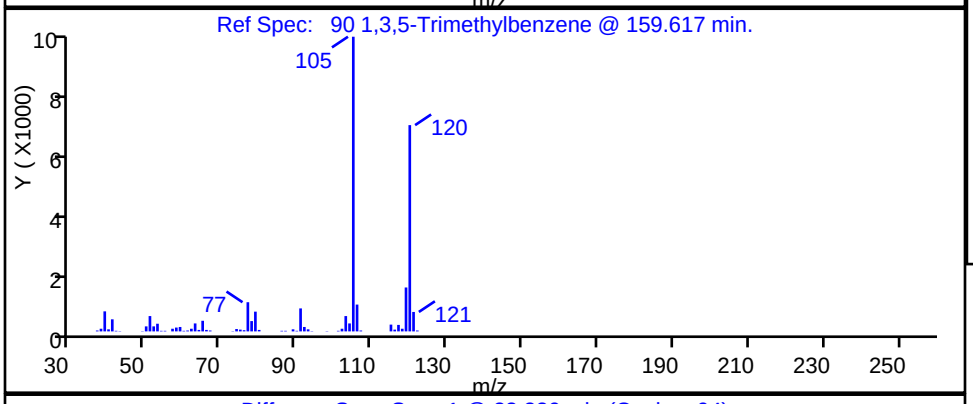
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

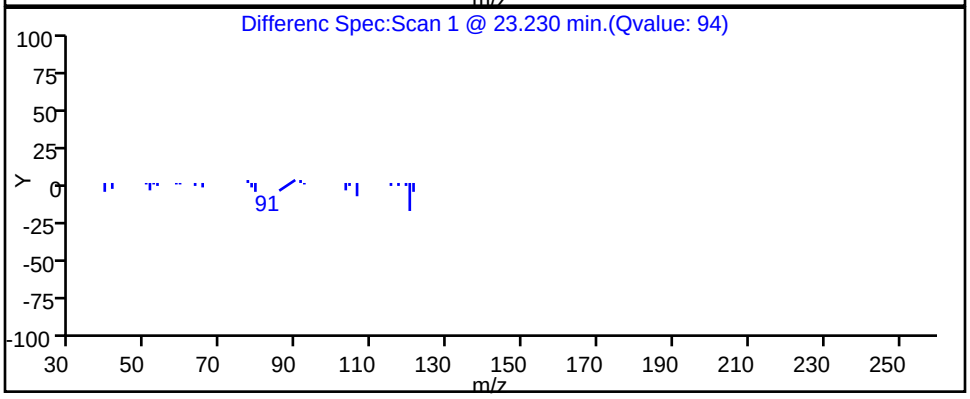










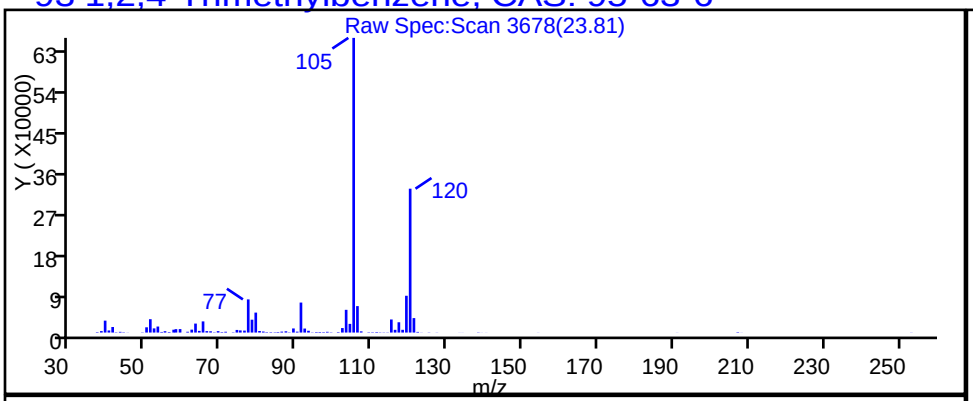


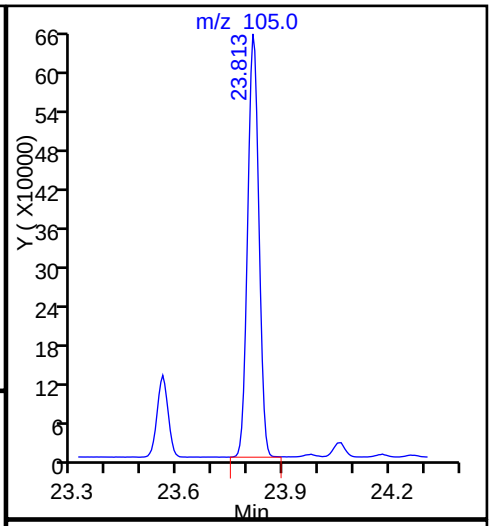
Report Date: 30-Sep-2015 14:17:05 Chrom Revision: 2.2 23-Jul-2015 08:26:08

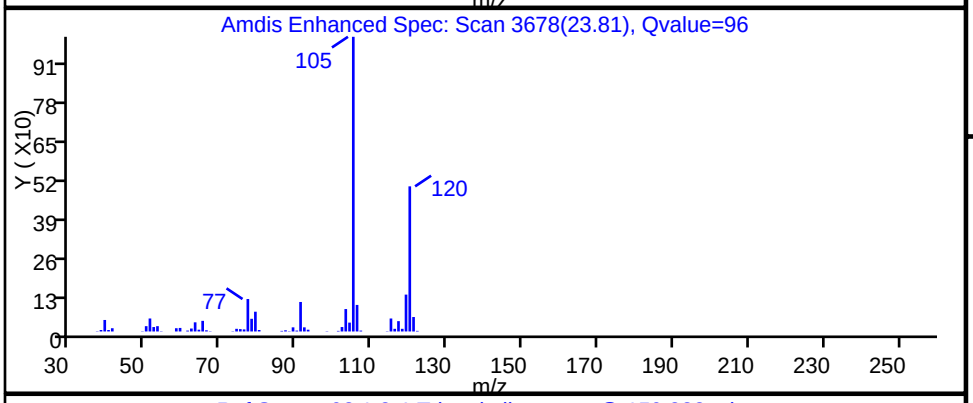
TestAmerica Burlington

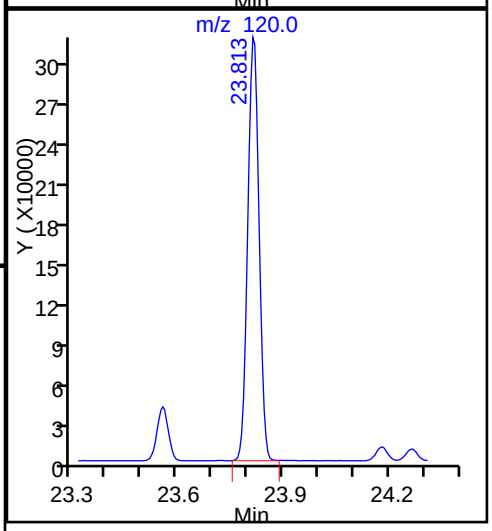
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

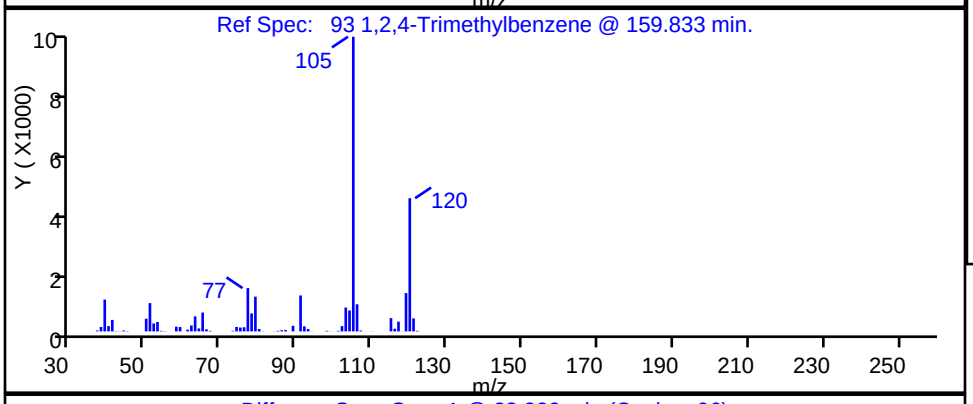
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

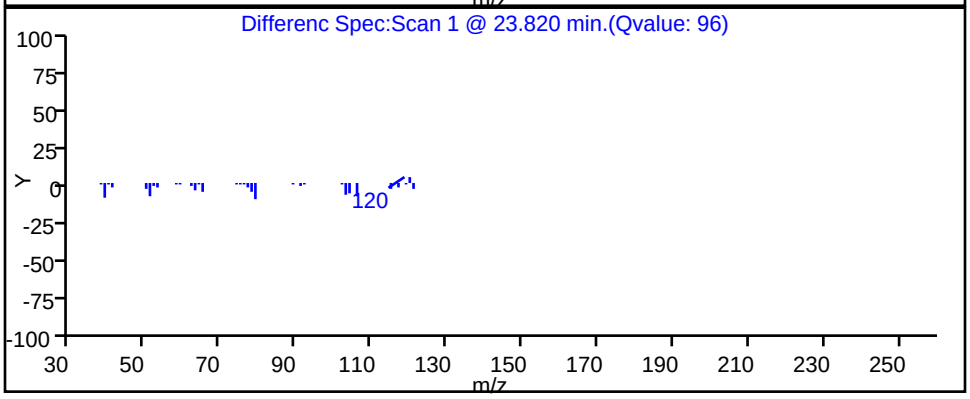










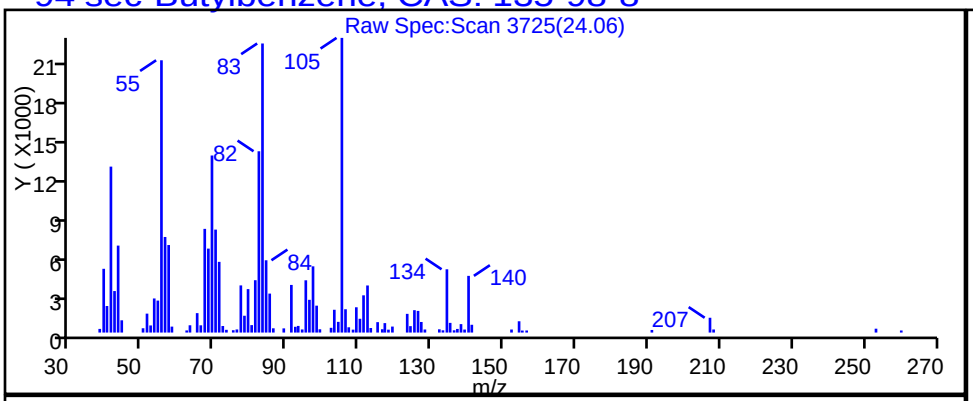


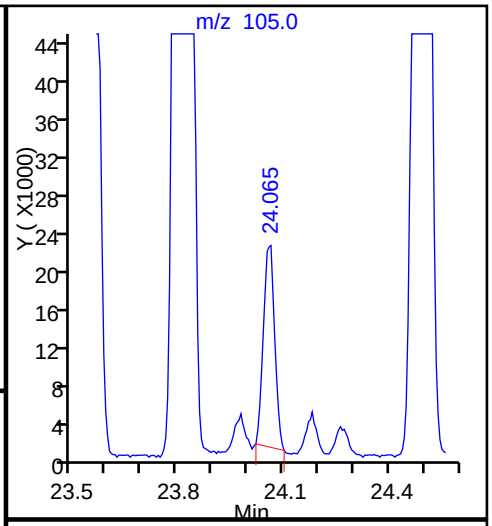
Report Date: 30-Sep-2015 14:17:05 Chrom Revision: 2.2 23-Jul-2015 08:26:08

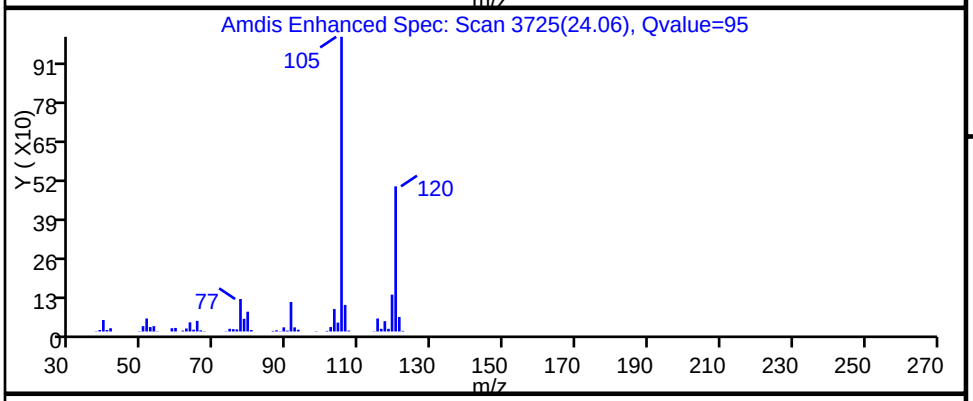
TestAmerica Burlington

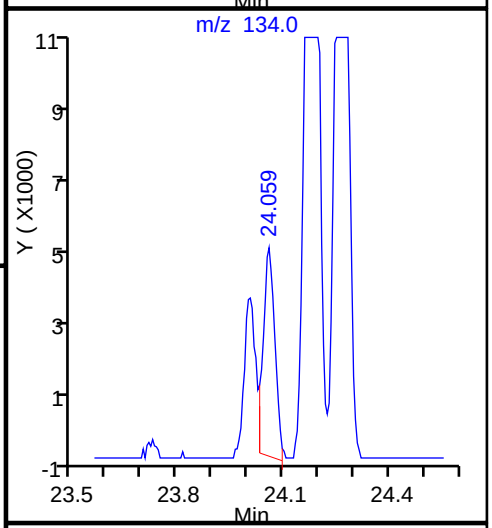
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

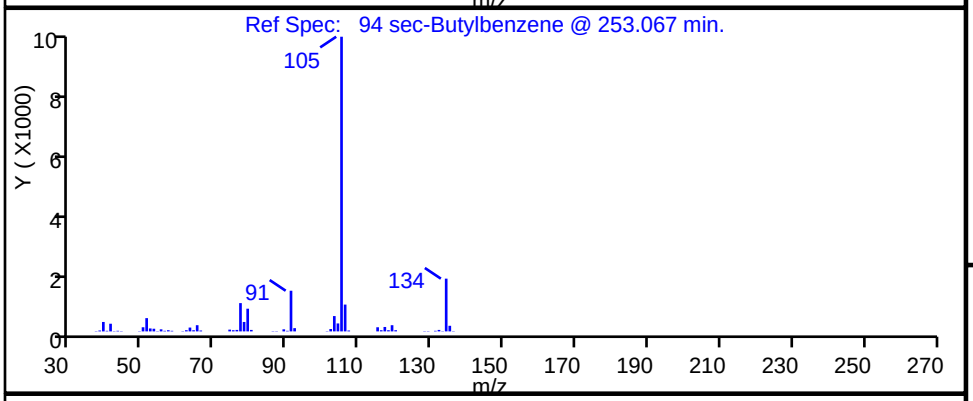
94 sec-Butylbenzene, CAS: 135-98-8

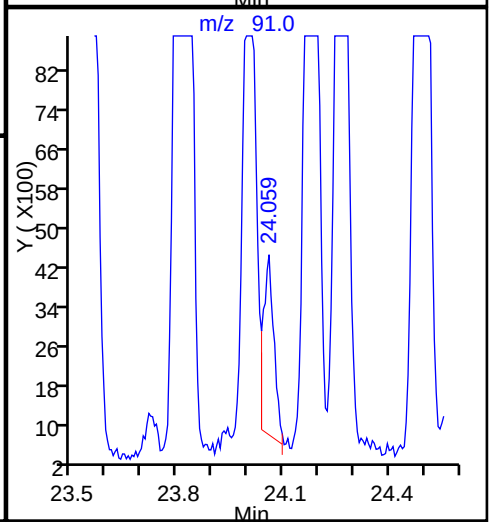


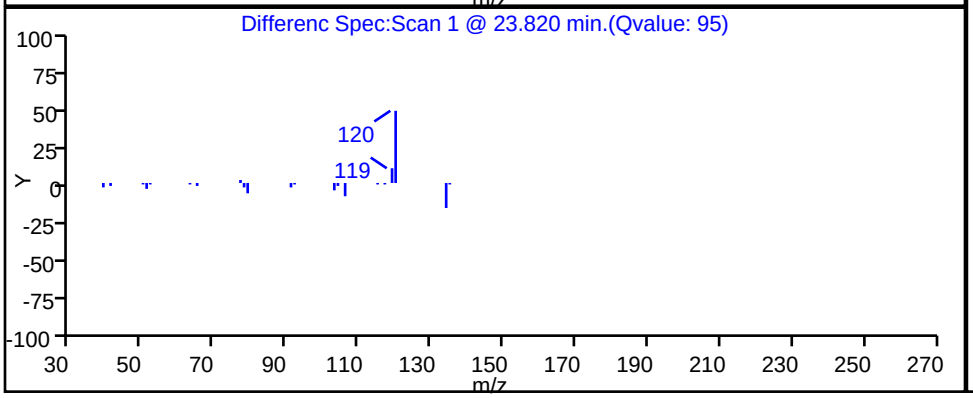












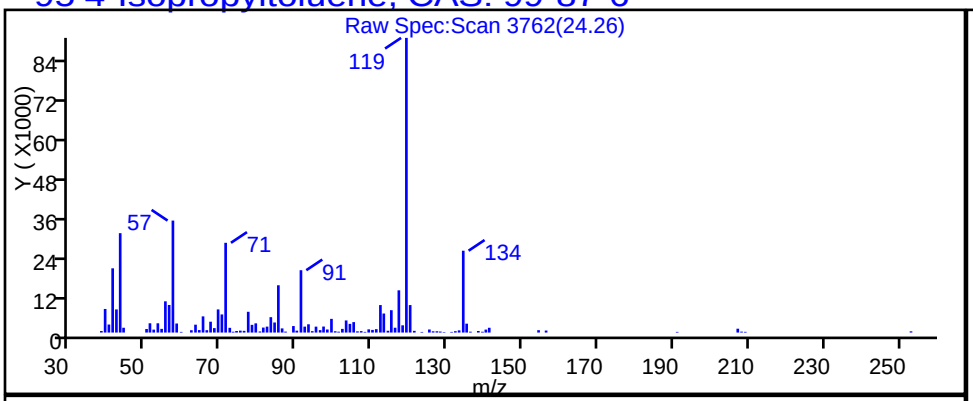
Report Date: 30-Sep-2015 14:17:06 Chrom Revision: 2.2 23-Jul-2015 08:26:08

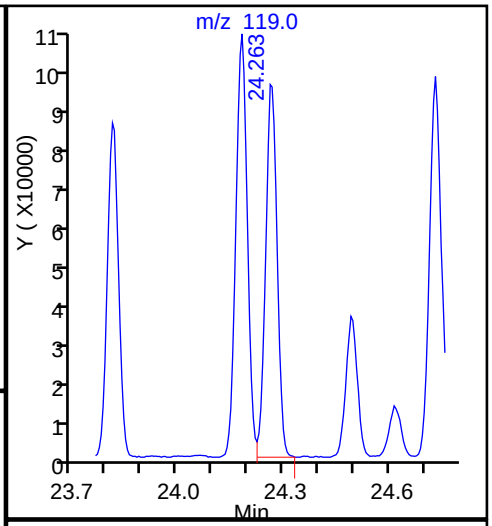
TestAmerica Burlington

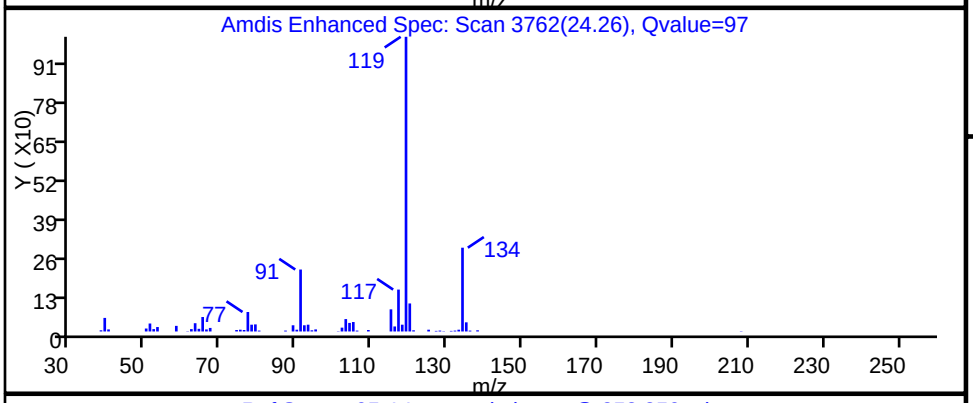
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d

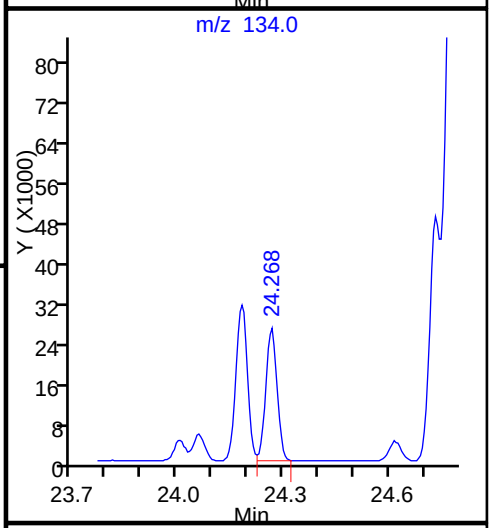
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

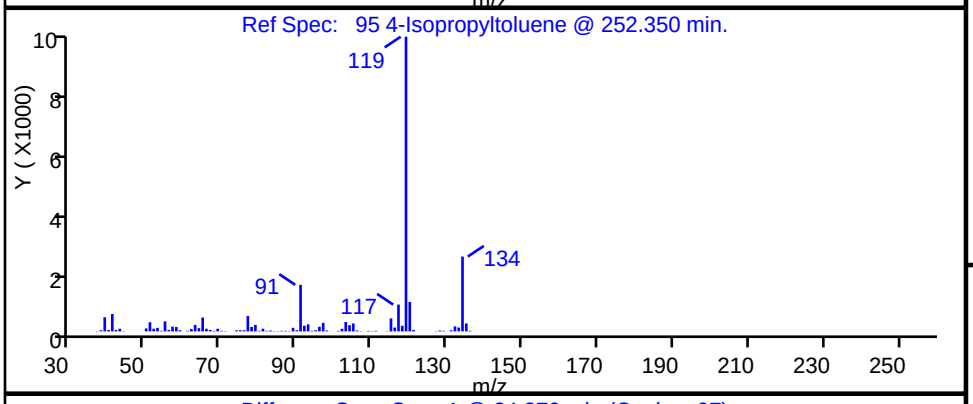
95 4-Isopropyltoluene, CAS: 99-87-6

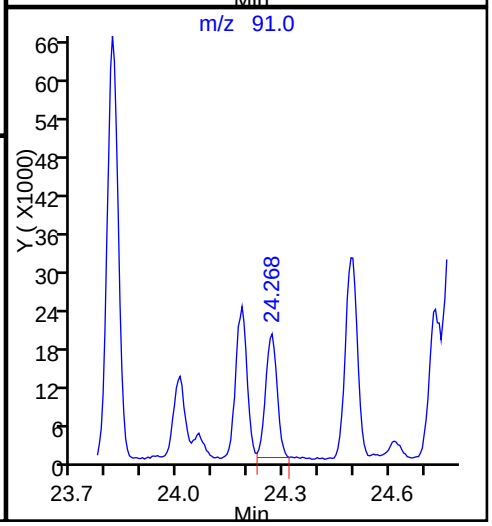


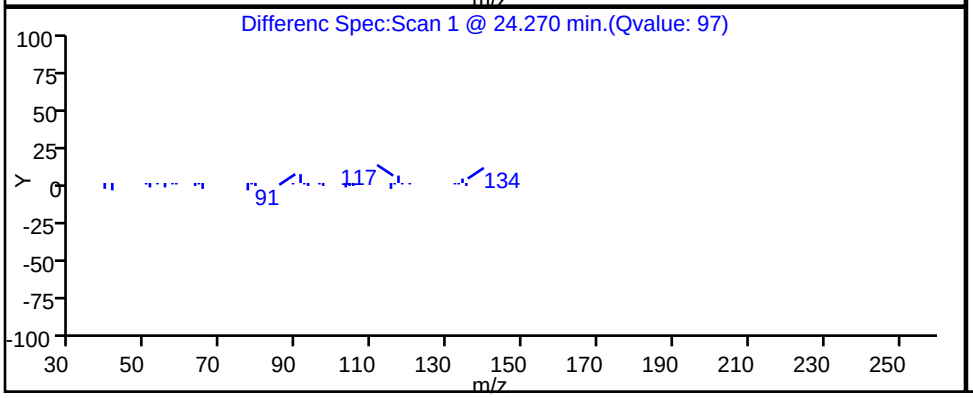










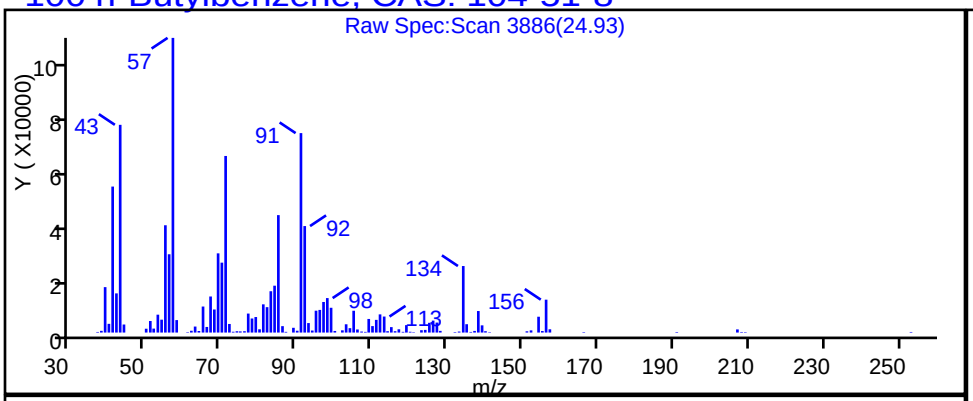


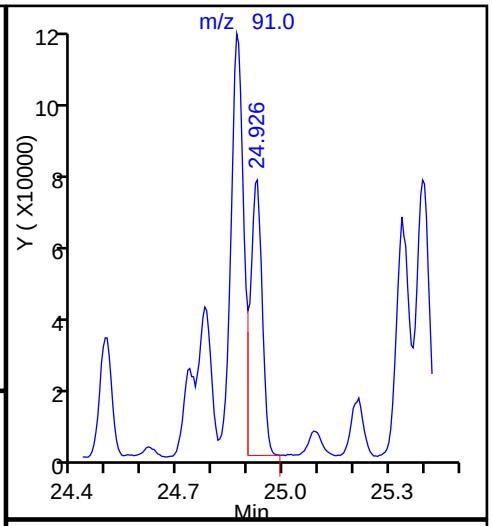
Report Date: 30-Sep-2015 14:17:06 Chrom Revision: 2.2 23-Jul-2015 08:26:08

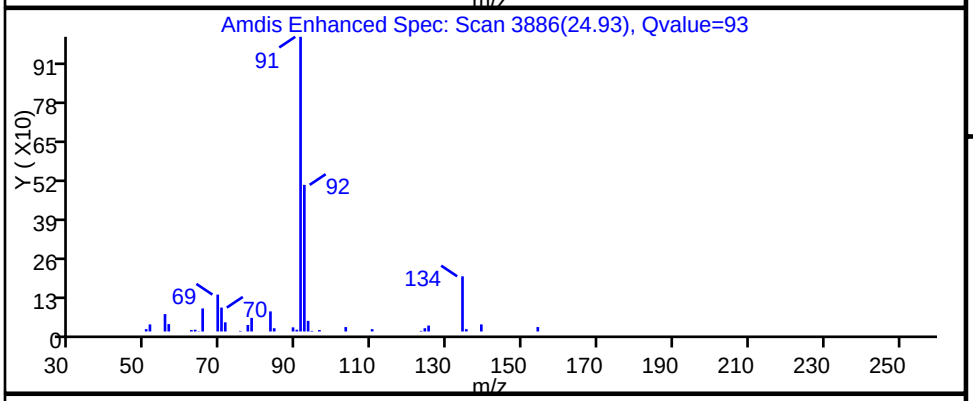
TestAmerica Burlington

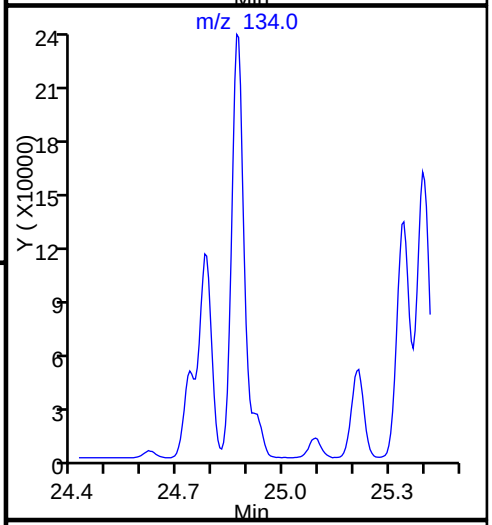
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d		
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4
Client ID:	FR-IA02-092315		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

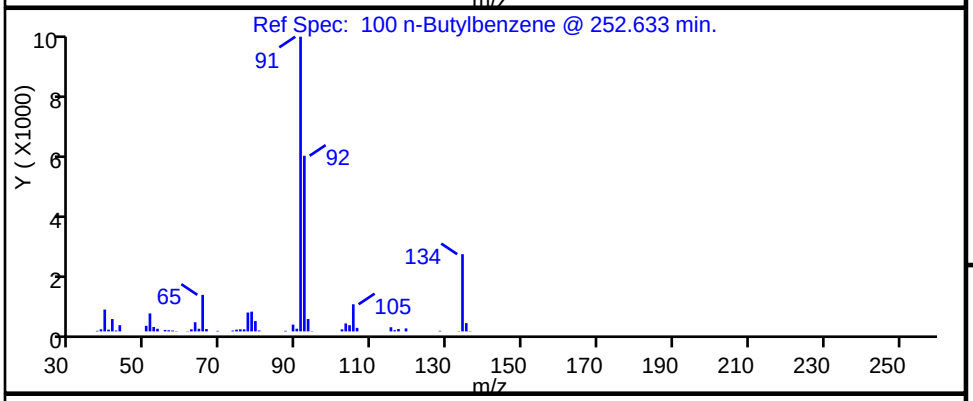
100 n-Butylbenzene, CAS: 104-51-8

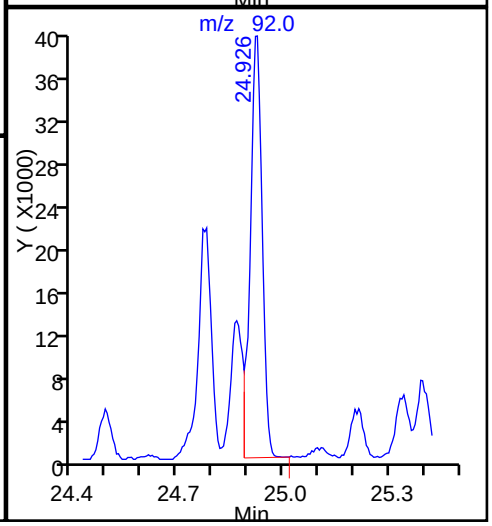


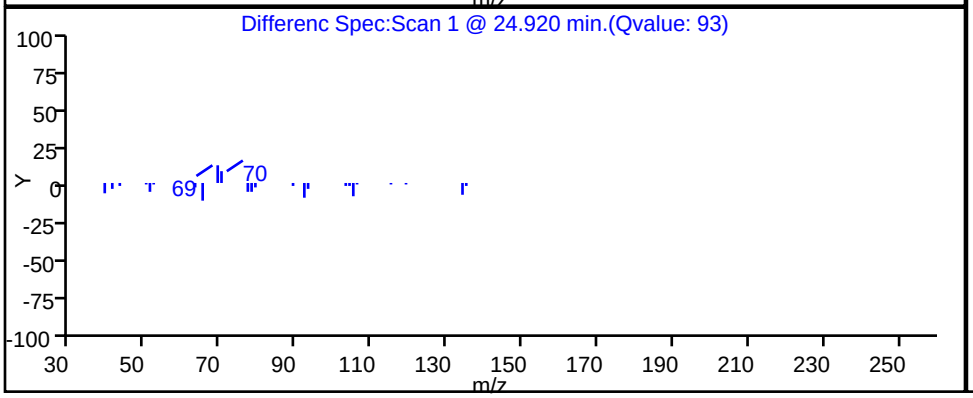










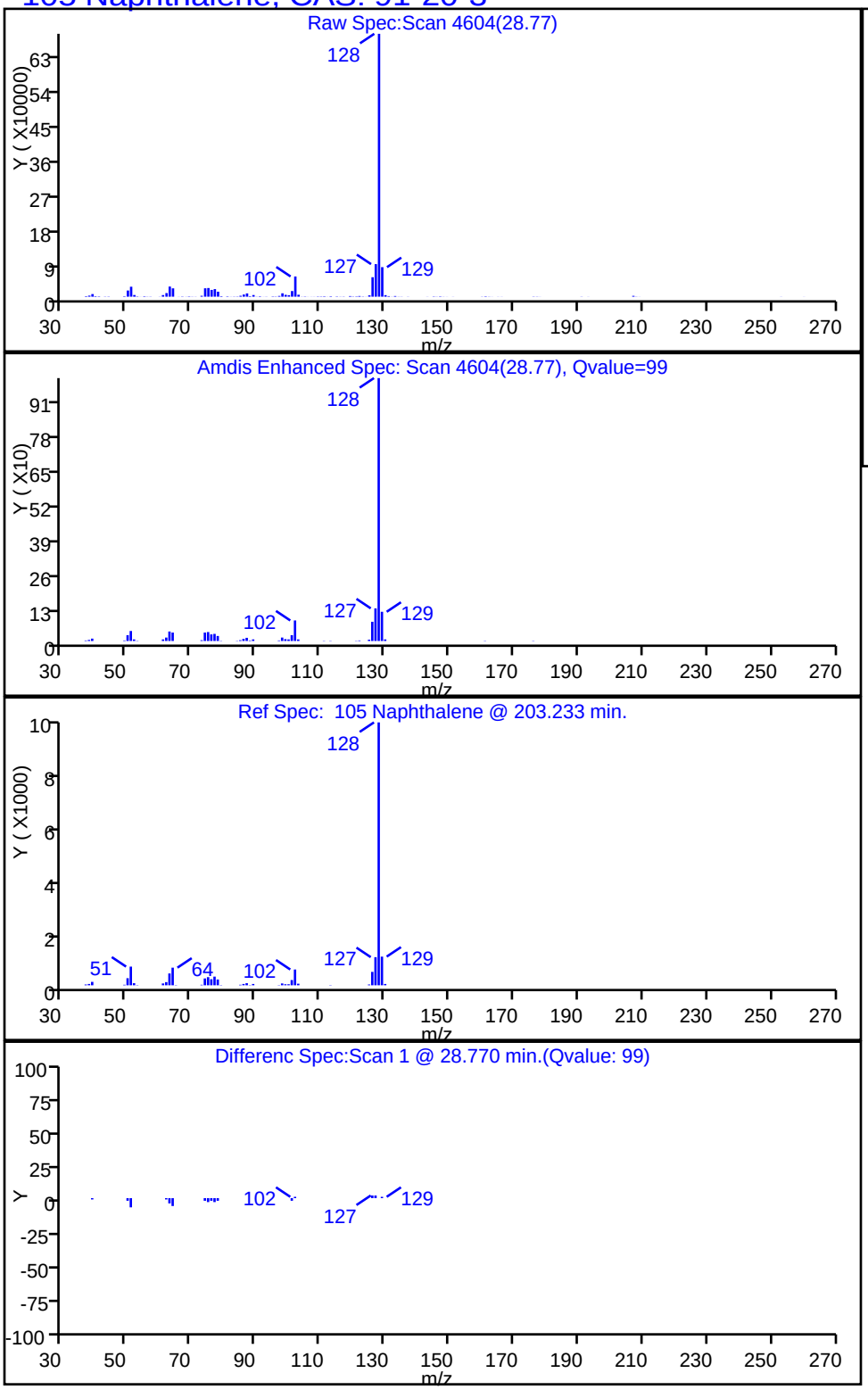


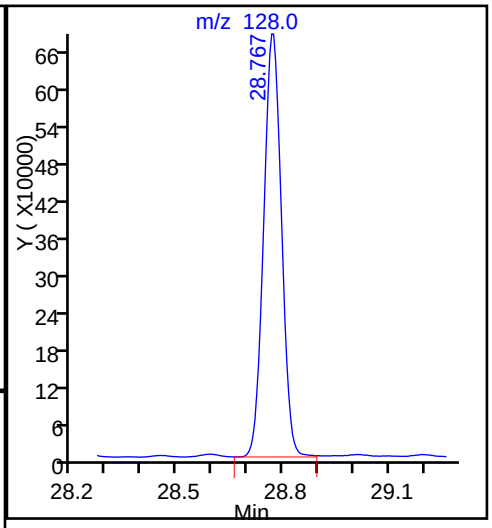
Report Date: 30-Sep-2015 14:17:06 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

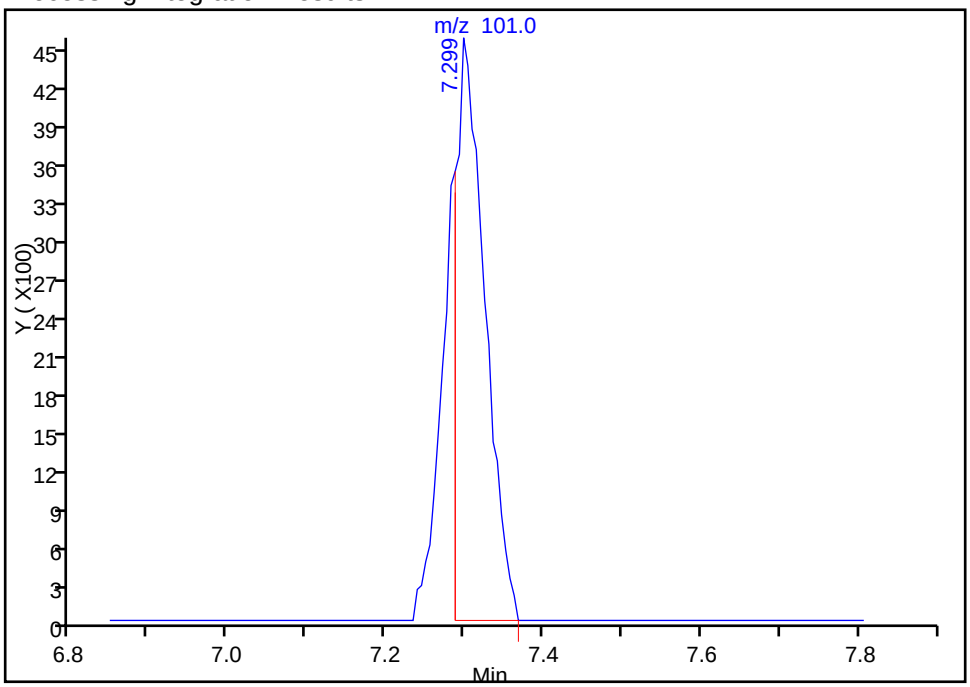
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

14 Trichlorofluoromethane, CAS: 75-69-4

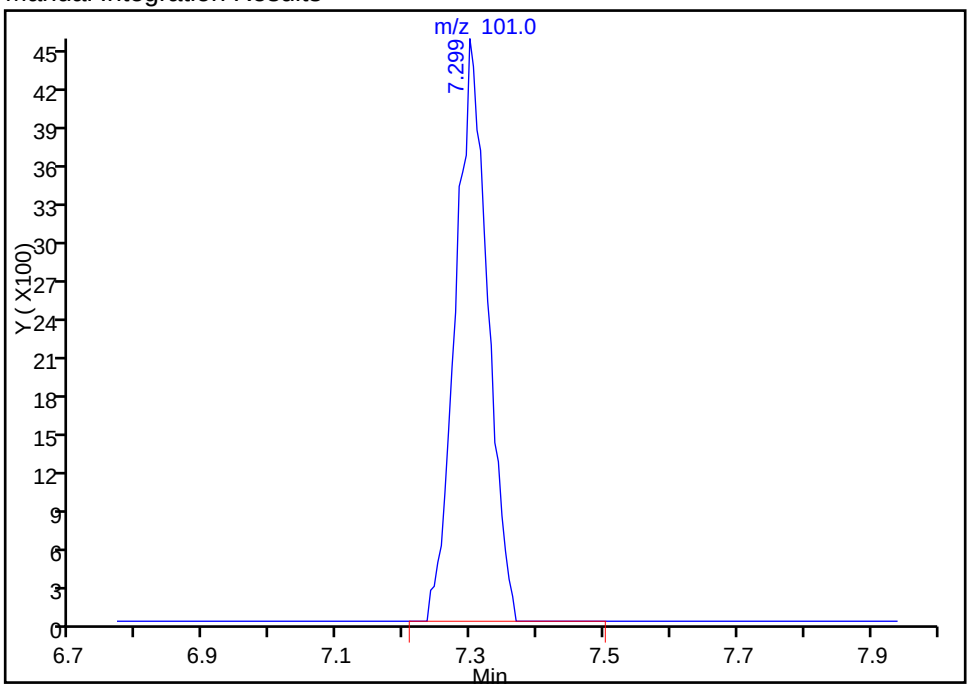
Processing Integration Results

RT: 7.30
Area: 11500
Amount: 0.190910
Amount Units: ppb v/v



Manual Integration Results

RT: 7.30
Area: 15304
Amount: 0.254060
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:40:37
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

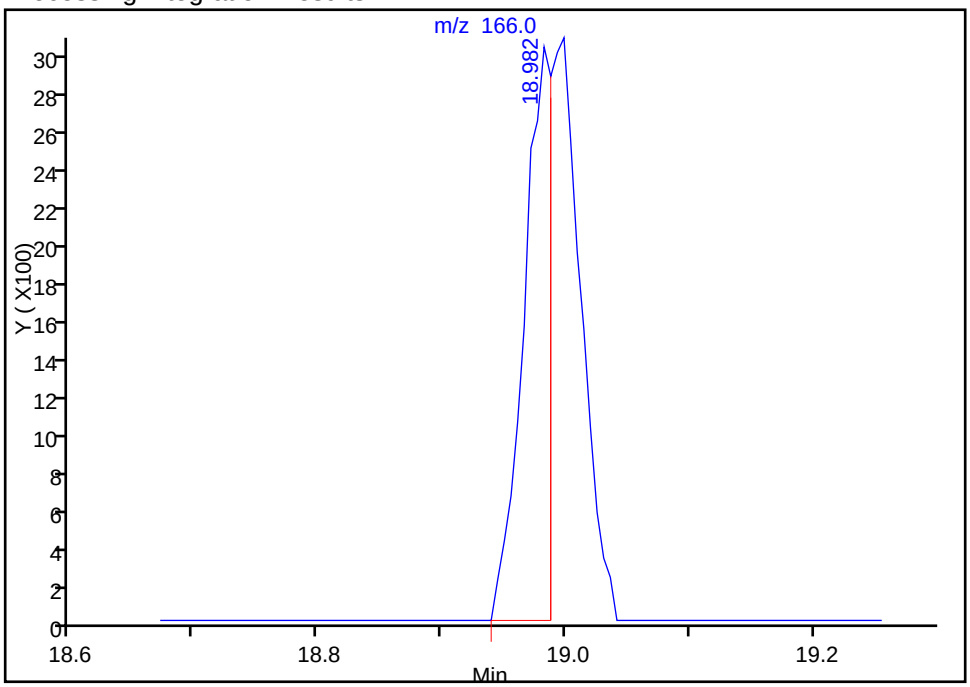
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

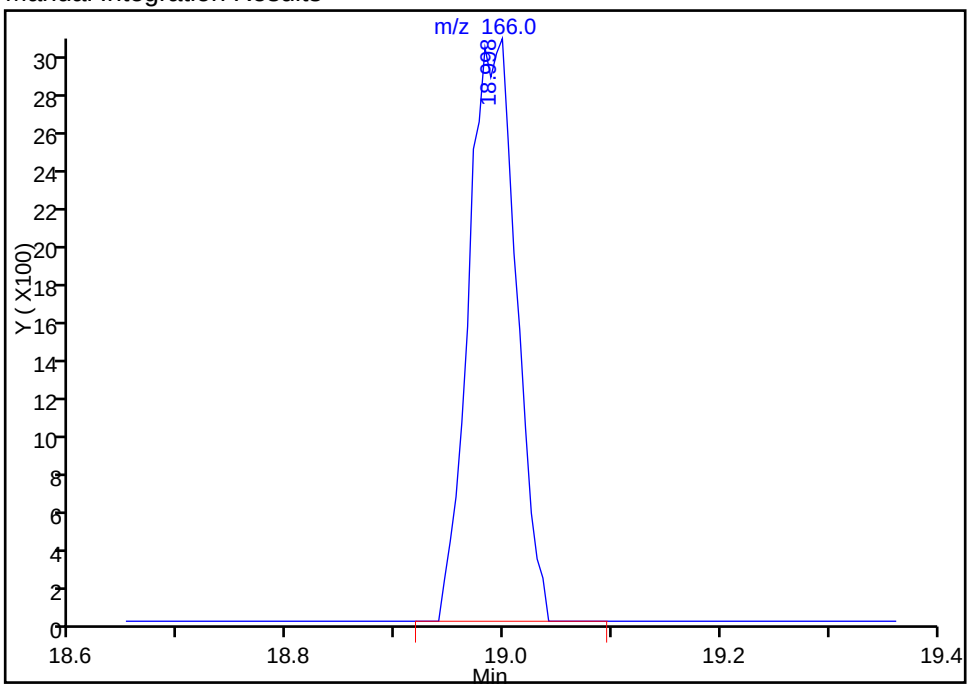
Processing Integration Results

RT: 18.98
Area: 4793
Amount: 0.080740
Amount Units: ppb v/v



Manual Integration Results

RT: 19.00
Area: 9364
Amount: 0.157741
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:40:37
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

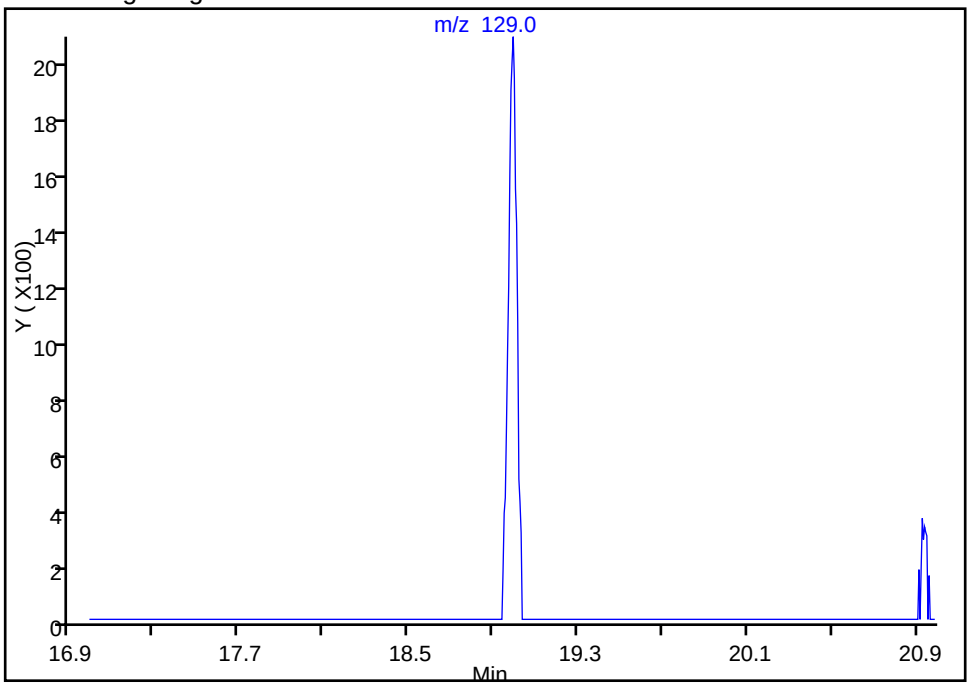
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

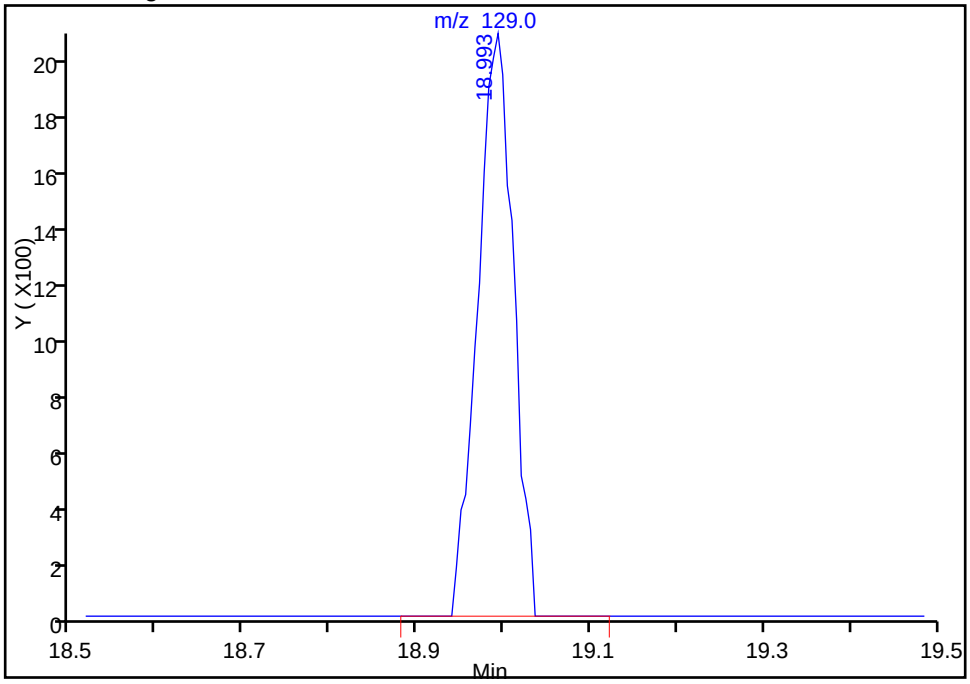
Processing Integration Results

RT: 18.99
Area: 0
Amount: 0.080740
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 5866
Amount: 0.157741
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:40:37
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

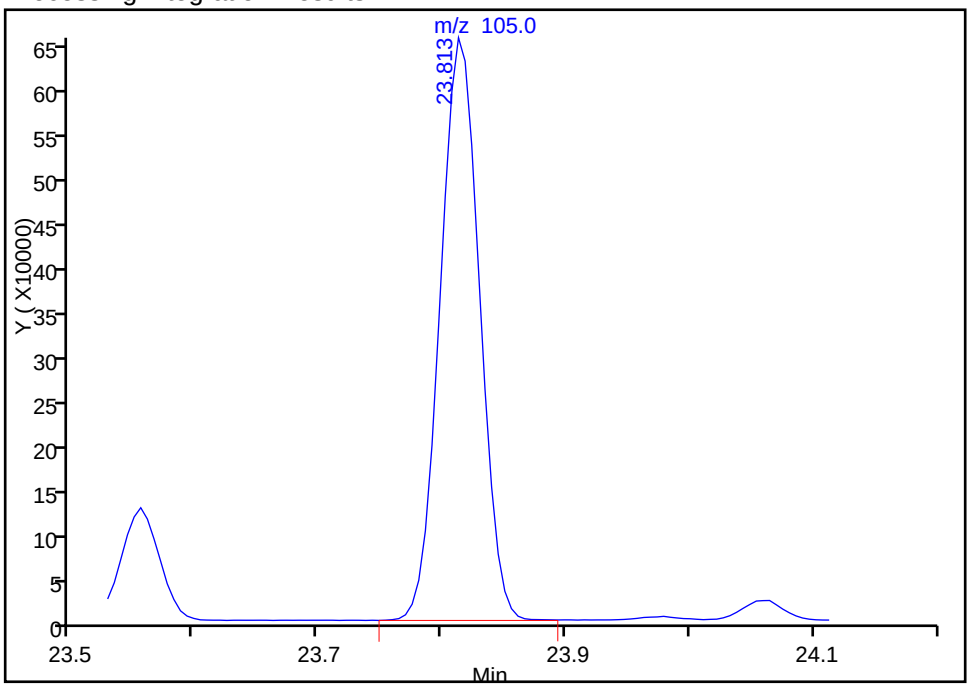
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 sec-Butylbenzene, CAS: 135-98-8

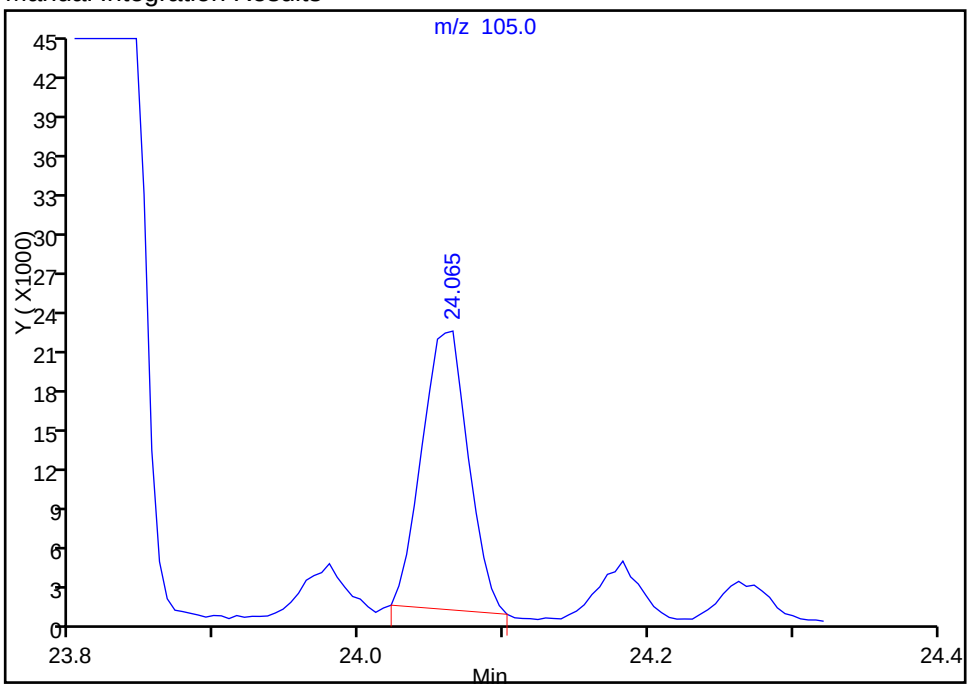
Processing Integration Results

RT: 23.81
Area: 1449302
Amount: 8.123797
Amount Units: ppb v/v



Manual Integration Results

RT: 24.06
Area: 47405
Amount: 0.265720
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:40:37
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

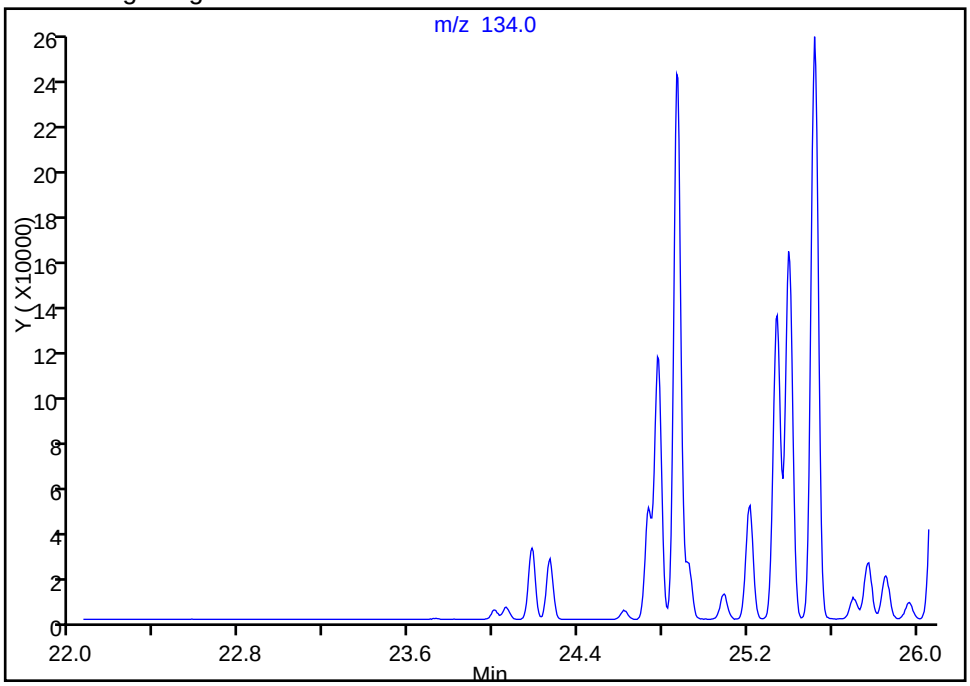
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 sec-Butylbenzene, CAS: 135-98-8

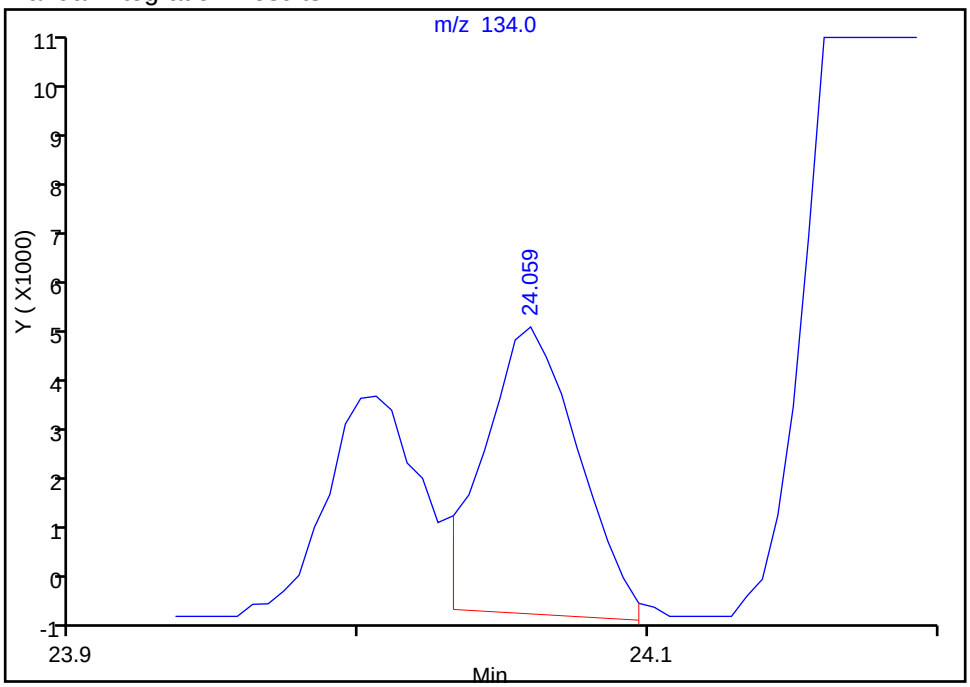
Processing Integration Results

RT: 24.06
Area: 0
Amount: 8.123797
Amount Units: ppb v/v



Manual Integration Results

RT: 24.06
Area: 12129
Amount: 0.265720
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:40:37
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

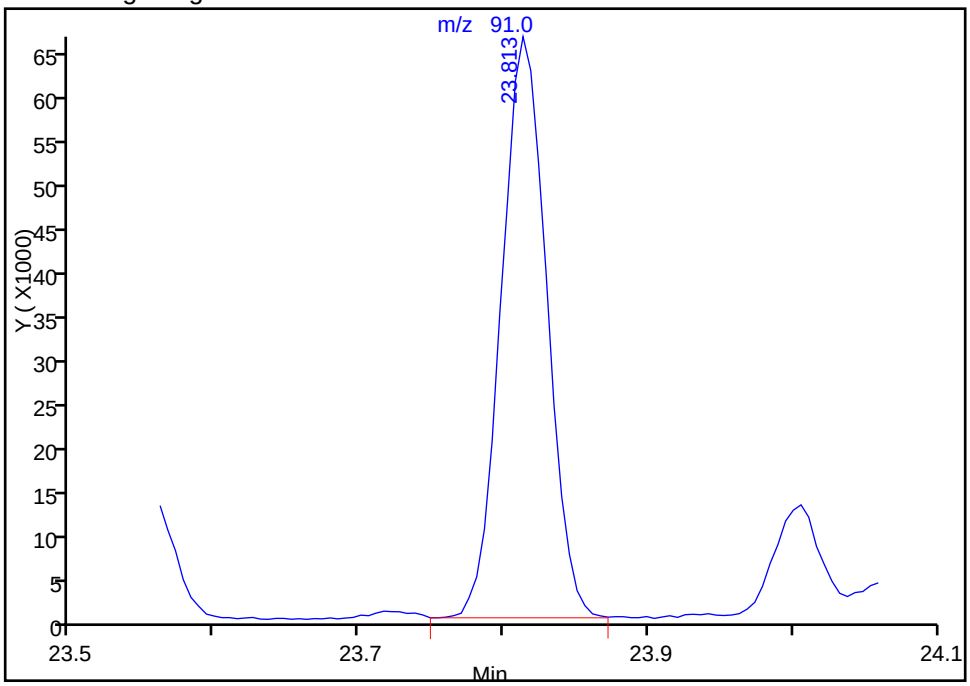
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_008.d				
Injection Date:	29-Sep-2015 16:16:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

94 sec-Butylbenzene, CAS: 135-98-8

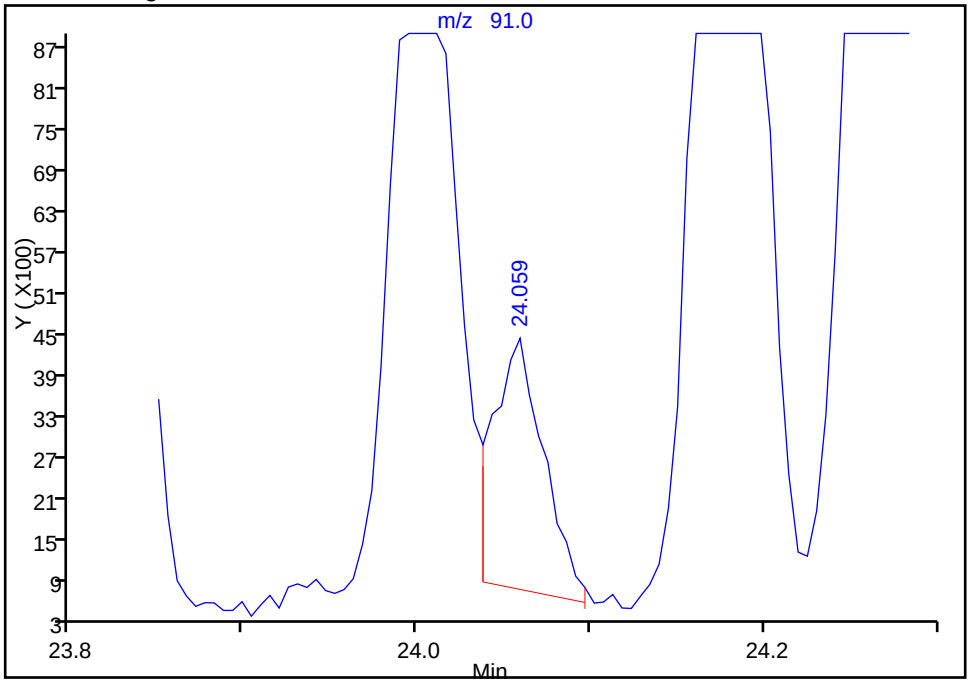
Processing Integration Results

RT: 23.81
Area: 144504
Amount: 8.123797
Amount Units: ppb v/v



Manual Integration Results

RT: 24.06
Area: 7559
Amount: 0.265720
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:40:37
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 DL | Lab Sample ID: 200-29972-4 DL

Matrix: Air | Lab File ID: 16024_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 40(mL) | Date Analyzed: 09/30/2015 15:15

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.57	J D	2.5	0.40
75-45-6	Freon 22	86.47	0.36	J D	2.5	0.29
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.0	U	1.0	0.19
74-87-3	Chloromethane	50.49	0.57	J D	2.5	0.47
106-97-8	n-Butane	58.12	110	D	2.5	0.39
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.16
106-99-0	1,3-Butadiene	54.09	1.0	U	1.0	0.45
74-83-9	Bromomethane	94.94	1.0	U	1.0	0.28
75-00-3	Chloroethane	64.52	2.5	U	2.5	0.43
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	137.37	0.26	J D	1.0	0.19
76-13-1	Freon TF	187.38	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	96.94	1.0	U	1.0	0.18
67-64-1	Acetone	58.08	23	J D	25	4.3
67-63-0	Isopropyl alcohol	60.10	25	U	25	4.9
75-15-0	Carbon disulfide	76.14	2.5	U	2.5	0.22
107-05-1	3-Chloropropene	76.53	2.5	U	2.5	0.34
75-09-2	Methylene Chloride	84.93	2.5	U	2.5	0.90
75-65-0	tert-Butyl alcohol	74.12	25	U	25	4.3
1634-04-4	Methyl tert-butyl ether	88.15	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	U	1.0	0.22
110-54-3	n-Hexane	86.17	20	D	1.0	0.27
75-34-3	1,1-Dichloroethane	98.96	1.0	U	1.0	0.13
78-93-3	Methyl Ethyl Ketone	72.11	2.7	D	2.5	0.26
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	U	1.0	0.18
540-59-0	1,2-Dichloroethene, Total	96.94	2.0	U	2.0	0.18
67-66-3	Chloroform	119.38	1.0	U	1.0	0.41
109-99-9	Tetrahydrofuran	72.11	25	U	25	7.0
71-55-6	1,1,1-Trichloroethane	133.41	1.0	U	1.0	0.23
110-82-7	Cyclohexane	84.16	3.5	D	1.0	0.20
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.16
540-84-1	2,2,4-Trimethylpentane	114.23	11	D	1.0	0.20
71-43-2	Benzene	78.11	6.6	D	1.0	0.21
107-06-2	1,2-Dichloroethane	98.96	1.0	U	1.0	0.21

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 DL | Lab Sample ID: 200-29972-4 DL

Matrix: Air | Lab File ID: 16024_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 40(mL) | Date Analyzed: 09/30/2015 15:15

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	3.8	D	1.0	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	100.12	2.5	U	2.5	0.20
78-87-5	1,2-Dichloropropane	112.99	1.0	U	1.0	0.14
123-91-1	1,4-Dioxane	88.11	25	U	25	2.8
75-27-4	Bromodichloromethane	163.83	1.0	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	U	1.0	0.12
108-10-1	methyl isobutyl ketone	100.16	2.4	J D	2.5	0.25
108-88-3	Toluene	92.14	30	D	1.0	0.47
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	U	1.0	0.17
79-00-5	1,1,2-Trichloroethane	133.41	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	165.83	0.16	J D	1.0	0.12
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.5	U	2.5	0.29
124-48-1	Dibromochloromethane	208.29	1.0	U	1.0	0.22
106-93-4	1,2-Dibromoethane	187.87	1.0	U	1.0	0.20
108-90-7	Chlorobenzene	112.56	1.0	U	1.0	0.25
100-41-4	Ethylbenzene	106.17	4.0	D	1.0	0.17
179601-23-1	m,p-Xylene	106.17	17	D	2.5	0.36
95-47-6	Xylene, o-	106.17	5.5	D	1.0	0.19
1330-20-7	Xylene (total)	106.17	23	D	3.5	0.19
100-42-5	Styrene	104.15	1.0	U	1.0	0.22
75-25-2	Bromoform	252.75	1.0	U	1.0	0.28
98-82-8	Cumene	120.19	0.67	J D	1.0	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	U	1.0	0.22
103-65-1	n-Propylbenzene	120.19	0.89	J D	1.0	0.22
622-96-8	4-Ethyltoluene	120.20	2.5	D	1.0	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	2.7	D	1.0	0.20
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.0	U	1.0	0.22
95-63-6	1,2,4-Trimethylbenzene	120.20	12	D	1.0	0.22
135-98-8	sec-Butylbenzene	134.22	1.0	U	1.0	0.22
99-87-6	4-Isopropyltoluene	134.22	1.3	D	1.0	0.19
541-73-1	1,3-Dichlorobenzene	147.00	1.0	U	1.0	0.28
106-46-7	1,4-Dichlorobenzene	147.00	1.0	U	1.0	0.29

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 DL Lab Sample ID: 200-29972-4 DL

Matrix: Air Lab File ID: 16024_006.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 40(mL) Date Analyzed: 09/30/2015 15:15

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*1.0*	*U*	*1.0*	*0.27*
104-51-8	*n-Butylbenzene*	*134.22*	*1.5*	*D*	*1.0*	*0.24*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*1.0*	*U*	*1.0*	*0.28*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*2.5*	*U*	*2.5*	*0.34*
87-68-3	*Hexachlorobutadiene*	*260.76*	*1.0*	*U*	*1.0*	*0.41*
91-20-3	*Naphthalene*	*128.17*	*15*	*D*	*2.5*	*0.29*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 DL | Lab Sample ID: 200-29972-4 DL

Matrix: Air | Lab File ID: 16024_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 40(mL) | Date Analyzed: 09/30/2015 15:15

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.8	J D	12	2.0
75-45-6	Freon 22	86.47	1.3	J D	8.8	1.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	7.0	U	7.0	1.3
74-87-3	Chloromethane	50.49	1.2	J D	5.2	0.96
106-97-8	n-Butane	58.12	260	D	5.9	0.93
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.41
106-99-0	1,3-Butadiene	54.09	2.2	U	2.2	0.98
74-83-9	Bromomethane	94.94	3.9	U	3.9	1.1
75-00-3	Chloroethane	64.52	6.6	U	6.6	1.1
593-60-2	Bromoethene(Vinyl Bromide)	106.96	4.4	U	4.4	0.96
75-69-4	Trichlorofluoromethane	137.37	1.5	J D	5.6	1.1
76-13-1	Freon TF	187.38	7.7	U	7.7	2.9
75-35-4	1,1-Dichloroethene	96.94	4.0	U	4.0	0.71
67-64-1	Acetone	58.08	53	J D	59	10
67-63-0	Isopropyl alcohol	60.10	61	U	61	12
75-15-0	Carbon disulfide	76.14	7.8	U	7.8	0.67
107-05-1	3-Chloropropene	76.53	7.8	U	7.8	1.1
75-09-2	Methylene Chloride	84.93	8.7	U	8.7	3.1
75-65-0	tert-Butyl alcohol	74.12	76	U	76	13
1634-04-4	Methyl tert-butyl ether	88.15	3.6	U	3.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	4.0	U	4.0	0.85
110-54-3	n-Hexane	86.17	69	D	3.5	0.95
75-34-3	1,1-Dichloroethane	98.96	4.0	U	4.0	0.51
78-93-3	Methyl Ethyl Ketone	72.11	8.0	D	7.4	0.77
156-59-2	cis-1,2-Dichloroethene	96.94	4.0	U	4.0	0.69
540-59-0	1,2-Dichloroethene, Total	96.94	7.9	U	7.9	0.69
67-66-3	Chloroform	119.38	4.9	U	4.9	2.0
109-99-9	Tetrahydrofuran	72.11	74	U	74	21
71-55-6	1,1,1-Trichloroethane	133.41	5.5	U	5.5	1.3
110-82-7	Cyclohexane	84.16	12	D	3.4	0.67
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	1.0
540-84-1	2,2,4-Trimethylpentane	114.23	53	D	4.7	0.91
71-43-2	Benzene	78.11	21	D	3.2	0.67
107-06-2	1,2-Dichloroethane	98.96	4.0	U	4.0	0.83

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 DL | Lab Sample ID: 200-29972-4 DL

Matrix: Air | Lab File ID: 16024_006.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:17

Sample wt/vol: 40(mL) | Date Analyzed: 09/30/2015 15:15

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	16	D	4.1	0.82
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.0
80-62-6	Methyl methacrylate	100.12	10	U	10	0.82
78-87-5	1,2-Dichloropropane	112.99	4.6	U	4.6	0.62
123-91-1	1,4-Dioxane	88.11	90	U	90	10
75-27-4	Bromodichloromethane	163.83	6.7	U	6.7	1.0
10061-01-5	cis-1,3-Dichloropropene	110.97	4.5	U	4.5	0.52
108-10-1	methyl isobutyl ketone	100.16	9.6	J D	10	1.0
108-88-3	Toluene	92.14	110	D	3.8	1.8
10061-02-6	trans-1,3-Dichloropropene	110.97	4.5	U	4.5	0.77
79-00-5	1,1,2-Trichloroethane	133.41	5.5	U	5.5	1.1
127-18-4	Tetrachloroethene	165.83	1.1	J D	6.8	0.78
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	10	U	10	1.2
124-48-1	Dibromochloromethane	208.29	8.5	U	8.5	1.9
106-93-4	1,2-Dibromoethane	187.87	7.7	U	7.7	1.5
108-90-7	Chlorobenzene	112.56	4.6	U	4.6	1.1
100-41-4	Ethylbenzene	106.17	17	D	4.3	0.72
179601-23-1	m,p-Xylene	106.17	72	D	11	1.5
95-47-6	Xylene, o-	106.17	24	D	4.3	0.80
1330-20-7	Xylene (total)	106.17	98	D	15	0.80
100-42-5	Styrene	104.15	4.3	U	4.3	0.92
75-25-2	Bromoform	252.75	10	U	10	2.9
98-82-8	Cumene	120.19	3.3	J D	4.9	0.74
79-34-5	1,1,2,2-Tetrachloroethane	167.85	6.9	U	6.9	1.5
103-65-1	n-Propylbenzene	120.19	4.4	J D	4.9	1.1
622-96-8	4-Ethyltoluene	120.20	12	D	4.9	1.1
108-67-8	1,3,5-Trimethylbenzene	120.20	13	D	4.9	0.96
95-49-8	2-Chlorotoluene	126.59	5.2	U	5.2	0.85
98-06-6	tert-Butylbenzene	134.22	5.5	U	5.5	1.2
95-63-6	1,2,4-Trimethylbenzene	120.20	57	D	4.9	1.1
135-98-8	sec-Butylbenzene	134.22	5.5	U	5.5	1.2
99-87-6	4-Isopropyltoluene	134.22	7.3	D	5.5	1.0
541-73-1	1,3-Dichlorobenzene	147.00	6.0	U	6.0	1.7
106-46-7	1,4-Dichlorobenzene	147.00	6.0	U	6.0	1.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA02-092315 DL Lab Sample ID: 200-29972-4 DL

Matrix: Air Lab File ID: 16024_006.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:17

Sample wt/vol: 40(mL) Date Analyzed: 09/30/2015 15:15

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*5.2*	*U*	*5.2*	*1.4*
104-51-8	*n-Butylbenzene*	*134.22*	*8.3*	*D*	*5.5*	*1.3*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*6.0*	*U*	*6.0*	*1.7*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*19*	*U*	*19*	*2.5*
87-68-3	*Hexachlorobutadiene*	*260.76*	*11*	*U*	*11*	*4.4*
91-20-3	*Naphthalene*	*128.17*	*79*	*D*	*13*	*1.5*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d
Lims ID: 200-29972-A-4 Lab Sample ID: 200-29972-4
Client ID: FR-IA02-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 15:15:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 5.0000
Sample Info: 200-0016024-006
Misc. Info.: 29972-04
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:01:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.431	-0.011	98	5511	0.1143	
3 Chlorodifluoromethane	51	4.490	4.501	-0.011	93	1387	0.0714	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50	4.998	5.009	-0.011	29	1076	0.1143	M
6 Butane	43	5.282	5.292	-0.010	95	297085	21.7	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64		6.678				ND	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.293	7.299	-0.006	19	2896	0.0529	M
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43	8.946	8.941	0.005	98	76492	4.50	
23 Carbon disulfide	76	9.165	9.171	-0.006	37	1051	0.0278	M
24 Isopropyl alcohol	45	9.224	9.219	0.005	94	7617	0.5623	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.941	9.931	0.010	63	1358	0.1090	
28 2-Methyl-2-propanol	59		10.113				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57	10.851	10.856	-0.005	90	64663	3.91	
34 1,1-Dichloroethane	63		11.429				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.664	12.654	0.010	96	4262	0.5426	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.103	13.114	-0.011	70	151818	10.0	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84	13.515	13.510	0.005	85	14830	0.7077	
44 1,1,1-Trichloroethane	97		13.531				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117		13.782				ND	
46 Isooctane	57	14.178	14.184	-0.006	97	129342	2.28	
47 Benzene	78	14.253	14.253	0.000	93	64374	1.31	
48 1,2-Dichloroethane	62		14.419				ND	
49 n-Heptane	43	14.537	14.531	0.006	79	13484	0.7625	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	723670	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.190				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.623	17.624	-0.001	91	12122	0.4709	
65 Toluene	92	17.955	17.955	0.000	93	252452	6.07	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.865				ND	
68 Tetrachloroethene	166	18.998	18.988	0.010	83	1616	0.0323	M
69 2-Hexanone	43		19.261				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		4.41	
* 74 Chlorobenzene-d5	117	20.731	20.732	-0.001	83	718598	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.897	20.898	-0.001	97	74554	0.8020	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	123987	3.30	
79 o-Xylene	106	21.801	21.796	0.005	99	41078	1.11	
80 Styrene	104		21.839				ND	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.347	0.000	95	15262	0.1346	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	24197	0.1772	
88 4-Ethyltoluene	105	23.139	23.139	0.000	99	61495	0.4903	
89 2-Chlorotoluene	91		23.177				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	94	58409	0.5388	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	250320	2.33	
94 sec-Butylbenzene	105		24.059				ND	M
95 4-Isopropyltoluene	119	24.268	24.262	0.006	97	35403	0.2670	
96 1,3-Dichlorobenzene	146	24.332	24.332	0.000	84	990	0.0111	
97 1,4-Dichlorobenzene	146		24.482				ND	
98 Benzyl chloride	91		24.707				ND	
100 n-Butylbenzene	91	24.915	24.921	-0.005	96	34327	0.3030	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	51	1152	0.0134	
103 1,2,4-Trichlorobenzene	180	28.135	28.130	0.005	56	2819	0.0393	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.761	28.767	-0.006	99	409179	3.01	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

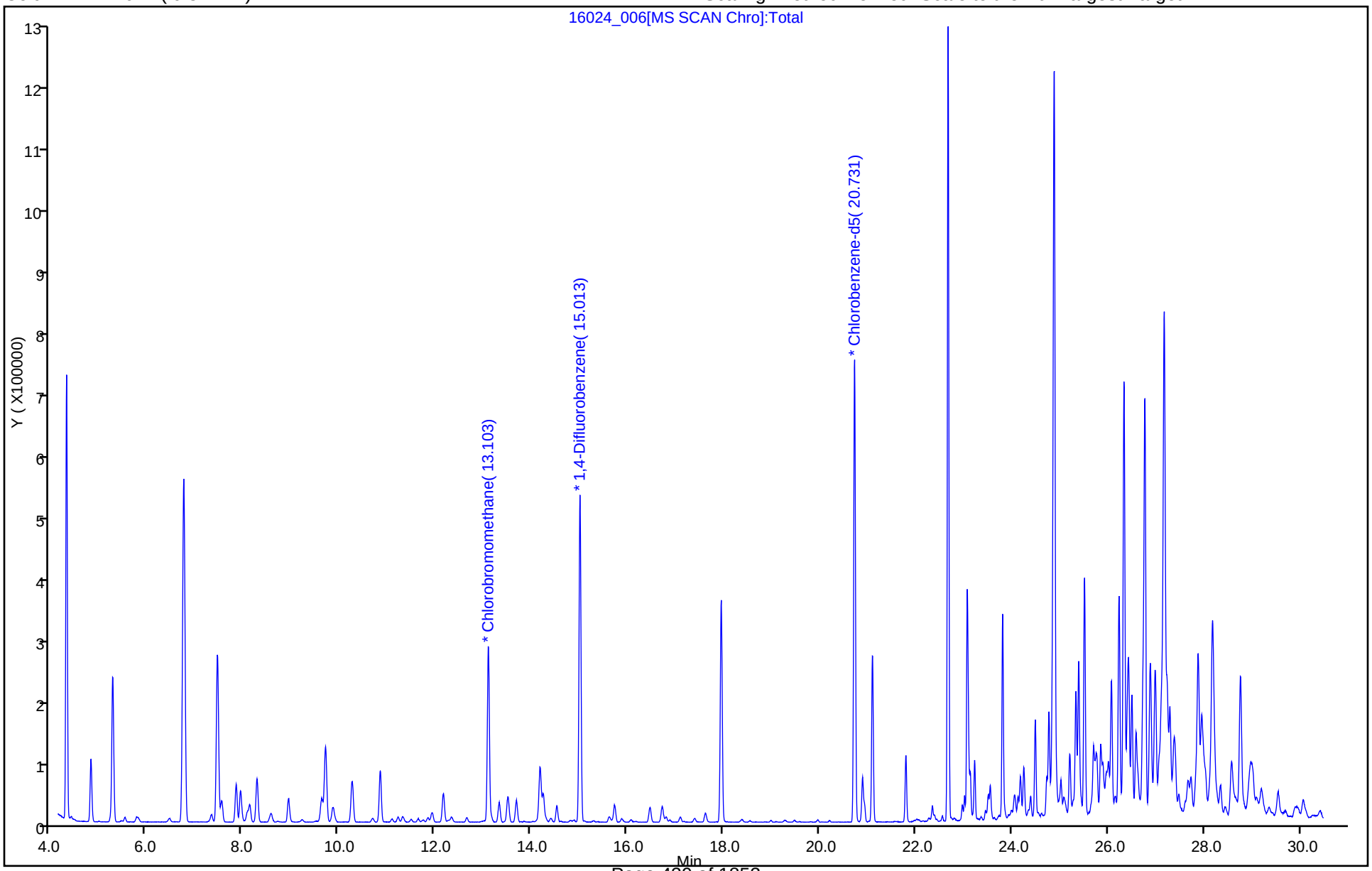
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4	Worklist Smp#:	6
Client ID:	FR-IA02-092315				
Purge Vol:	200.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



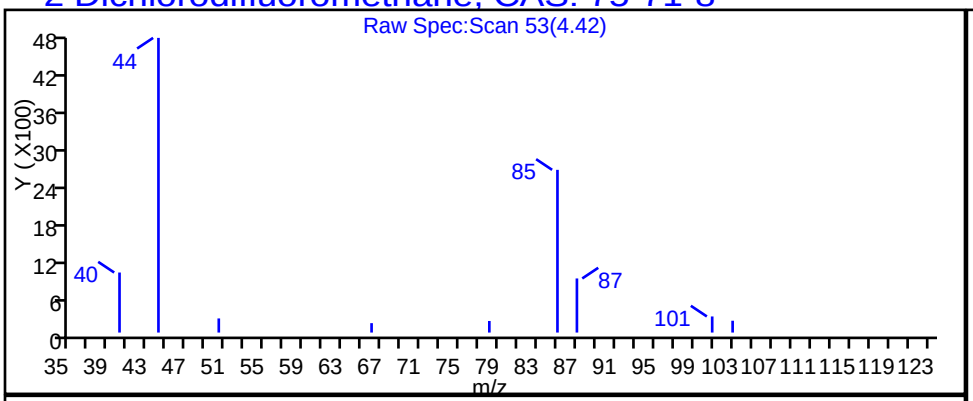
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

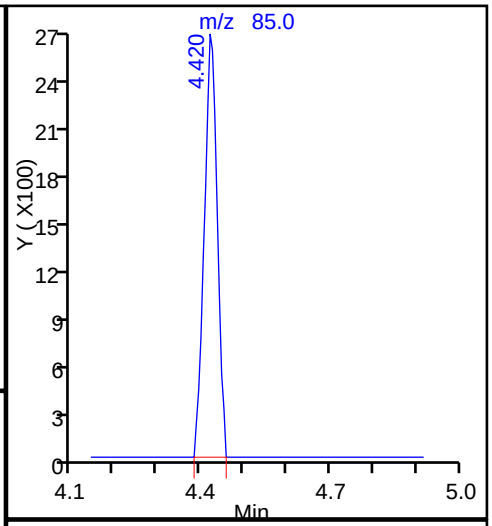
TestAmerica Burlington

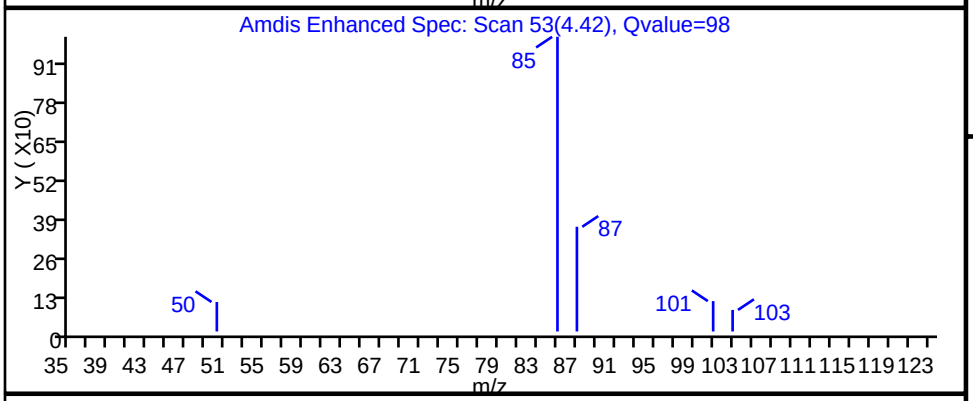
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

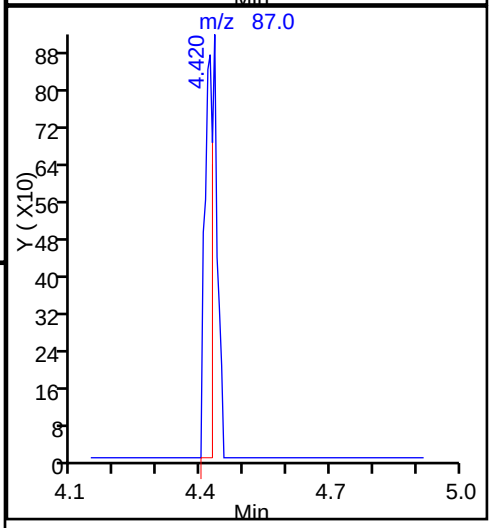
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

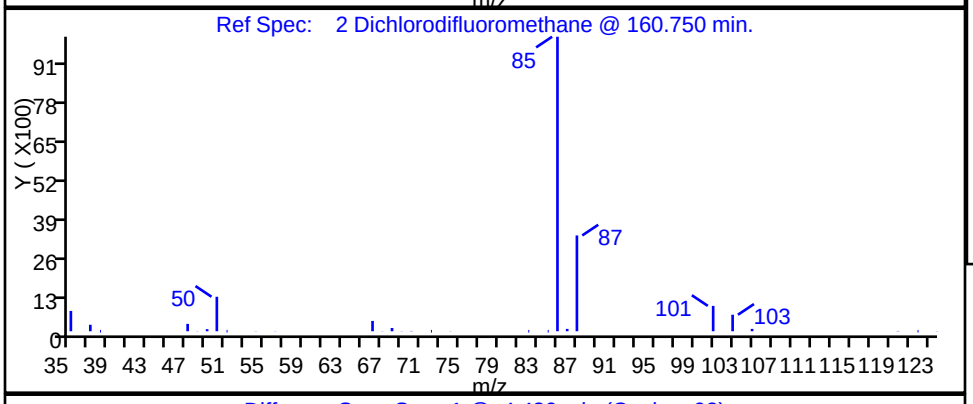
2 Dichlorodifluoromethane, CAS: 75-71-8

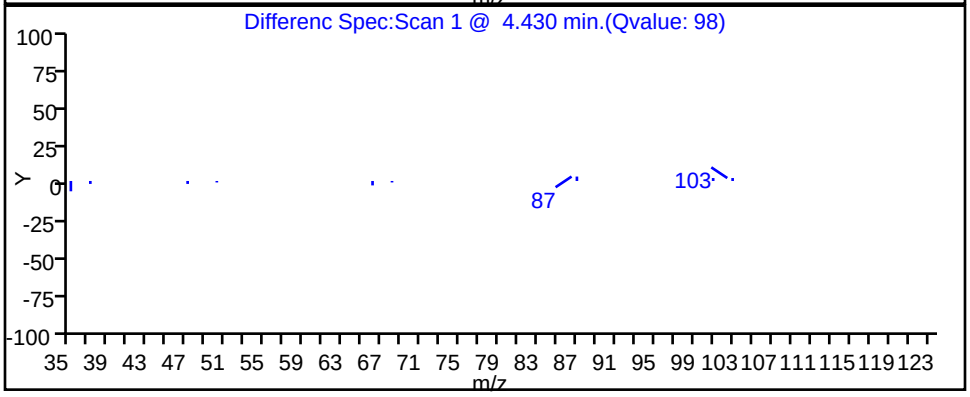












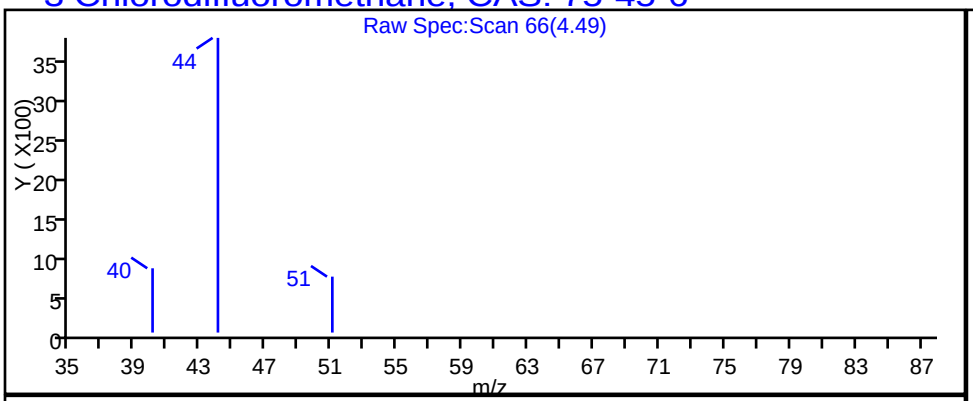
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

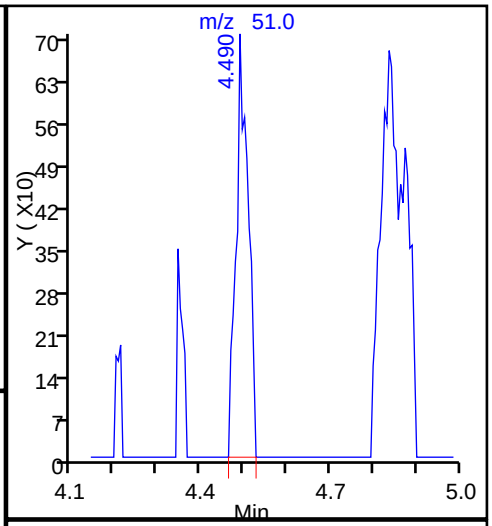
TestAmerica Burlington

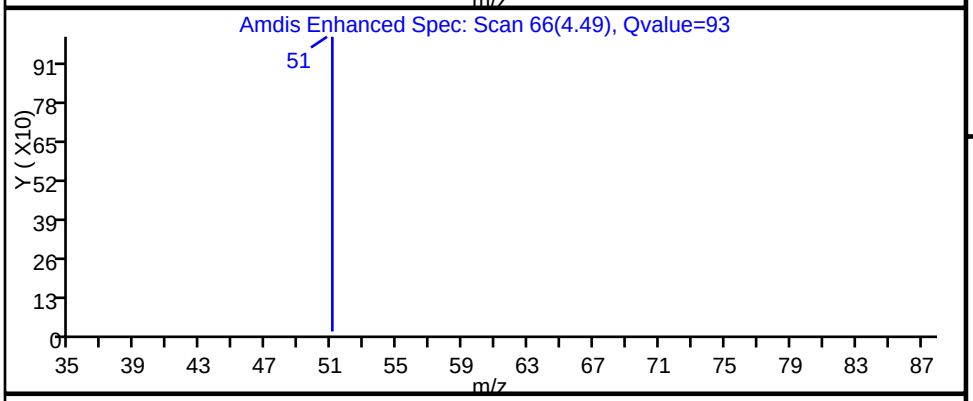
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

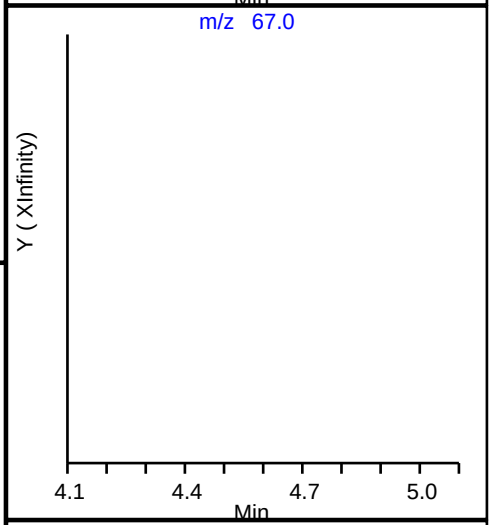
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

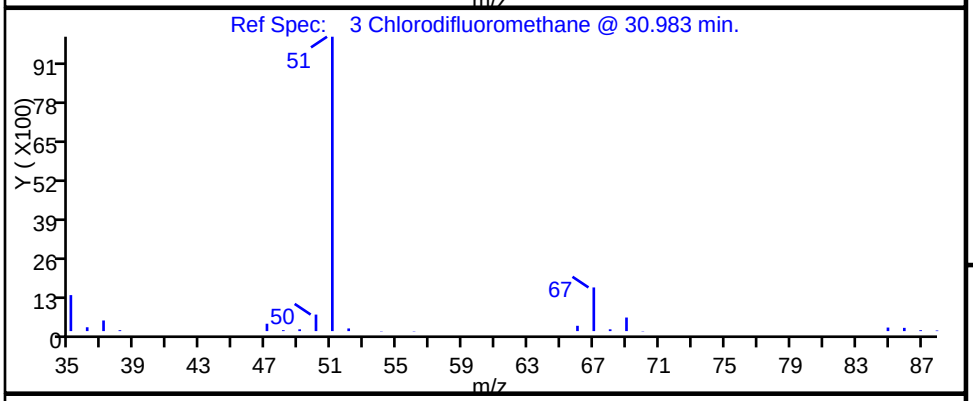
3 Chlorodifluoromethane, CAS: 75-45-6

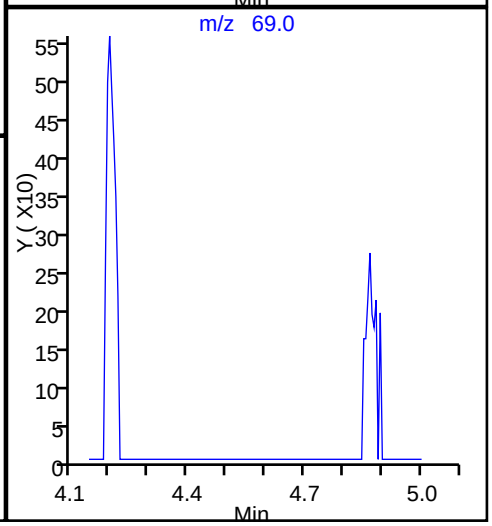


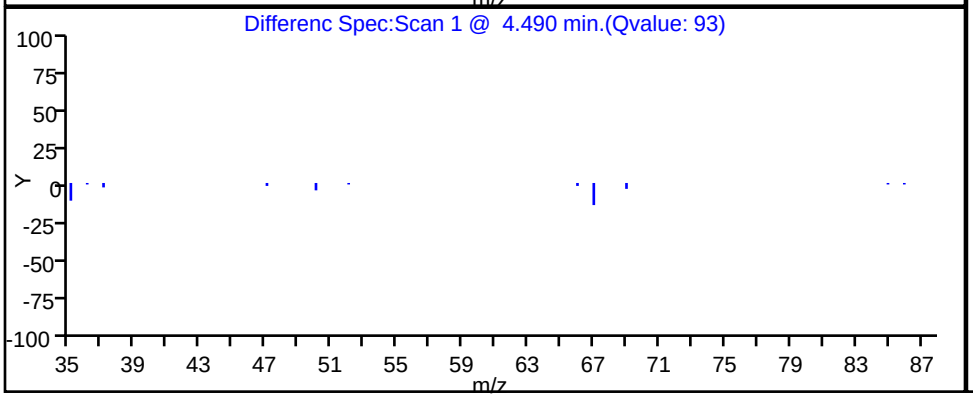












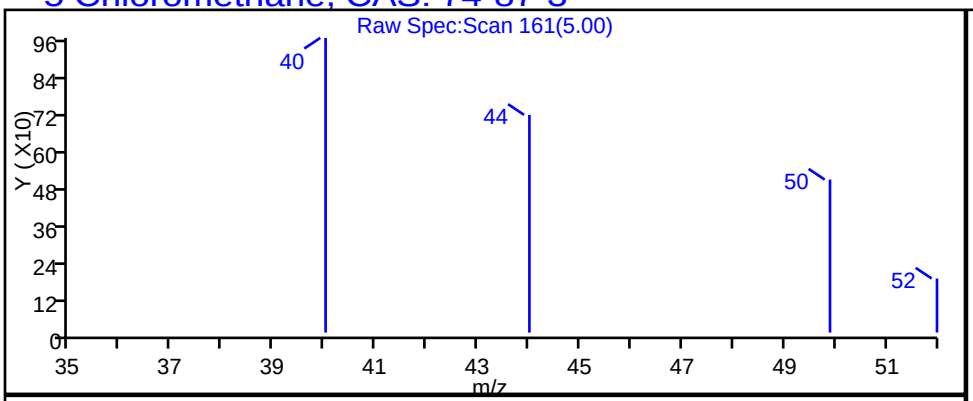
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

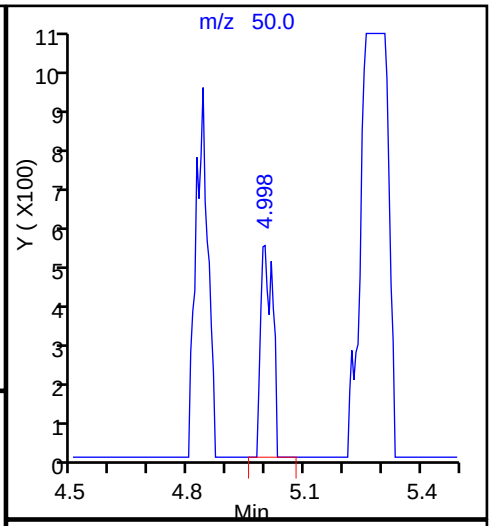
TestAmerica Burlington

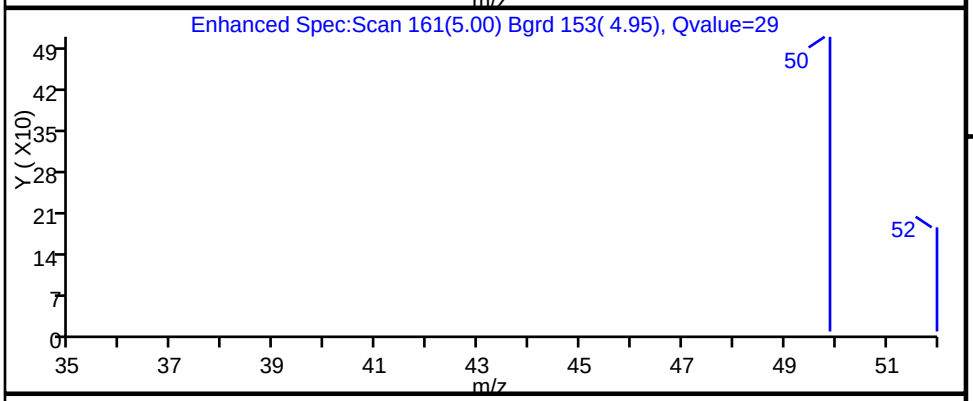
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

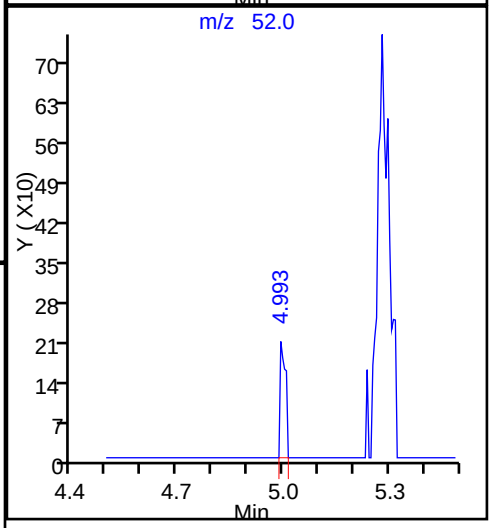
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

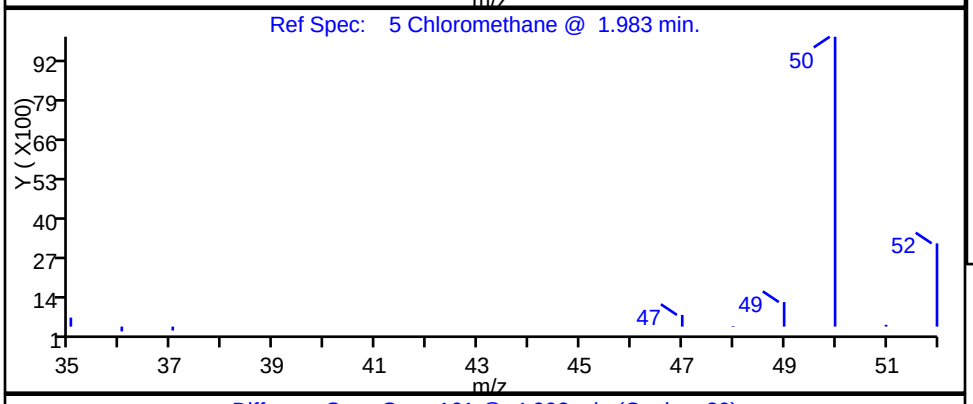
5 Chloromethane, CAS: 74-87-3

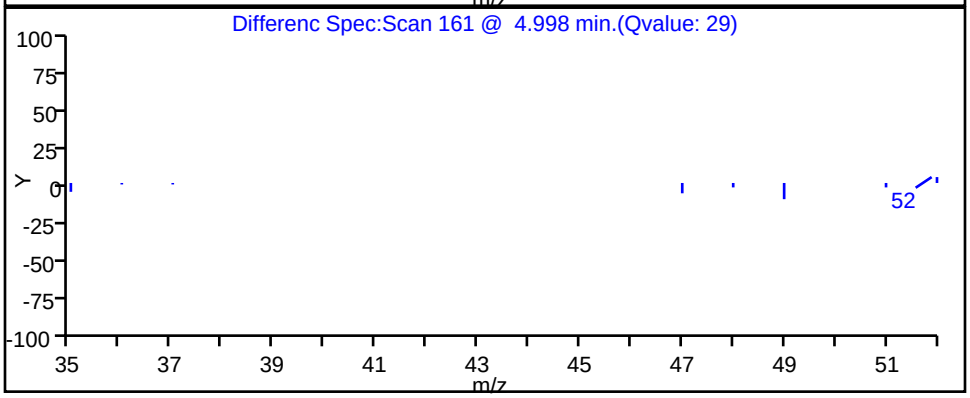












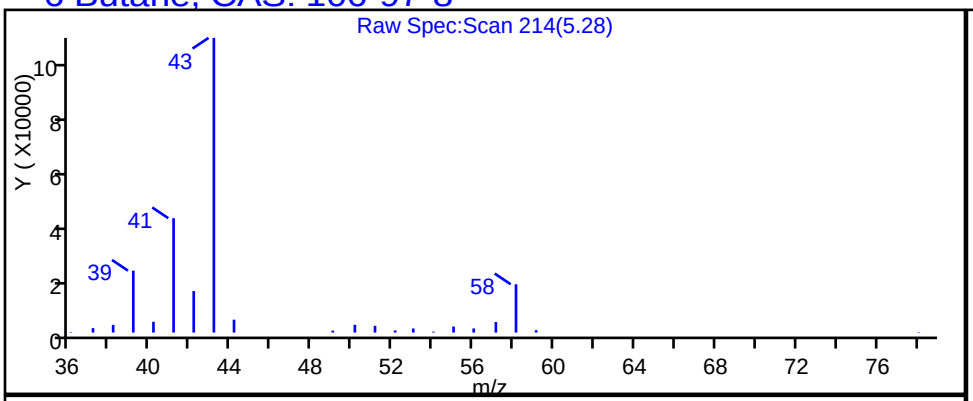
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

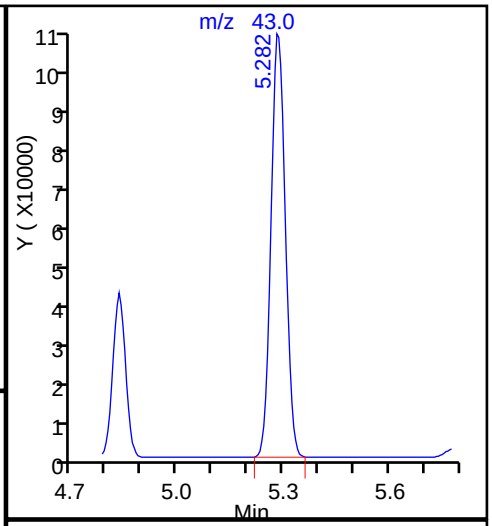
TestAmerica Burlington

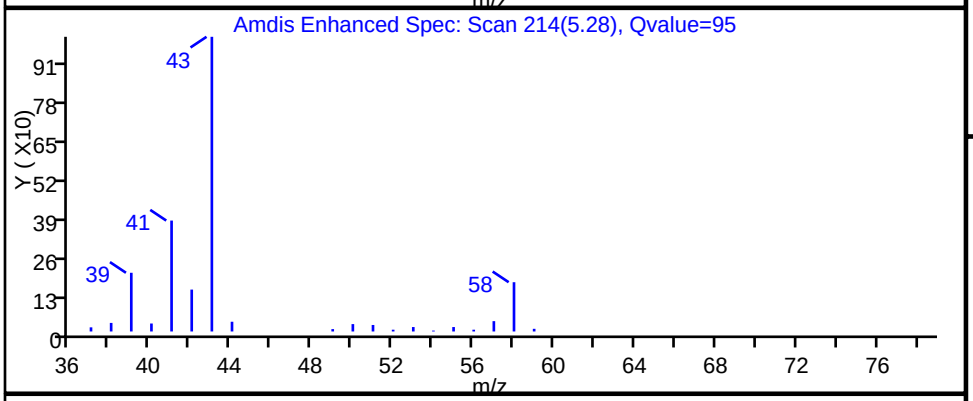
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

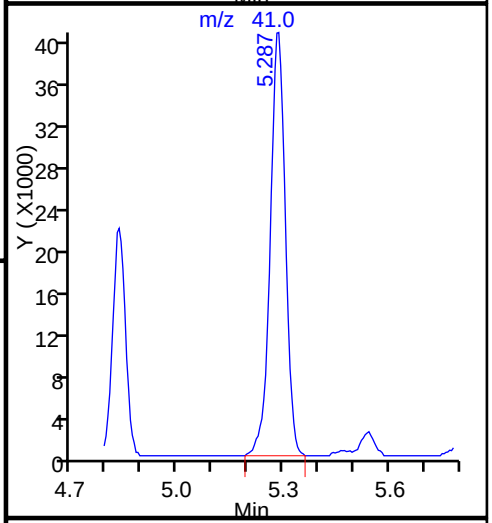
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

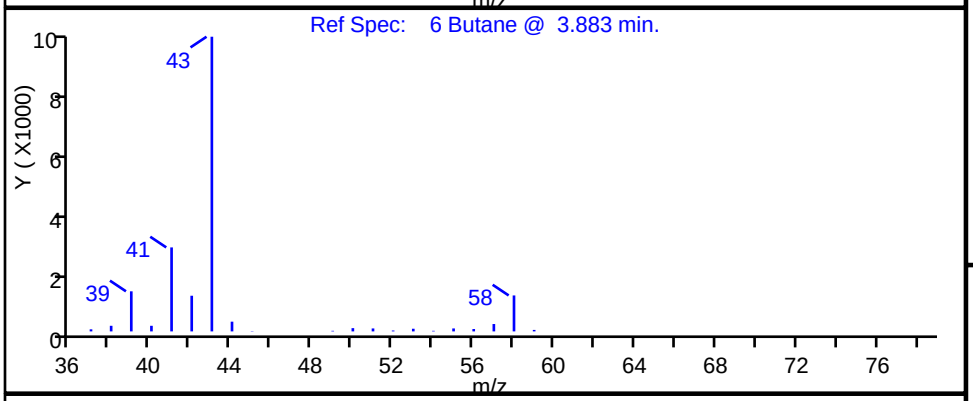
6 Butane, CAS: 106-97-8

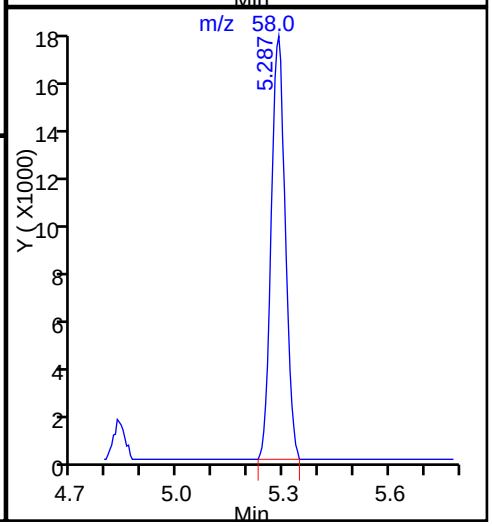


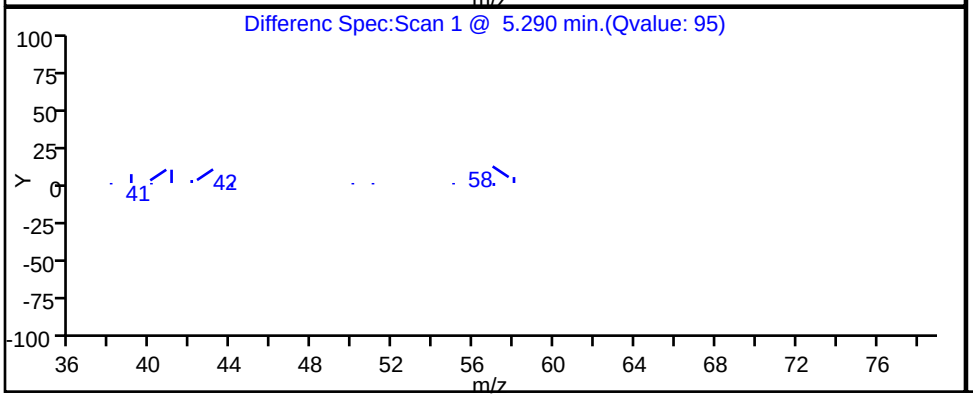












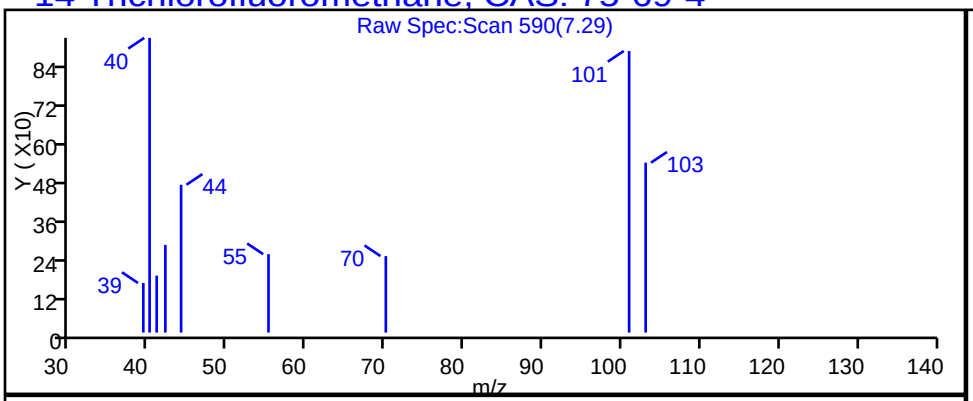
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

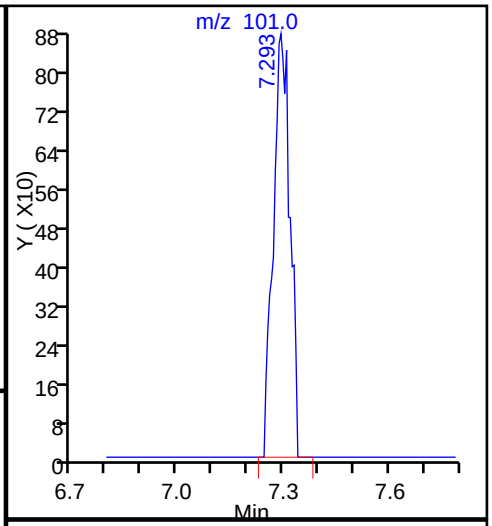
TestAmerica Burlington

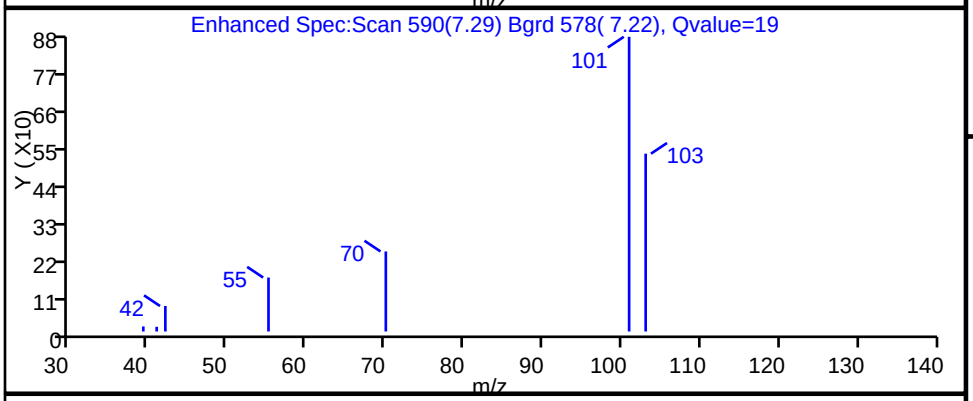
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

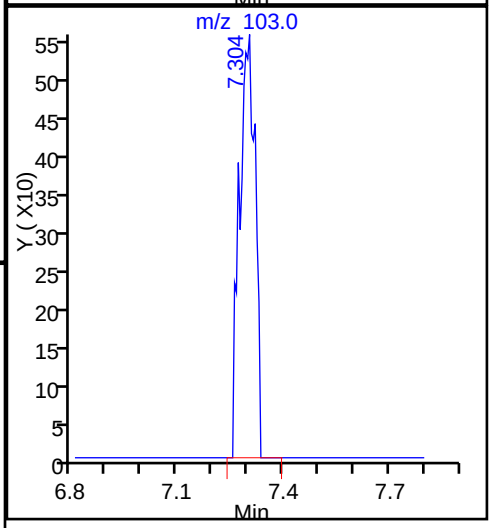
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

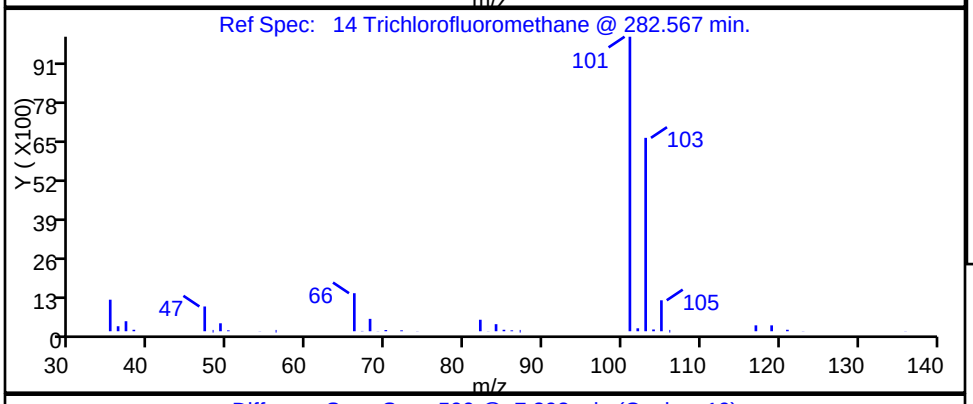
14 Trichlorofluoromethane, CAS: 75-69-4

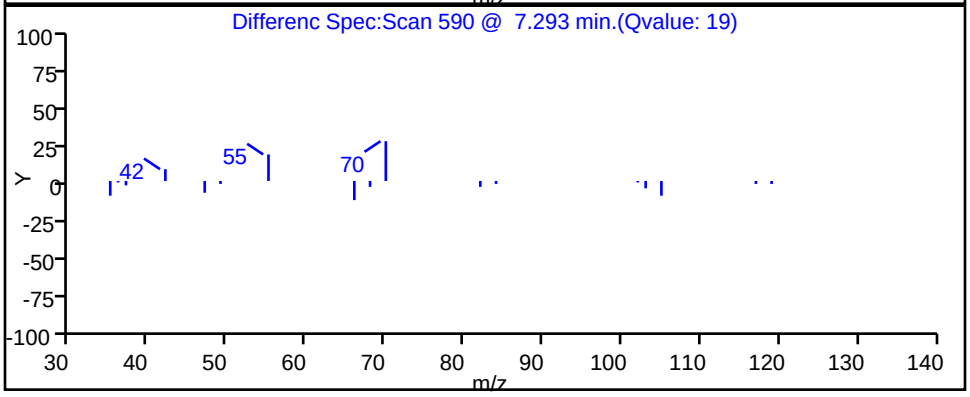












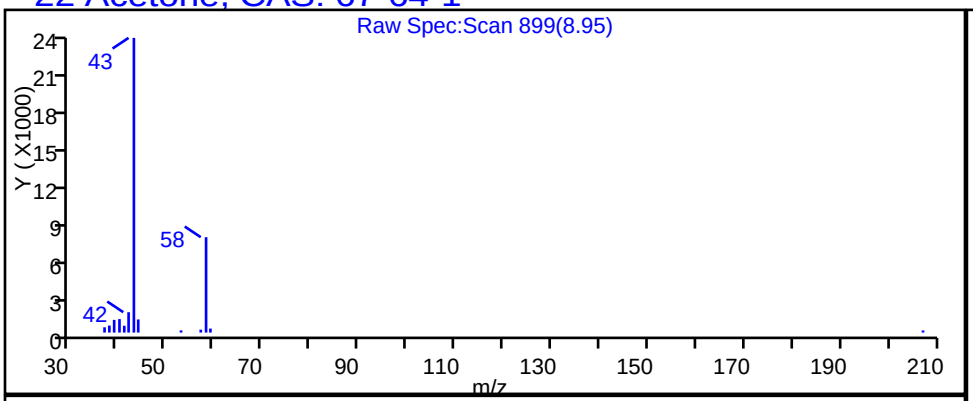
Report Date: 01-Oct-2015 12:53:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

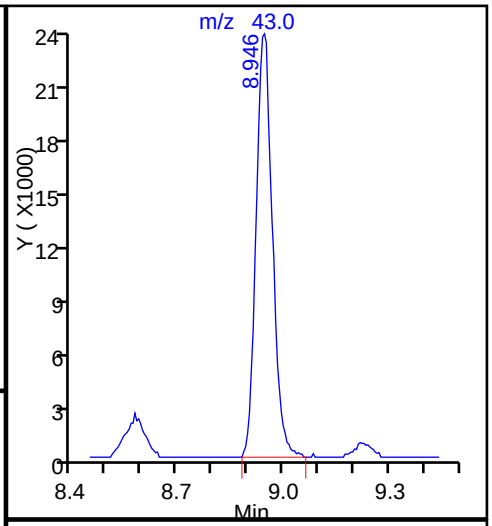
TestAmerica Burlington

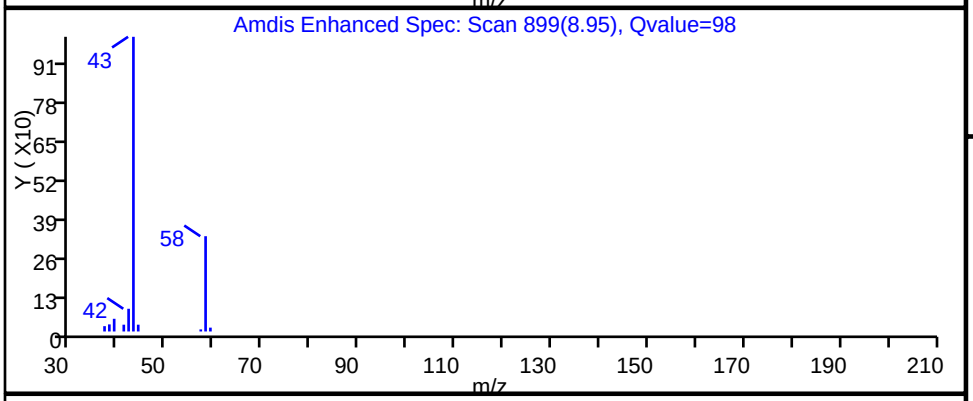
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

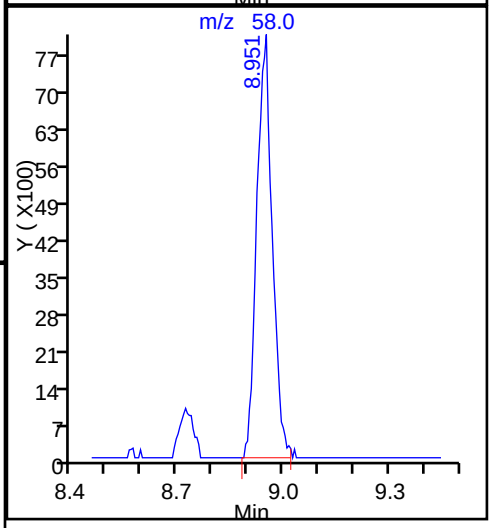
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

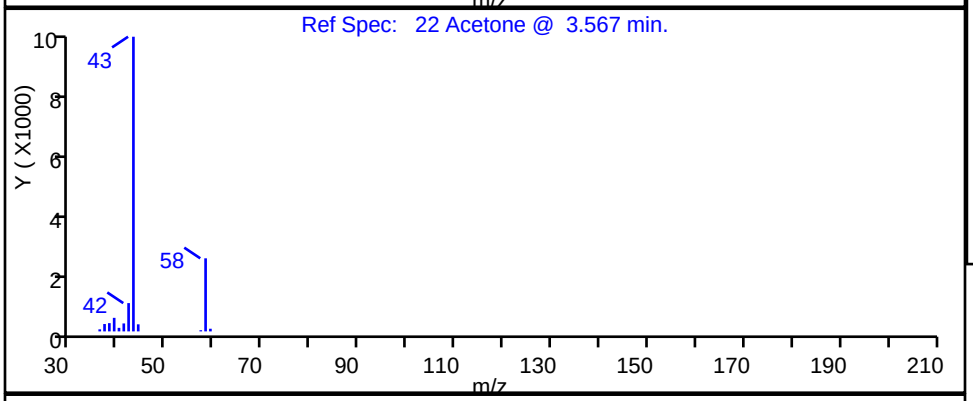
22 Acetone, CAS: 67-64-1

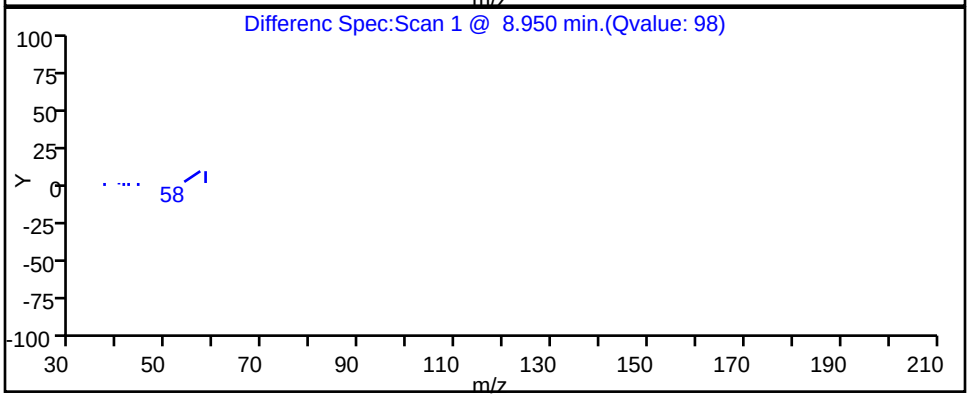










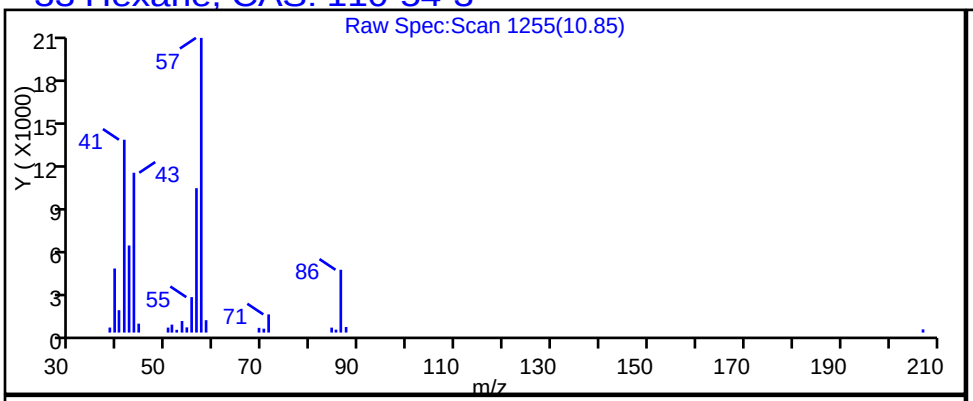


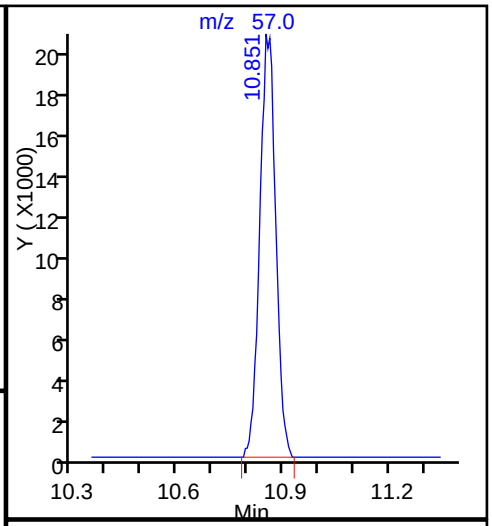
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

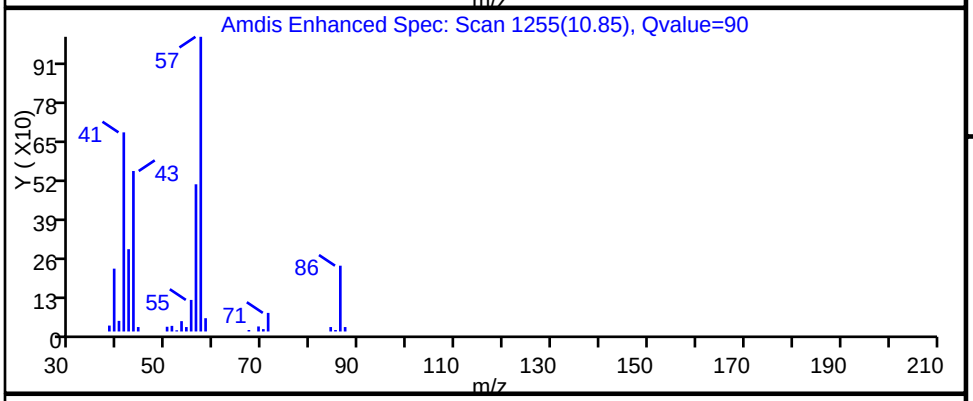
TestAmerica Burlington

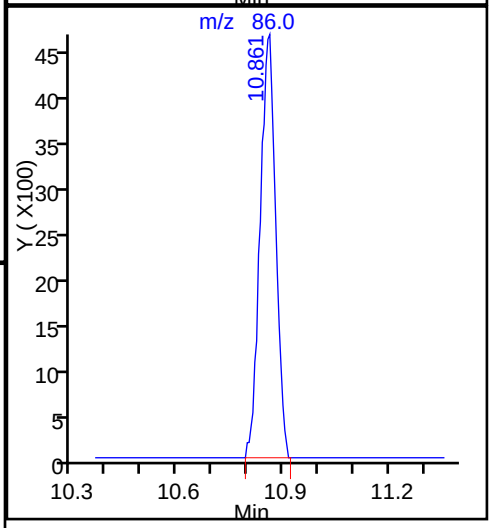
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

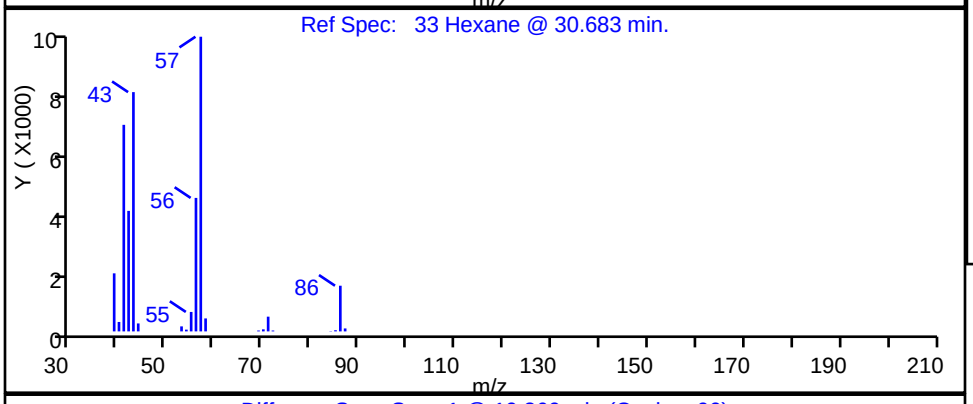
33 Hexane, CAS: 110-54-3

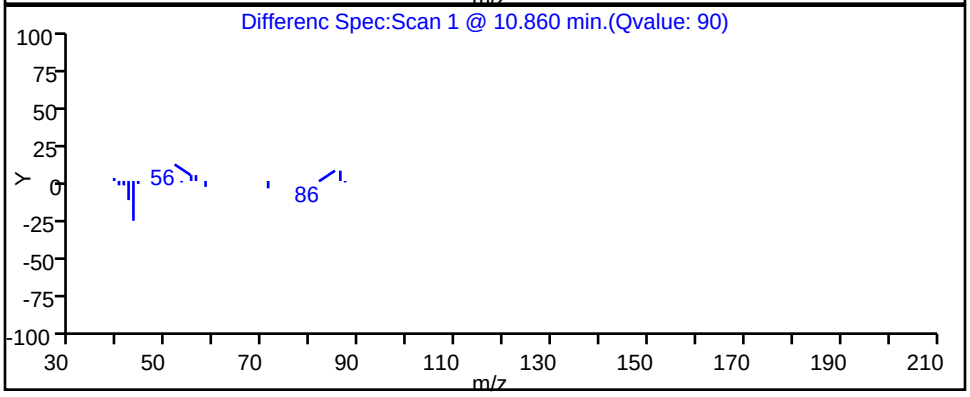












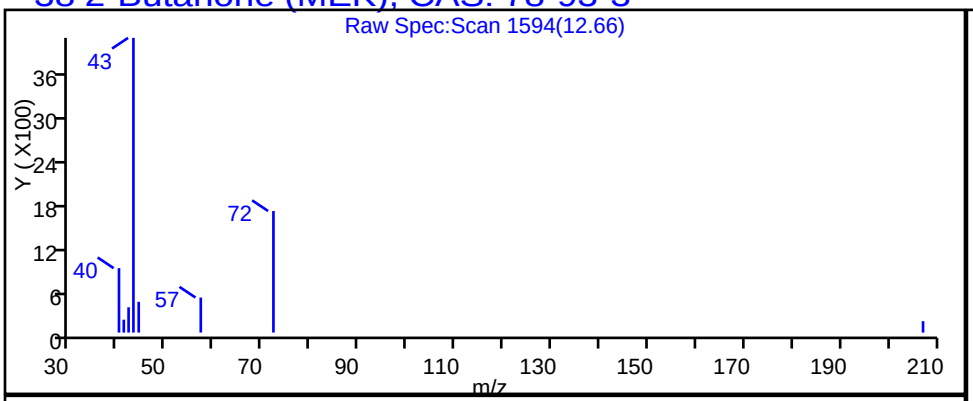
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

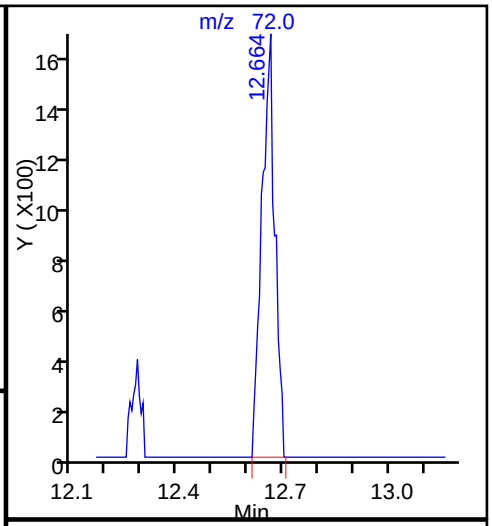
TestAmerica Burlington

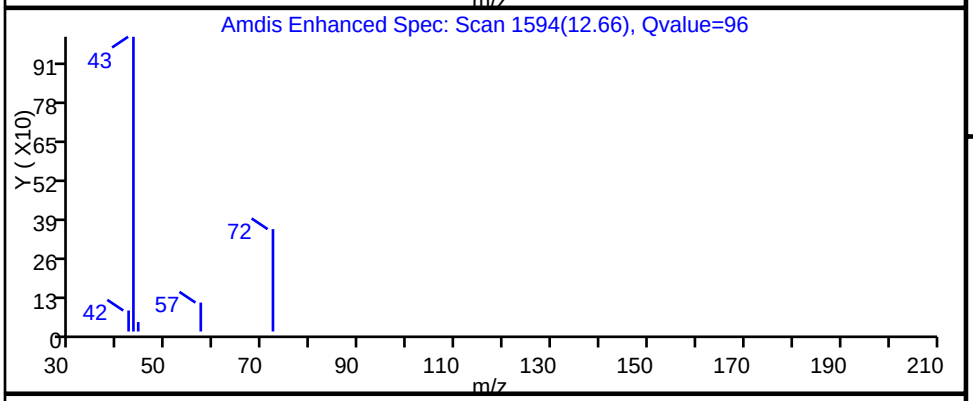
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

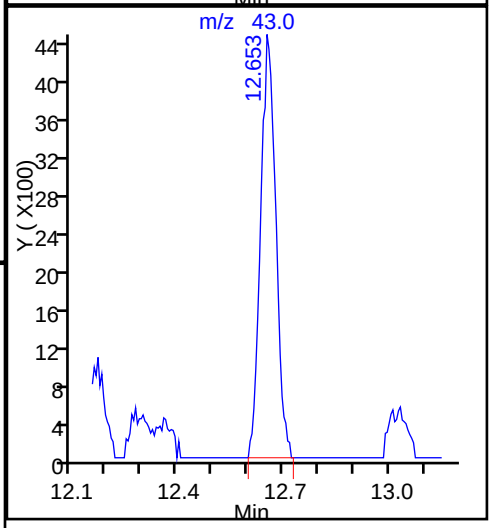
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

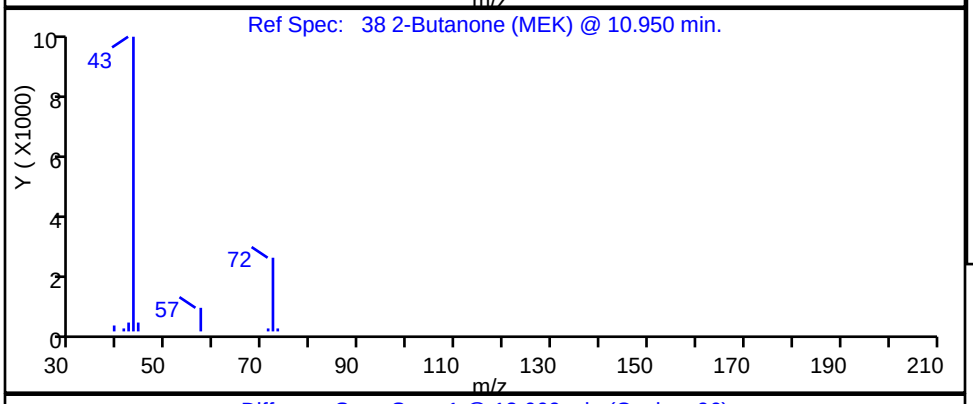
38 2-Butanone (MEK), CAS: 78-93-3

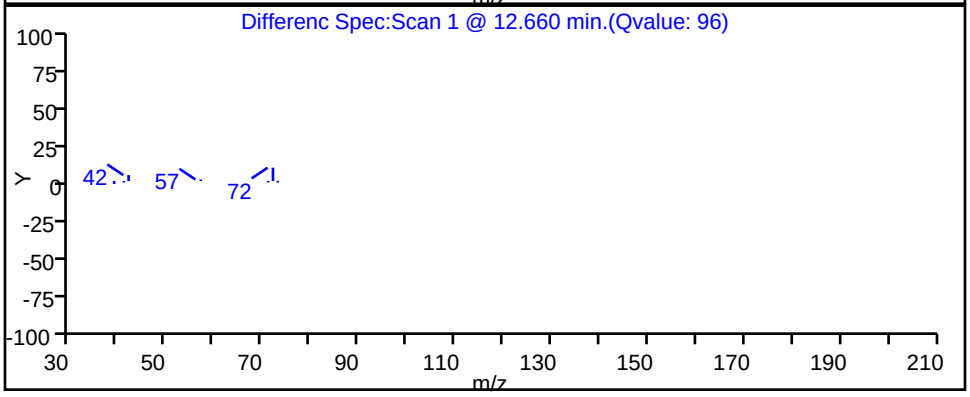












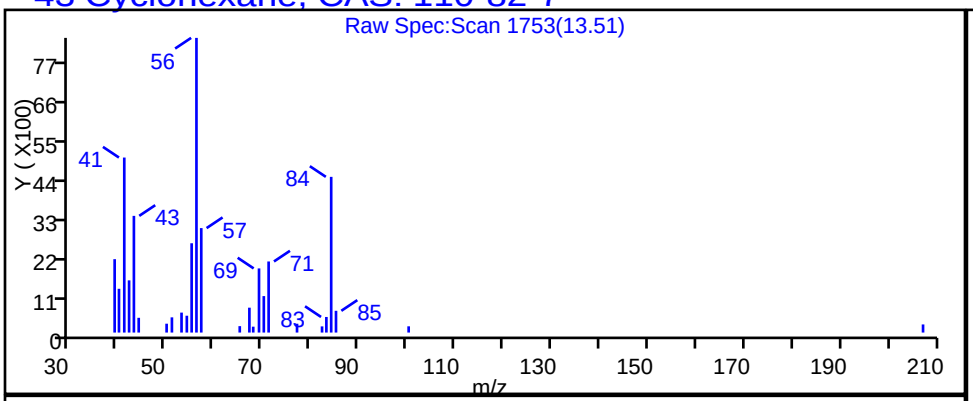
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

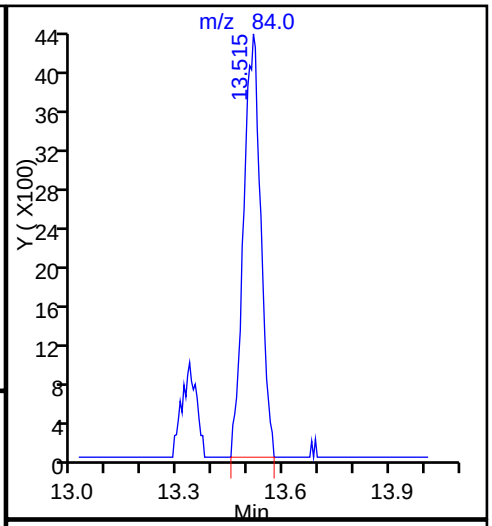
TestAmerica Burlington

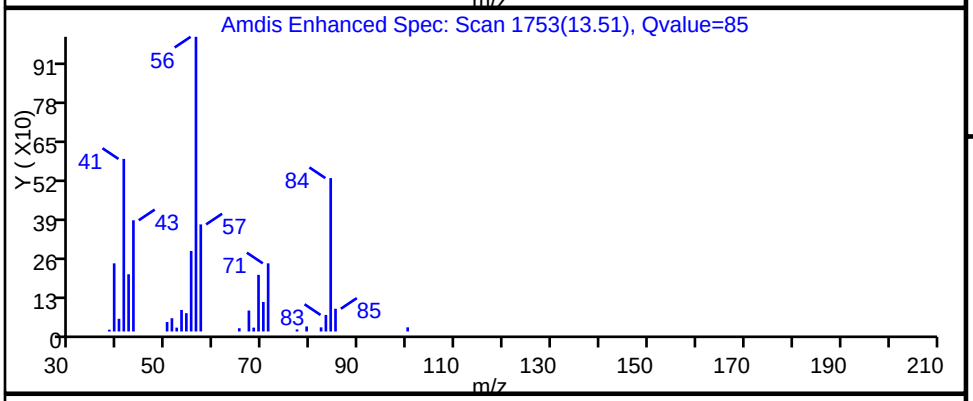
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

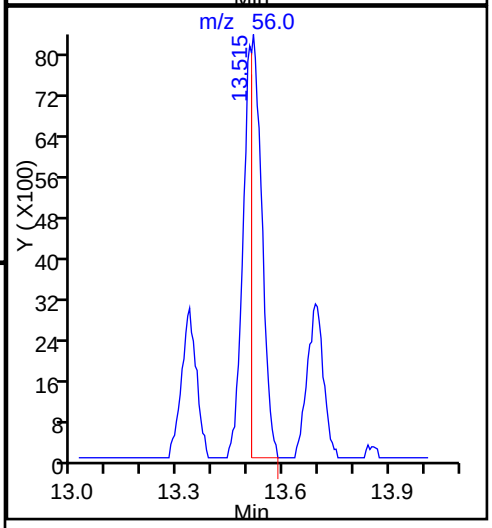
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

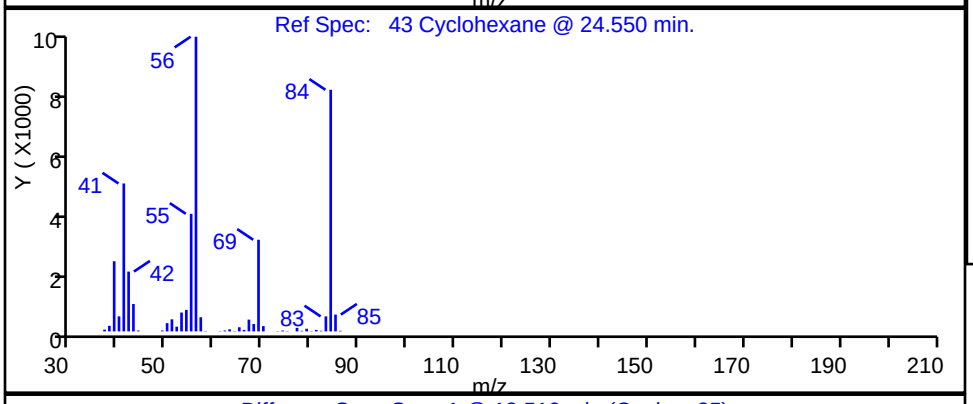
43 Cyclohexane, CAS: 110-82-7

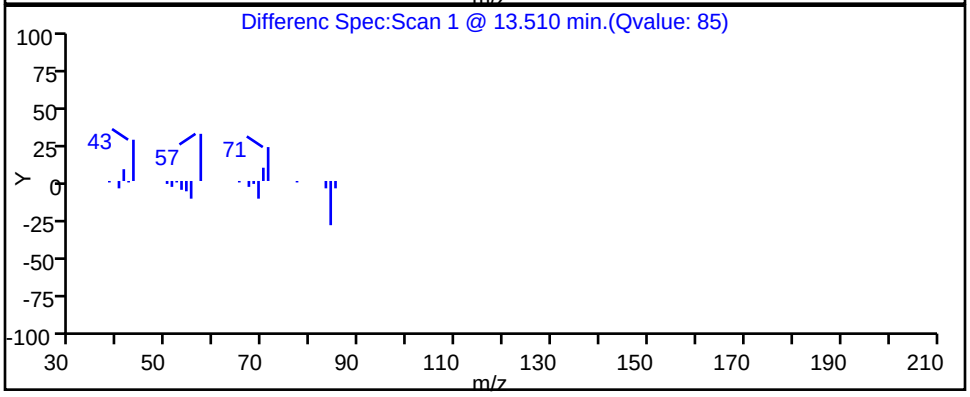












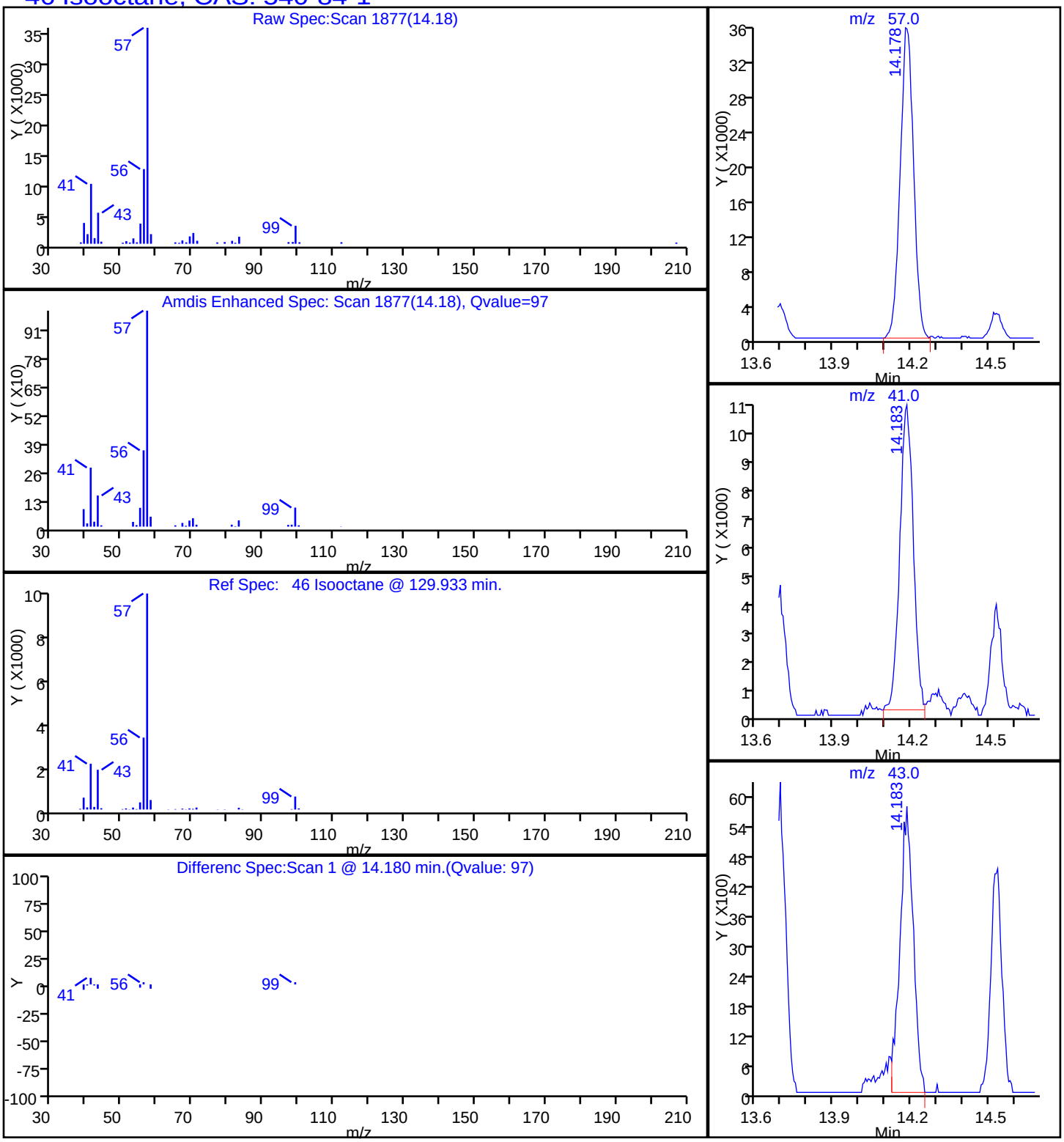
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1

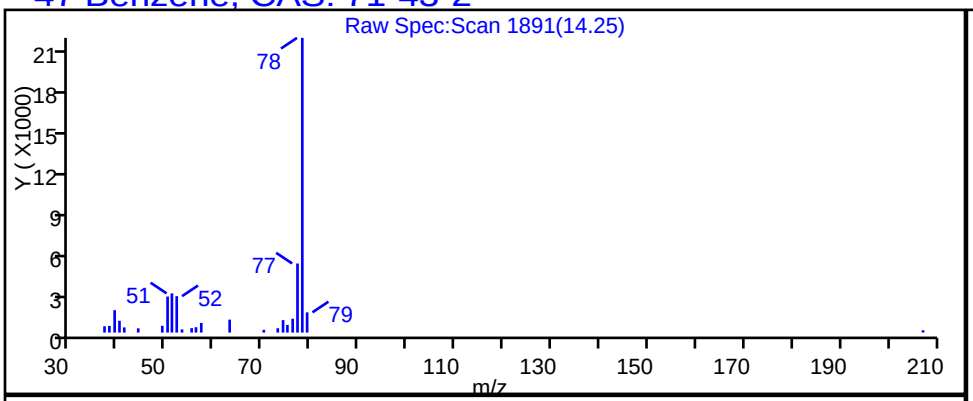


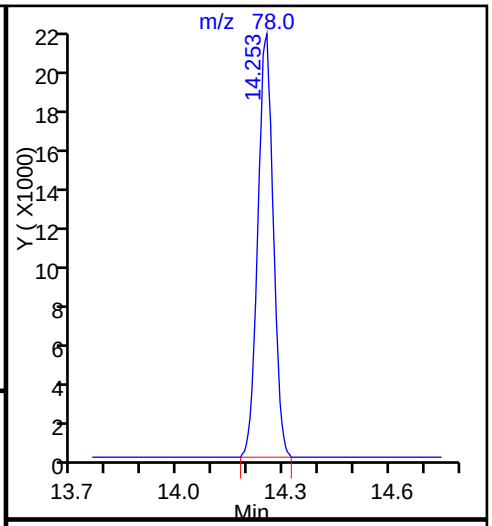
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

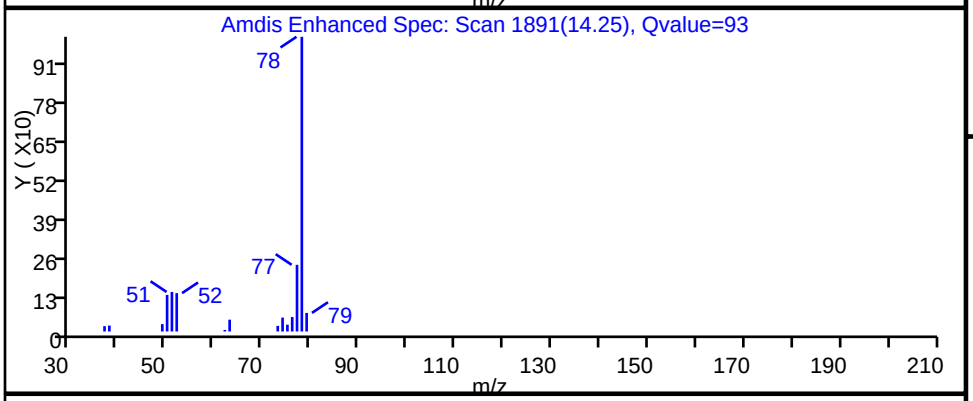
TestAmerica Burlington

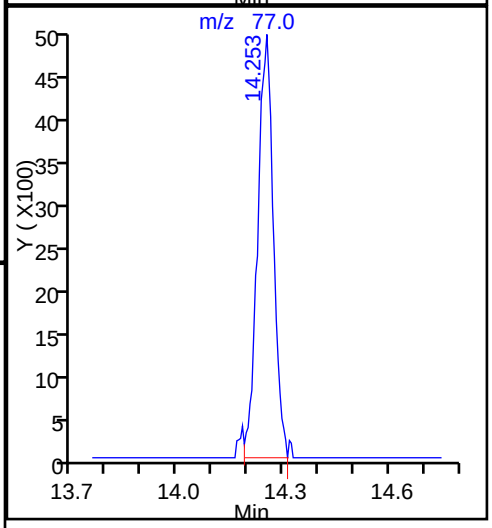
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

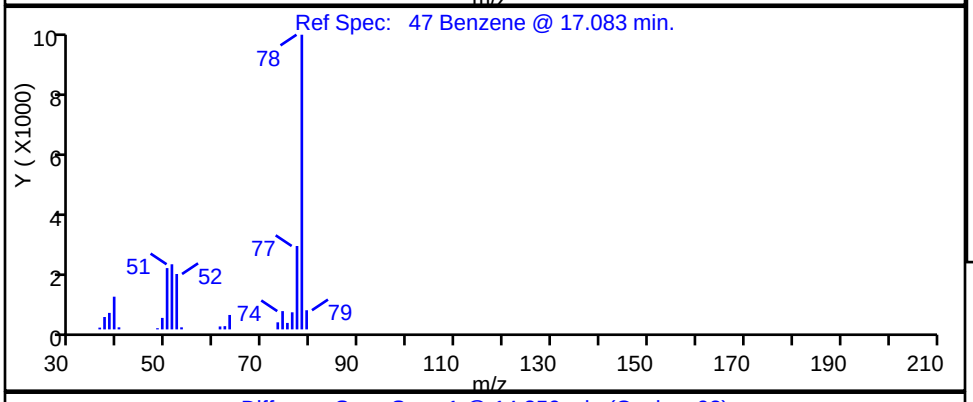
47 Benzene, CAS: 71-43-2

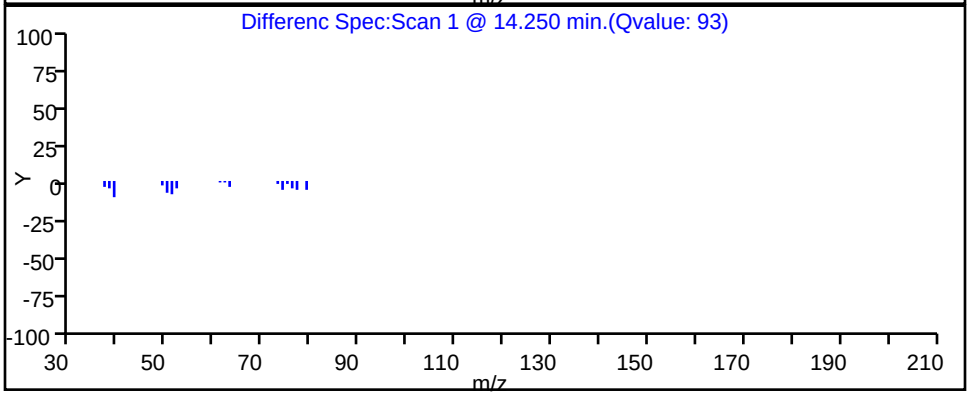












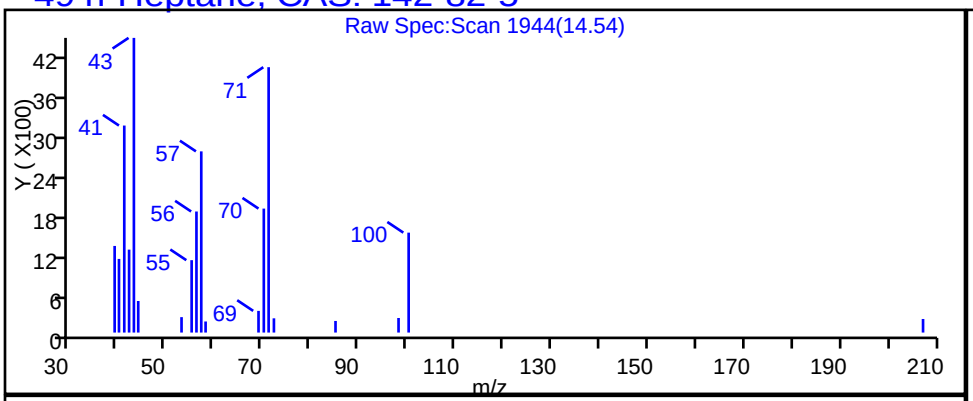
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

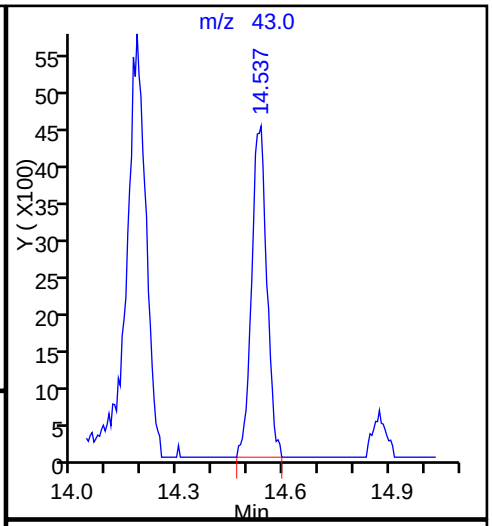
TestAmerica Burlington

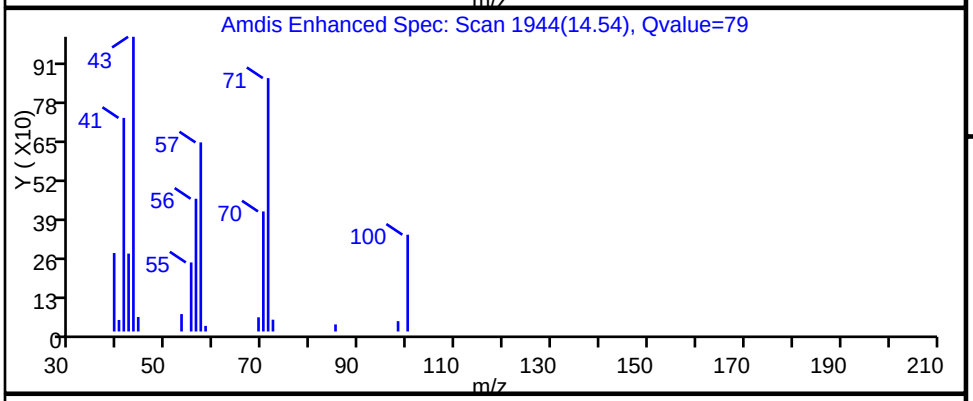
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

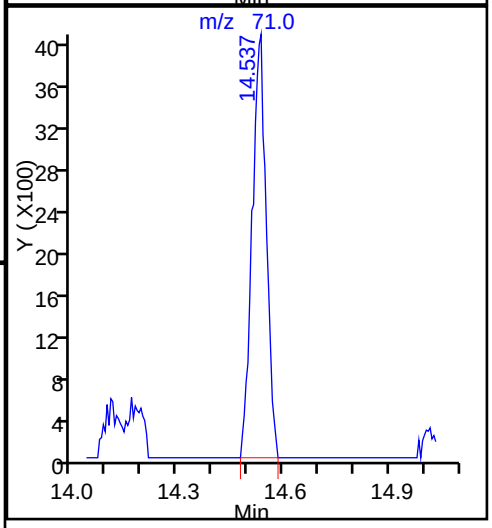
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

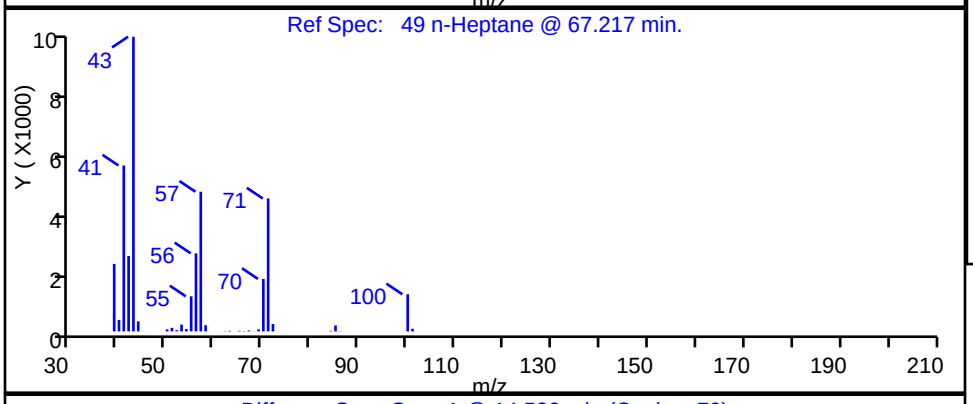
49 n-Heptane, CAS: 142-82-5

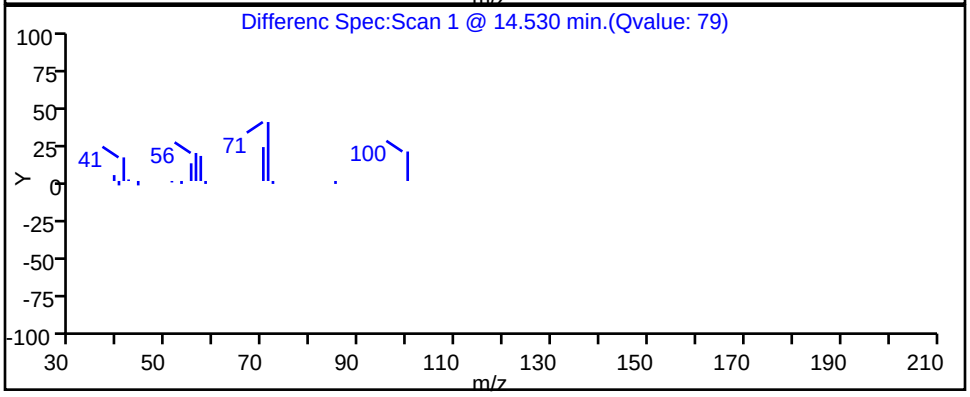










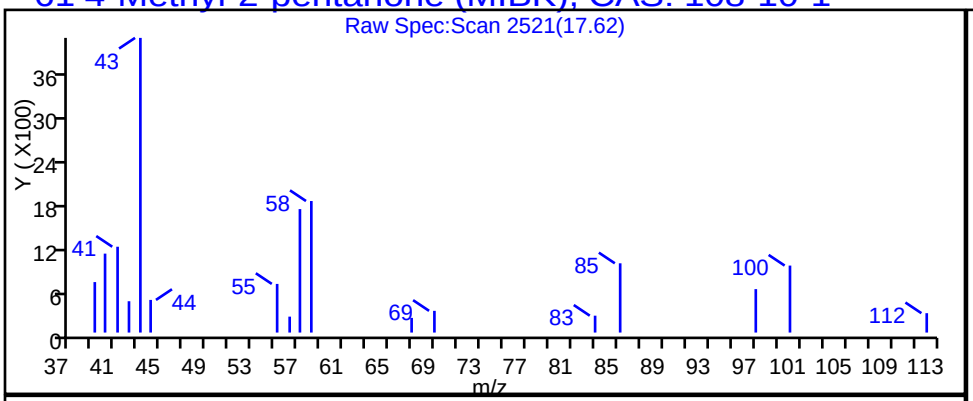


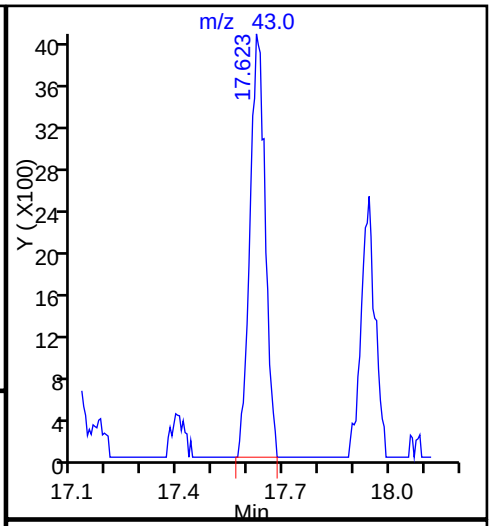
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

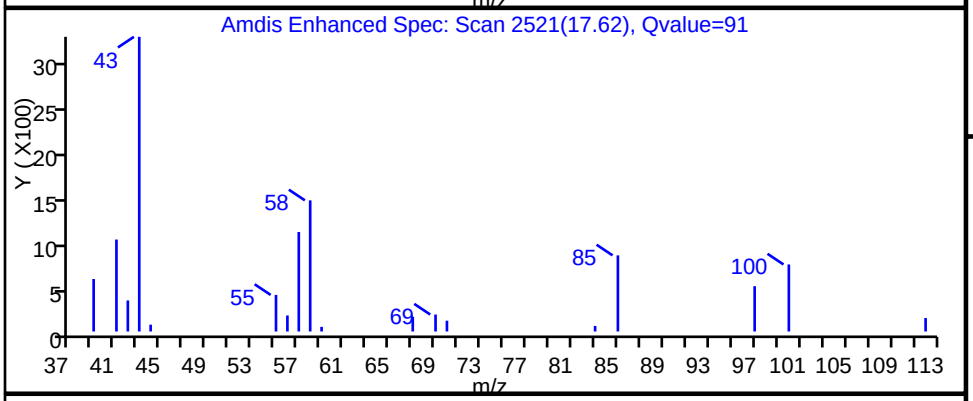
TestAmerica Burlington

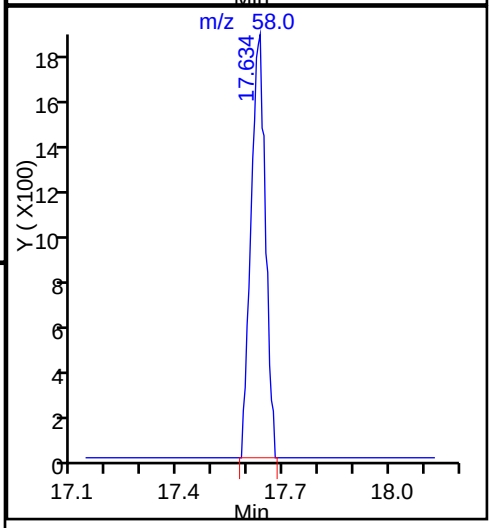
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

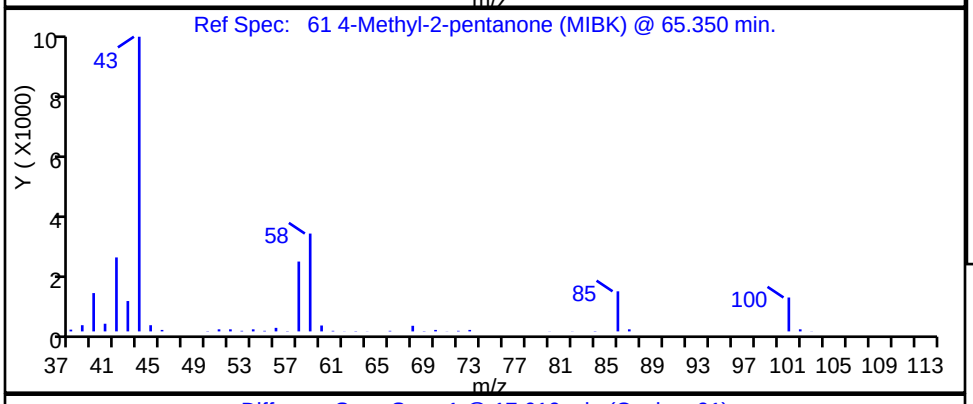
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

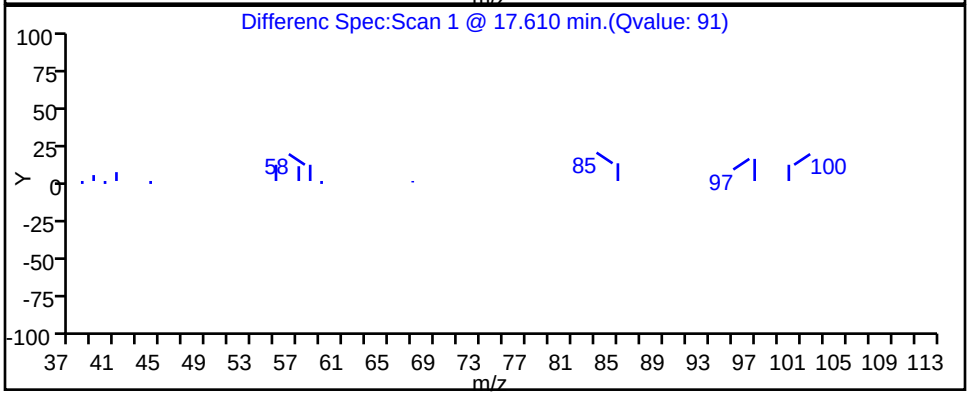












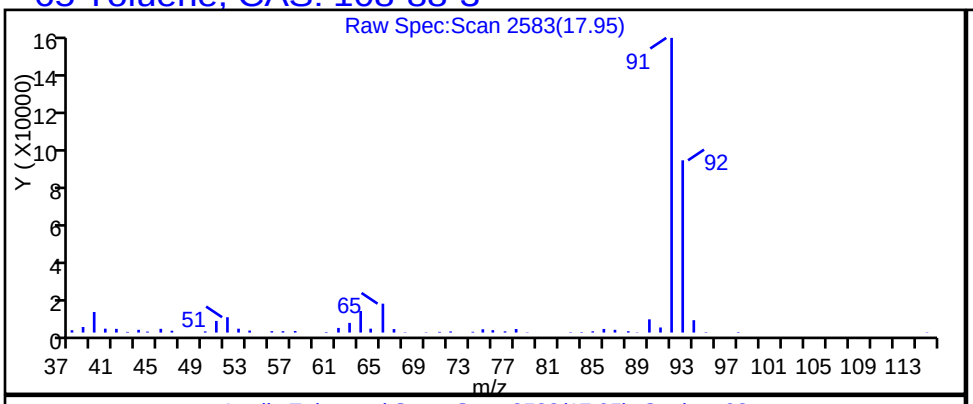
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

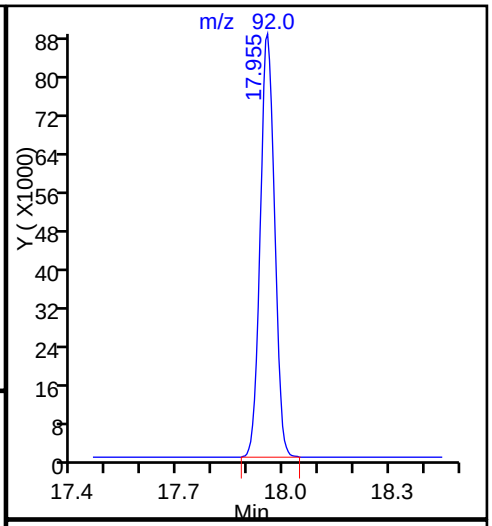
TestAmerica Burlington

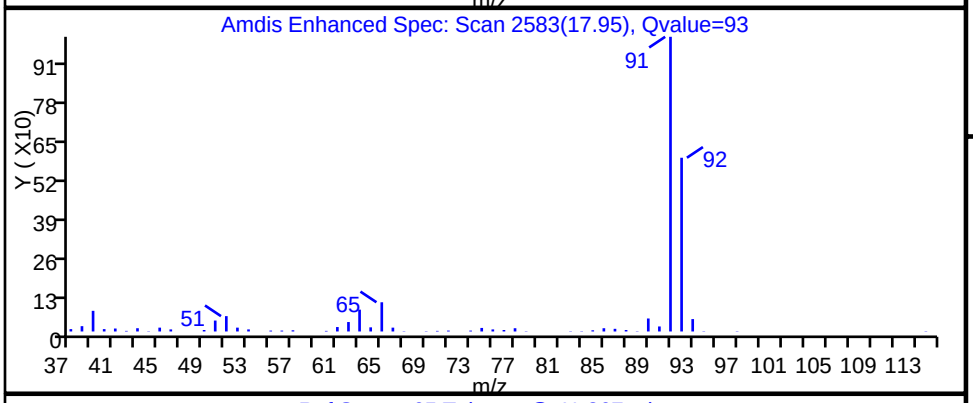
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

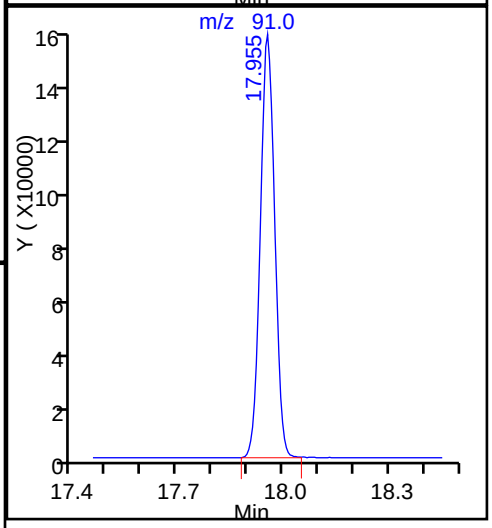
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

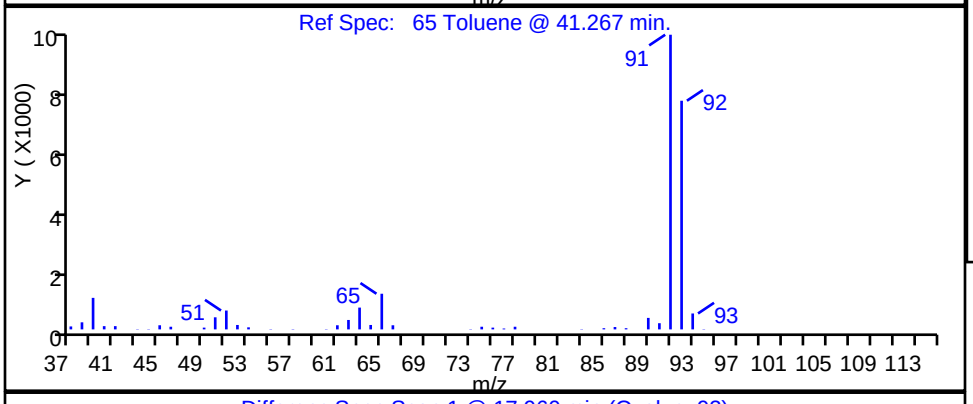
65 Toluene, CAS: 108-88-3

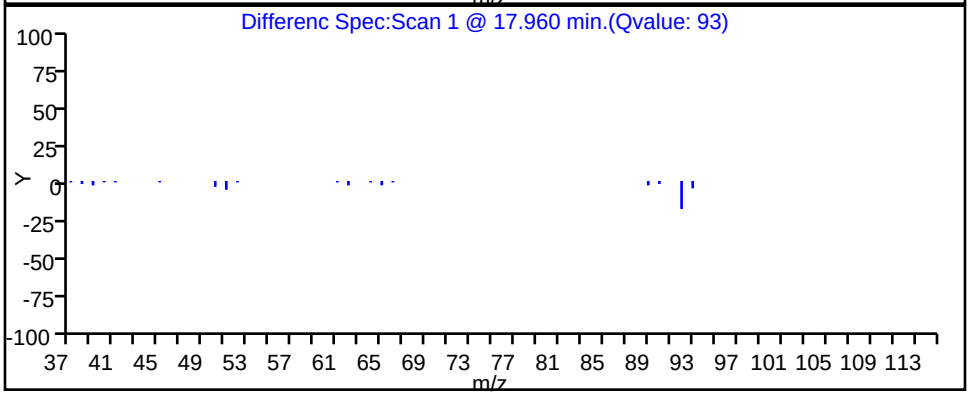












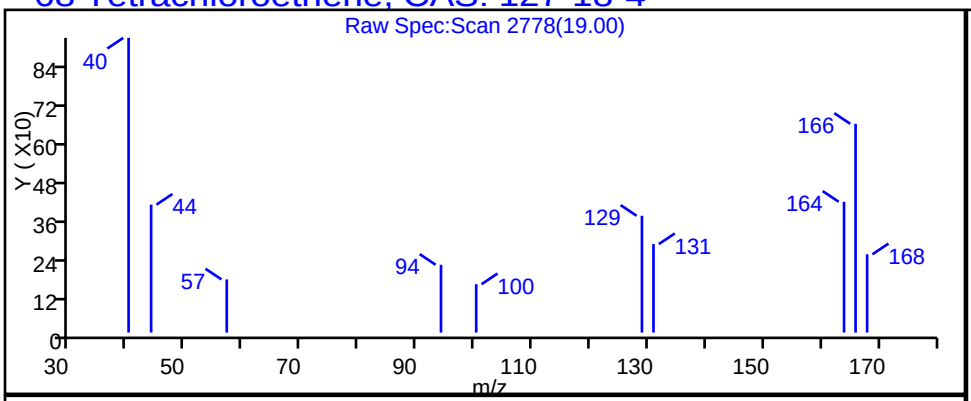
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

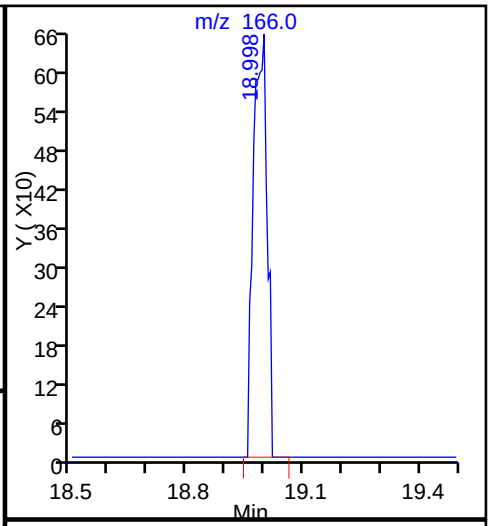
TestAmerica Burlington

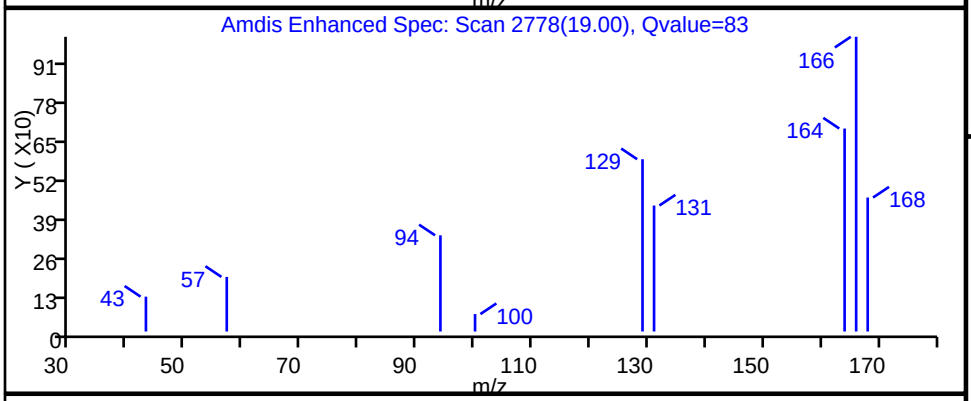
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

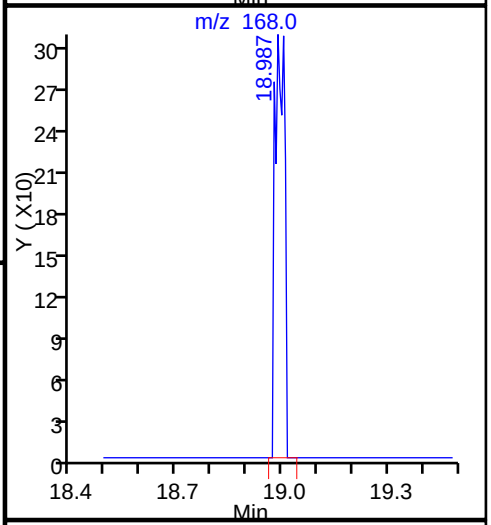
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

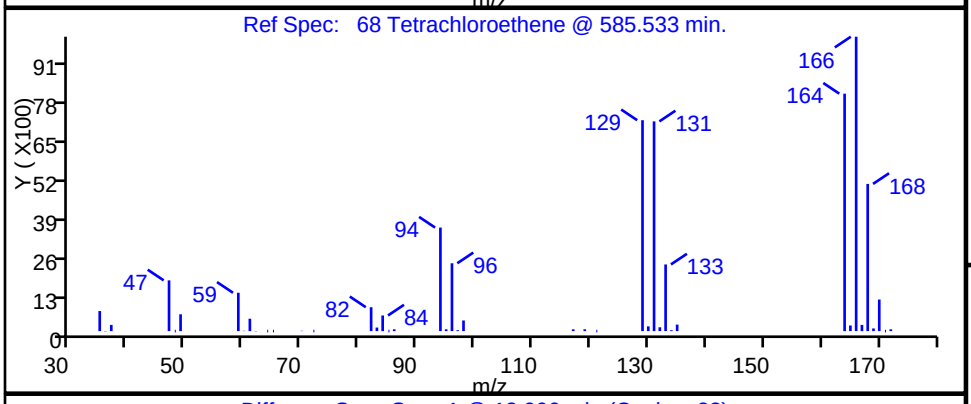
68 Tetrachloroethene, CAS: 127-18-4

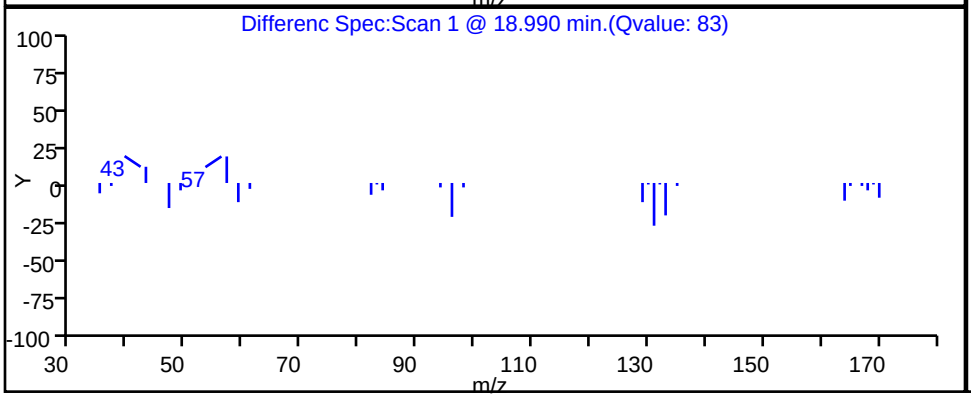


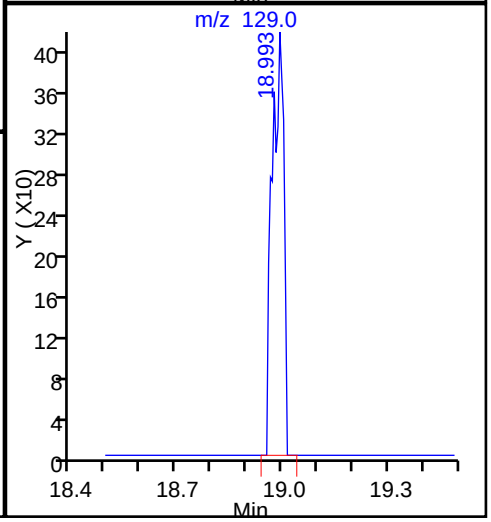










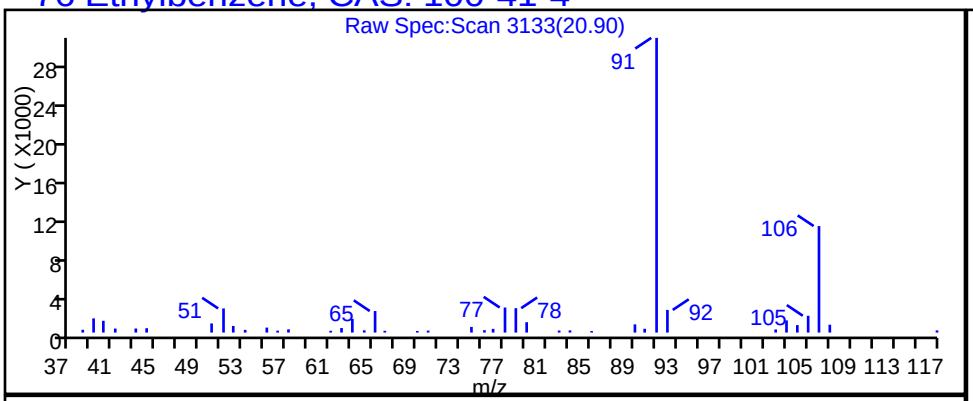


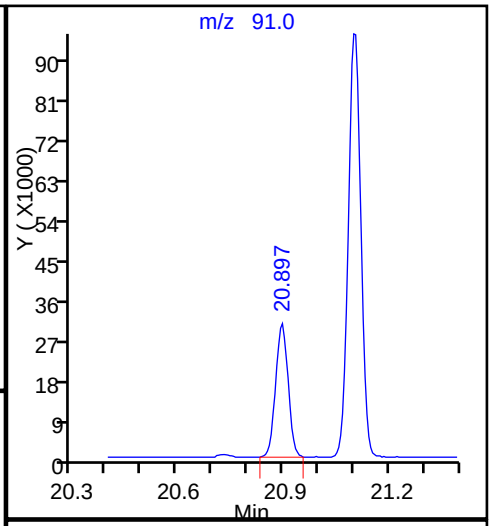
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

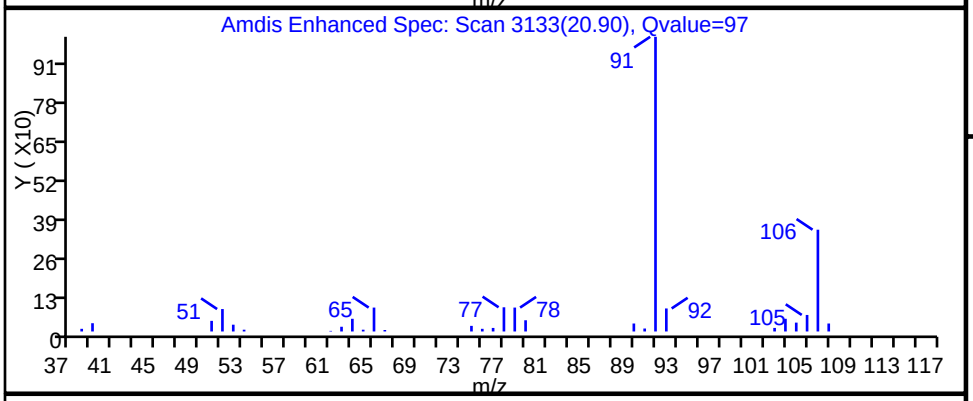
TestAmerica Burlington

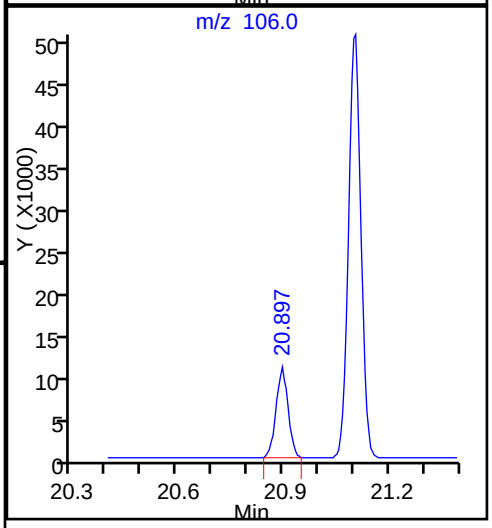
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

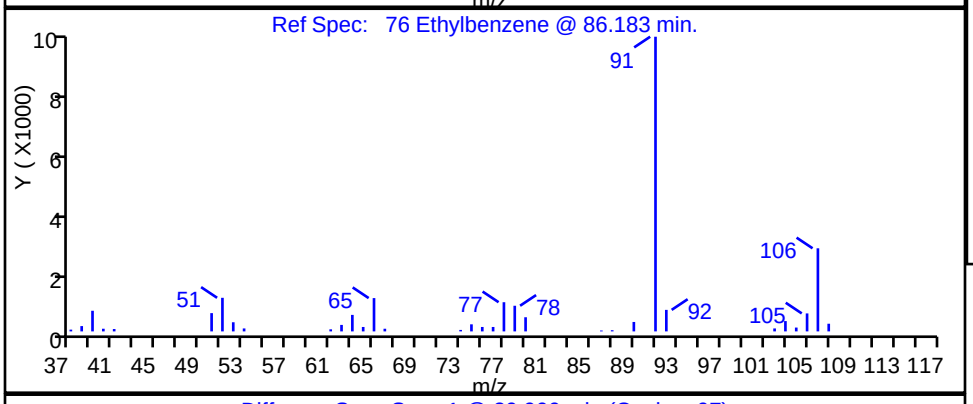
76 Ethylbenzene, CAS: 100-41-4

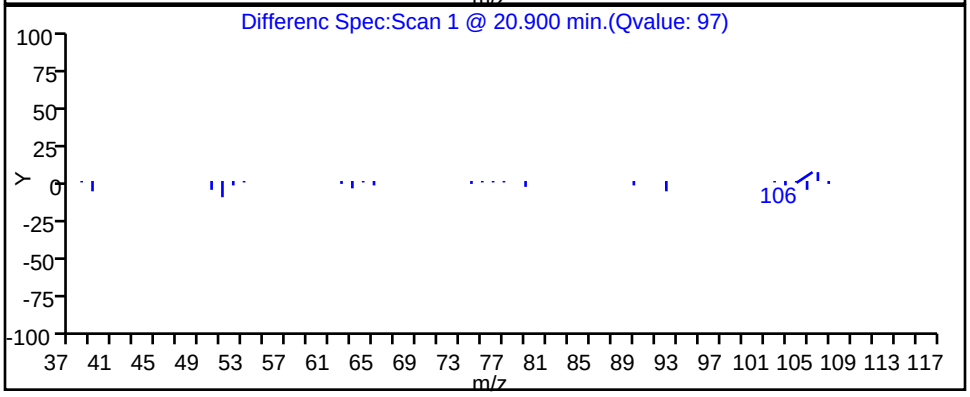










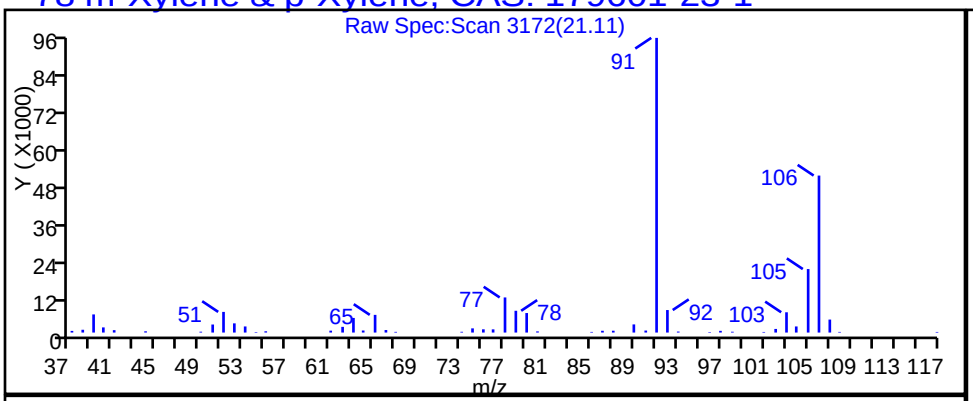


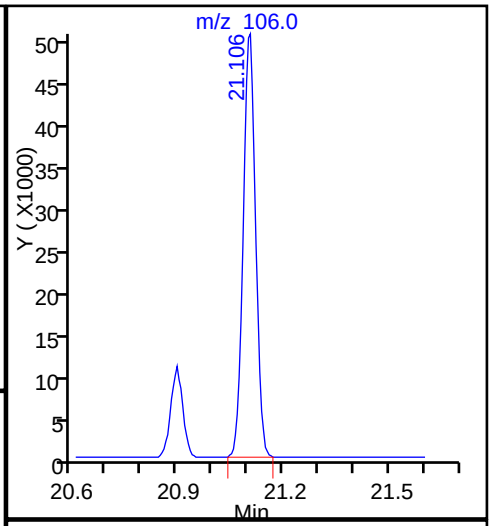
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

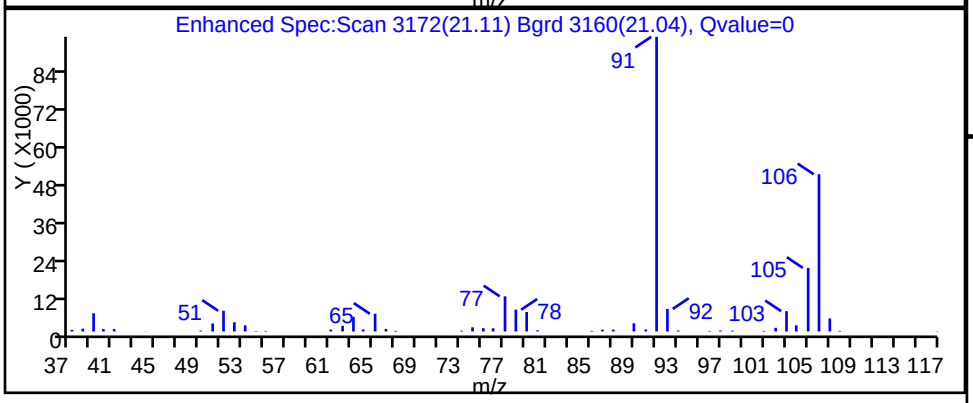
TestAmerica Burlington

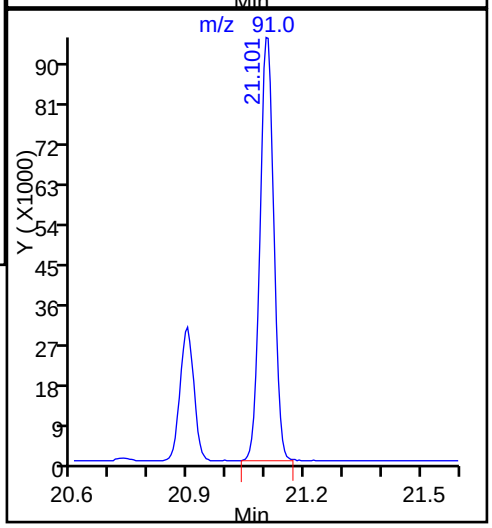
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









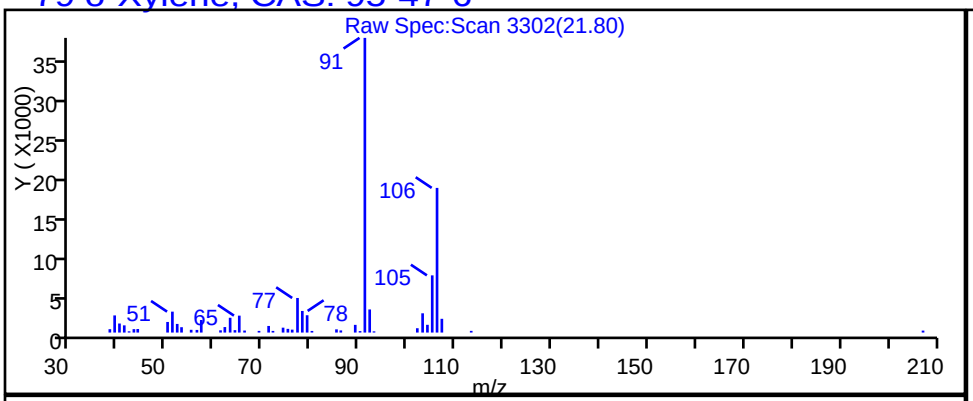
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

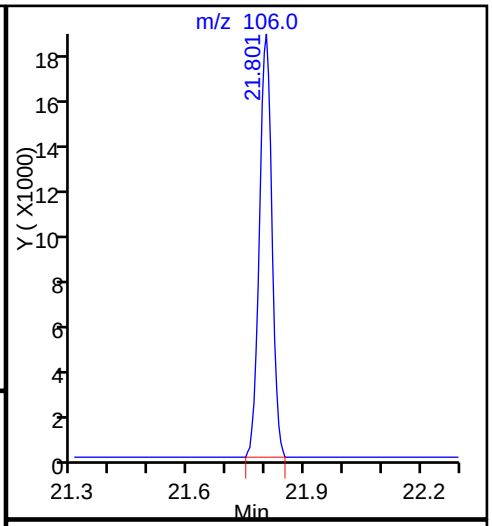
TestAmerica Burlington

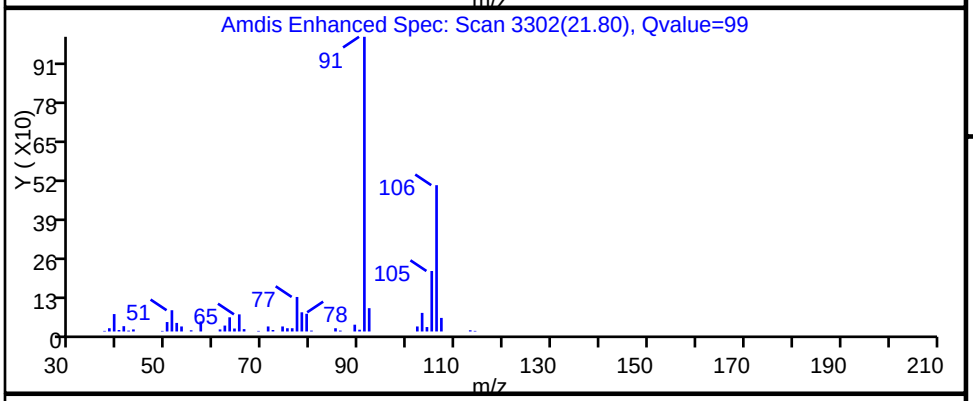
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

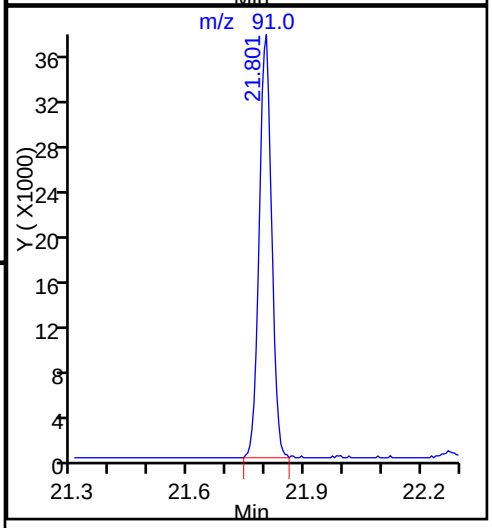
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

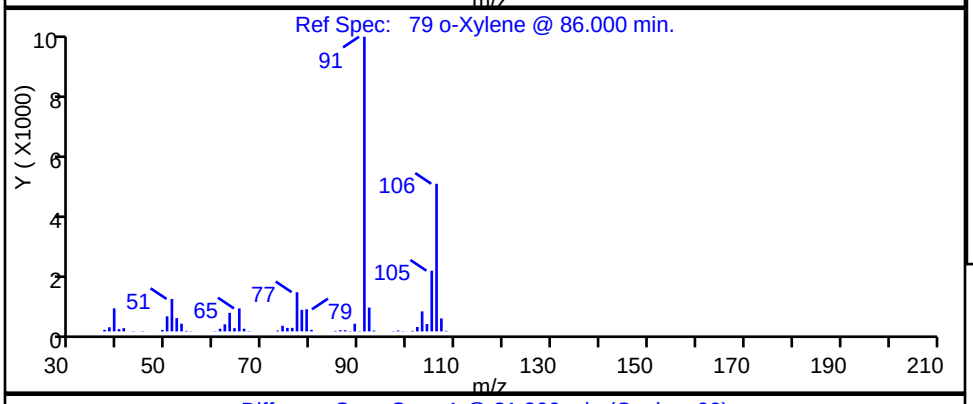
79 o-Xylene, CAS: 95-47-6

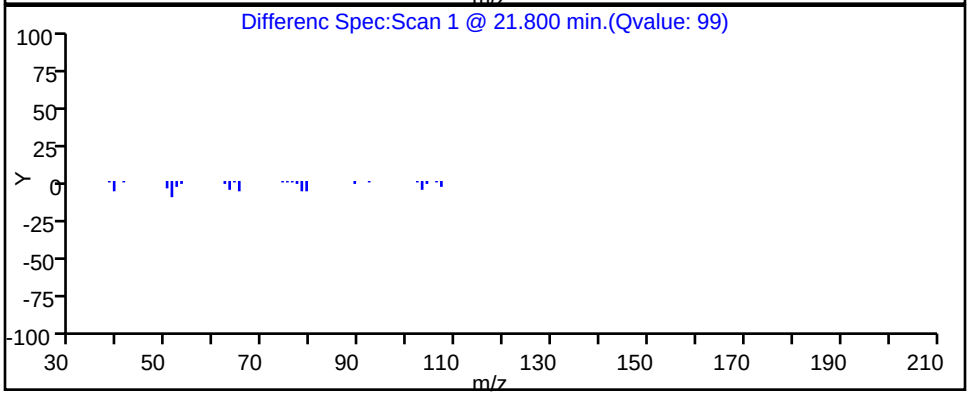












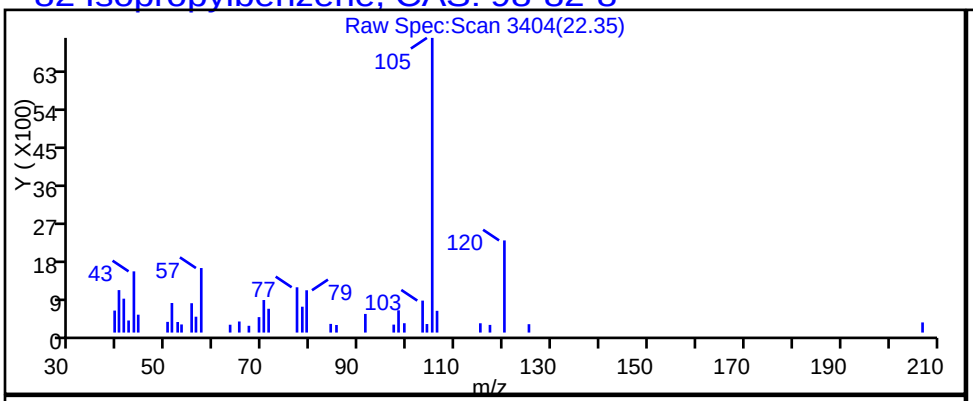
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

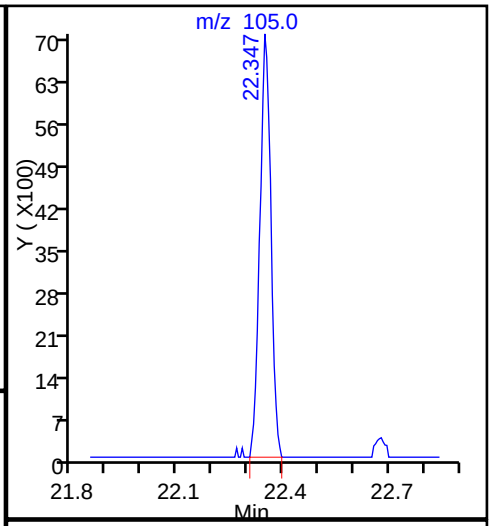
TestAmerica Burlington

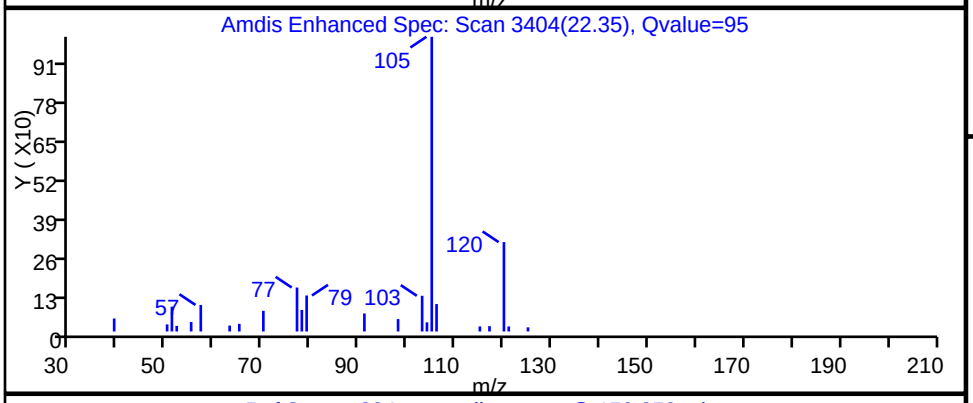
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

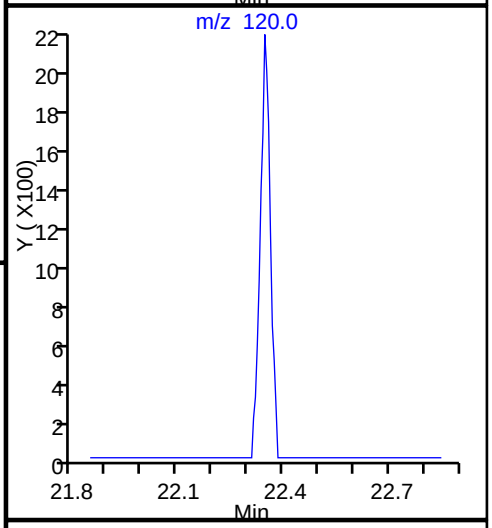
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

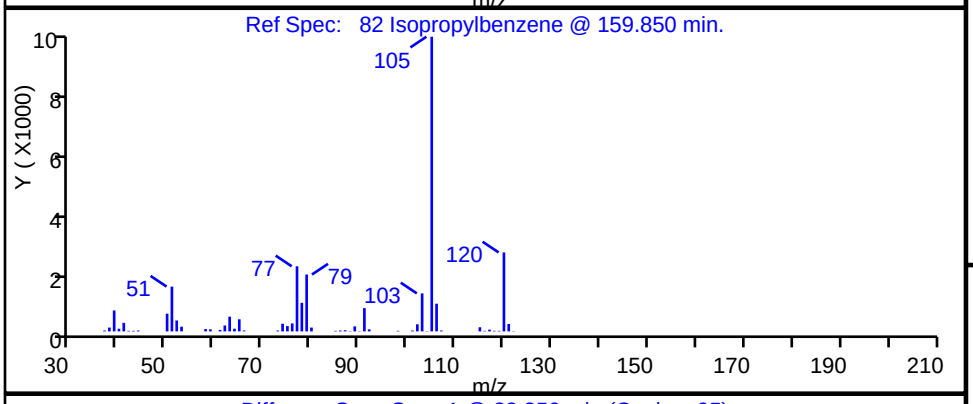
82 Isopropylbenzene, CAS: 98-82-8

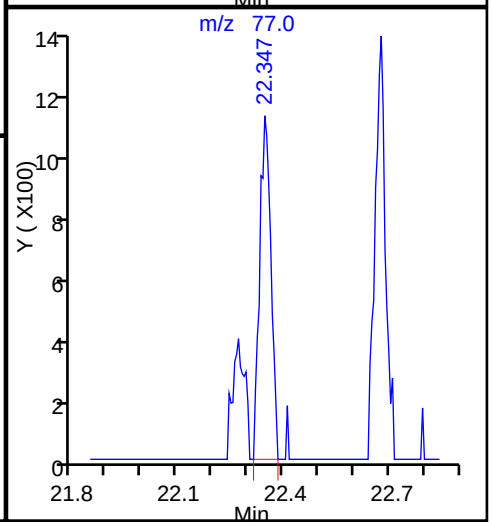


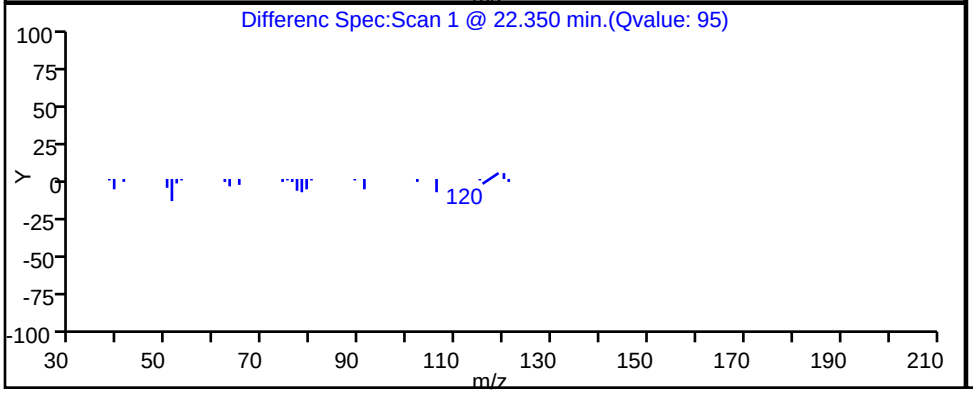












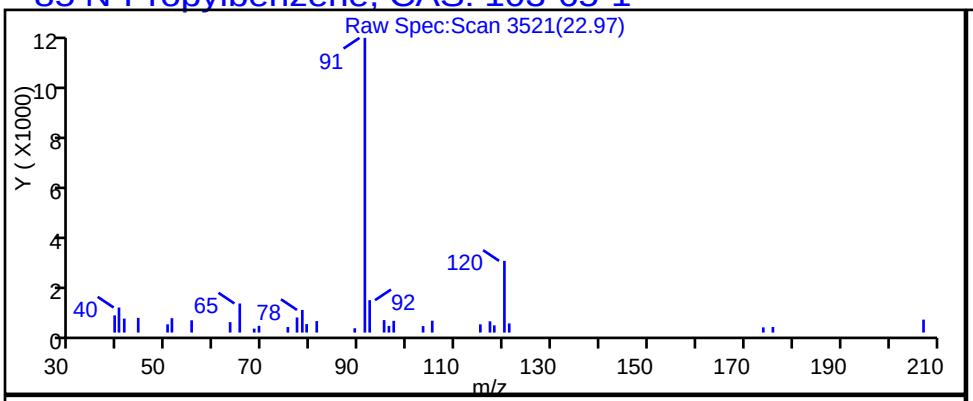
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

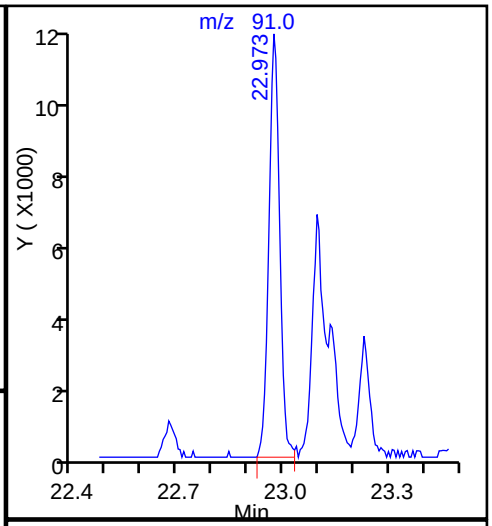
TestAmerica Burlington

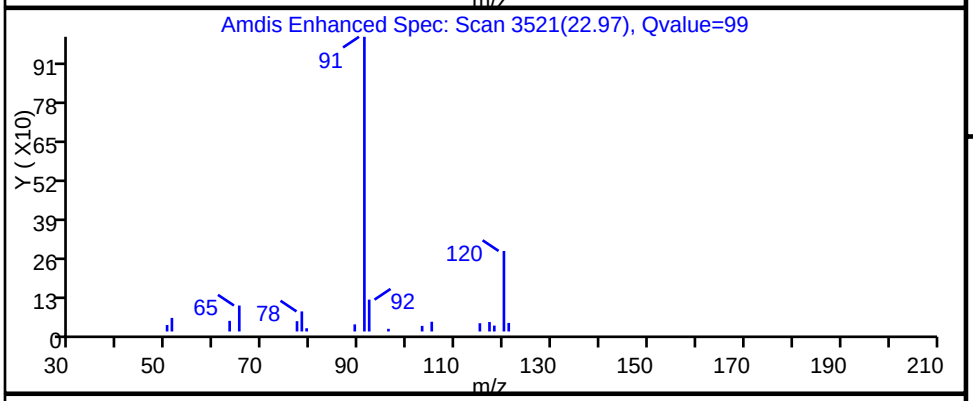
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

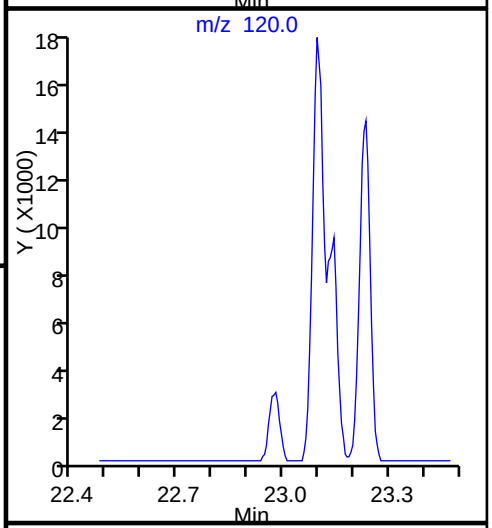
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

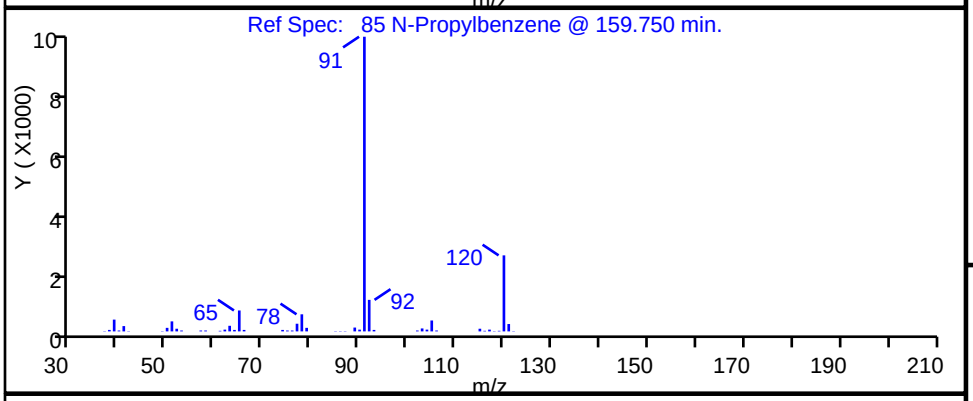
85 N-Propylbenzene, CAS: 103-65-1

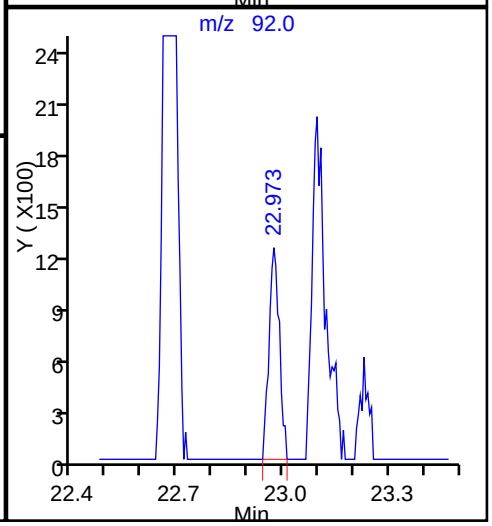


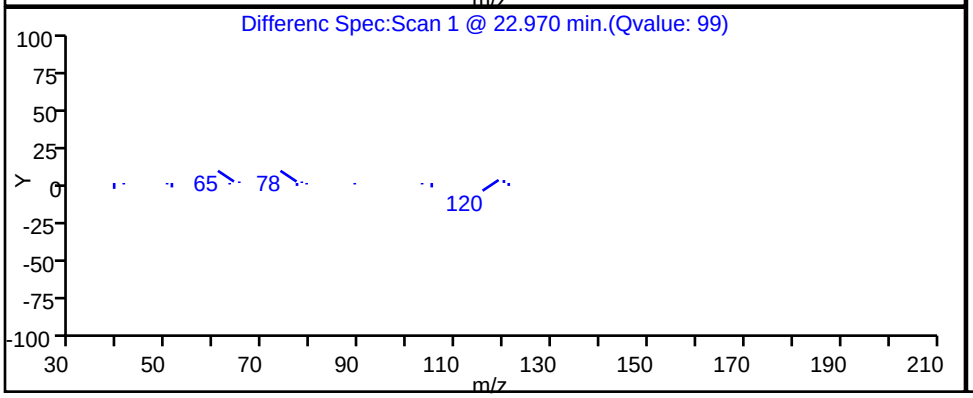










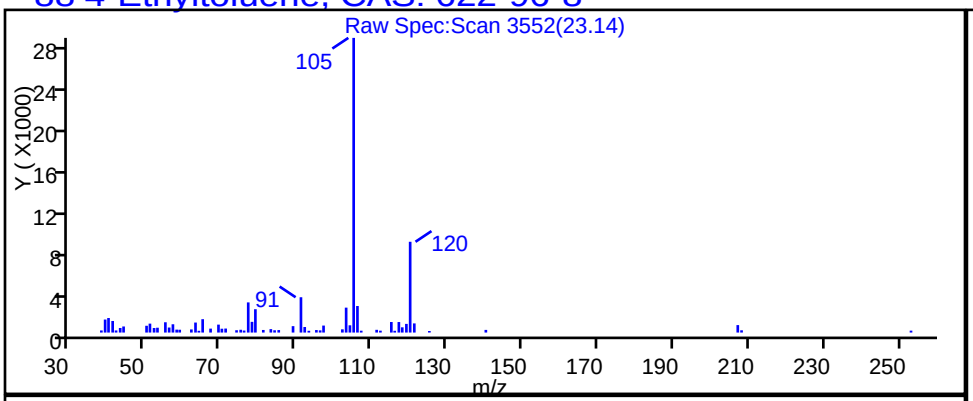


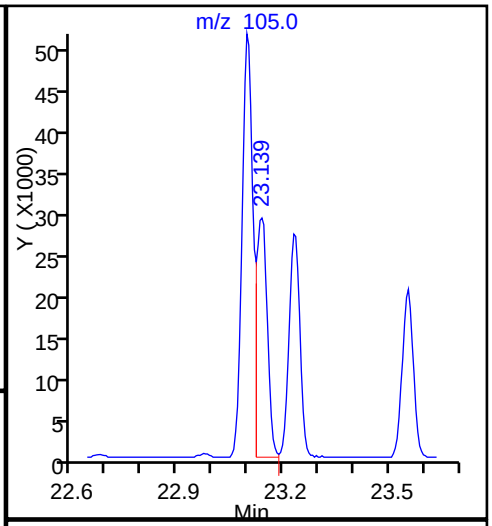
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

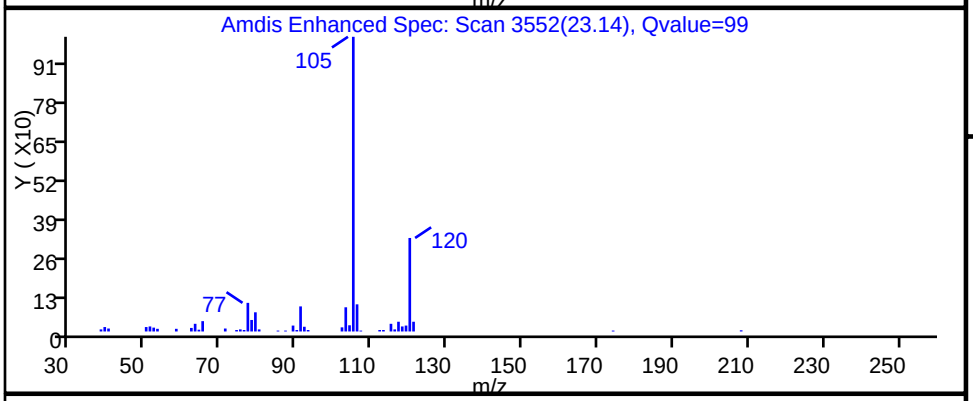
TestAmerica Burlington

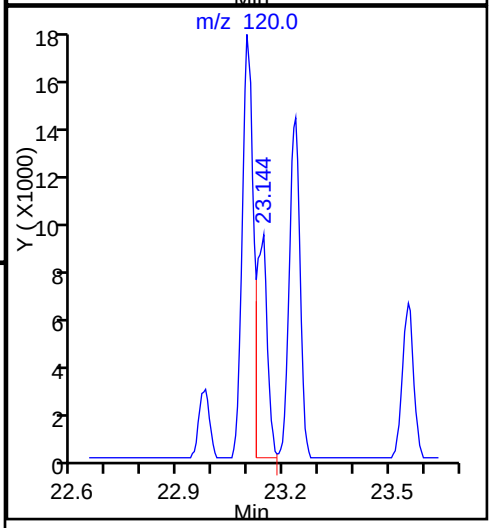
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

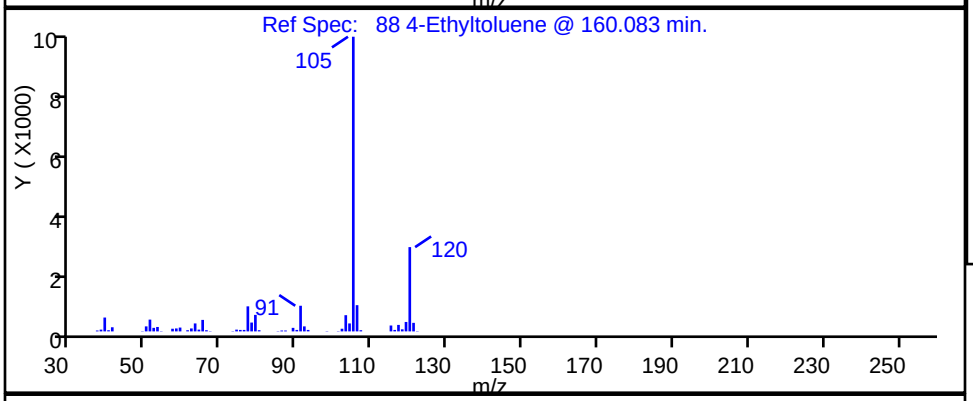
88 4-Ethyltoluene, CAS: 622-96-8

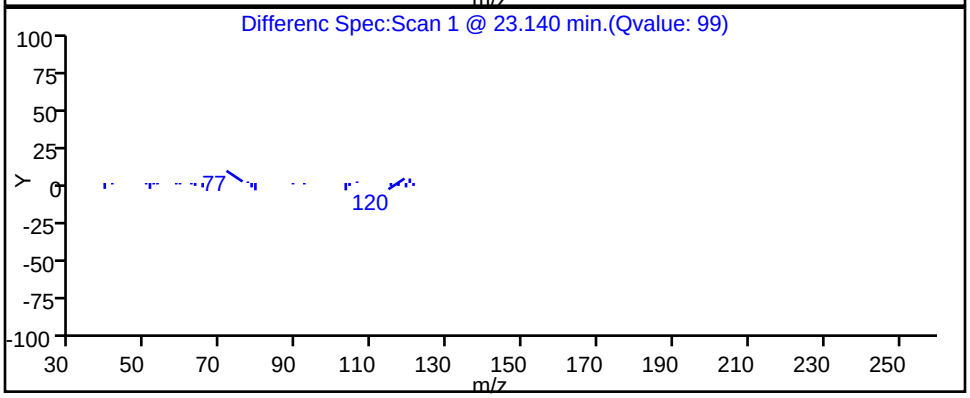












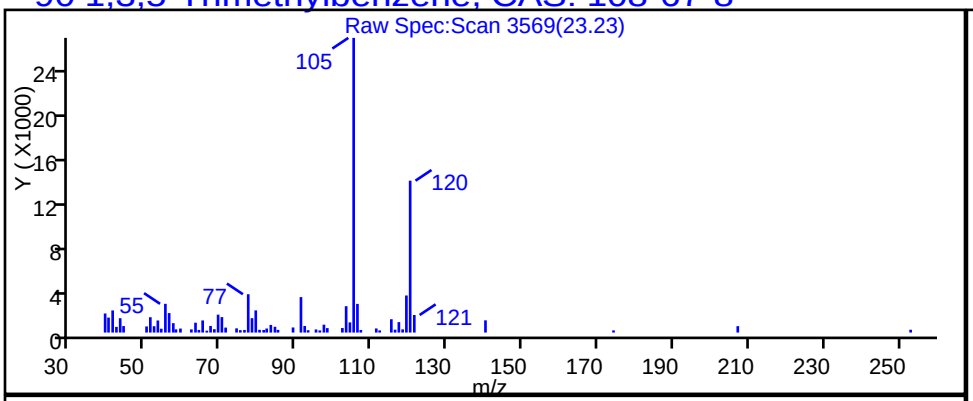
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

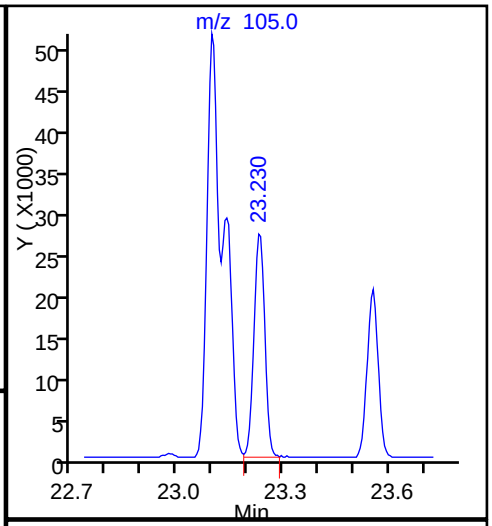
TestAmerica Burlington

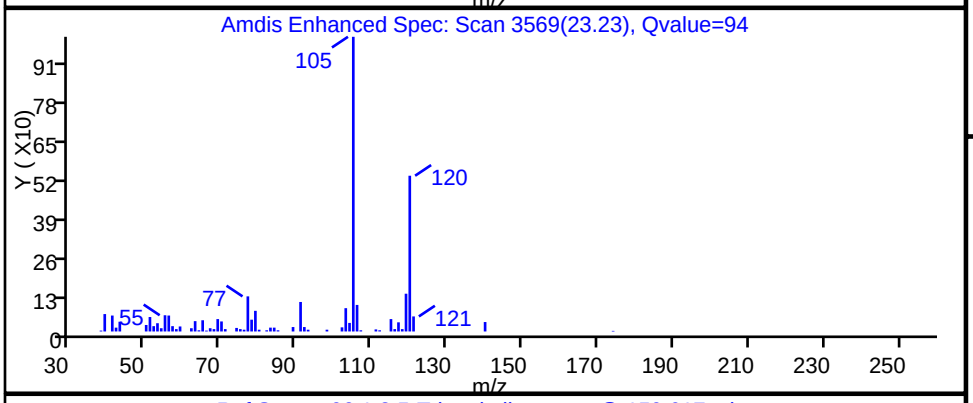
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

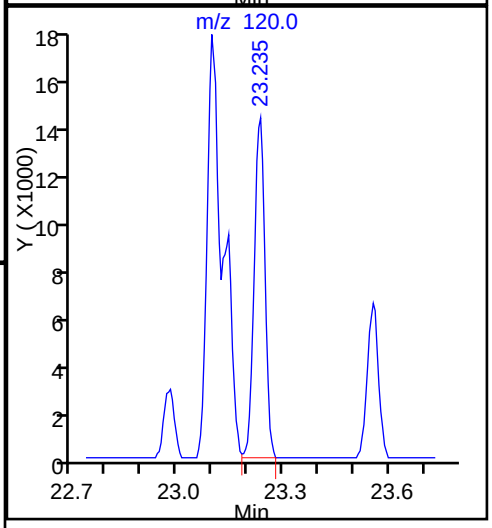
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

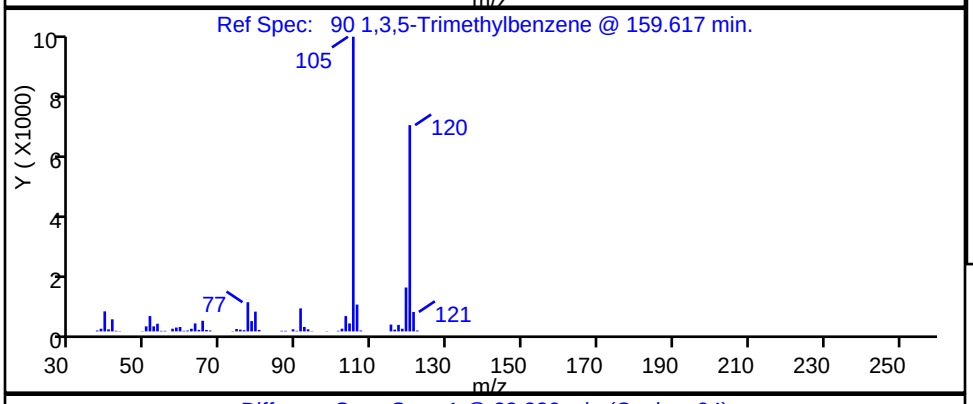
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

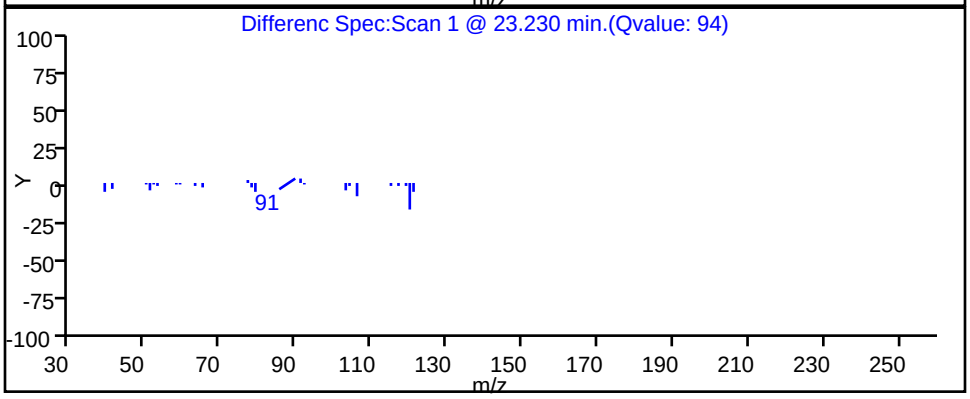










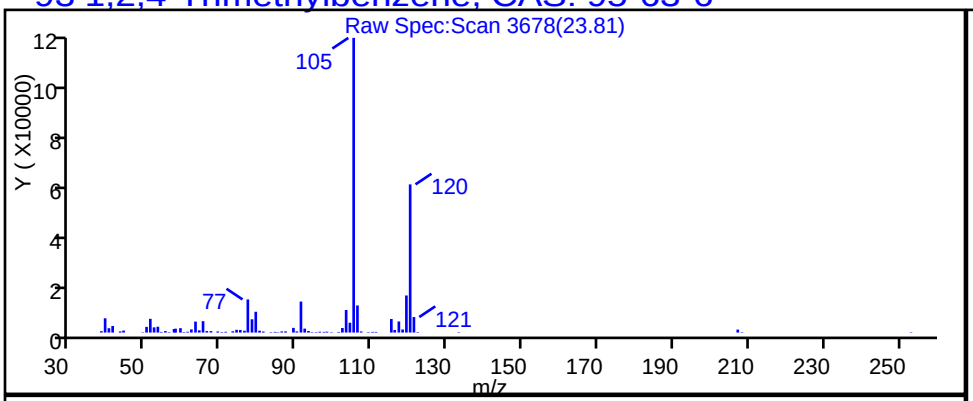


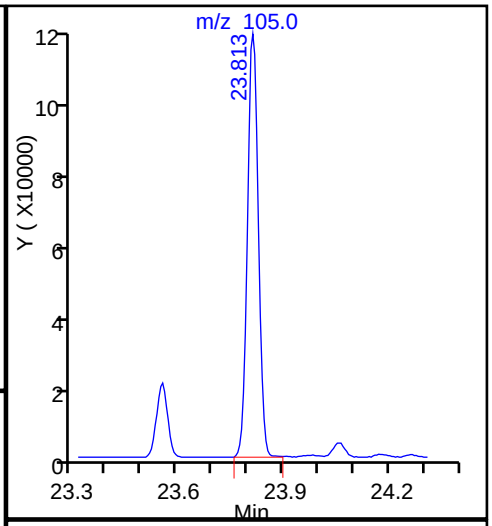
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

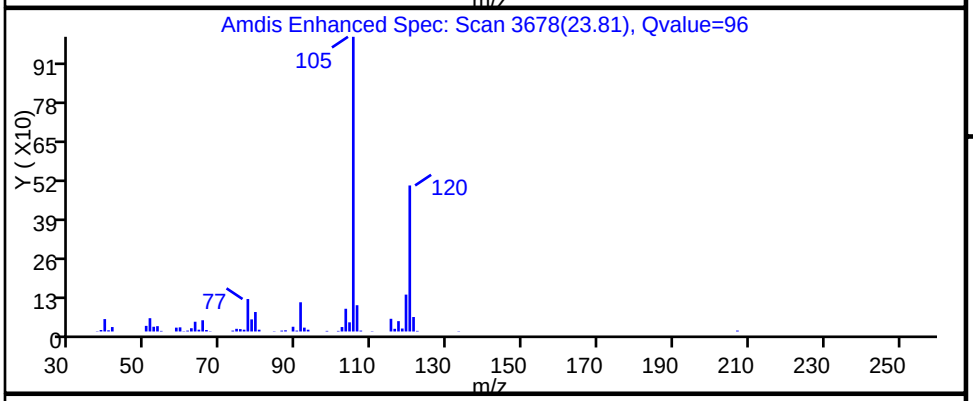
TestAmerica Burlington

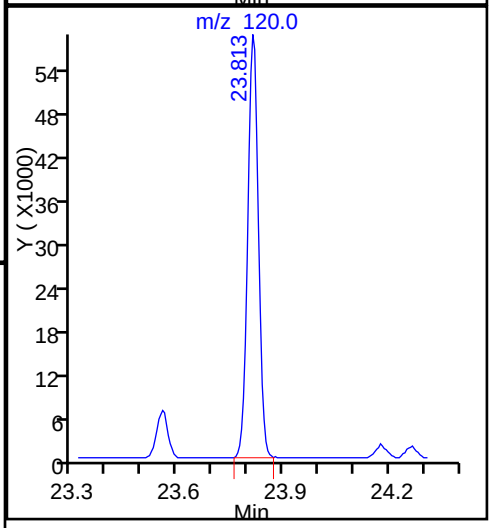
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

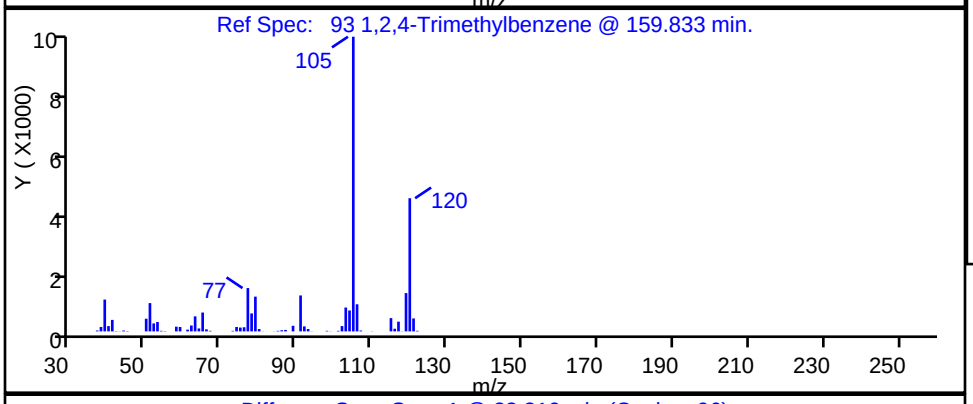
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

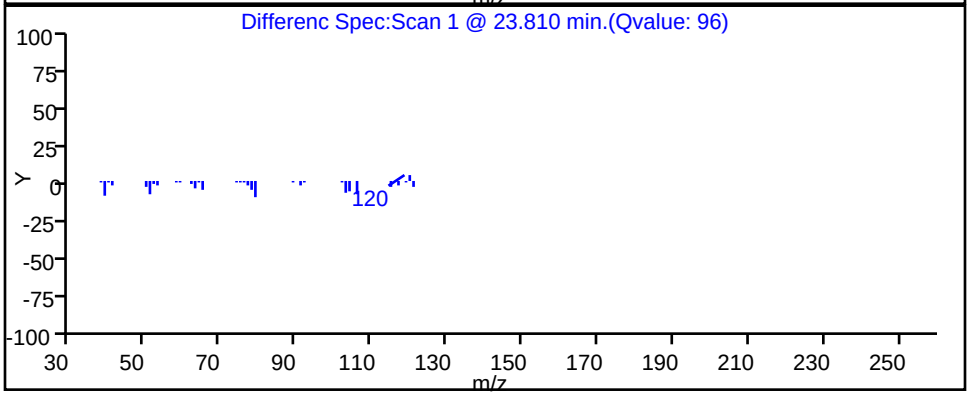












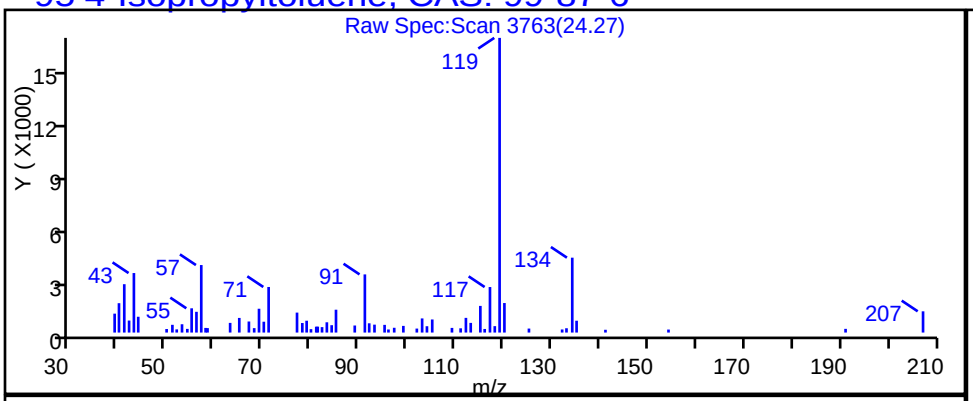
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

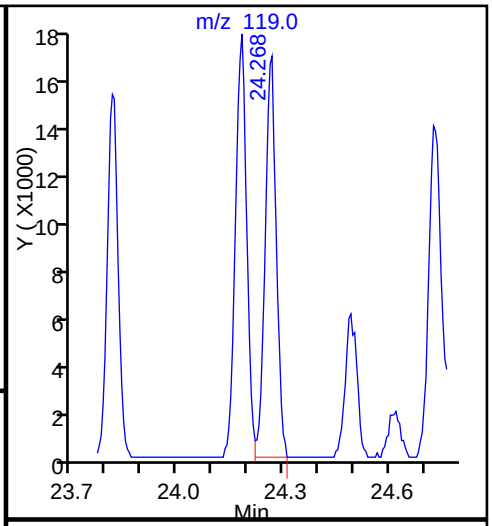
TestAmerica Burlington

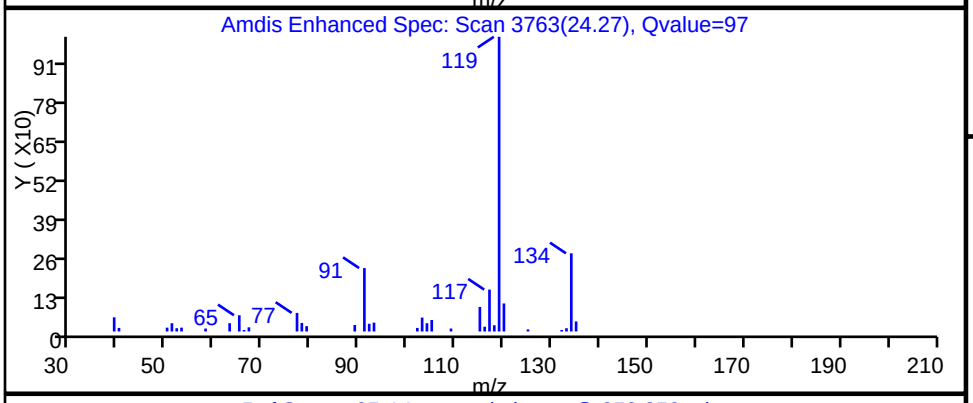
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

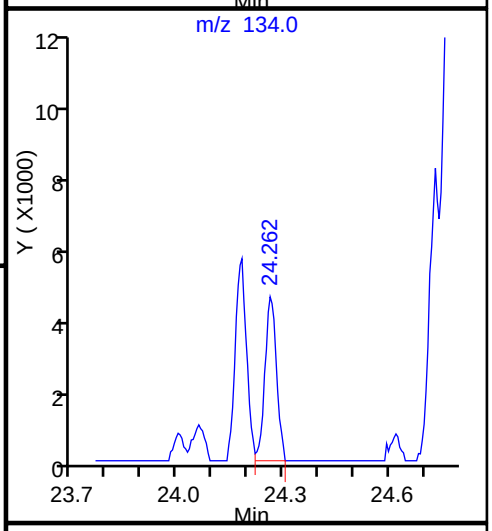
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

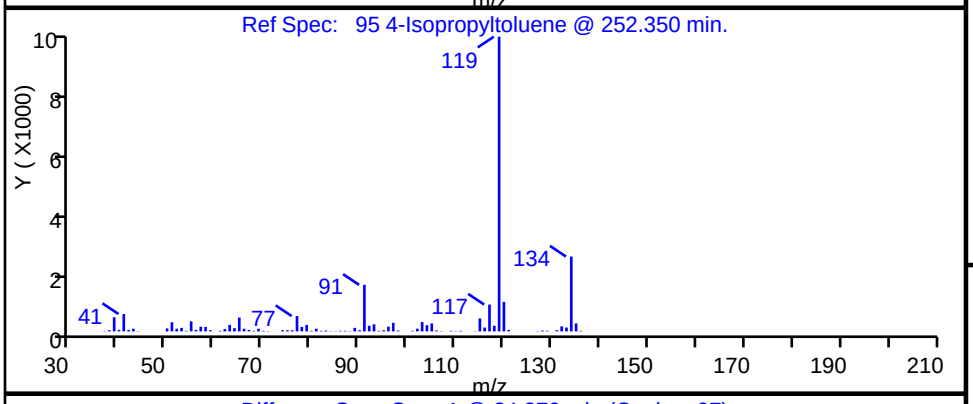
95 4-Isopropyltoluene, CAS: 99-87-6

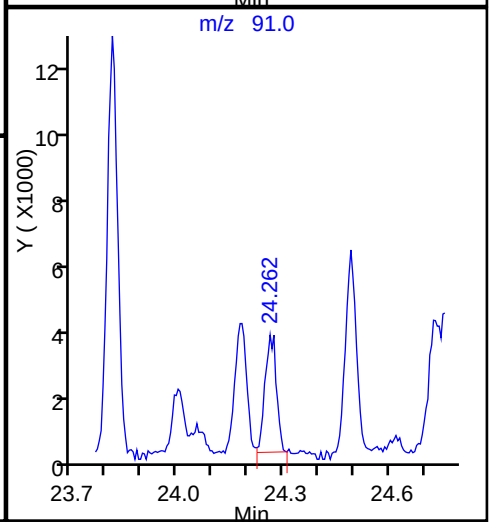


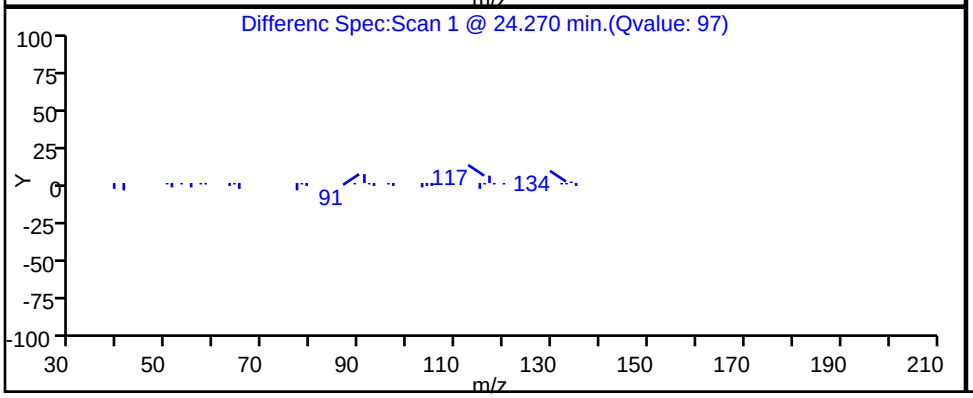












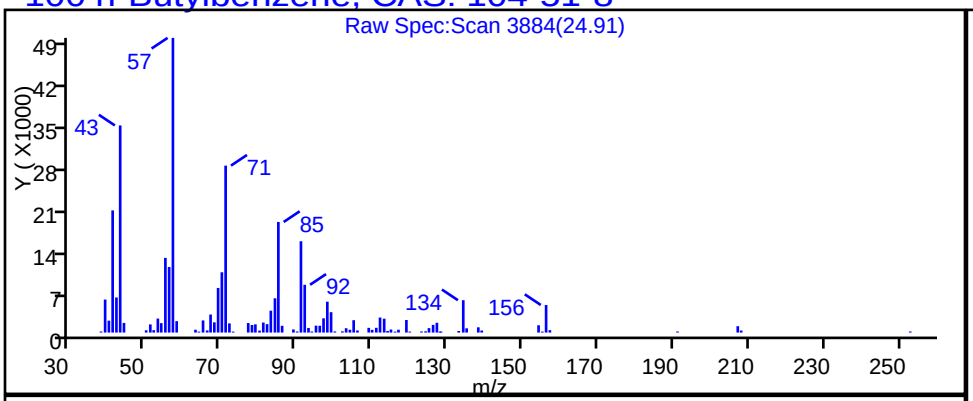
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

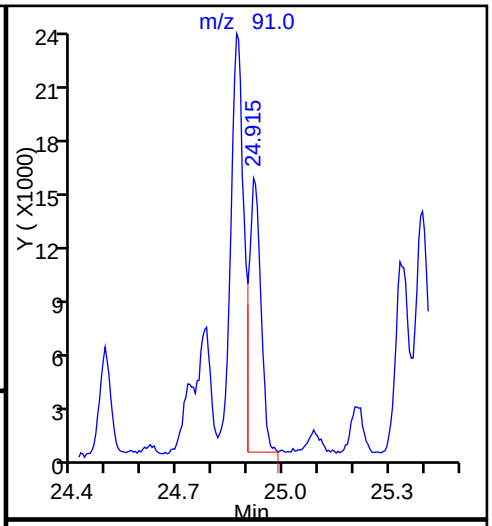
TestAmerica Burlington

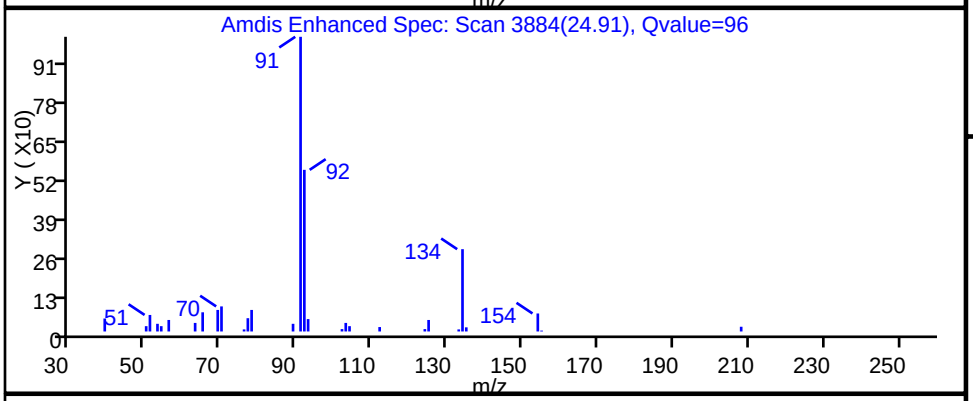
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d

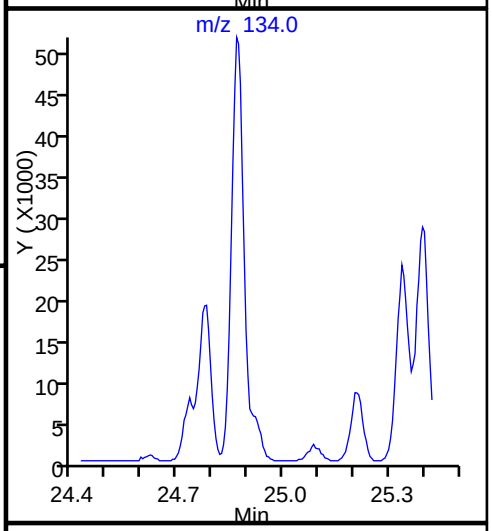
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

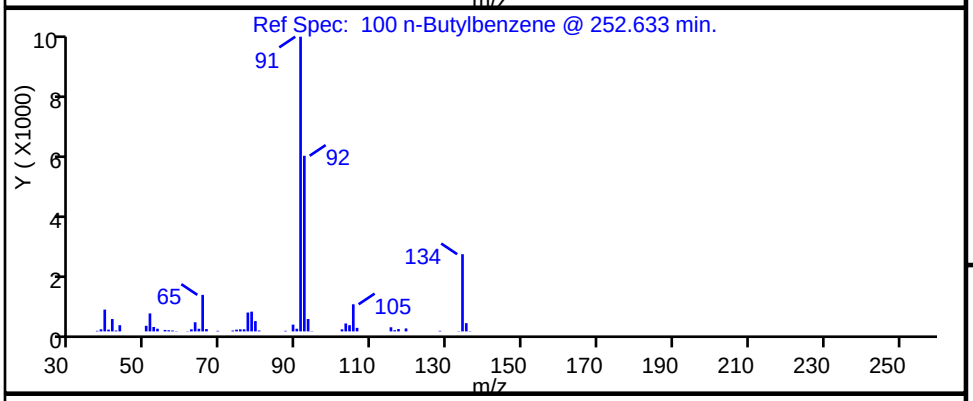
100 n-Butylbenzene, CAS: 104-51-8

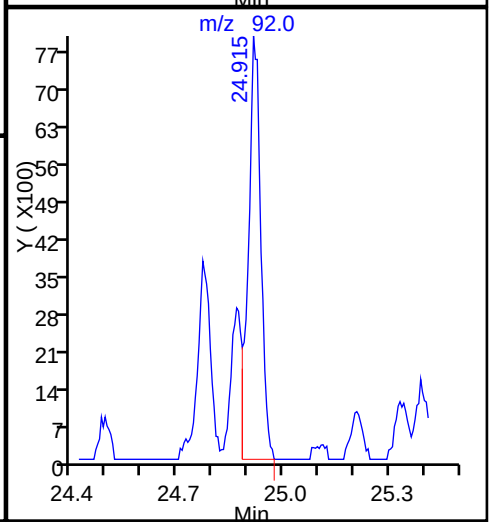


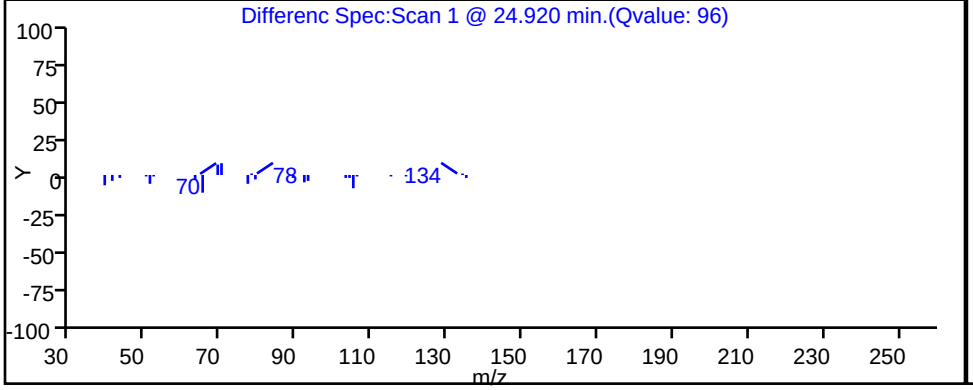










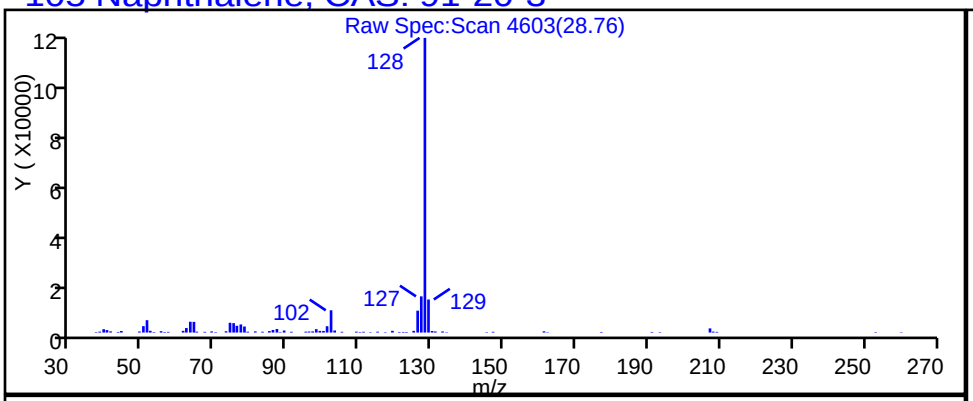


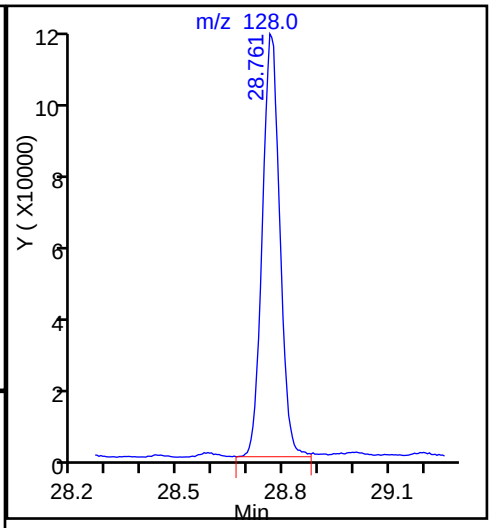
Report Date: 01-Oct-2015 12:53:21 Chrom Revision: 2.2 23-Jul-2015 08:26:08

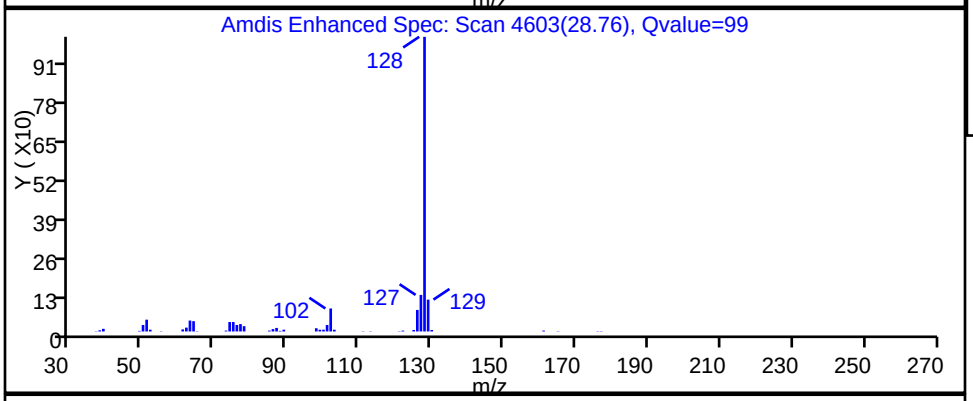
TestAmerica Burlington

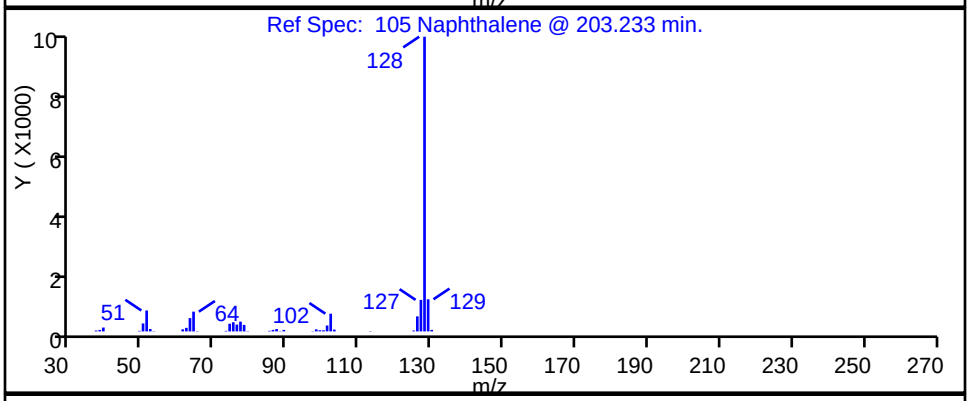
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

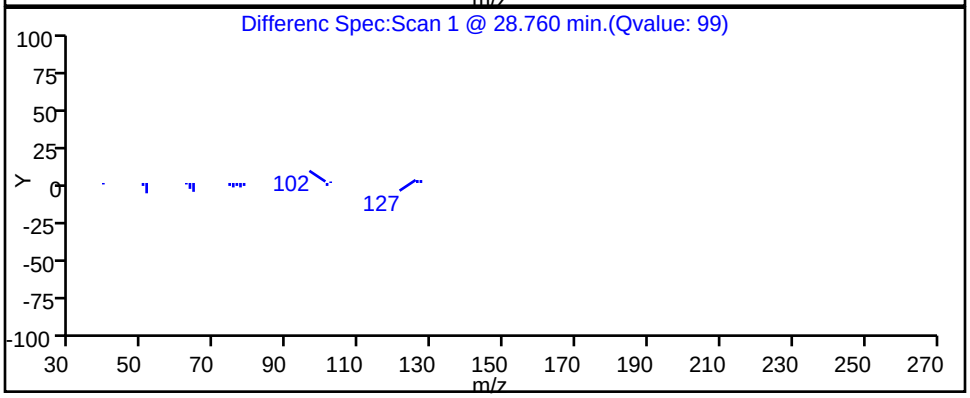
105 Naphthalene, CAS: 91-20-3











Manual Integration/User Assign Peak Report

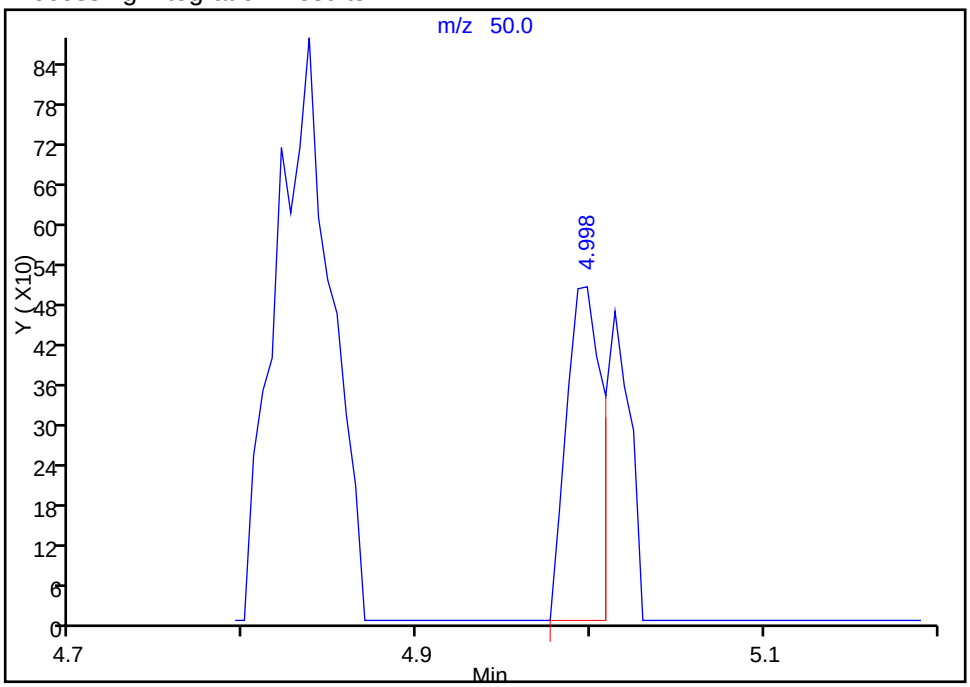
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

5 Chloromethane, CAS: 74-87-3

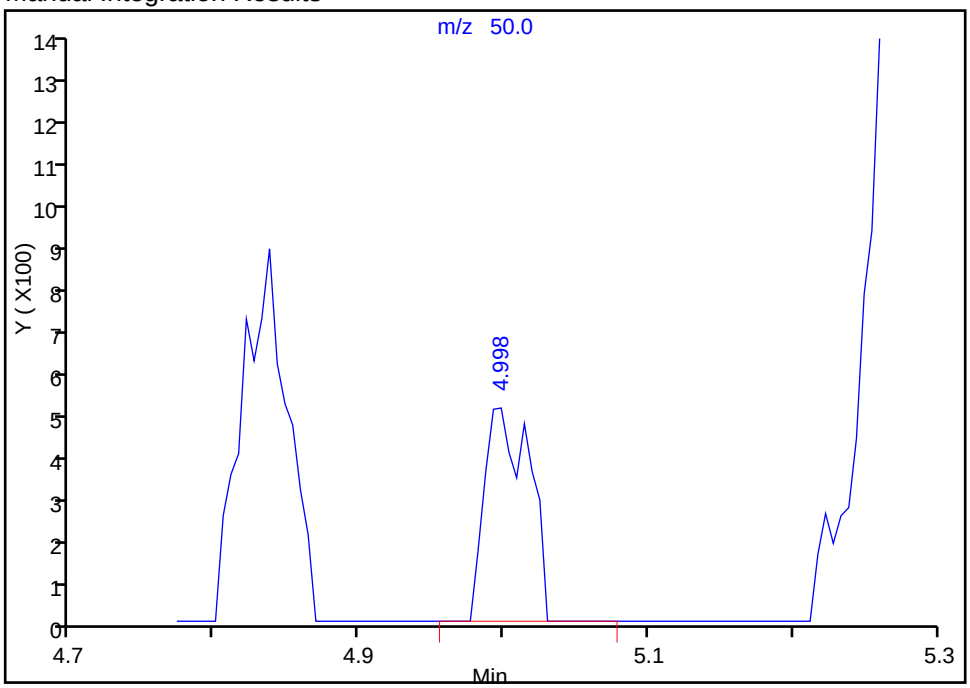
Processing Integration Results

RT: 5.00
Area: 722
Amount: 0.076672
Amount Units: ppb v/v



Manual Integration Results

RT: 5.00
Area: 1076
Amount: 0.114264
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

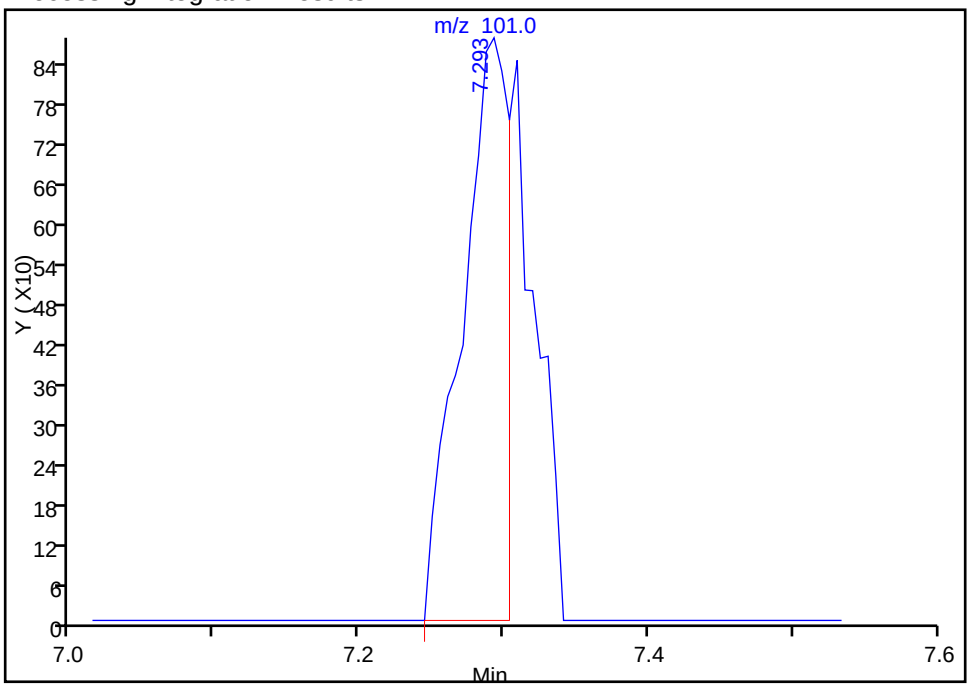
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

14 Trichlorofluoromethane, CAS: 75-69-4

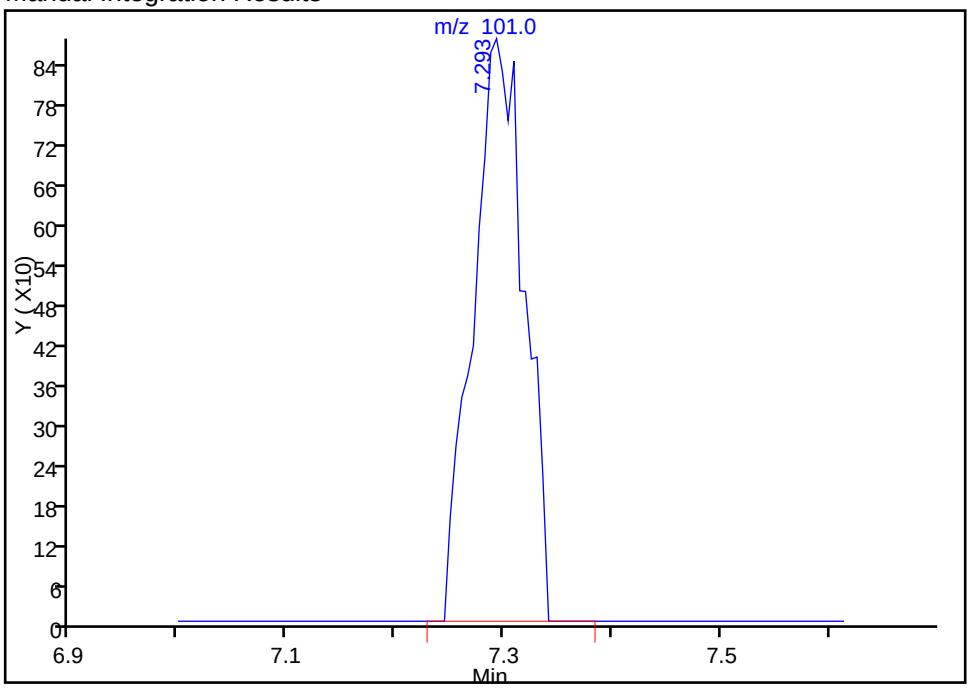
Processing Integration Results

RT: 7.29
Area: 1980
Amount: 0.036182
Amount Units: ppb v/v



Manual Integration Results

RT: 7.29
Area: 2896
Amount: 0.052921
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

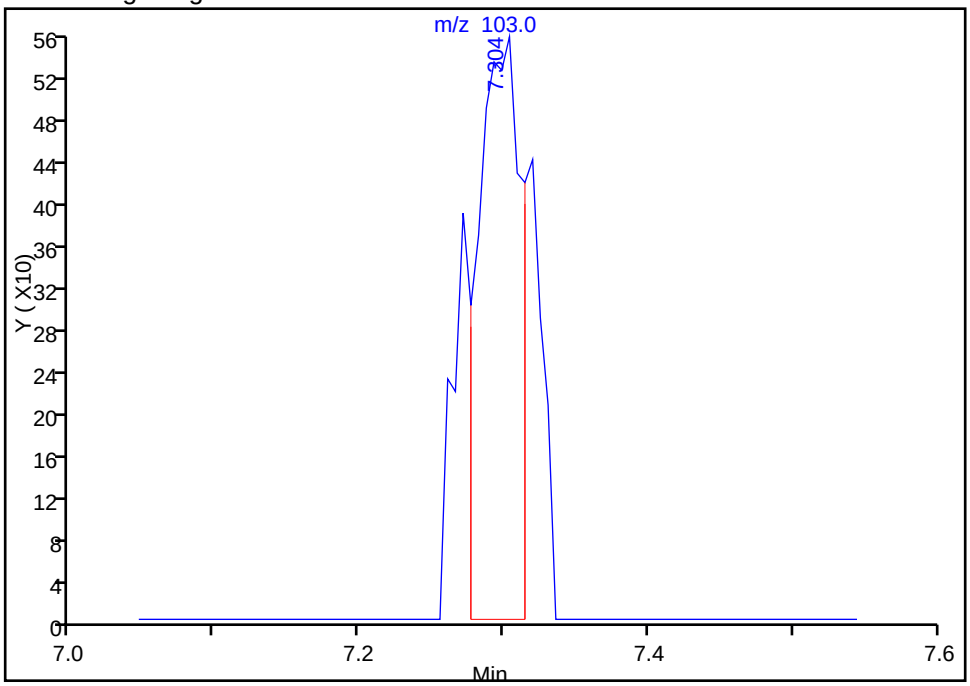
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

14 Trichlorofluoromethane, CAS: 75-69-4

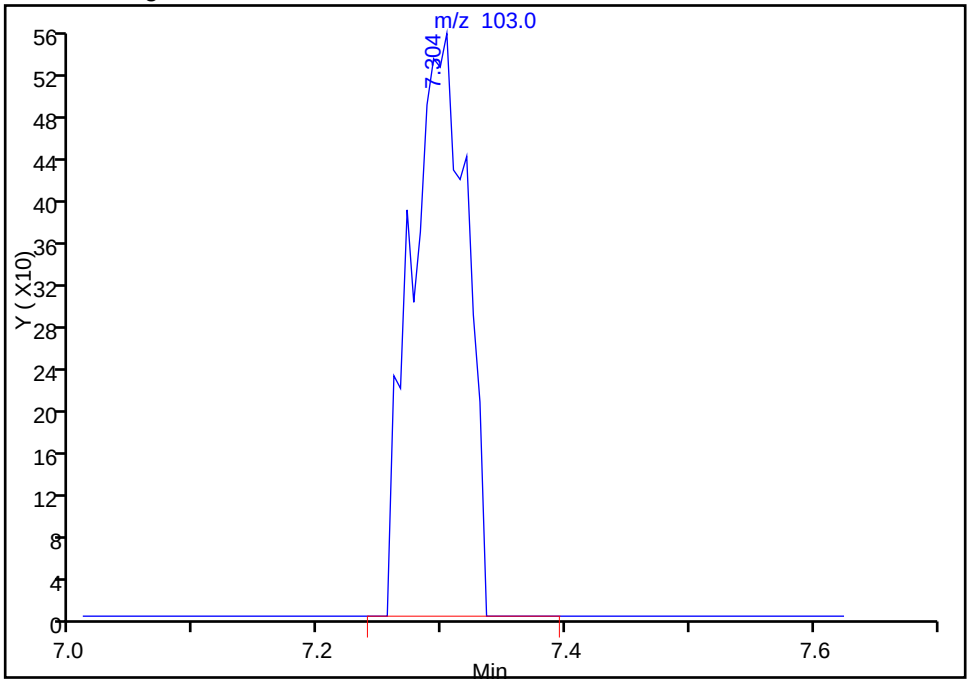
Processing Integration Results

RT: 7.30
Area: 1156
Amount: 0.036182
Amount Units: ppb v/v



Manual Integration Results

RT: 7.30
Area: 1722
Amount: 0.052921
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

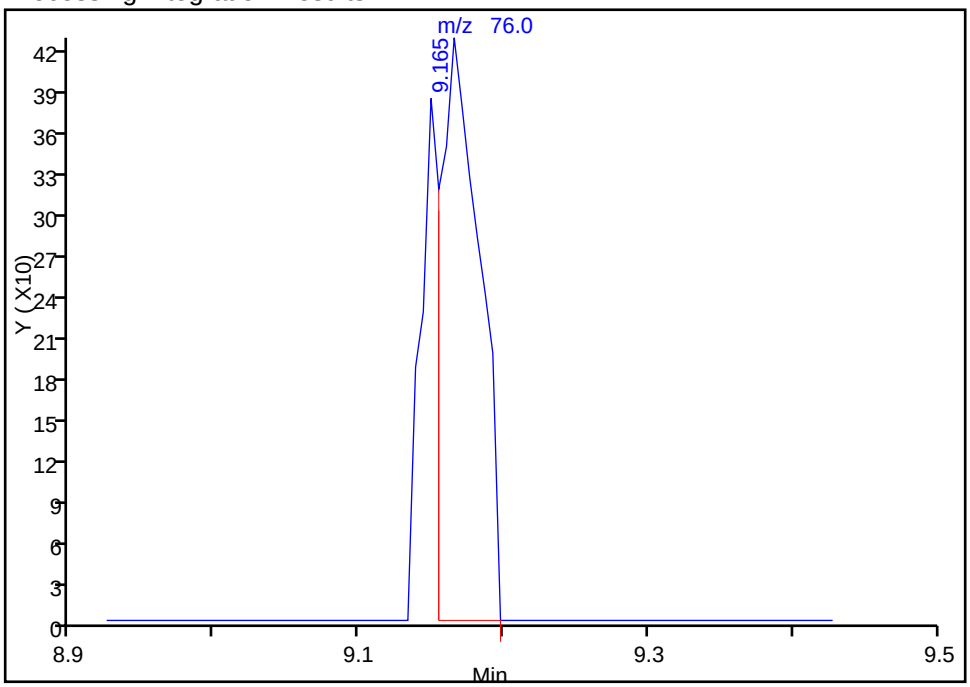
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0

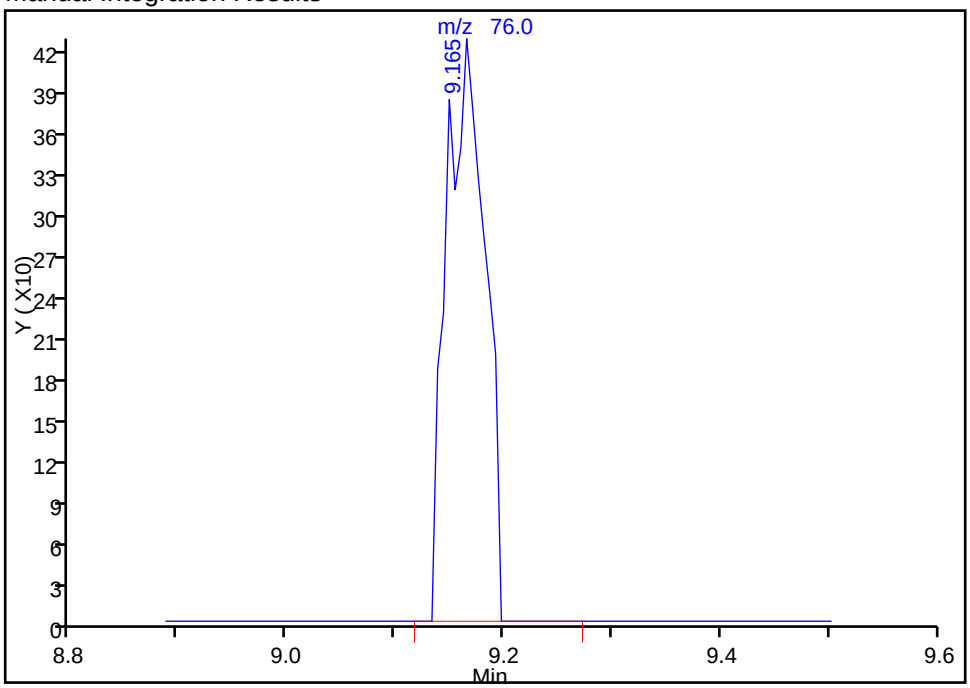
Processing Integration Results

RT: 9.17
Area: 798
Amount: 0.021098
Amount Units: ppb v/v



Manual Integration Results

RT: 9.17
Area: 1051
Amount: 0.027787
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

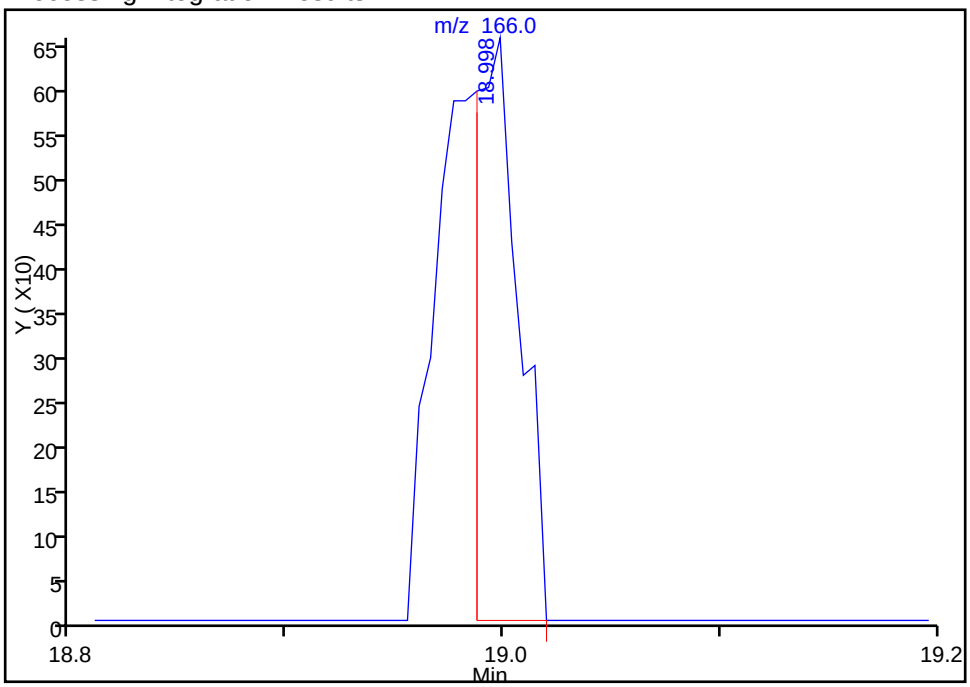
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

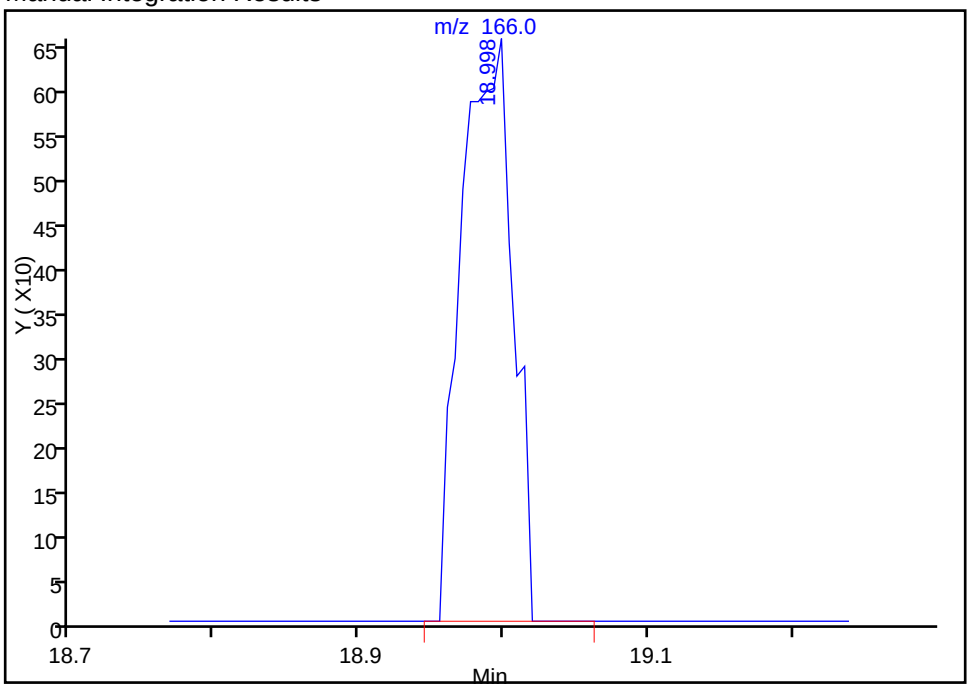
Processing Integration Results

RT: 19.00
Area: 912
Amount: 0.018233
Amount Units: ppb v/v



Manual Integration Results

RT: 19.00
Area: 1616
Amount: 0.032308
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

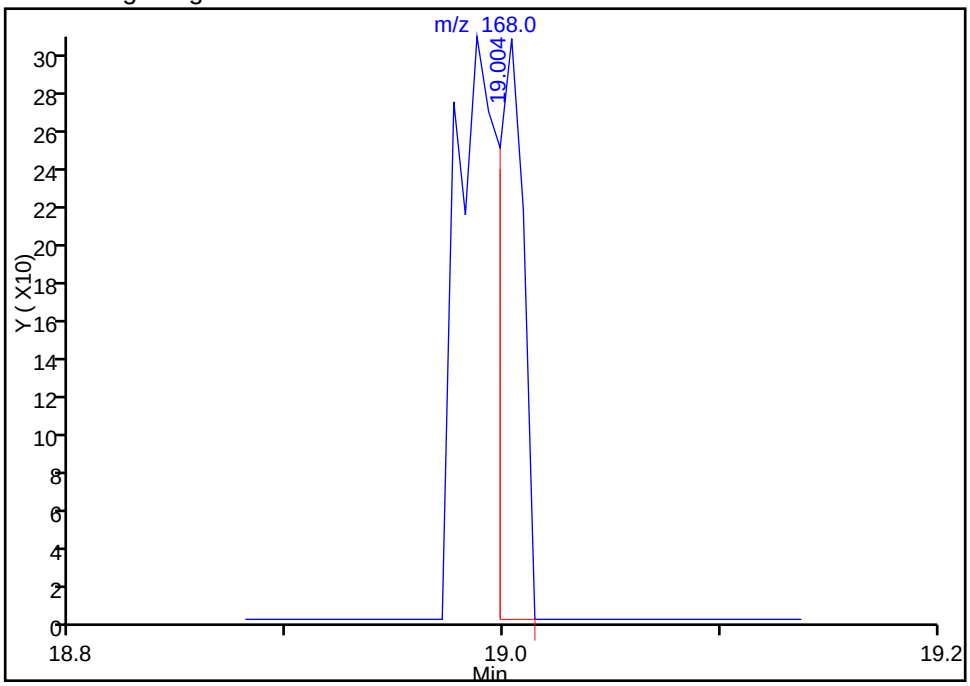
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

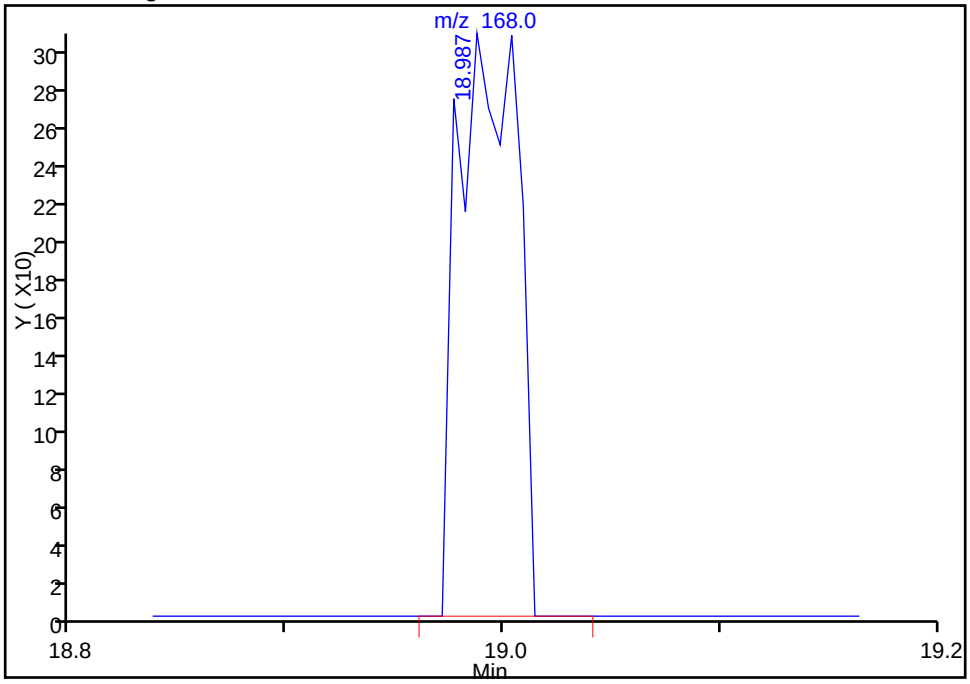
Processing Integration Results

RT: 19.00
Area: 245
Amount: 0.018233
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 582
Amount: 0.032308
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

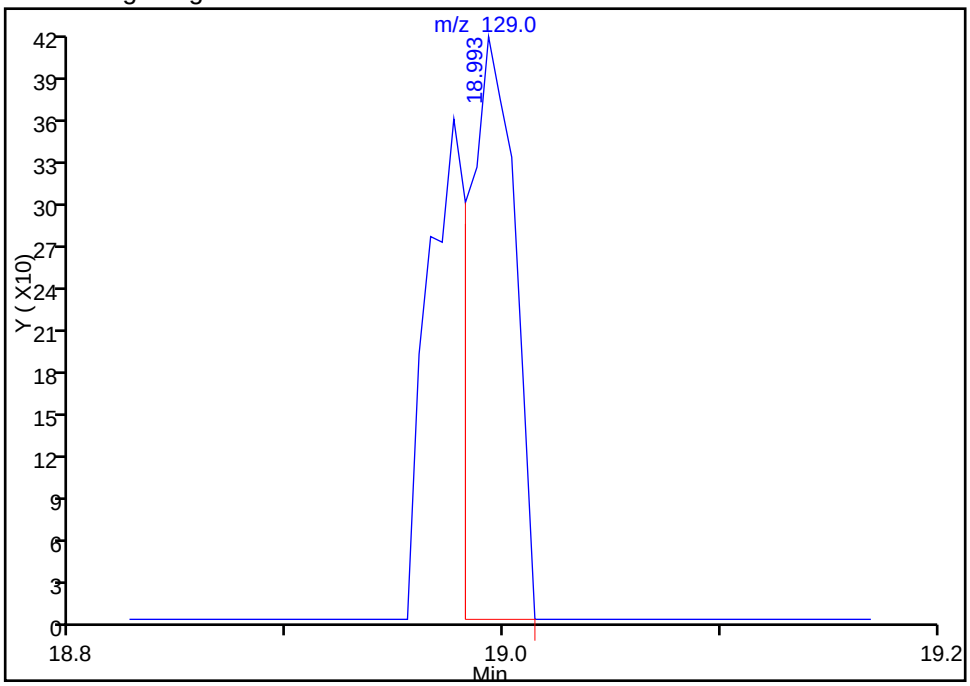
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_006.d				
Injection Date:	30-Sep-2015 15:15:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-4	Lab Sample ID:	200-29972-4		
Client ID:	FR-IA02-092315				
Operator ID:	pad	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

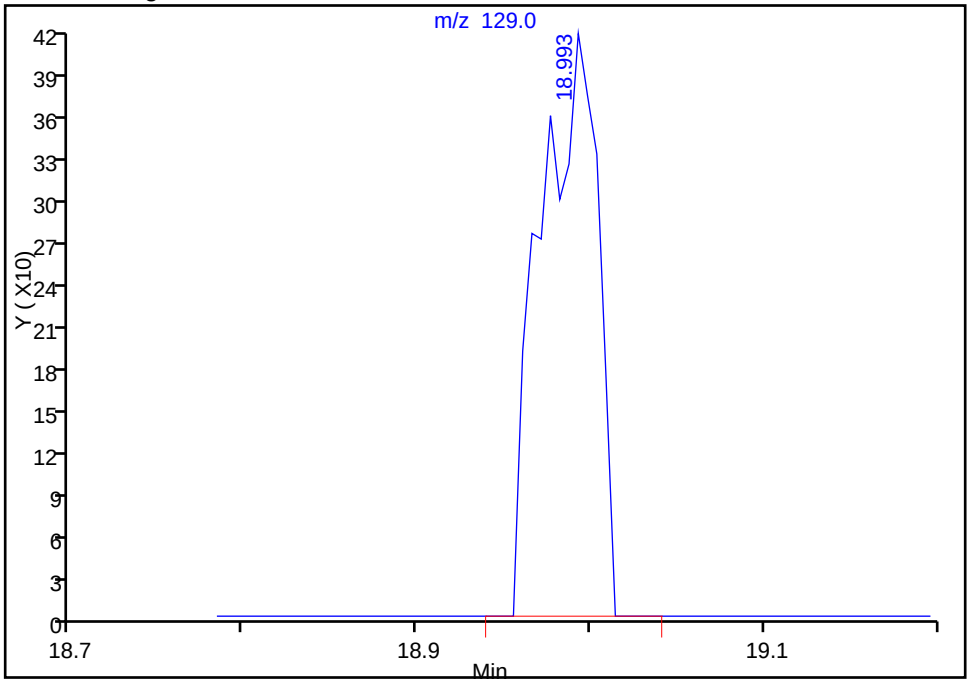
Processing Integration Results

RT: 18.99
Area: 605
Amount: 0.018233
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 950
Amount: 0.032308
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:01:45
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS03-092315 Lab Sample ID: 200-29972-5

Matrix: Air Lab File ID: 16087_20.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 00:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	1.3		0.50	0.080
75-45-6	Freon 22	86.47	0.17	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.093
106-97-8	n-Butane	58.12	0.34	J	0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	4.2		0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	4.3	J	5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.27	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.44	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.22		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.75		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	9.6		0.20	0.046
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.12		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.055	J	0.20	0.039
71-43-2	Benzene	78.11	0.12	J	0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS03-092315 | Lab Sample ID: 200-29972-5

Matrix: Air | Lab File ID: 16087_20.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) | Date Analyzed: 10/06/2015 00:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.12	J	0.20	0.040
79-01-6	Trichloroethene	131.39	0.20		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.46	J	0.50	0.050
108-88-3	Toluene	92.14	0.48		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.054	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.068	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.25	J	0.50	0.071
95-47-6	Xylene, o-	106.17	0.092	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.34	J	0.70	0.037
100-42-5	Styrene	104.15	0.066	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS03-092315 Lab Sample ID: 200-29972-5

Matrix: Air Lab File ID: 16087_20.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 00:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.068	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS03-092315 | Lab Sample ID: 200-29972-5

Matrix: Air | Lab File ID: 16087_20.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) | Date Analyzed: 10/06/2015 00:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	6.2		2.5	0.40
75-45-6	Freon 22	86.47	0.59	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.19
106-97-8	n-Butane	58.12	0.81	J	1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	24		1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	10	J	12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	0.84	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	0.79		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	2.2		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	52		1.1	0.25
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.74		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	J	0.93	0.18
71-43-2	Benzene	78.11	0.40	J	0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS03-092315 Lab Sample ID: 200-29972-5

Matrix: Air Lab File ID: 16087_20.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 00:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.48	J	0.82	0.16
79-01-6	Trichloroethene	131.39	1.1		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	1.9	J	2.0	0.20
108-88-3	Toluene	92.14	1.8		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.37	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.30	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	1.1	J	2.2	0.31
95-47-6	Xylene, o-	106.17	0.40	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	1.5	J	3.0	0.16
100-42-5	Styrene	104.15	0.28	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS03-092315 Lab Sample ID: 200-29972-5

Matrix: Air Lab File ID: 16087_20.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 00:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	0.36	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D
Lims ID: 200-29972-A-5 Lab Sample ID: 200-29972-5
Client ID: FR-SS03-092315
Sample Type: Client
Inject. Date: 06-Oct-2015 00:16:30 ALS Bottle#: 1 Worklist Smp#: 20
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-020
Misc. Info.: 29972-5
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 10:24:18 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 10:24:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.172	3.172	0.000	99	35990	1.26	
3 Chlorodifluoromethane	51	3.226	3.226	0.000	94	2321	0.1681	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50	3.579	3.579	0.000	86	460	0.0573	
6 Butane	43	3.760	3.771	-0.011	90	4507	0.3415	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.253	5.259	-0.006	98	132919	4.22	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43	6.639	6.612	0.027	89	54733	4.26	
22 Carbon disulfide	76	6.740	6.746	-0.006	97	8051	0.2689	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.414	7.414	0.000	82	4792	0.4429	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.217	8.212	0.005	91	3606	0.2244	
33 1,1-Dichloroethane	63		8.709				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72	9.955	9.881	0.074	98	5118	0.7506	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.276	10.282	-0.006	77	146788	10.0	
39 Tetrahydrofuran	42	10.405	10.298	0.107	84	11065	0.9613	
41 Chloroform	83		10.410				ND	
42 Cyclohexane	84		10.651				ND	
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	96	283005	9.61	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117	10.934	10.929	0.005	91	3625	0.1181	
	45 Isooctane	57	11.373	11.368	0.005	59	3687	0.0546	
	46 Benzene	78	11.405	11.411	-0.006	92	5890	0.1249	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43	11.758	11.753	0.005	29	2654	0.1166	M
*	50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	91	807946	10.0	
	52 Trichloroethene	95	12.743	12.743	0.000	63	4761	0.2003	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83		13.904				ND	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43	15.246	15.193	0.053	91	14244	0.4619	
	62 Toluene	92	15.466	15.476	-0.010	94	20395	0.4850	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.578	16.578	-0.001	22	2280	0.0544	M
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.440	18.446	-0.006	81	825915	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91	18.659	18.659	0.010	94	6176	0.0681	M
	77 m-Xylene & p-Xylene	106	18.895	18.906	-0.011	98	9556	0.2499	
	78 o-Xylene	106	19.719	19.719	0.000	94	3492	0.0924	
	79 Styrene	104	19.767	19.767	0.000	94	3915	0.0664	
S	80 Xylenes, Total	106				0		0.3423	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105		20.355				ND	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91		21.035				ND	
	89 4-Ethyltoluene	105	21.217	21.217	0.000	95	1073	0.009850	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105	21.313	21.318	-0.005	90	1122	0.0125	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105	21.875	21.880	-0.005	92	3274	0.0363	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119	22.297	22.297	0.000	90	870	0.007540	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91	22.875	22.886	-0.011	50	1142	0.0118	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128	26.192	26.197	-0.005	96	7883	0.0679	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

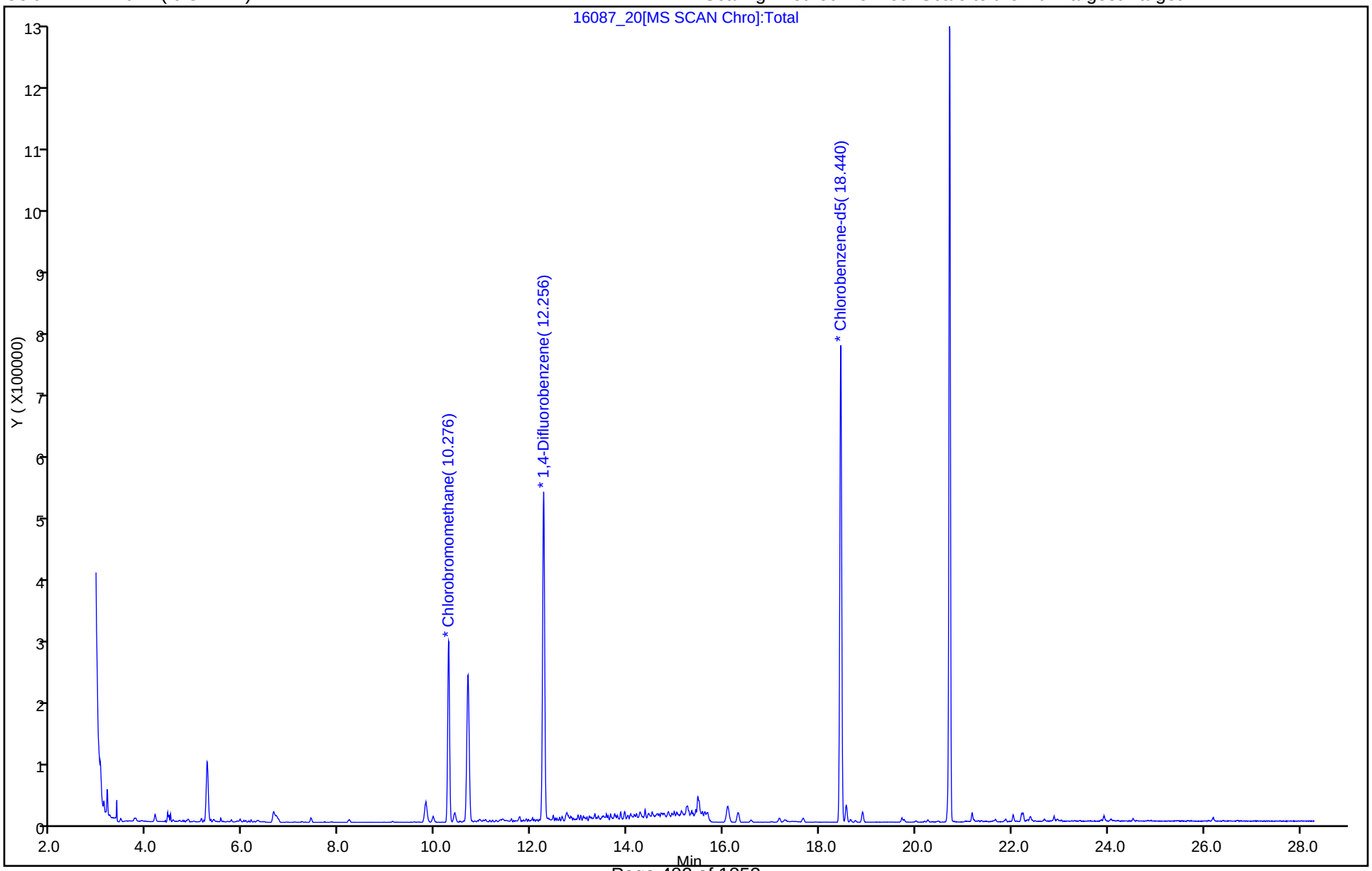
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5	Worklist Smp#:	20
Client ID:	FR-SS03-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



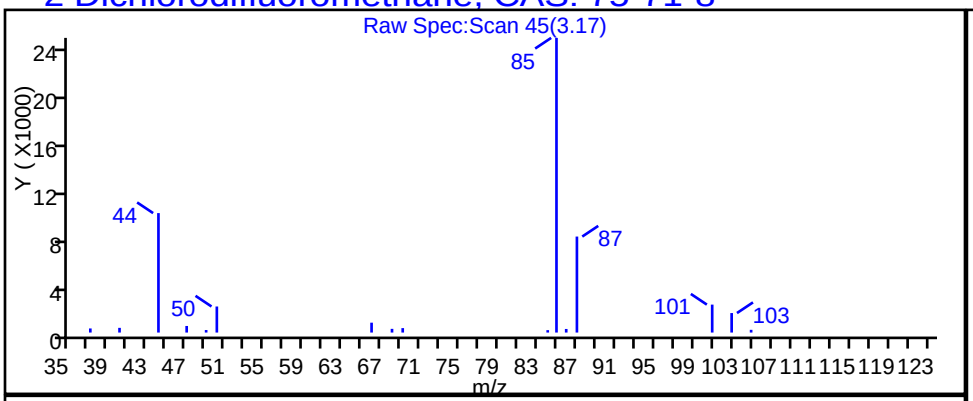
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

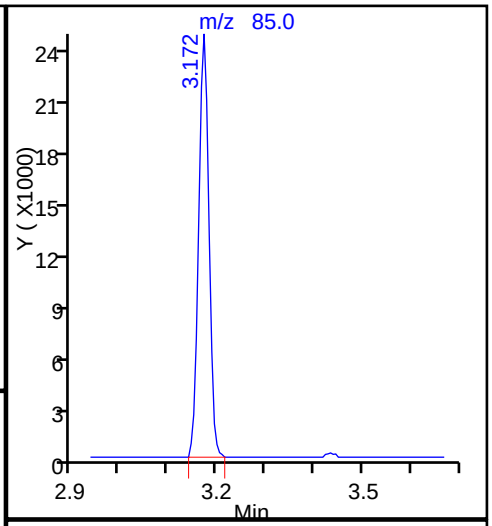
TestAmerica Burlington

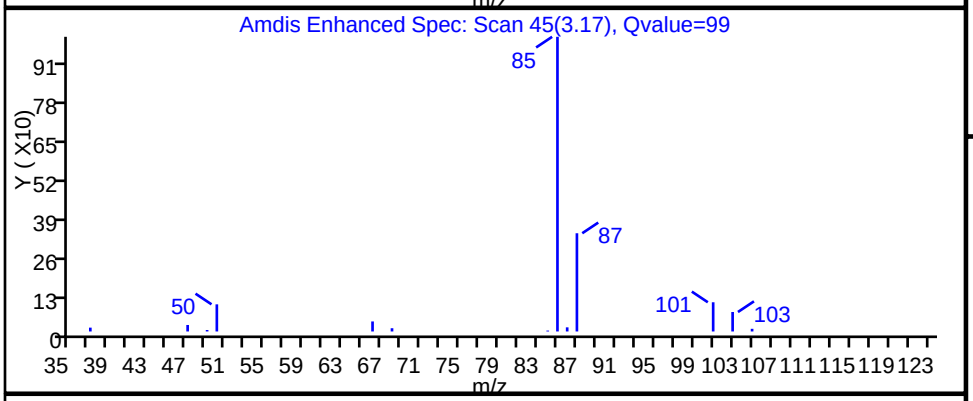
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

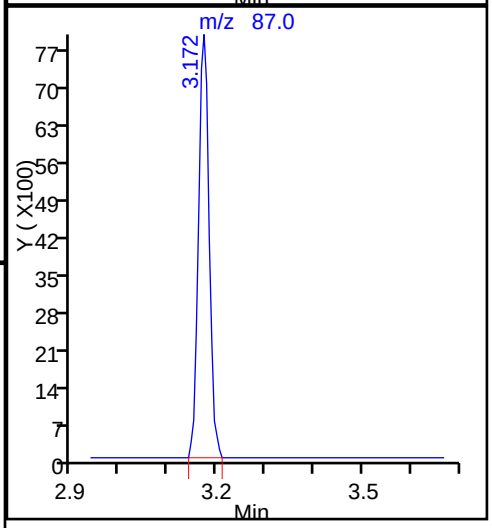
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

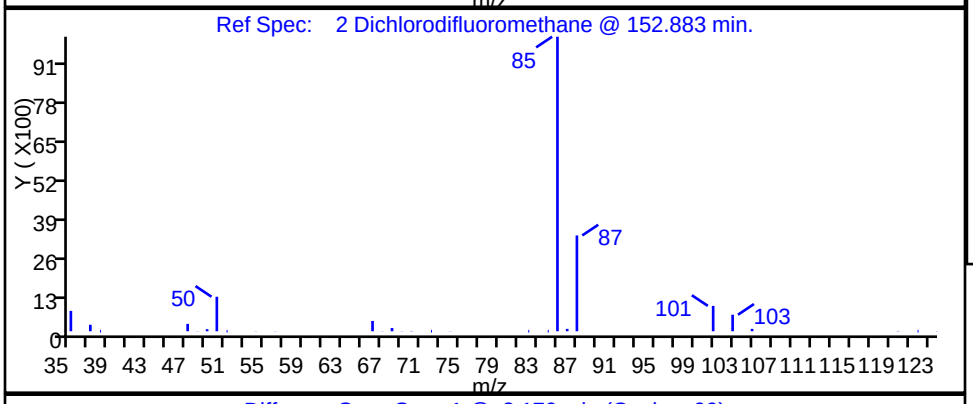
2 Dichlorodifluoromethane, CAS: 75-71-8

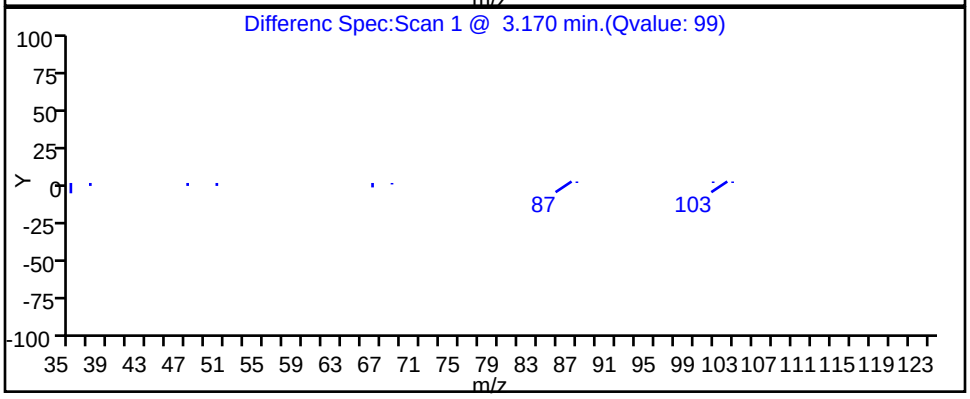












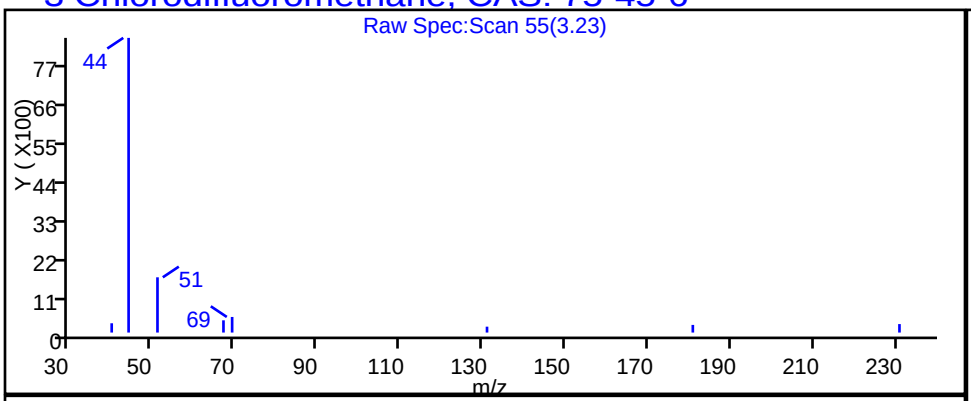
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

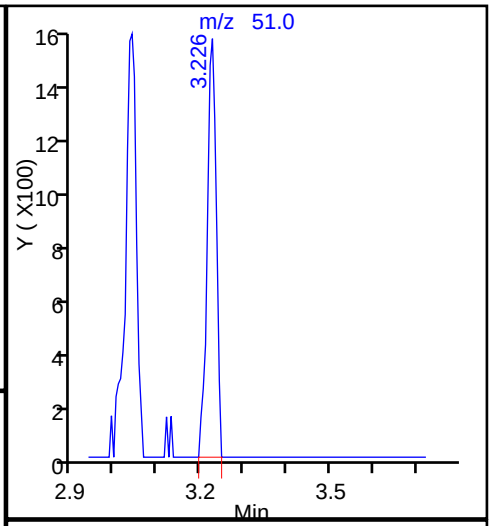
TestAmerica Burlington

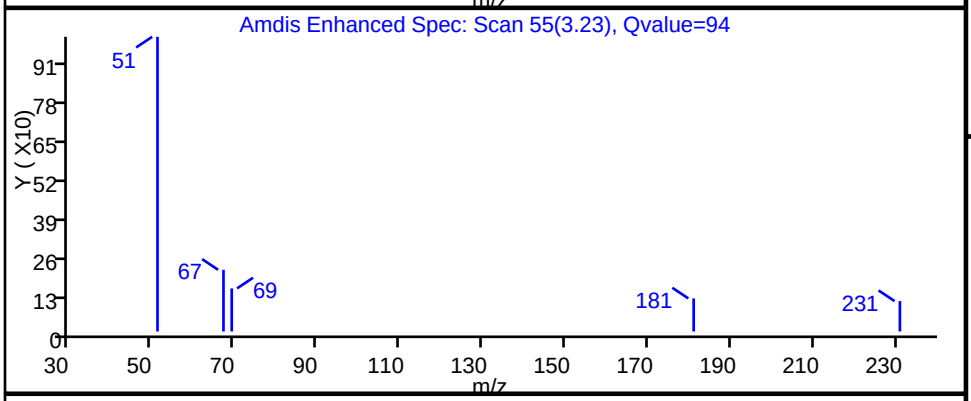
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

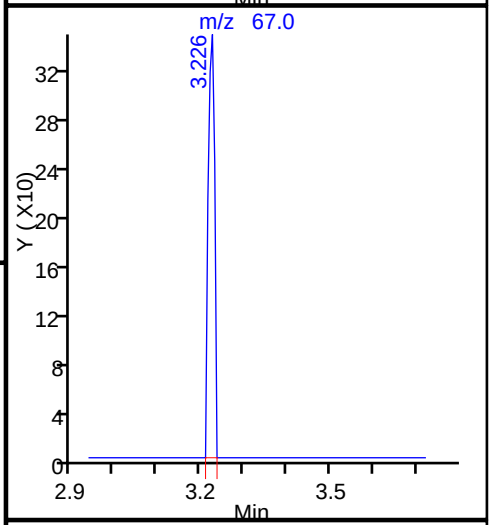
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

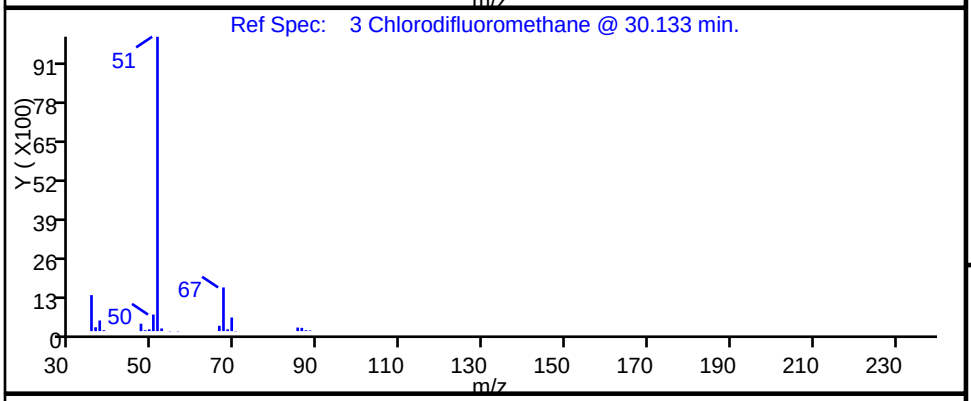
3 Chlorodifluoromethane, CAS: 75-45-6

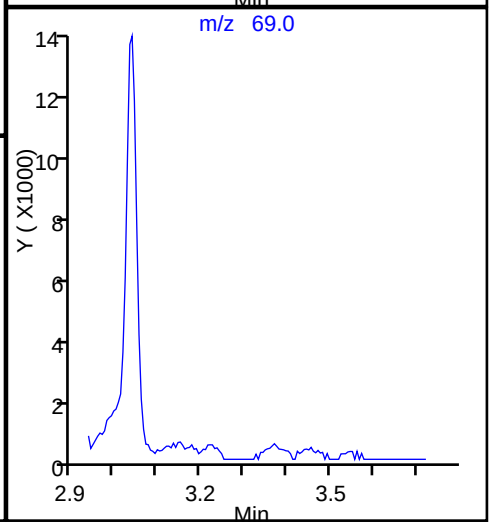


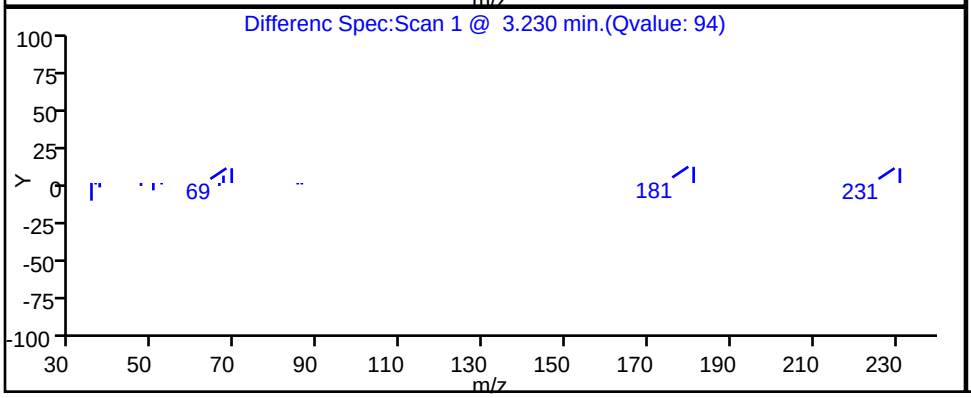












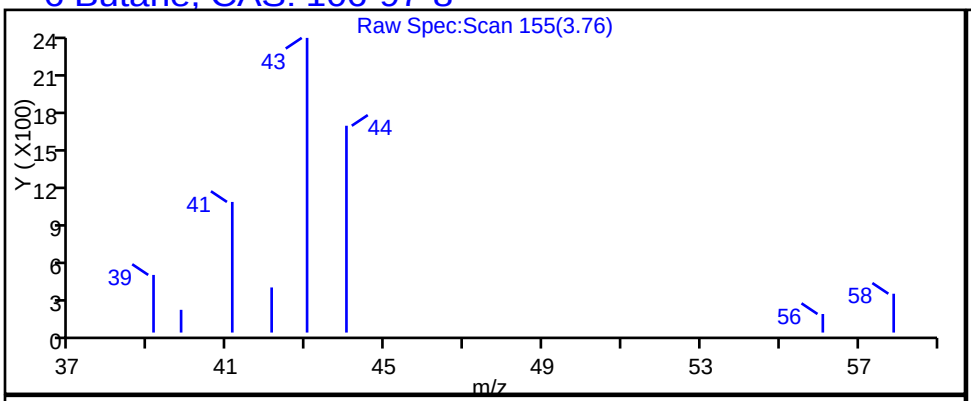
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

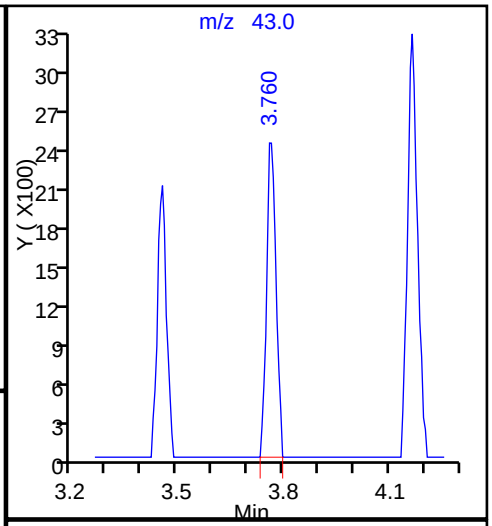
TestAmerica Burlington

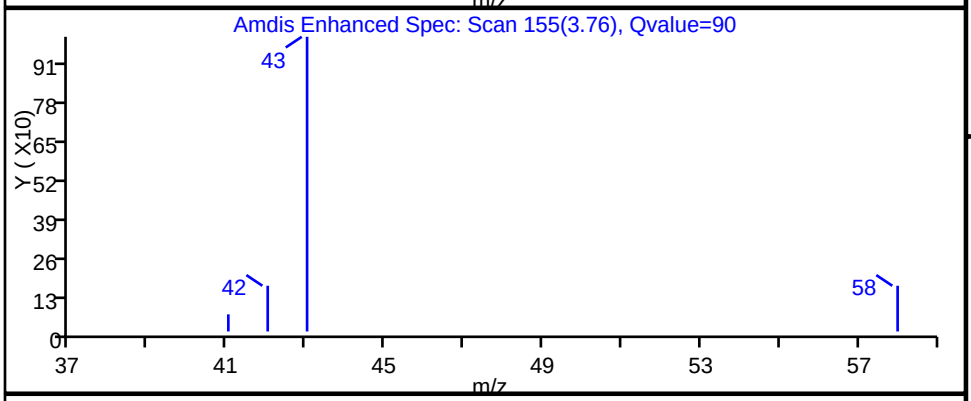
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

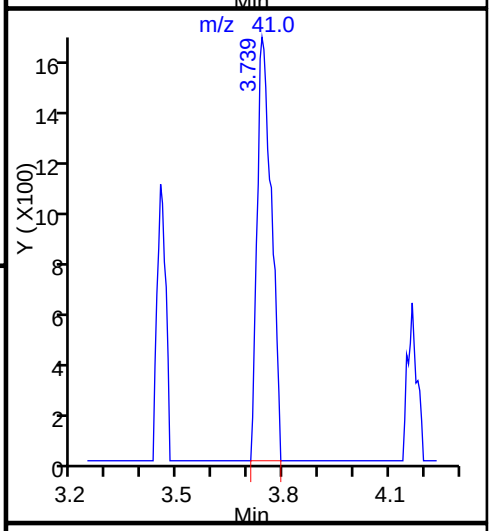
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

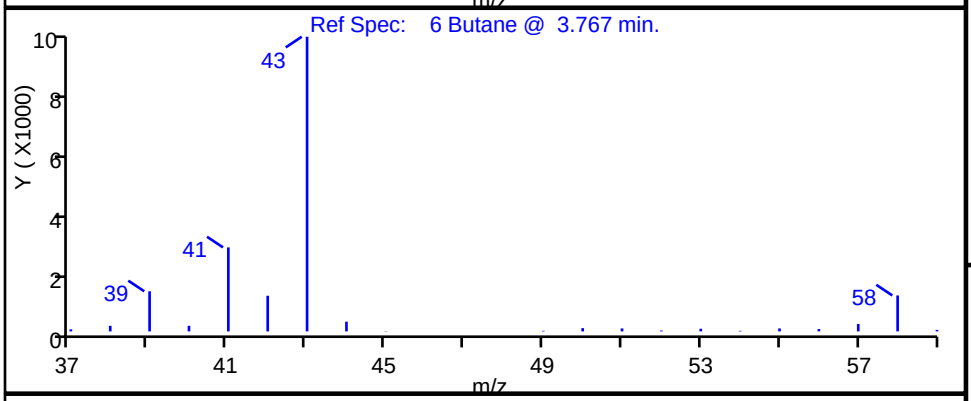
6 Butane, CAS: 106-97-8

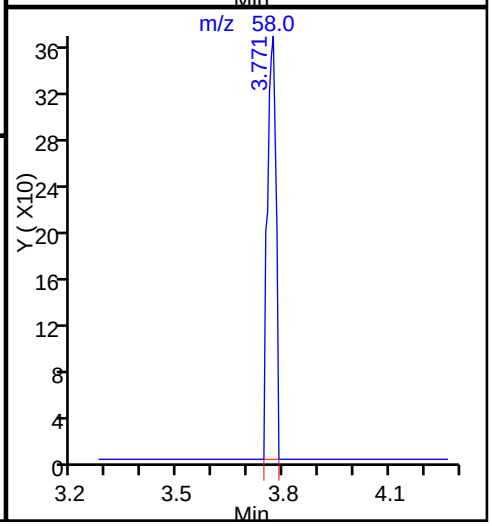


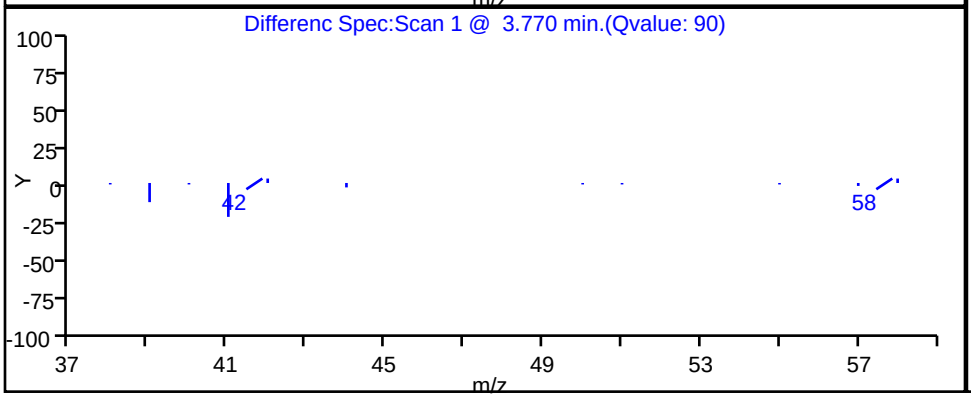












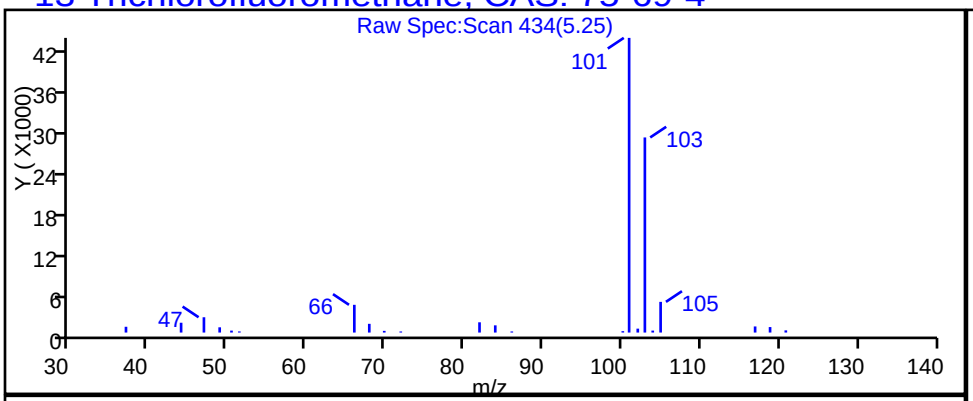
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

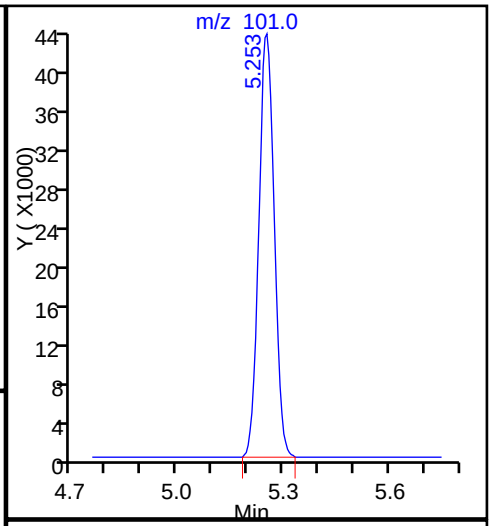
TestAmerica Burlington

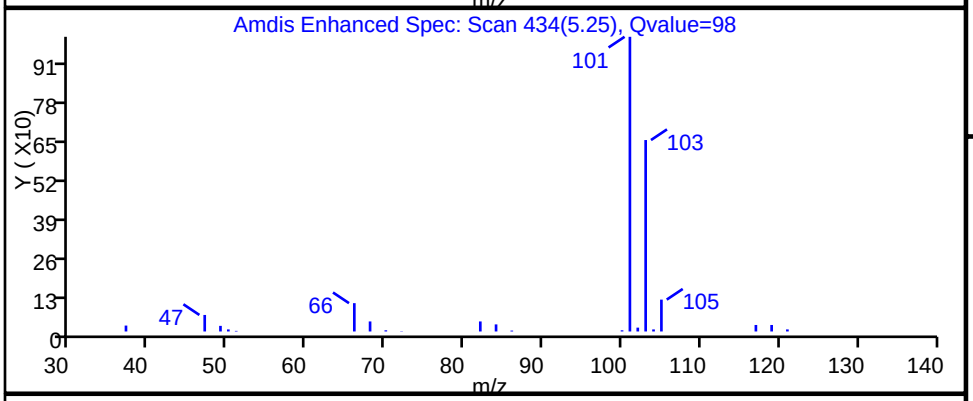
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

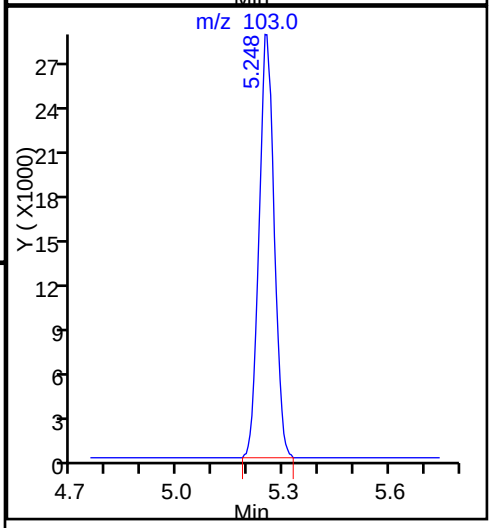
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

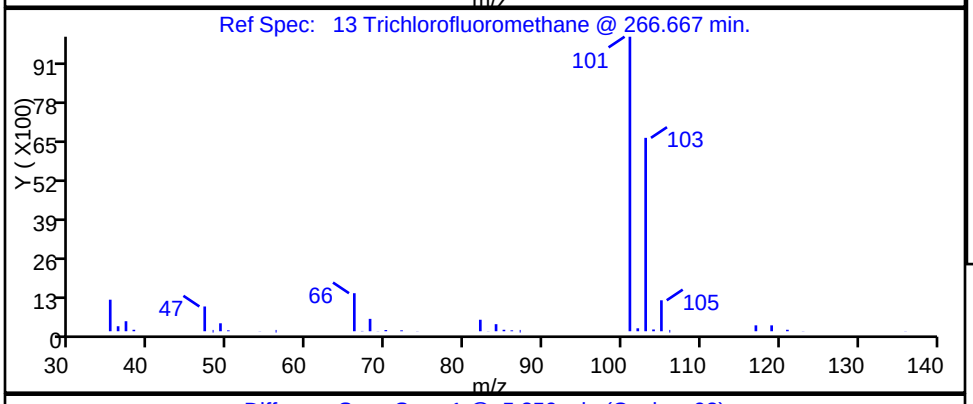
13 Trichlorofluoromethane, CAS: 75-69-4

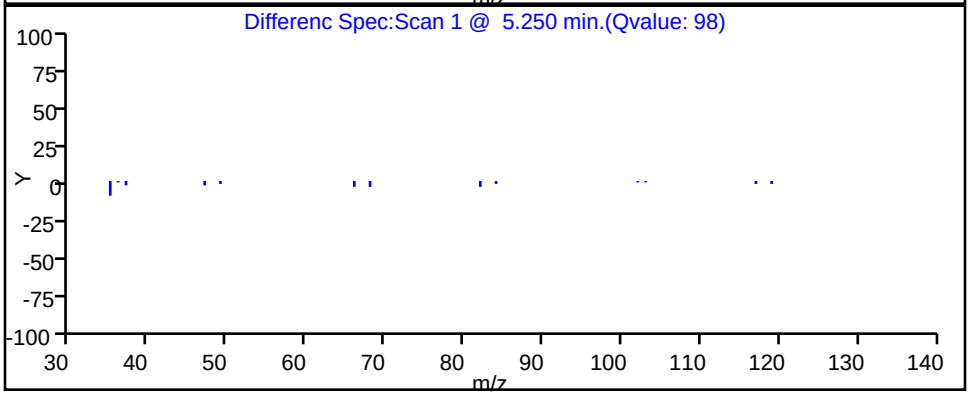












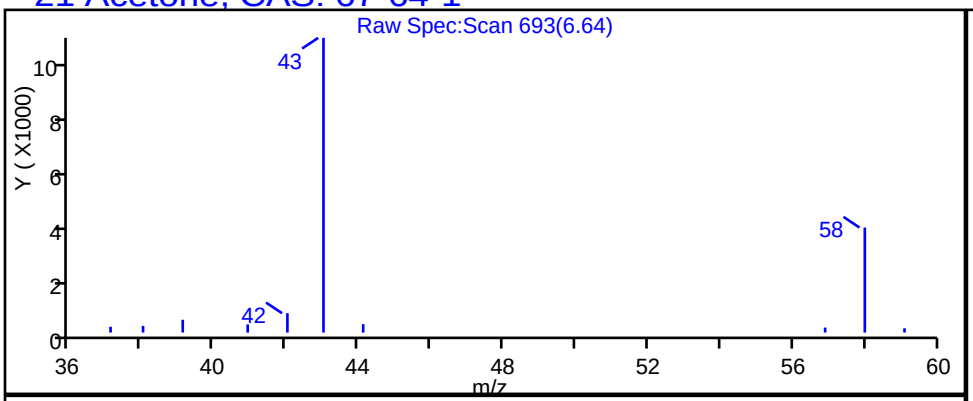
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

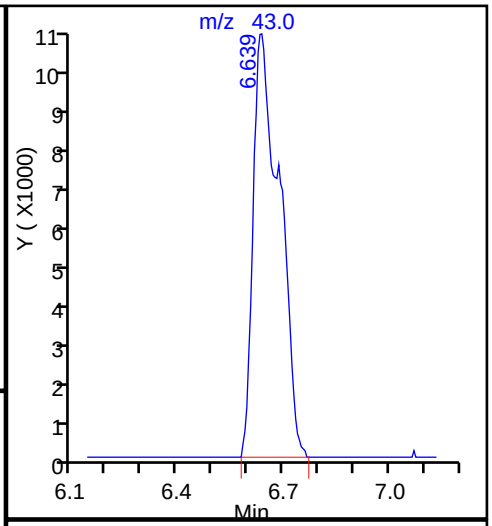
TestAmerica Burlington

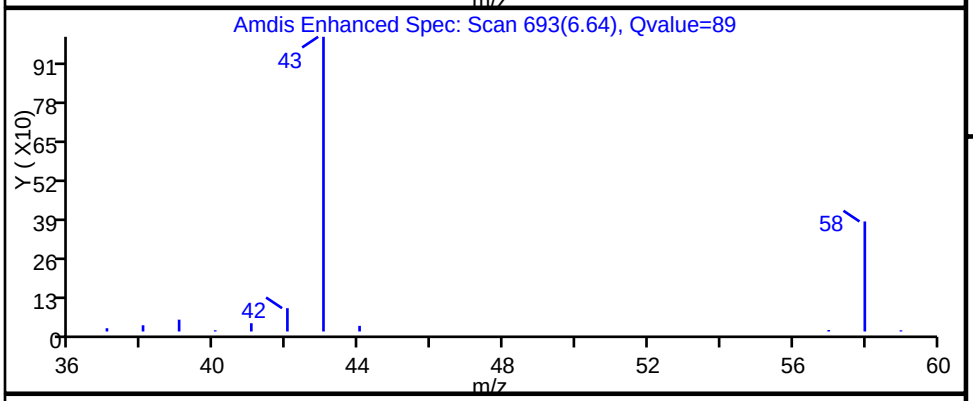
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

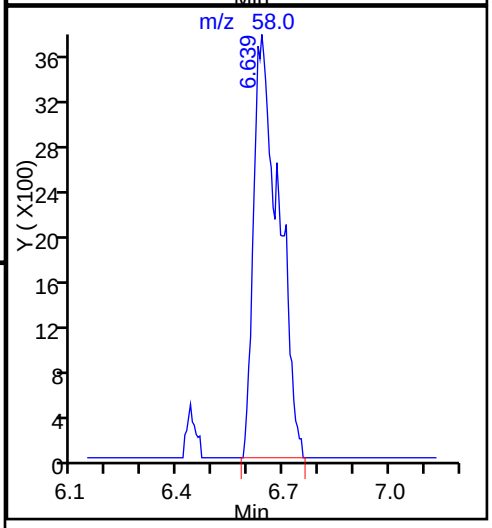
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5
Client ID:	FR-SS03-092315		
Operator ID:	wrd	ALS Bottle#:	1 Worklist Smp#: 20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

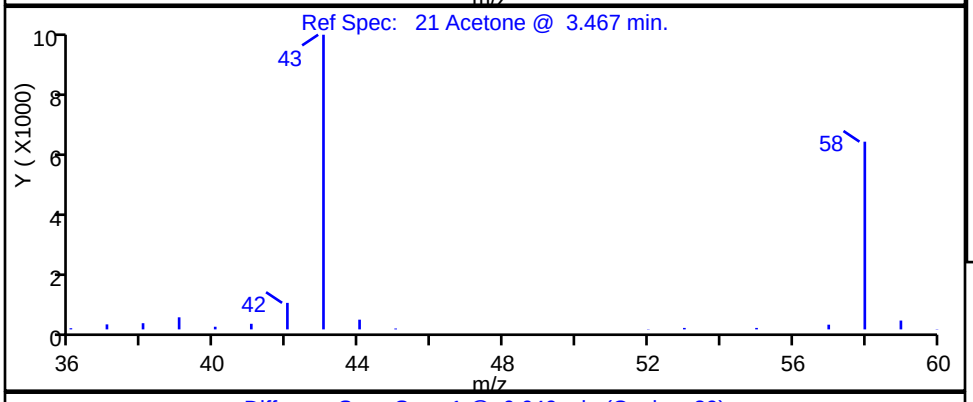
21 Acetone, CAS: 67-64-1

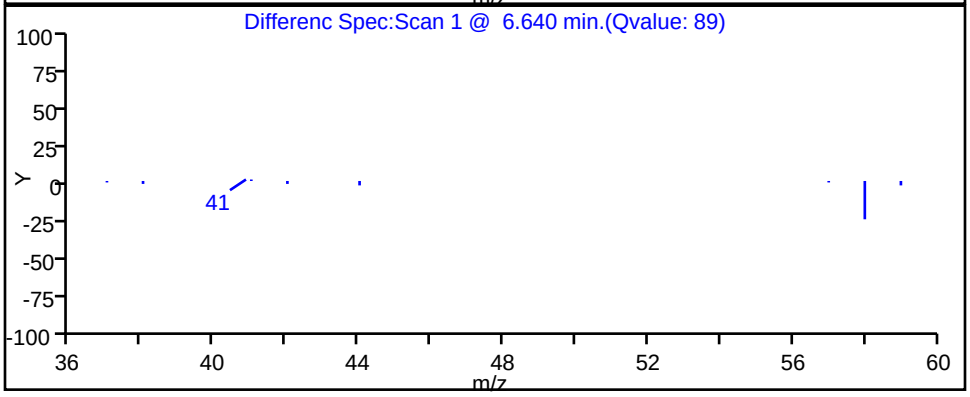












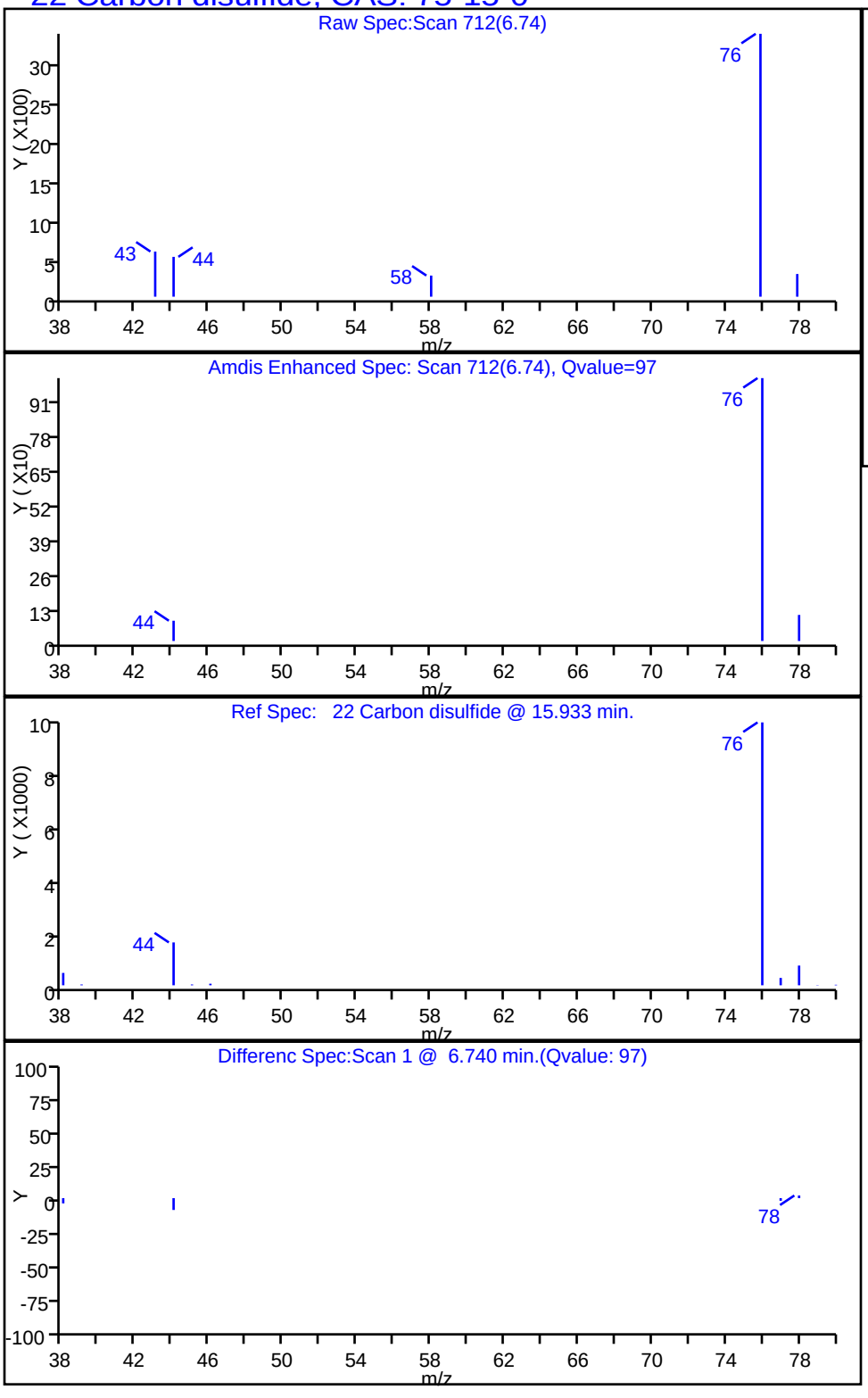
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

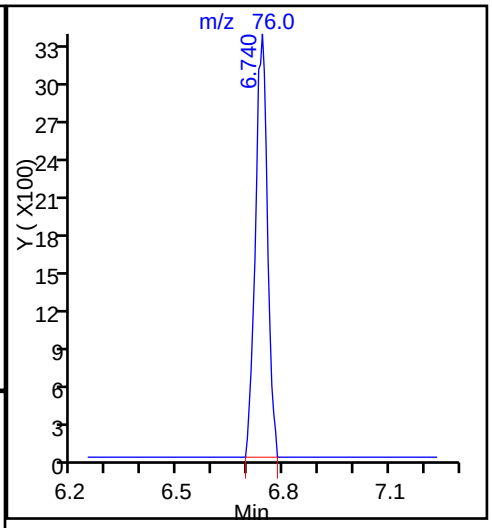
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

22 Carbon disulfide, CAS: 75-15-0





Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

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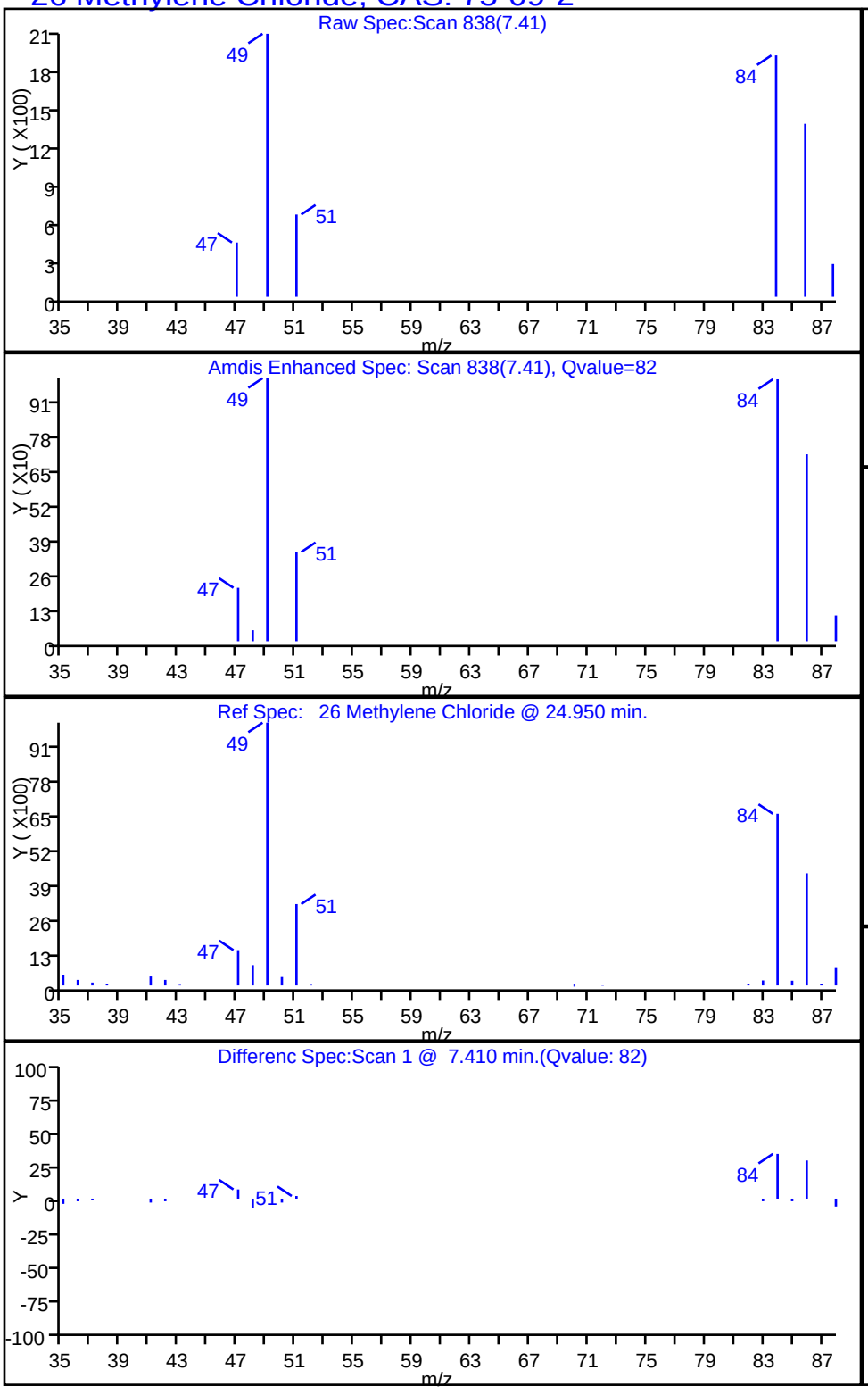
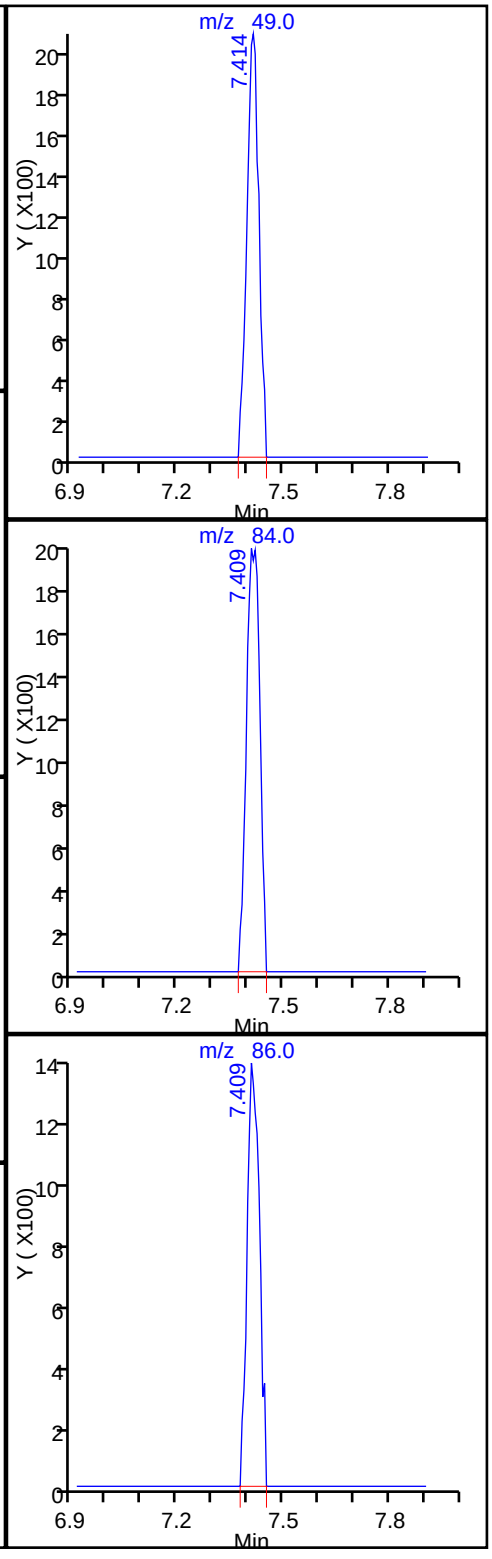
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

26 Methylene Chloride, CAS: 75-09-2



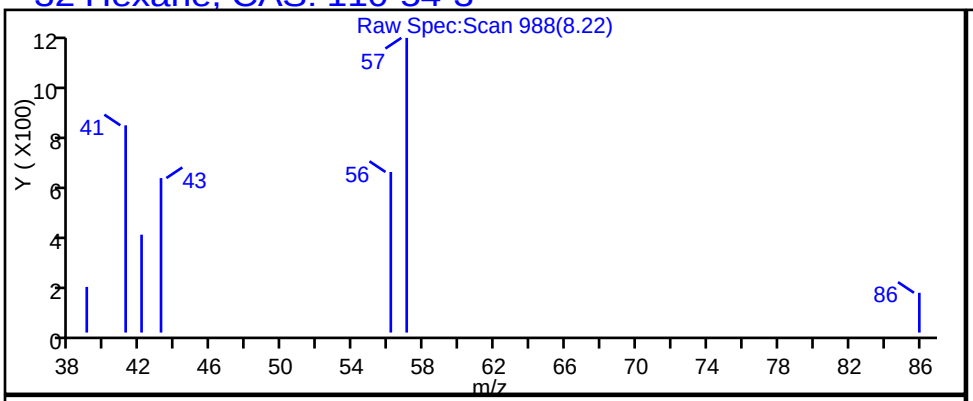


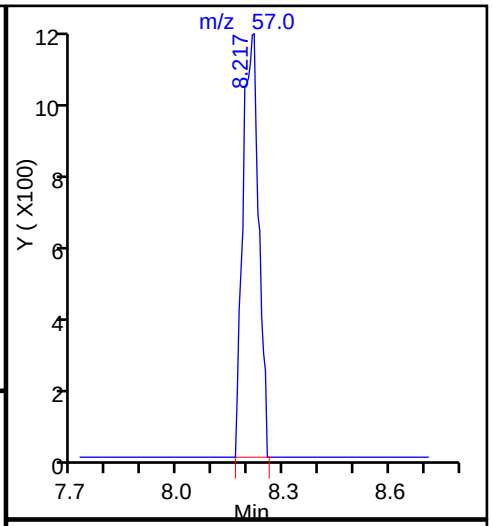
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

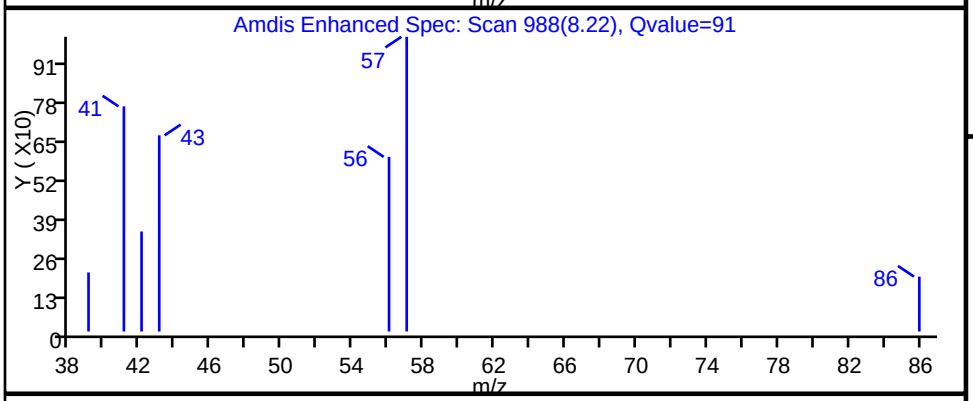
TestAmerica Burlington

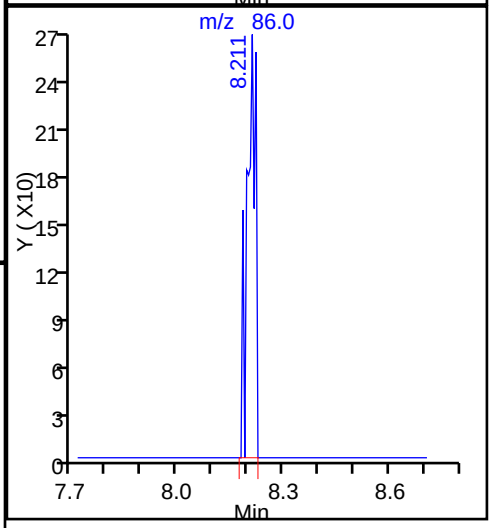
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

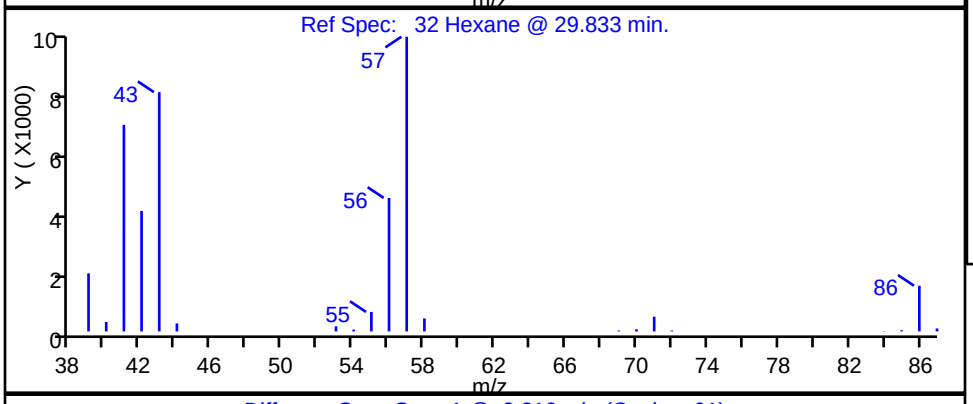
32 Hexane, CAS: 110-54-3

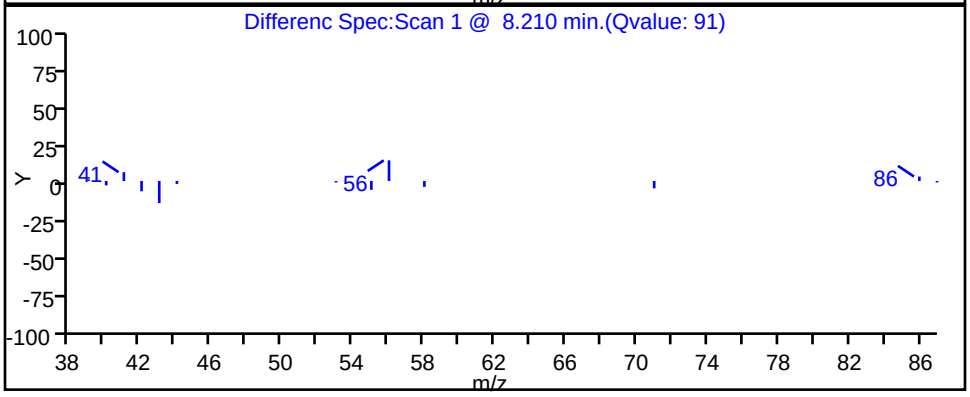












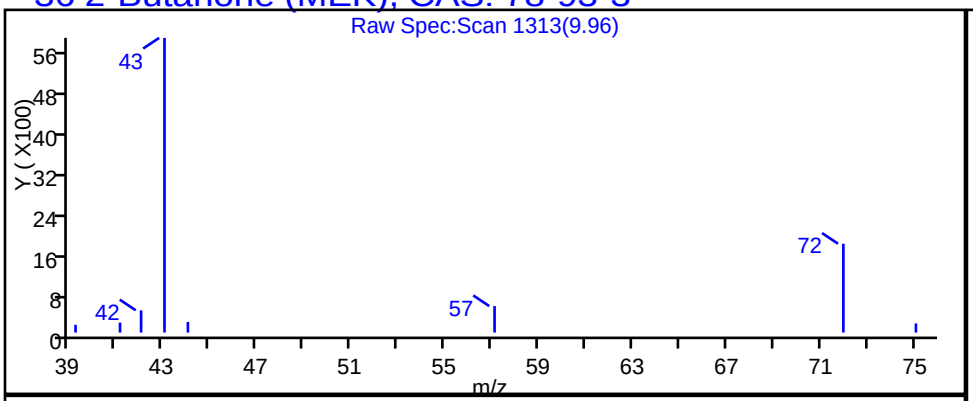
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

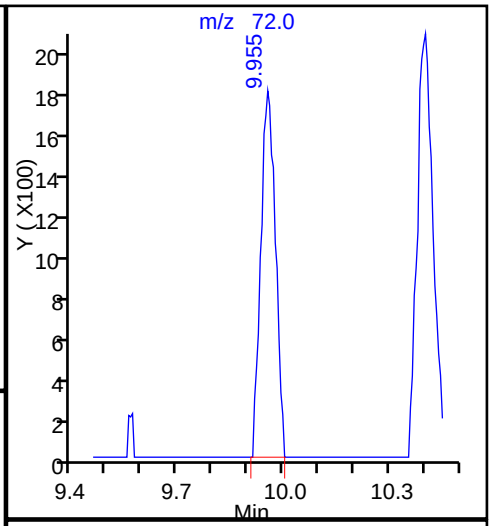
TestAmerica Burlington

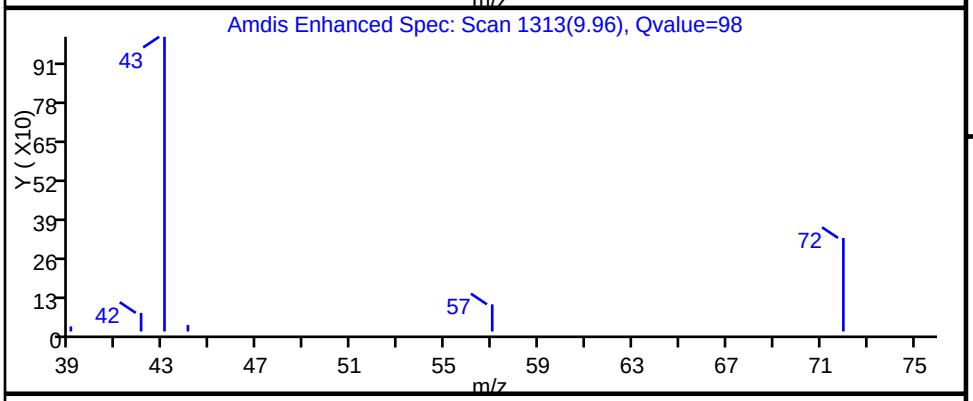
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

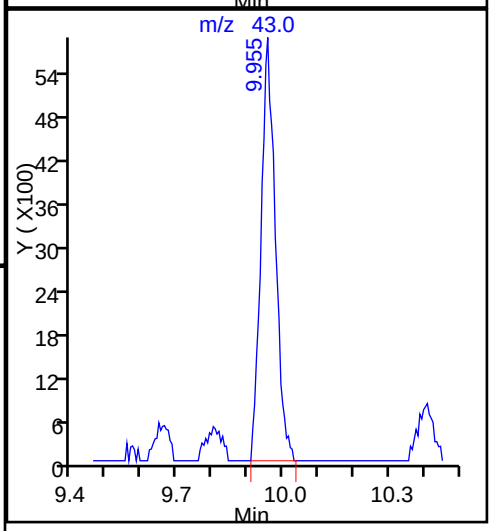
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

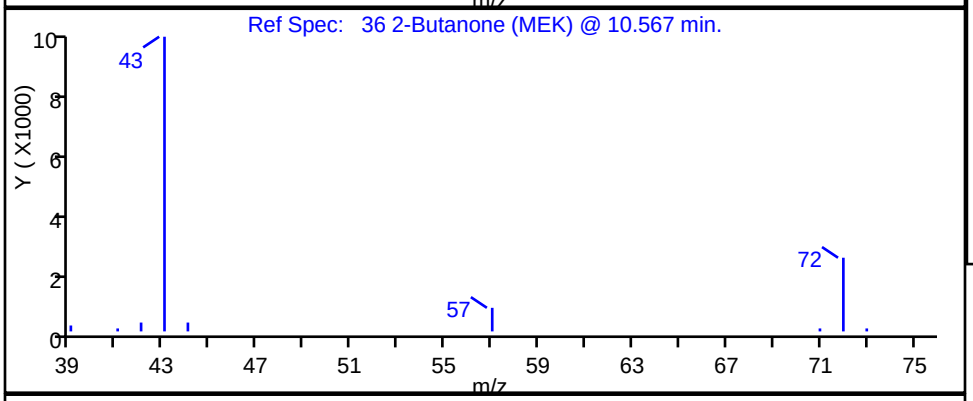
36 2-Butanone (MEK), CAS: 78-93-3

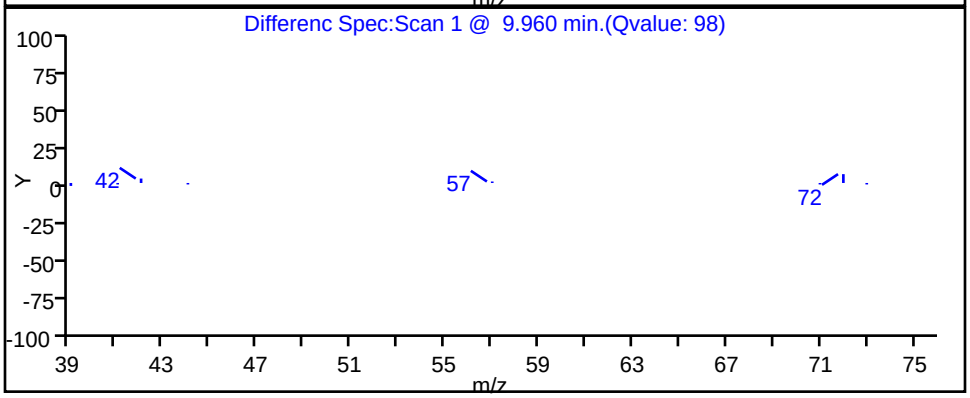












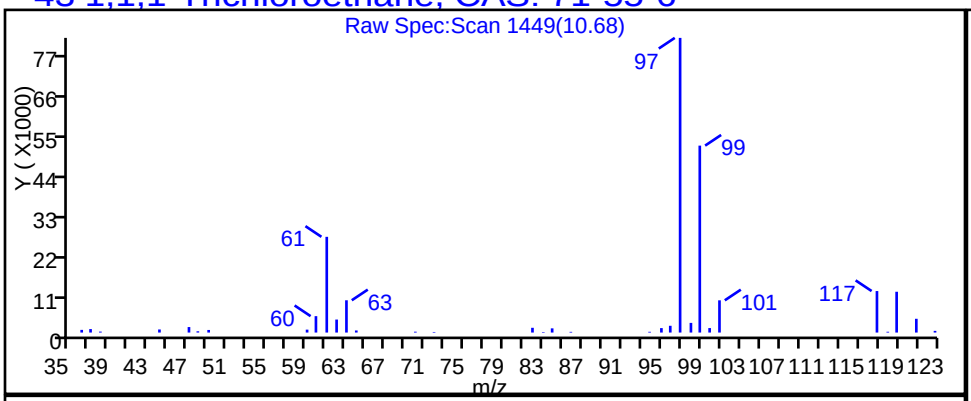
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

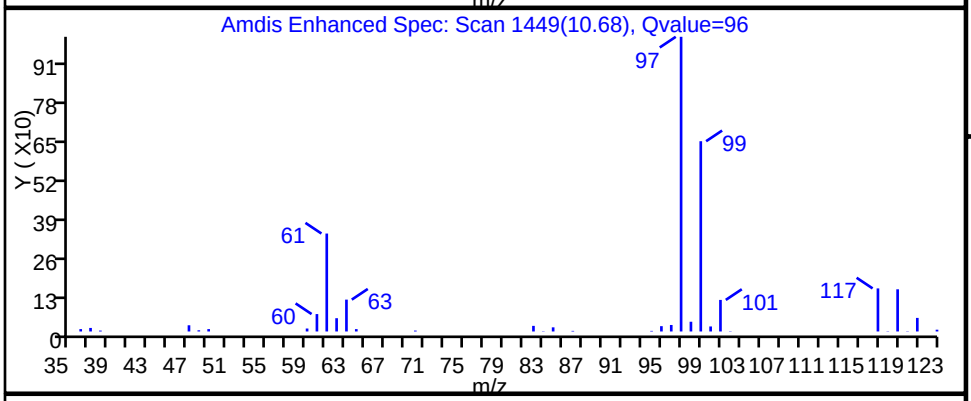
TestAmerica Burlington

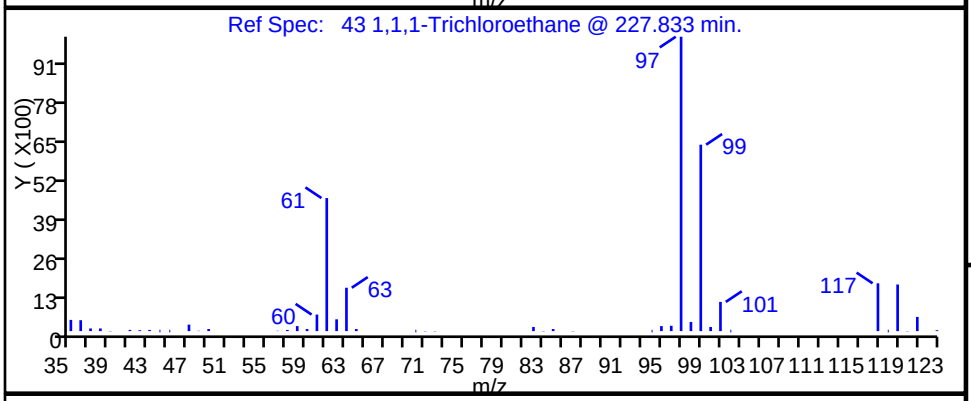
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

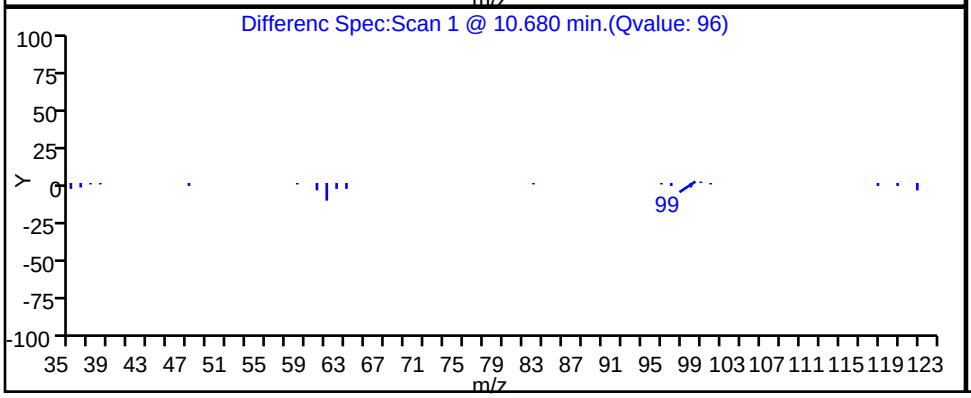
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

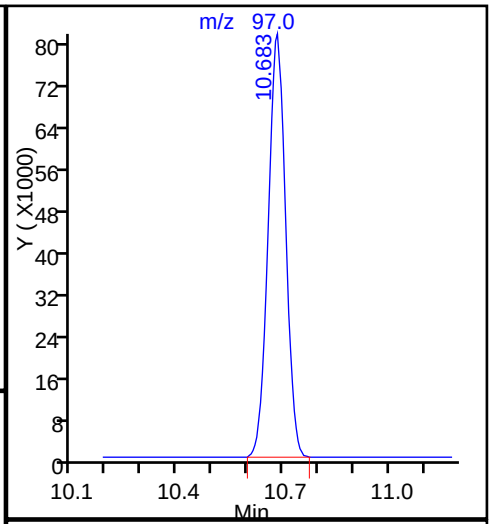
43 1,1,1-Trichloroethane, CAS: 71-55-6

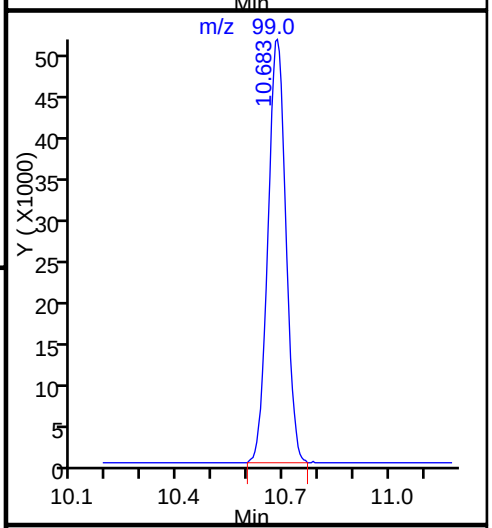


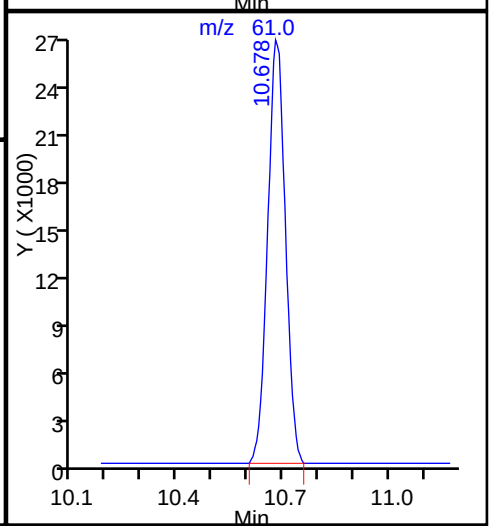












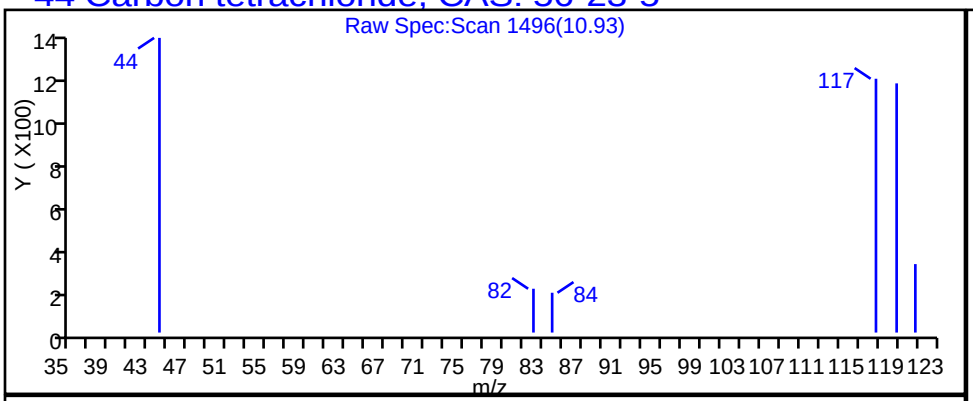
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

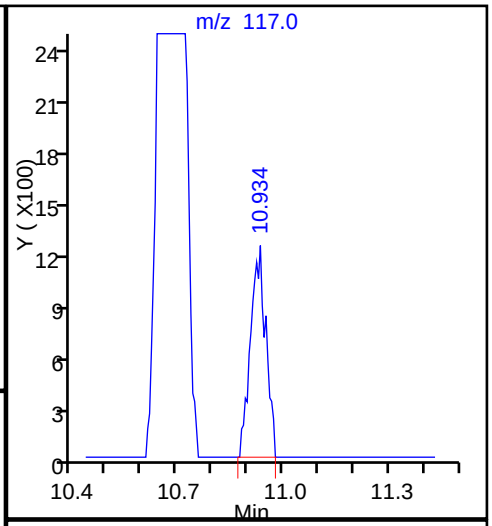
TestAmerica Burlington

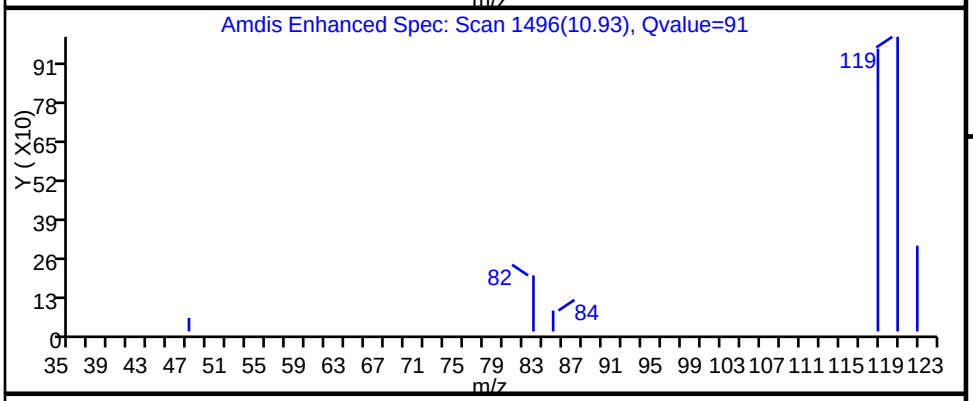
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

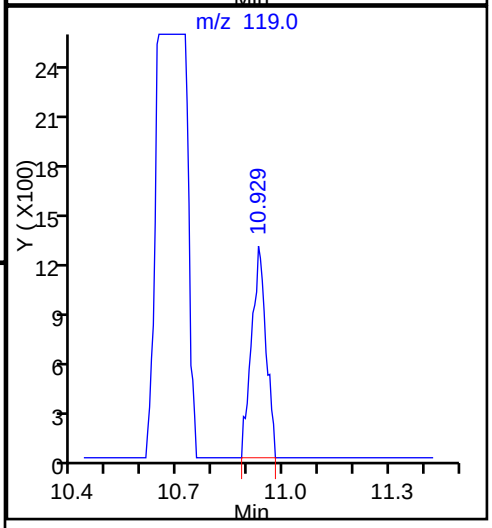
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

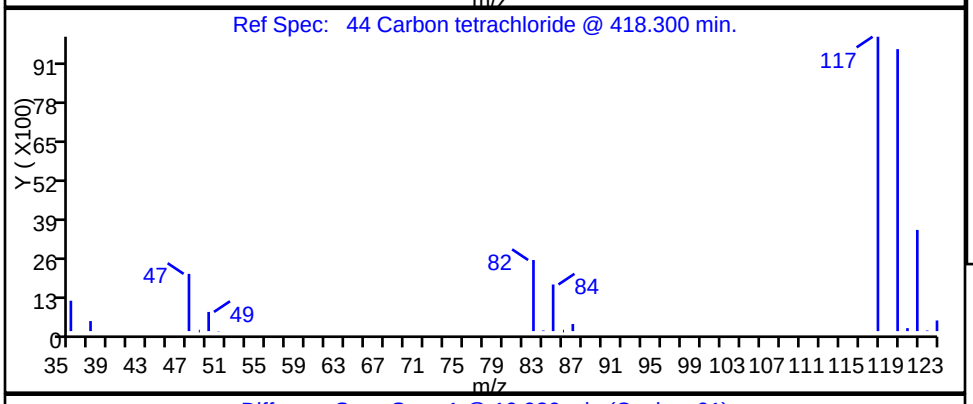
44 Carbon tetrachloride, CAS: 56-23-5

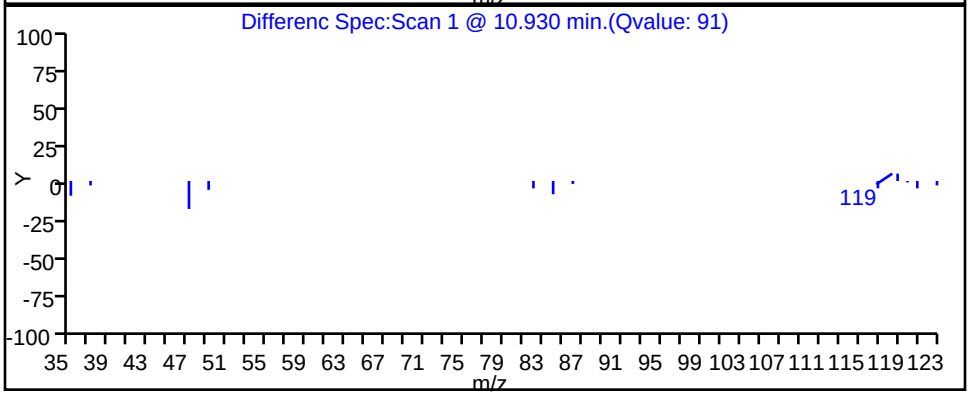










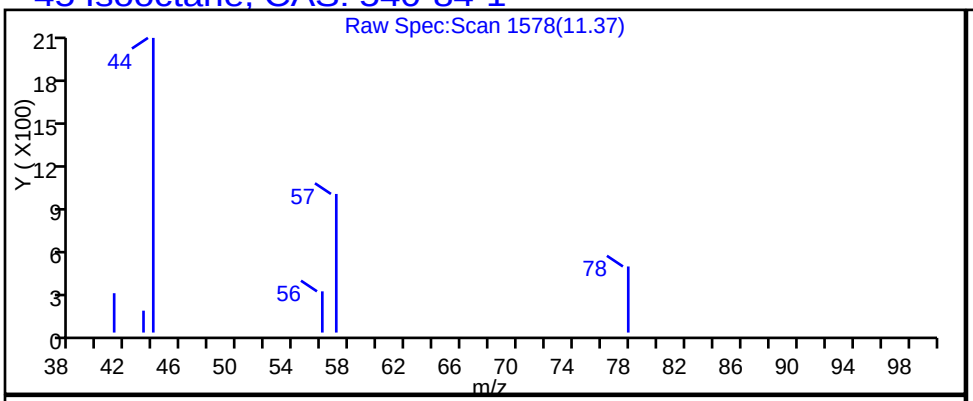


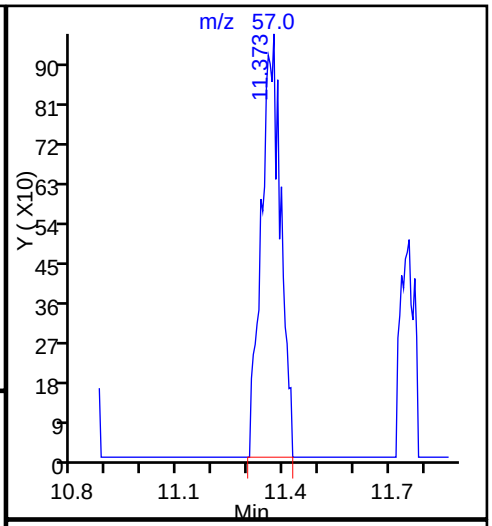
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

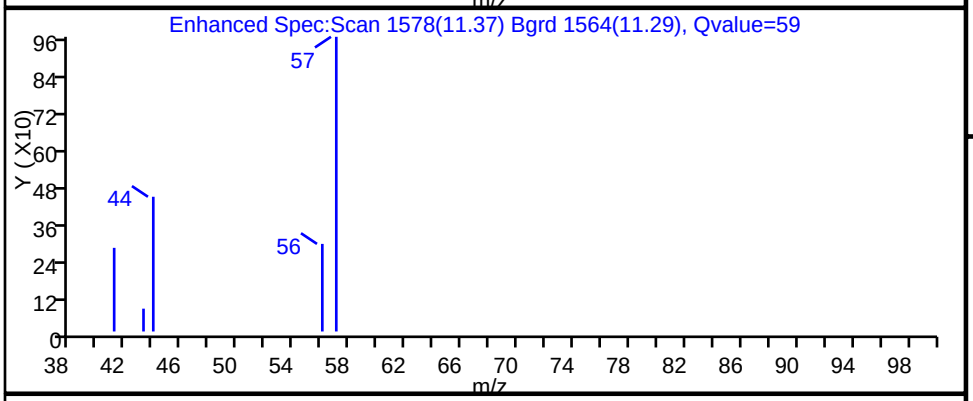
TestAmerica Burlington

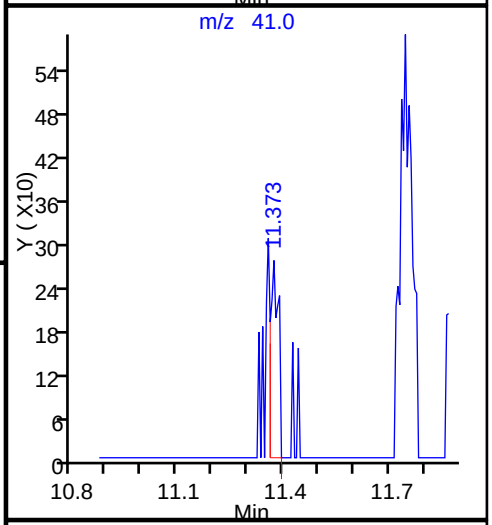
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

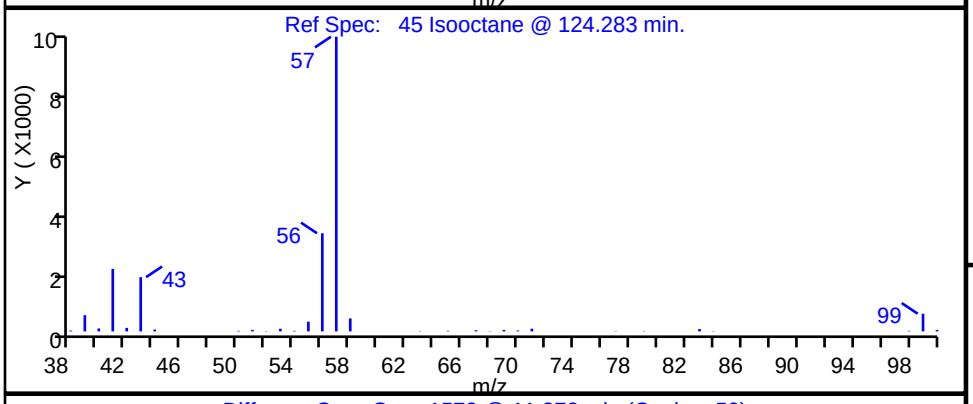
45 Isooctane, CAS: 540-84-1

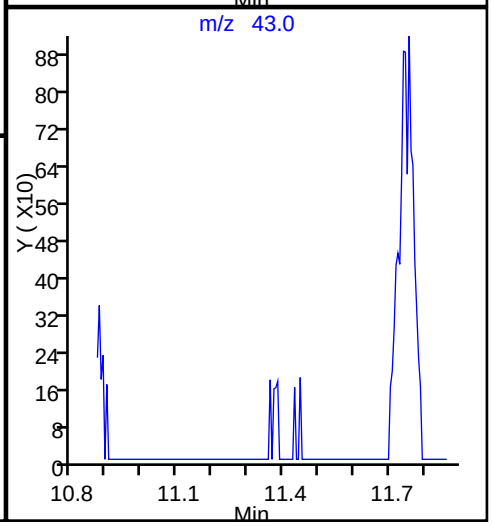


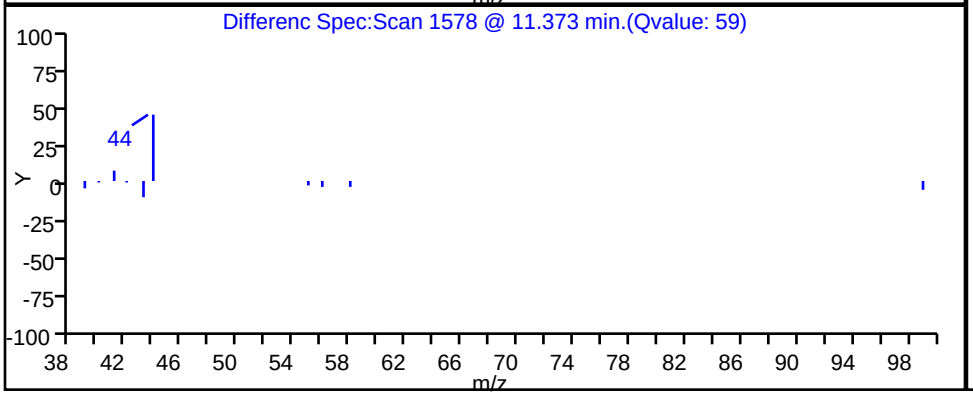












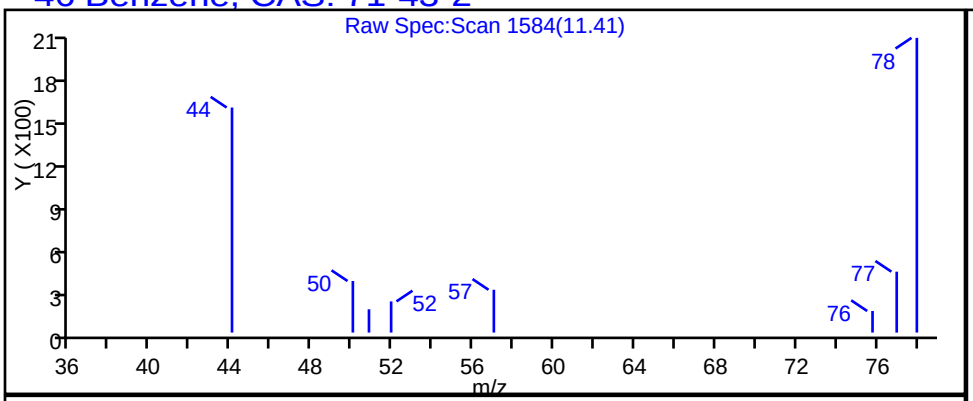
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

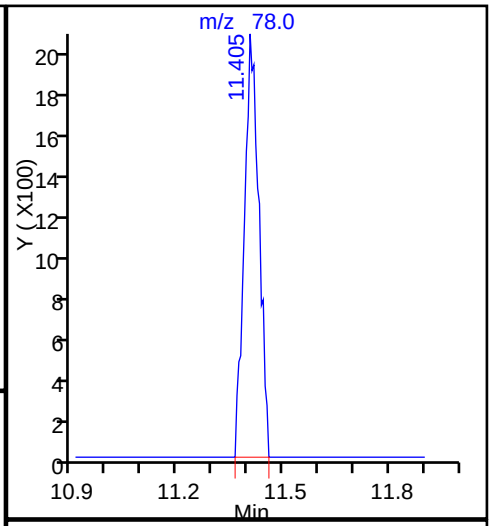
TestAmerica Burlington

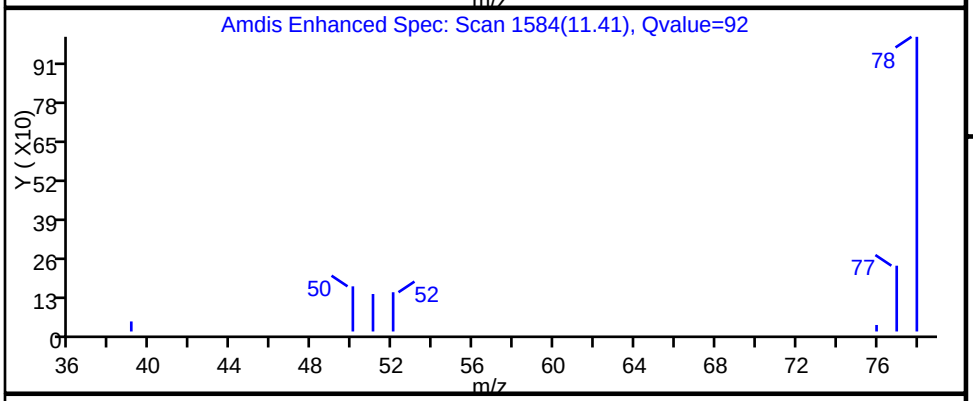
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

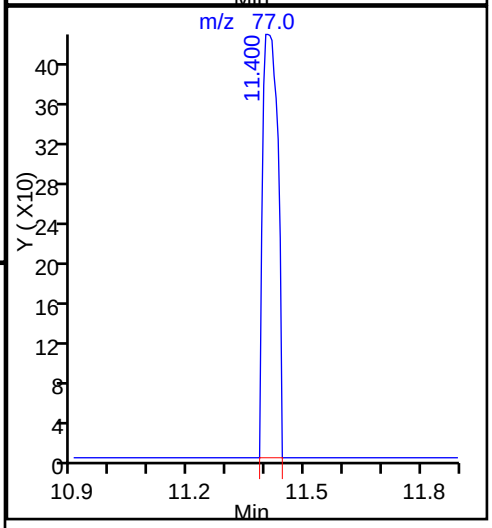
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

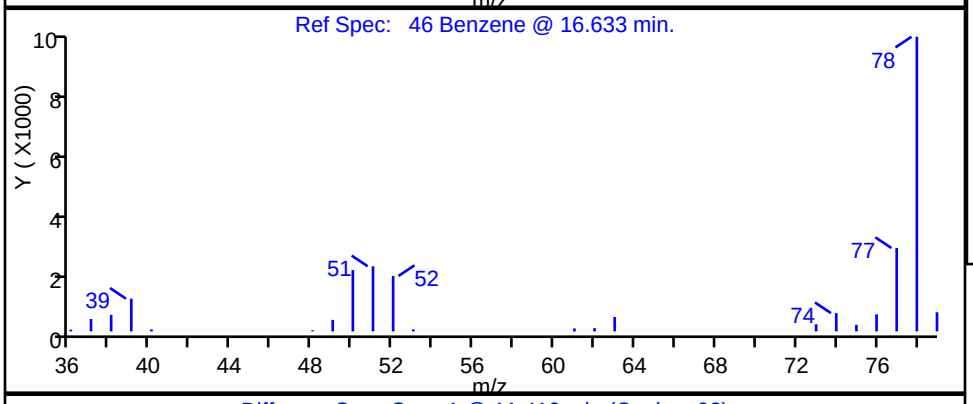
46 Benzene, CAS: 71-43-2

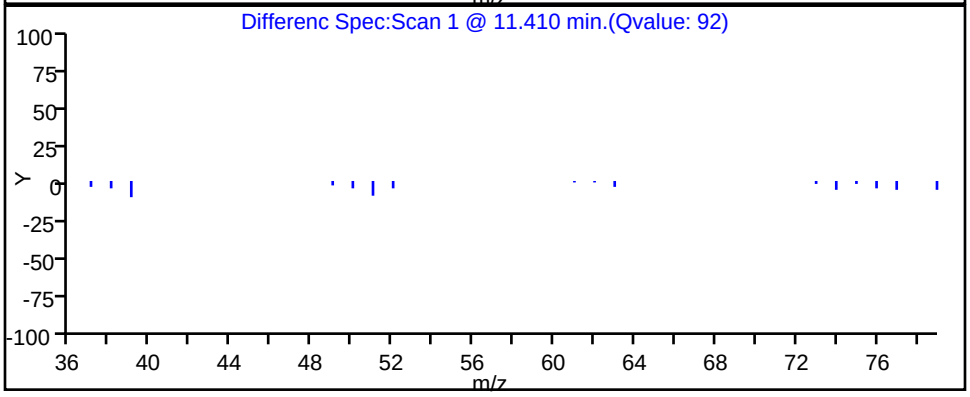












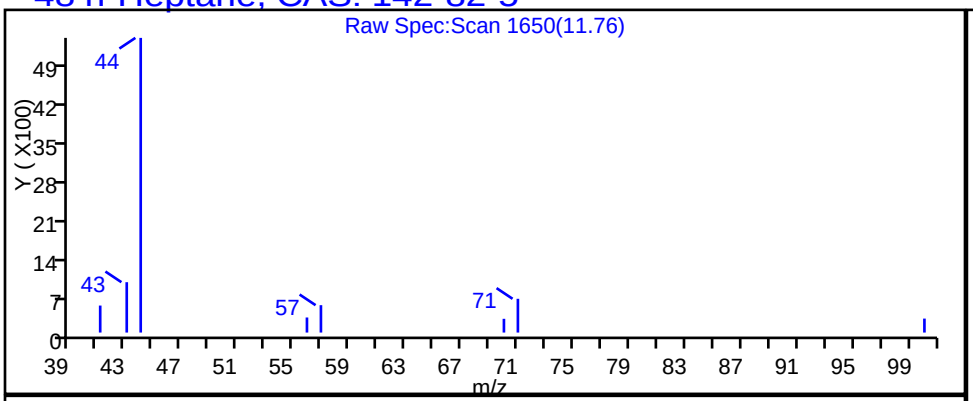
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

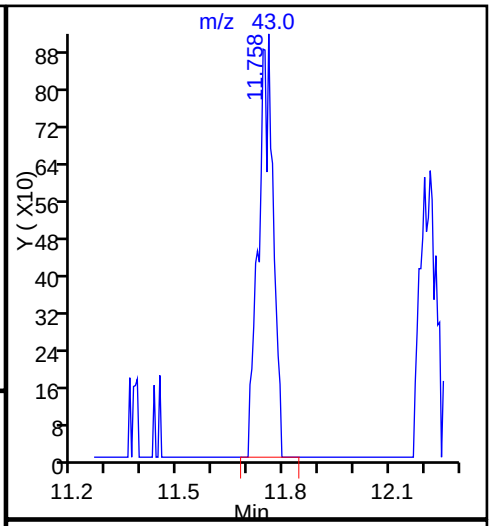
TestAmerica Burlington

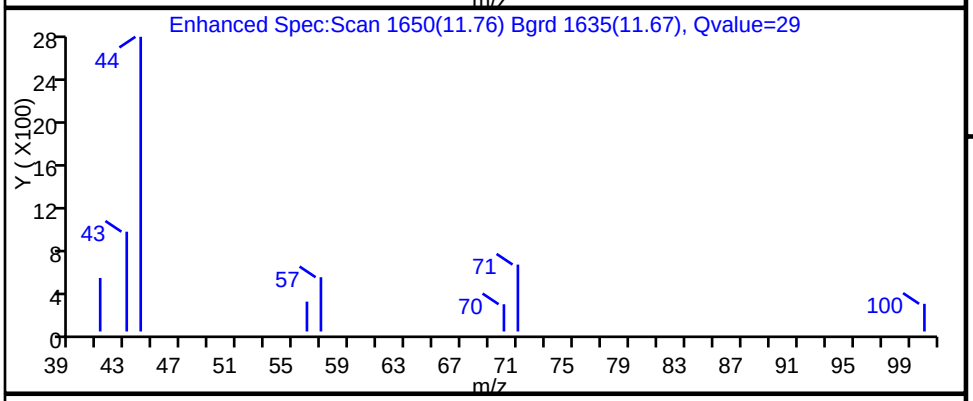
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

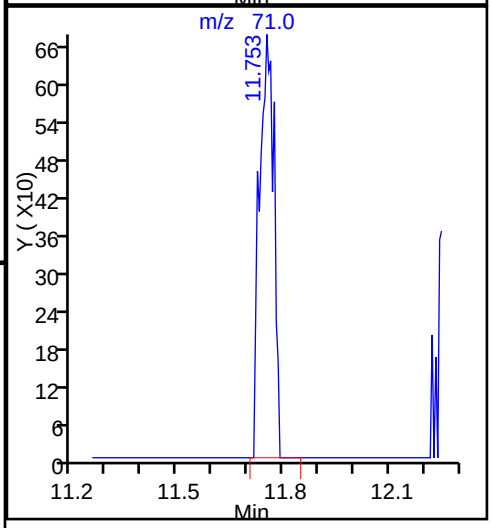
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

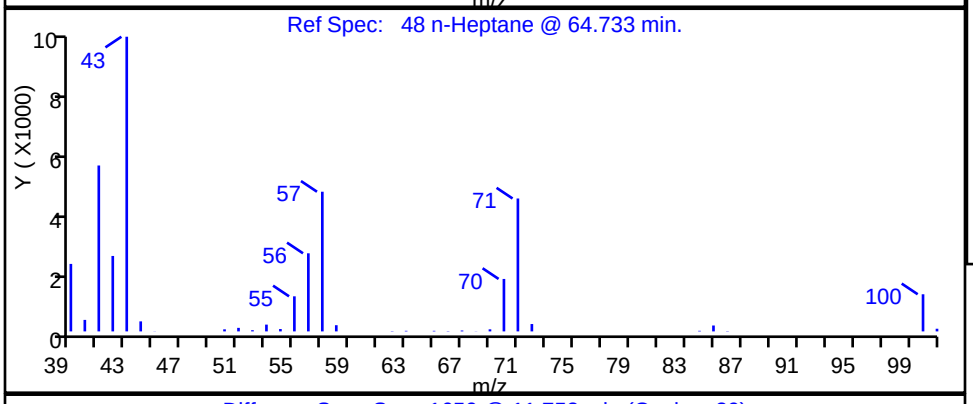
48 n-Heptane, CAS: 142-82-5

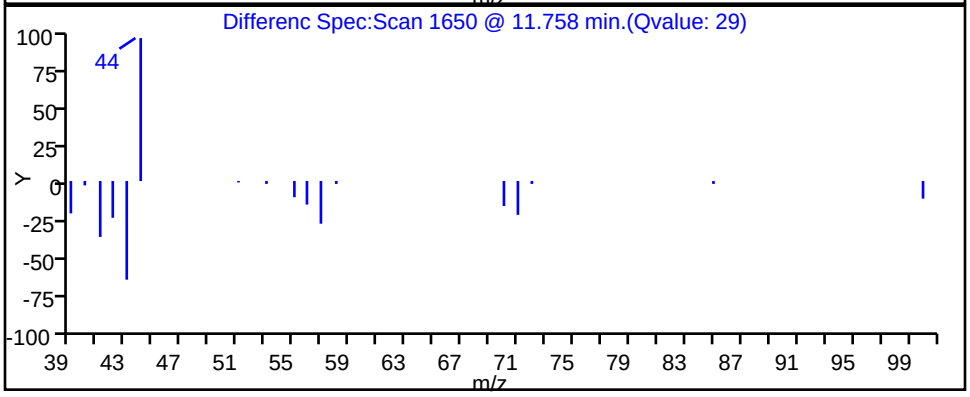












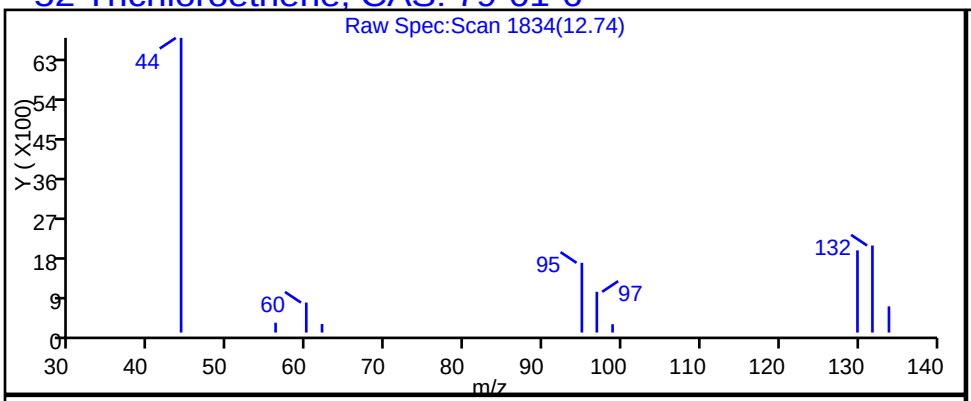
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

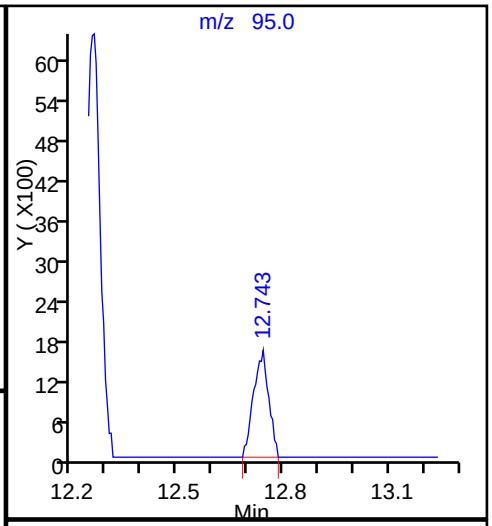
TestAmerica Burlington

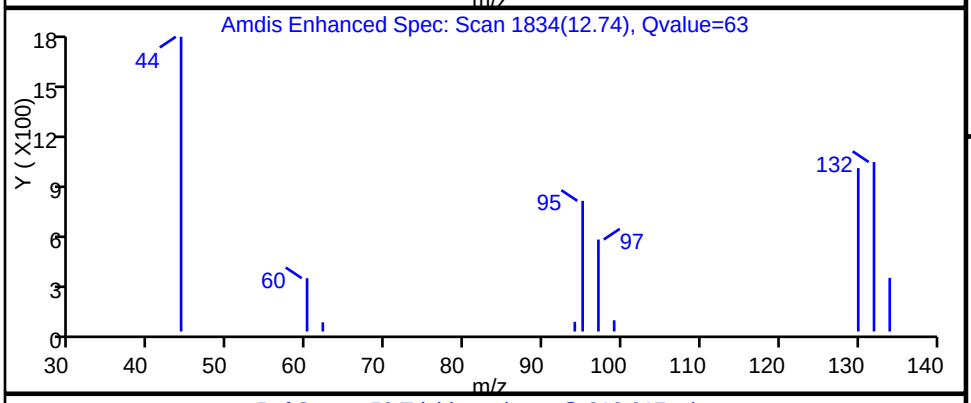
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

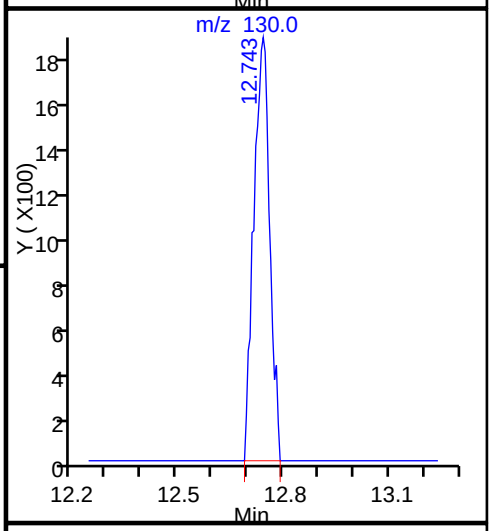
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

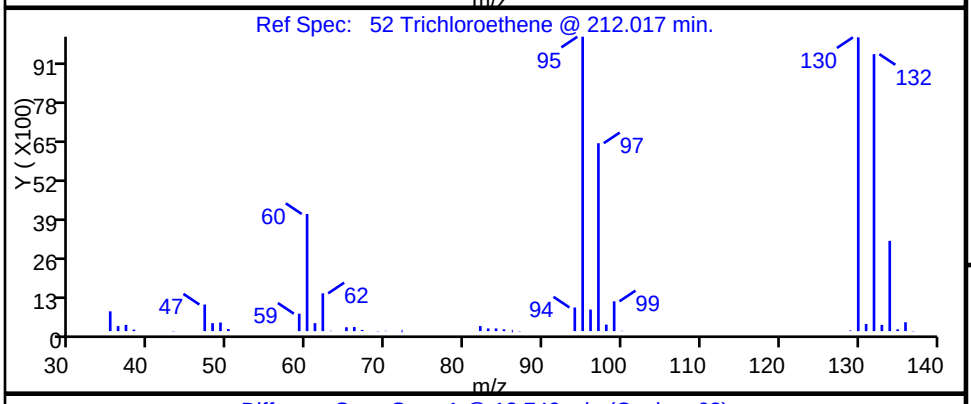
52 Trichloroethene, CAS: 79-01-6

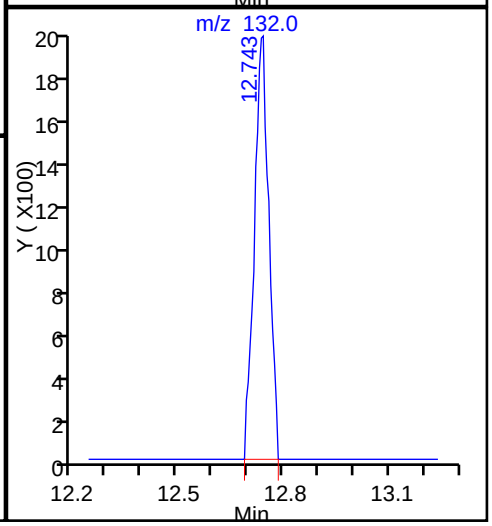


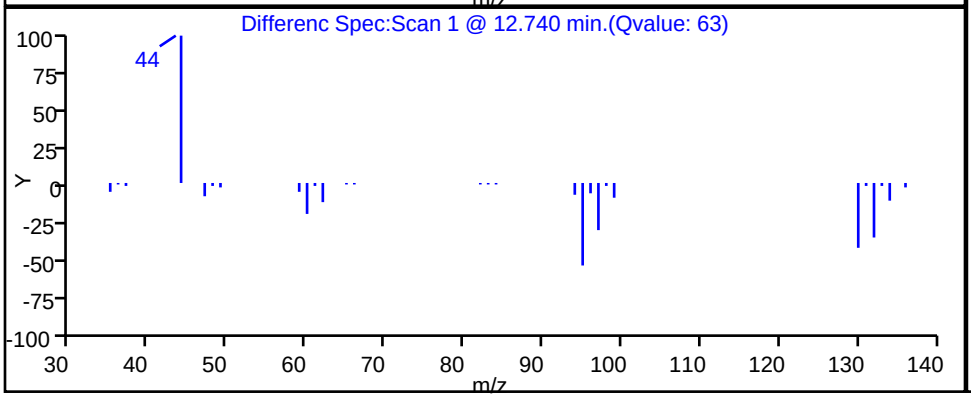












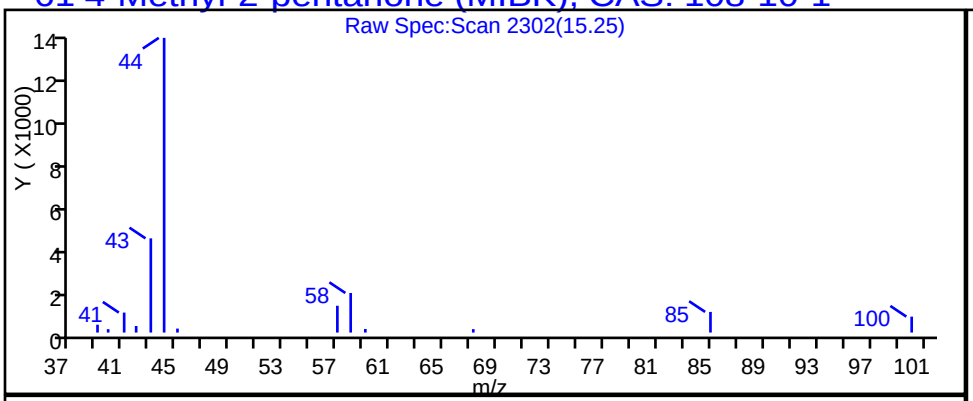
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

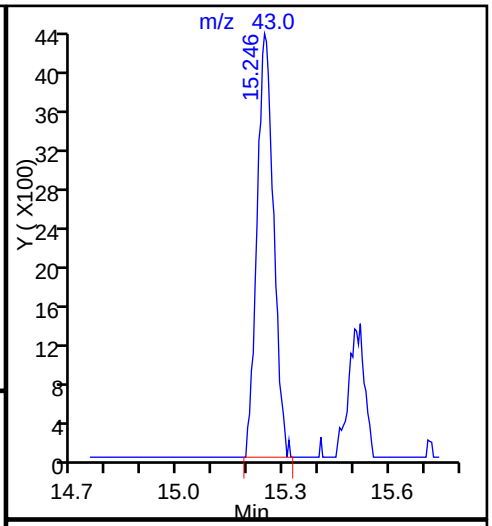
TestAmerica Burlington

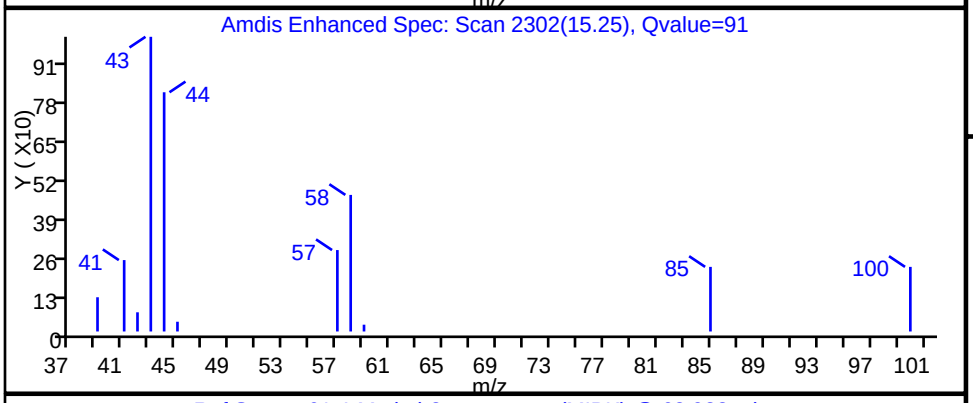
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

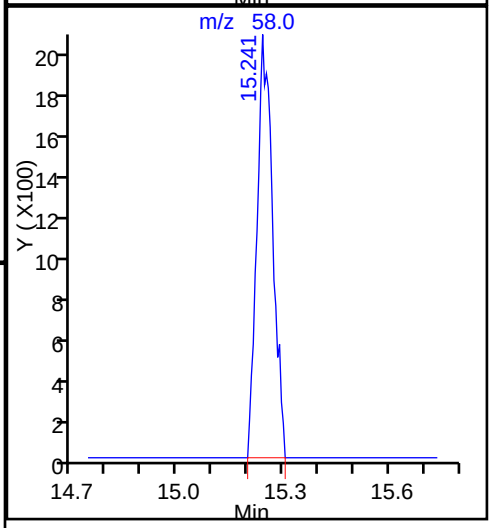
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

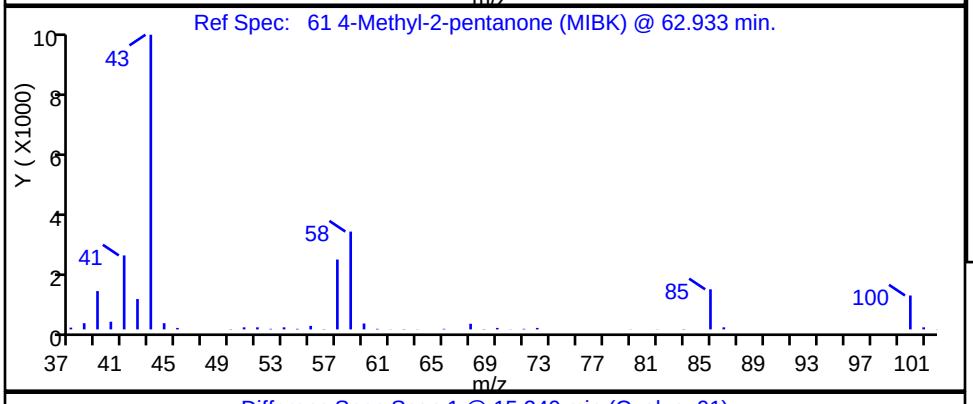
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

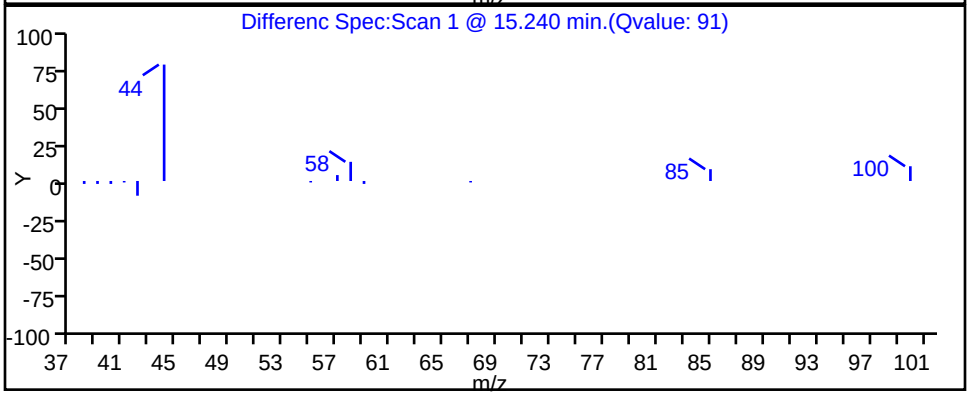












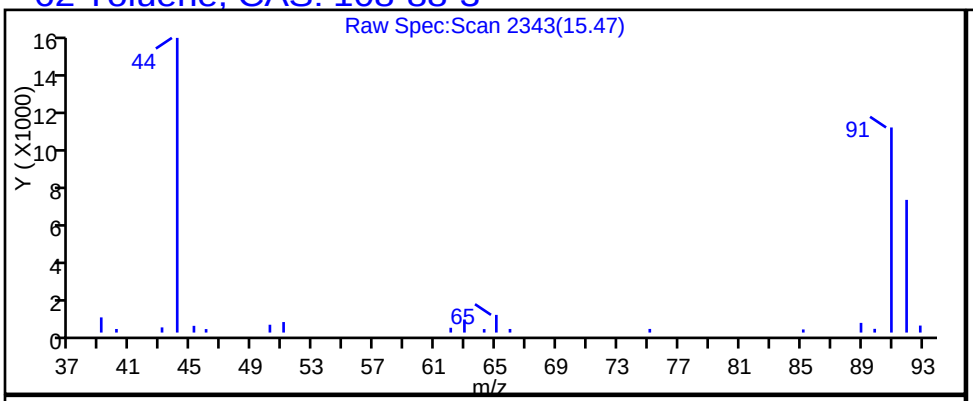
Report Date: 06-Oct-2015 10:24:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

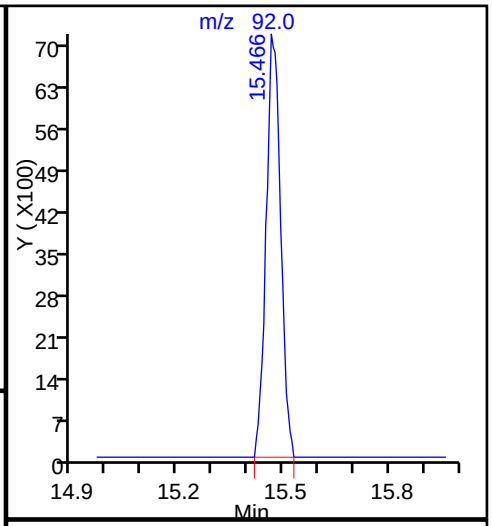
TestAmerica Burlington

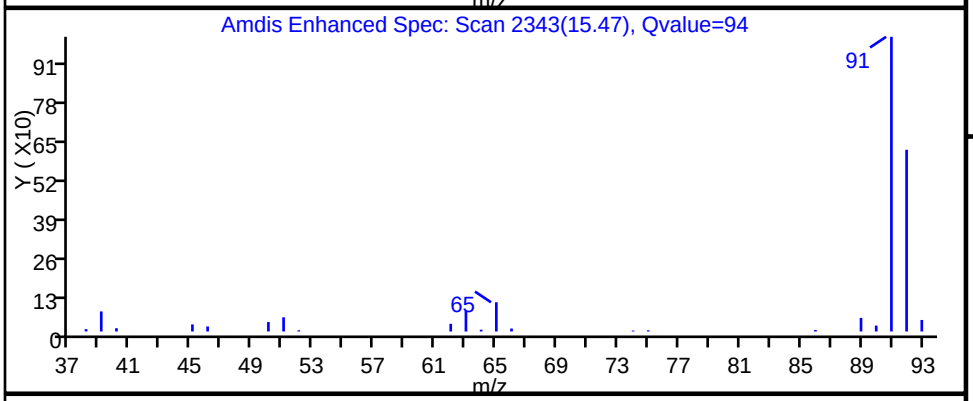
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

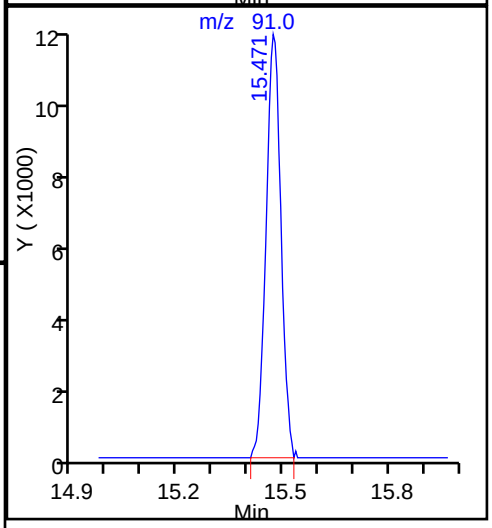
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

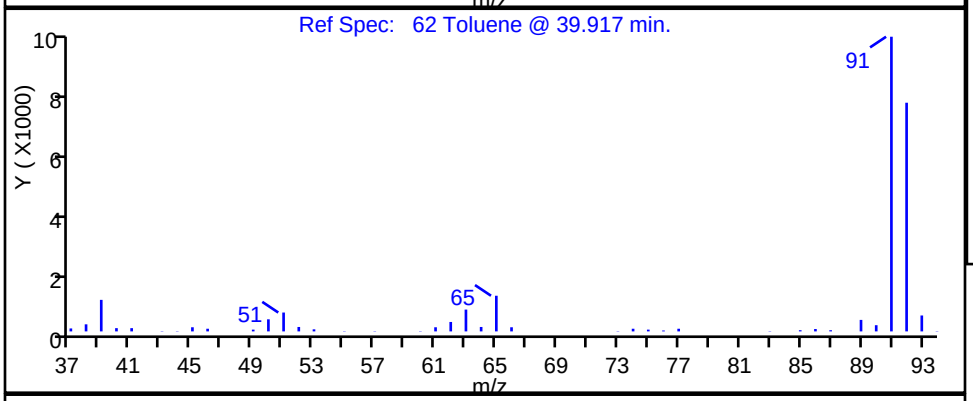
62 Toluene, CAS: 108-88-3

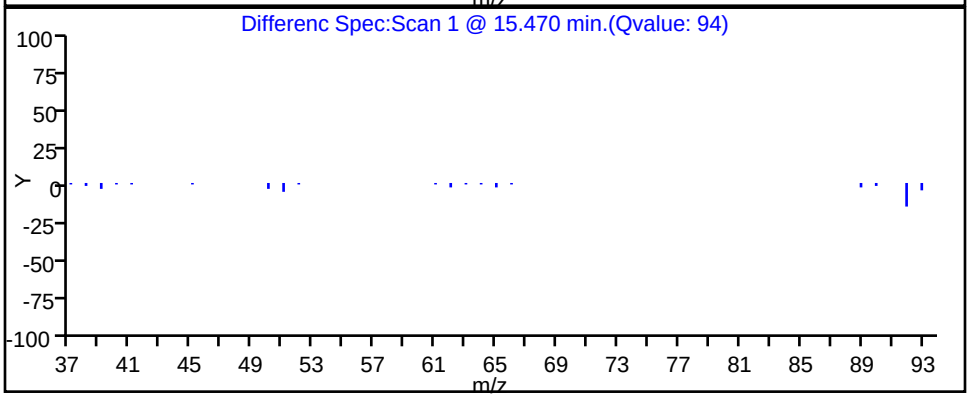












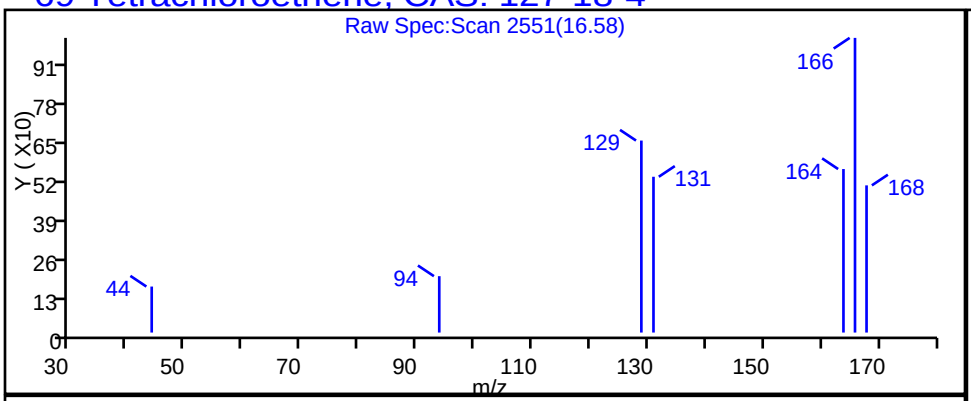
Report Date: 06-Oct-2015 10:24:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

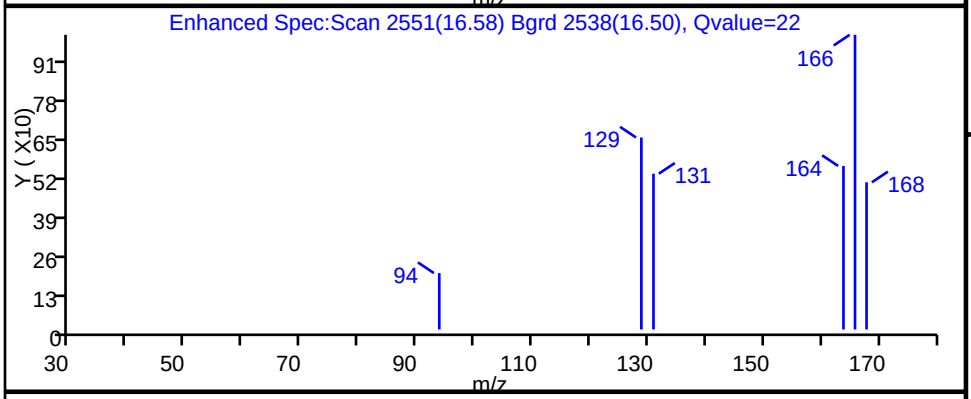
TestAmerica Burlington

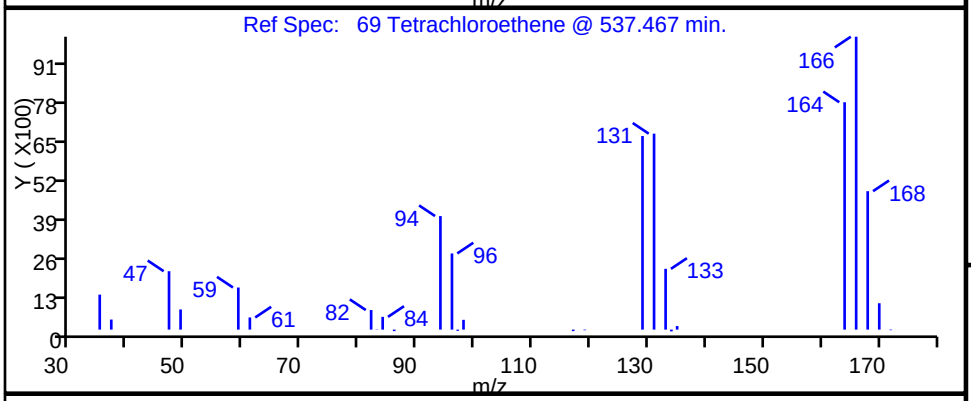
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

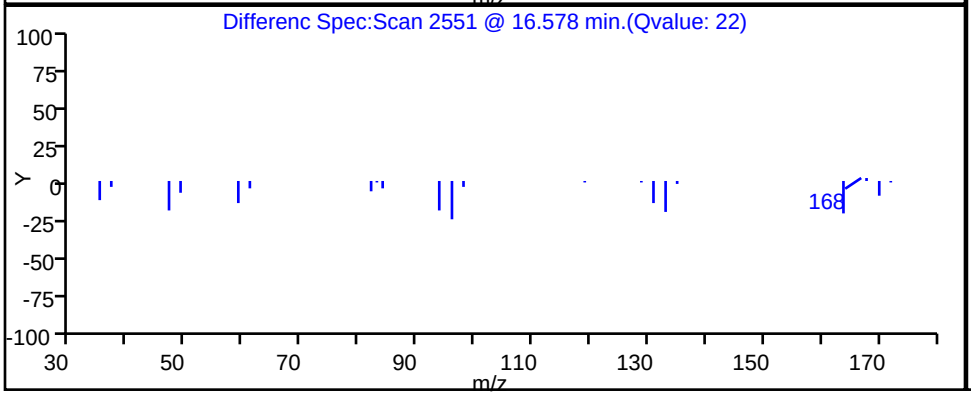
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

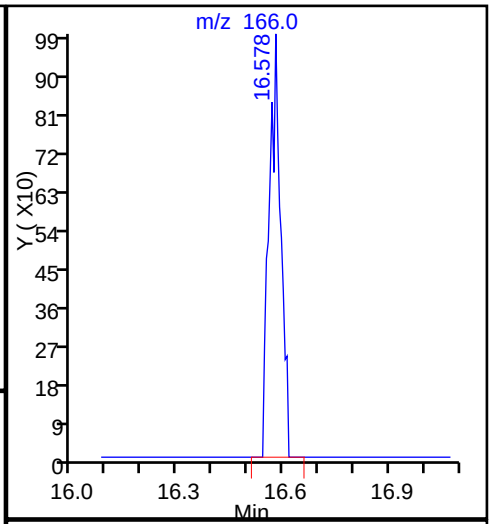
69 Tetrachloroethene, CAS: 127-18-4

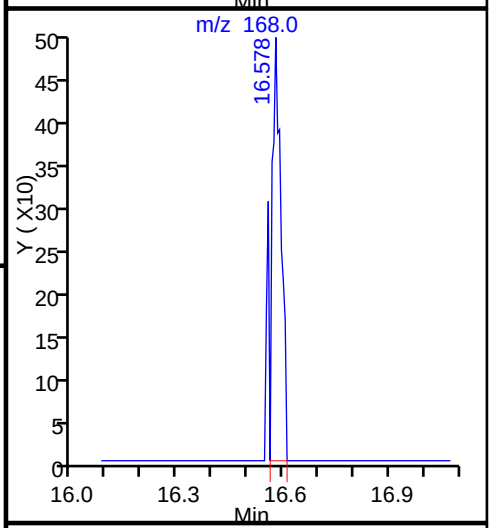


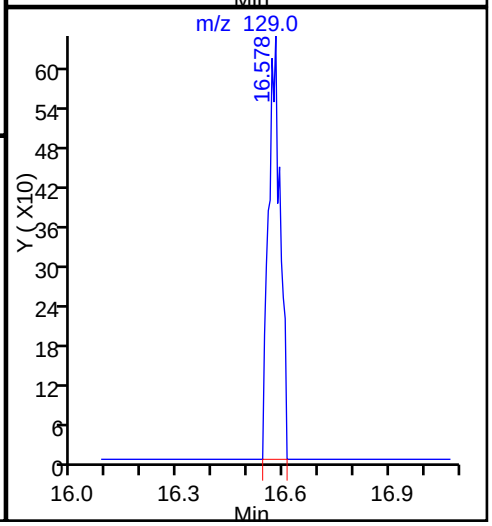












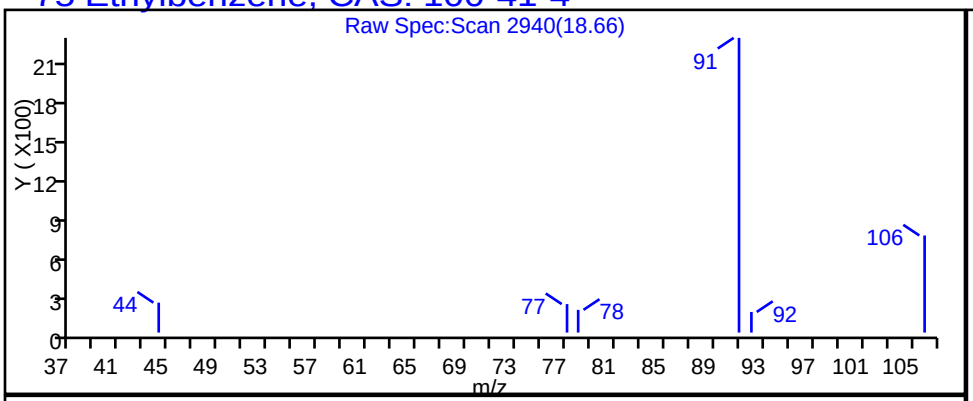
Report Date: 06-Oct-2015 10:24:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

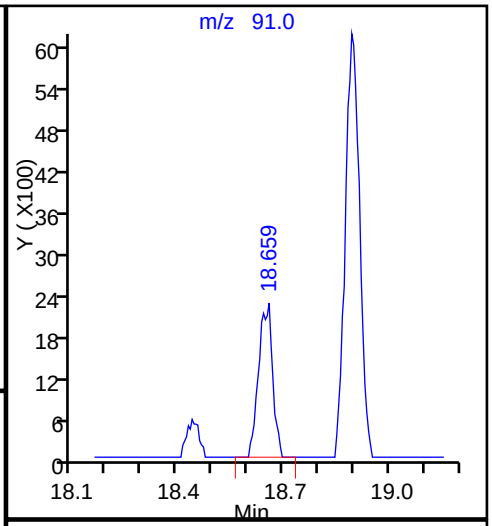
TestAmerica Burlington

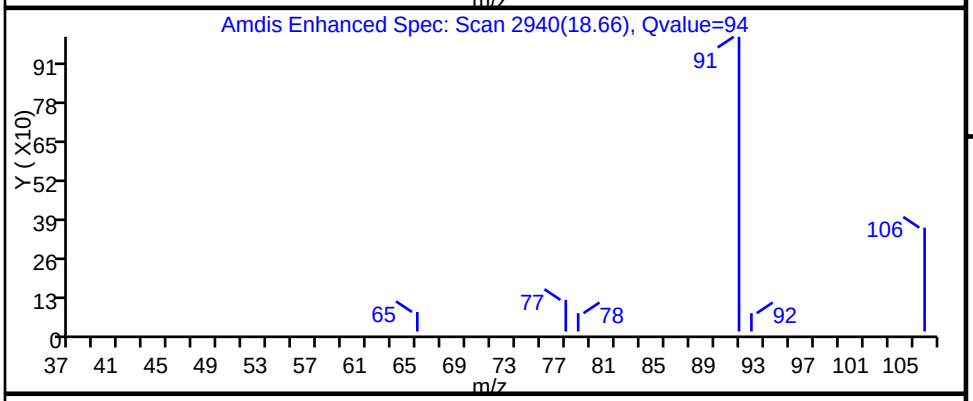
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

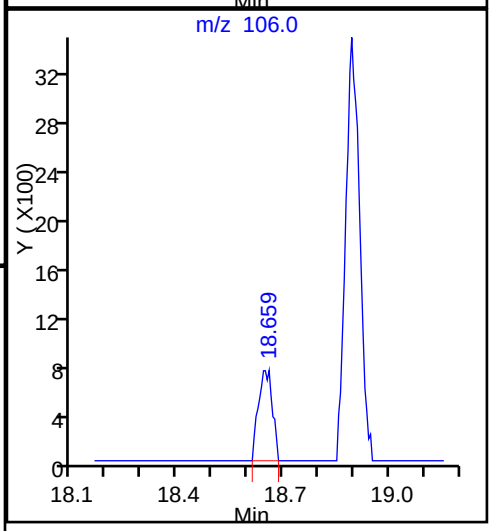
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

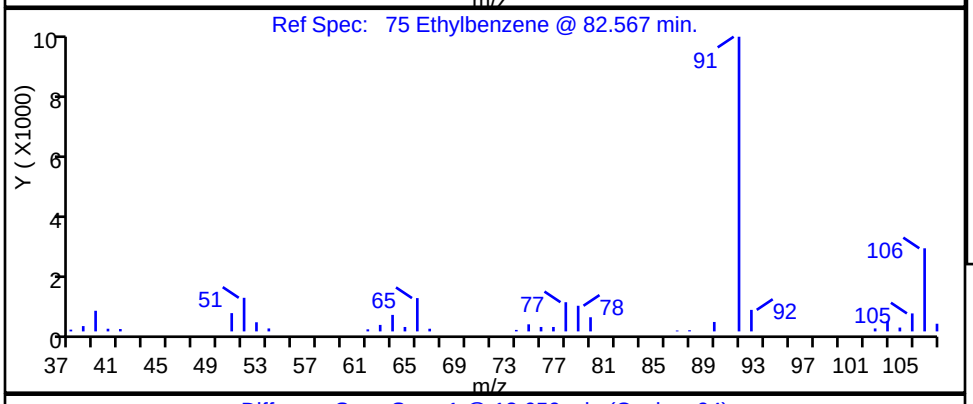
75 Ethylbenzene, CAS: 100-41-4

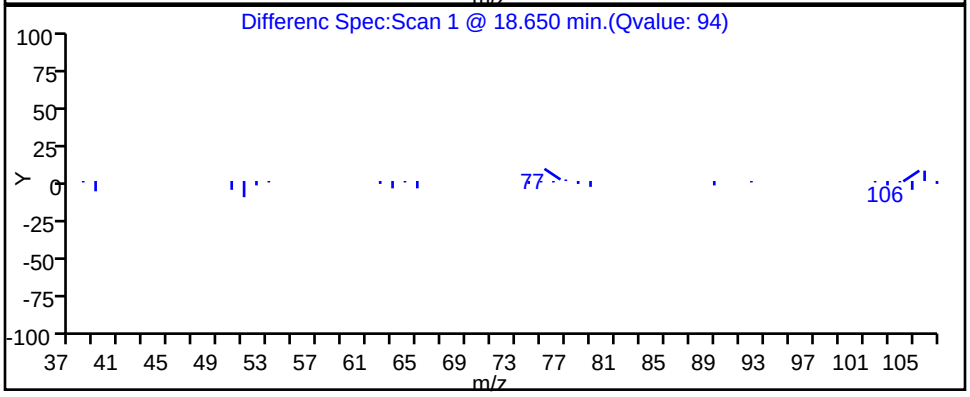












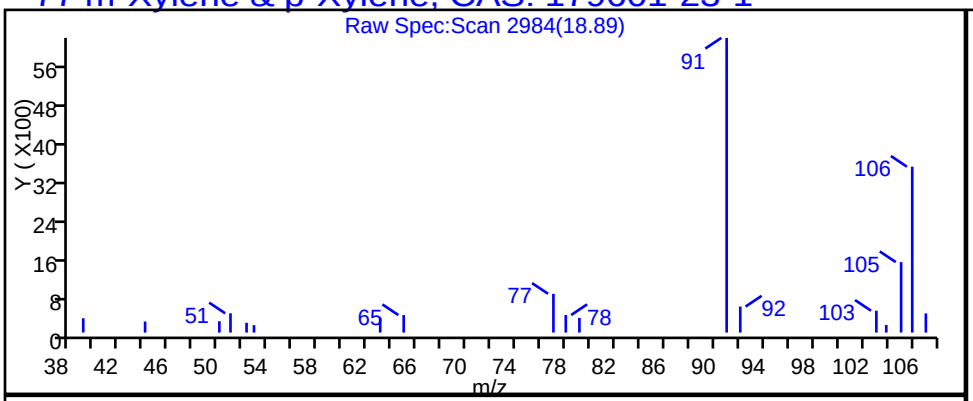
Report Date: 06-Oct-2015 10:24:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

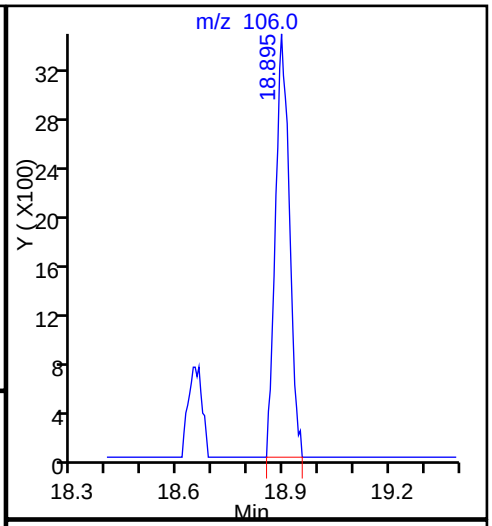
TestAmerica Burlington

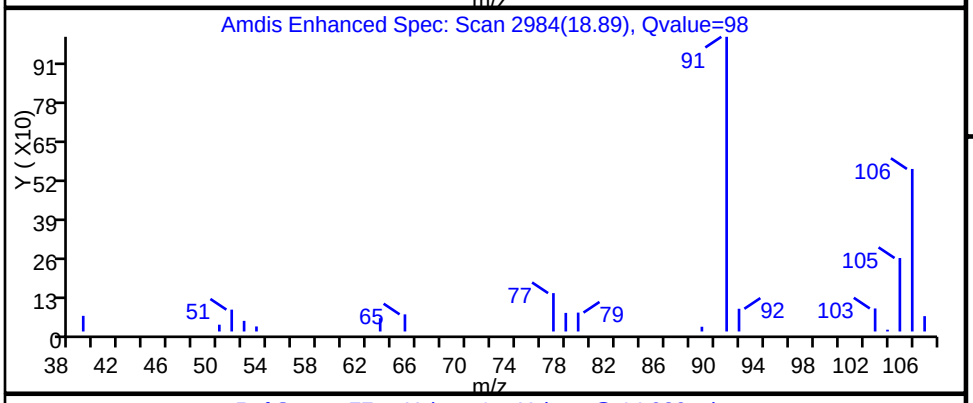
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

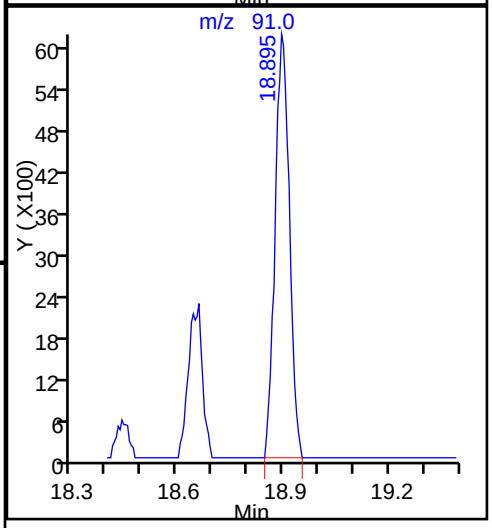
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

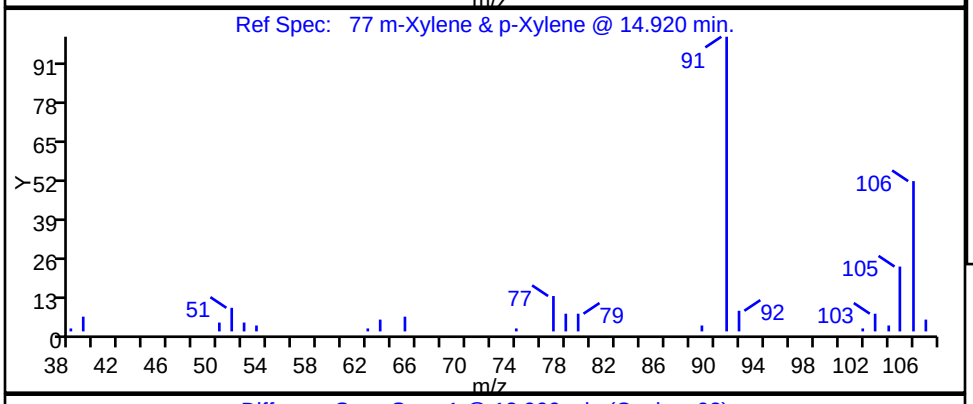
77 m-Xylene & p-Xylene, CAS: 179601-23-1

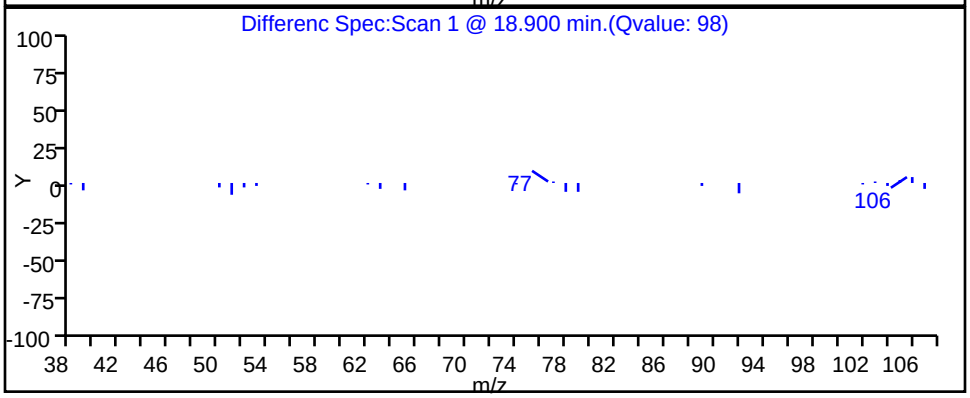












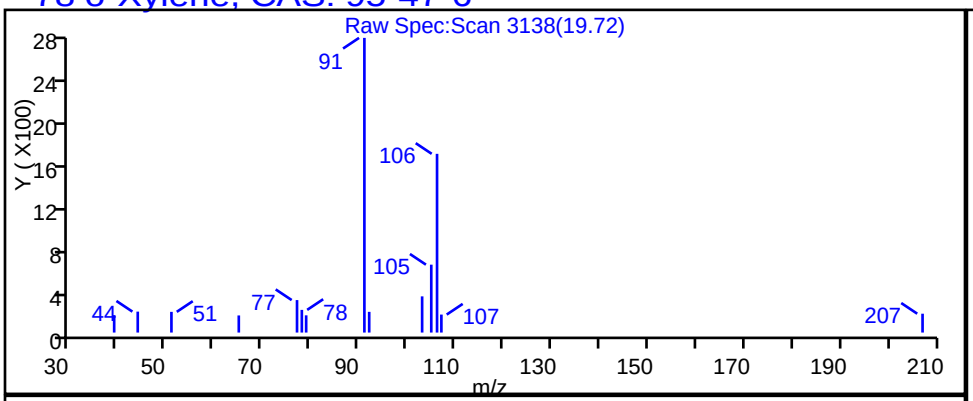
Report Date: 06-Oct-2015 10:24:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

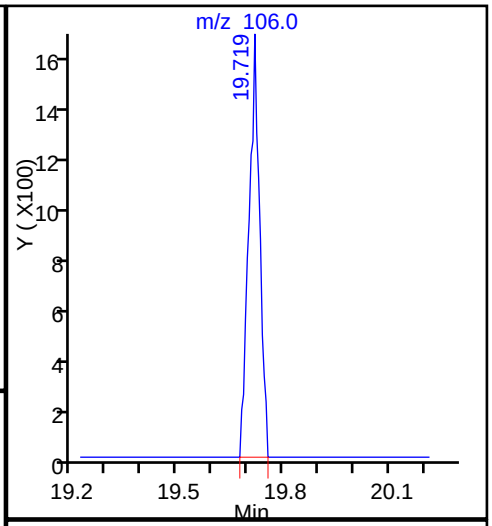
TestAmerica Burlington

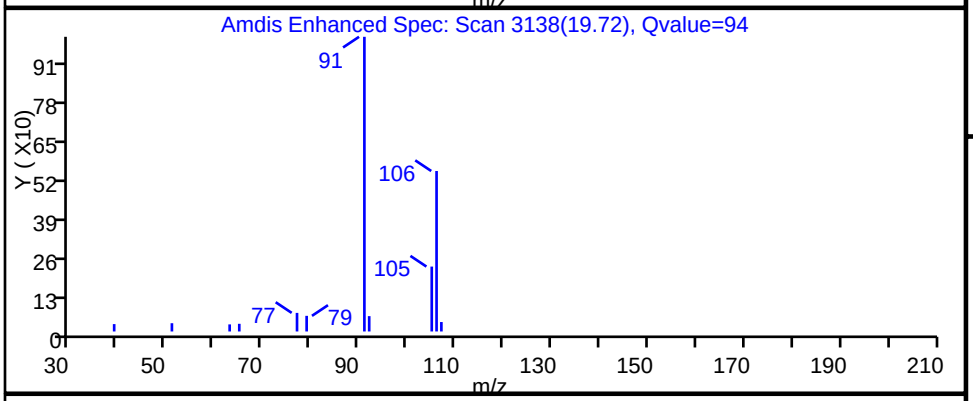
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

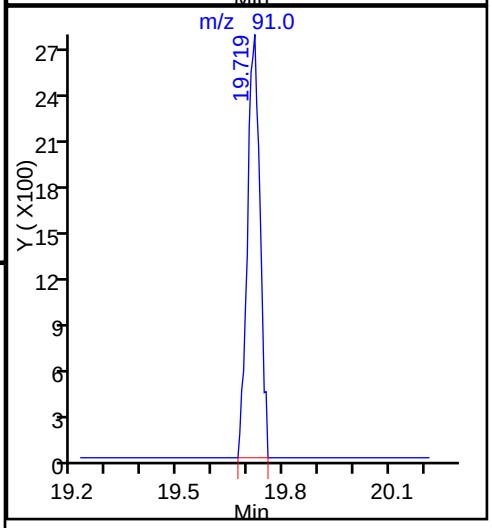
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

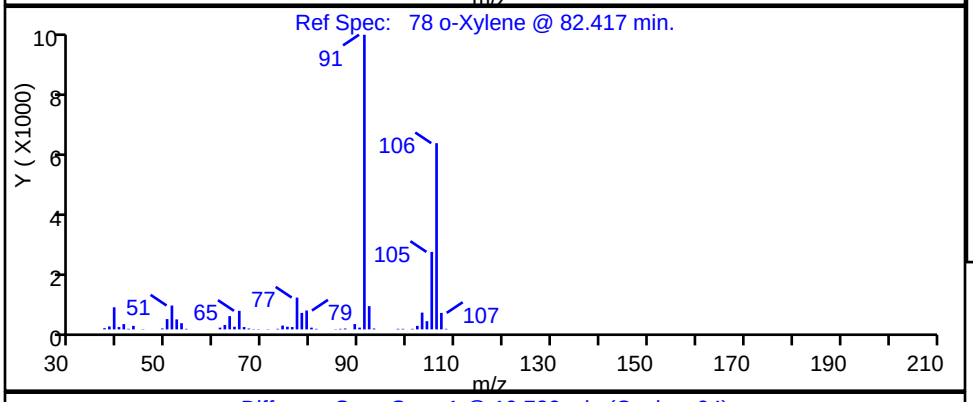
78 o-Xylene, CAS: 95-47-6

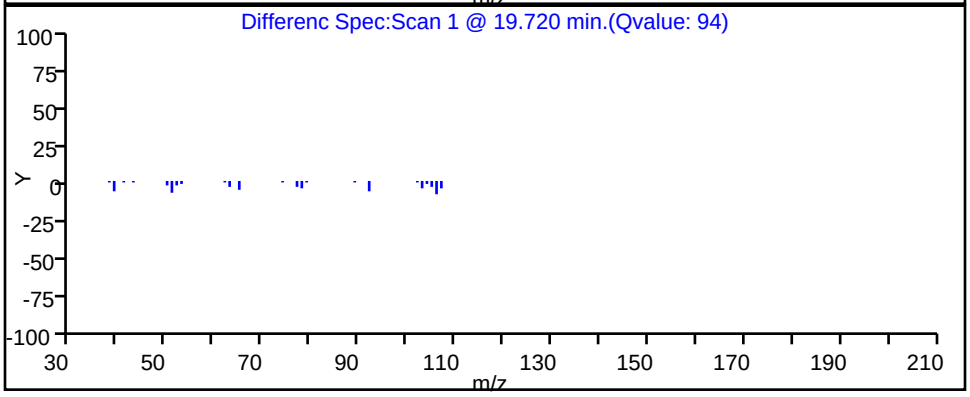












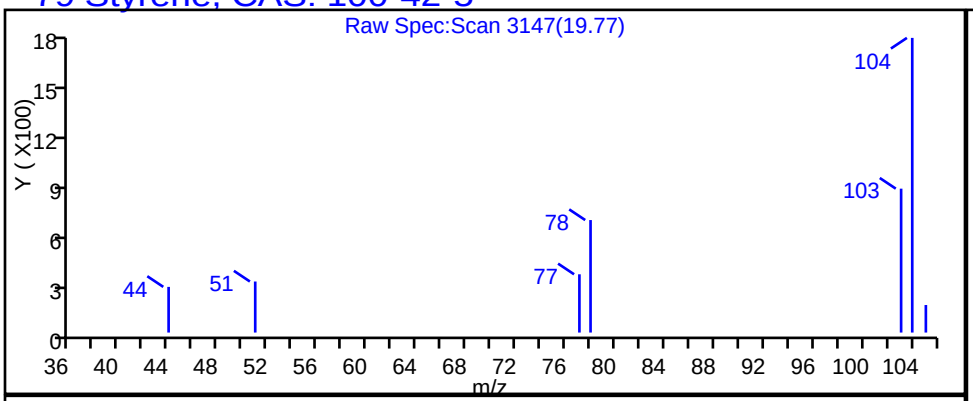
Report Date: 06-Oct-2015 10:24:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

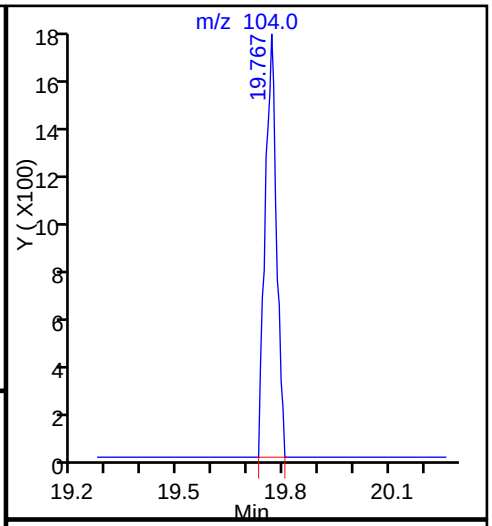
TestAmerica Burlington

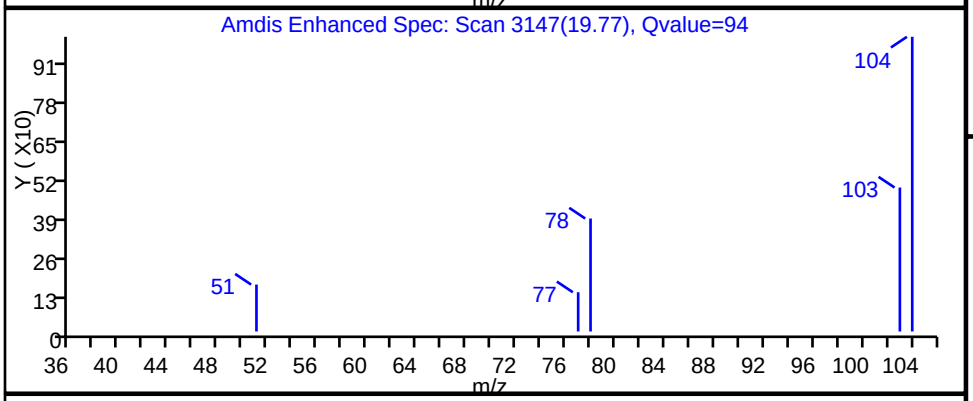
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D

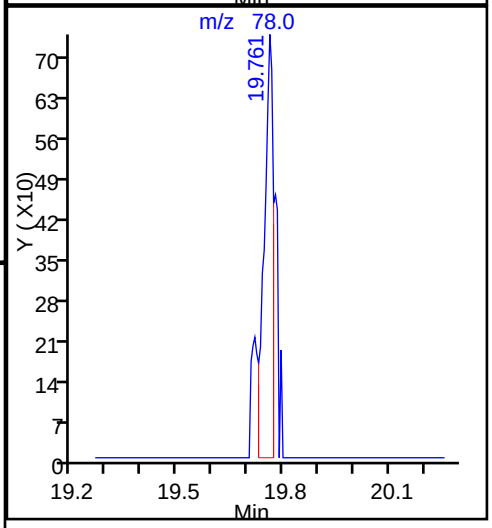
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

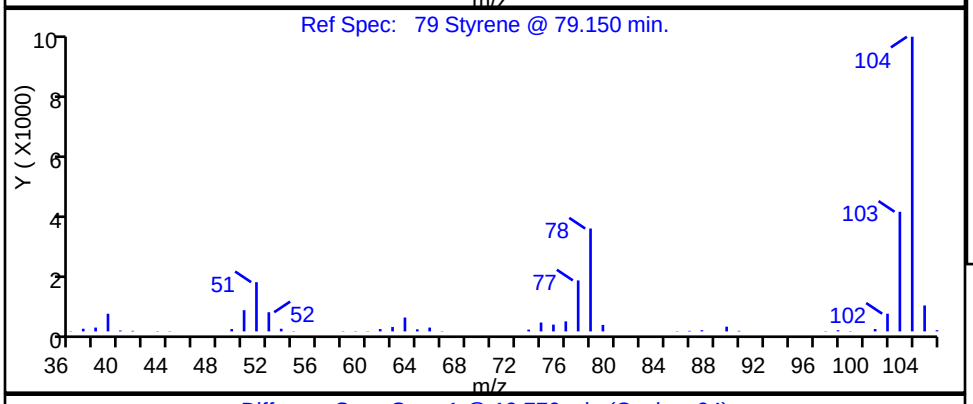
79 Styrene, CAS: 100-42-5

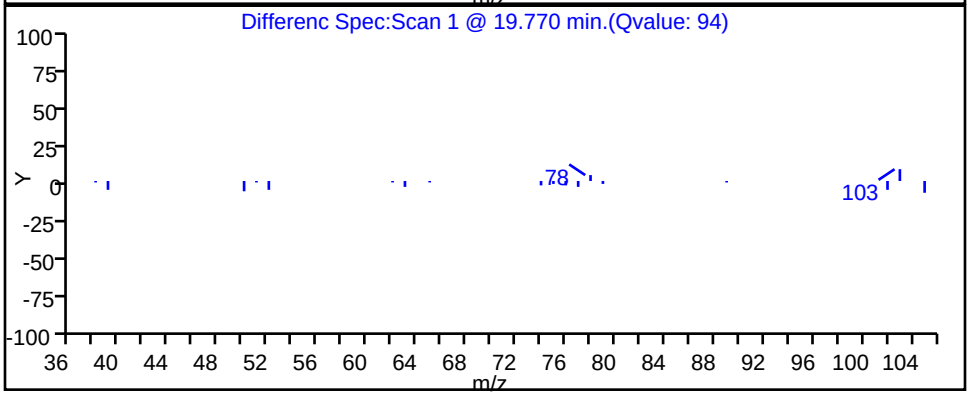










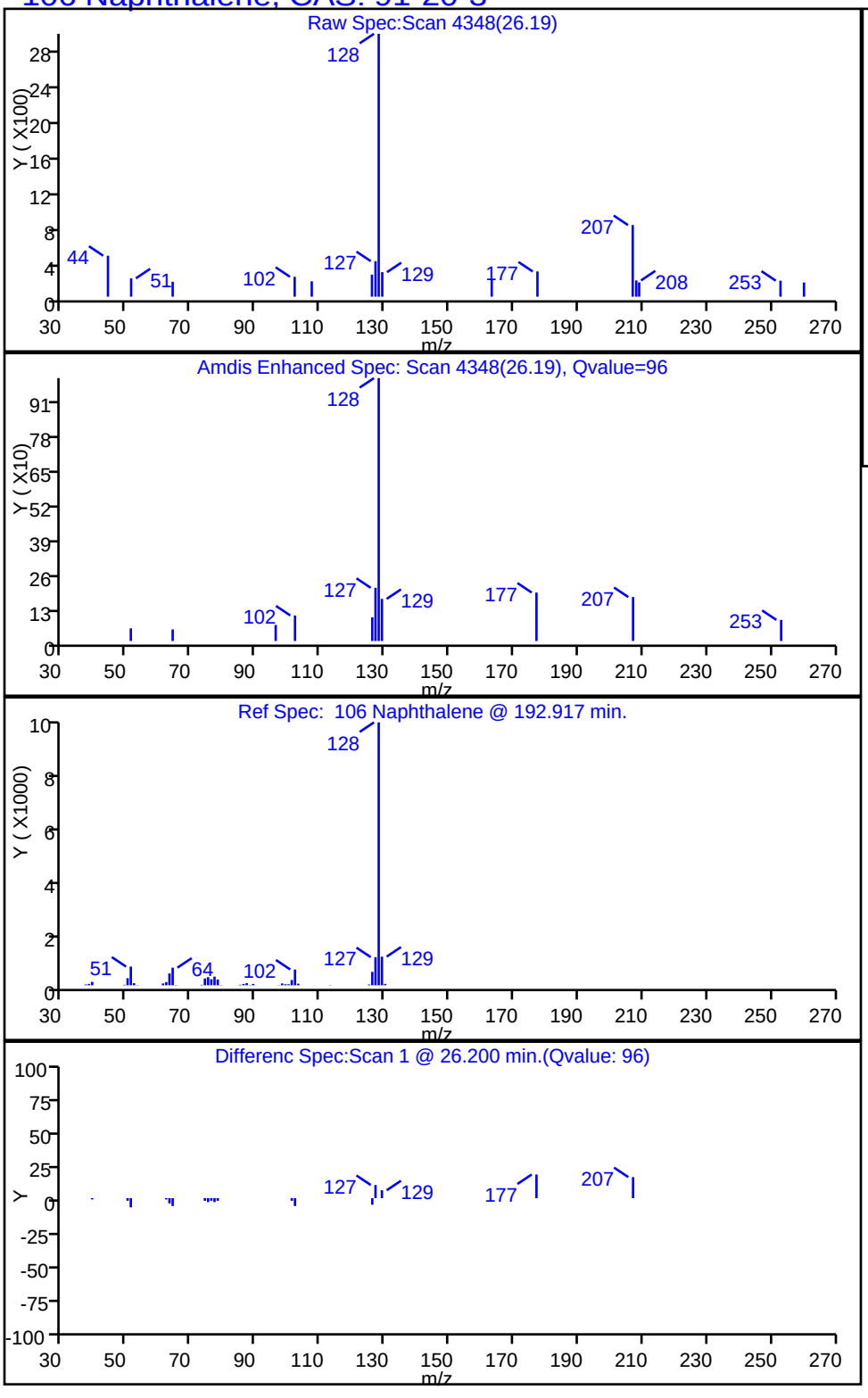


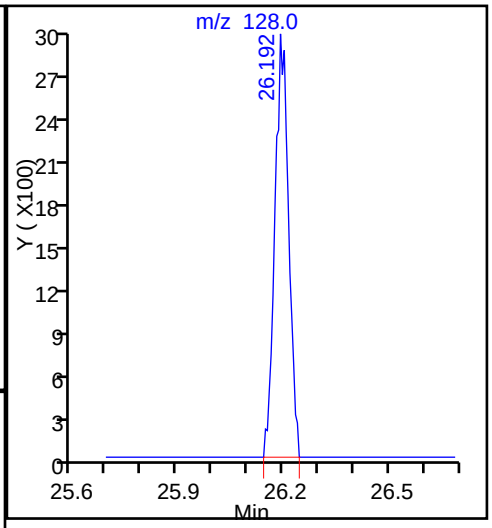
Report Date: 06-Oct-2015 10:24:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

106 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

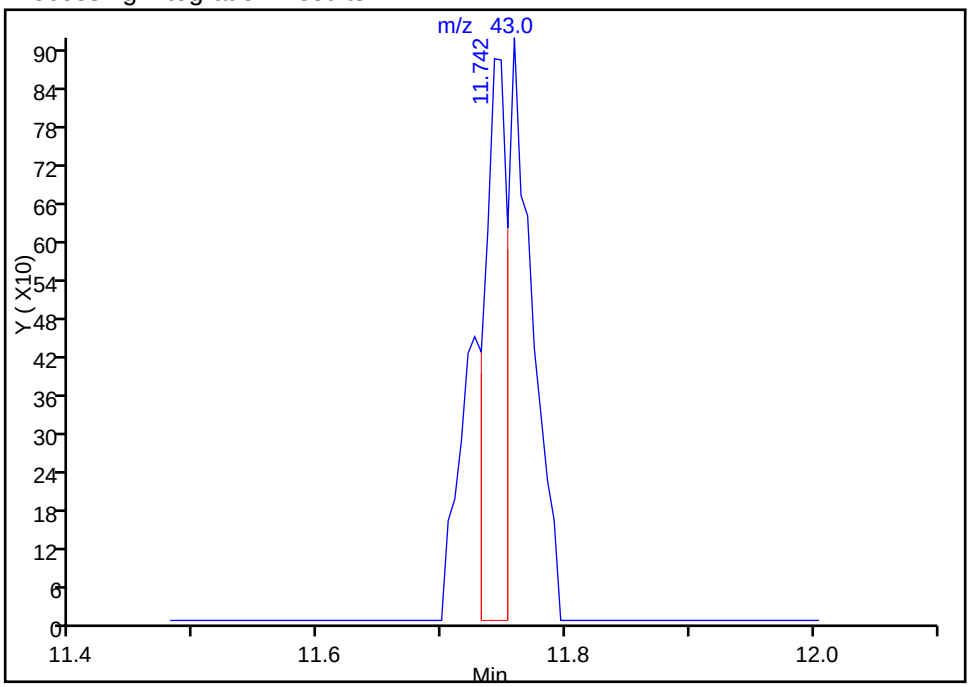
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

48 n-Heptane, CAS: 142-82-5

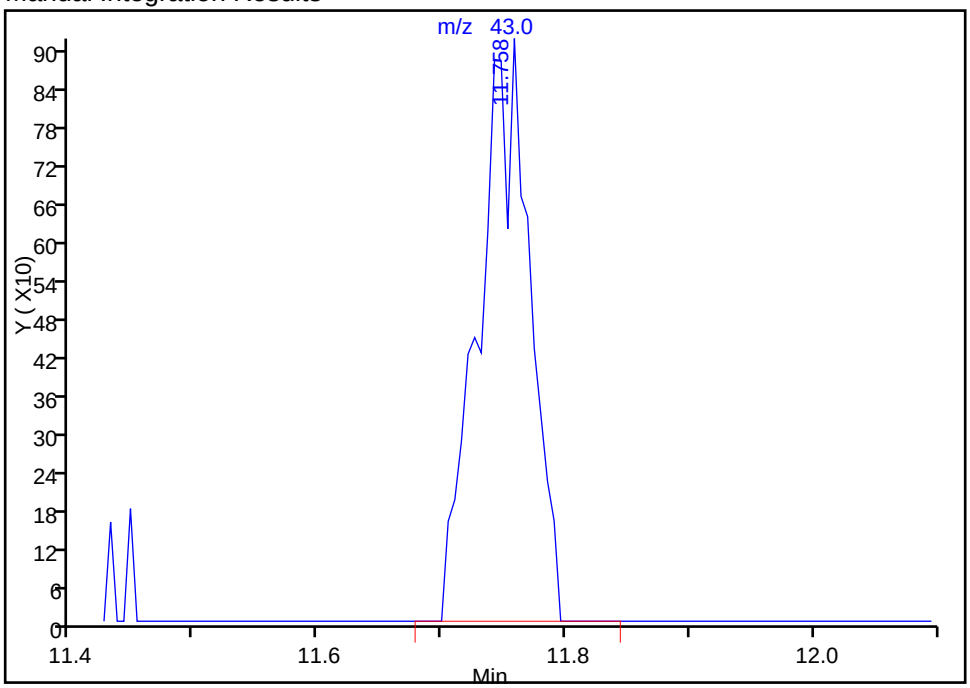
Processing Integration Results

RT: 11.74
Area: 1097
Amount: 0.048195
Amount Units: ppb v/v



Manual Integration Results

RT: 11.76
Area: 2654
Amount: 0.116599
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:24:18
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

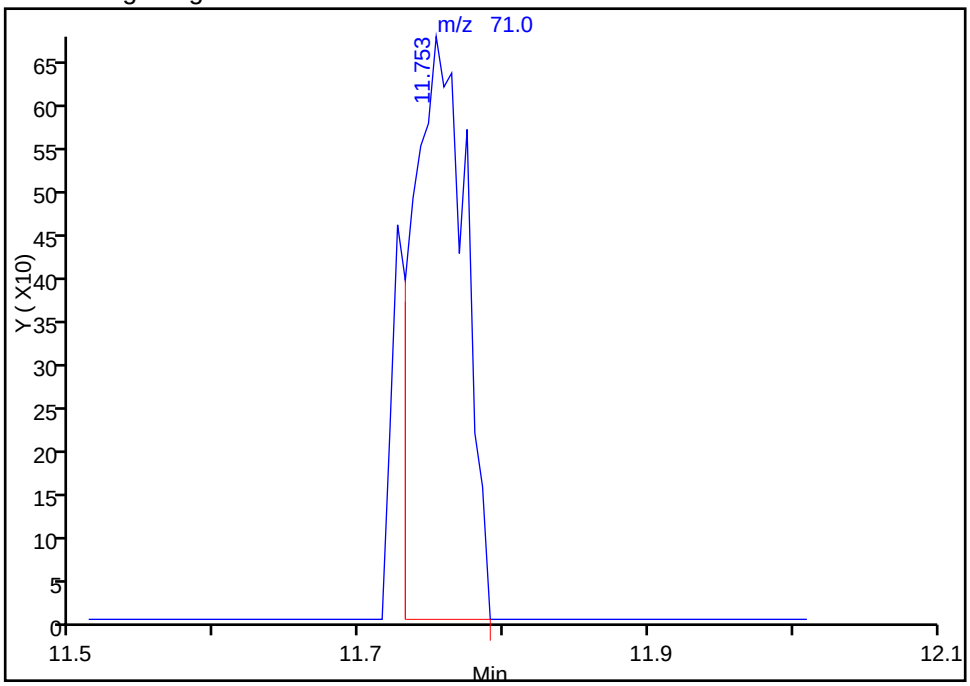
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

48 n-Heptane, CAS: 142-82-5

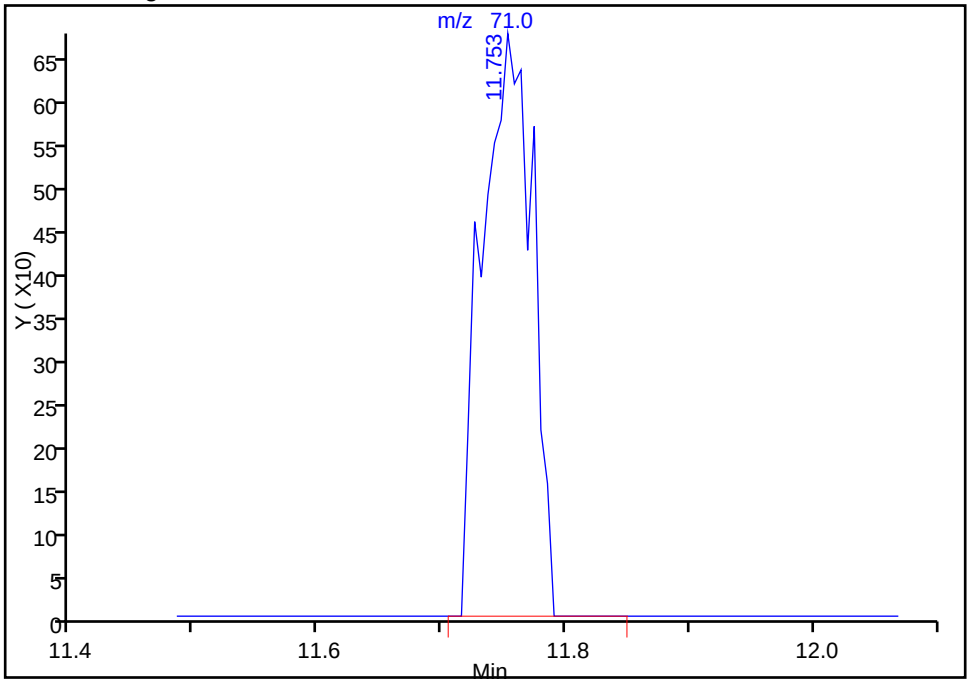
Processing Integration Results

RT: 11.75
Area: 1690
Amount: 0.048195
Amount Units: ppb v/v



Manual Integration Results

RT: 11.75
Area: 1906
Amount: 0.116599
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:24:18
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

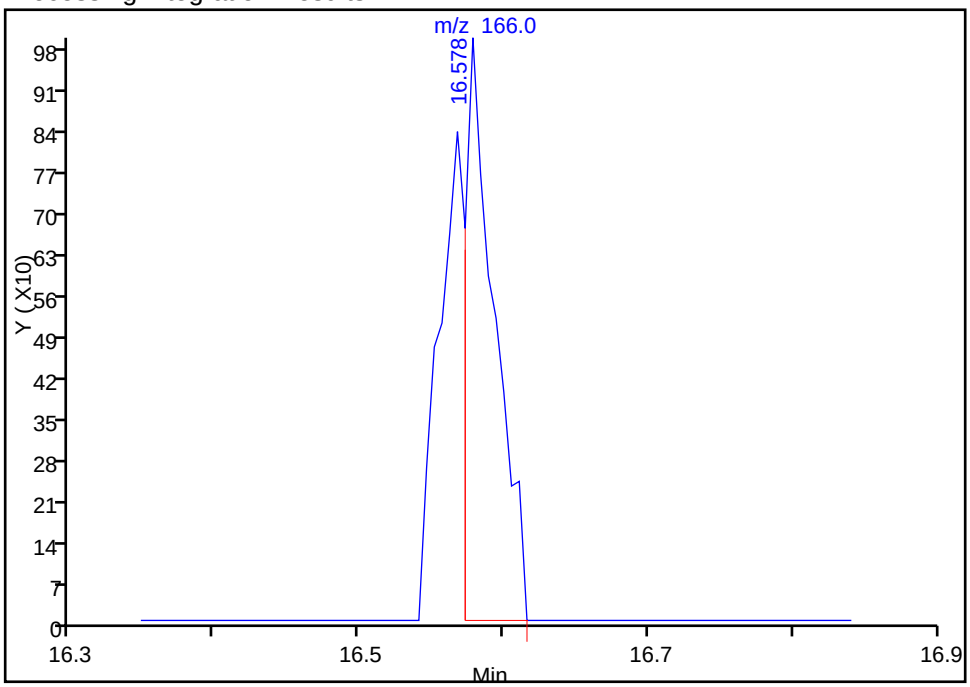
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

69 Tetrachloroethene, CAS: 127-18-4

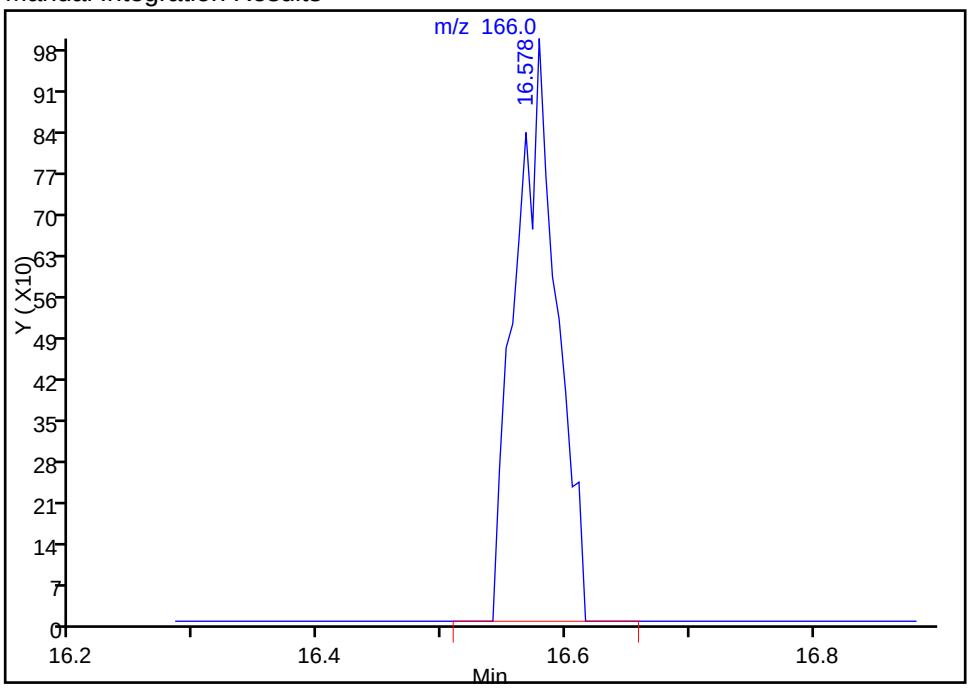
Processing Integration Results

RT: 16.58
Area: 1405
Amount: 0.033546
Amount Units: ppb v/v



Manual Integration Results

RT: 16.58
Area: 2280
Amount: 0.054438
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:24:18
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

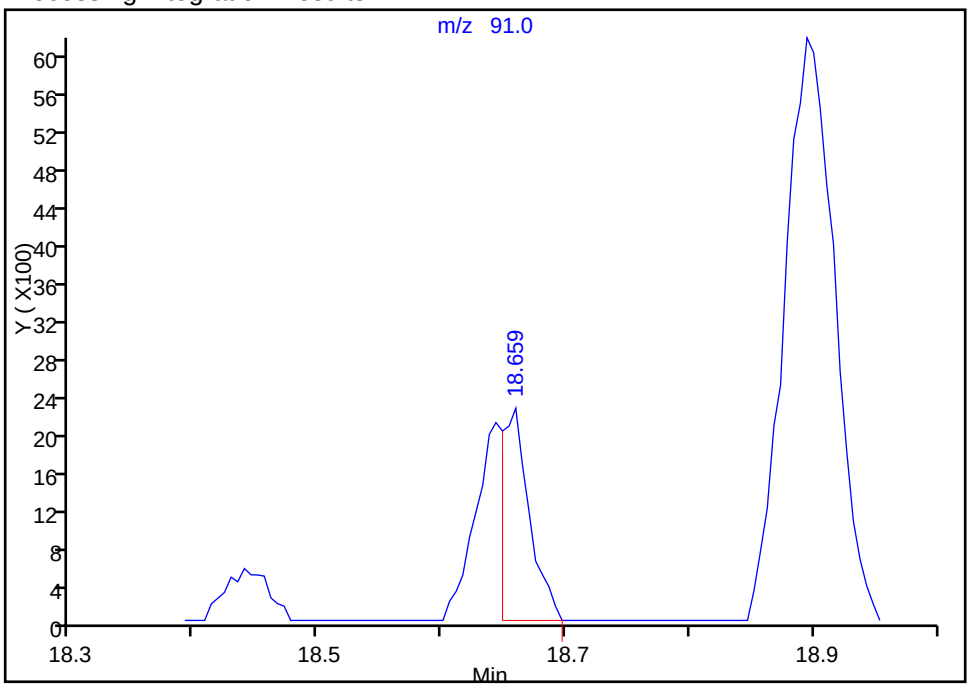
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_20.D				
Injection Date:	06-Oct-2015 00:16:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-5	Lab Sample ID:	200-29972-5		
Client ID:	FR-SS03-092315				
Operator ID:	wrd	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

75 Ethylbenzene, CAS: 100-41-4

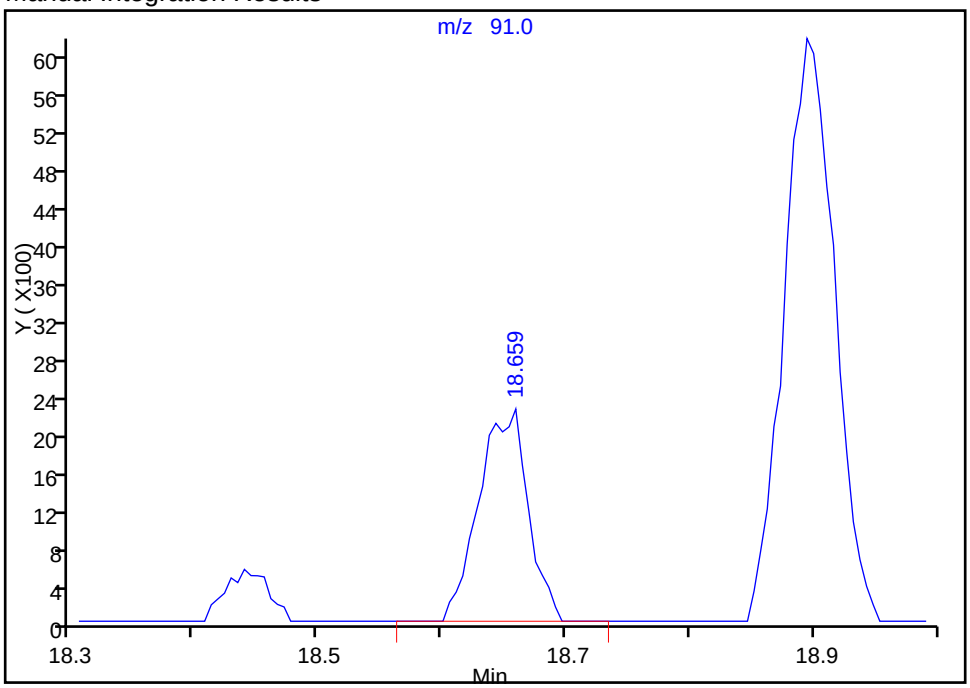
Processing Integration Results

RT: 18.66
Area: 3446
Amount: 0.038007
Amount Units: ppb v/v



Manual Integration Results

RT: 18.66
Area: 6176
Amount: 0.068118
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:24:18
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA03-092315 | Lab Sample ID: 200-29972-6

Matrix: Air | Lab File ID: 15991_010.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 17:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.65		0.50	0.080
75-45-6	Freon 22	86.47	0.44	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.53		0.50	0.093
106-97-8	n-Butane	58.12	4.0		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	32		0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.19	J	0.20	0.036
67-64-1	Acetone	58.08	4.4	J	5.0	0.86
67-63-0	Isopropyl alcohol	60.10	1.5	J	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.21	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.41		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.057	J	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.65		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.10	J	0.20	0.046
110-82-7	Cyclohexane	84.16	0.099	J	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.093		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.14	J	0.20	0.039
71-43-2	Benzene	78.11	0.32		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.12	J	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA03-092315 | Lab Sample ID: 200-29972-6

Matrix: Air | Lab File ID: 15991_010.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 17:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.097	J	0.20	0.040
79-01-6	Trichloroethene	131.39	0.047		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	0.65		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.095	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.33	J	0.50	0.071
95-47-6	Xylene, o-	106.17	0.12	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.45	J	0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.083	J	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA03-092315 Lab Sample ID: 200-29972-6

Matrix: Air Lab File ID: 15991_010.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 17:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA03-092315 | Lab Sample ID: 200-29972-6

Matrix: Air | Lab File ID: 15991_010.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 17:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.2		2.5	0.40
75-45-6	Freon 22	86.47	1.6	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.1		1.0	0.19
106-97-8	n-Butane	58.12	9.5		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	180		1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.76	J	0.79	0.14
67-64-1	Acetone	58.08	11	J	12	2.0
67-63-0	Isopropyl alcohol	60.10	3.7	J	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	0.72	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	1.4		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.23	J	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	1.9		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	0.55	J	1.1	0.25
110-82-7	Cyclohexane	84.16	0.34	J	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.58		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.68	J	0.93	0.18
71-43-2	Benzene	78.11	1.0		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.47	J	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA03-092315 | Lab Sample ID: 200-29972-6

Matrix: Air | Lab File ID: 15991_010.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 17:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.40	J	0.82	0.16
79-01-6	Trichloroethene	131.39	0.26		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	2.5		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.41	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	1.4	J	2.2	0.31
95-47-6	Xylene, o-	106.17	0.51	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	2.0	J	3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.41	J	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA03-092315 Lab Sample ID: 200-29972-6

Matrix: Air Lab File ID: 15991_010.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:31

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 17:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d
Lims ID: 200-29972-A-6 Lab Sample ID: 200-29972-6
Client ID: FR-IA03-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 17:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-010
Misc. Info.: 29972-06
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:48:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.415	4.426	-0.011	98	32092	0.6502	
3 Chlorodifluoromethane	51	4.490	4.495	-0.005	95	8724	0.4385	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.009	5.009	0.000	98	5082	0.5272	
6 Butane	43	5.287	5.282	0.005	95	56061	3.99	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	98	1795938	32.1	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.668	8.663	0.005	84	3064	0.1905	
22 Acetone	43	8.952	8.935	0.017	97	76970	4.43	
23 Carbon disulfide	76	9.166	9.160	0.006	94	919	0.0237	
24 Isopropyl alcohol	45	9.235	9.219	0.016	97	21122	1.52	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.931	9.925	0.006	81	2662	0.2087	
28 2-Methyl-2-propanol	59	10.134	10.112	0.022	1	1593	0.0650	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	88	6946	0.4106	
34 1,1-Dichloroethane	63	11.429	11.428	0.001	3	1433	0.0574	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.664	12.653	0.011	96	5234	0.6509	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	71	155419	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83	13.210	13.215	-0.005	79	1701	0.0444	M
43 Cyclohexane	84	13.504	13.509	-0.005	77	2135	0.0986	
44 1,1,1-Trichloroethane	97	13.542	13.531	0.011	93	4672	0.1006	M

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117	13.788	13.782	0.006	90	4732	0.0926	
	46 Isooctane	57	14.189	14.183	0.006	94	8500	0.1449	
	47 Benzene	78	14.248	14.253	-0.005	71	16129	0.3186	M
	48 1,2-Dichloroethane	62	14.419	14.419	0.000	94	2847	0.1172	
	49 n-Heptane	43	14.542	14.531	0.011	84	1767	0.0967	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	747905	10.0	
	53 Trichloroethene	95	15.473	15.478	-0.005	61	1233	0.0475	M
	54 1,2-Dichloropropane	63		16.013				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
	65 Toluene	92	17.955	17.960	-0.005	93	28277	0.6541	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.859				ND	
	68 Tetrachloroethene	166		18.987				ND	
	69 2-Hexanone	43		19.260				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106				0		0.4488	
*	74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	747268	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91	20.903	20.897	0.006	96	9140	0.0945	
	78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	12924	0.3309	
	79 o-Xylene	106	21.802	21.801	0.001	97	4537	0.1178	
	80 Styrene	104	21.839	21.839	0.000	83	2305	0.0382	M
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105	22.342	22.352	-0.010	84	1733	0.0147	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91	22.979	22.973	0.006	97	2592	0.0183	
	88 4-Ethyltoluene	105	23.139	23.144	-0.005	95	2728	0.0209	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105	23.225	23.235	-0.010	93	3351	0.0297	M
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	95	9257	0.0829	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119	24.262	24.268	-0.006	94	2844	0.0206	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146	24.476	24.482	-0.006	92	2129	0.0233	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.920				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128	28.778	28.767	0.011	1	3129	0.0221	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

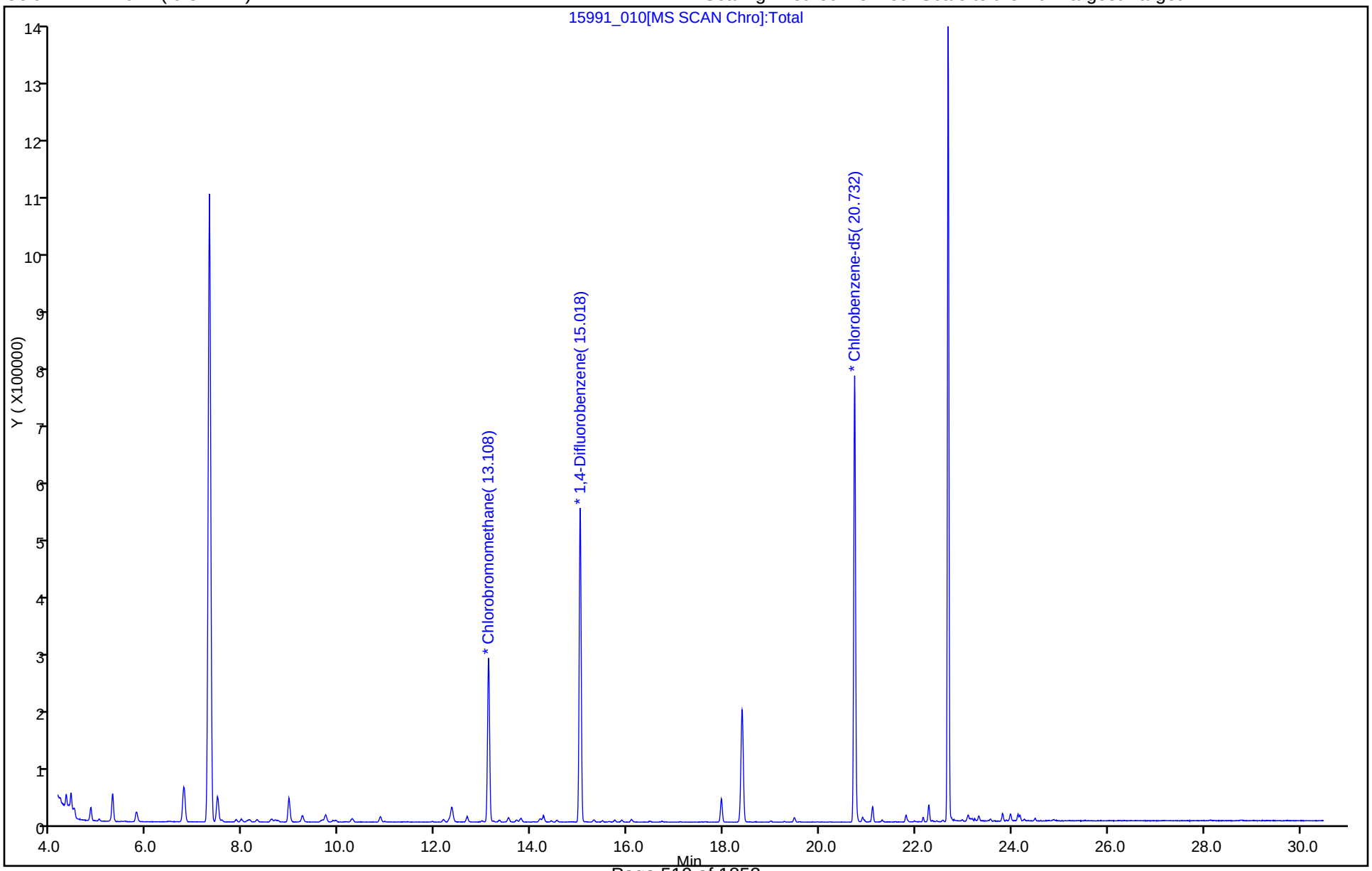
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6	Worklist Smp#:	10
Client ID:	FR-IA03-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

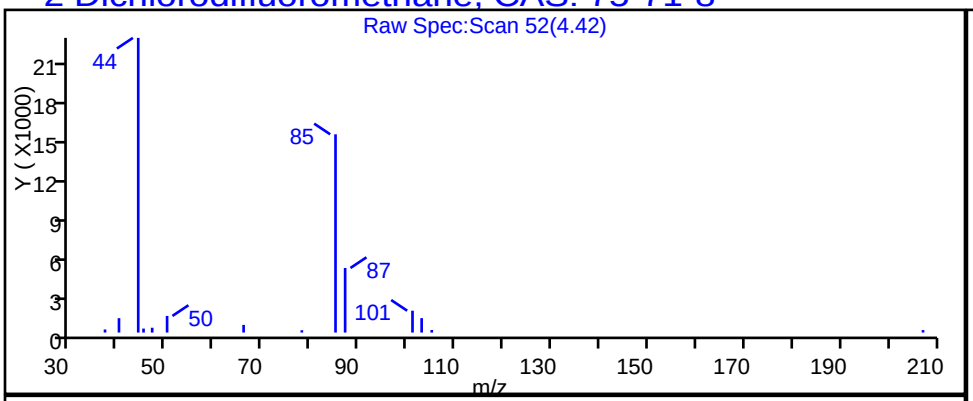


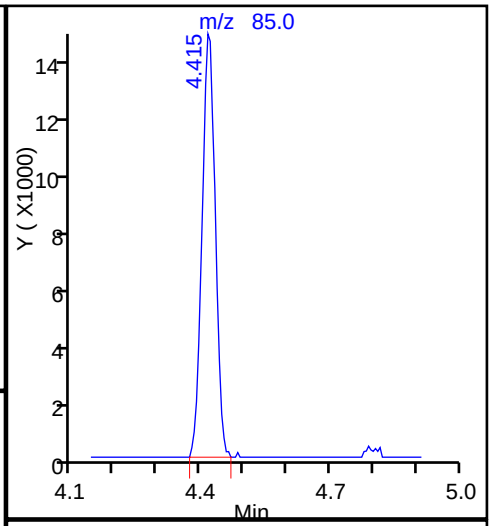
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

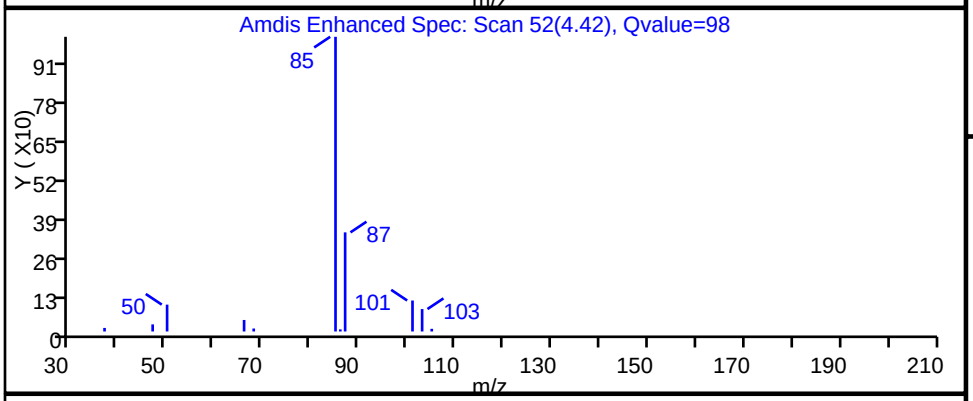
TestAmerica Burlington

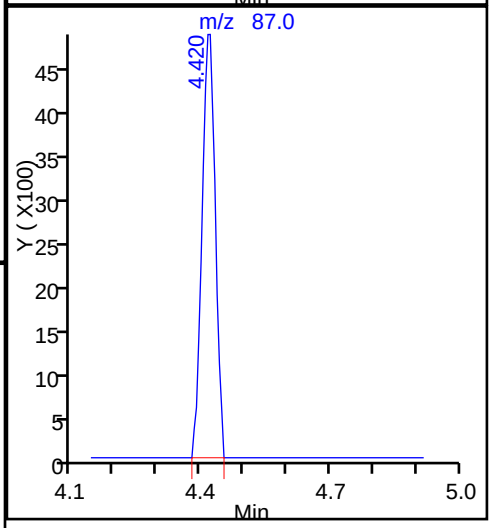
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

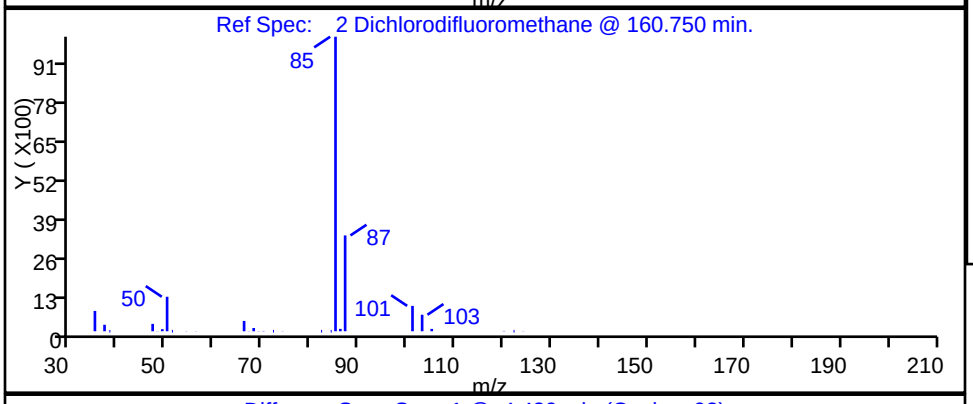
2 Dichlorodifluoromethane, CAS: 75-71-8

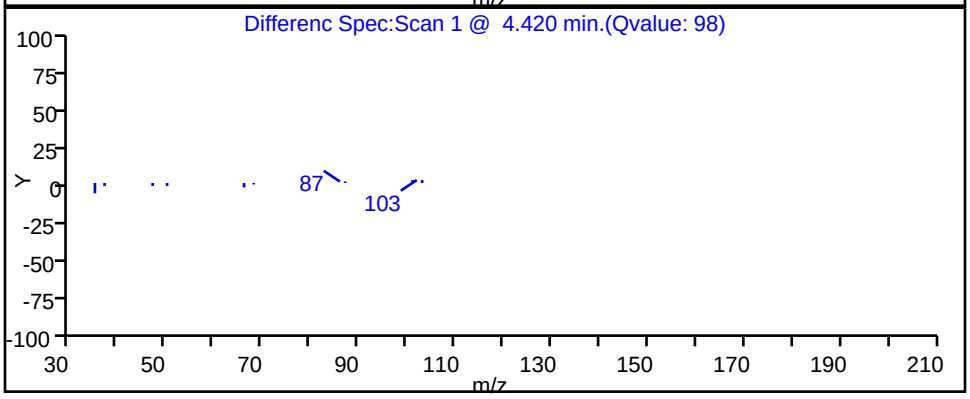












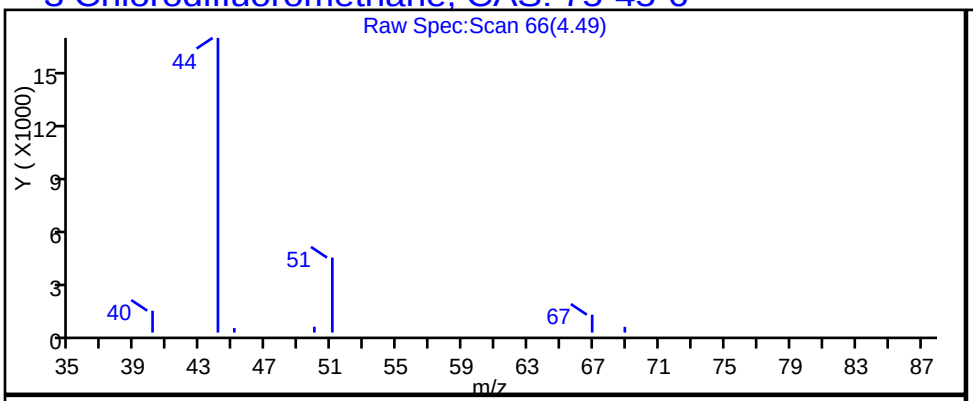
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

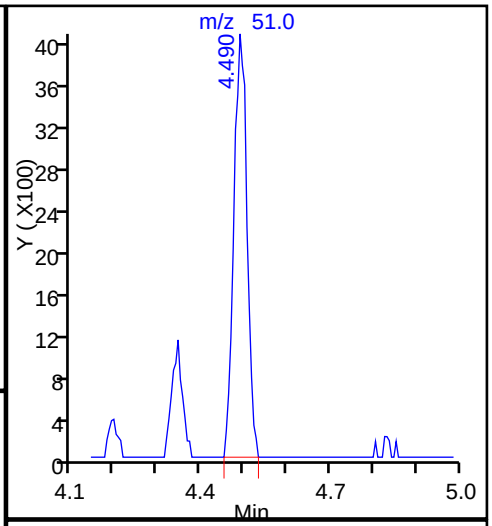
TestAmerica Burlington

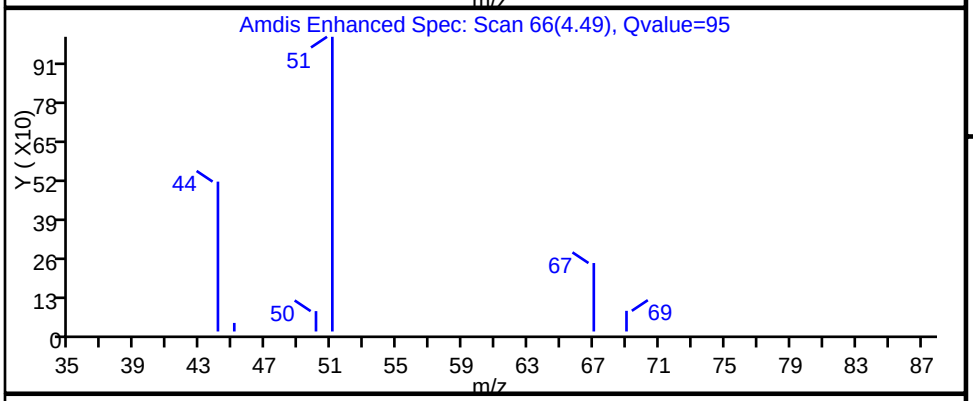
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

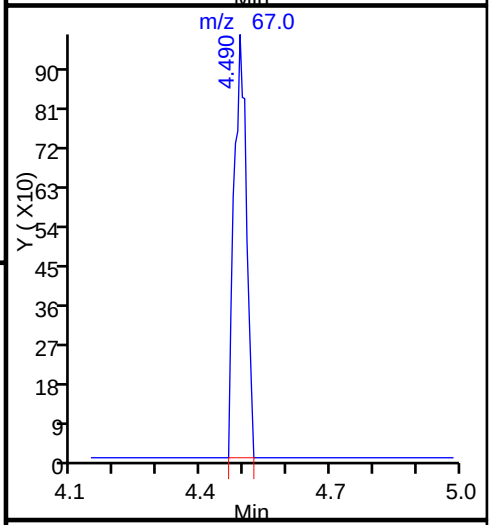
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

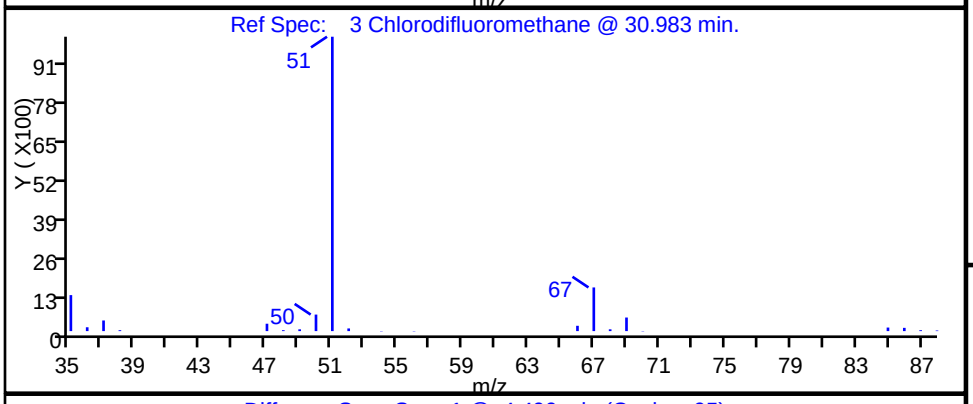
3 Chlorodifluoromethane, CAS: 75-45-6

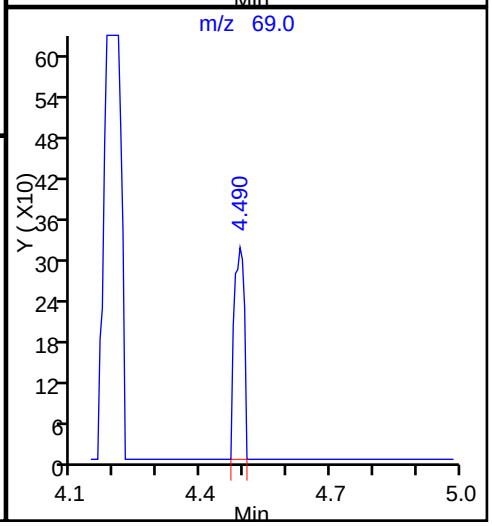


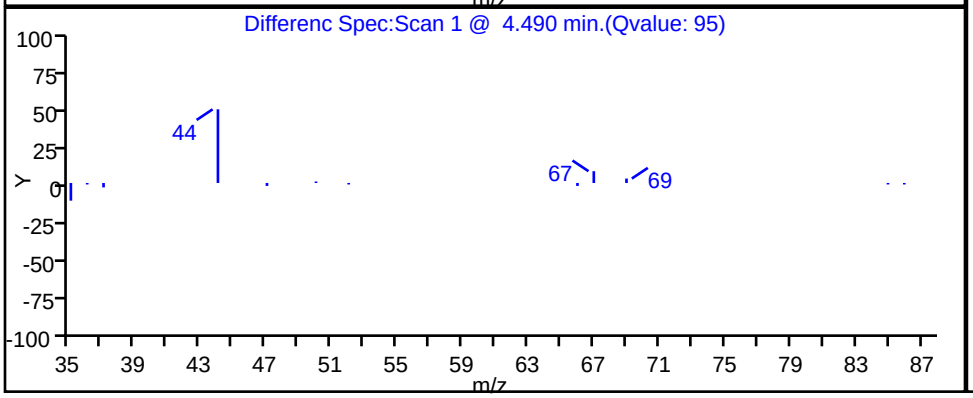












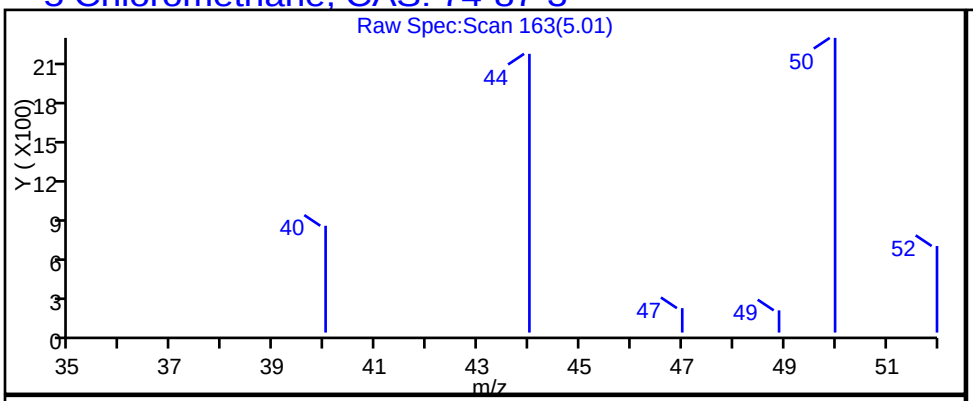
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

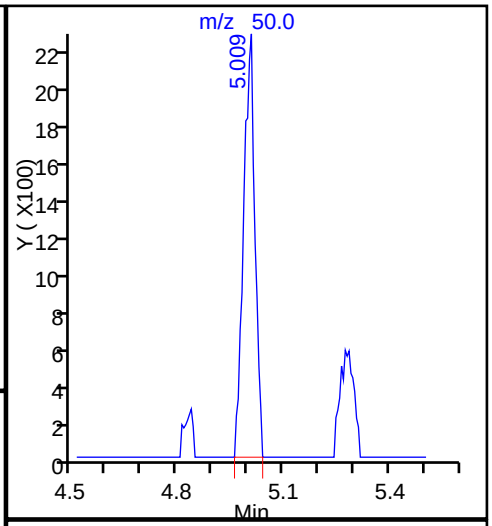
TestAmerica Burlington

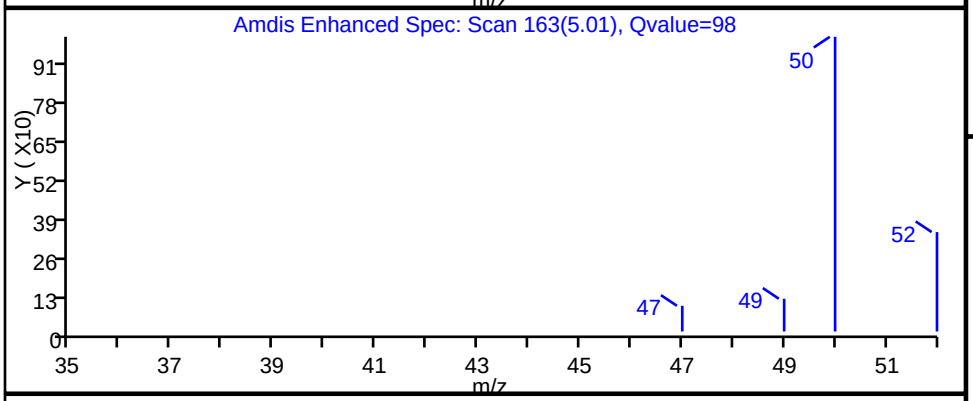
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

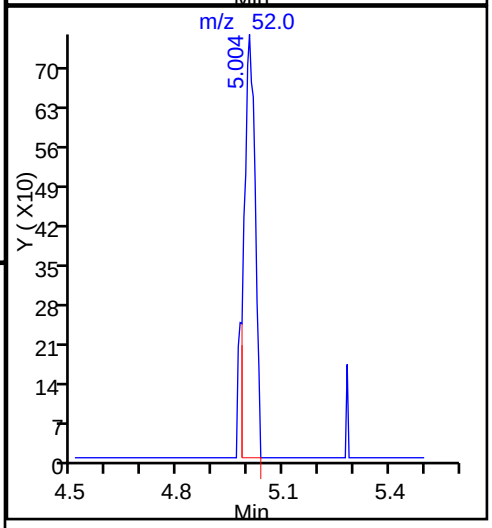
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

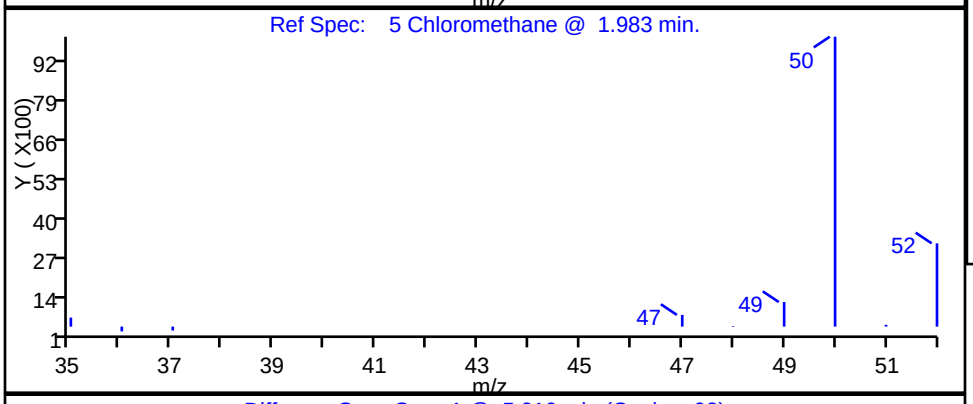
5 Chloromethane, CAS: 74-87-3

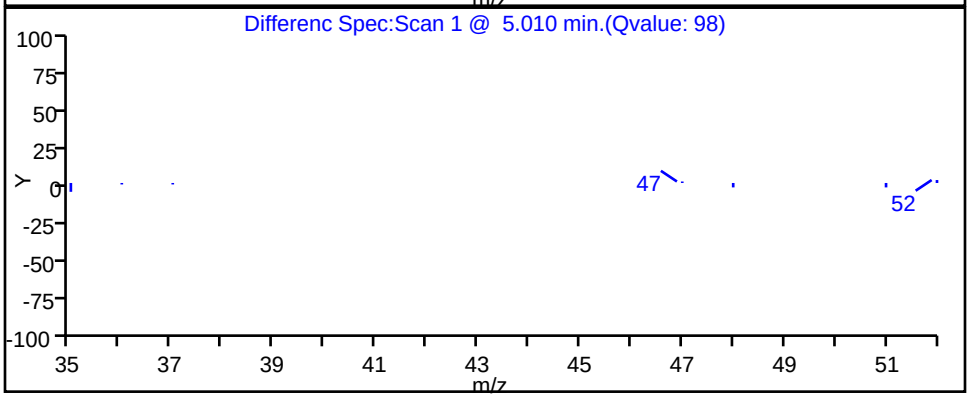












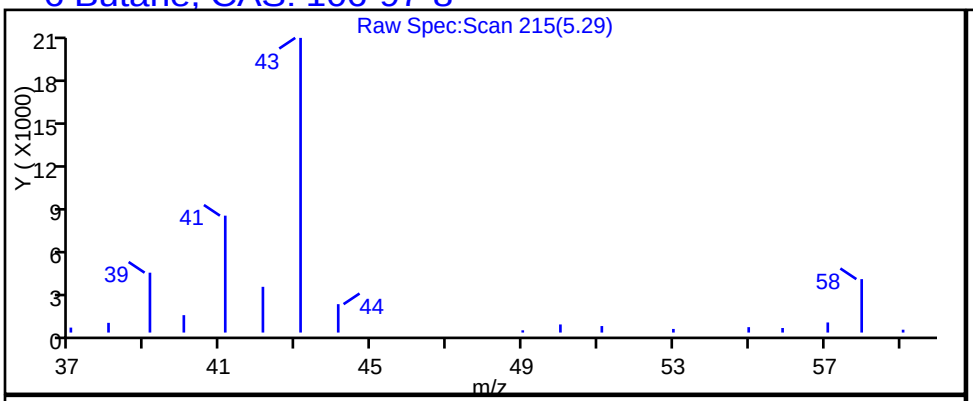
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

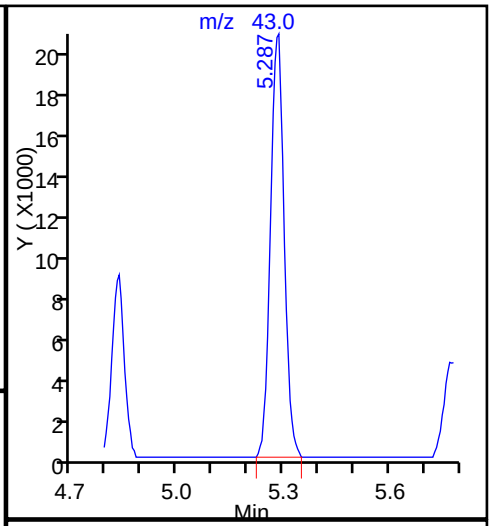
TestAmerica Burlington

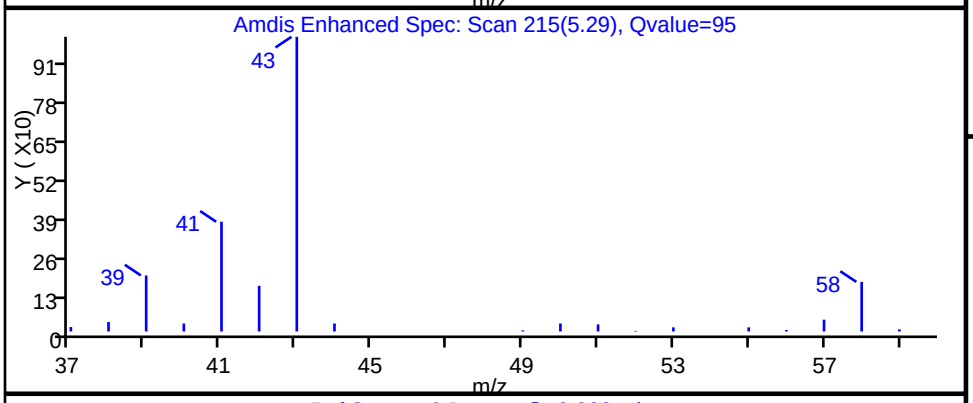
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

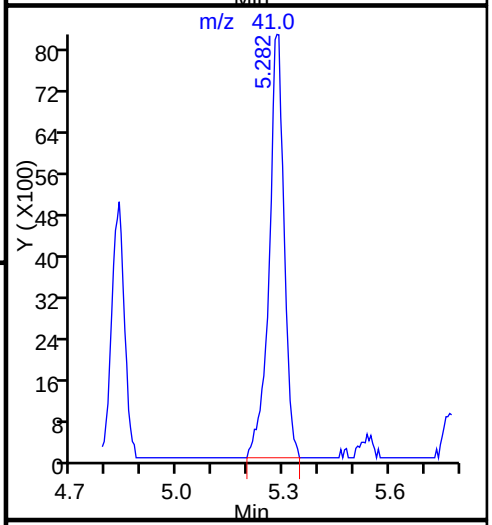
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

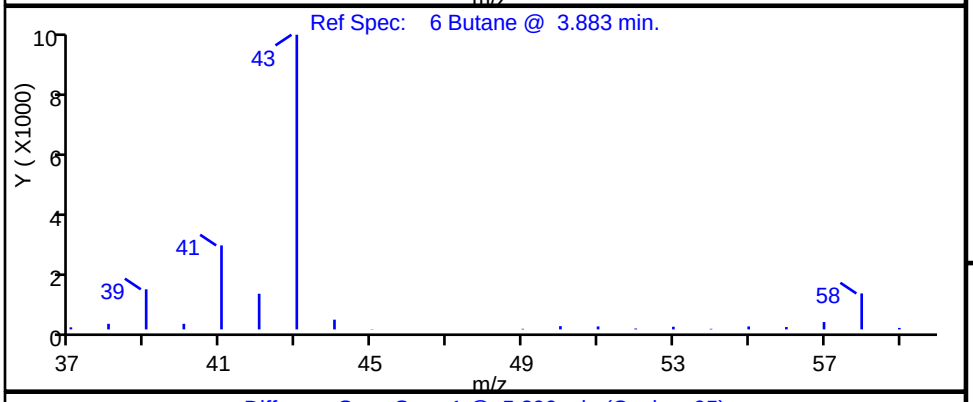
6 Butane, CAS: 106-97-8

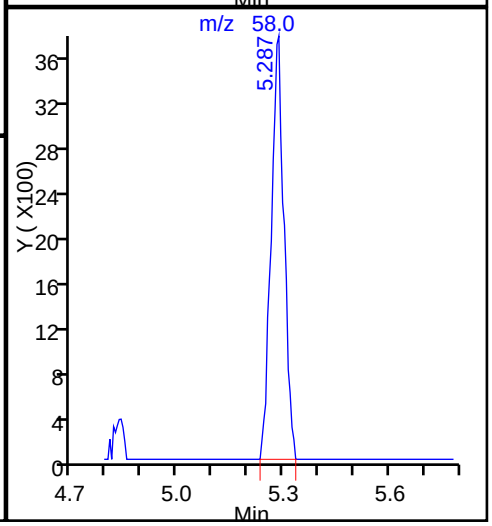


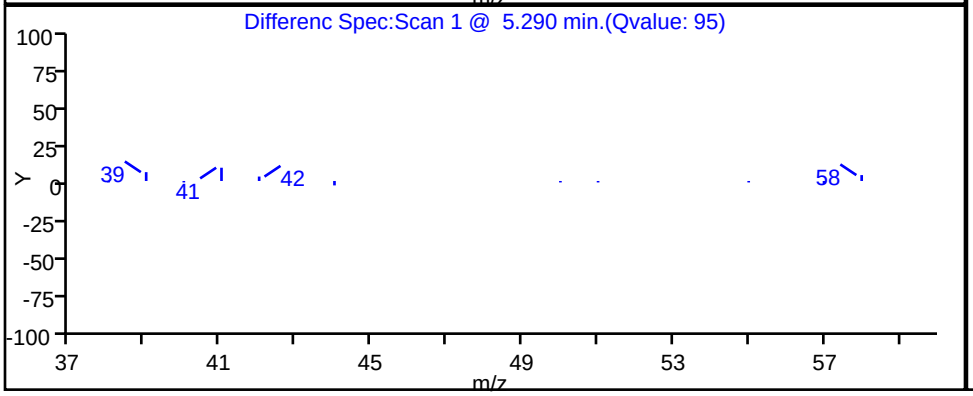












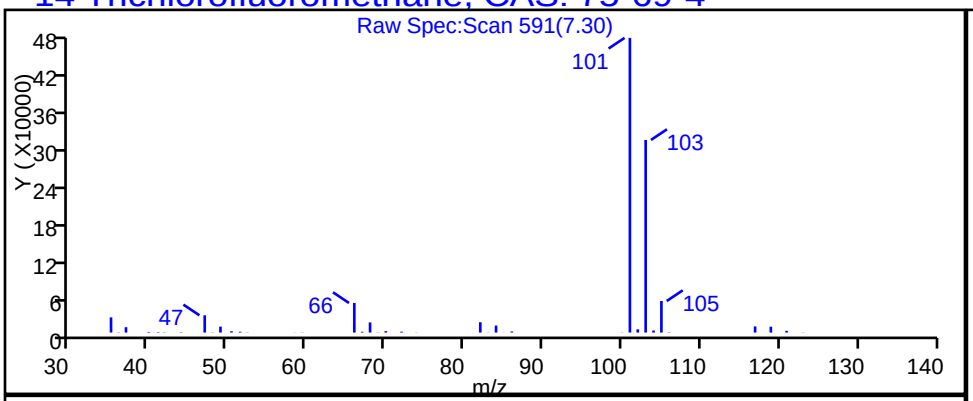
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

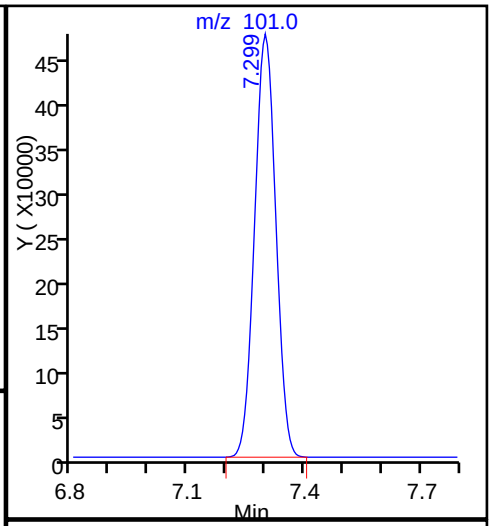
TestAmerica Burlington

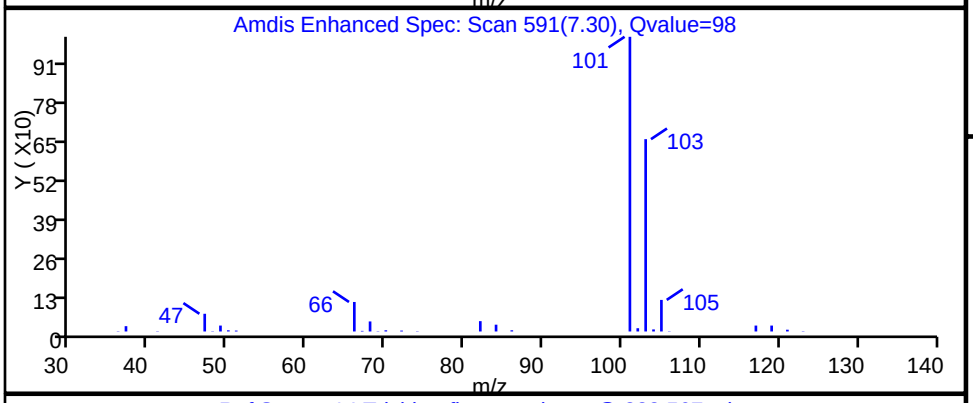
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

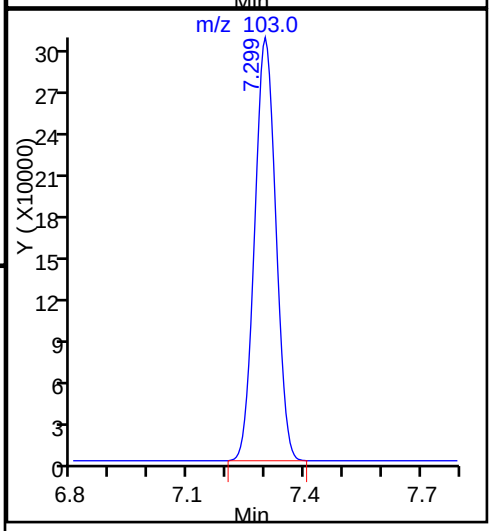
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

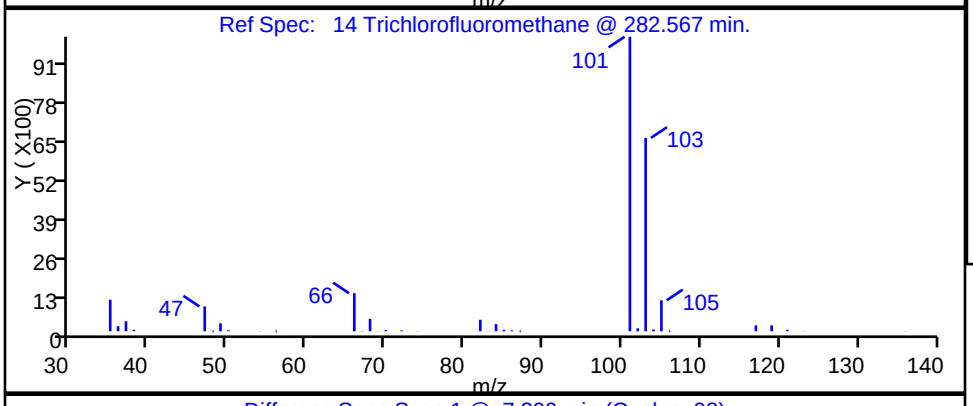
14 Trichlorofluoromethane, CAS: 75-69-4

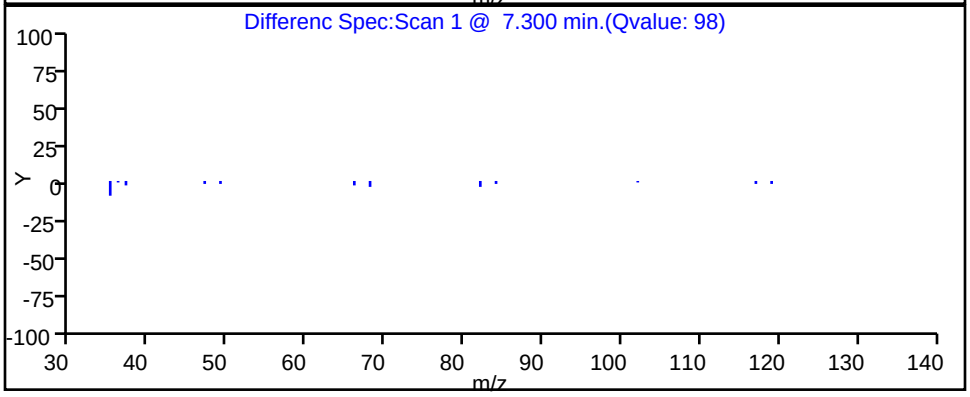










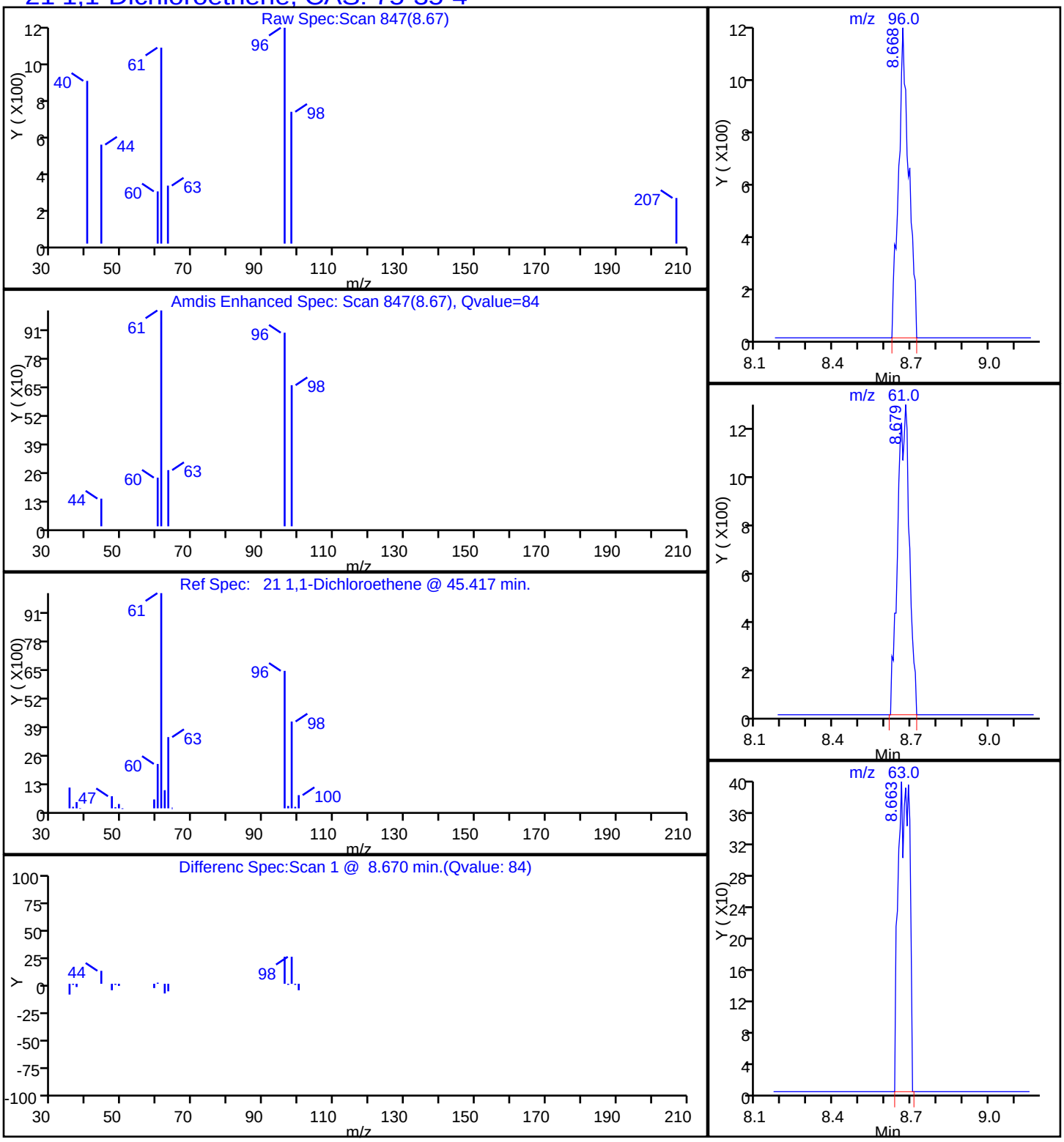


Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

21 1,1-Dichloroethene, CAS: 75-35-4



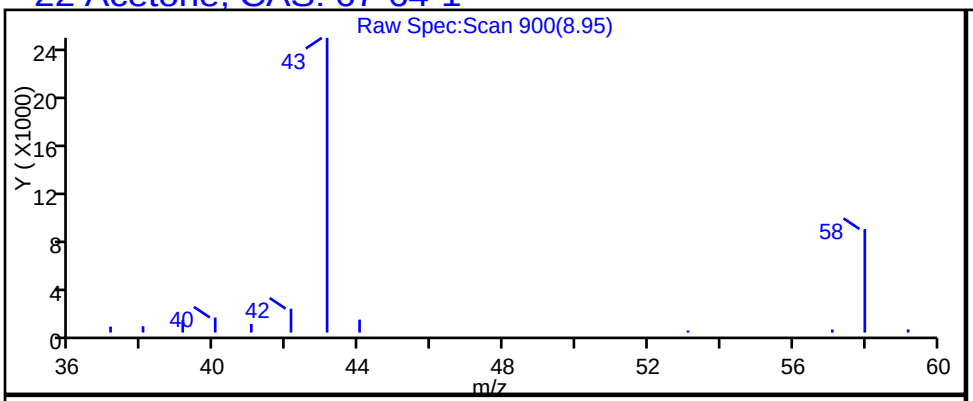
Report Date: 30-Sep-2015 14:17:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

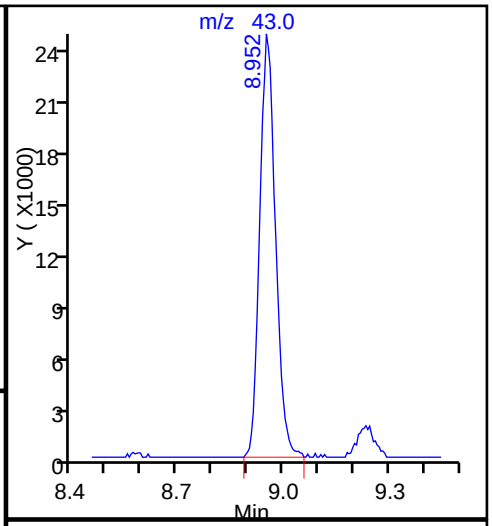
TestAmerica Burlington

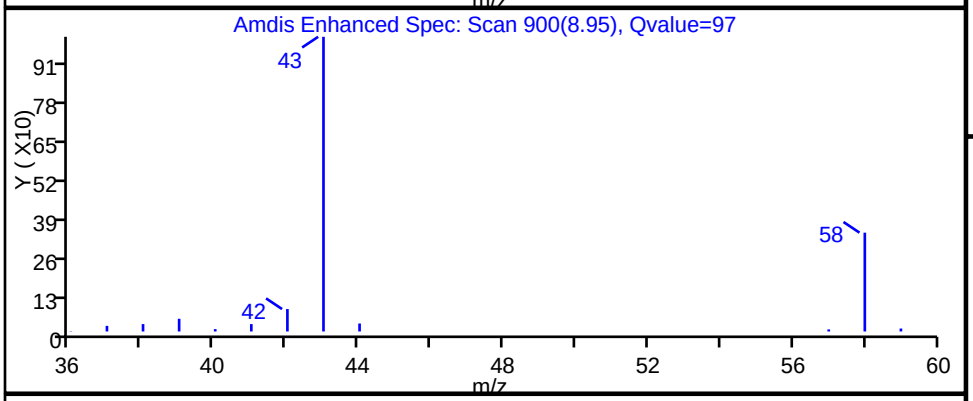
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

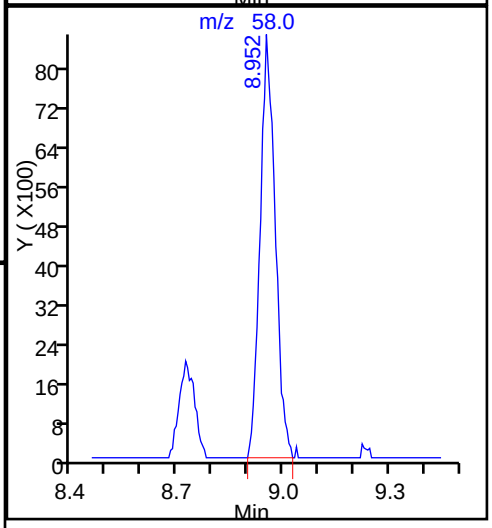
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6
Client ID:	FR-IA03-092315		
Operator ID:	pad	ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

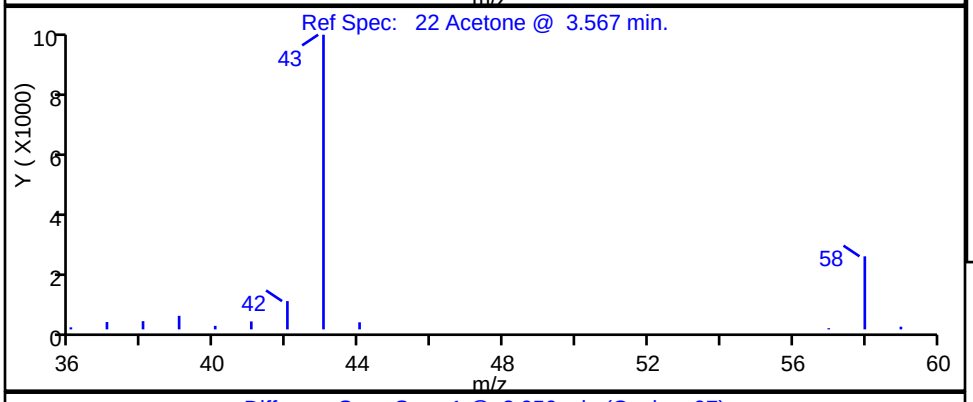
22 Acetone, CAS: 67-64-1

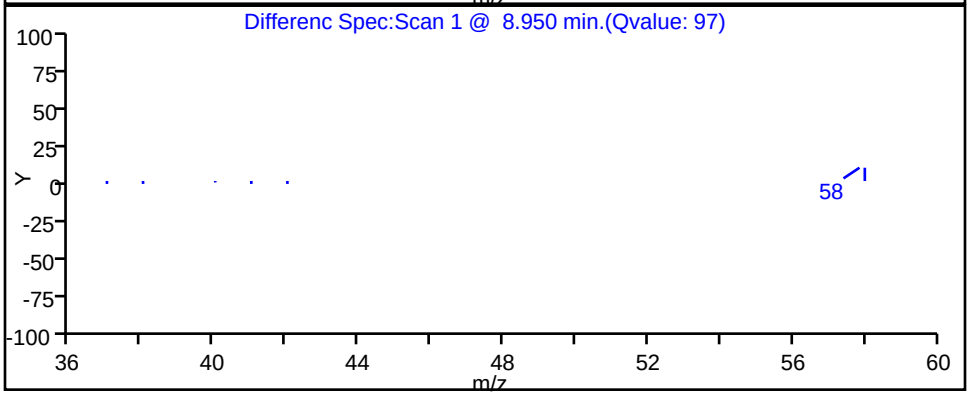












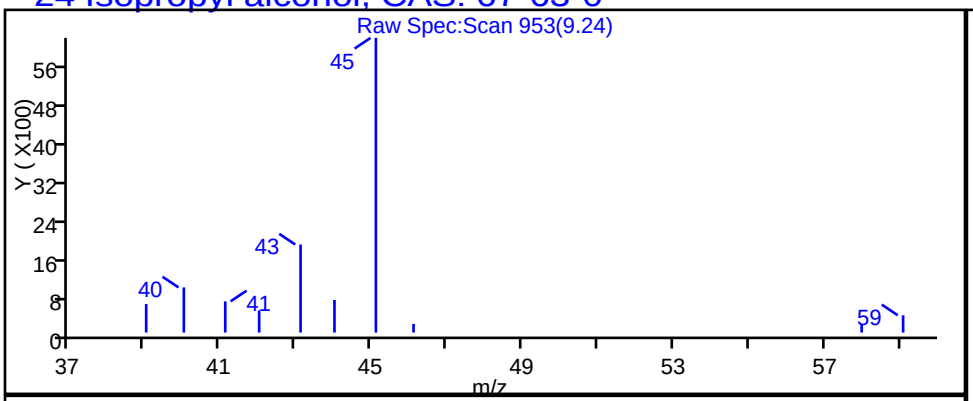
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

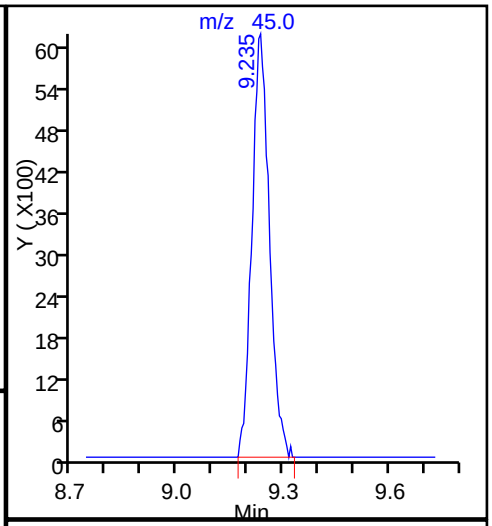
TestAmerica Burlington

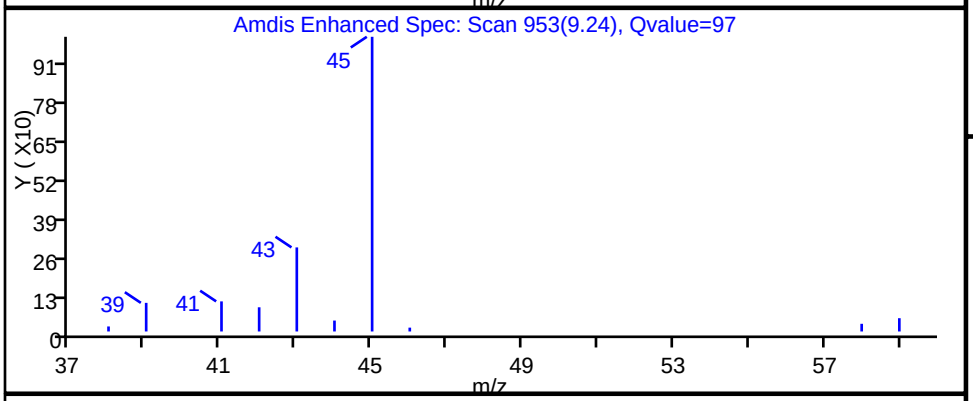
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

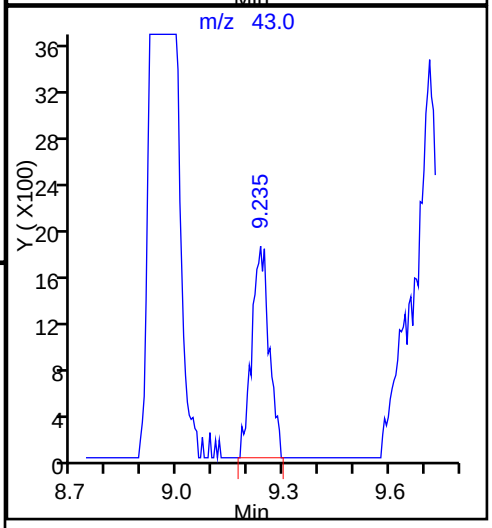
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

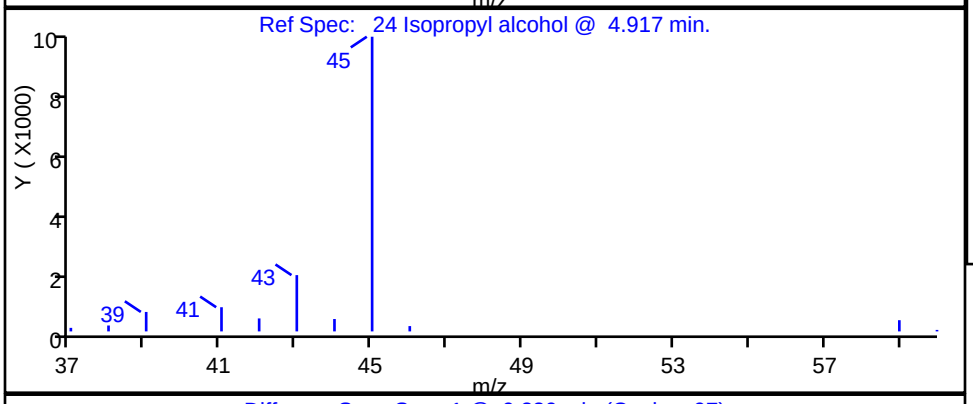
24 Isopropyl alcohol, CAS: 67-63-0

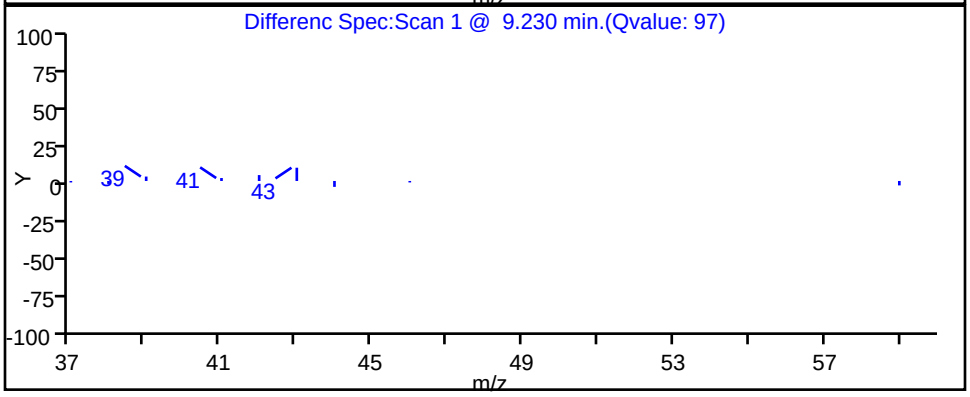












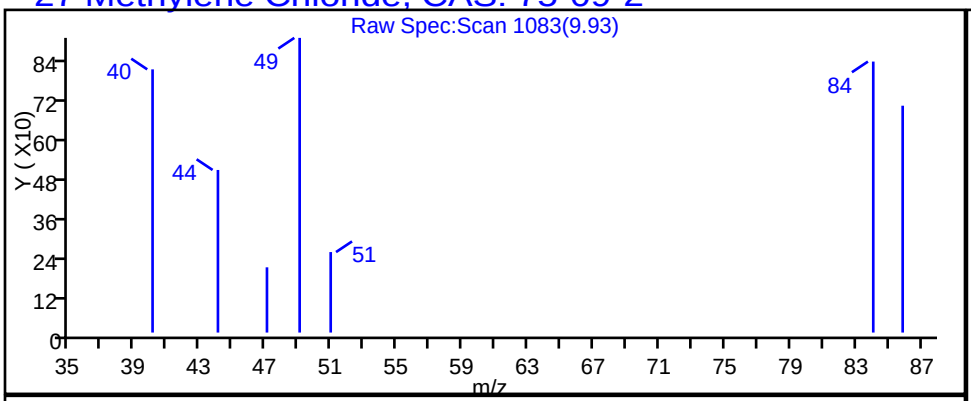
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

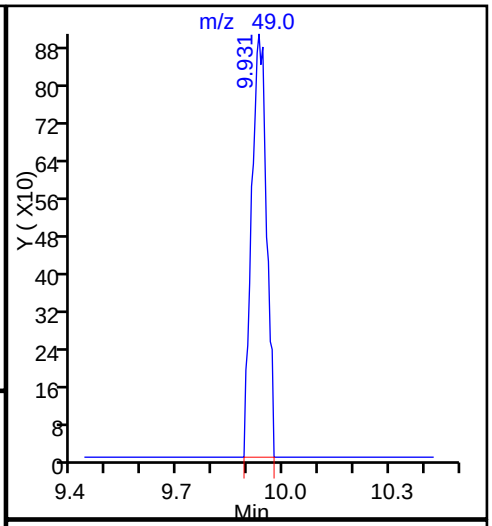
TestAmerica Burlington

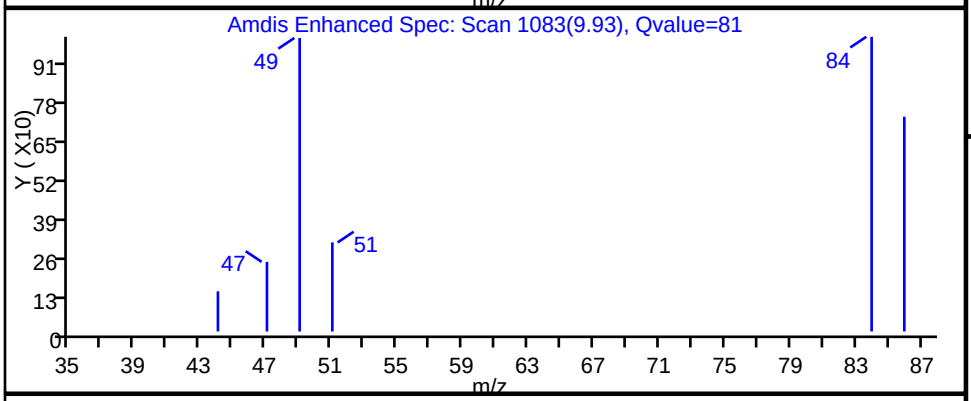
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

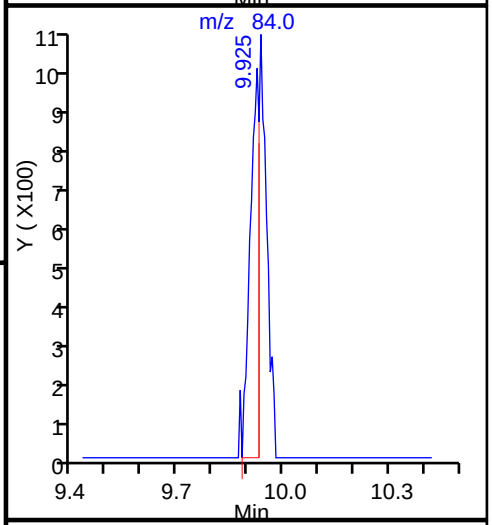
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

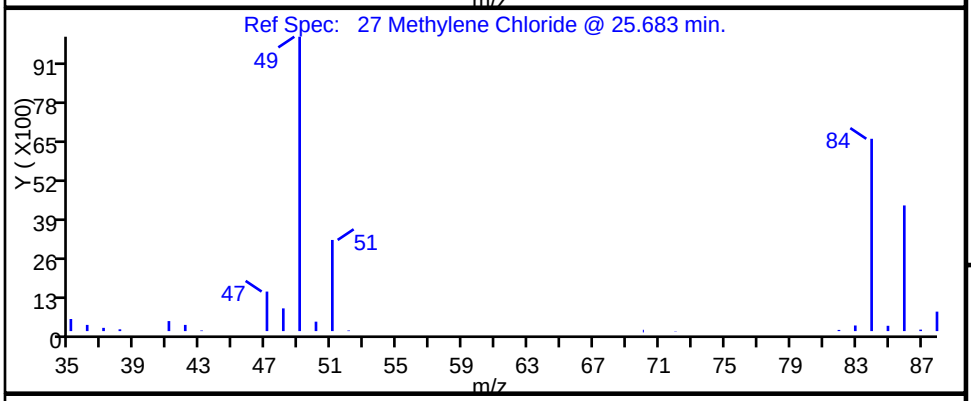
27 Methylene Chloride, CAS: 75-09-2

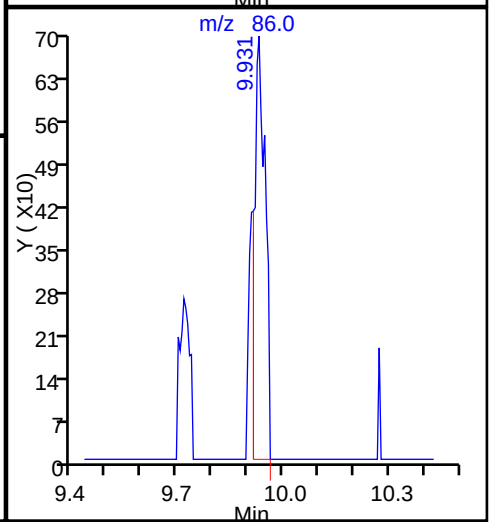


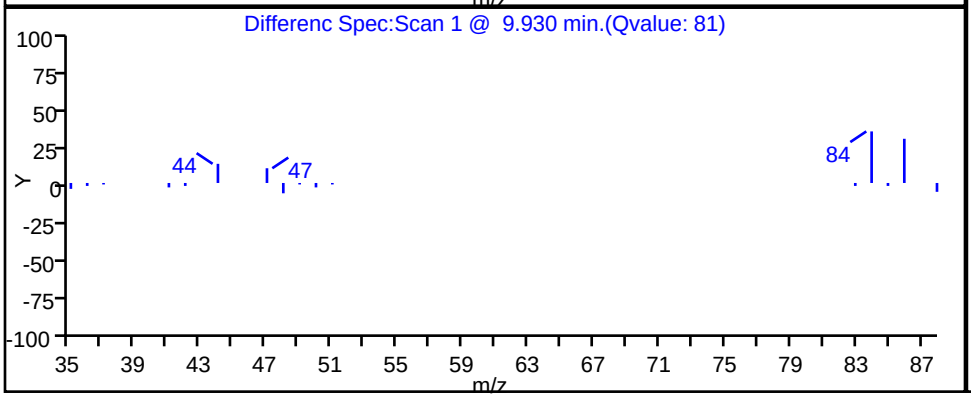










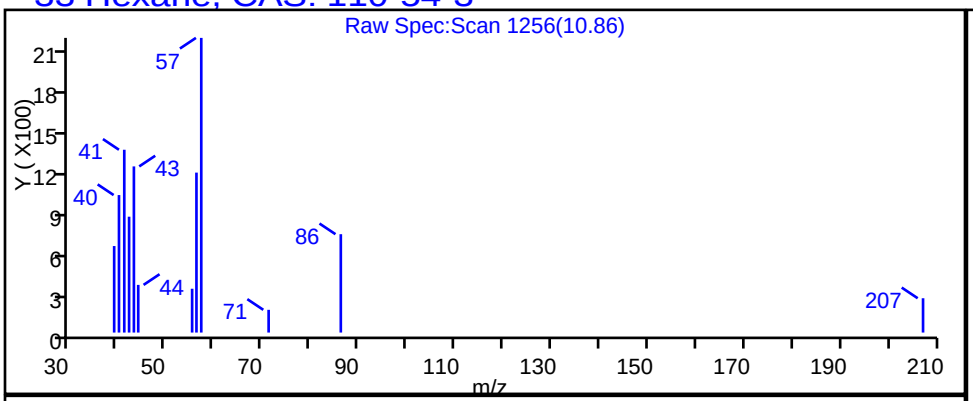


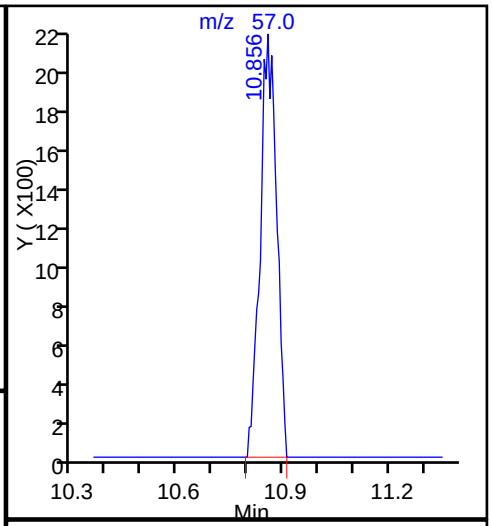
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

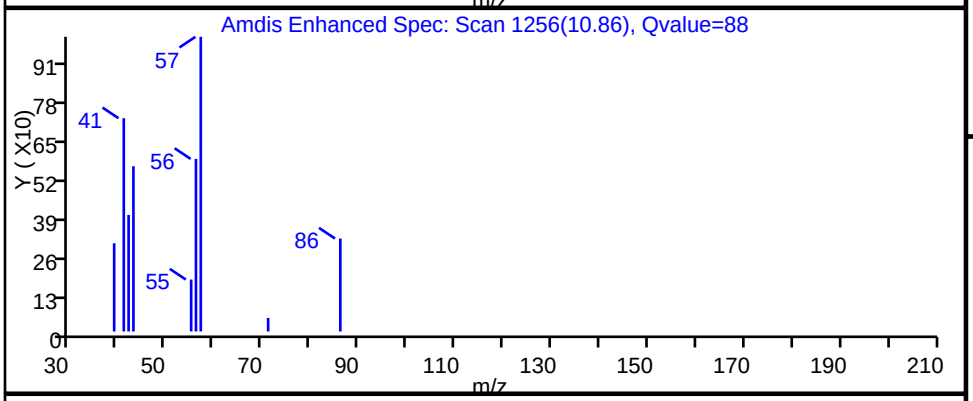
TestAmerica Burlington

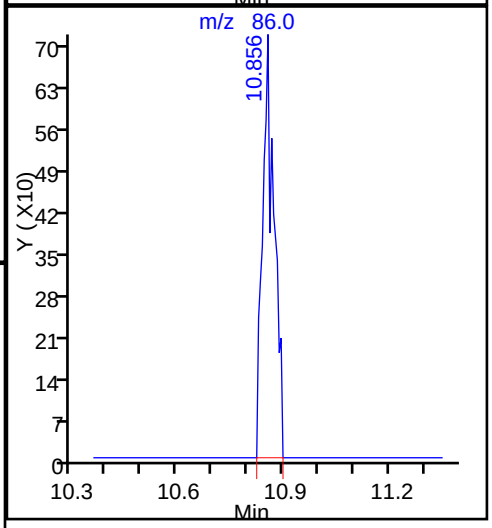
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

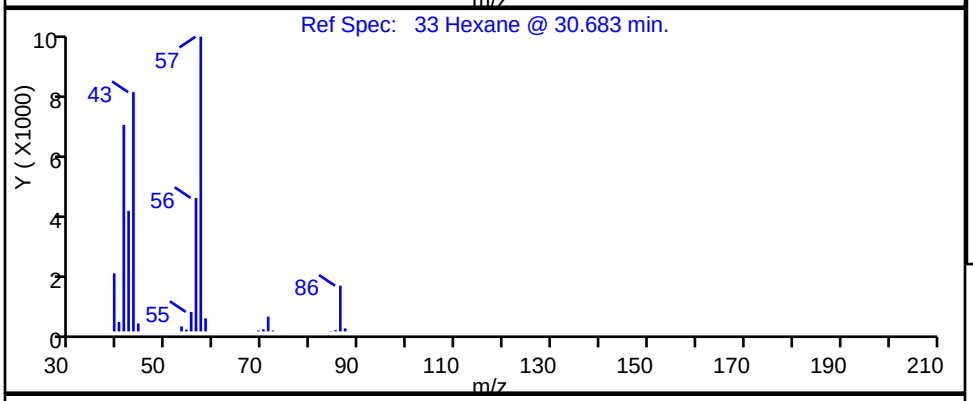
33 Hexane, CAS: 110-54-3

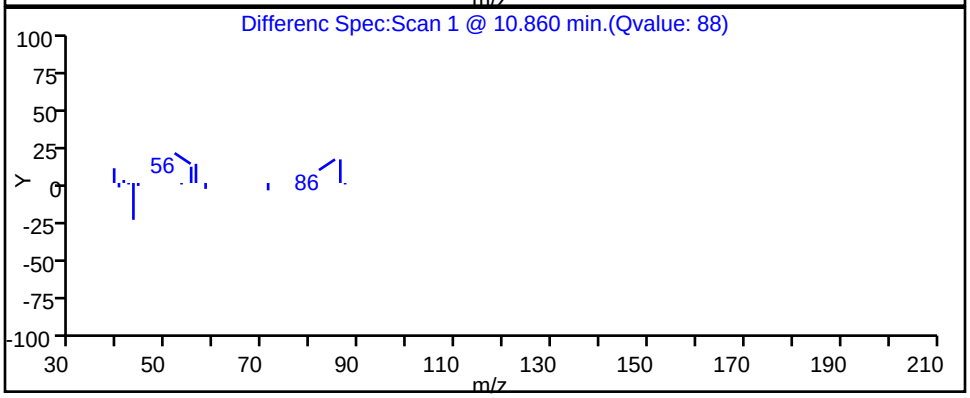












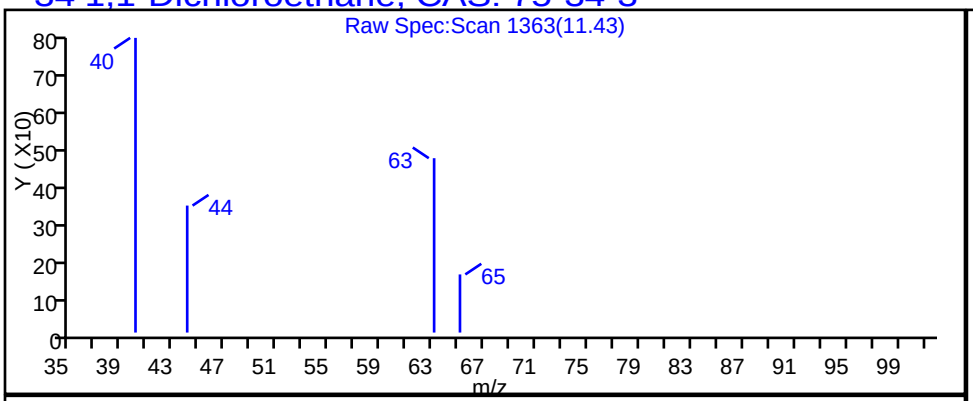
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

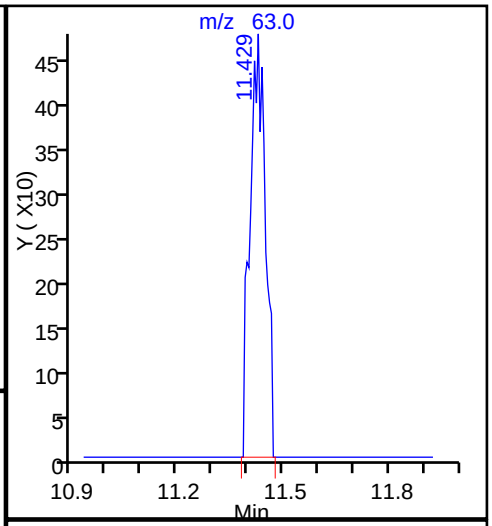
TestAmerica Burlington

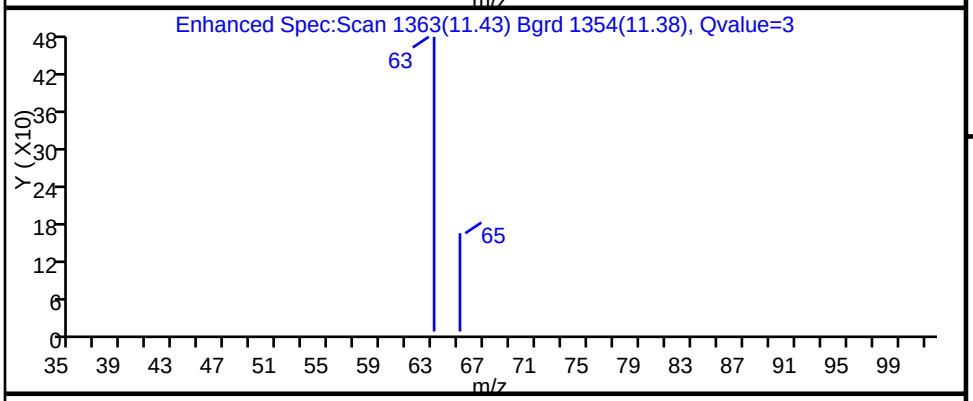
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

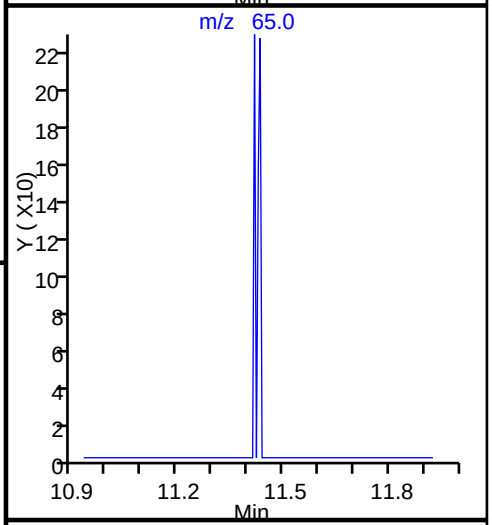
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

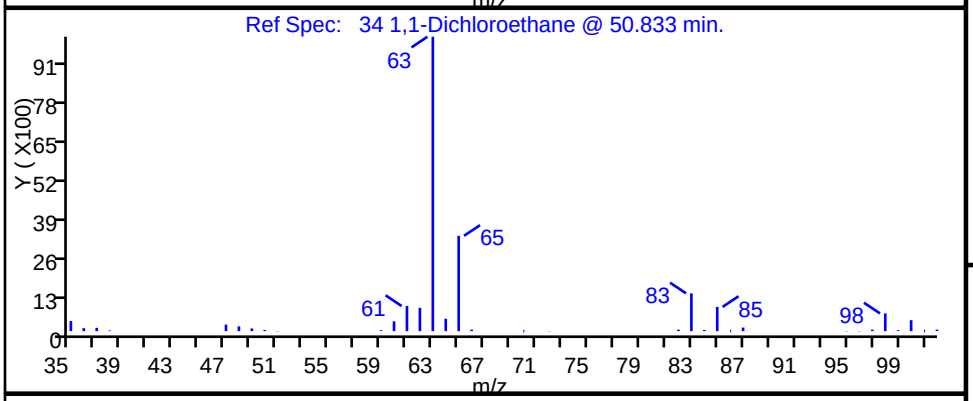
34 1,1-Dichloroethane, CAS: 75-34-3

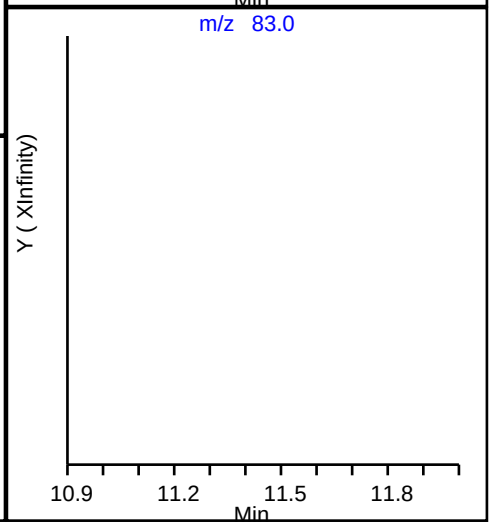


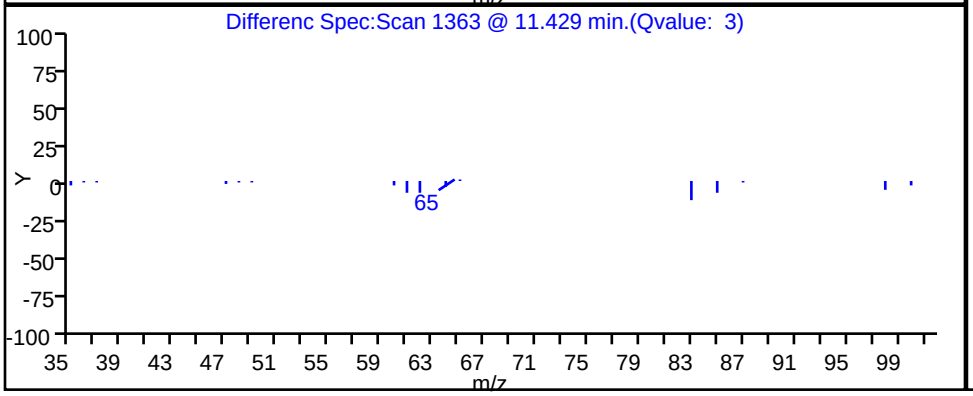










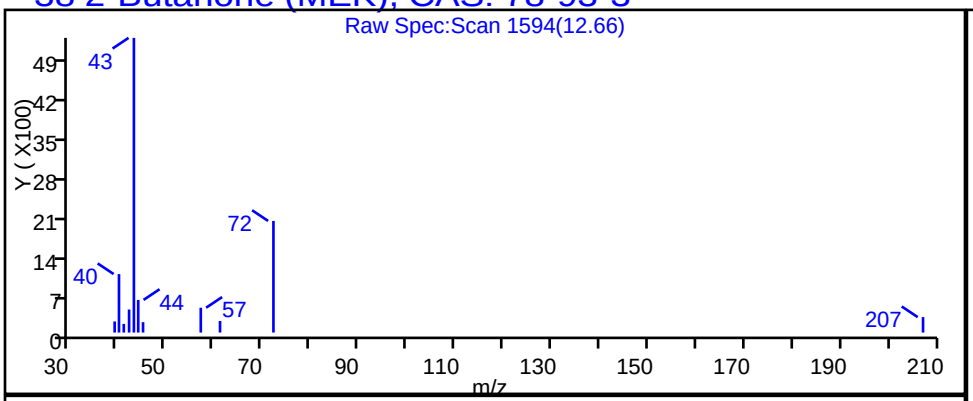


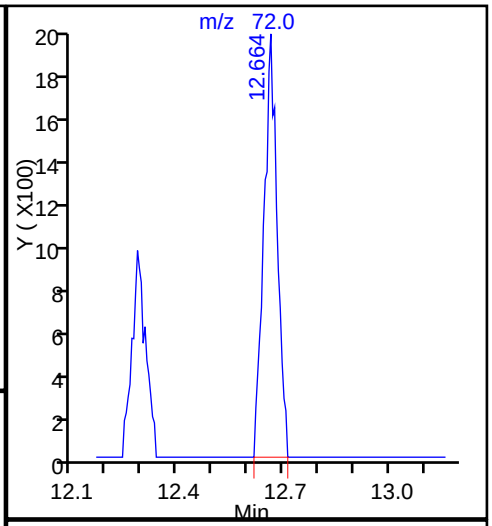
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

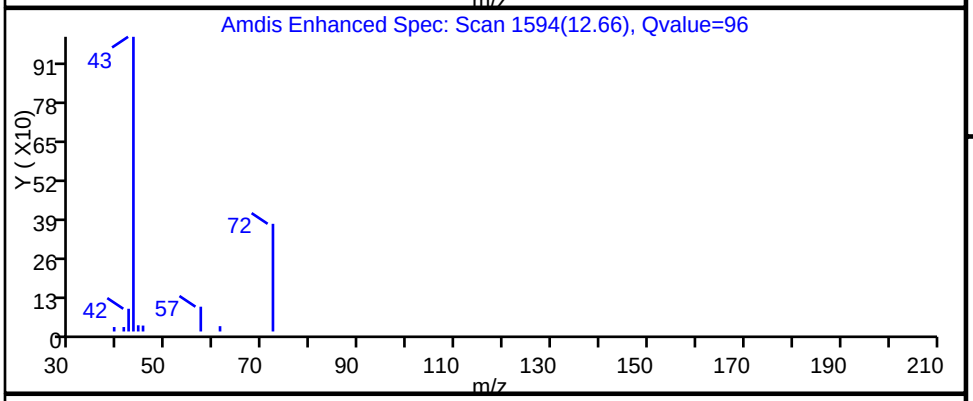
TestAmerica Burlington

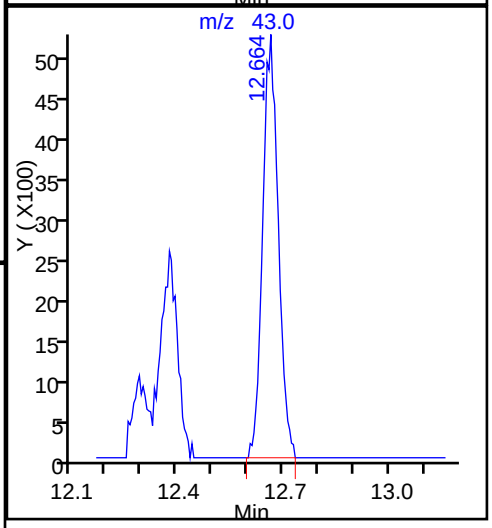
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

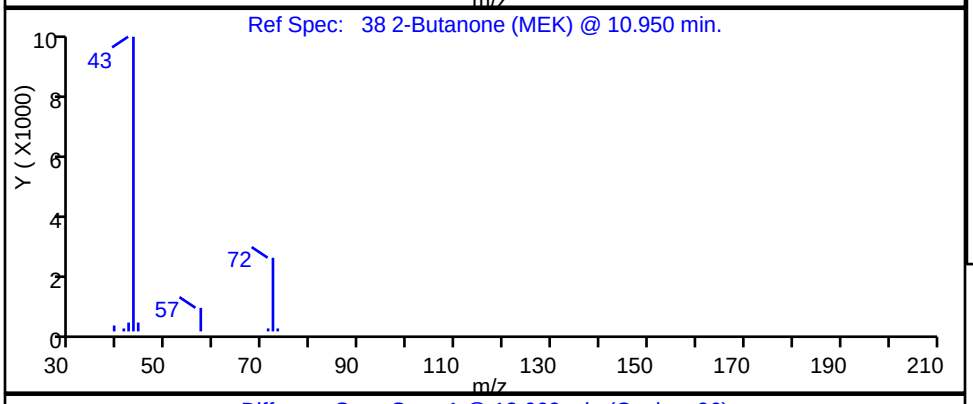
38 2-Butanone (MEK), CAS: 78-93-3

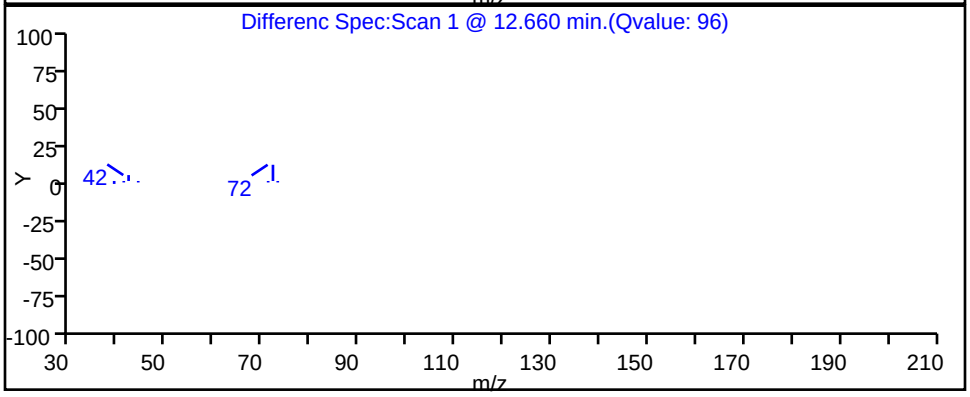












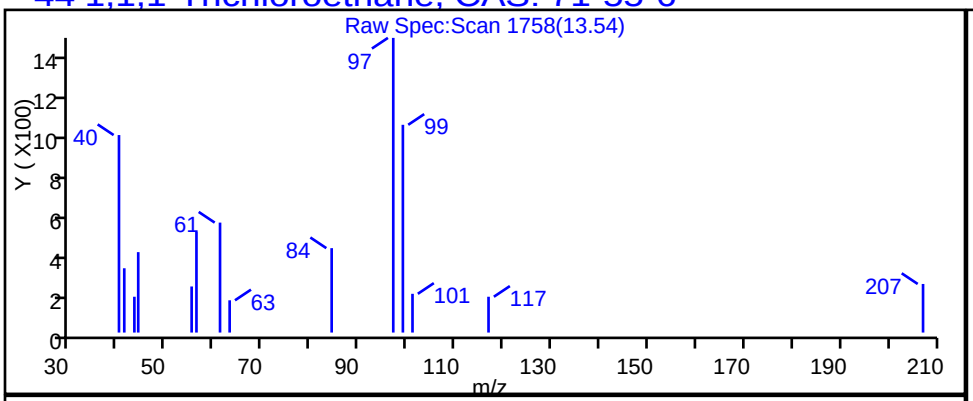
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

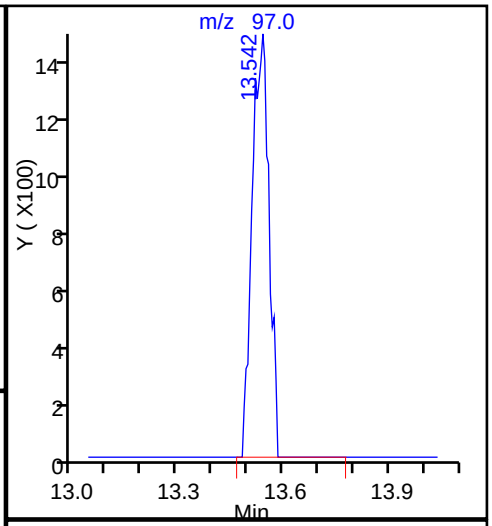
TestAmerica Burlington

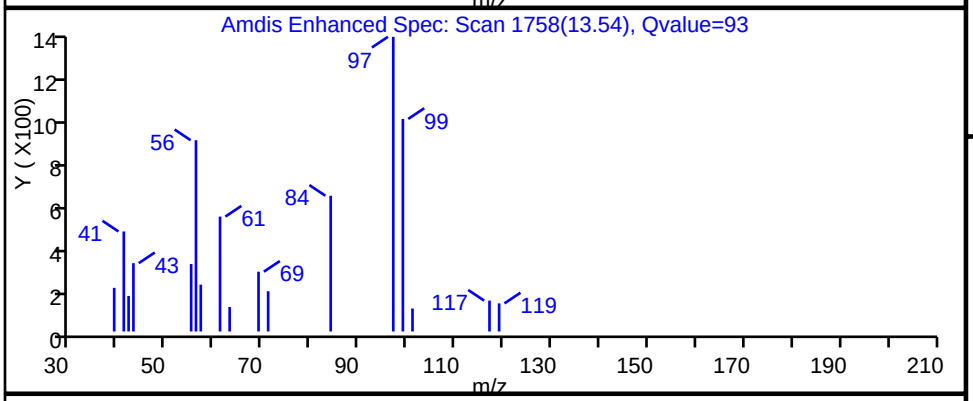
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

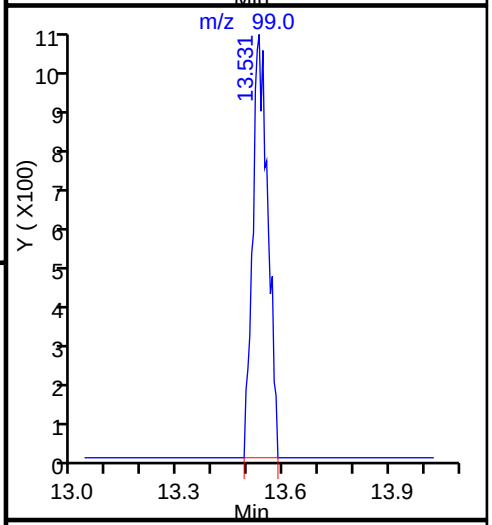
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

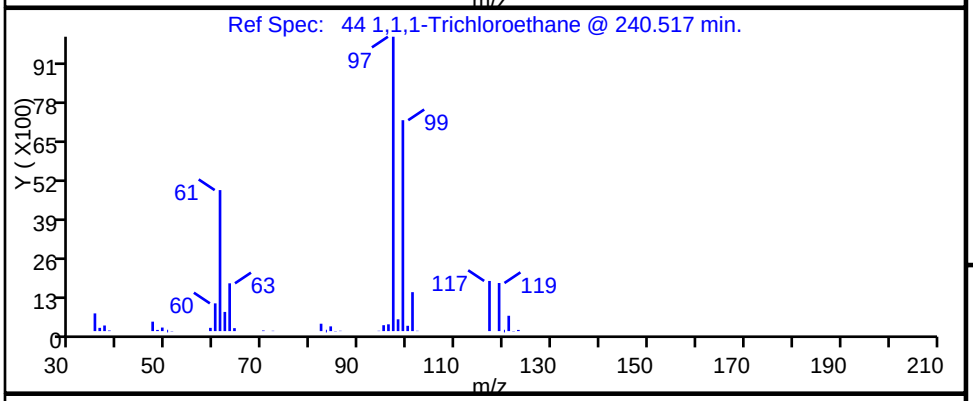
44 1,1,1-Trichloroethane, CAS: 71-55-6

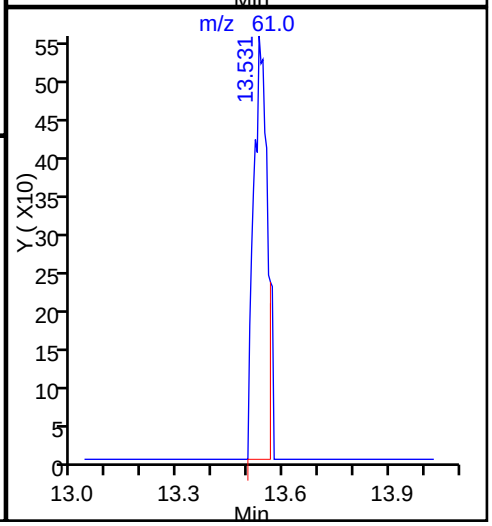


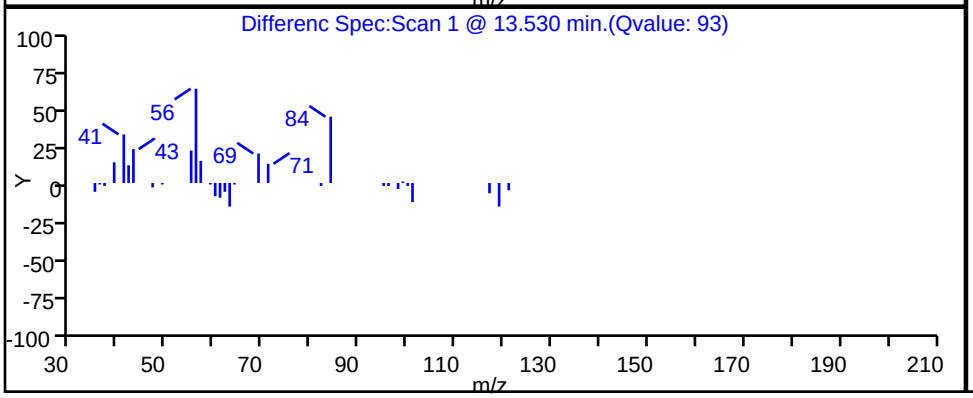












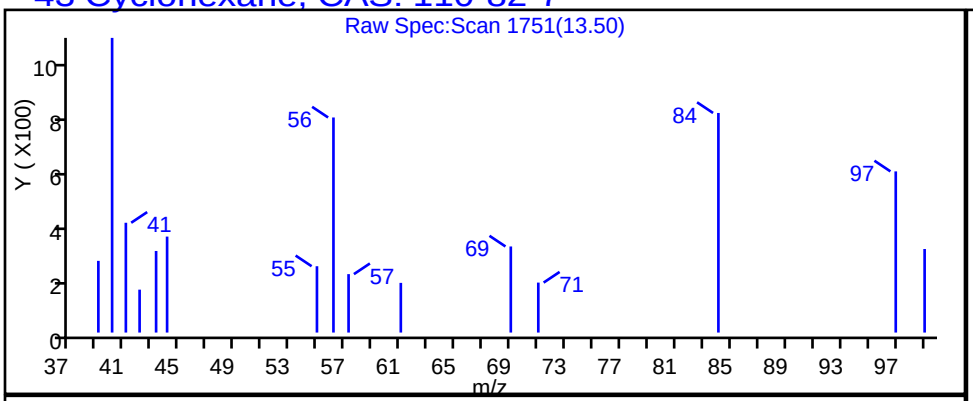
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

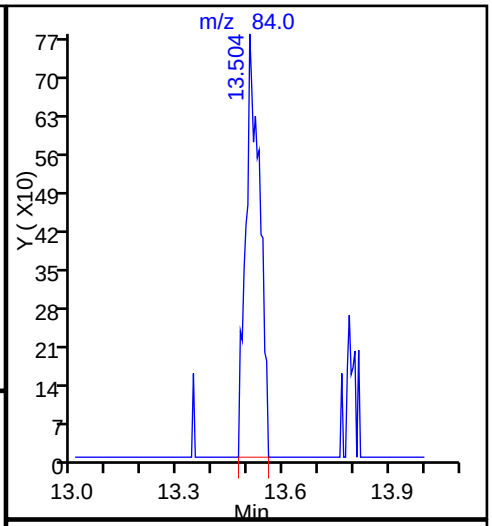
TestAmerica Burlington

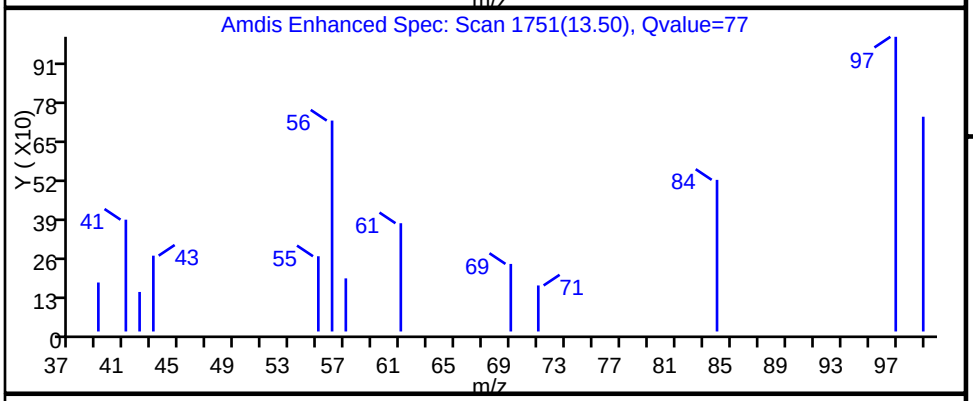
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

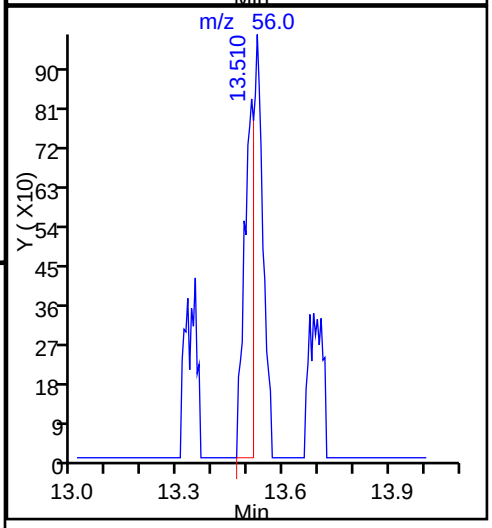
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

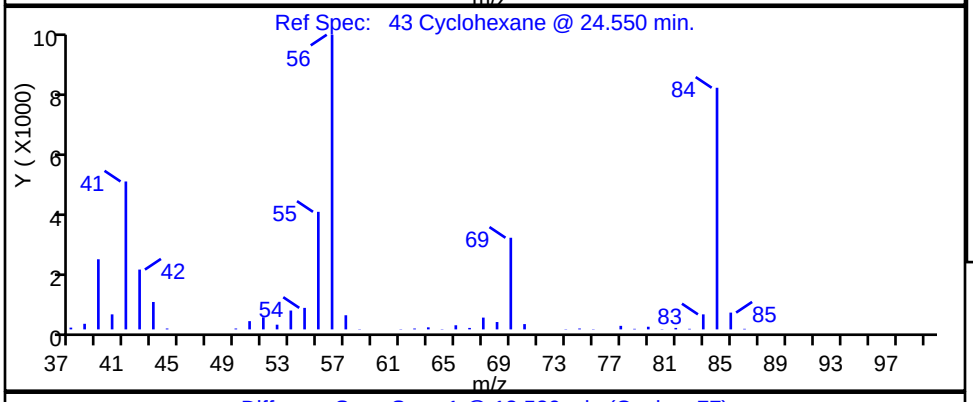
43 Cyclohexane, CAS: 110-82-7

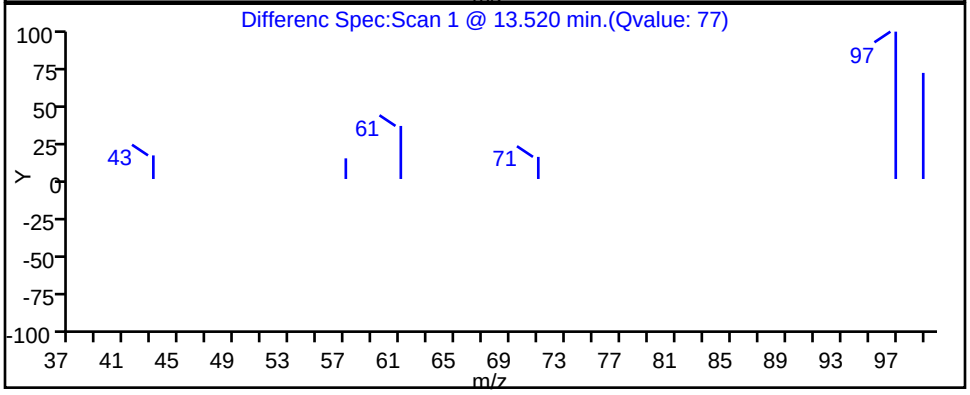










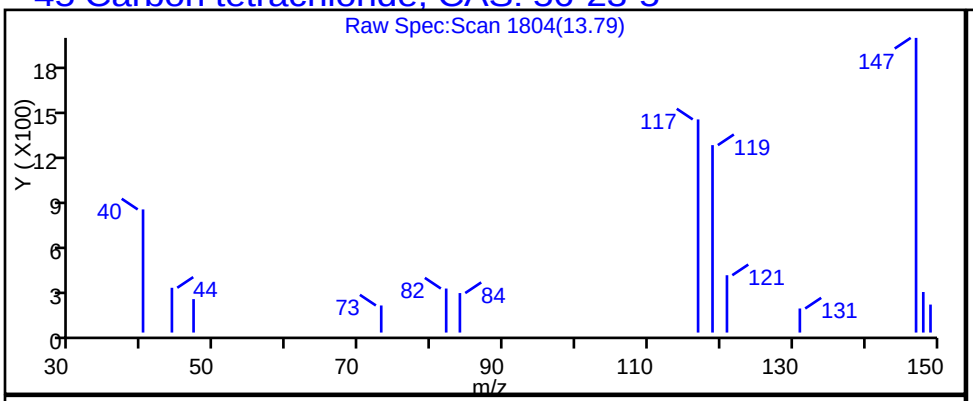


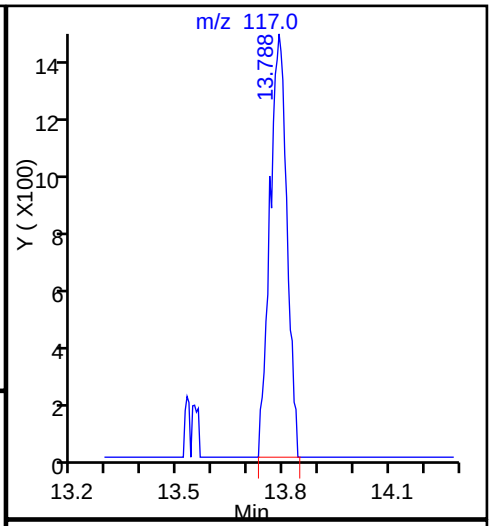
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

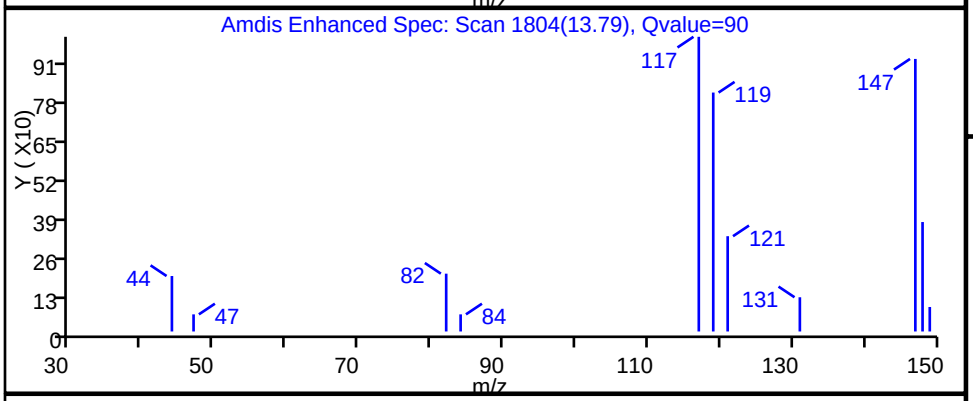
TestAmerica Burlington

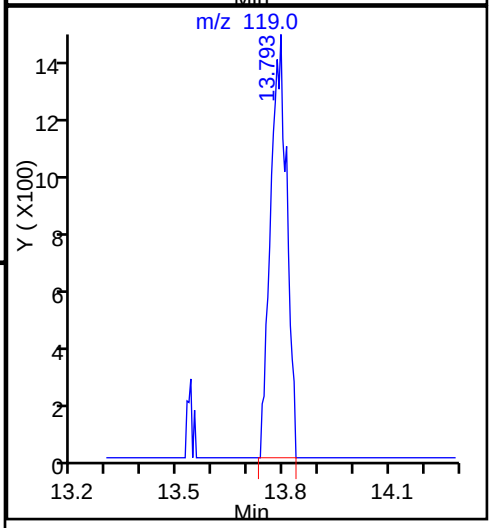
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

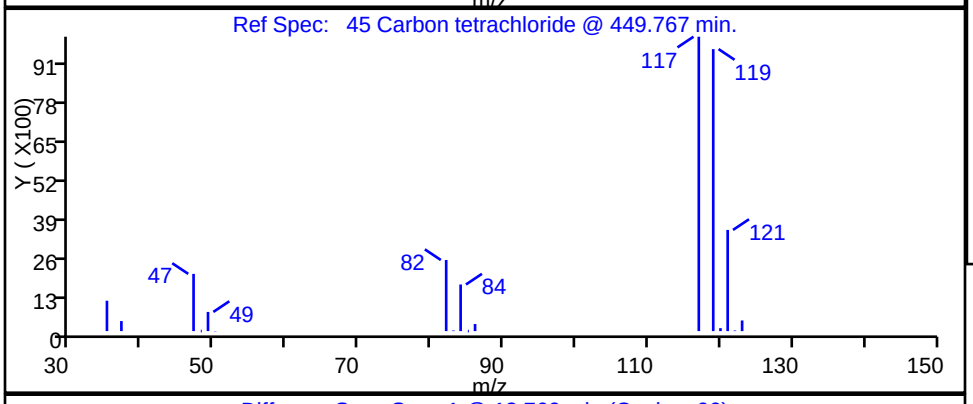
45 Carbon tetrachloride, CAS: 56-23-5

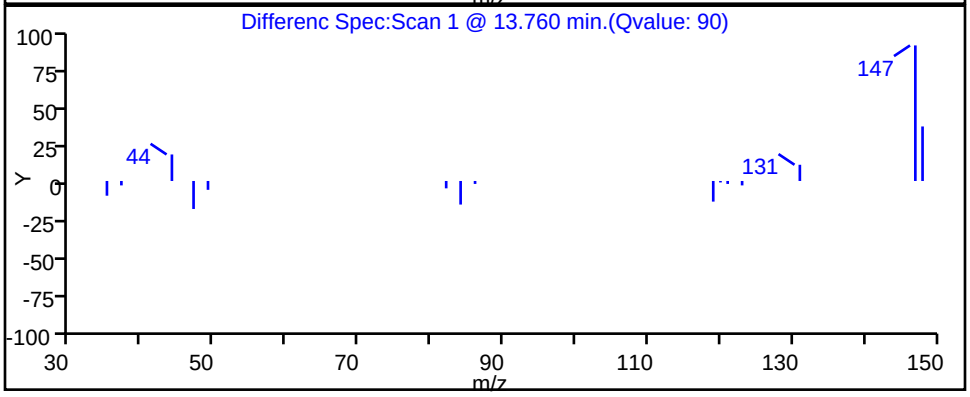










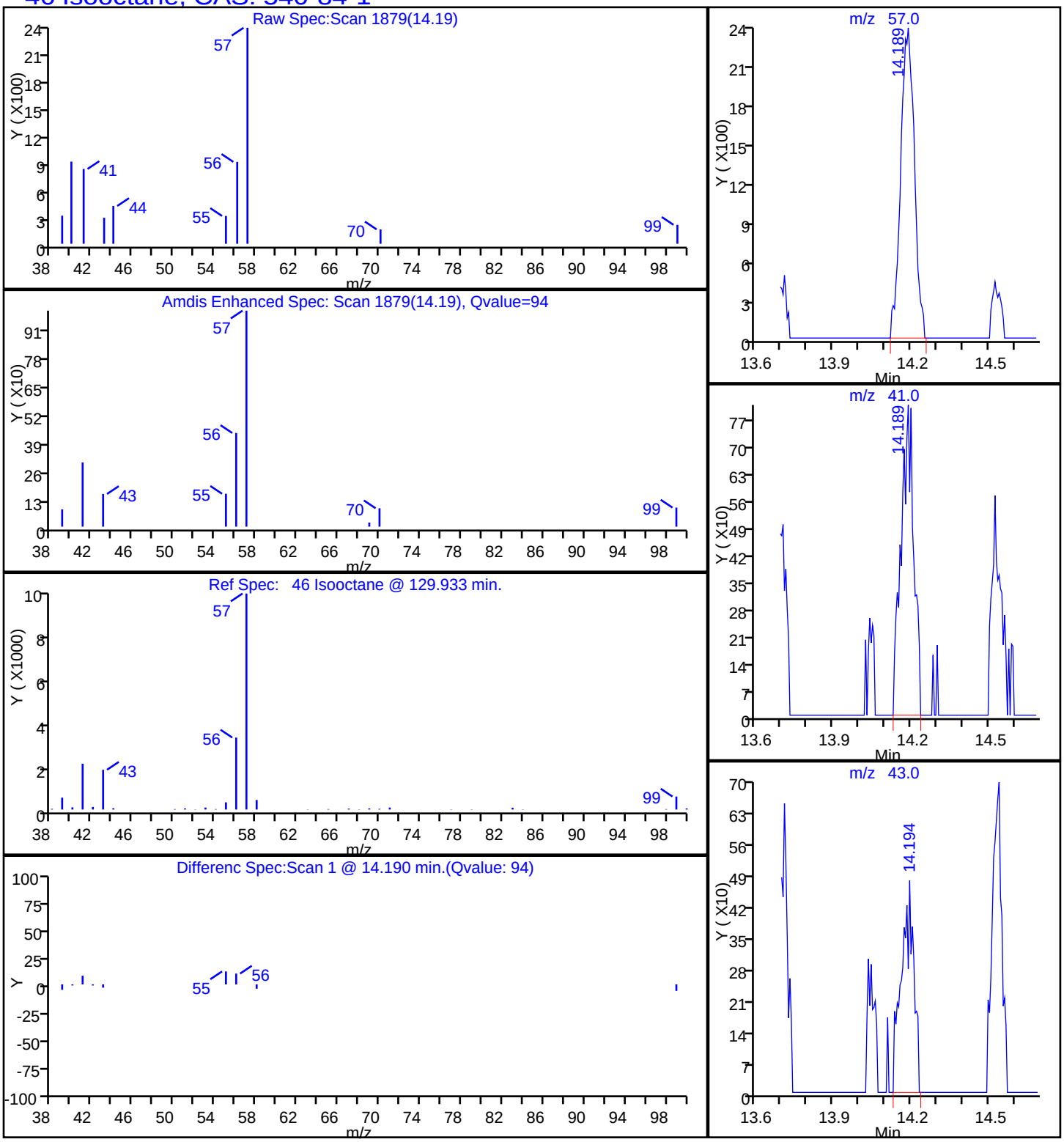


Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1



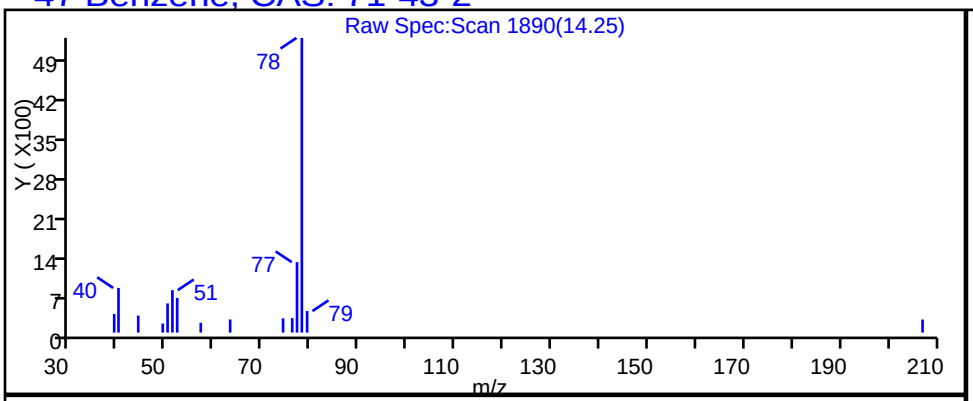
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

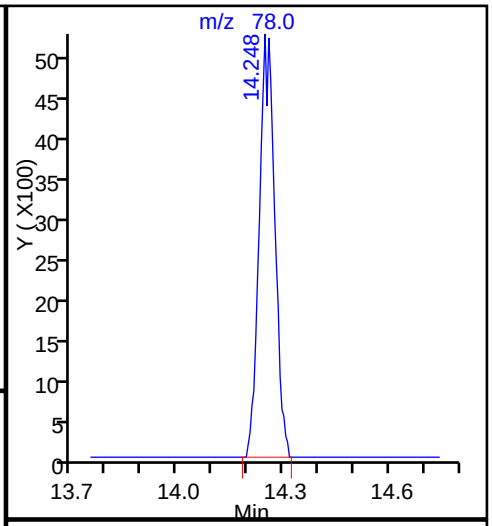
TestAmerica Burlington

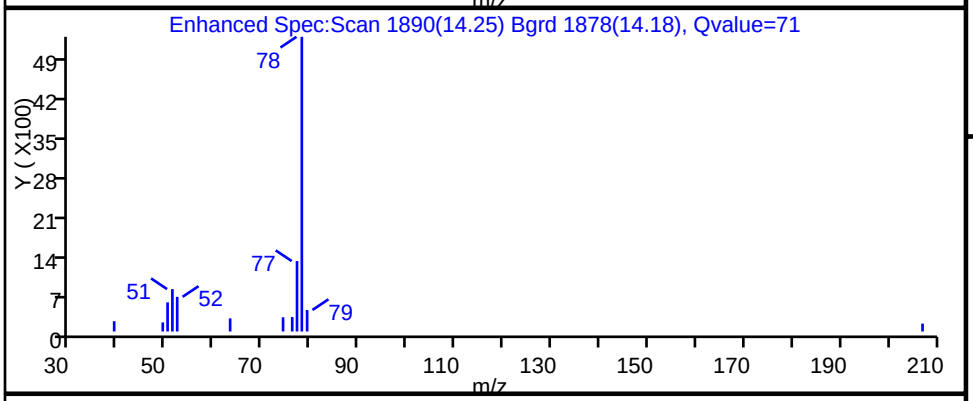
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

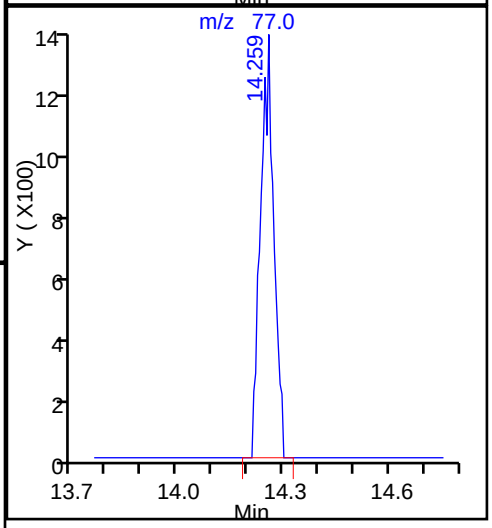
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

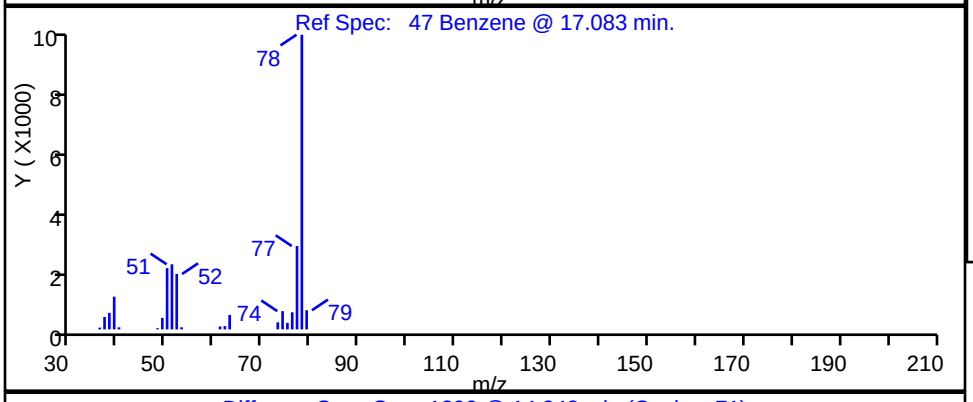
47 Benzene, CAS: 71-43-2

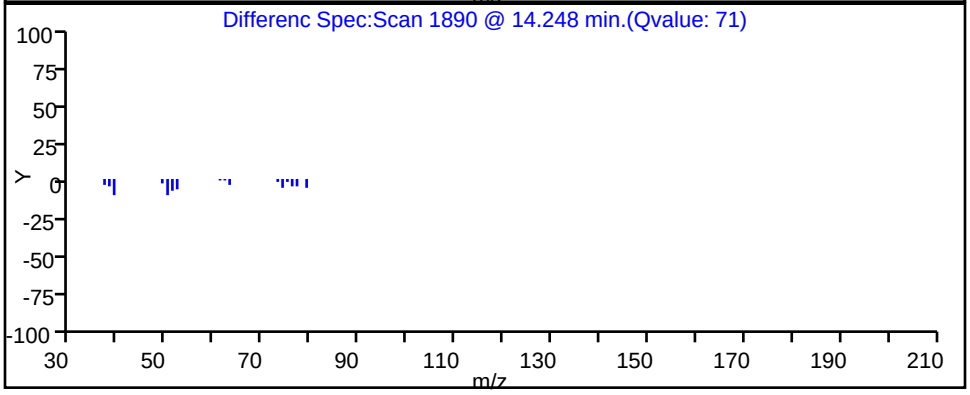










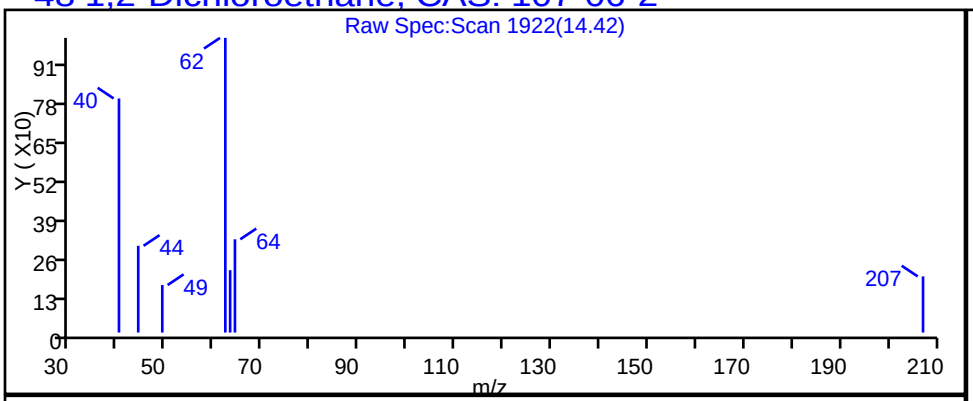


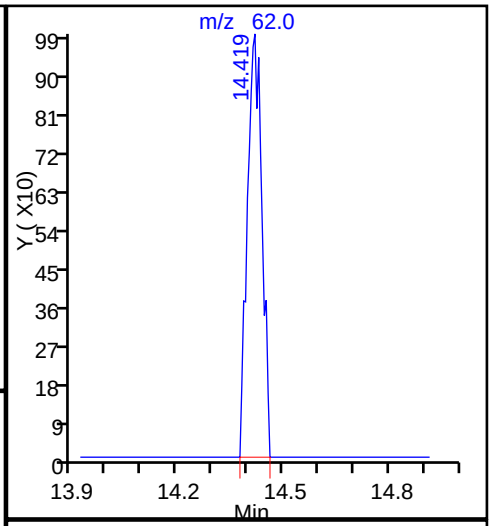
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

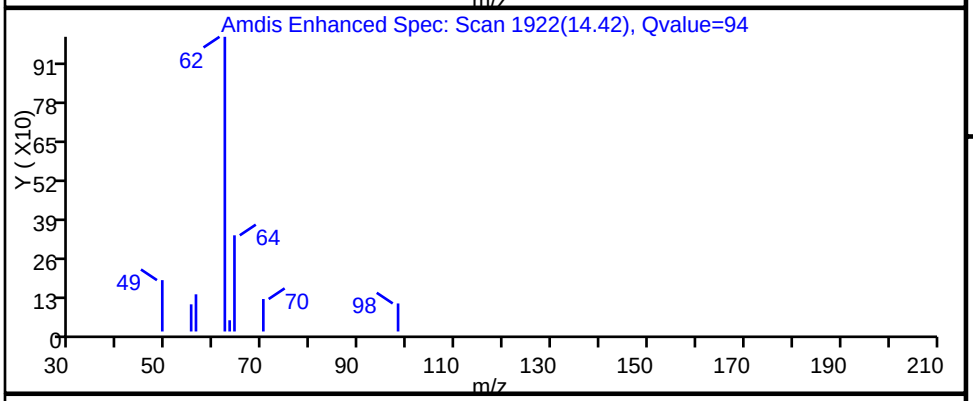
TestAmerica Burlington

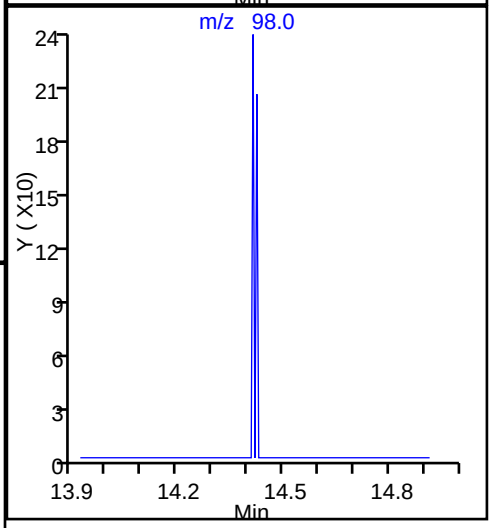
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

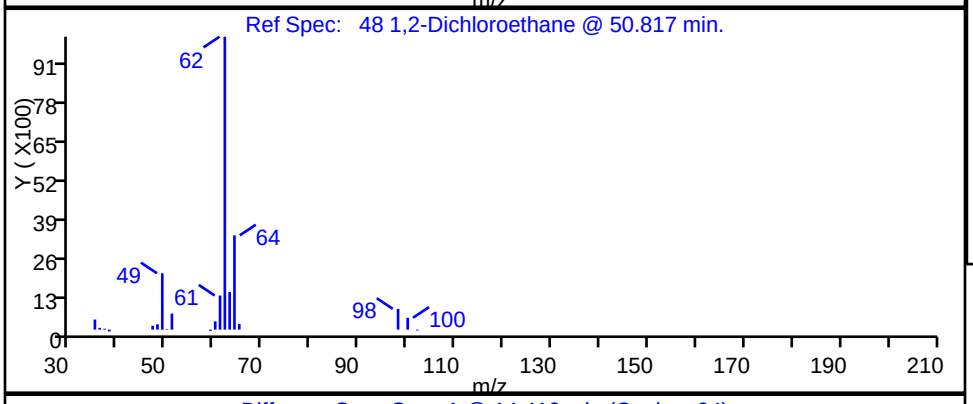
48 1,2-Dichloroethane, CAS: 107-06-2

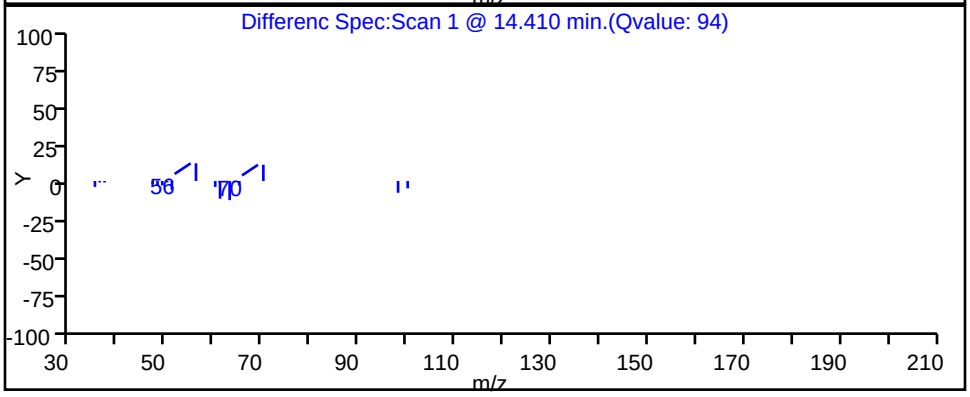












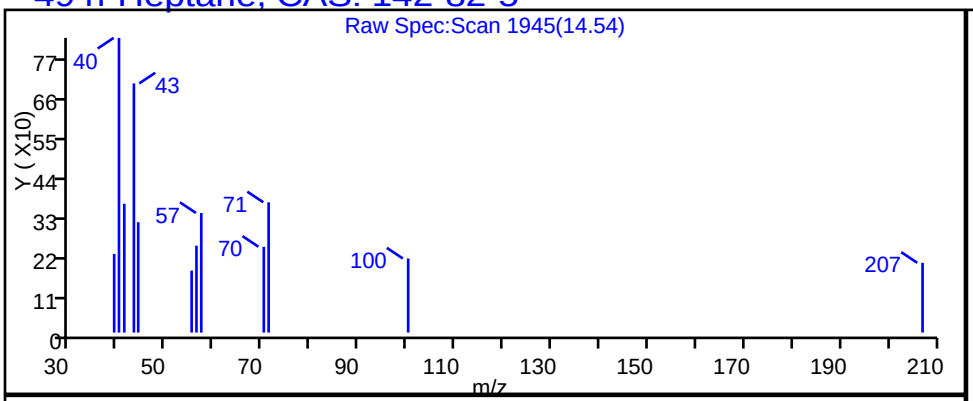
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

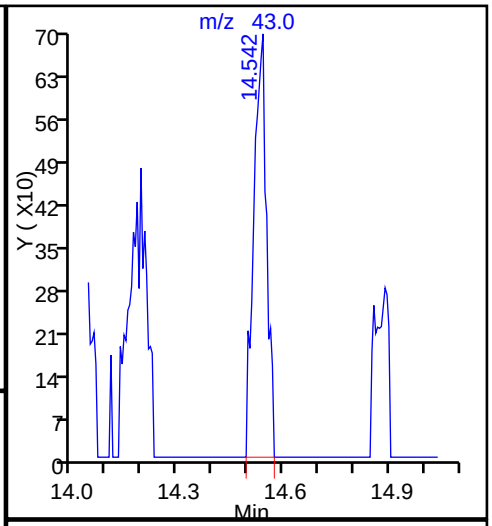
TestAmerica Burlington

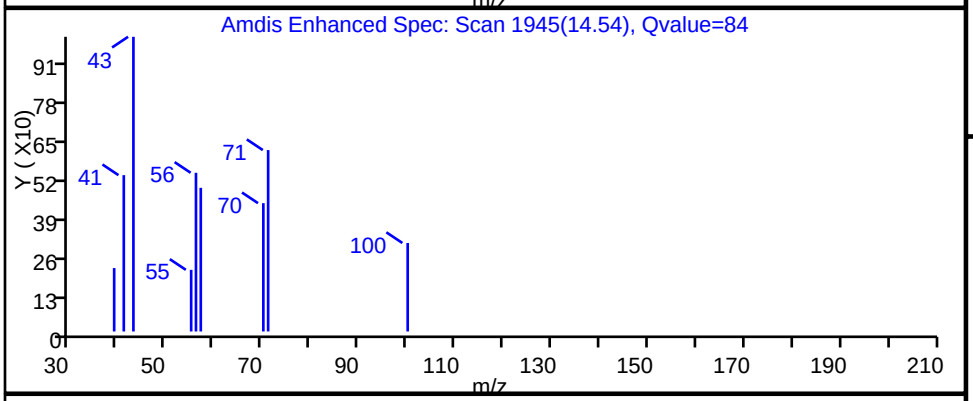
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

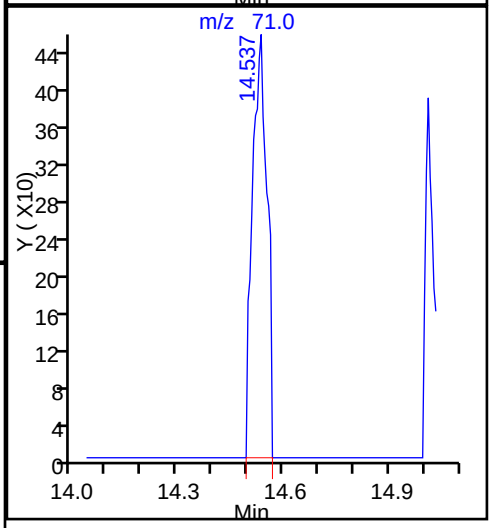
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

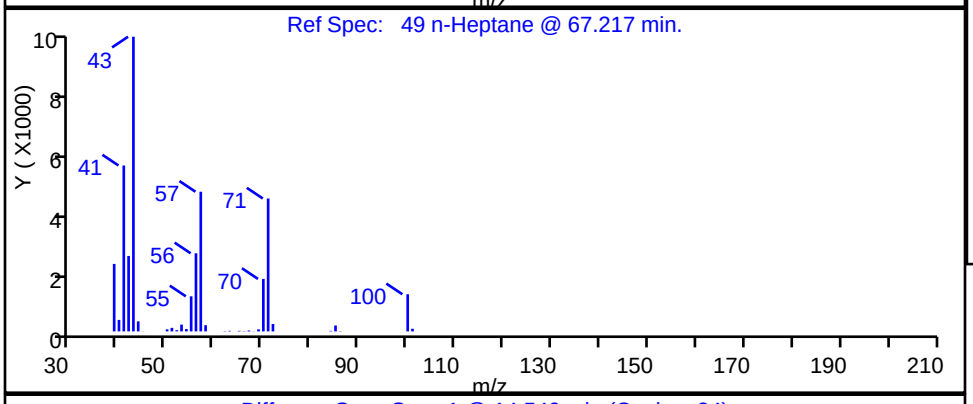
49 n-Heptane, CAS: 142-82-5

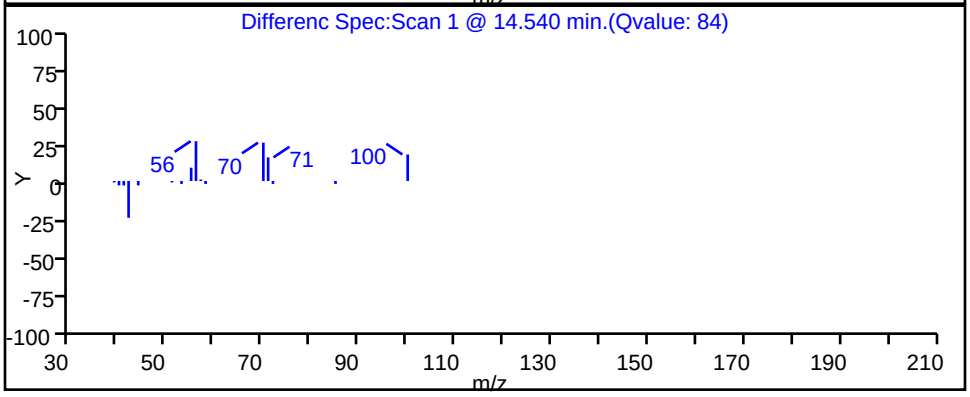










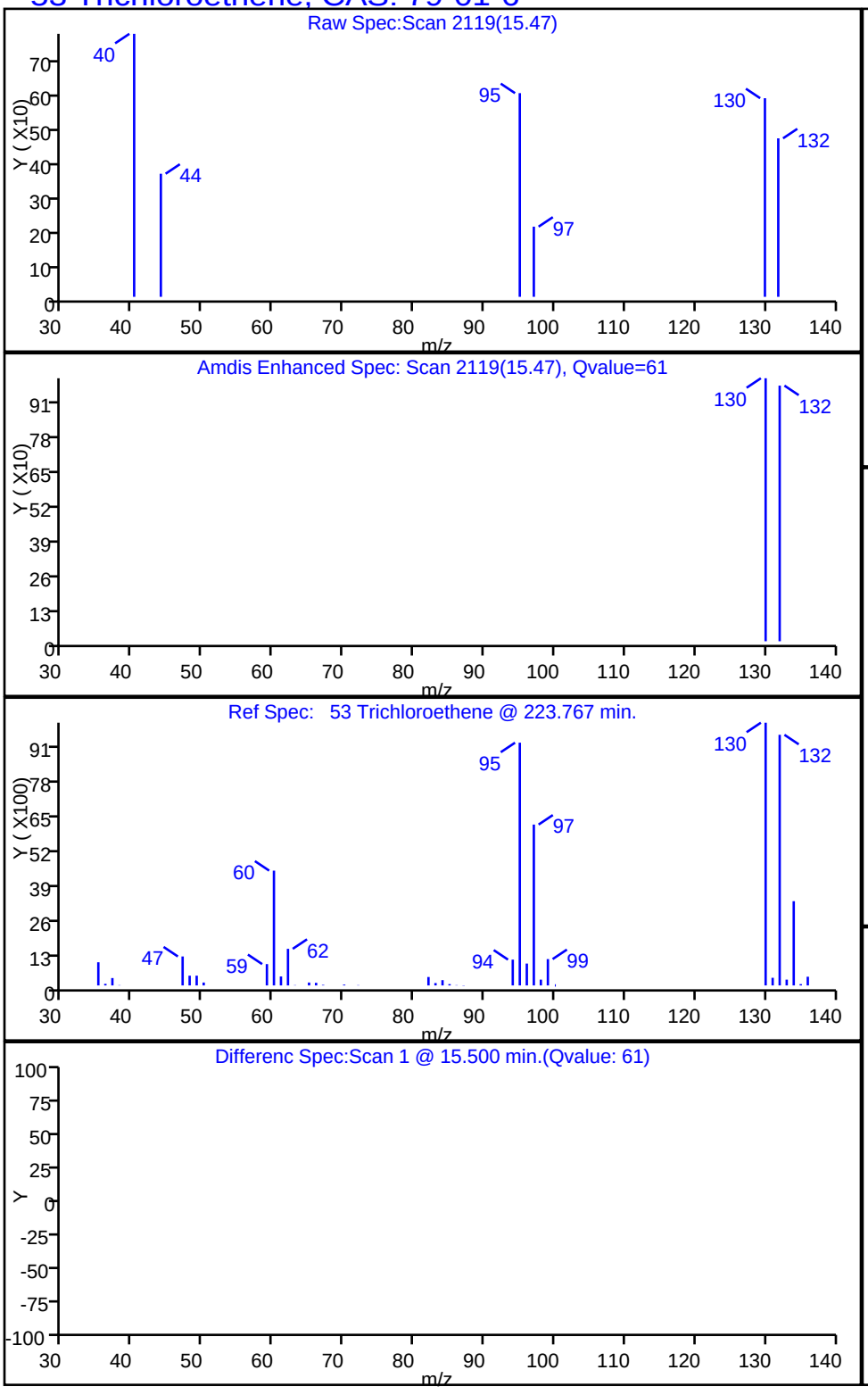


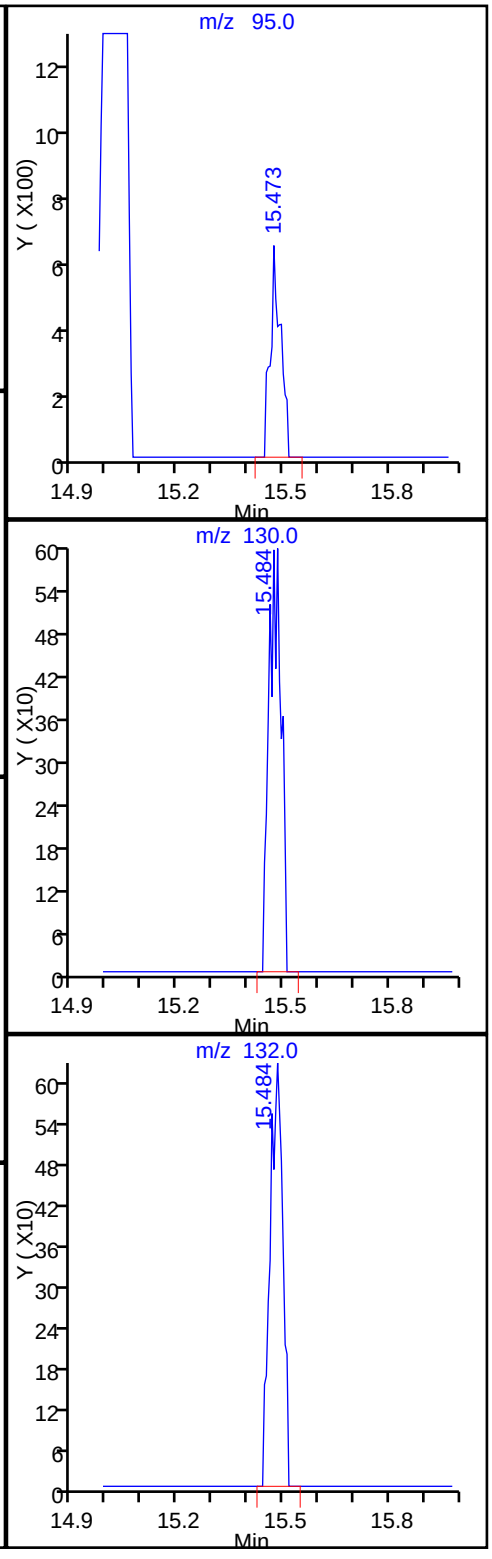
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6





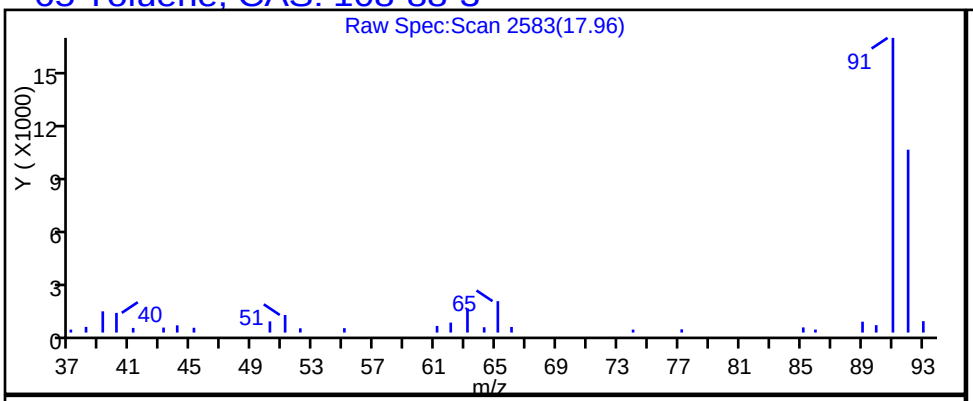
Report Date: 30-Sep-2015 14:17:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

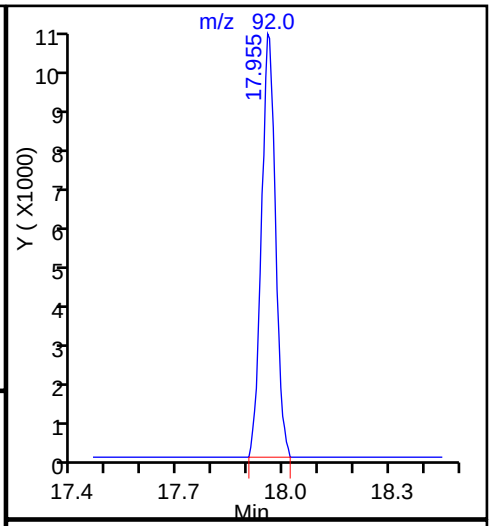
TestAmerica Burlington

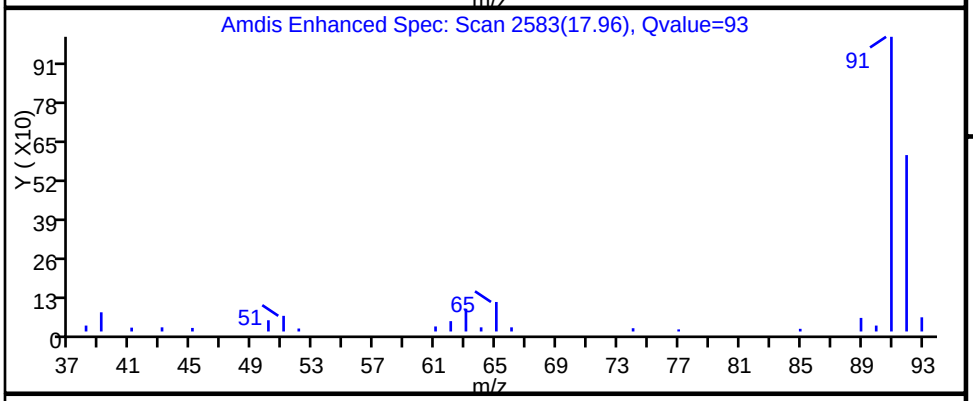
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d

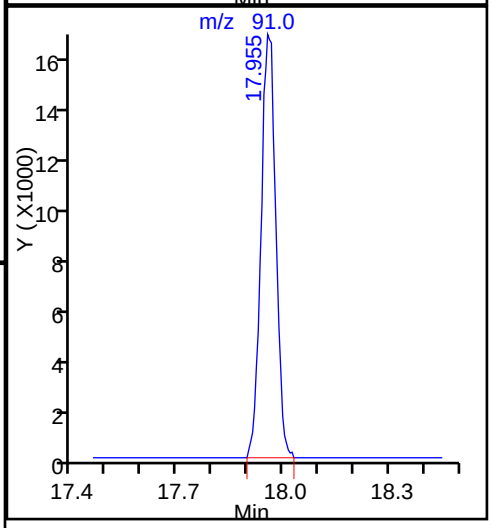
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

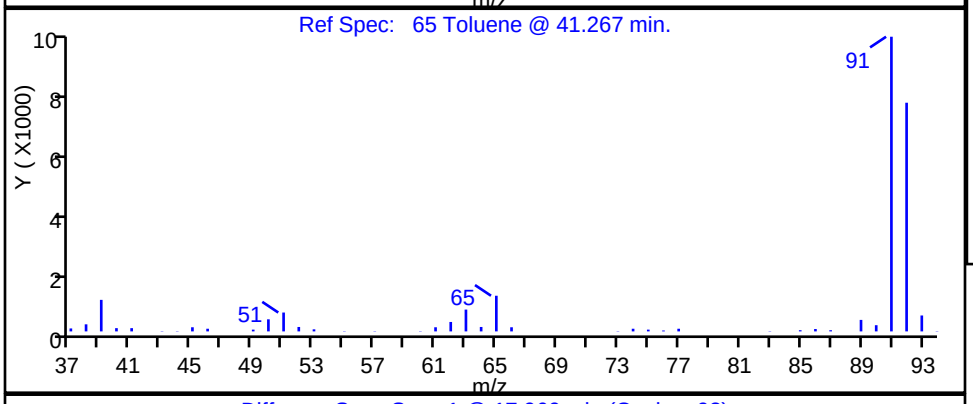
65 Toluene, CAS: 108-88-3

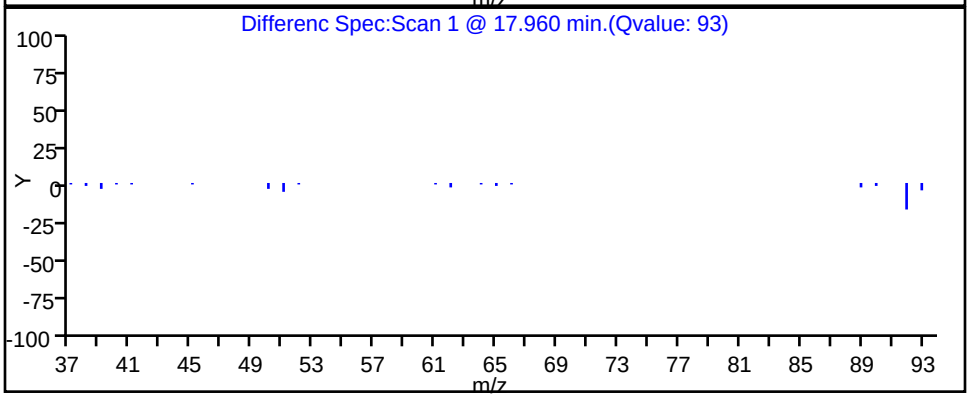










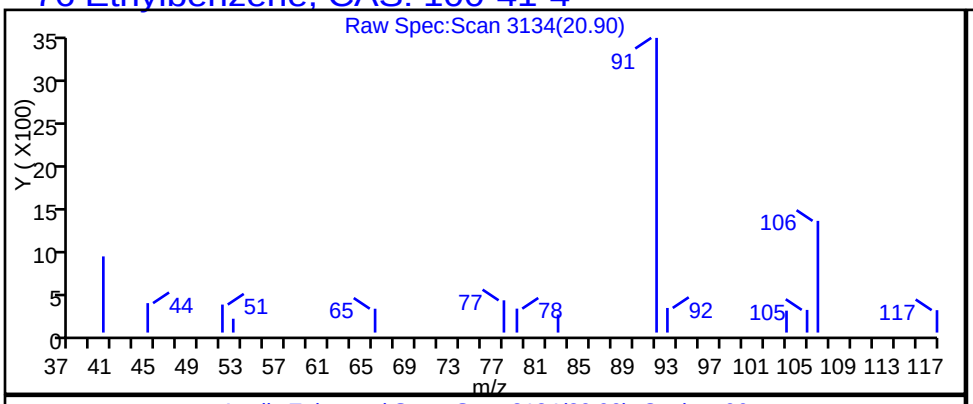


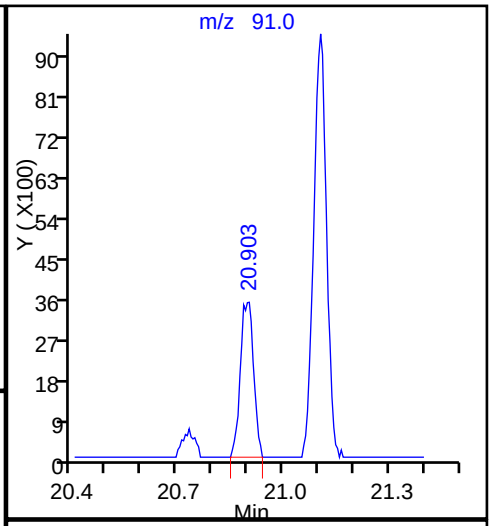
Report Date: 30-Sep-2015 14:17:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

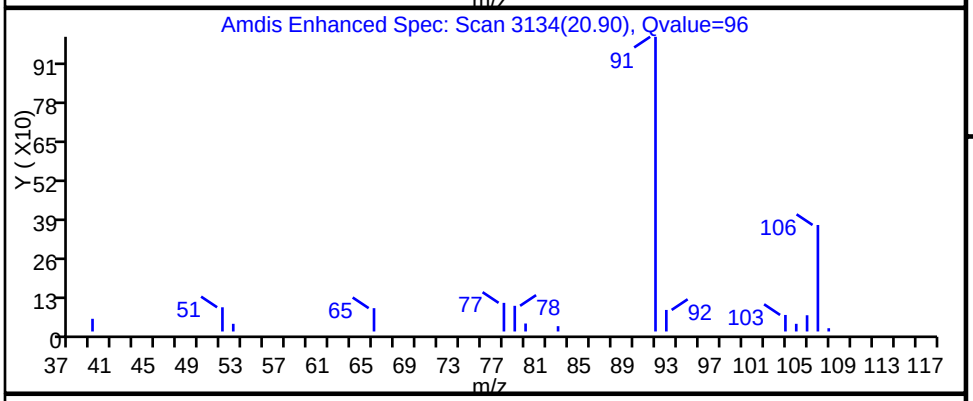
TestAmerica Burlington

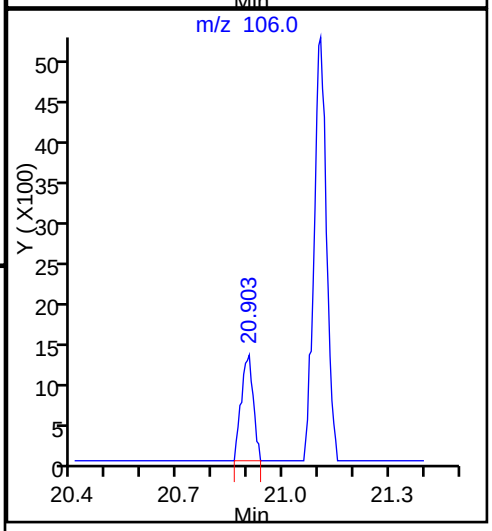
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

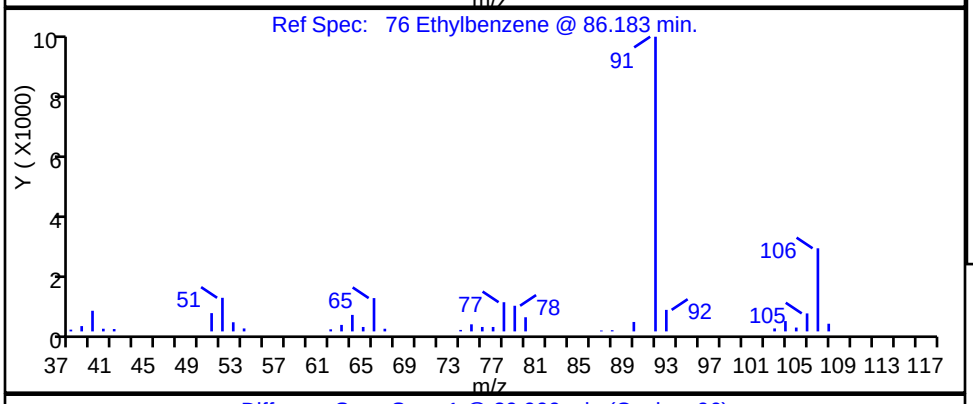
76 Ethylbenzene, CAS: 100-41-4

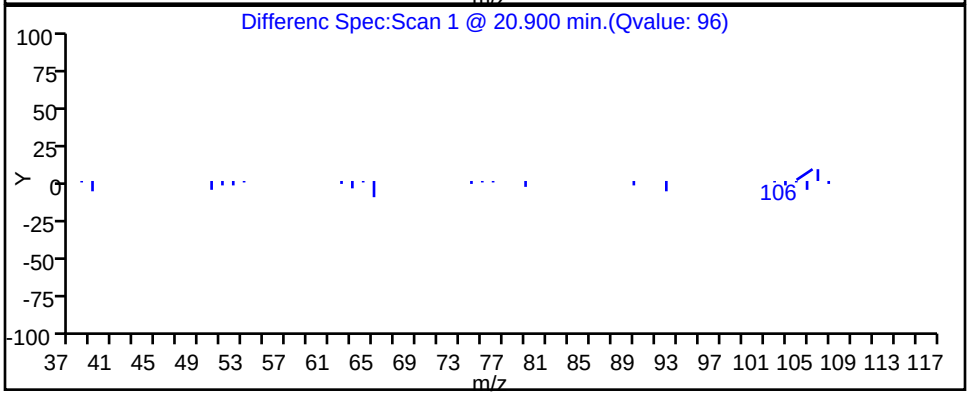










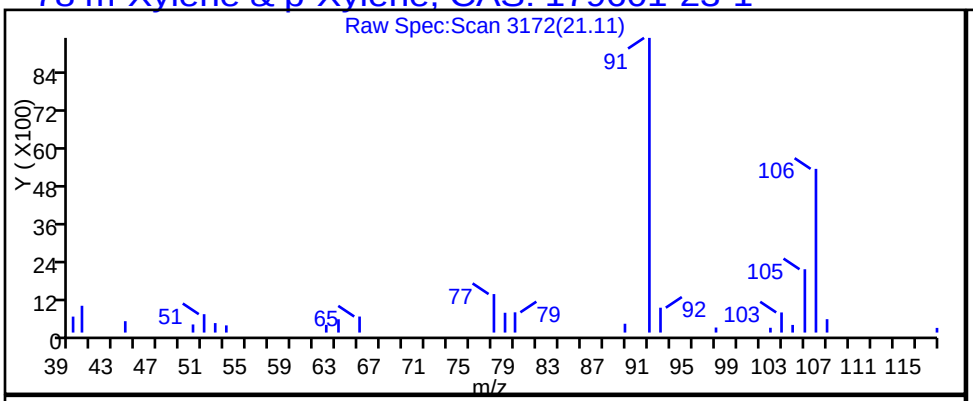


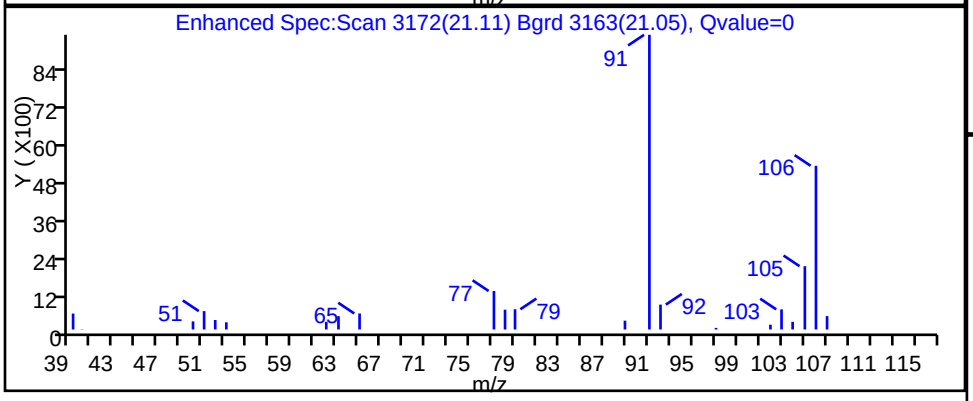
Report Date: 30-Sep-2015 14:17:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

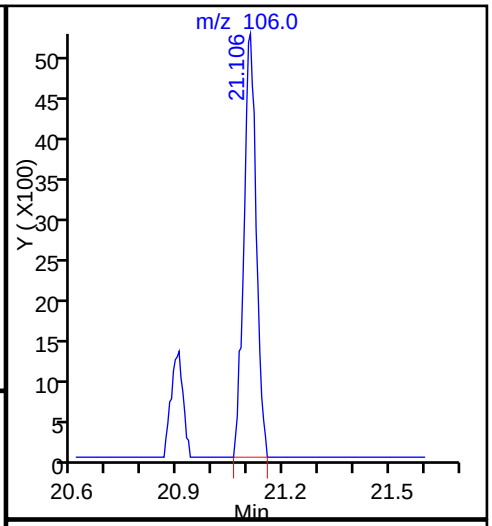
TestAmerica Burlington

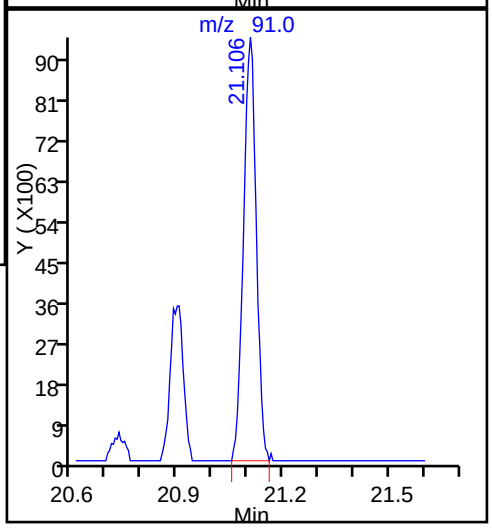
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







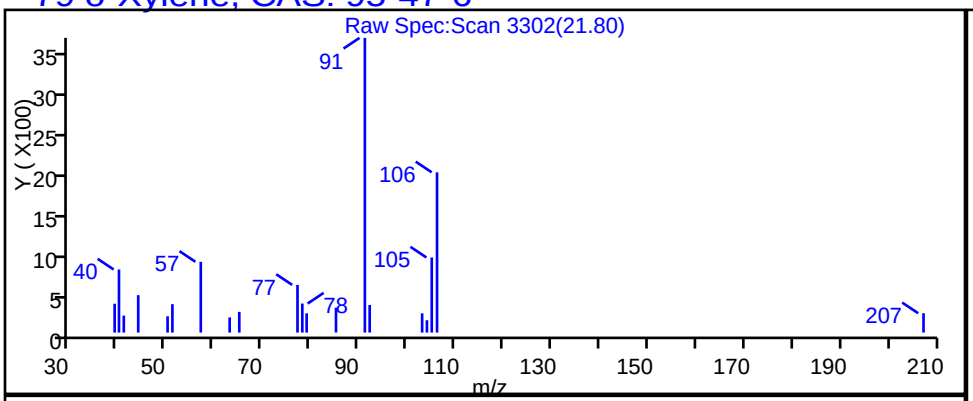


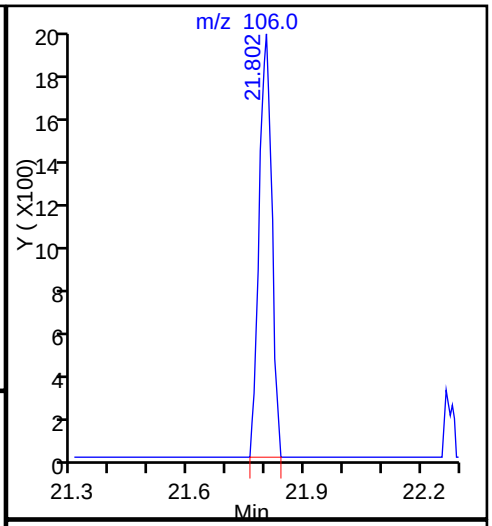
Report Date: 30-Sep-2015 14:17:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

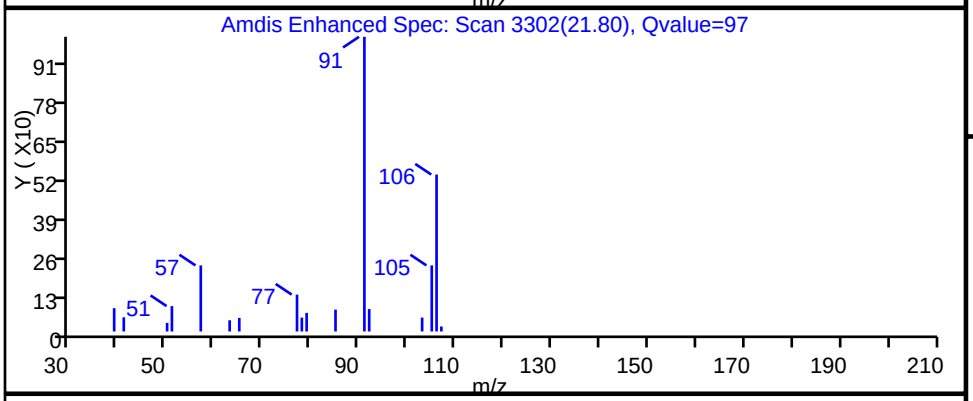
TestAmerica Burlington

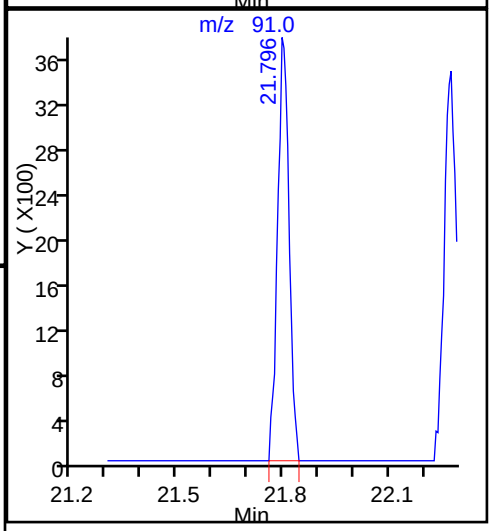
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

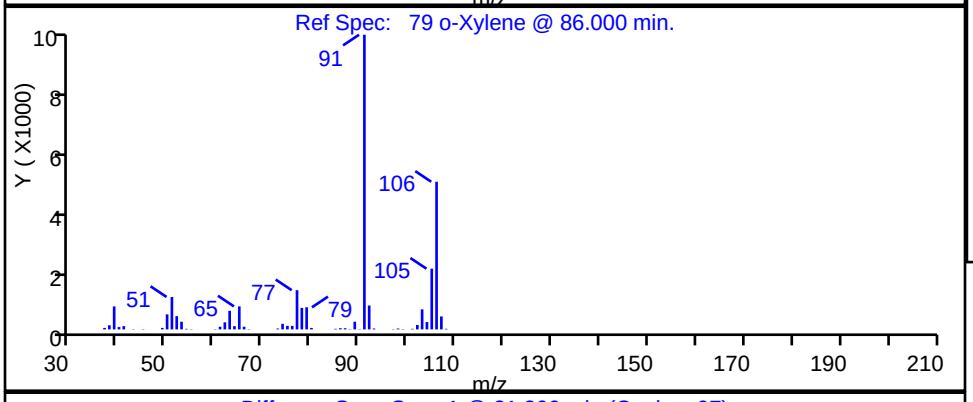
79 o-Xylene, CAS: 95-47-6

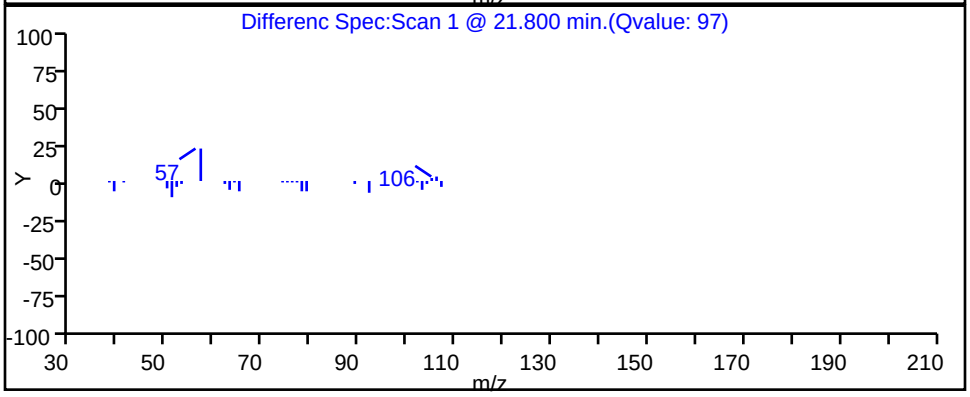










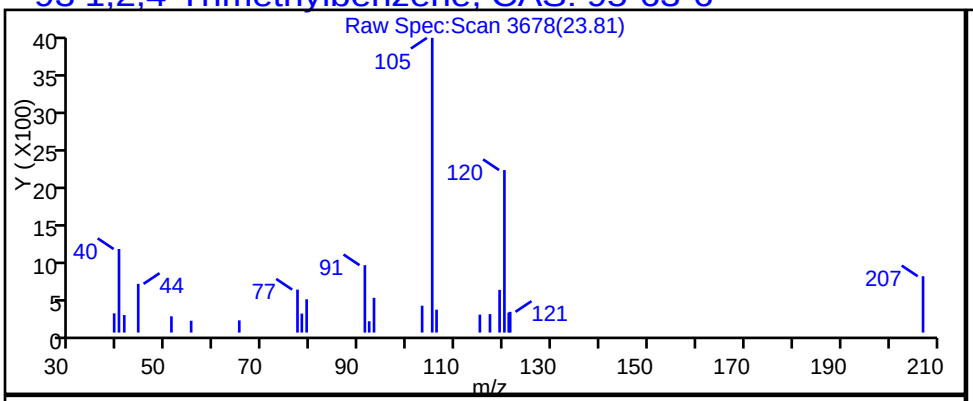


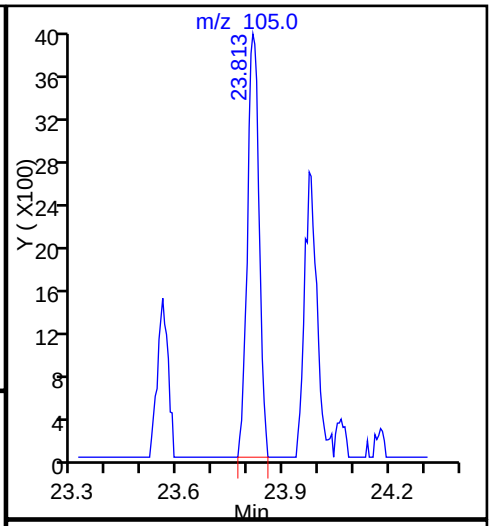
Report Date: 30-Sep-2015 14:17:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

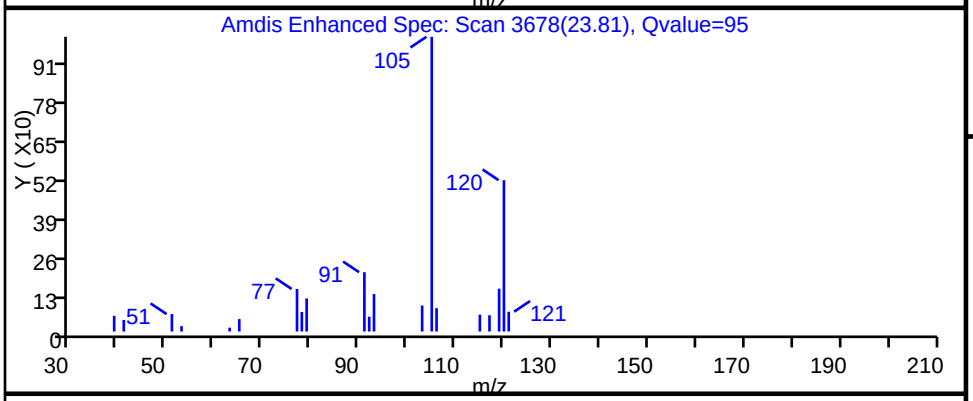
TestAmerica Burlington

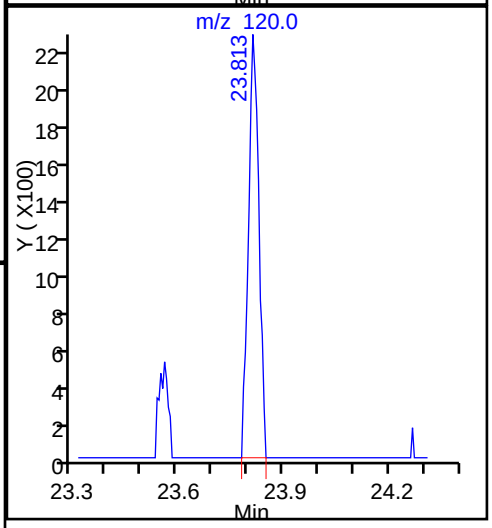
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

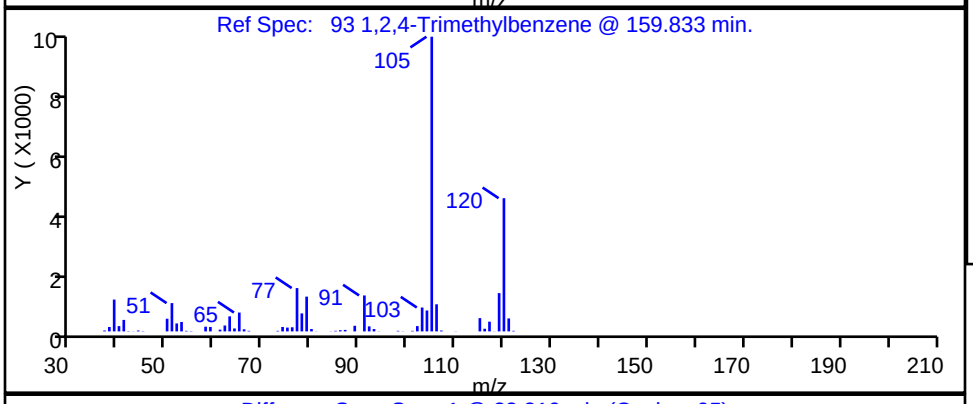
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

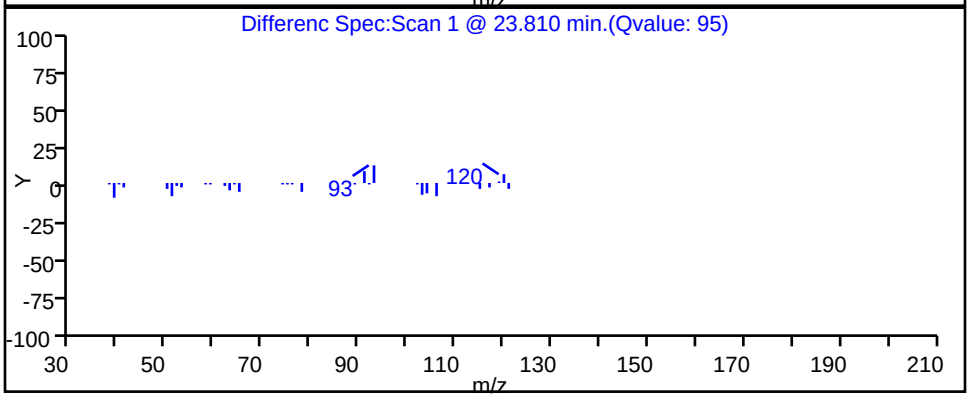












Manual Integration/User Assign Peak Report

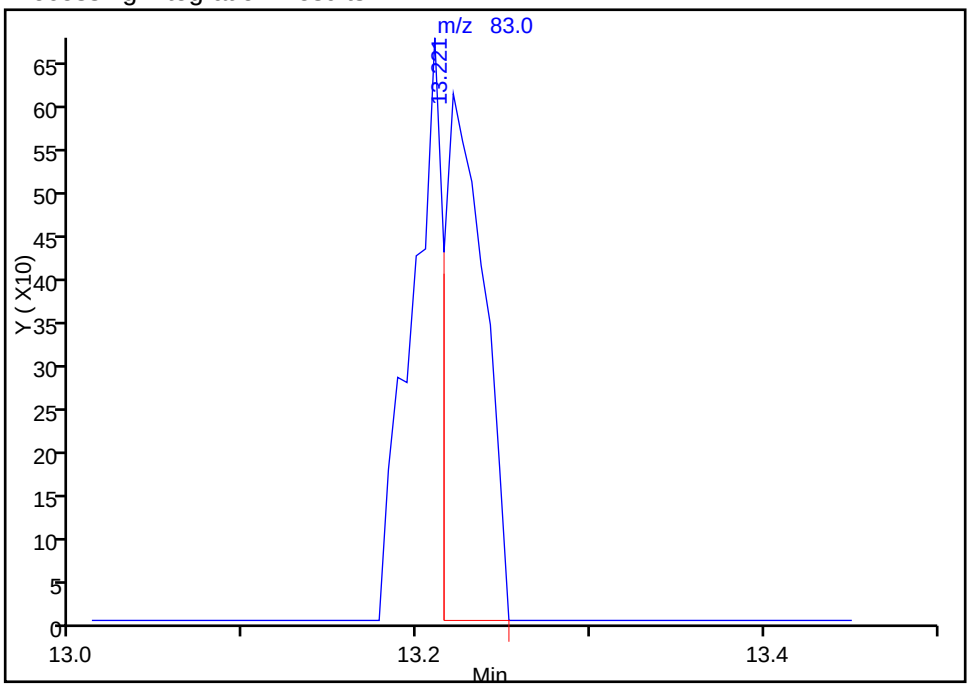
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

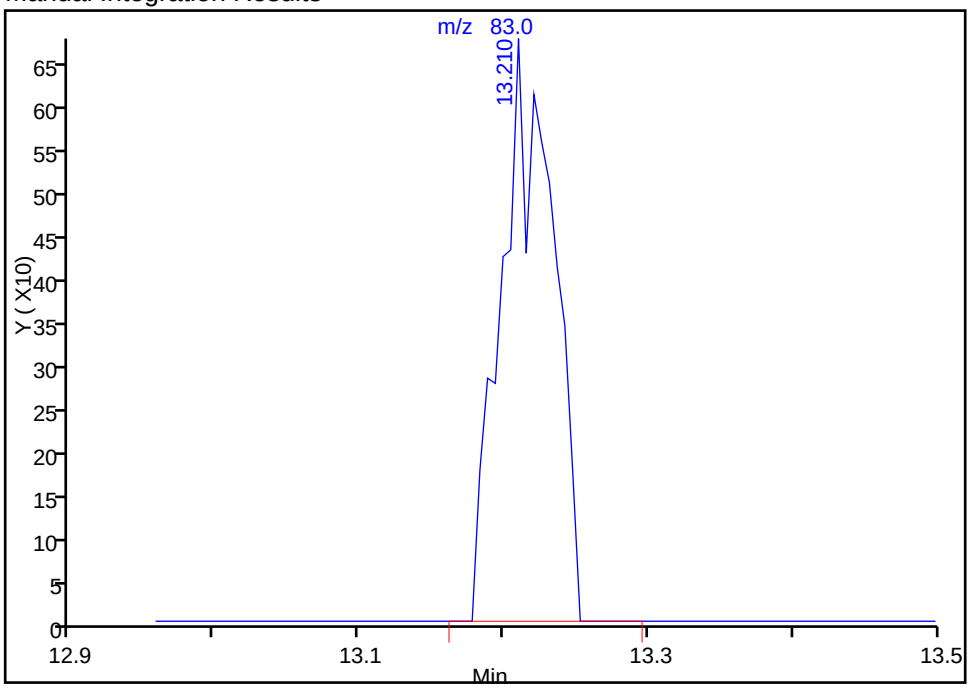
Processing Integration Results

RT: 13.22
Area: 974
Amount: 0.025425
Amount Units: ppb v/v



Manual Integration Results

RT: 13.21
Area: 1701
Amount: 0.044402
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

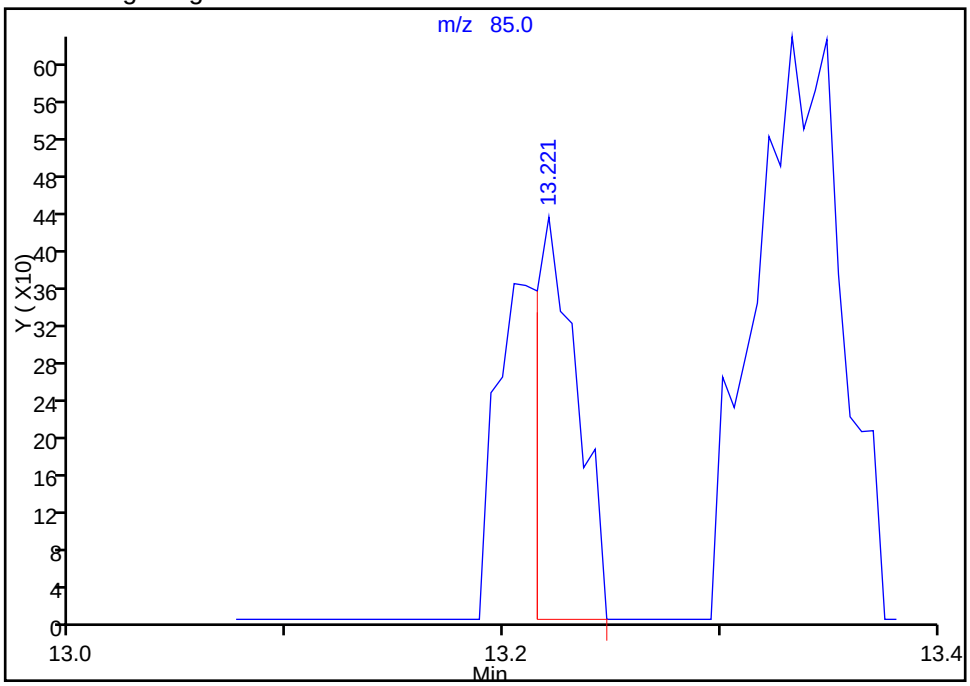
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

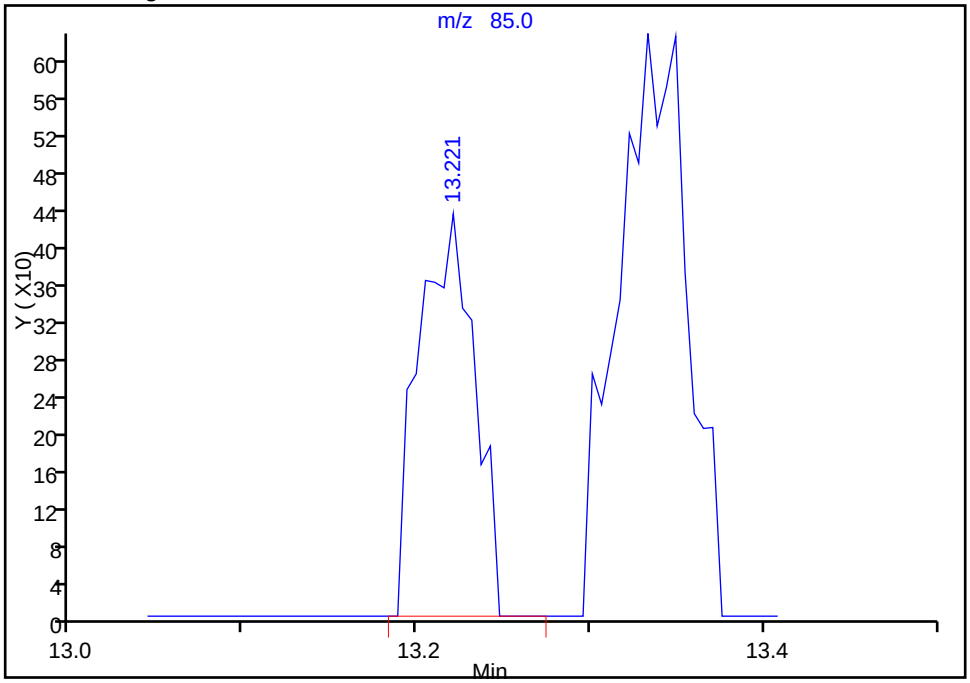
Processing Integration Results

RT: 13.22
Area: 575
Amount: 0.025425
Amount Units: ppb v/v



Manual Integration Results

RT: 13.22
Area: 970
Amount: 0.044402
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

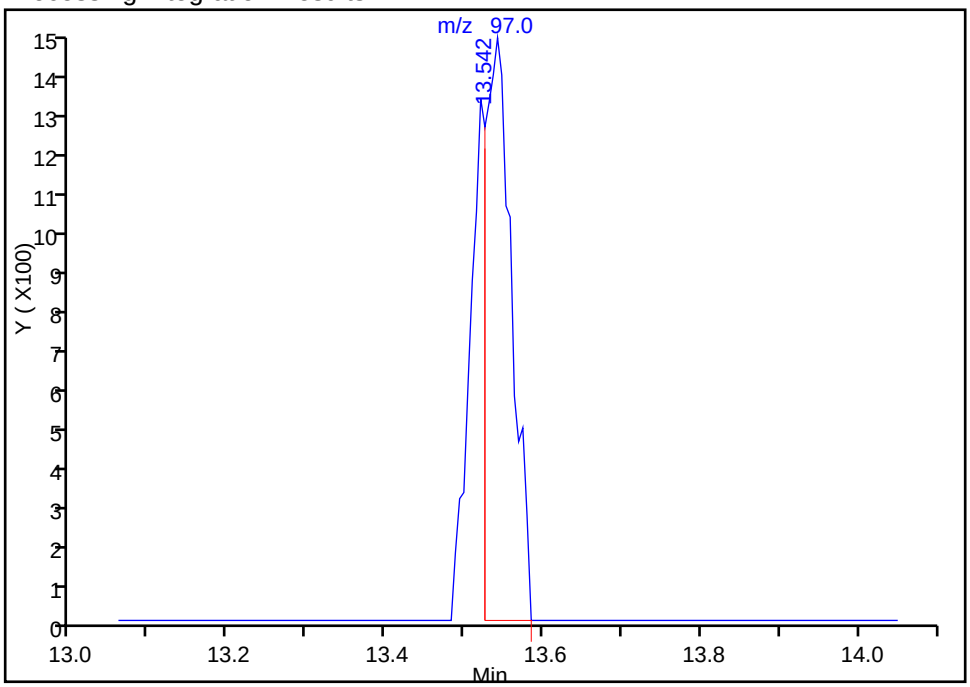
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

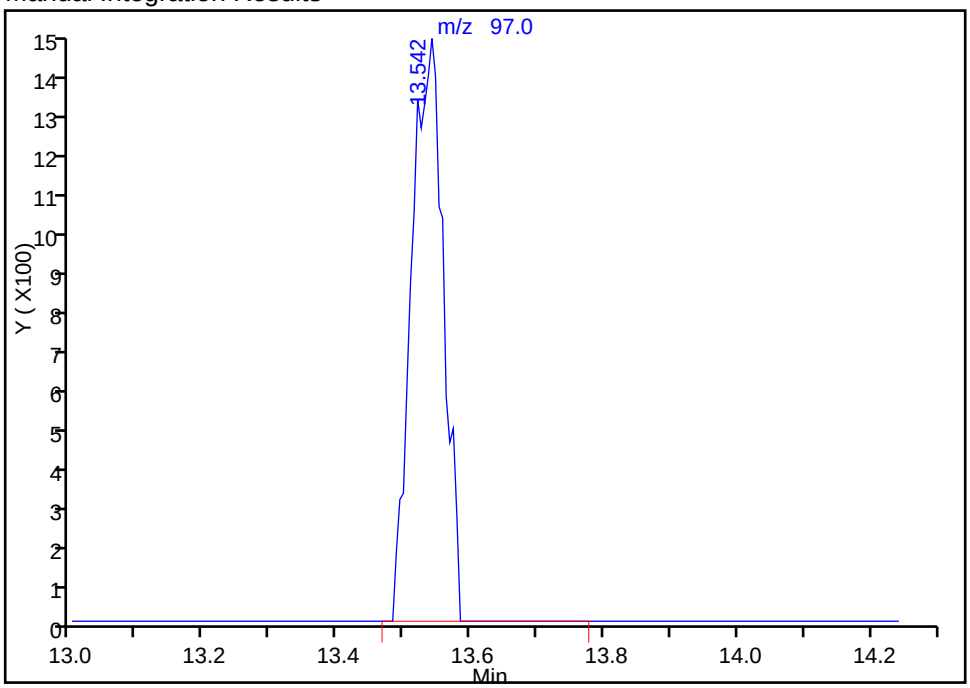
Processing Integration Results

RT: 13.54
Area: 3258
Amount: 0.070182
Amount Units: ppb v/v



Manual Integration Results

RT: 13.54
Area: 4672
Amount: 0.100641
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

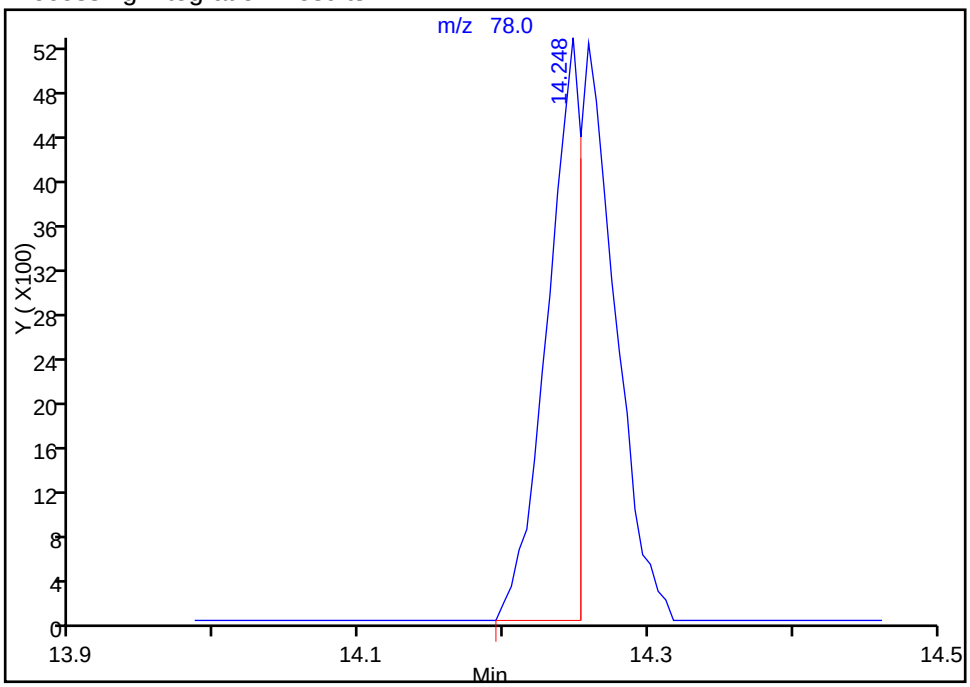
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

47 Benzene, CAS: 71-43-2

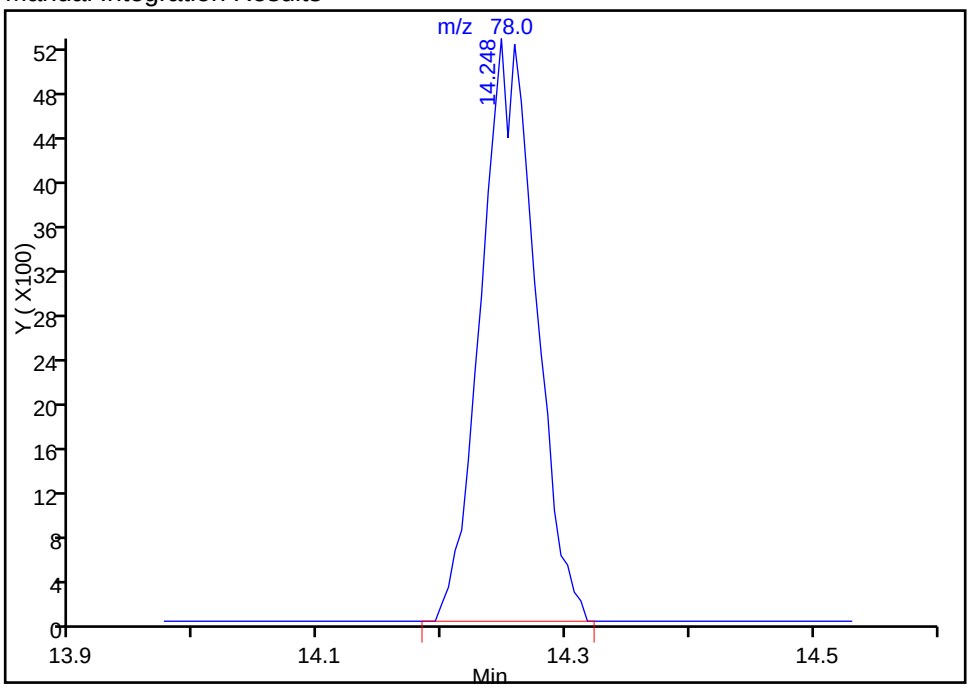
Processing Integration Results

RT: 14.25
Area: 8531
Amount: 0.168506
Amount Units: ppb v/v



Manual Integration Results

RT: 14.25
Area: 16129
Amount: 0.318583
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

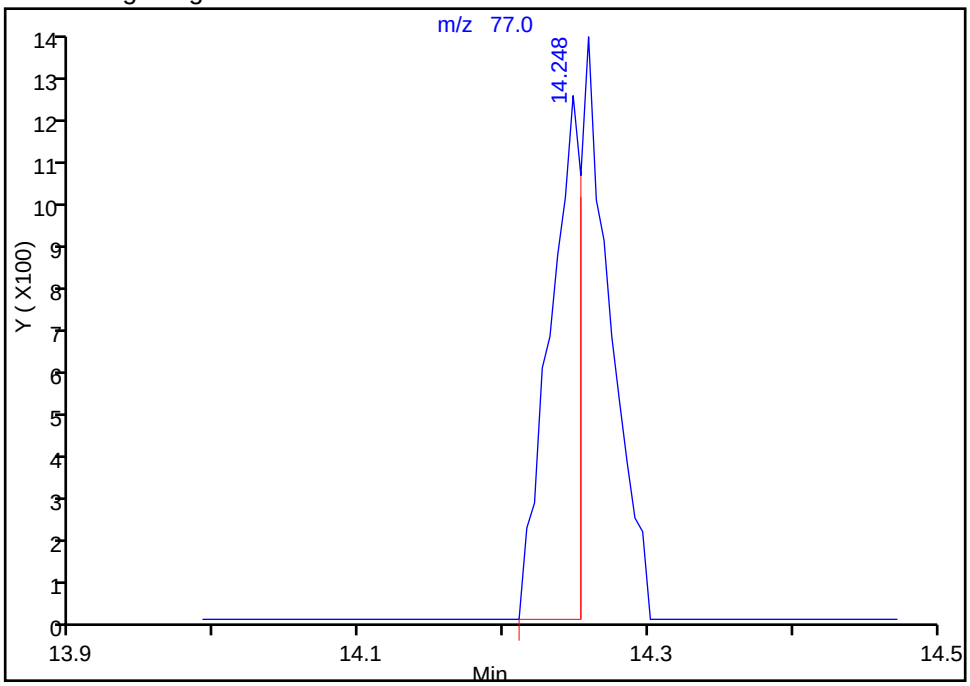
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

47 Benzene, CAS: 71-43-2

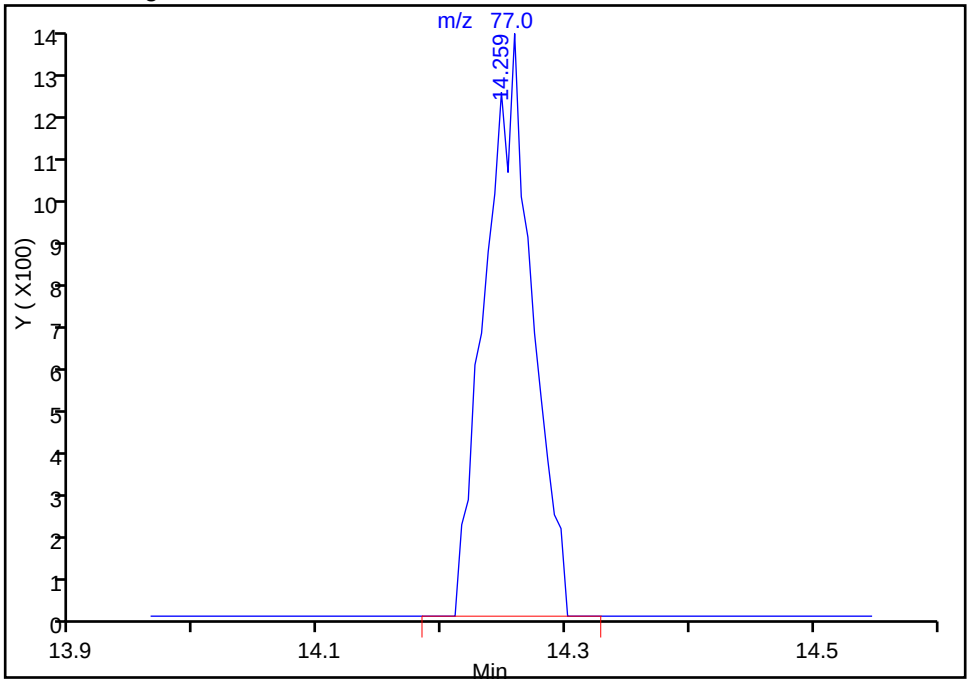
Processing Integration Results

RT: 14.25
Area: 1920
Amount: 0.168506
Amount Units: ppb v/v



Manual Integration Results

RT: 14.26
Area: 3633
Amount: 0.318583
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

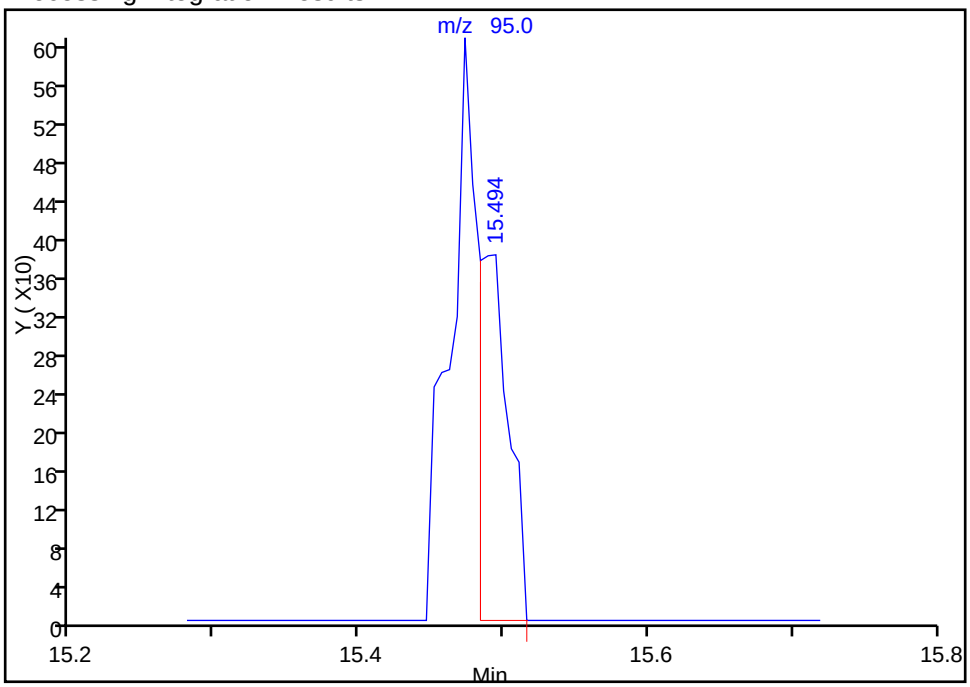
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

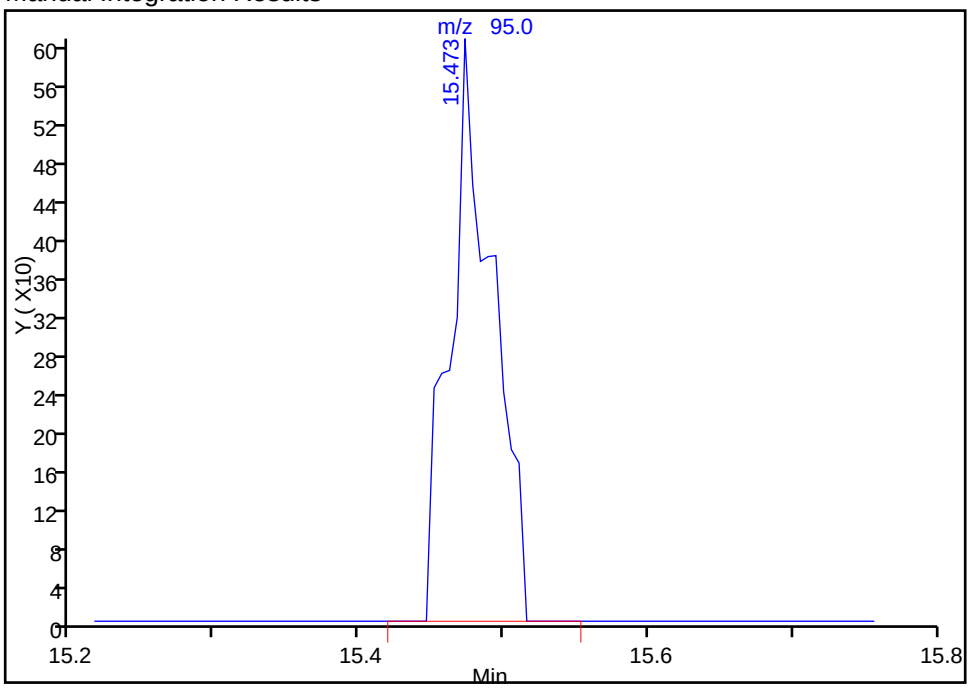
Processing Integration Results

RT: 15.49
Area: 549
Amount: 0.021131
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 1233
Amount: 0.047459
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

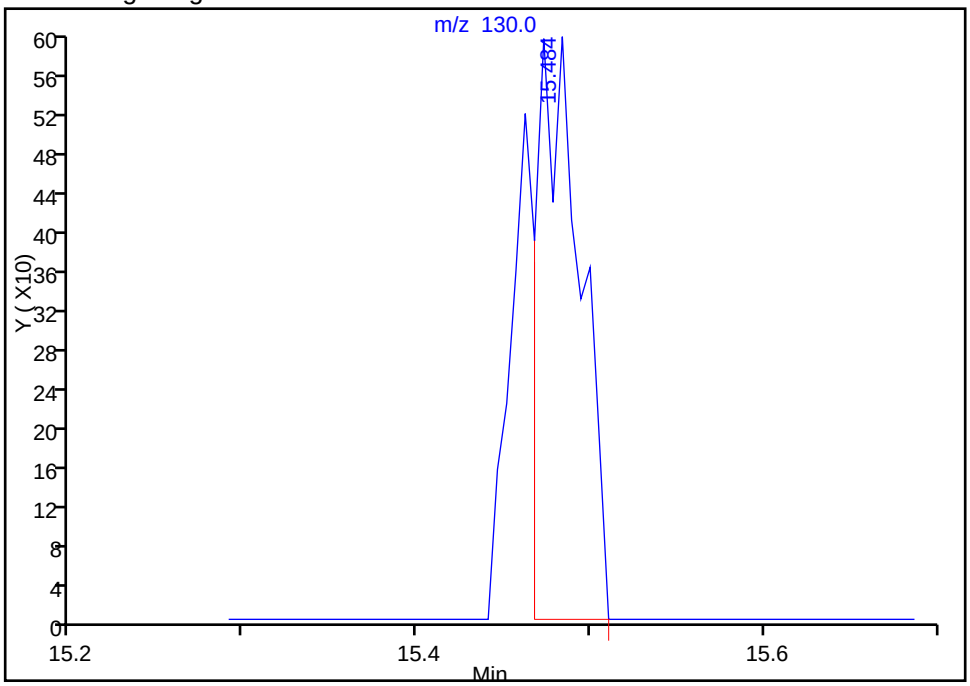
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

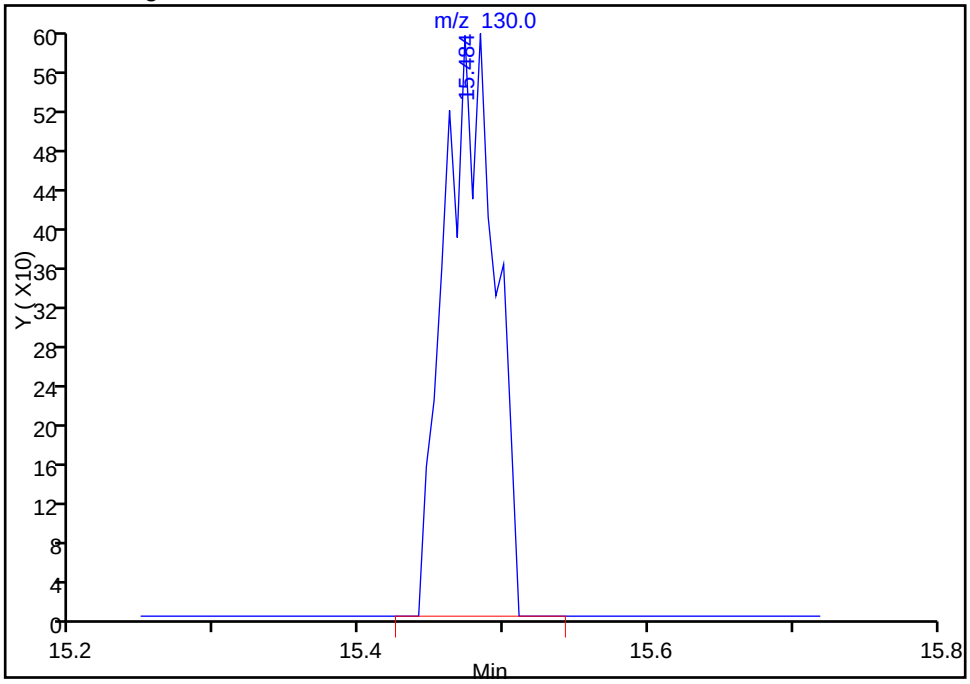
Processing Integration Results

RT: 15.48
Area: 1045
Amount: 0.021131
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 1442
Amount: 0.047459
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

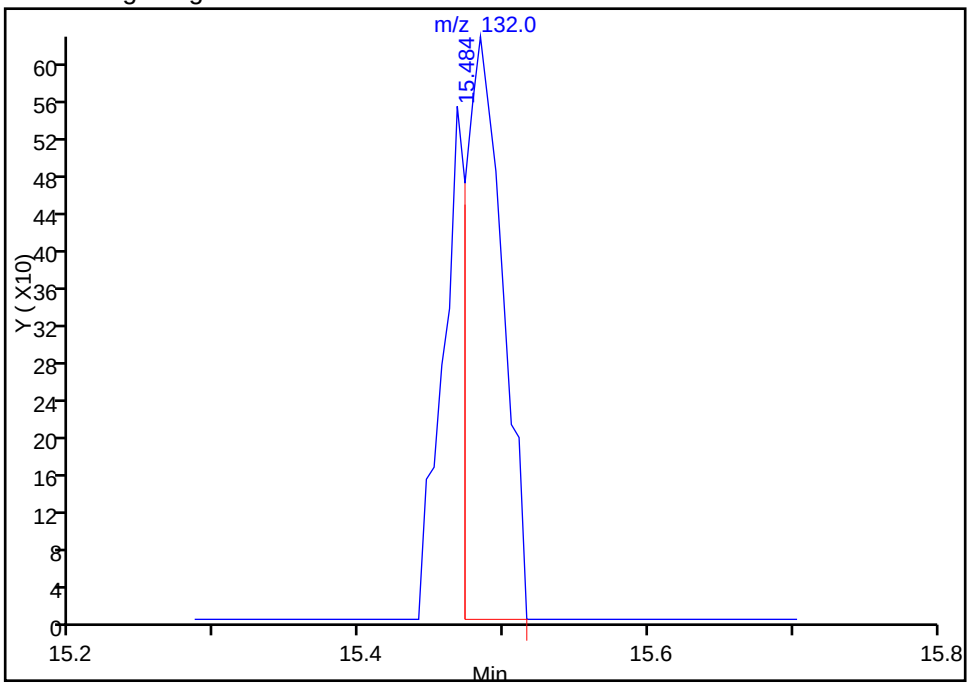
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

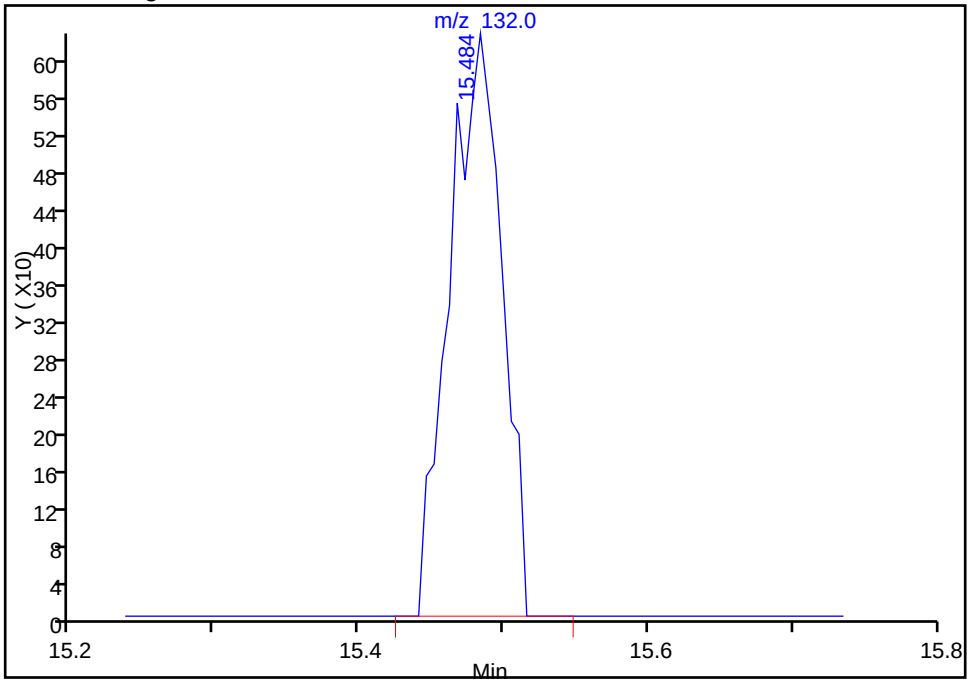
Processing Integration Results

RT: 15.48
Area: 1107
Amount: 0.021131
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 1581
Amount: 0.047459
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

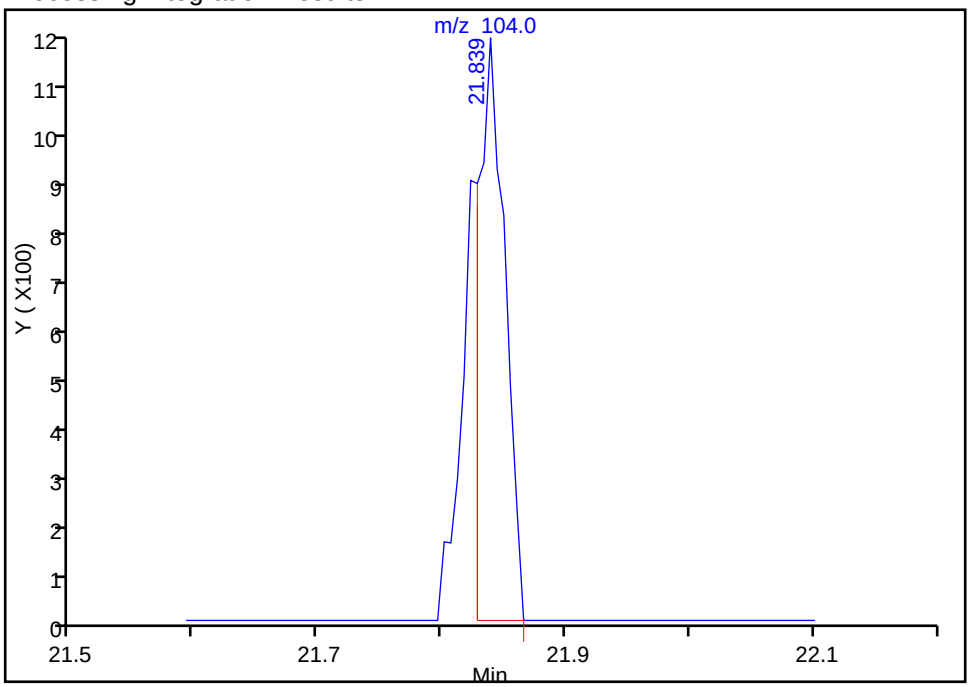
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5

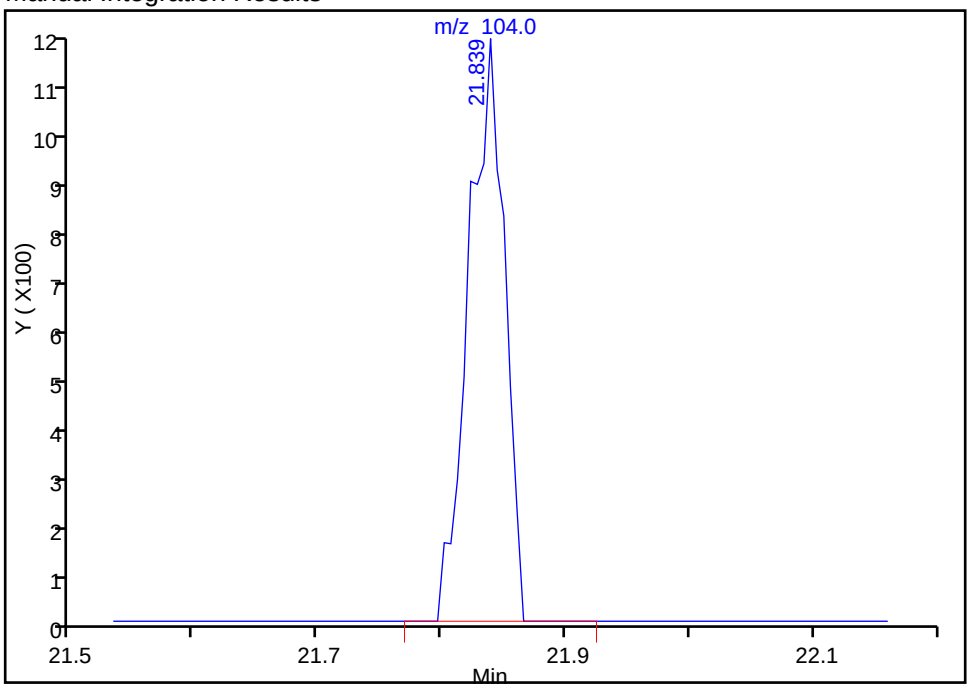
Processing Integration Results

RT: 21.84
Area: 1687
Amount: 0.027950
Amount Units: ppb v/v



Manual Integration Results

RT: 21.84
Area: 2305
Amount: 0.038189
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

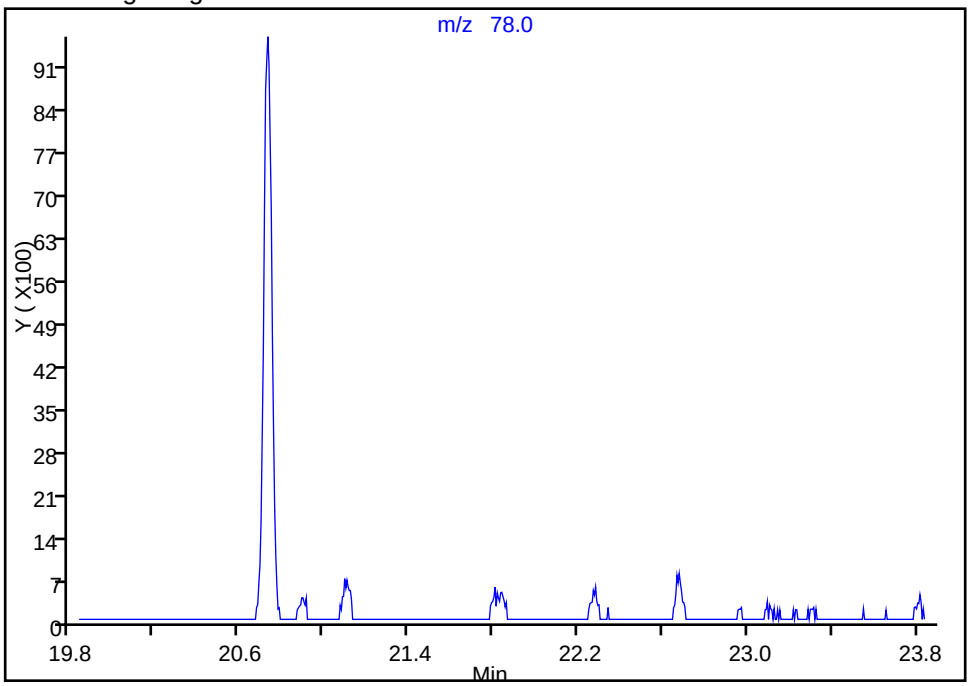
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5

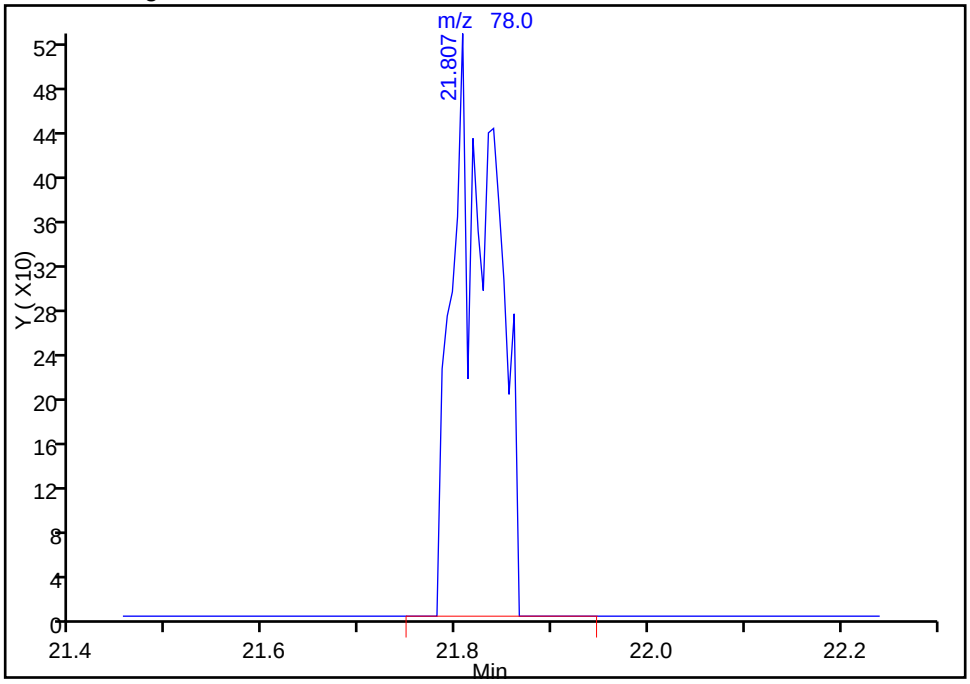
Processing Integration Results

RT: 21.84
Area: 0
Amount: 0.027950
Amount Units: ppb v/v



Manual Integration Results

RT: 21.81
Area: 1607
Amount: 0.038189
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

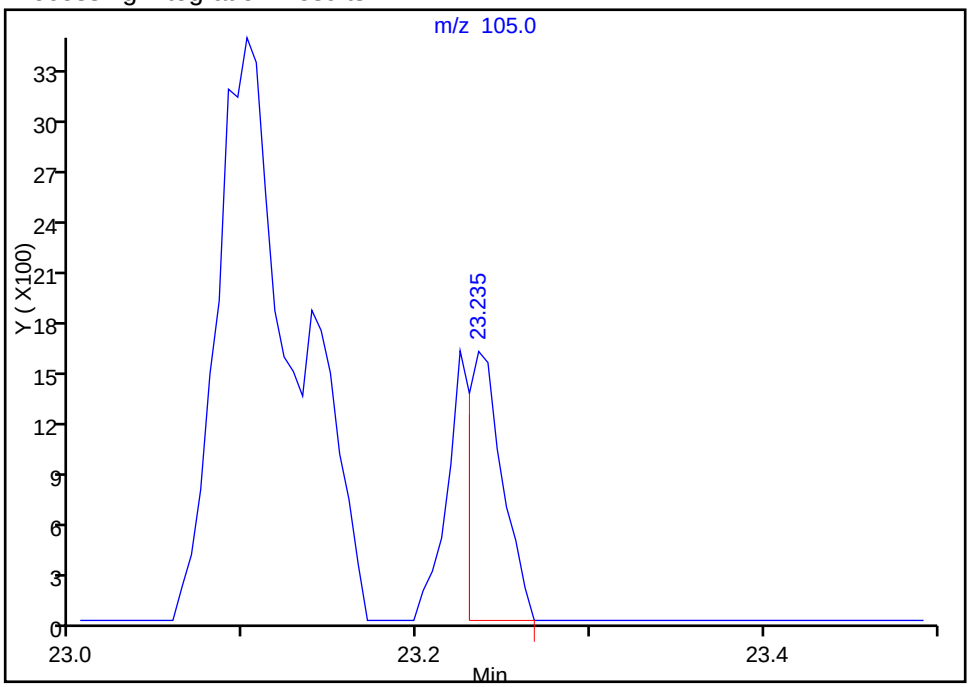
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

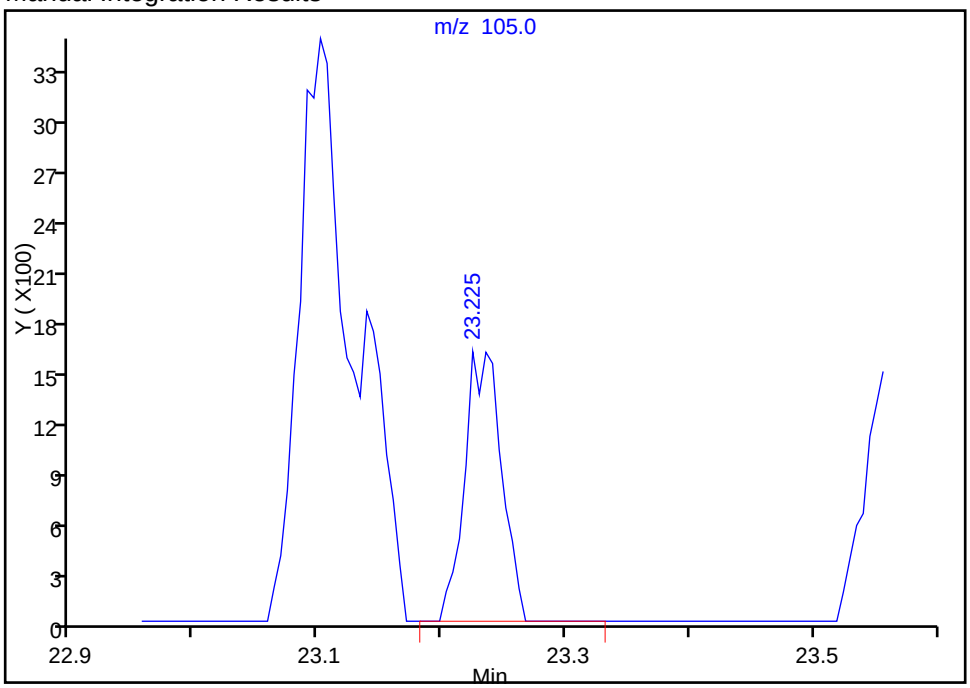
Processing Integration Results

RT: 23.24
Area: 2219
Amount: 0.019683
Amount Units: ppb v/v



Manual Integration Results

RT: 23.22
Area: 3351
Amount: 0.029725
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

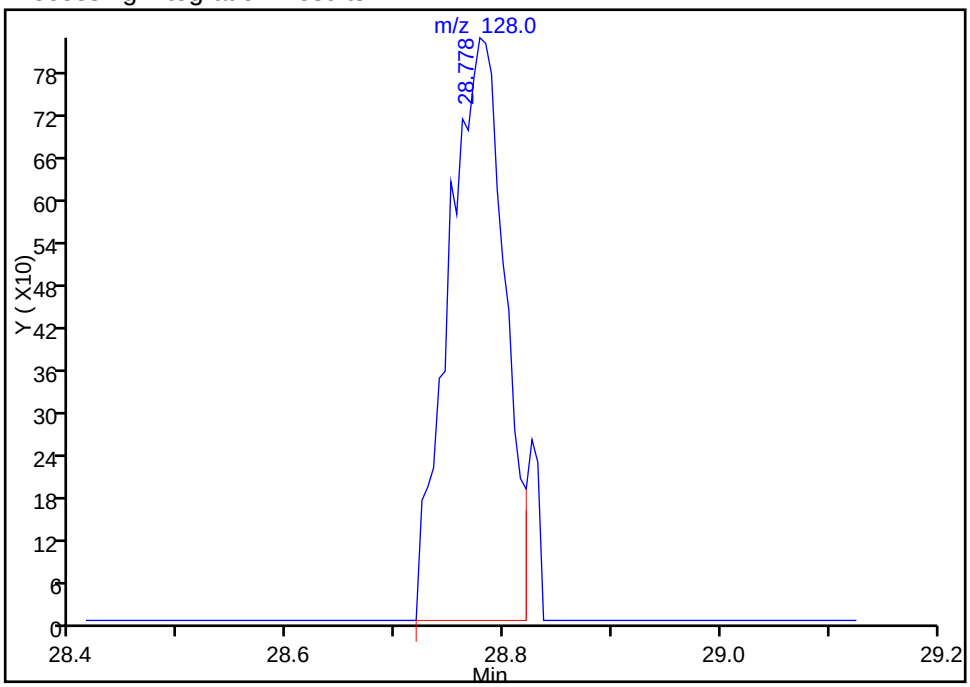
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_010.d				
Injection Date:	29-Sep-2015 17:55:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-6	Lab Sample ID:	200-29972-6		
Client ID:	FR-IA03-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

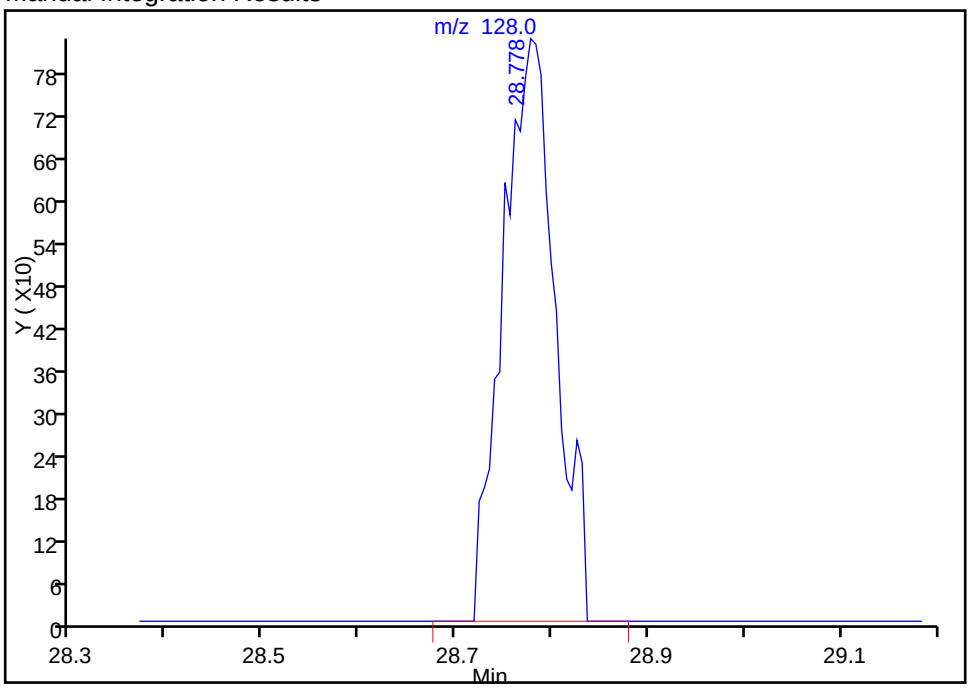
Processing Integration Results

RT: 28.78
Area: 2975
Amount: 0.021054
Amount Units: ppb v/v



Manual Integration Results

RT: 28.78
Area: 3129
Amount: 0.022143
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:48:24
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS04-092315 | Lab Sample ID: 200-29972-7

Matrix: Air | Lab File ID: 15991_011.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:46

Sample wt/vol: 20(mL) | Date Analyzed: 09/29/2015 18:44

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	4.0	J	5.0	0.80
75-45-6	Freon 22	86.47	5.0	U	5.0	0.57
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.38
74-87-3	Chloromethane	50.49	5.0	U	5.0	0.93
106-97-8	n-Butane	58.12	5.0	U	5.0	0.78
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.32
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.89
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.56
75-00-3	Chloroethane	64.52	5.0	U	5.0	0.85
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.0	U	2.0	0.44
75-69-4	Trichlorofluoromethane	137.37	34		2.0	0.38
76-13-1	Freon TF	187.38	2.0	U	2.0	0.75
75-35-4	1,1-Dichloroethene	96.94	5.1		2.0	0.36
67-64-1	Acetone	58.08	14	J	50	8.6
67-63-0	Isopropyl alcohol	60.10	50	U	50	9.8
75-15-0	Carbon disulfide	76.14	5.0	U	5.0	0.43
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.68
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	1.8
75-65-0	tert-Butyl alcohol	74.12	50	U	50	8.5
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.89
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.43
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.54
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.25
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	0.52
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.35
540-59-0	1,2-Dichloroethene, Total	96.94	4.0	U	4.0	0.35
67-66-3	Chloroform	119.38	33		2.0	0.82
109-99-9	Tetrahydrofuran	72.11	50	U	50	14
71-55-6	1,1,1-Trichloroethane	133.41	20		2.0	0.46
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.39
56-23-5	Carbon tetrachloride	153.81	0.40	U	0.40	0.32
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.39
71-43-2	Benzene	78.11	0.48	J	2.0	0.42
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.41

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS04-092315 | Lab Sample ID: 200-29972-7

Matrix: Air | Lab File ID: 15991_011.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:46

Sample wt/vol: 20(mL) | Date Analyzed: 09/29/2015 18:44

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.40
79-01-6	Trichloroethene	131.39	210		0.40	0.39
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	0.40
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.27
123-91-1	1,4-Dioxane	88.11	50	U	50	5.6
75-27-4	Bromodichloromethane	163.83	2.9		2.0	0.30
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.23
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.50
108-88-3	Toluene	92.14	2.0	U	2.0	0.93
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.34
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.39
127-18-4	Tetrachloroethene	165.83	2.4		2.0	0.23
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.57
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.44
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.39
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.49
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.33
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.71
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.37
1330-20-7	Xylene (total)	106.17	7.0	U	7.0	0.37
100-42-5	Styrene	104.15	2.0	U	2.0	0.43
75-25-2	Bromoform	252.75	2.0	U	2.0	0.56
98-82-8	Cumene	120.19	2.0	U	2.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.44
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.43
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.44
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.39
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.33
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.44
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.43
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.44
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.37
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.55
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.57

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS04-092315 Lab Sample ID: 200-29972-7

Matrix: Air Lab File ID: 15991_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:46

Sample wt/vol: 20(mL) Date Analyzed: 09/29/2015 18:44

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.53
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.47
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.55
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	0.68
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.82
91-20-3	Naphthalene	128.17	5.0	U	5.0	0.57

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS04-092315 | Lab Sample ID: 200-29972-7

Matrix: Air | Lab File ID: 15991_011.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:46

Sample wt/vol: 20(mL) | Date Analyzed: 09/29/2015 18:44

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	20	J	25	4.0
75-45-6	Freon 22	86.47	18	U	18	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.7
74-87-3	Chloromethane	50.49	10	U	10	1.9
106-97-8	n-Butane	58.12	12	U	12	1.9
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	0.82
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	2.0
74-83-9	Bromomethane	94.94	7.8	U	7.8	2.2
75-00-3	Chloroethane	64.52	13	U	13	2.2
593-60-2	Bromoethene(Vinyl Bromide)	106.96	8.7	U	8.7	1.9
75-69-4	Trichlorofluoromethane	137.37	190		11	2.1
76-13-1	Freon TF	187.38	15	U	15	5.7
75-35-4	1,1-Dichloroethene	96.94	20		7.9	1.4
67-64-1	Acetone	58.08	33	J	120	20
67-63-0	Isopropyl alcohol	60.10	120	U	120	24
75-15-0	Carbon disulfide	76.14	16	U	16	1.3
107-05-1	3-Chloropropene	76.53	16	U	16	2.1
75-09-2	Methylene Chloride	84.93	17	U	17	6.3
75-65-0	tert-Butyl alcohol	74.12	150	U	150	26
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	3.2
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	1.7
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.9
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	1.0
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	1.5
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.4
540-59-0	1,2-Dichloroethene, Total	96.94	16	U	16	1.4
67-66-3	Chloroform	119.38	160		9.8	4.0
109-99-9	Tetrahydrofuran	72.11	150	U	150	41
71-55-6	1,1,1-Trichloroethane	133.41	110		11	2.5
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.3
56-23-5	Carbon tetrachloride	153.81	2.5	U	2.5	2.0
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	1.8
71-43-2	Benzene	78.11	1.5	J	6.4	1.3
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS04-092315 Lab Sample ID: 200-29972-7

Matrix: Air Lab File ID: 15991_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:46

Sample wt/vol: 20(mL) Date Analyzed: 09/29/2015 18:44

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	8.2	U	8.2	1.6
79-01-6	Trichloroethene	131.39	1100		2.1	2.1
80-62-6	Methyl methacrylate	100.12	20	U	20	1.6
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.2
123-91-1	1,4-Dioxane	88.11	180	U	180	20
75-27-4	Bromodichloromethane	163.83	20		13	2.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.0
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.0
108-88-3	Toluene	92.14	7.5	U	7.5	3.5
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.5
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	2.1
127-18-4	Tetrachloroethene	165.83	17		14	1.6
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	2.3
124-48-1	Dibromochloromethane	208.29	17	U	17	3.7
106-93-4	1,2-Dibromoethane	187.87	15	U	15	3.0
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	2.3
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.4
179601-23-1	m,p-Xylene	106.17	22	U	22	3.1
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.6
1330-20-7	Xylene (total)	106.17	30	U	30	1.6
100-42-5	Styrene	104.15	8.5	U	8.5	1.8
75-25-2	Bromoform	252.75	21	U	21	5.8
98-82-8	Cumene	120.19	9.8	U	9.8	1.5
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	3.0
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.1
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.2
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	1.9
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.7
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.4
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.1
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.4
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.0
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.3
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS04-092315 Lab Sample ID: 200-29972-7

Matrix: Air Lab File ID: 15991_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:46

Sample wt/vol: 20(mL) Date Analyzed: 09/29/2015 18:44

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	10	U	10	2.7
104-51-8	n-Butylbenzene	134.22	11	U	11	2.6
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	3.3
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	5.0
87-68-3	Hexachlorobutadiene	260.76	21	U	21	8.7
91-20-3	Naphthalene	128.17	26	U	26	3.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d
Lims ID: 200-29972-A-7 Lab Sample ID: 200-29972-7
Client ID: FR-SS04-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 18:44:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 10.0000
Sample Info: 200-0015991-011
Misc. Info.: 29972-07
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:49:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.404	4.426	-0.022	99	16056	0.4019	
3 Chlorodifluoromethane	51		4.495				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50		5.009				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.293	7.288	0.005	98	155574	3.43	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.657	8.663	-0.006	93	6704	0.5150	
22 Acetone	43	8.968	8.935	0.033	97	19697	1.40	
23 Carbon disulfide	76	9.166	9.160	0.006	62	1031	0.0329	
24 Isopropyl alcohol	45	9.235	9.219	0.016	95	3115	0.2775	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49		9.925				ND	
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57		10.851				ND	
34 1,1-Dichloroethane	63		11.428				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72		12.653				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	69	125810	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83	13.210	13.215	-0.005	94	101014	3.26	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	93	74481	1.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.772	13.782	-0.010	25	744	0.0181	
46 Isooctane	57		14.183				ND	
47 Benzene	78	14.253	14.253	0.000	1	1978	0.0484	
48 1,2-Dichloroethane	62		14.419				ND	
49 n-Heptane	43		14.531				ND	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	603301	10.0	
53 Trichloroethene	95	15.478	15.478	0.000	94	447703	21.4	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83	16.505	16.500	0.005	97	10449	0.2934	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
65 Toluene	92	17.960	17.960	0.000	87	2087	0.0581	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166	18.988	18.987	0.001	96	10557	0.2444	
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106		20.100				ND	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	620555	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91		20.897				ND	
78 m-Xylene & p-Xylene	106		21.106				ND	
79 o-Xylene	106		21.801				ND	
80 Styrene	104		21.839				ND	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105		22.352				ND	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91		22.973				ND	
88 4-Ethyltoluene	105		23.144				ND	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105		23.235				ND	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105		23.813				ND	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119		24.268				ND	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146		24.482				ND	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

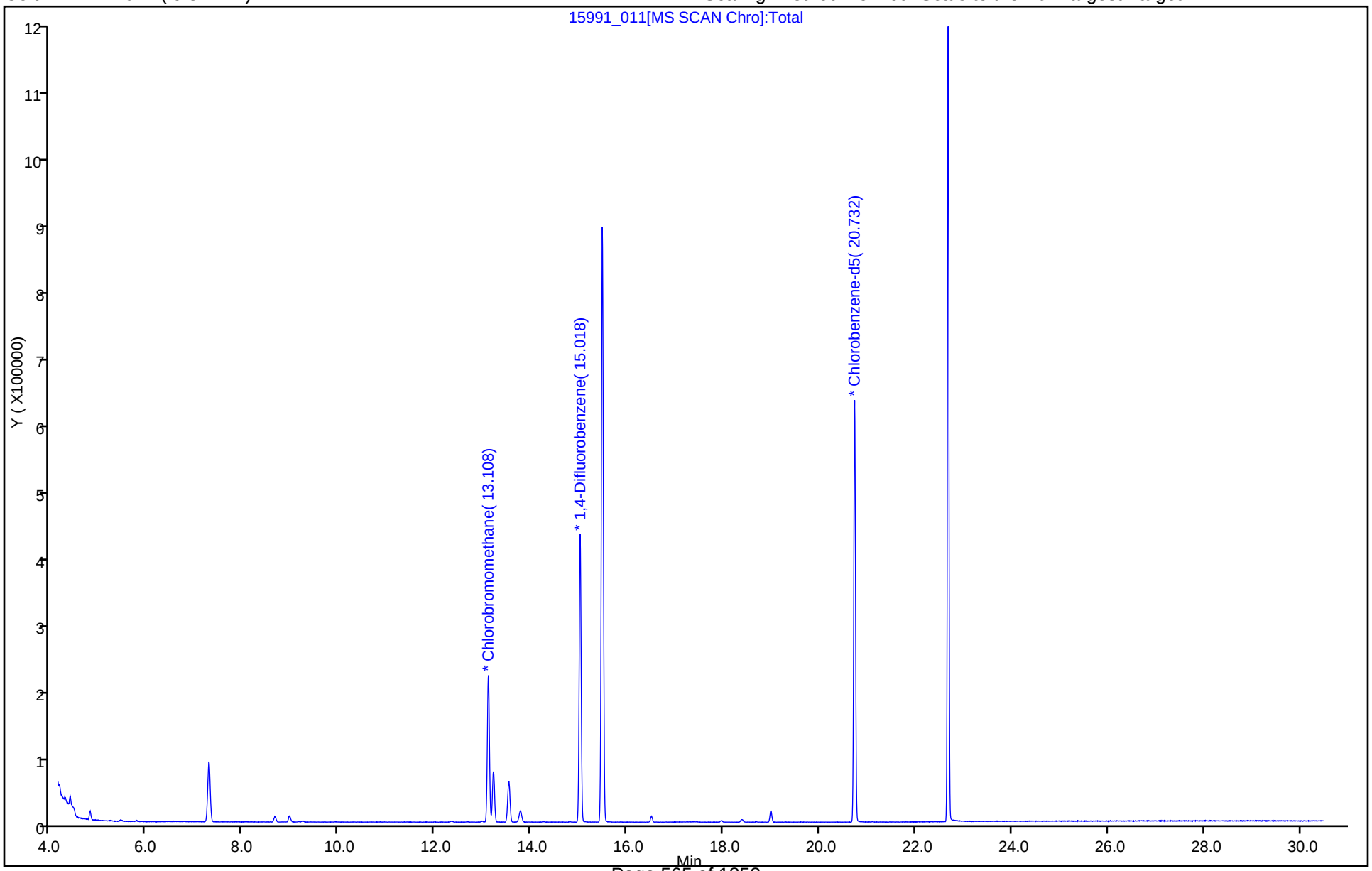
Report Date: 30-Sep-2015 14:17:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d

Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7	Worklist Smp#:	11
Client ID:	FR-SS04-092315				
Purge Vol:	200.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	10
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



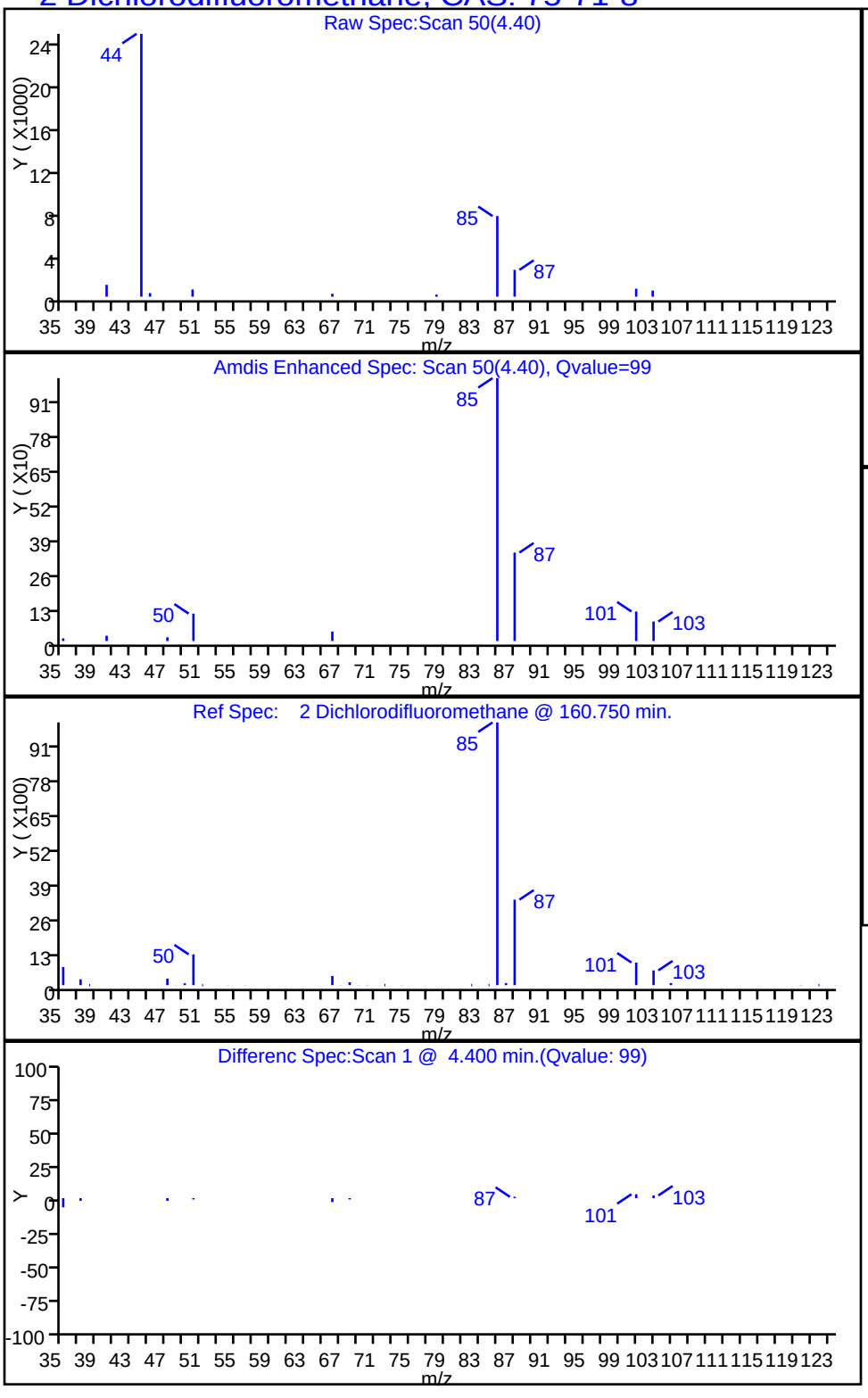
Report Date: 30-Sep-2015 14:17:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

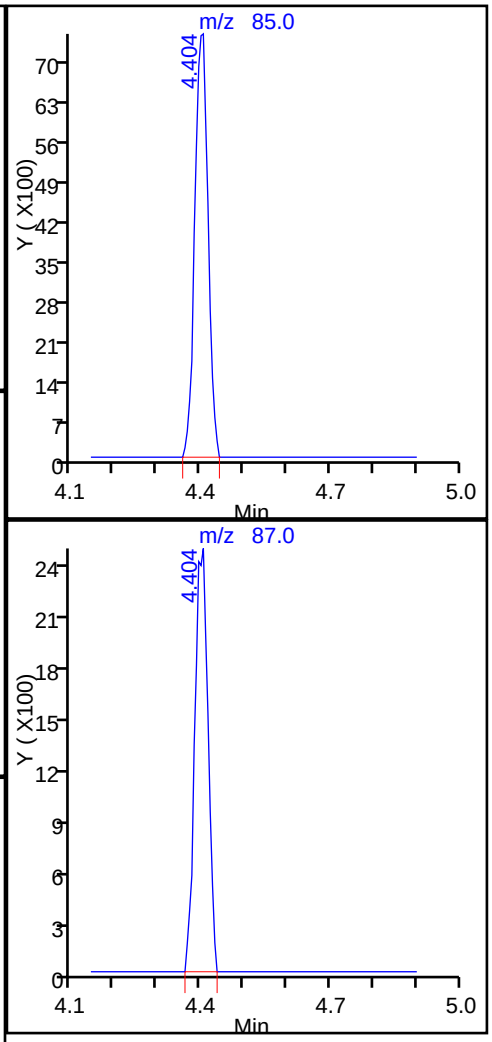
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d

Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8



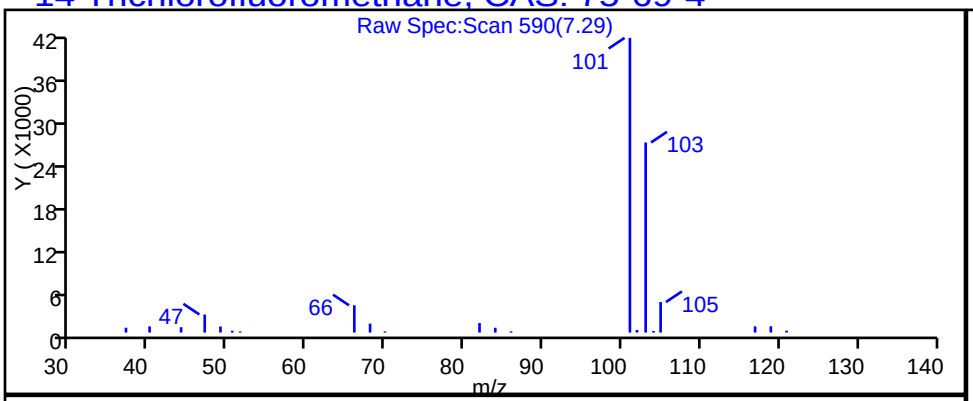


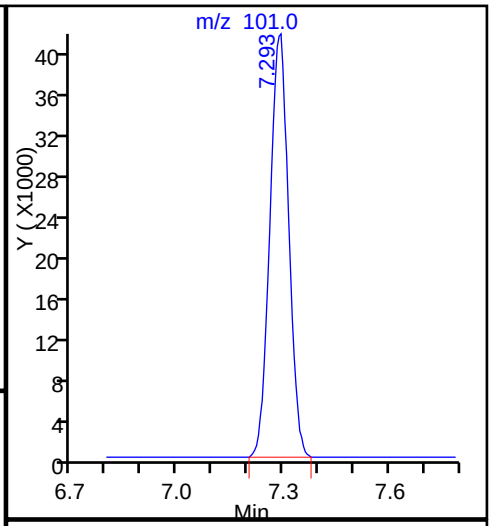
Report Date: 30-Sep-2015 14:17:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

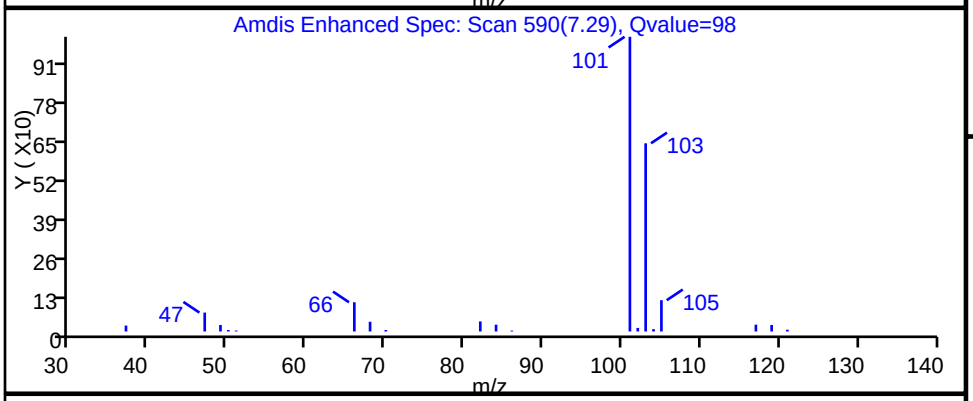
TestAmerica Burlington

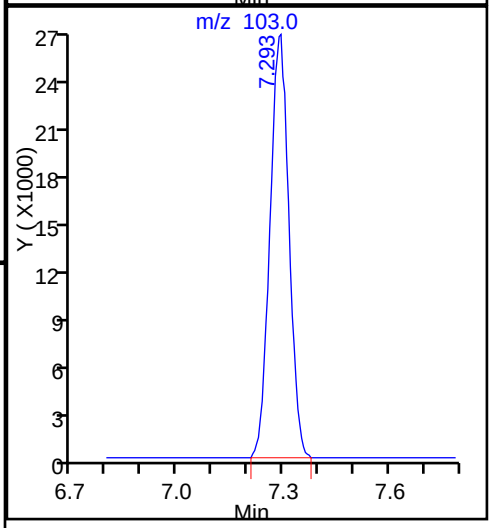
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d				
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

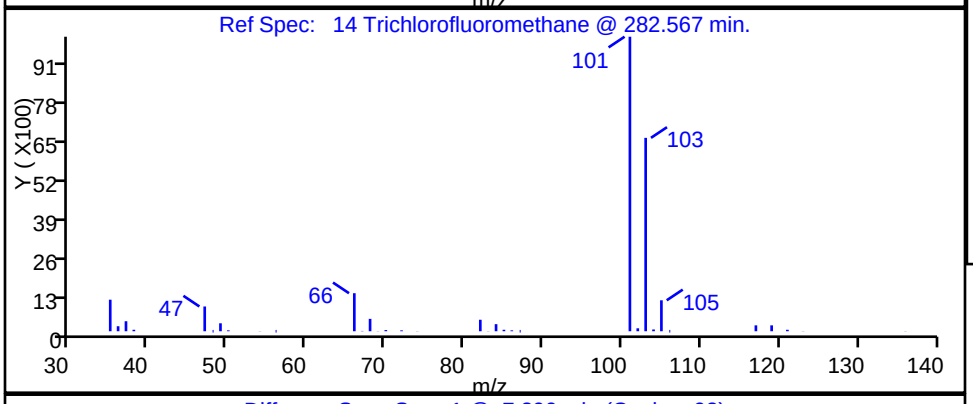
14 Trichlorofluoromethane, CAS: 75-69-4

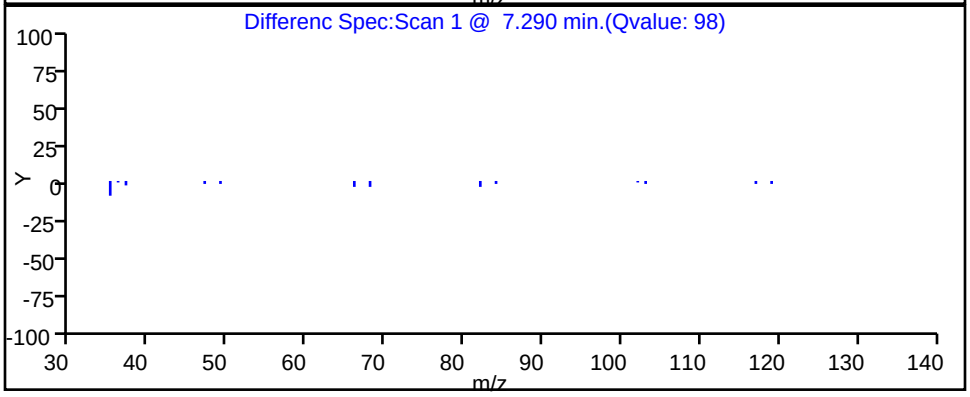












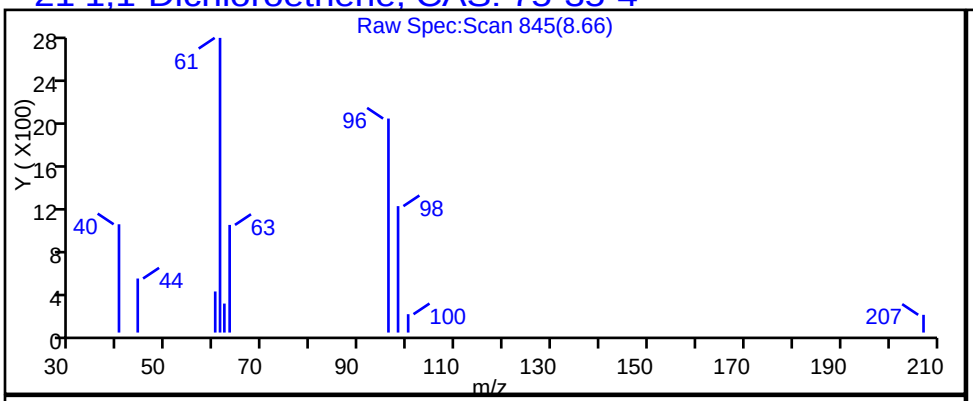
Report Date: 30-Sep-2015 14:17:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

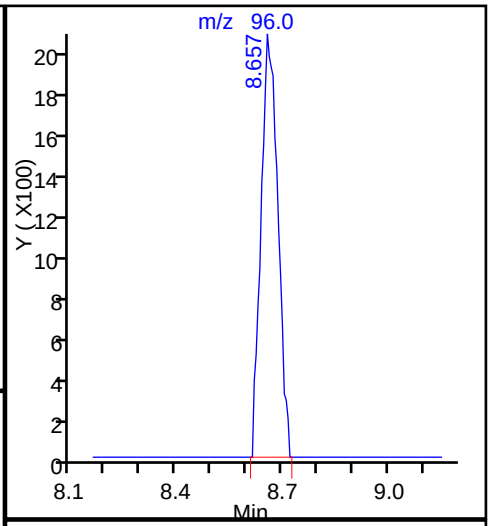
TestAmerica Burlington

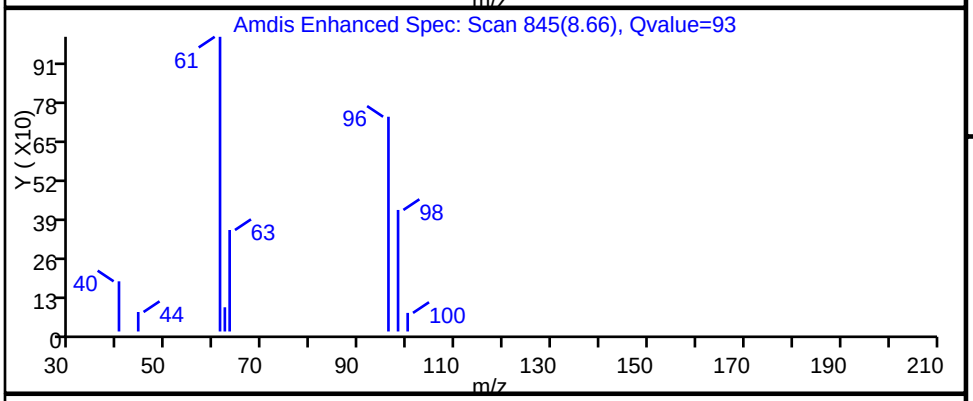
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d

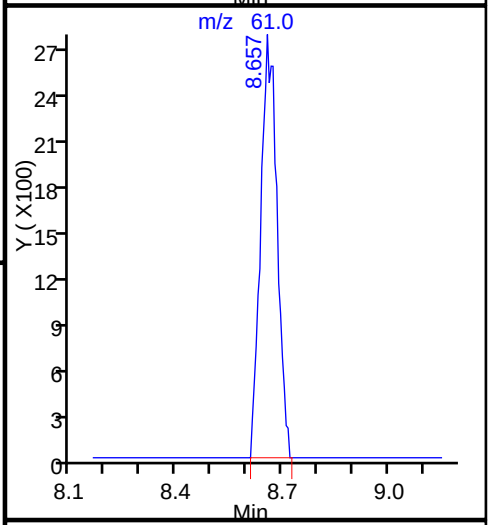
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

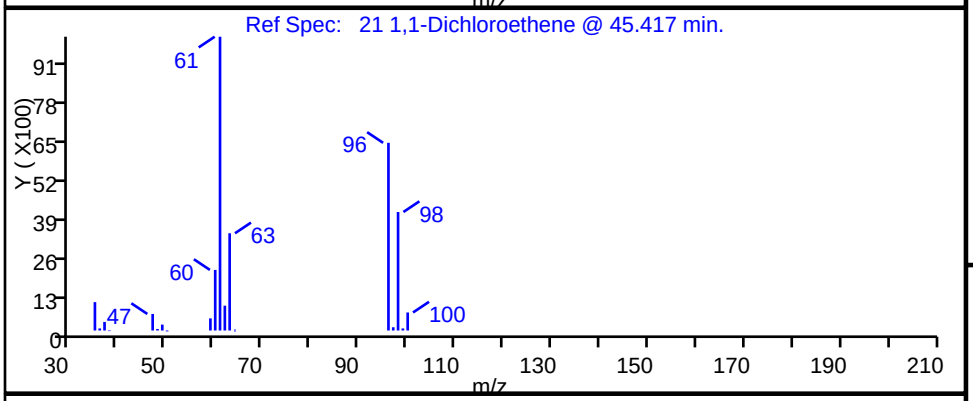
21 1,1-Dichloroethene, CAS: 75-35-4

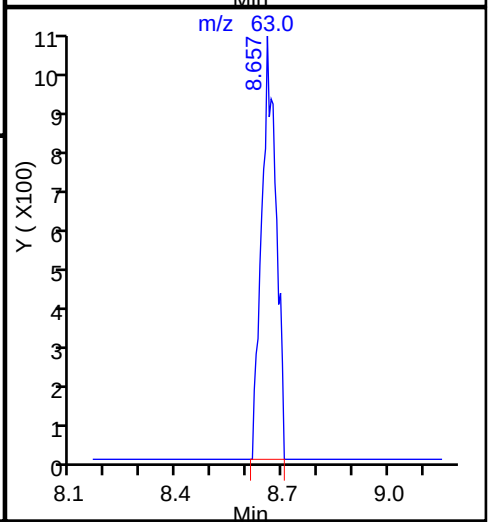


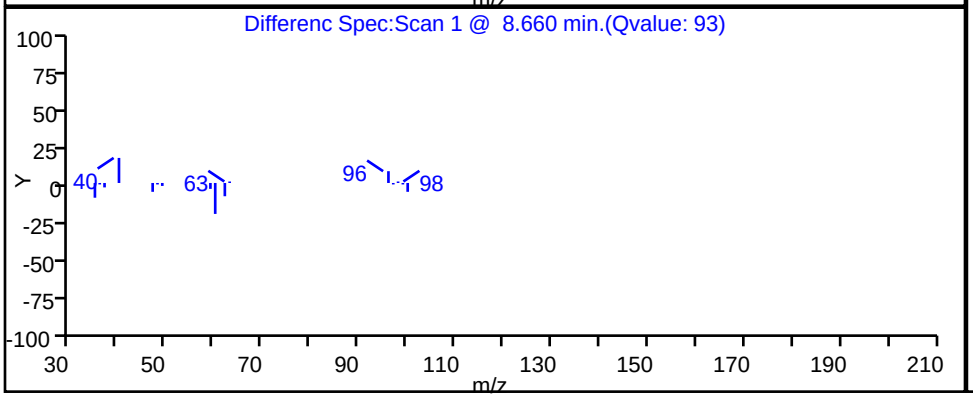












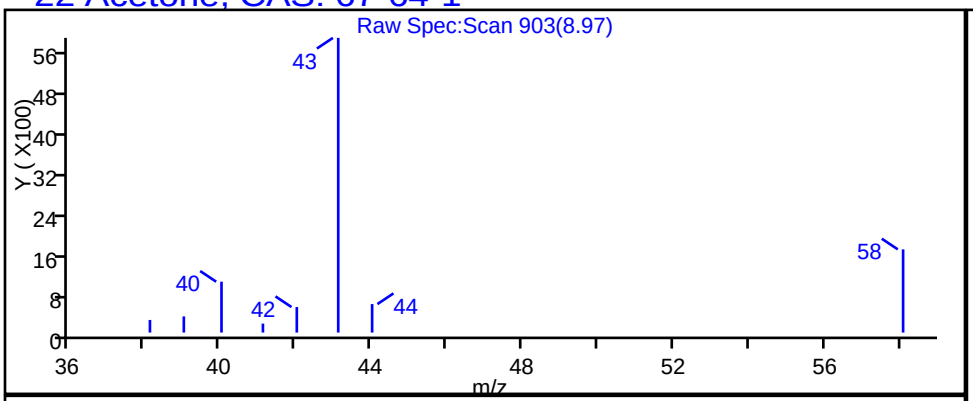
Report Date: 30-Sep-2015 14:17:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

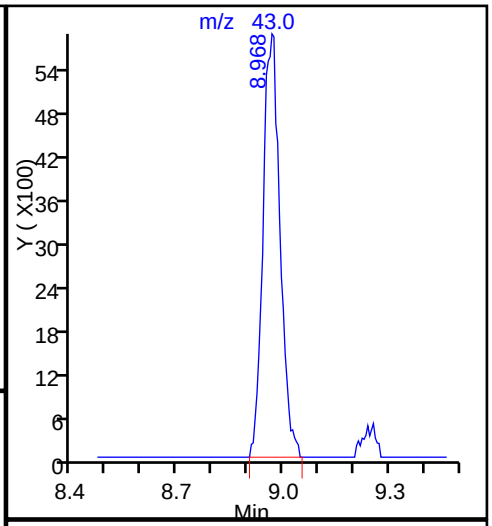
TestAmerica Burlington

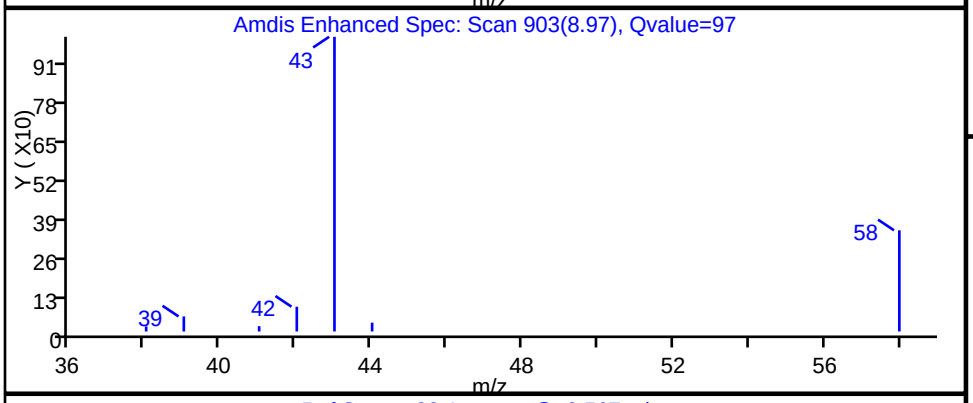
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d

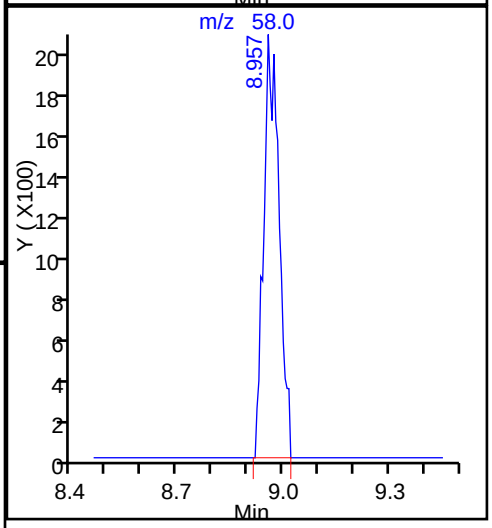
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

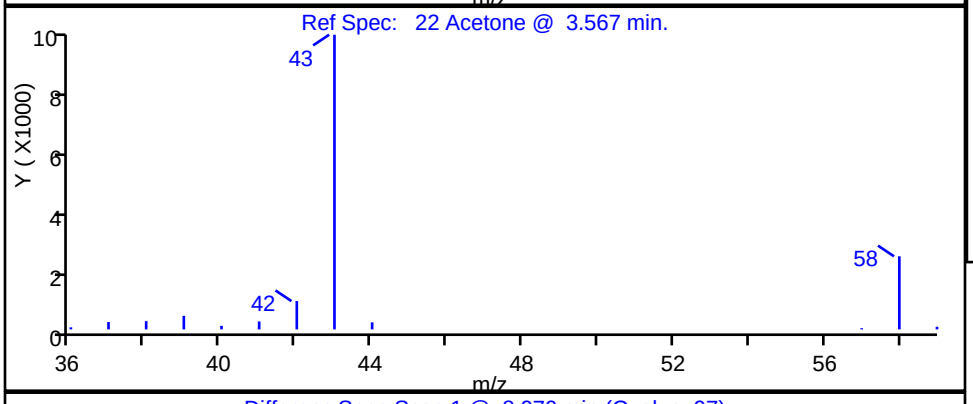
22 Acetone, CAS: 67-64-1

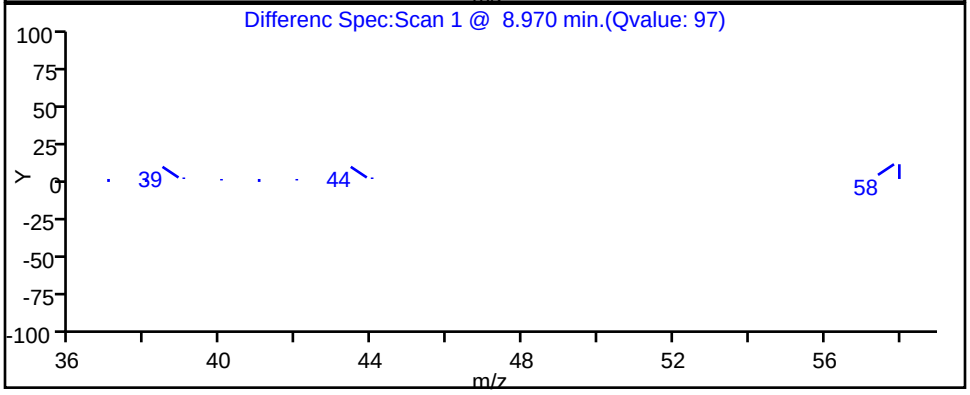










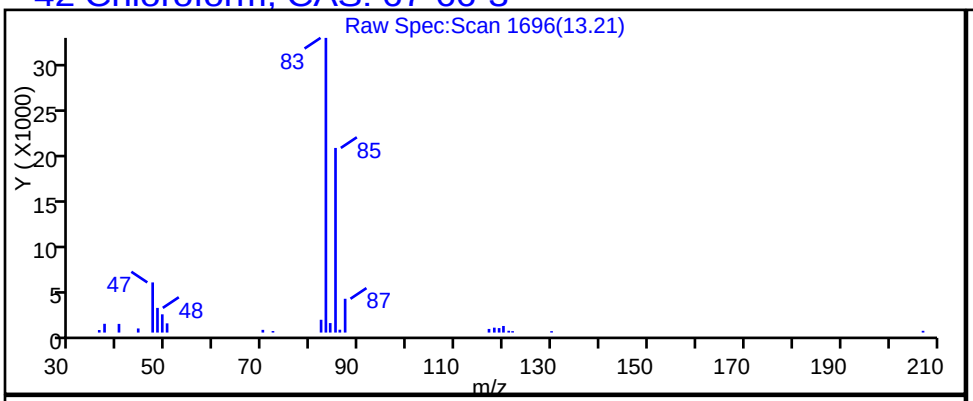


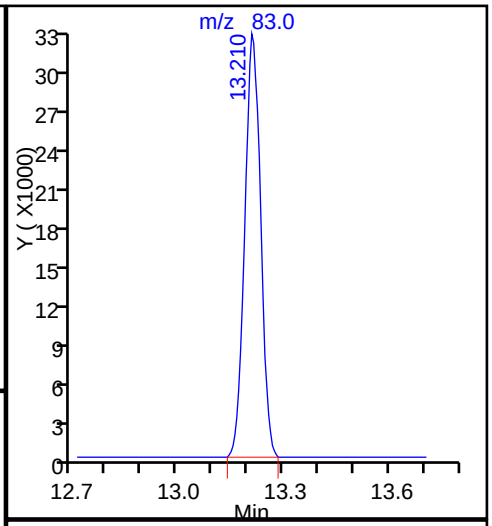
Report Date: 30-Sep-2015 14:17:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

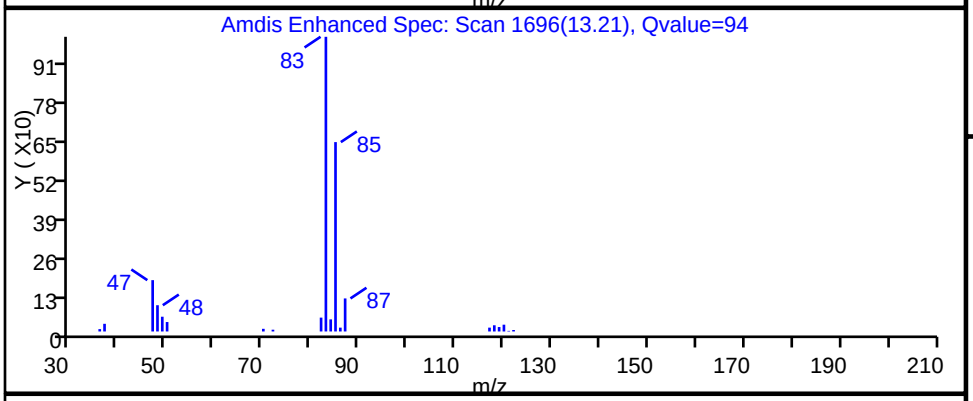
TestAmerica Burlington

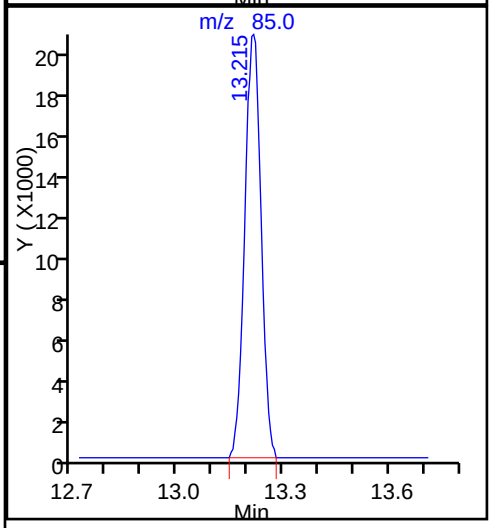
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d				
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

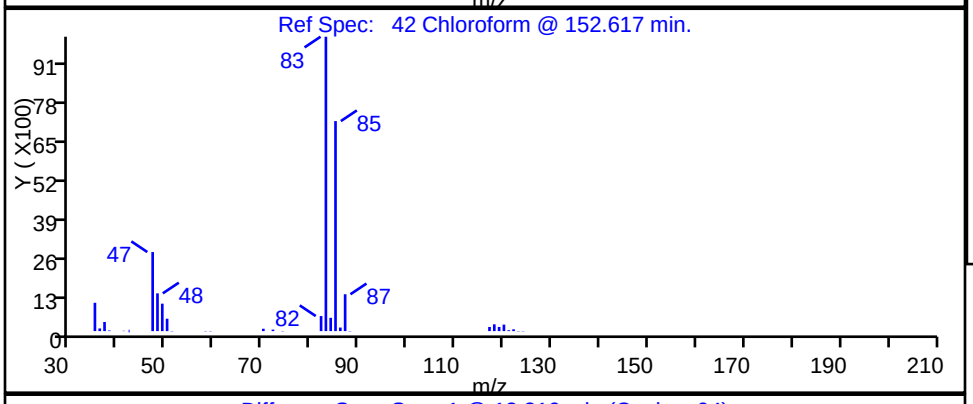
42 Chloroform, CAS: 67-66-3

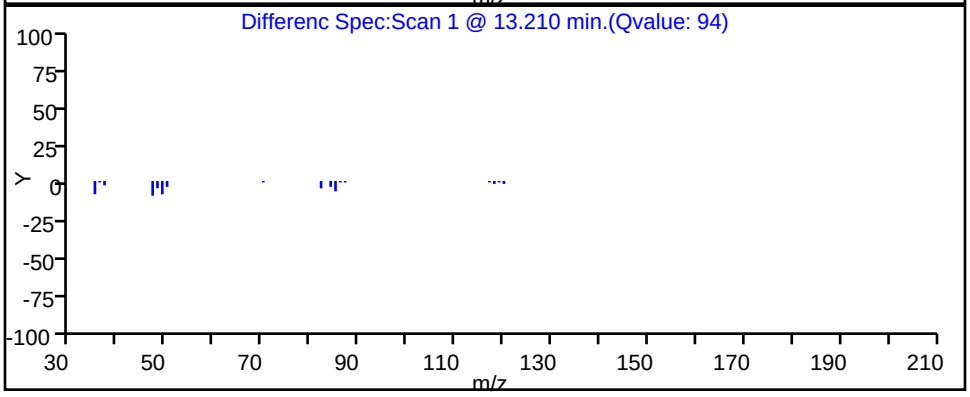










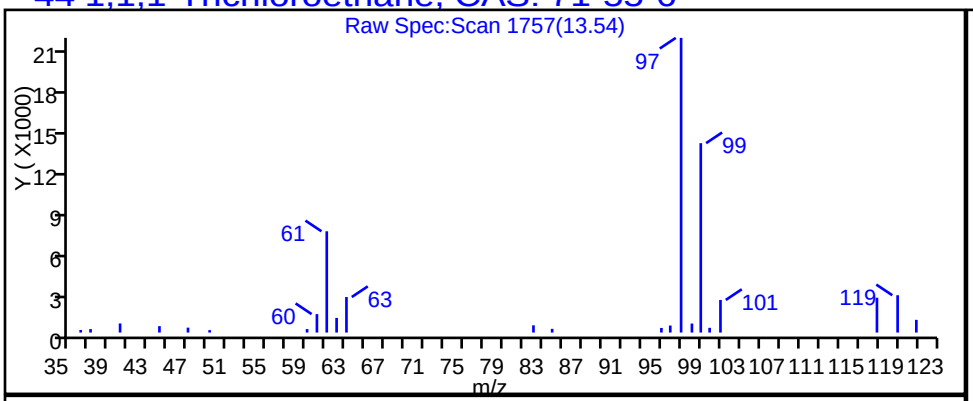


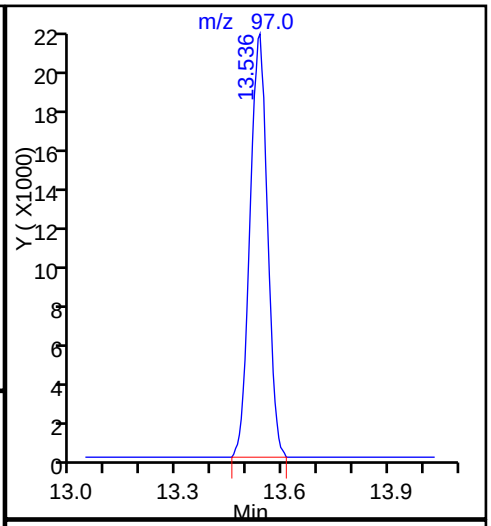
Report Date: 30-Sep-2015 14:17:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

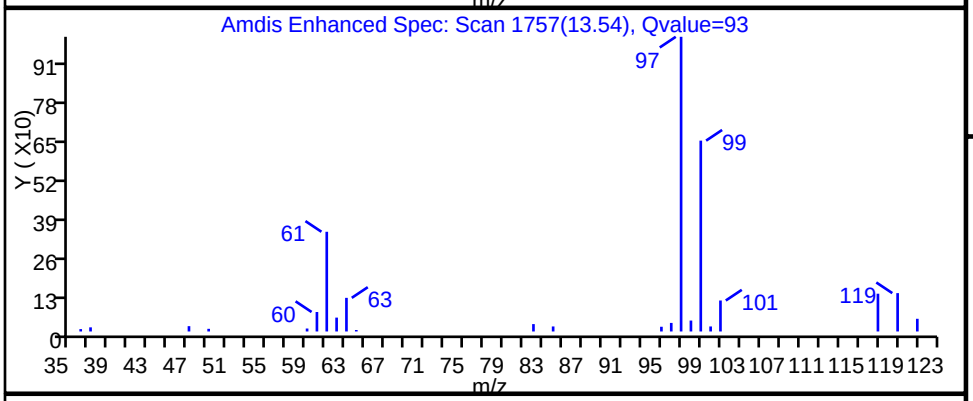
TestAmerica Burlington

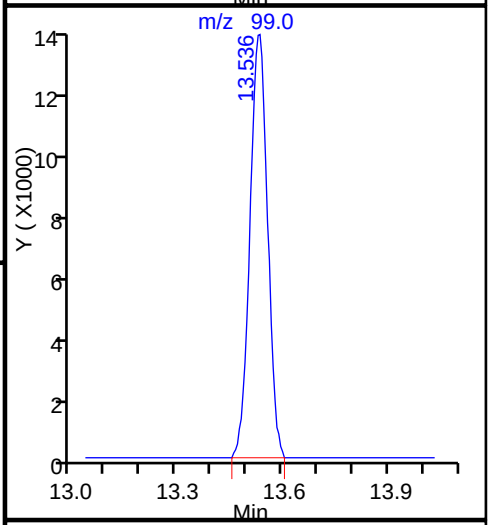
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d				
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

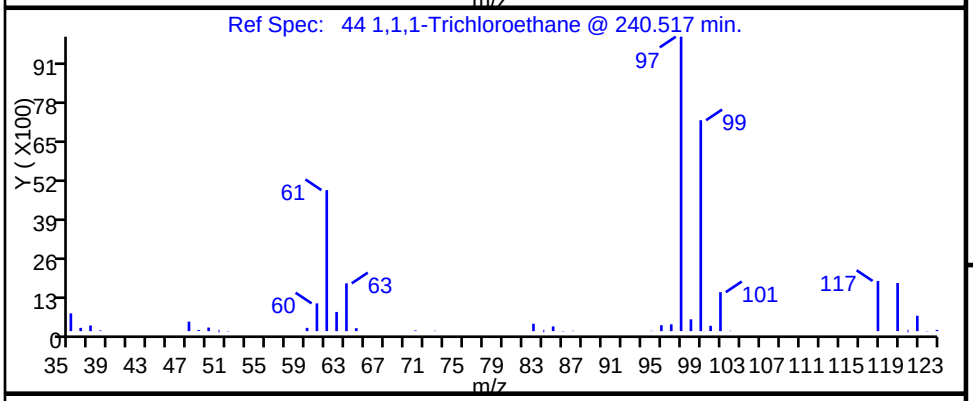
44 1,1,1-Trichloroethane, CAS: 71-55-6

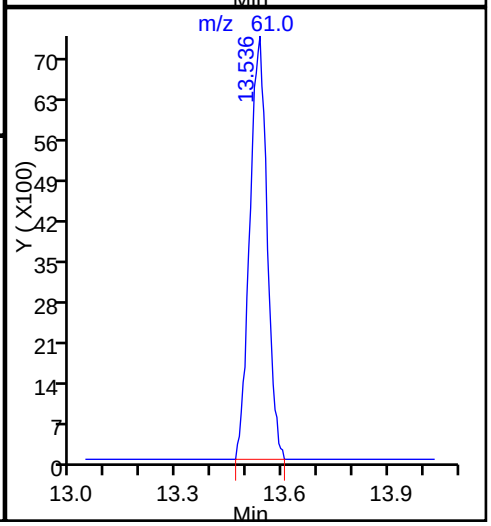


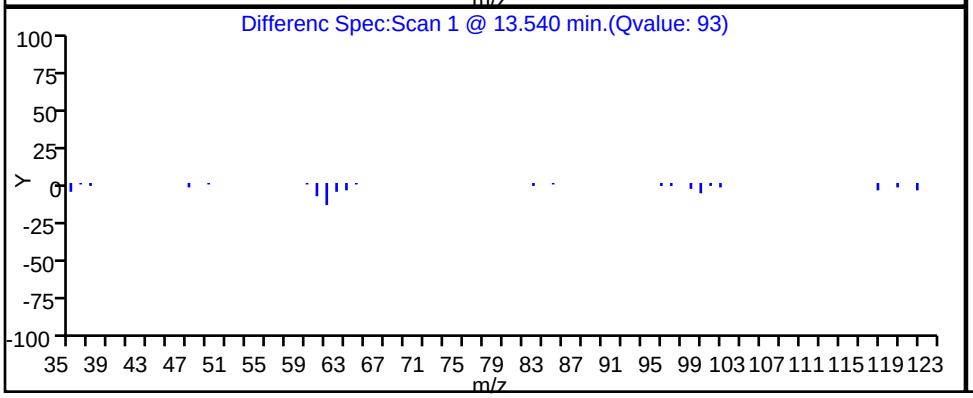












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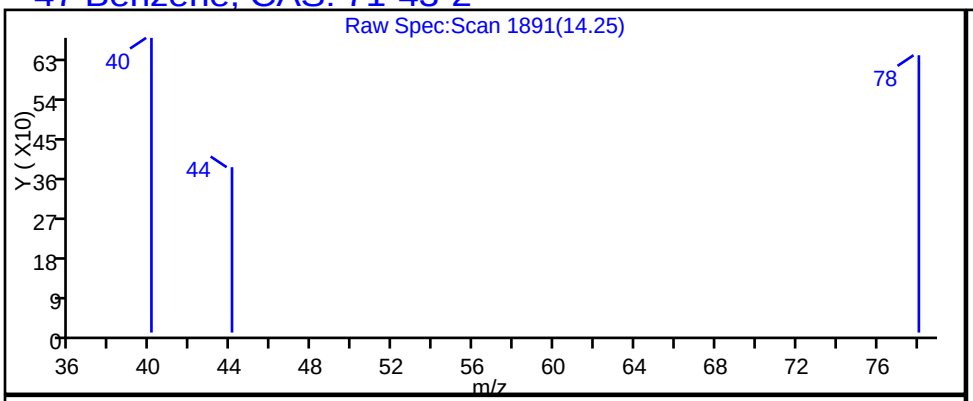
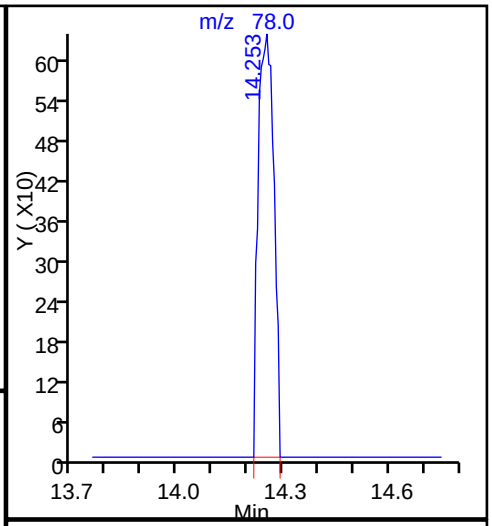
TestAmerica Burlington

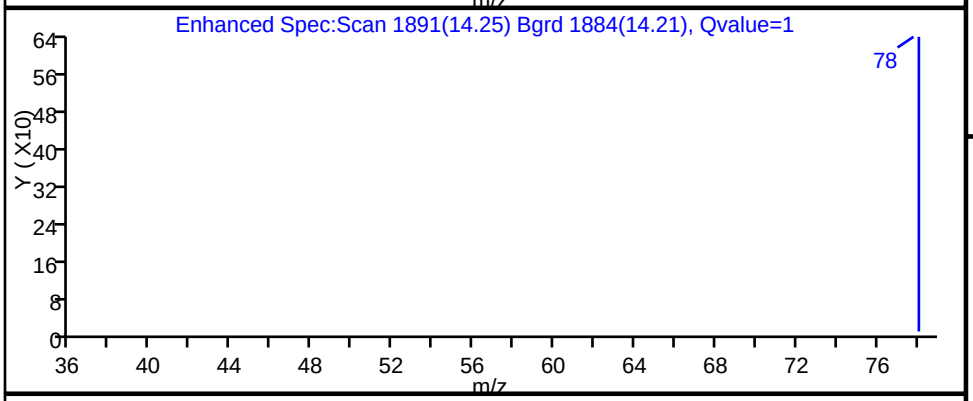
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d

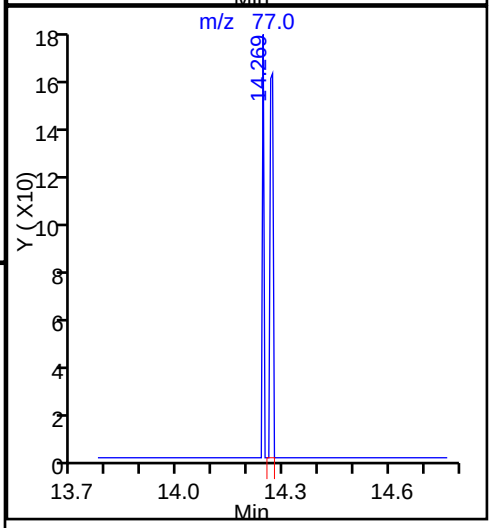
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

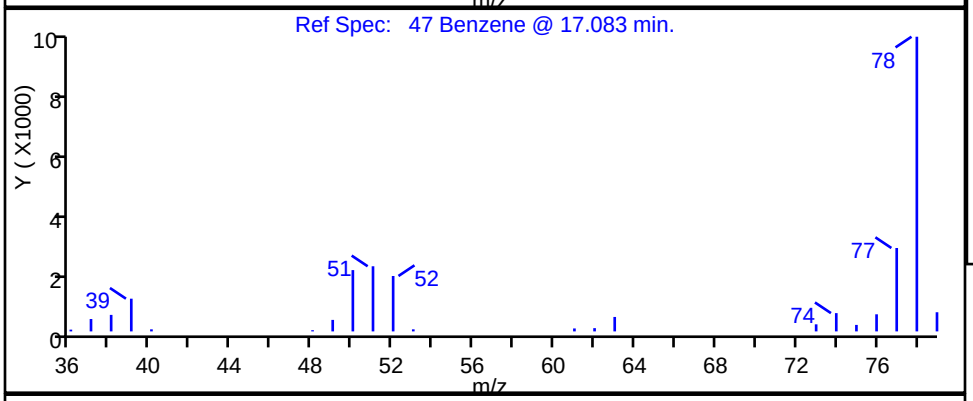
47 Benzene, CAS: 71-43-2

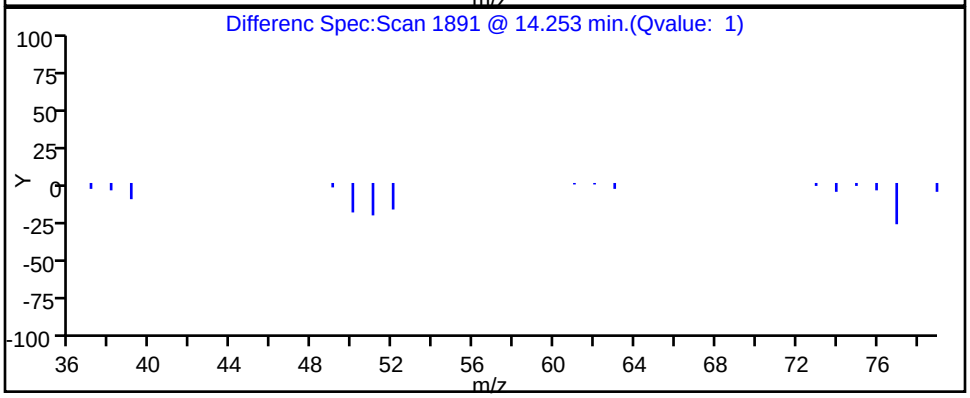












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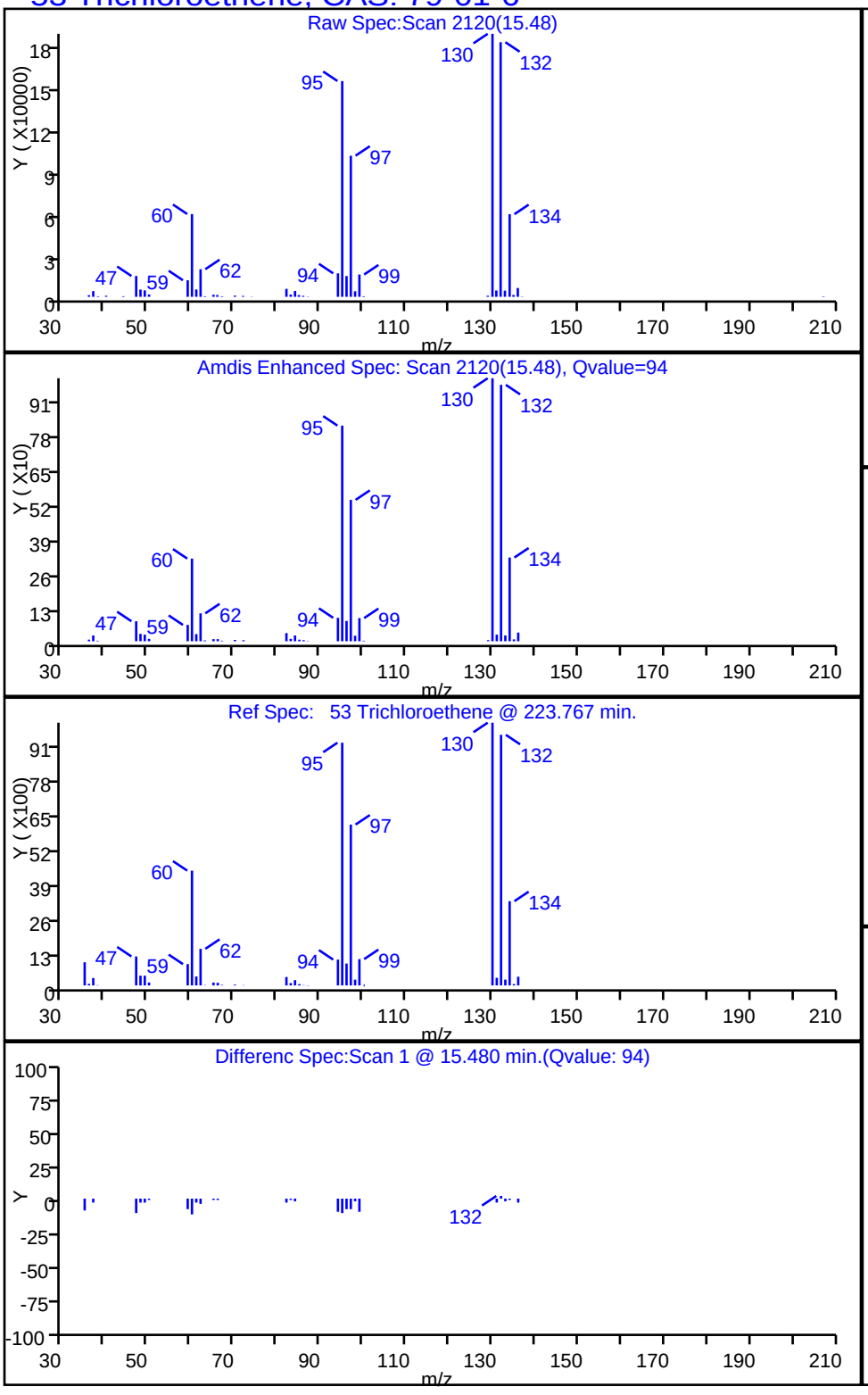
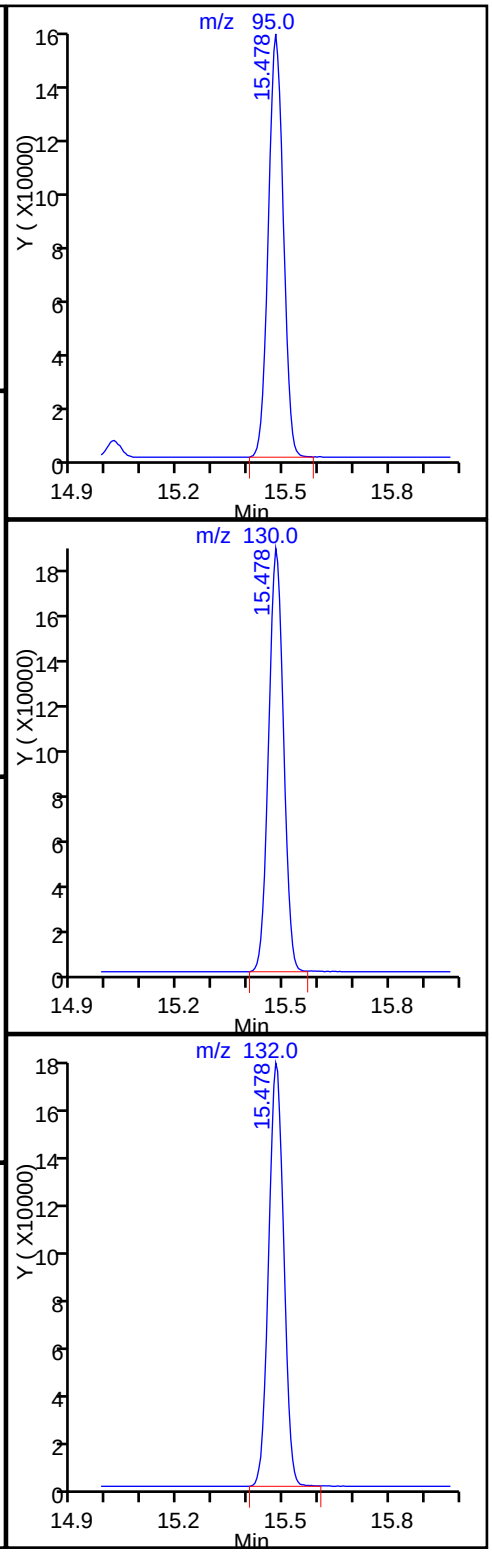
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d				
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6



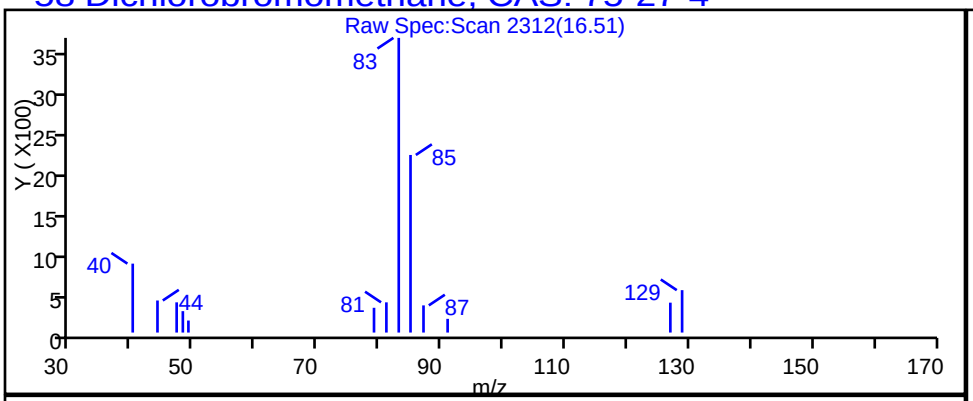


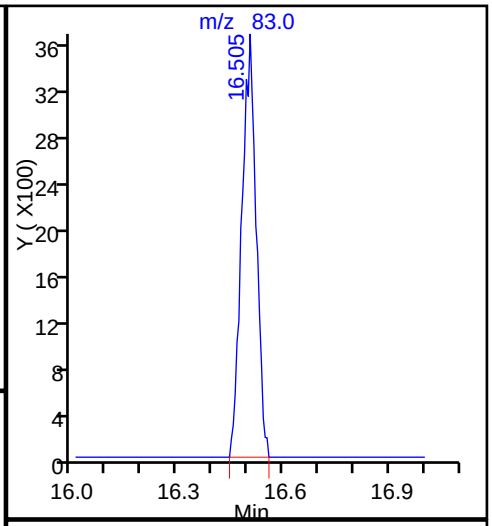
Report Date: 30-Sep-2015 14:17:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

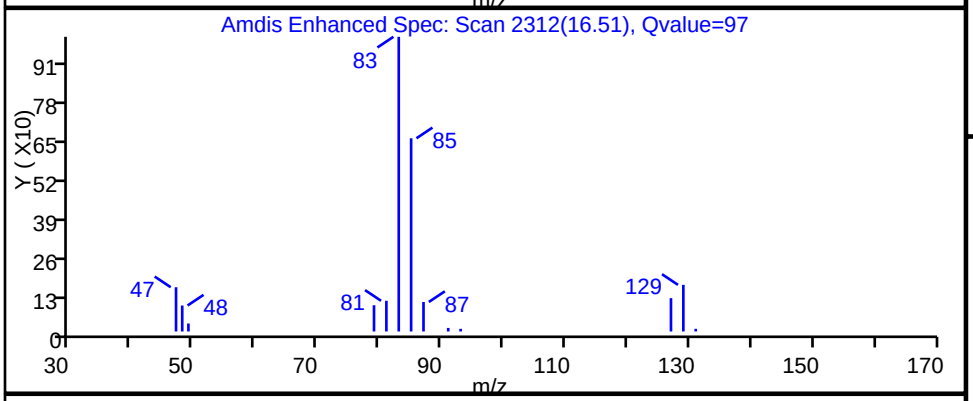
TestAmerica Burlington

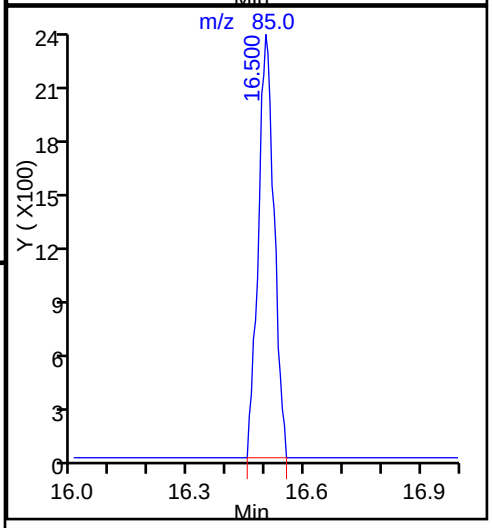
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d				
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

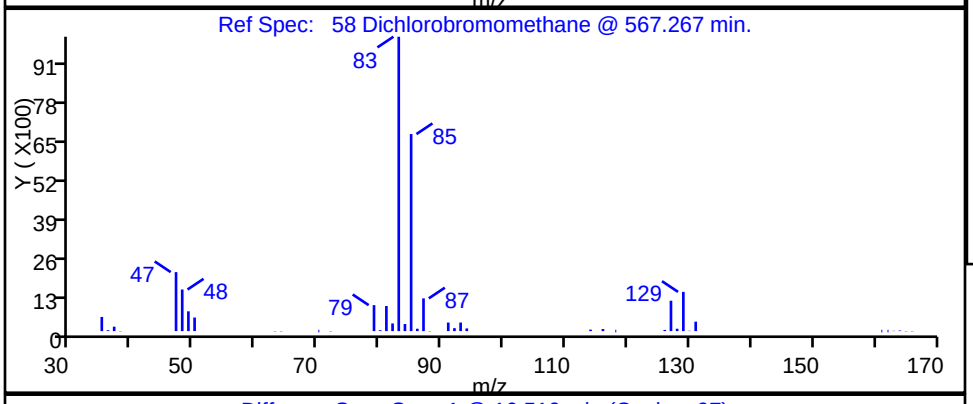
58 Dichlorobromomethane, CAS: 75-27-4

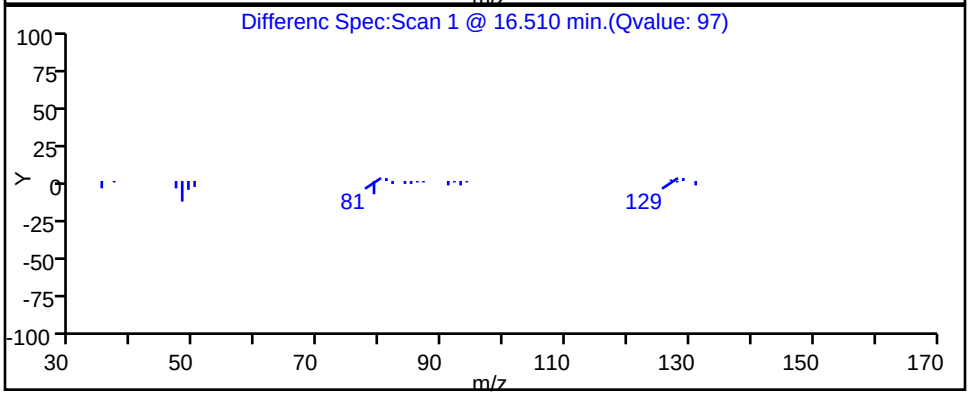












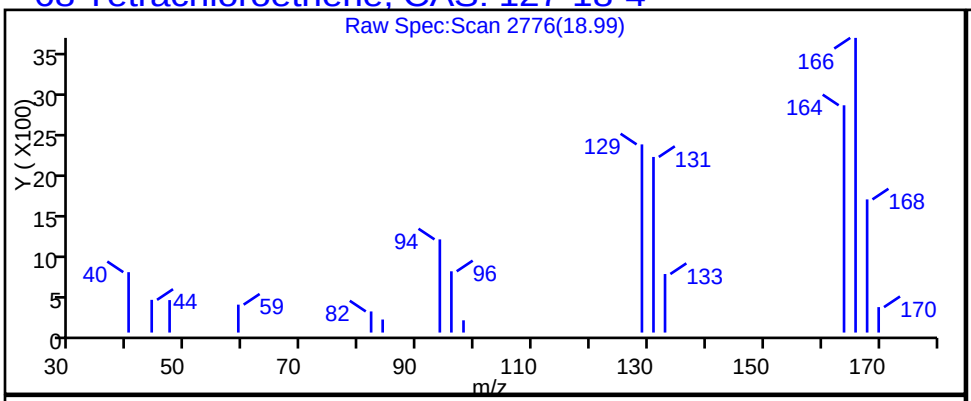
Report Date: 30-Sep-2015 14:17:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

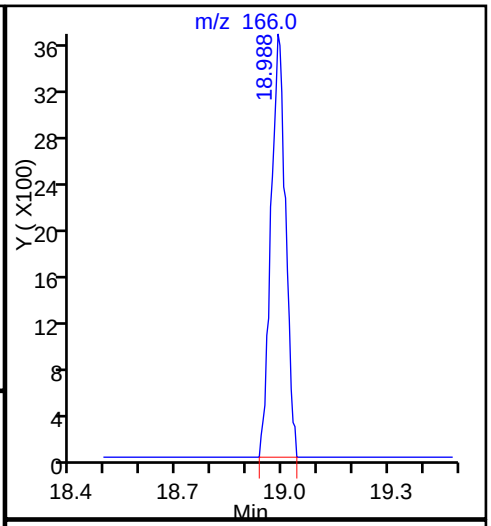
TestAmerica Burlington

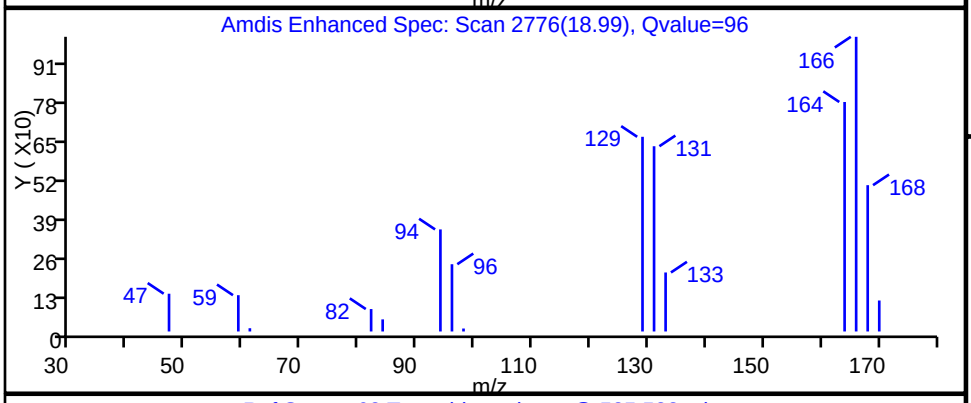
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_011.d

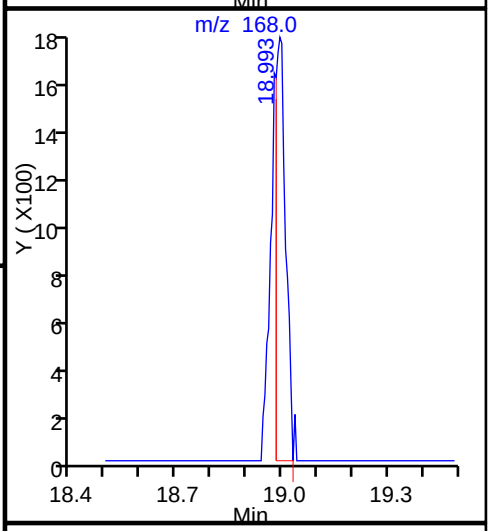
Injection Date:	29-Sep-2015 18:44:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-7	Lab Sample ID:	200-29972-7		
Client ID:	FR-SS04-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

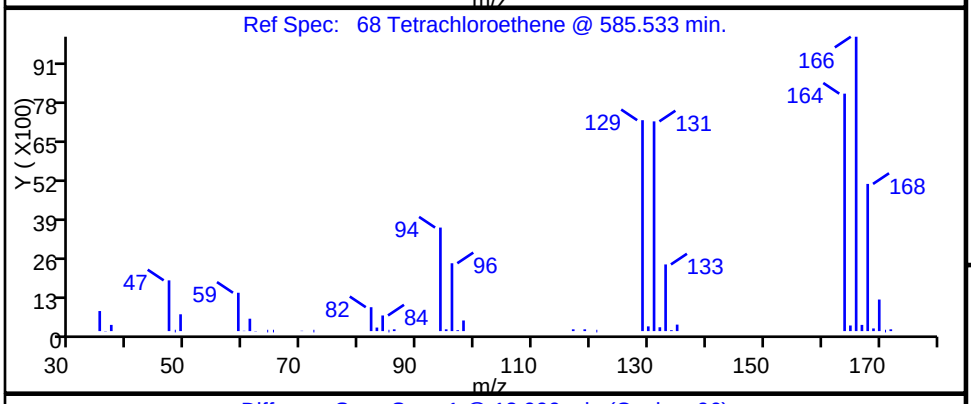
68 Tetrachloroethene, CAS: 127-18-4

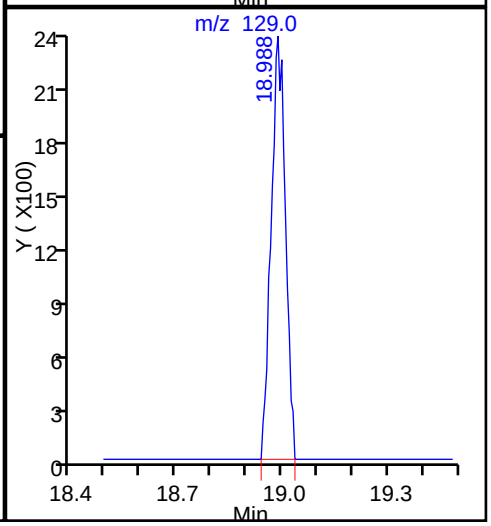


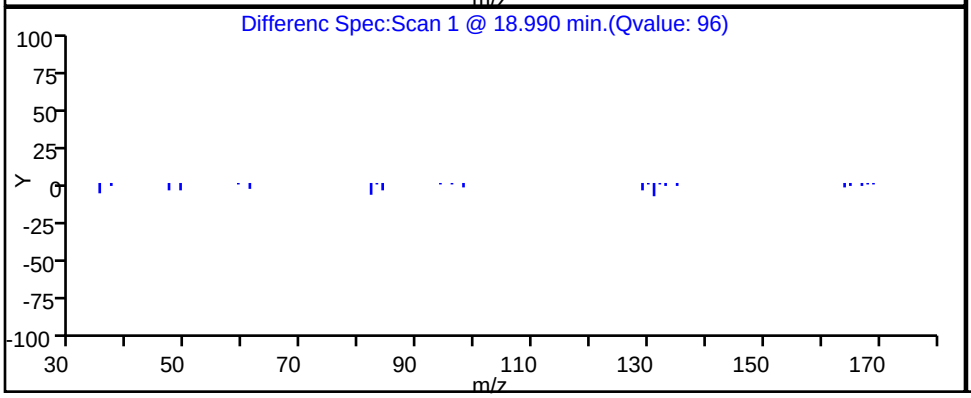












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA04-092315 | Lab Sample ID: 200-29972-8

Matrix: Air | Lab File ID: 15991_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:46

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 19:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.60		0.50	0.080
75-45-6	Freon 22	86.47	0.40	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	1.3		0.50	0.093
106-97-8	n-Butane	58.12	2.8		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.14	J	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	32		0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.14	J	0.20	0.036
67-64-1	Acetone	58.08	14		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	1.2	J	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.19	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.36		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.035	J	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	2.3		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.18	J	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.058	J	0.20	0.046
110-82-7	Cyclohexane	84.16	0.11	J	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.062		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.11	J	0.20	0.039
71-43-2	Benzene	78.11	0.26		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.066	J	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA04-092315 Lab Sample ID: 200-29972-8

Matrix: Air Lab File ID: 15991_012.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:46

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 19:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	4.3	J	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.17	J	0.50	0.050
108-88-3	Toluene	92.14	0.53		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.34	J	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.077	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.24	J	0.50	0.071
95-47-6	Xylene, o-	106.17	0.12	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.36	J	0.70	0.037
100-42-5	Styrene	104.15	0.054	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.069	J	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA04-092315 Lab Sample ID: 200-29972-8

Matrix: Air Lab File ID: 15991_012.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:46

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 19:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA04-092315 | Lab Sample ID: 200-29972-8

Matrix: Air | Lab File ID: 15991_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:46

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 19:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.9		2.5	0.40
75-45-6	Freon 22	86.47	1.4	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	2.6		1.0	0.19
106-97-8	n-Butane	58.12	6.8		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	0.37	J	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	180		1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.57	J	0.79	0.14
67-64-1	Acetone	58.08	34		12	2.0
67-63-0	Isopropyl alcohol	60.10	3.1	J	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	0.65	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	1.3		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.14	J	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	6.8		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.88	J	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	0.32	J	1.1	0.25
110-82-7	Cyclohexane	84.16	0.39	J	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.39		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.51	J	0.93	0.18
71-43-2	Benzene	78.11	0.83		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.27	J	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA04-092315 | Lab Sample ID: 200-29972-8

Matrix: Air | Lab File ID: 15991_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:46

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 19:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	15	J	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	0.69	J	2.0	0.20
108-88-3	Toluene	92.14	2.0		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.4	J	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.33	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	1.0	J	2.2	0.31
95-47-6	Xylene, o-	106.17	0.53	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	1.6	J	3.0	0.16
100-42-5	Styrene	104.15	0.23	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34	J	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA04-092315 Lab Sample ID: 200-29972-8

Matrix: Air Lab File ID: 15991_012.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:46

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 19:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d
Lims ID: 200-29972-A-8 Lab Sample ID: 200-29972-8
Client ID: FR-IA04-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 19:33:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-012
Misc. Info.: 29972-08
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:54:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.426	4.426	0.000	99	29942	0.5960	
3 Chlorodifluoromethane	51	4.501	4.495	0.006	95	8158	0.4028	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.009	5.009	0.000	100	12373	1.26	
6 Butane	43	5.287	5.282	0.005	99	40661	2.84	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64	6.678	6.667	0.011	82	1058	0.1383	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	98	1834474	32.2	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.679	8.663	0.016	89	2362	0.1443	
22 Acetone	43	8.941	8.935	0.006	97	254651	14.4	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.230	9.219	0.011	96	17518	1.24	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.941	9.925	0.016	80	2441	0.1880	
28 2-Methyl-2-propanol	59	10.134	10.112	0.022	95	5558	0.2228	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.861	10.851	0.010	86	6220	0.3612	
34 1,1-Dichloroethane	63	11.434	11.428	0.006	1	886	0.0348	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.654	12.653	0.001	97	18818	2.30	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	158213	10.0	
41 Tetrahydrofuran	42	13.130	13.108	0.022	85	6603	0.5708	
42 Chloroform	83	13.215	13.215	0.000	93	6996	0.1794	
43 Cyclohexane	84	13.526	13.509	0.017	58	2471	0.1136	M
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	87	2723	0.0584	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.782	13.782	0.000	93	3196	0.0623	
46 Isooctane	57	14.184	14.183	0.001	95	6382	0.1083	
47 Benzene	78	14.253	14.253	0.000	95	13136	0.2583	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	92	1621	0.0664	
49 n-Heptane	43		14.531				ND	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	751158	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88	16.195	16.195	0.000	86	38221	4.29	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.624	17.623	0.001	89	4492	0.1681	
65 Toluene	92	17.950	17.960	-0.010	93	22964	0.5269	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166		18.987				ND	
69 2-Hexanone	43	19.266	19.260	0.006	99	10007	0.3434	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.3598	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	753461	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.903	20.897	0.006	96	7466	0.0766	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	9370	0.2380	
79 o-Xylene	106	21.802	21.801	0.001	44	4731	0.1219	
80 Styrene	104	21.844	21.839	0.005	83	3285	0.0540	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105		22.352				ND	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.968	22.973	-0.005	75	4158	0.0290	
88 4-Ethyltoluene	105		23.144				ND	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105		23.235				ND	M
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	95	7813	0.0694	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.263	24.268	-0.006	93	2217	0.0159	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	56	1385	0.0150	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.767	28.767	0.000	96	6539	0.0459	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

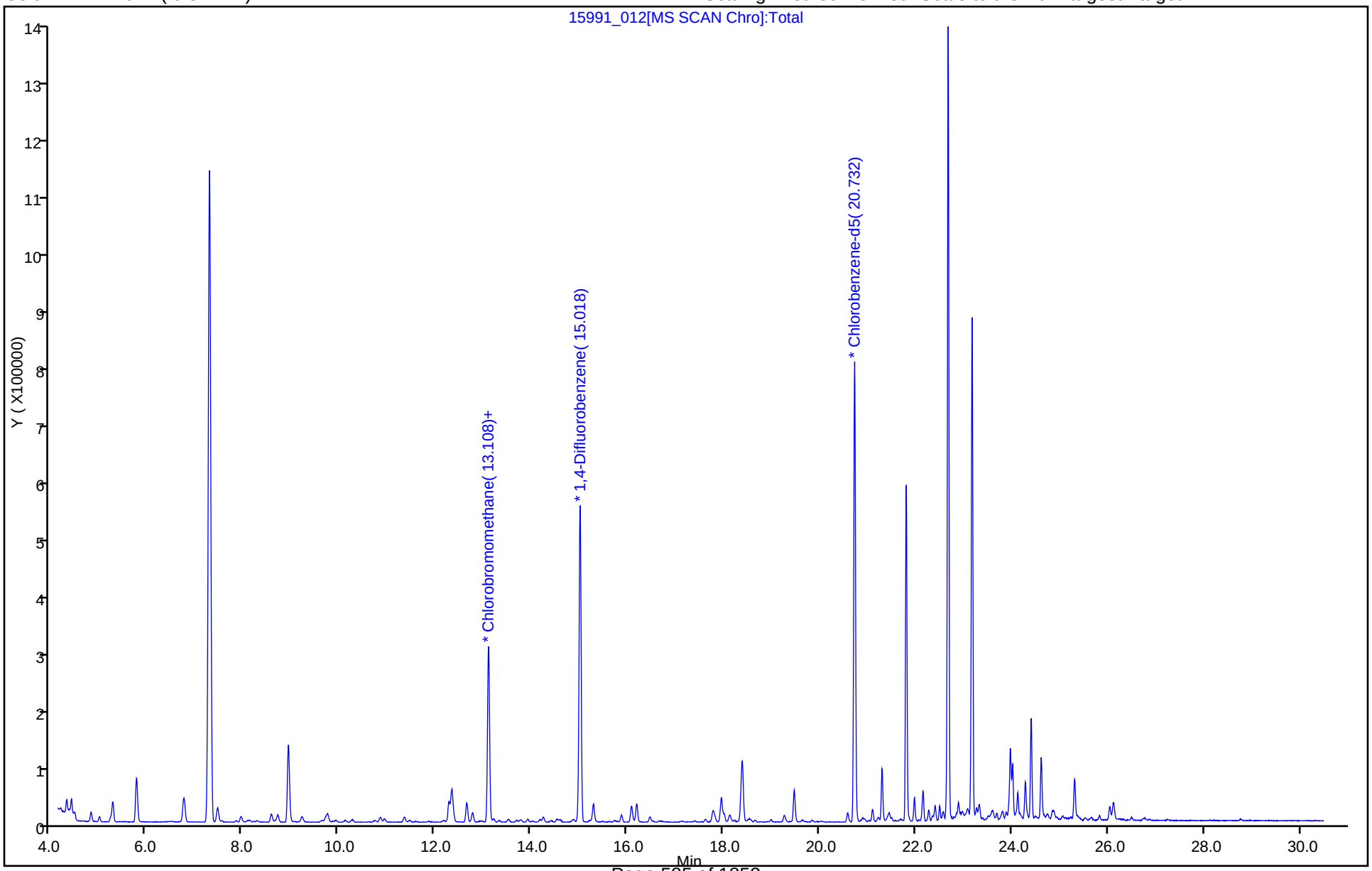
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8	Worklist Smp#:	12
Client ID:	FR-IA04-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

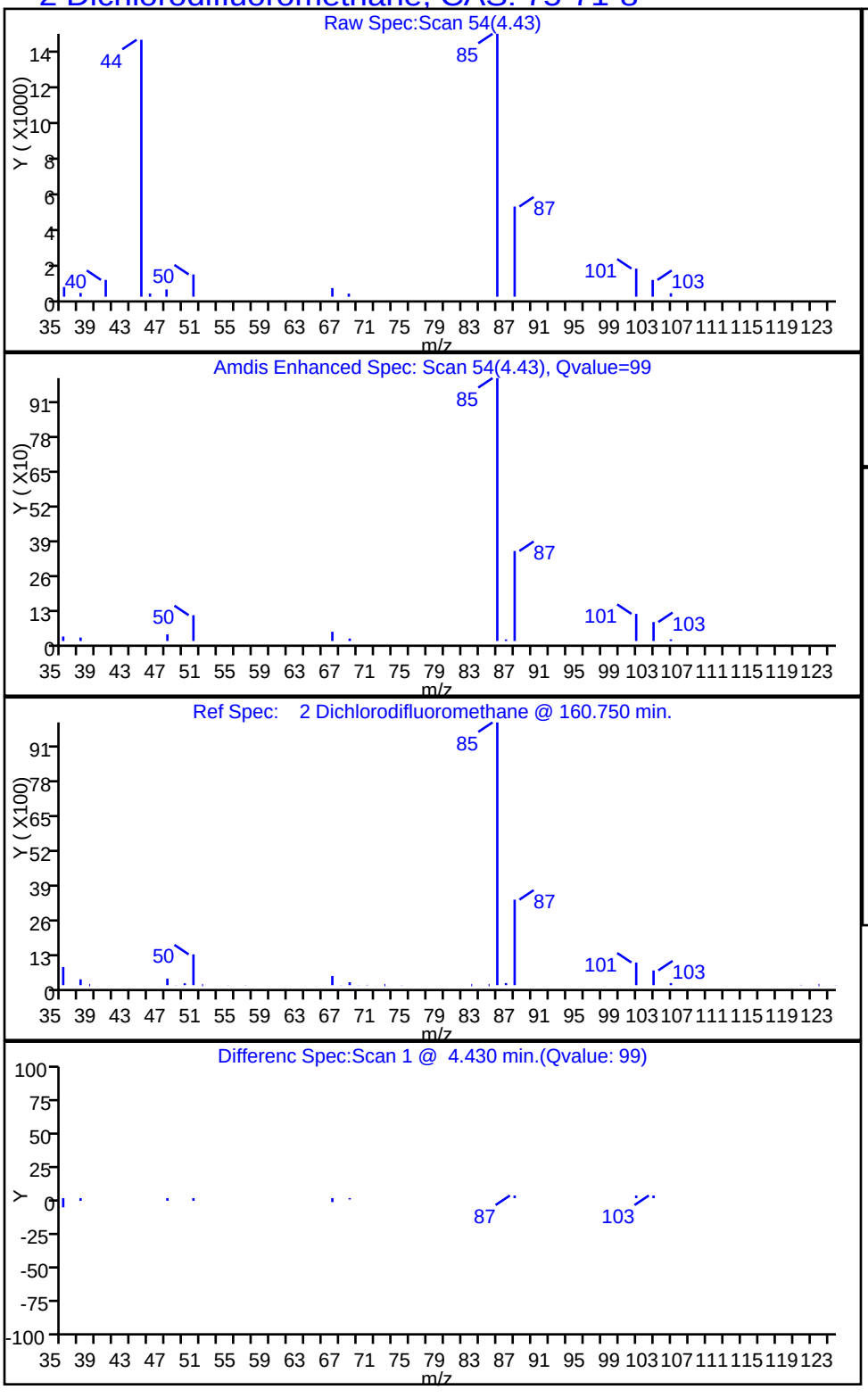


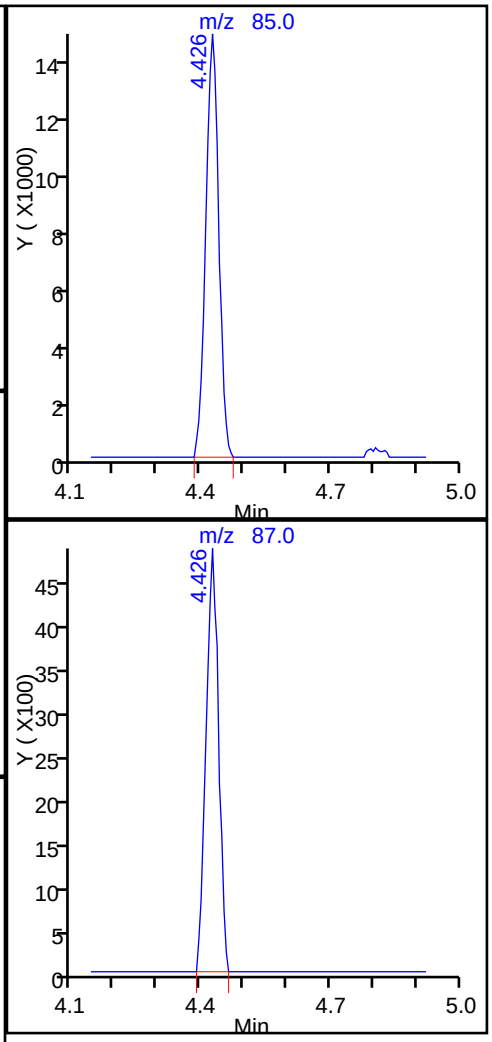
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8





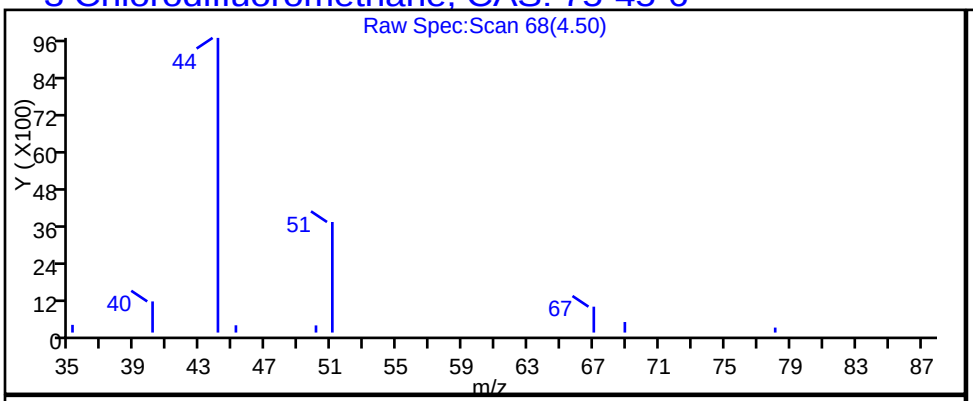
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

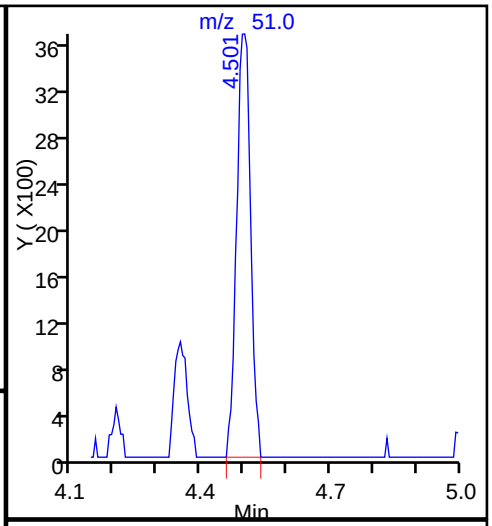
TestAmerica Burlington

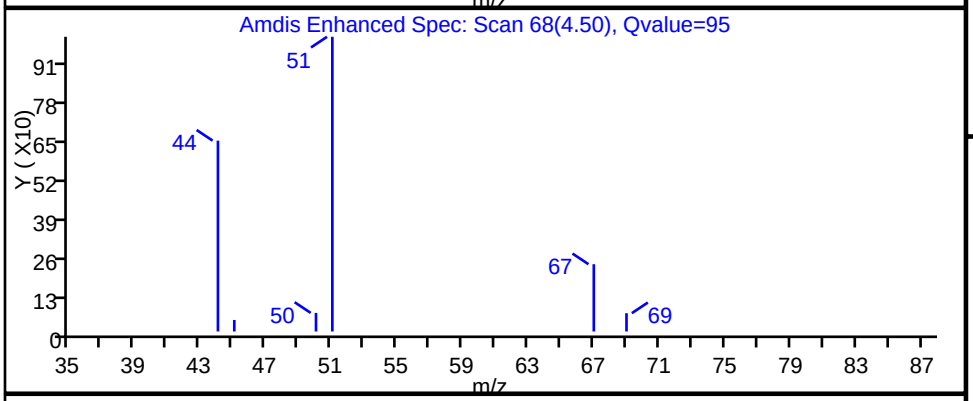
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

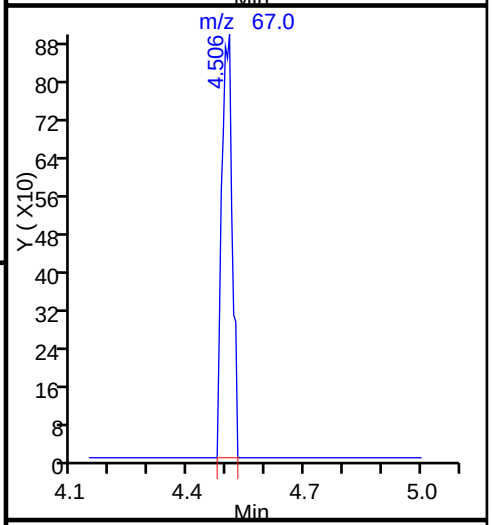
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

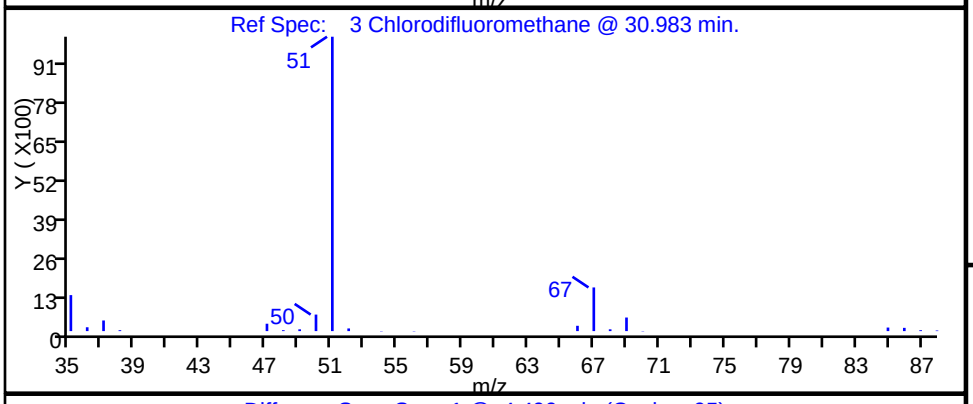
3 Chlorodifluoromethane, CAS: 75-45-6

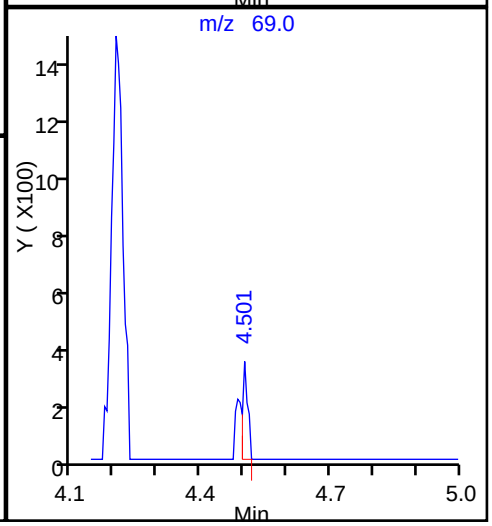


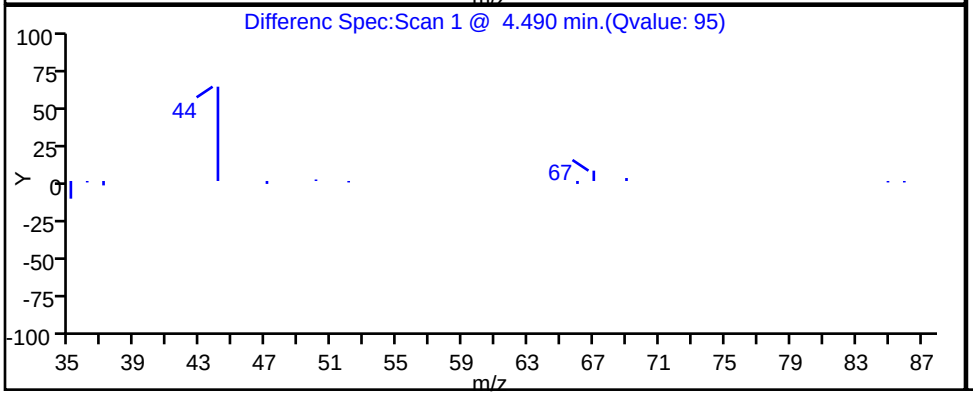










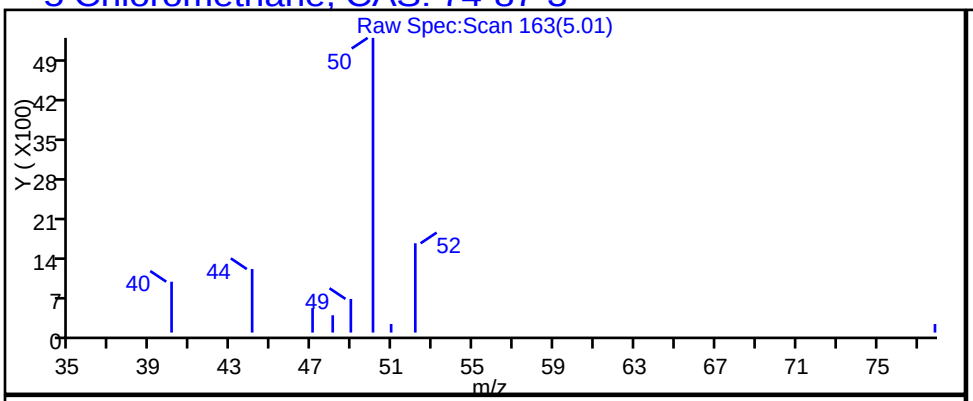


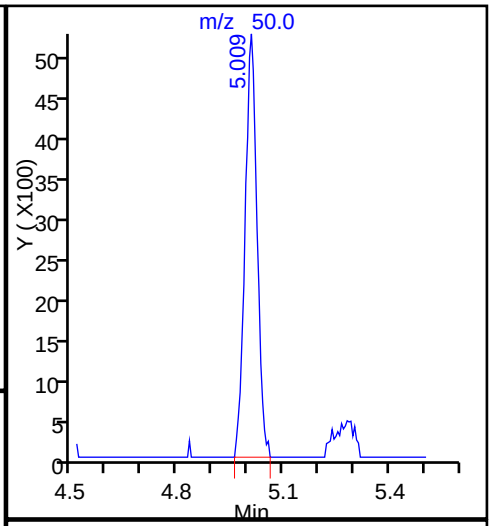
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

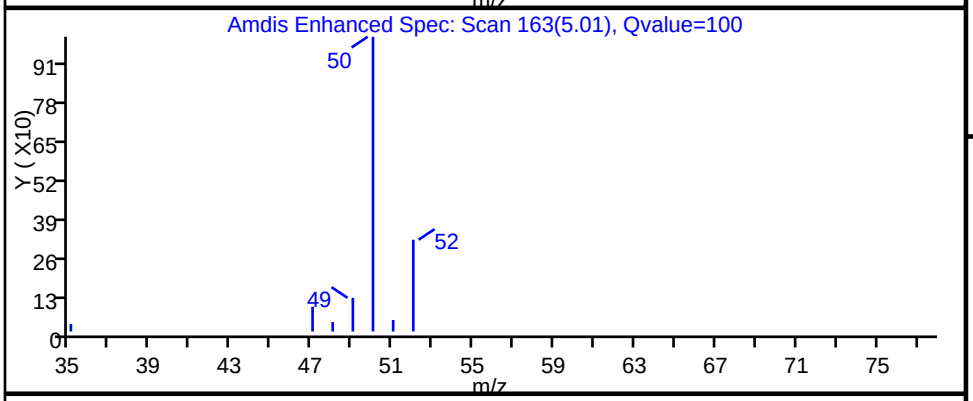
TestAmerica Burlington

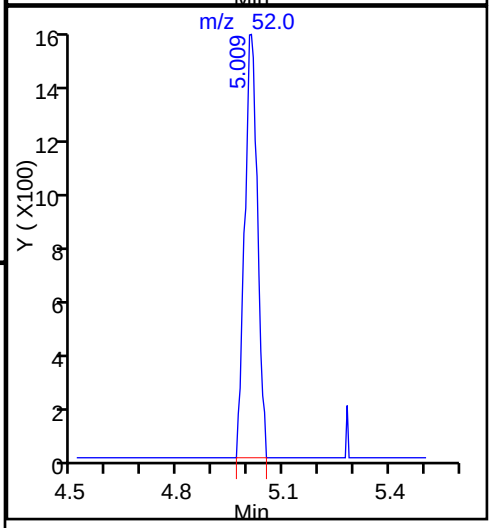
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

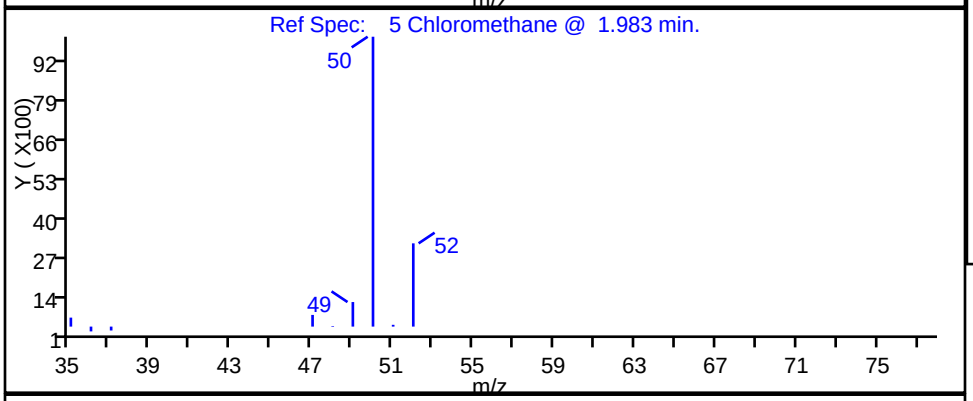
5 Chloromethane, CAS: 74-87-3

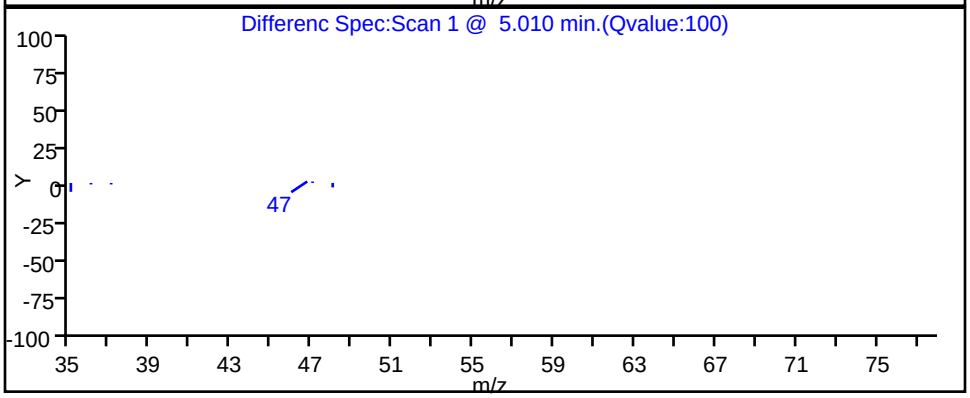












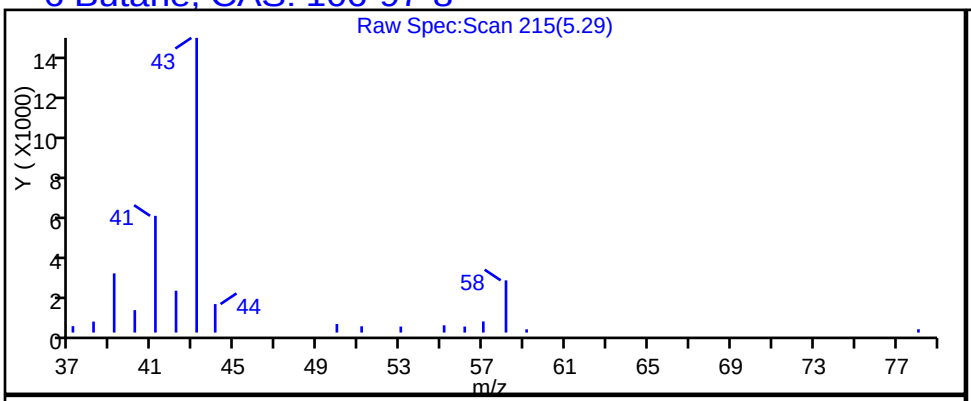
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

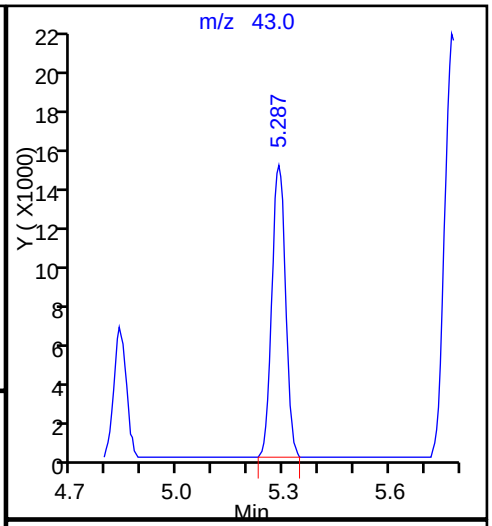
TestAmerica Burlington

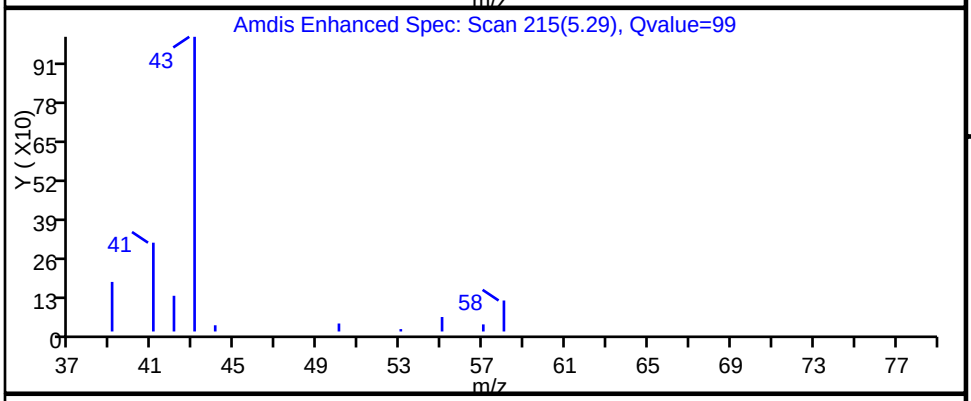
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

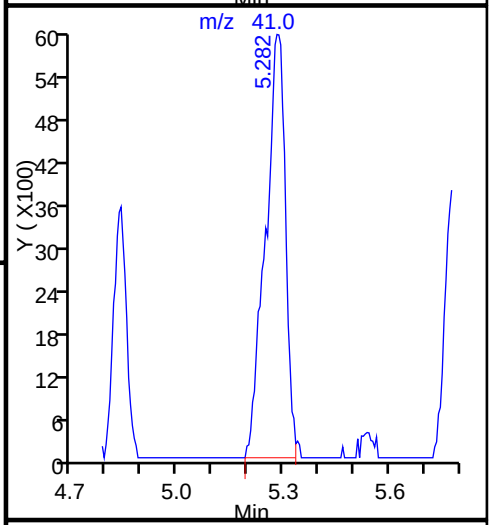
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8
Client ID:	FR-IA04-092315		
Operator ID:	pad	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

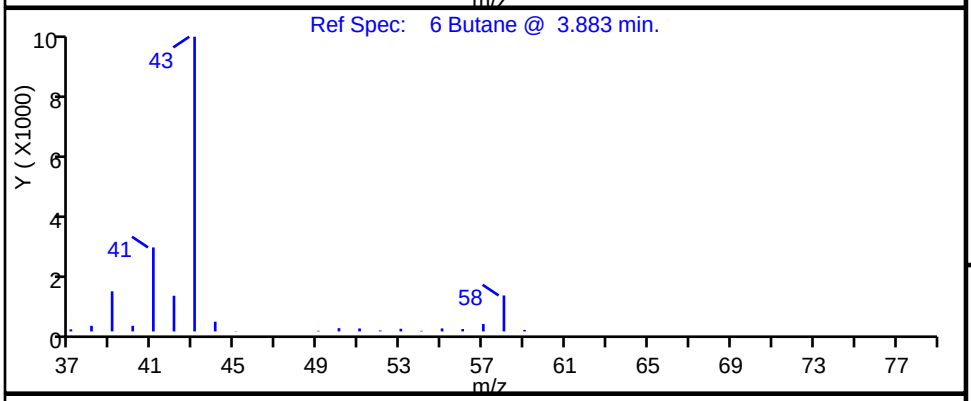
6 Butane, CAS: 106-97-8

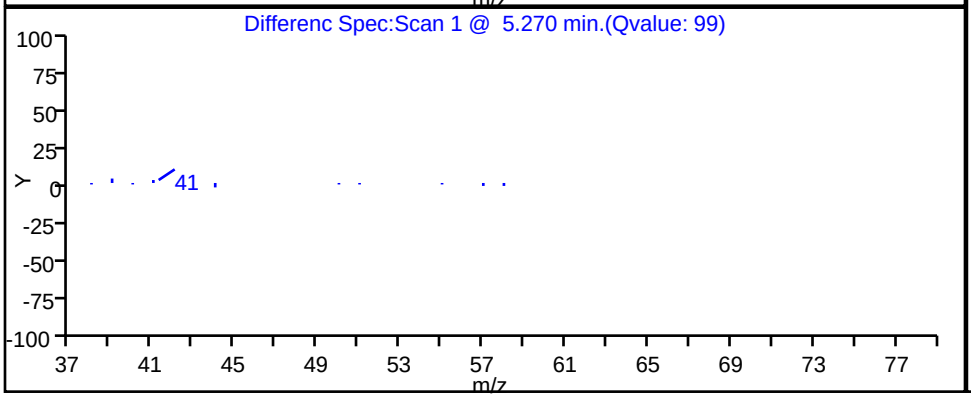


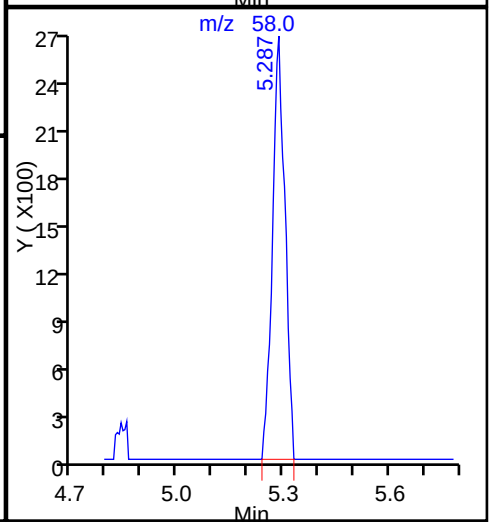












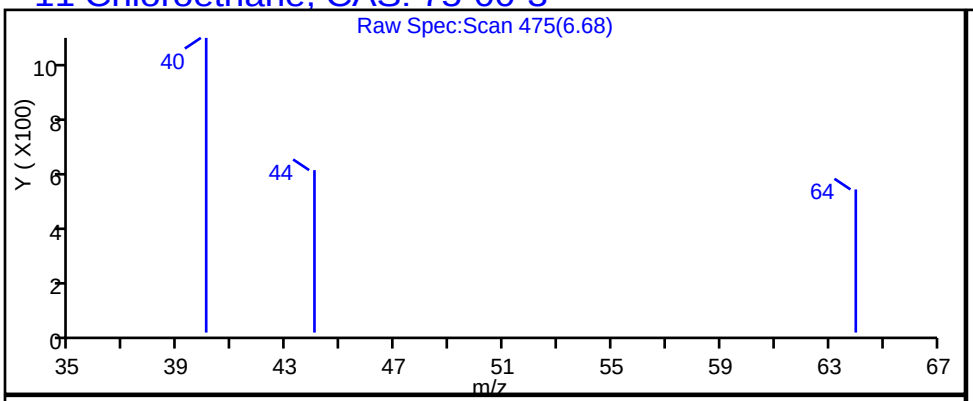
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

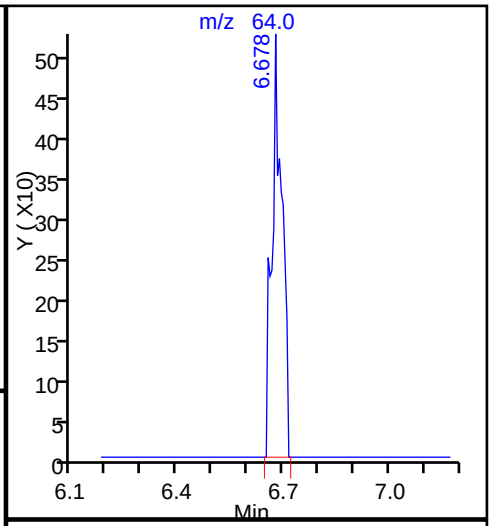
TestAmerica Burlington

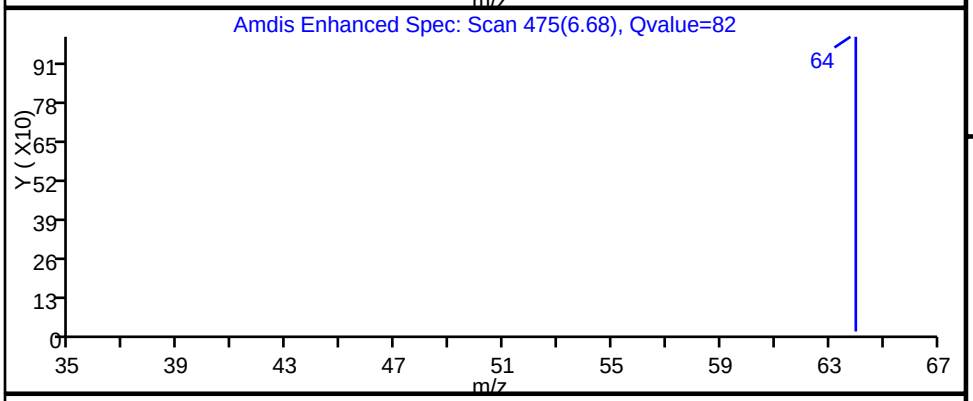
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

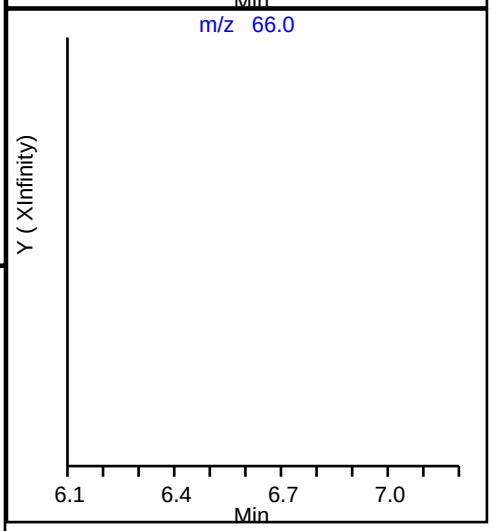
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

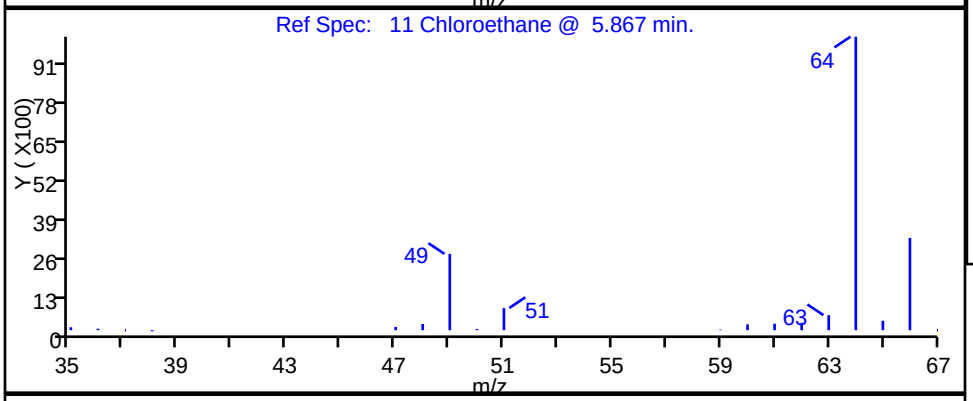
11 Chloroethane, CAS: 75-00-3

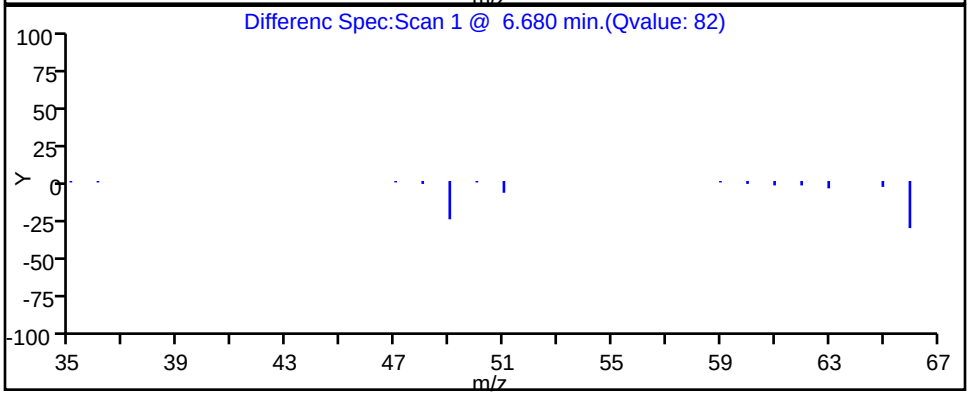












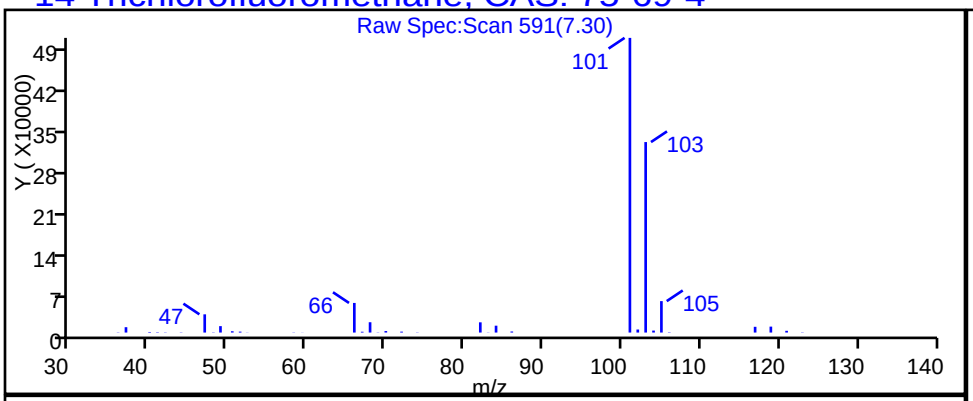
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

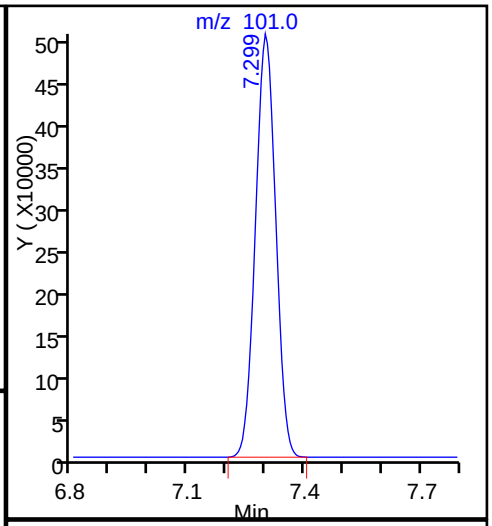
TestAmerica Burlington

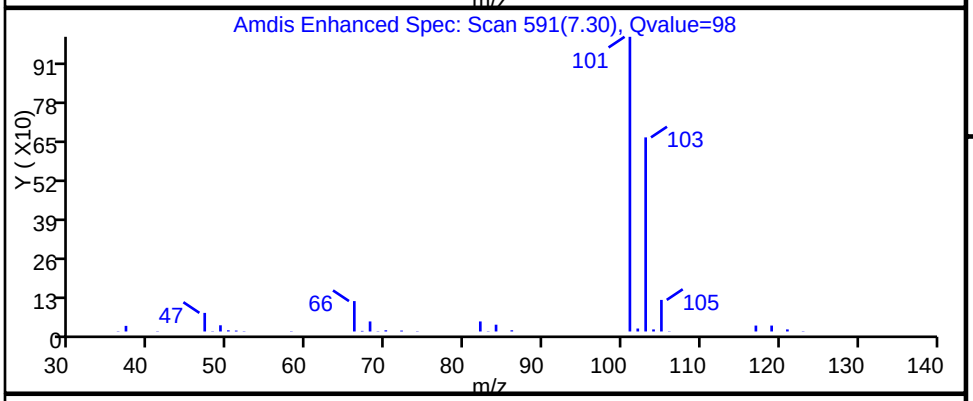
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

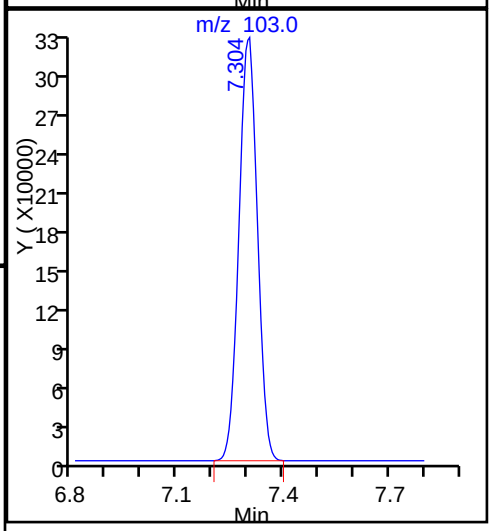
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

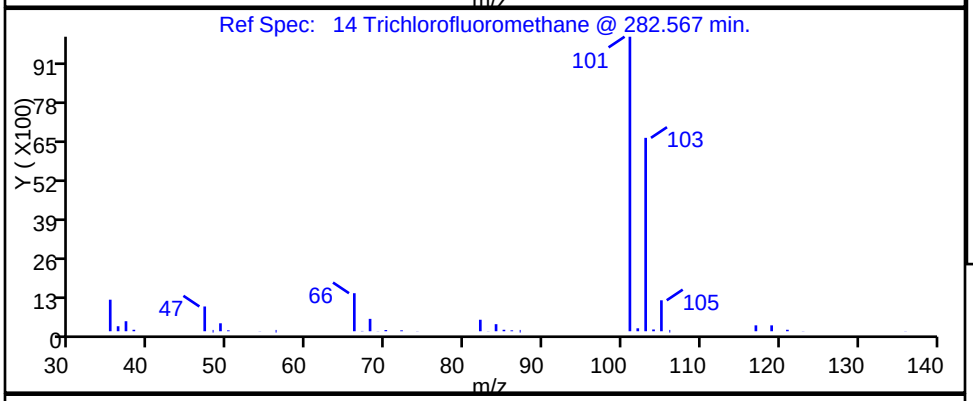
14 Trichlorofluoromethane, CAS: 75-69-4

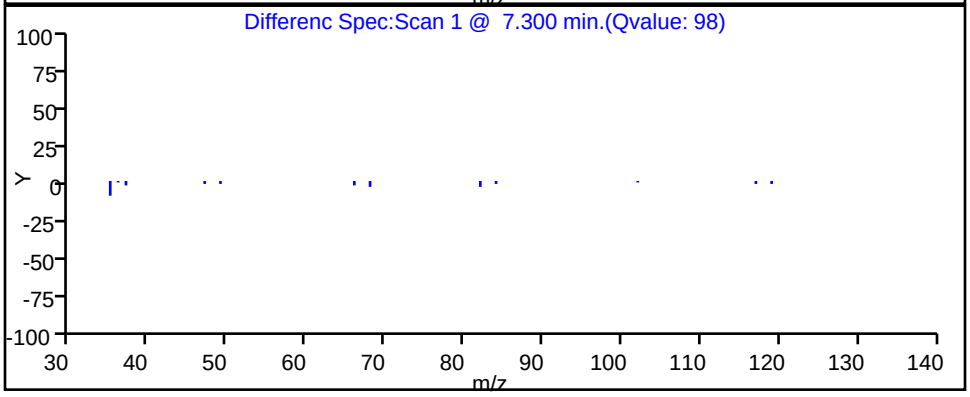










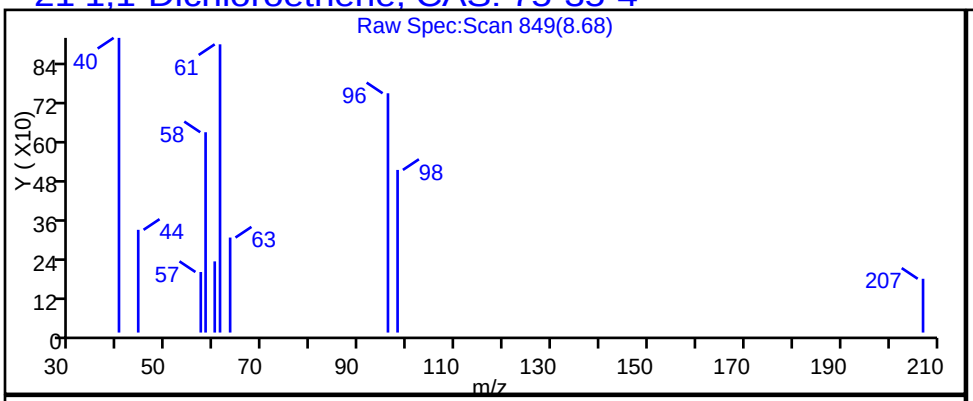


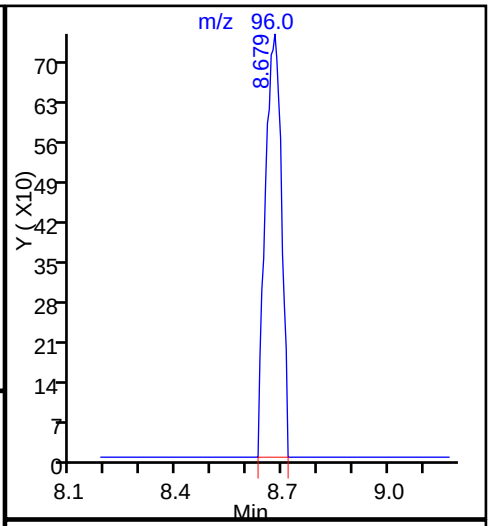
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

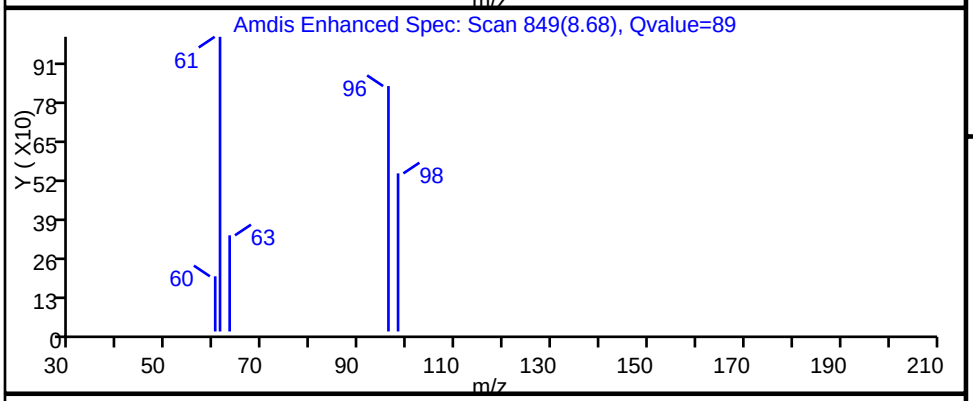
TestAmerica Burlington

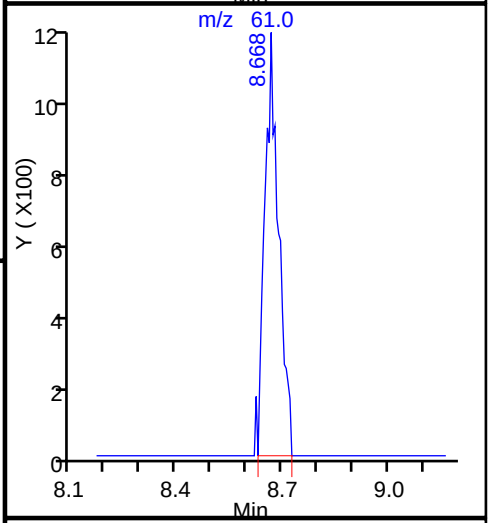
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

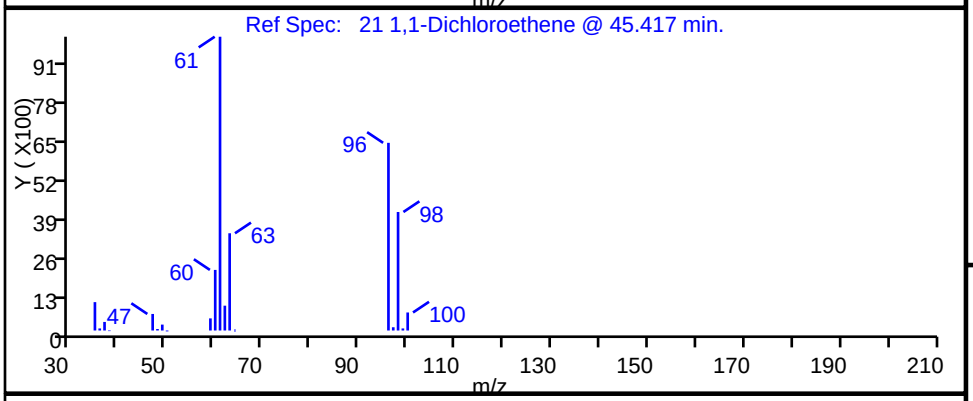
21 1,1-Dichloroethene, CAS: 75-35-4

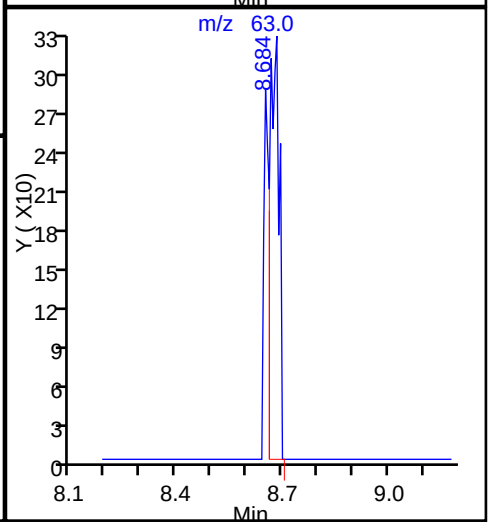


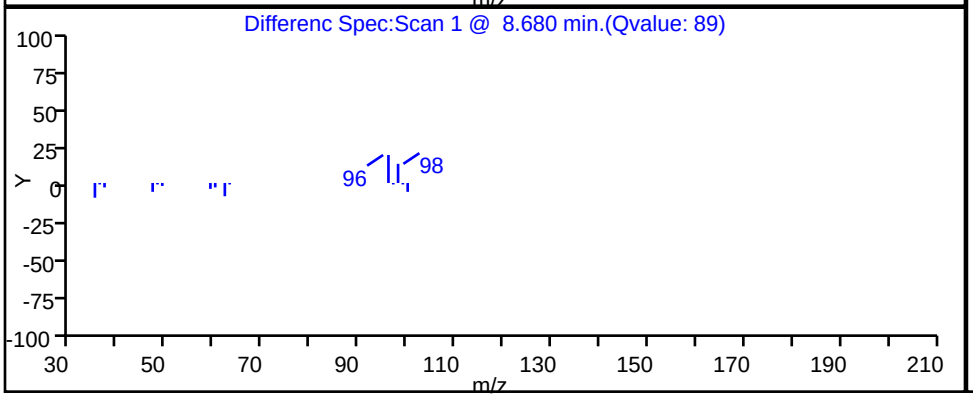












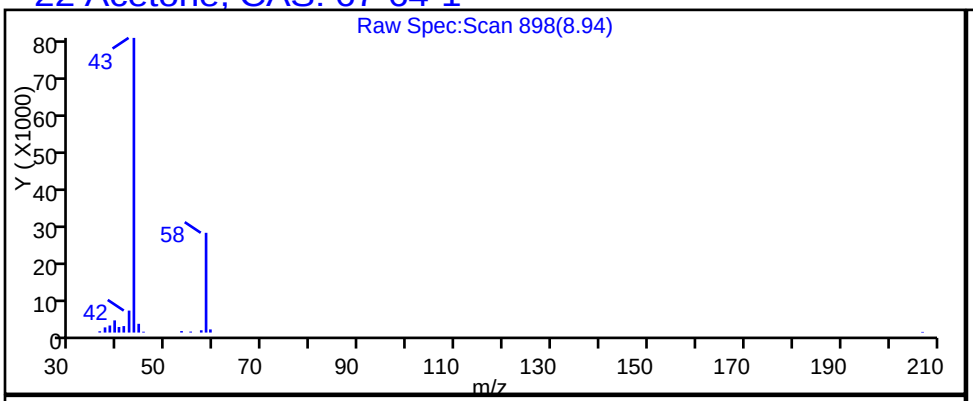
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

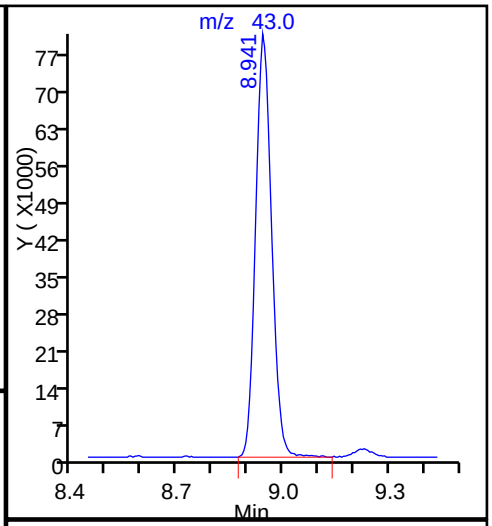
TestAmerica Burlington

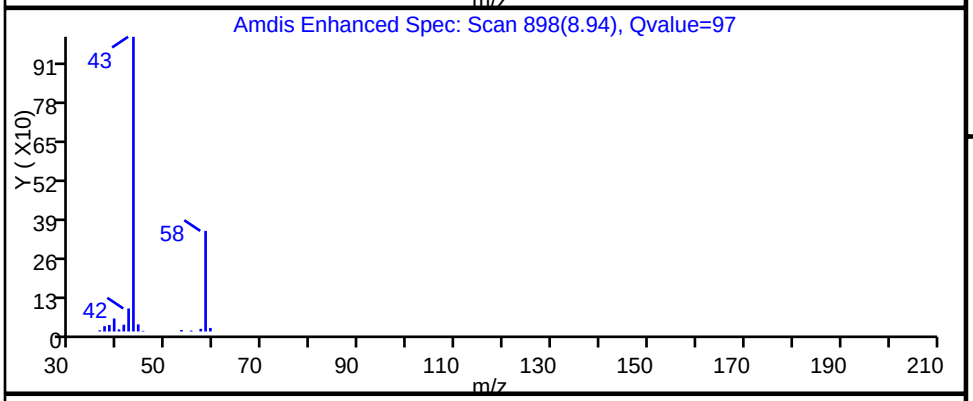
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

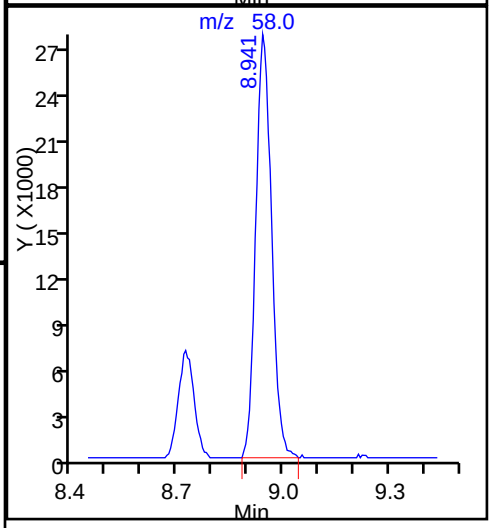
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

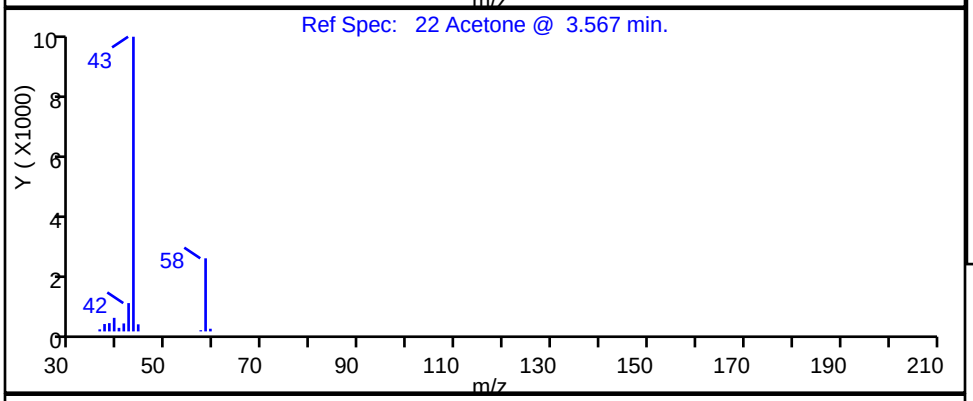
22 Acetone, CAS: 67-64-1

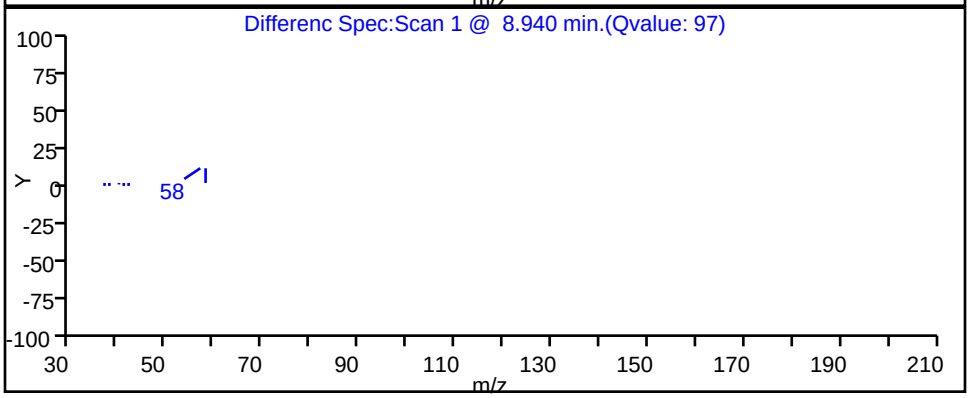












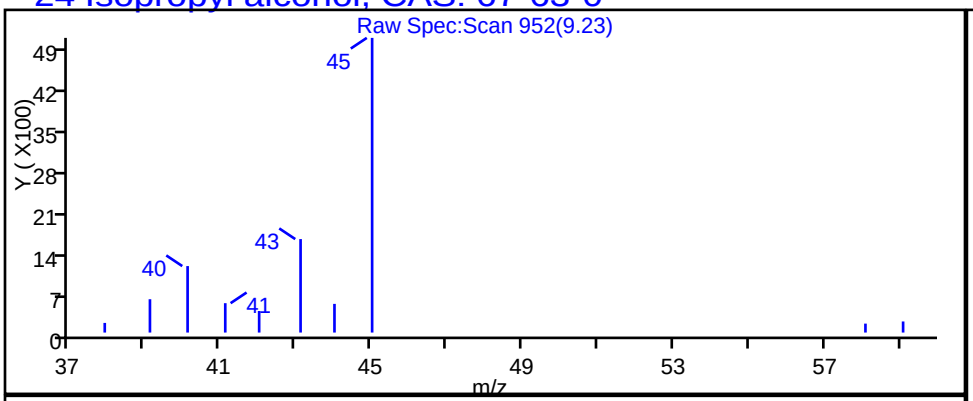
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

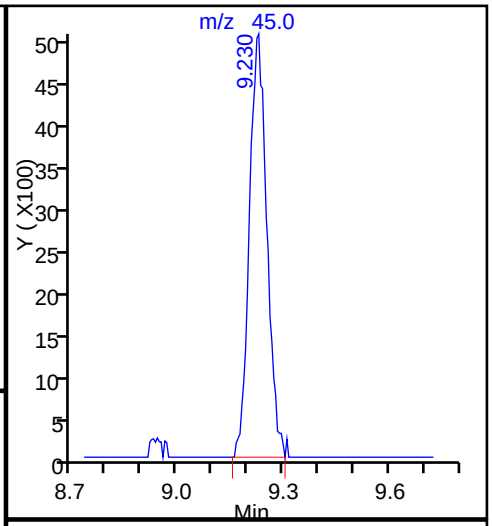
TestAmerica Burlington

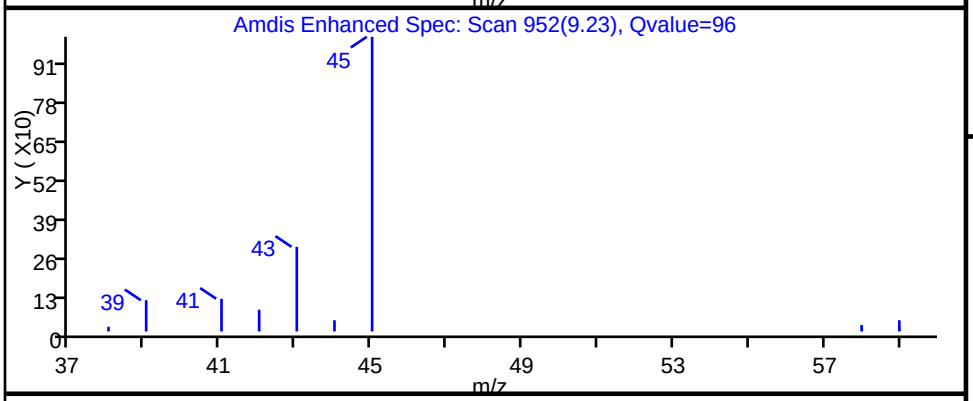
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

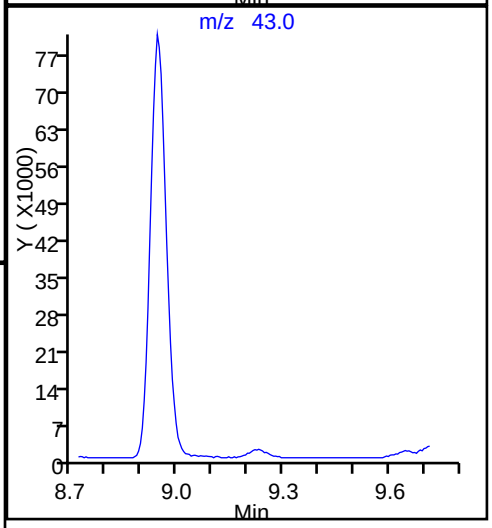
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8
Client ID:	FR-IA04-092315		
Operator ID:	pad	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

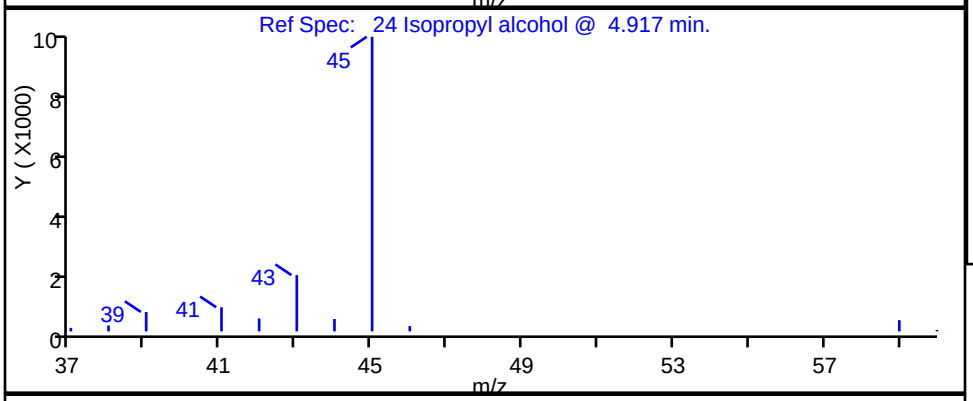
24 Isopropyl alcohol, CAS: 67-63-0

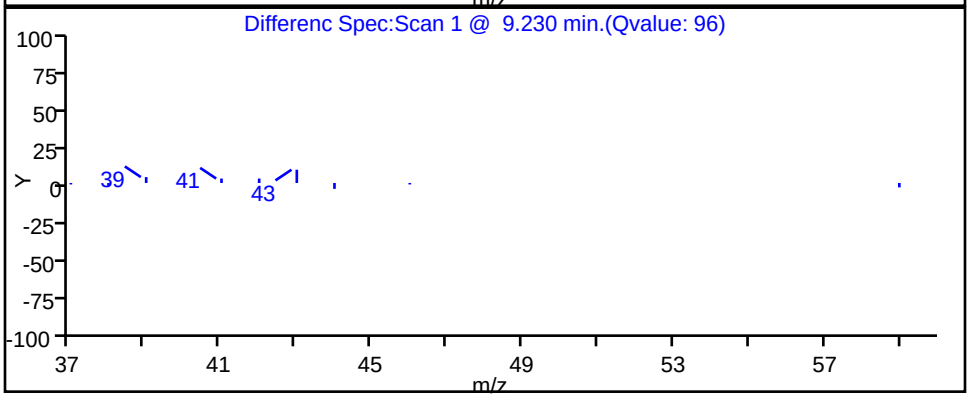












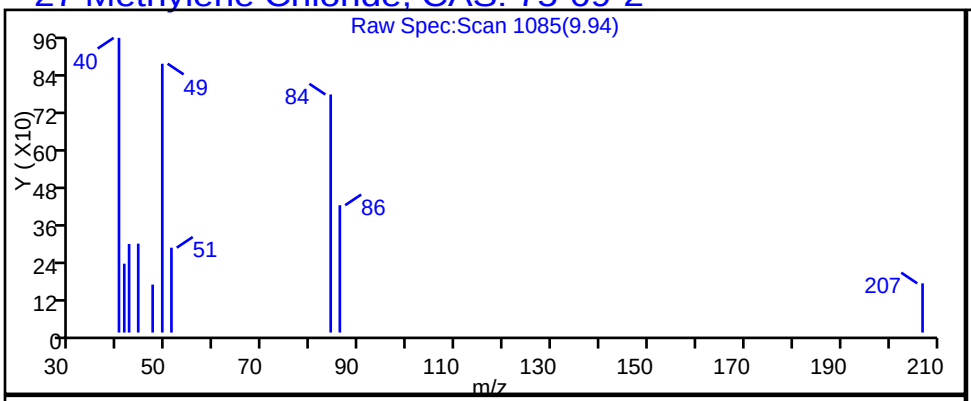
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

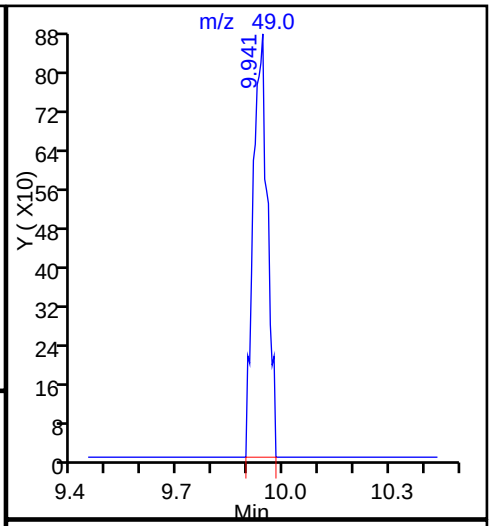
TestAmerica Burlington

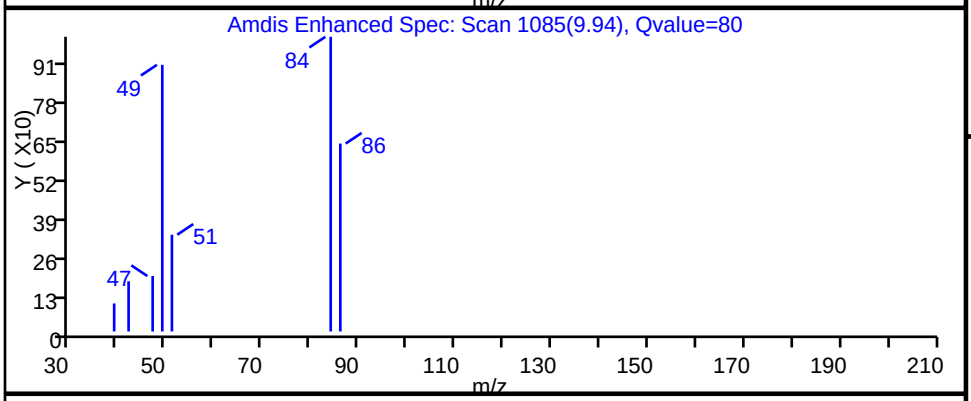
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

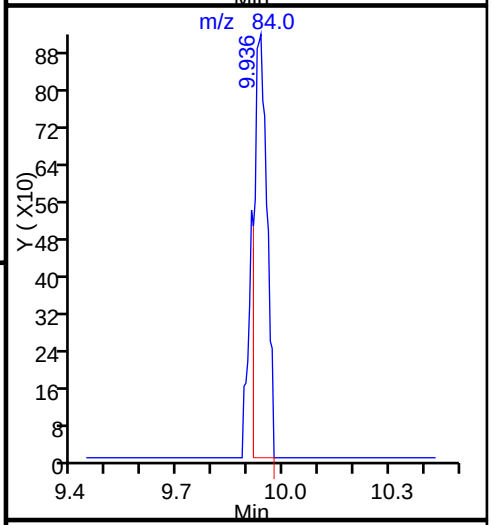
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

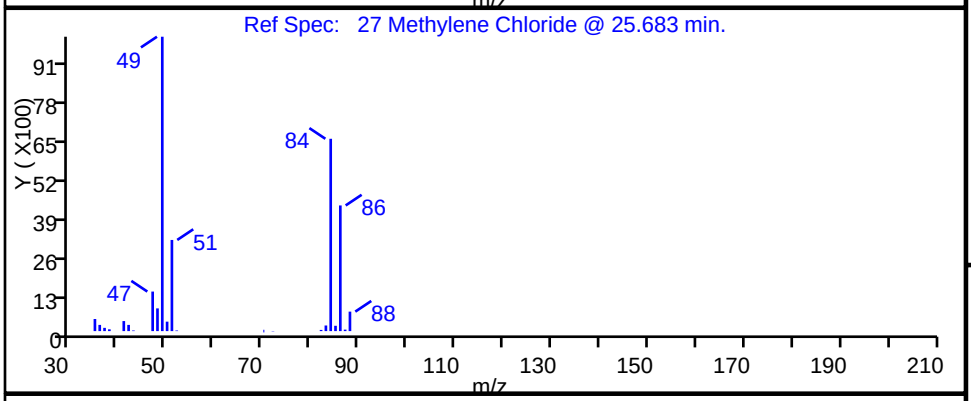
27 Methylene Chloride, CAS: 75-09-2

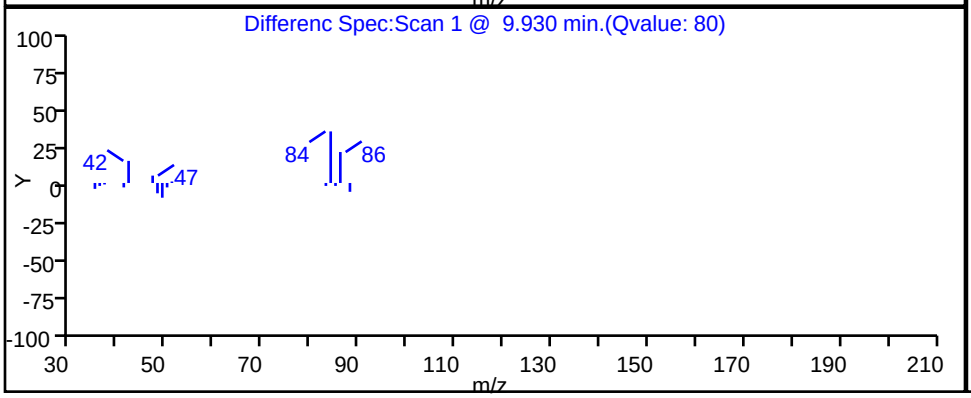


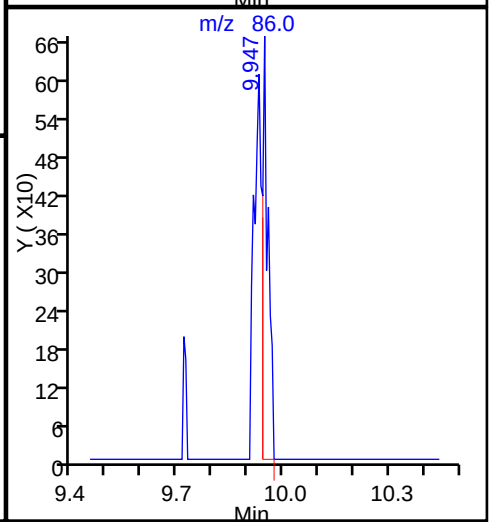












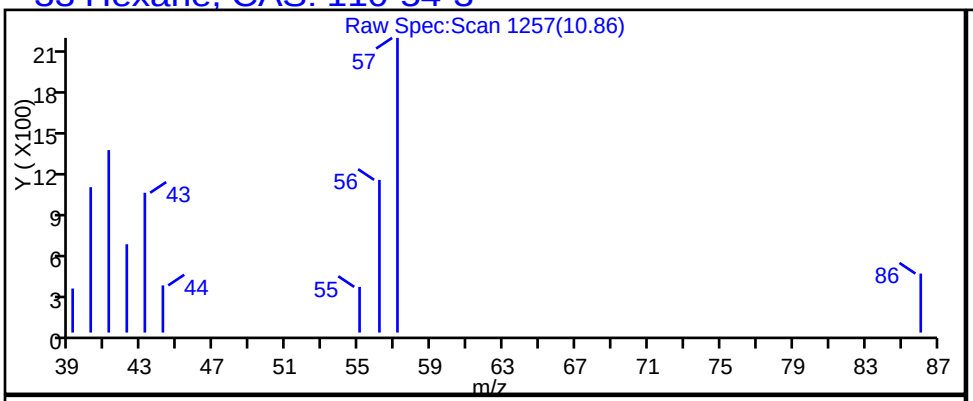
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

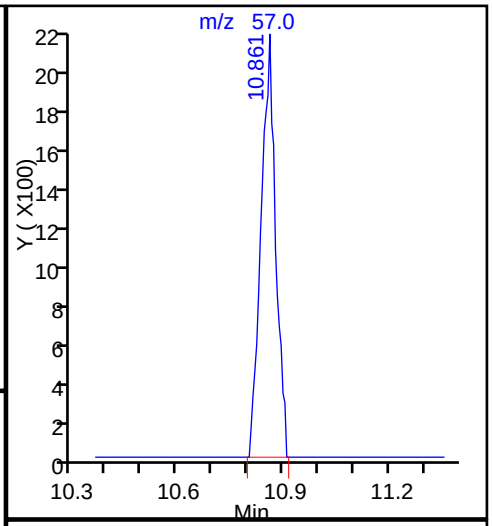
TestAmerica Burlington

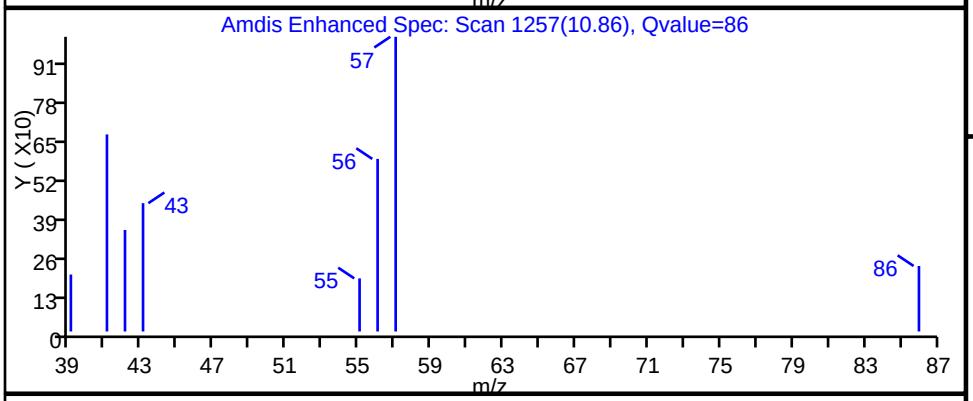
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

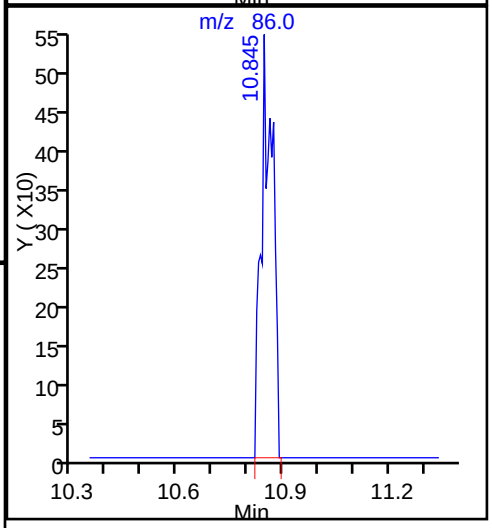
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

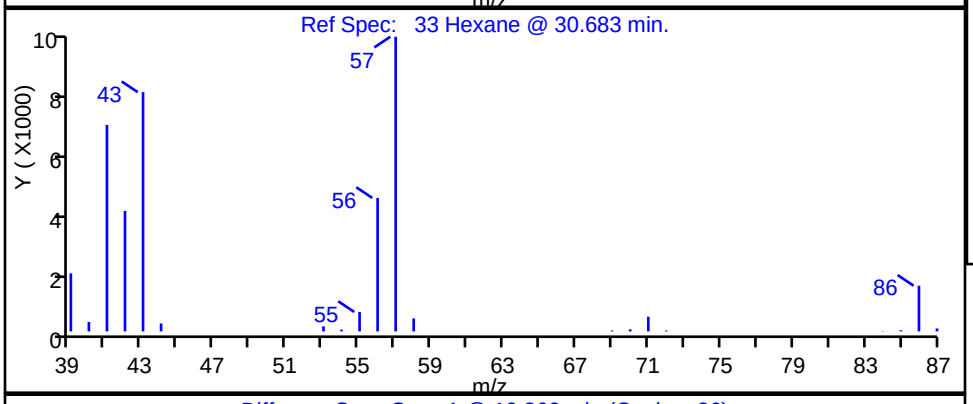
33 Hexane, CAS: 110-54-3

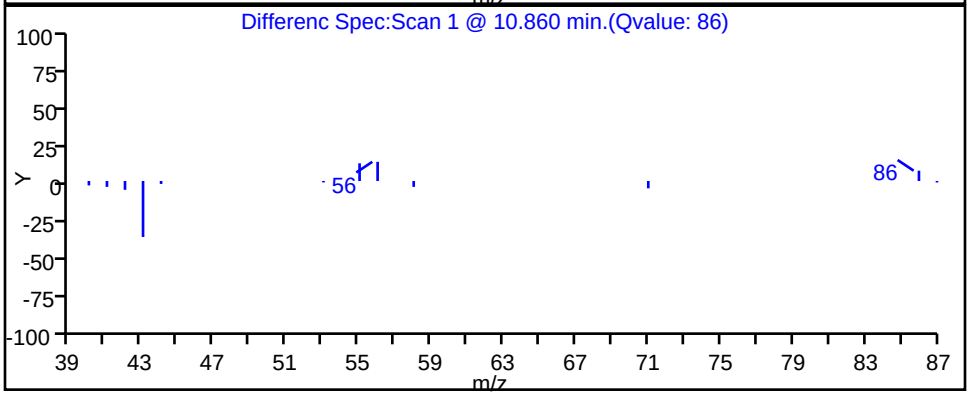












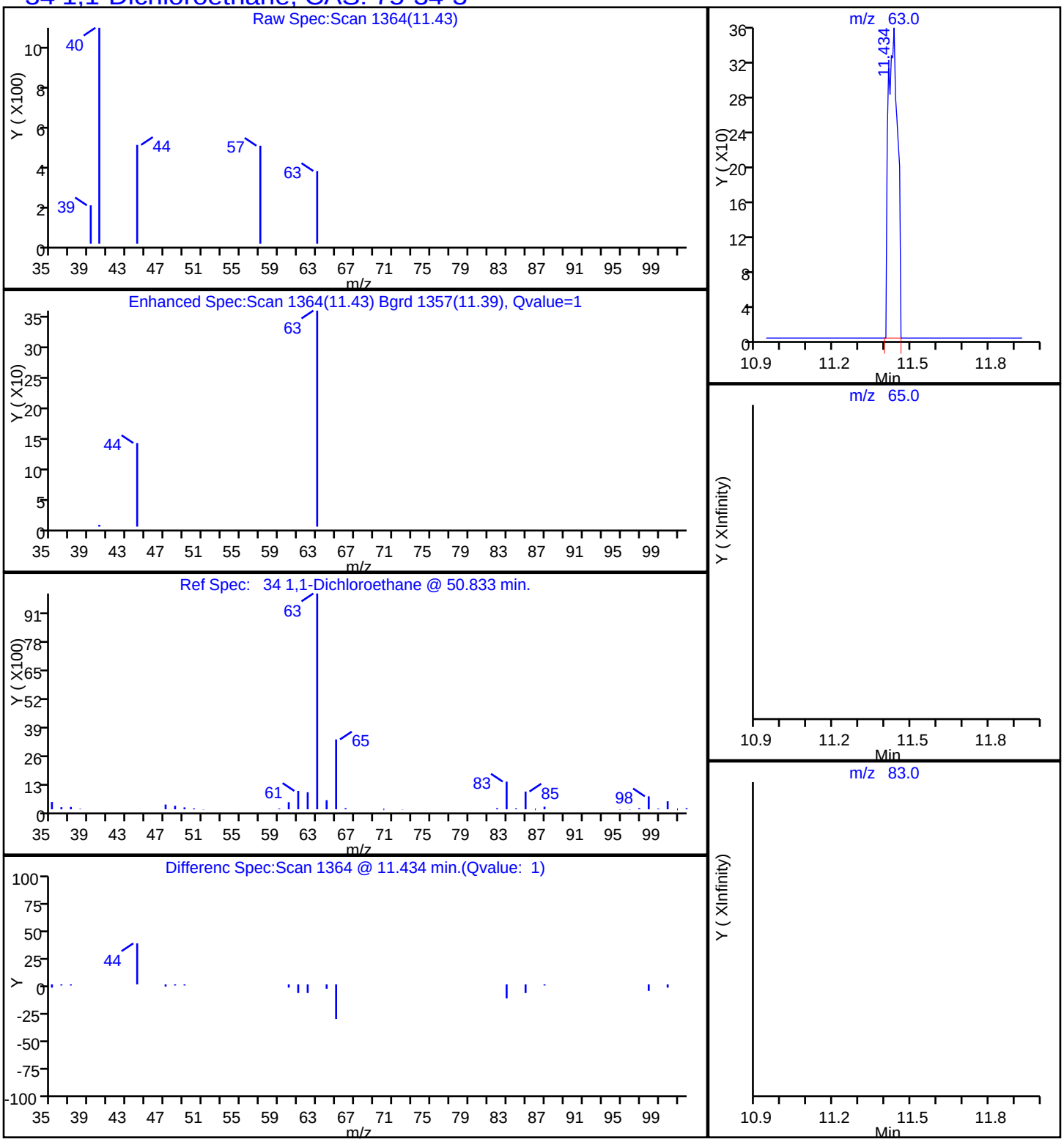
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

34 1,1-Dichloroethane, CAS: 75-34-3

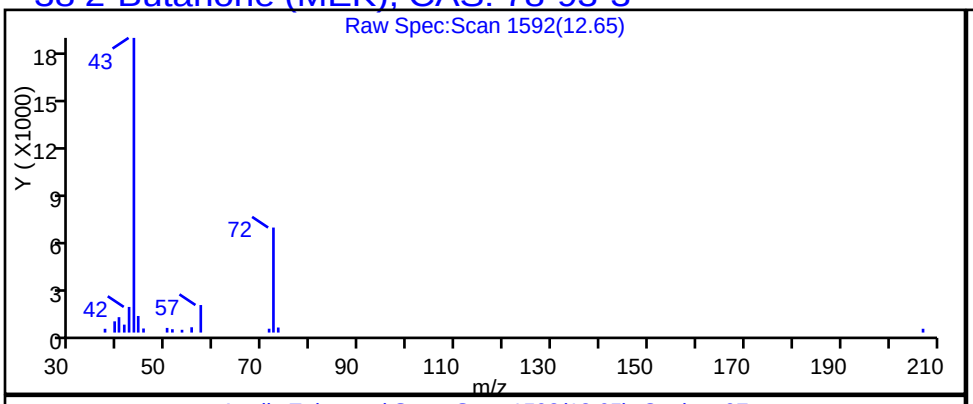


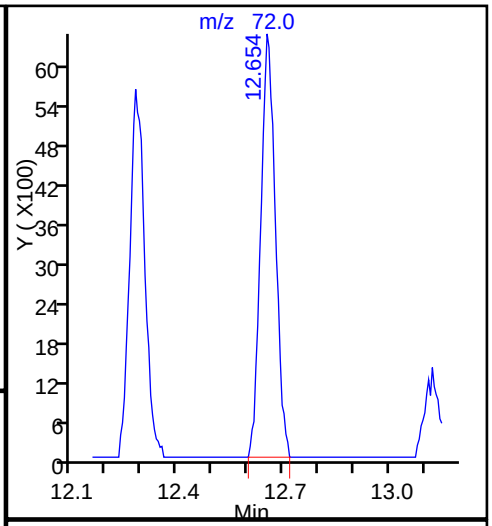
Report Date: 30-Sep-2015 14:17:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

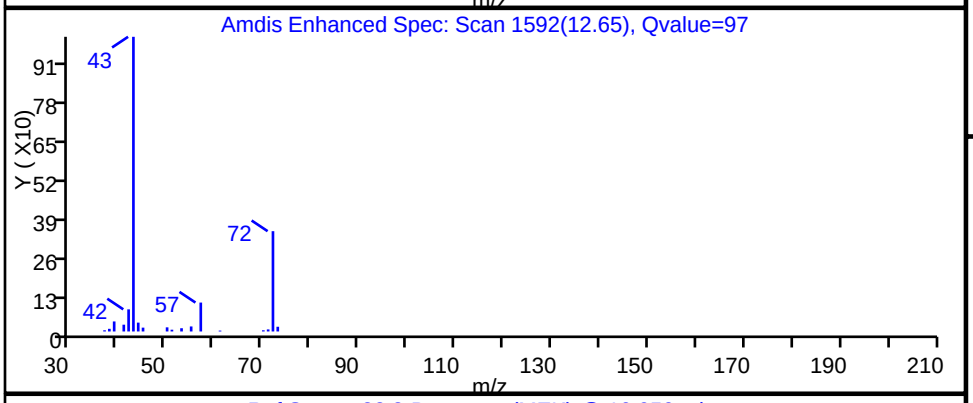
TestAmerica Burlington

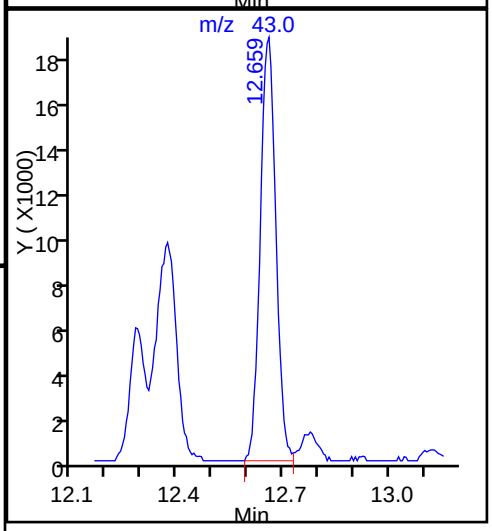
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

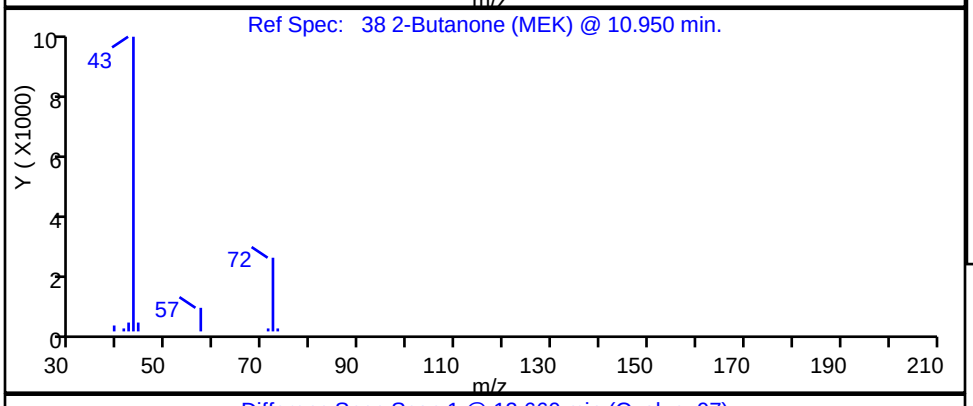
38 2-Butanone (MEK), CAS: 78-93-3

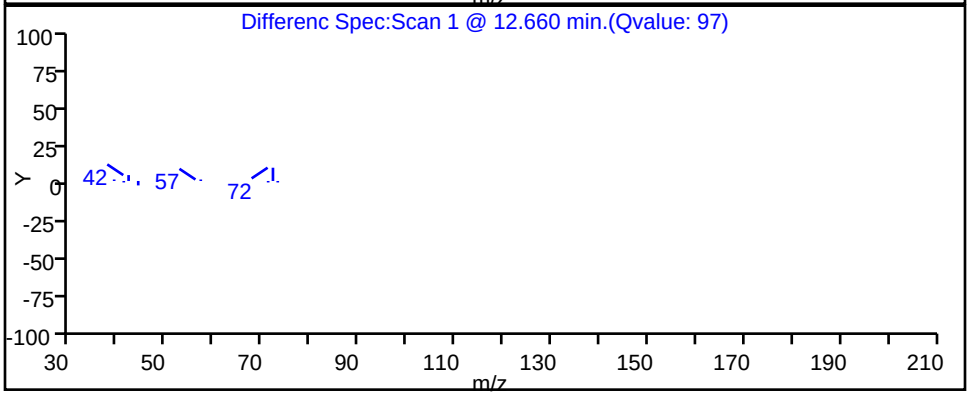










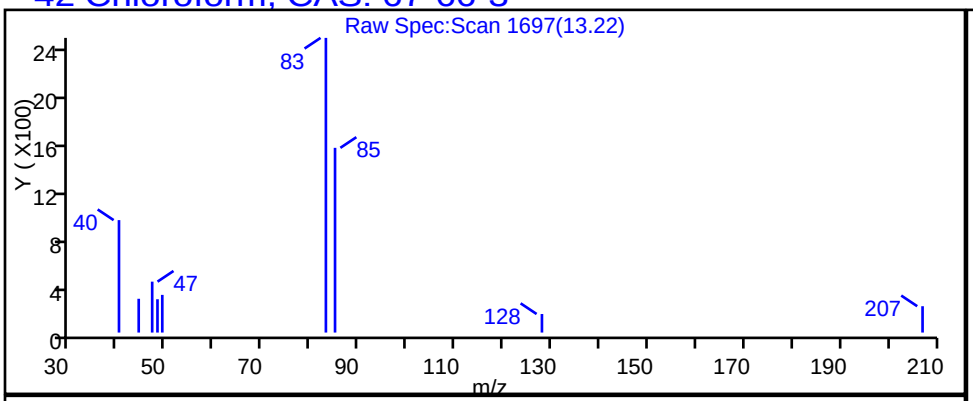


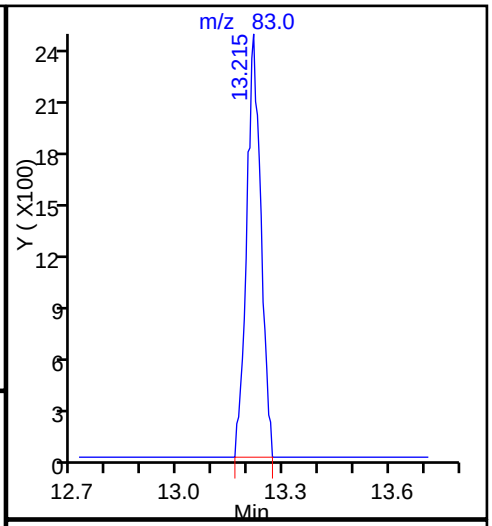
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

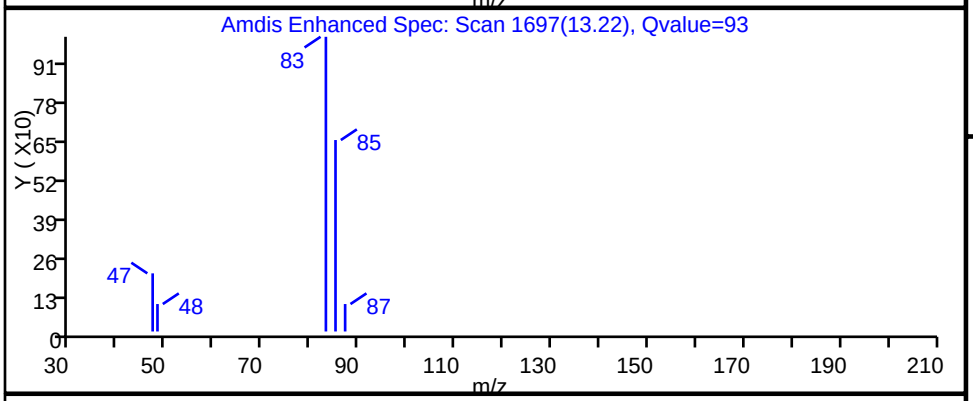
TestAmerica Burlington

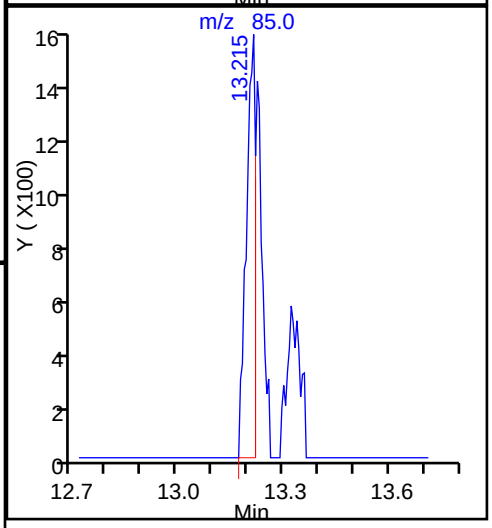
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

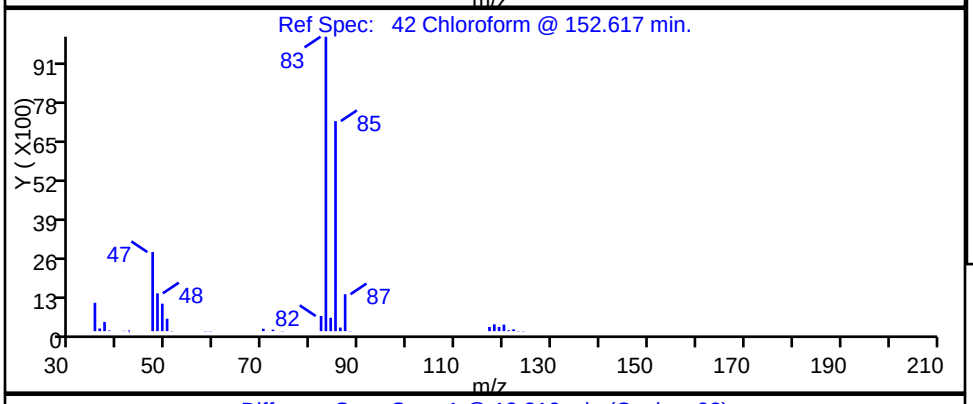
42 Chloroform, CAS: 67-66-3

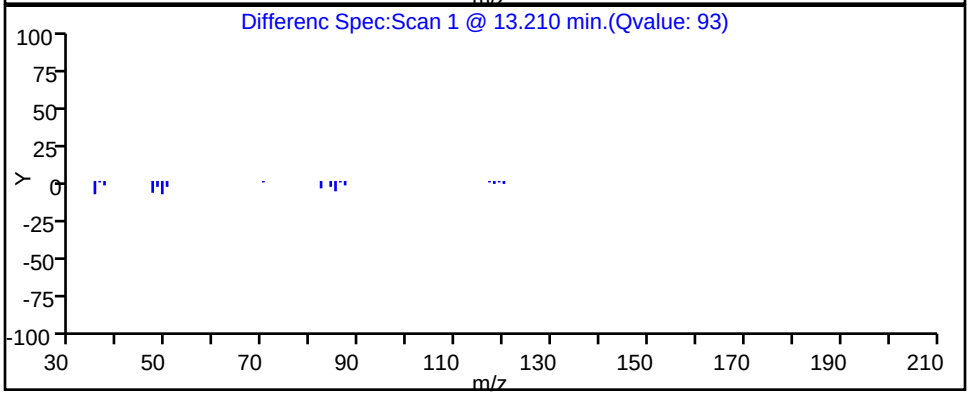












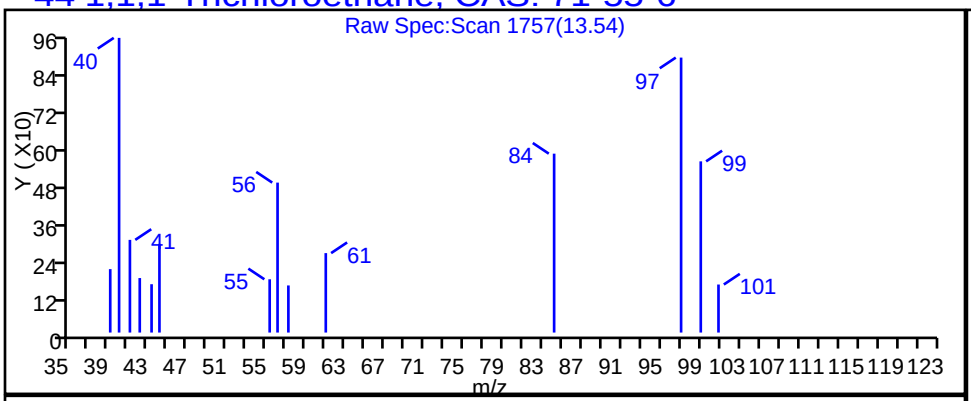
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

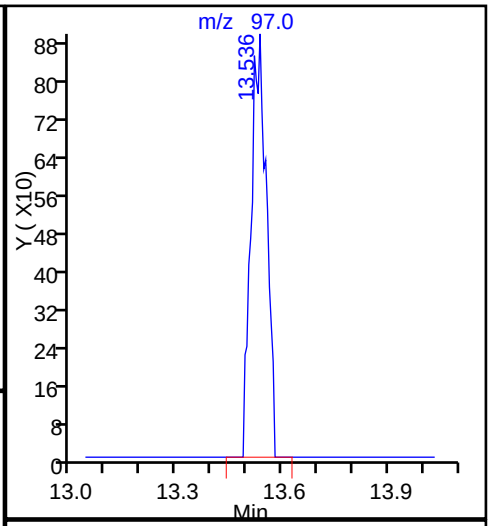
TestAmerica Burlington

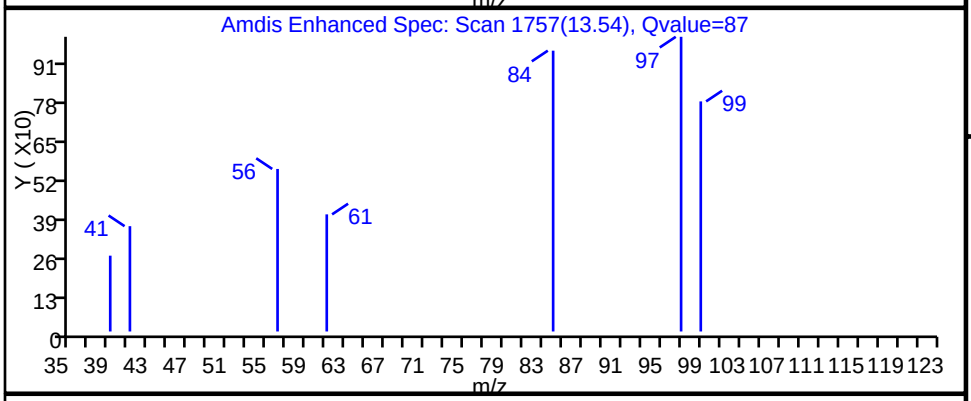
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

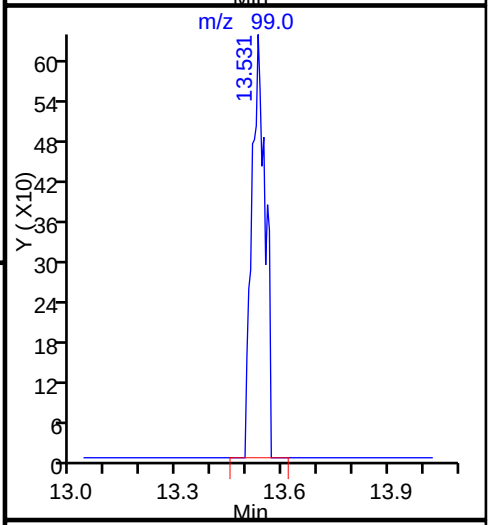
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

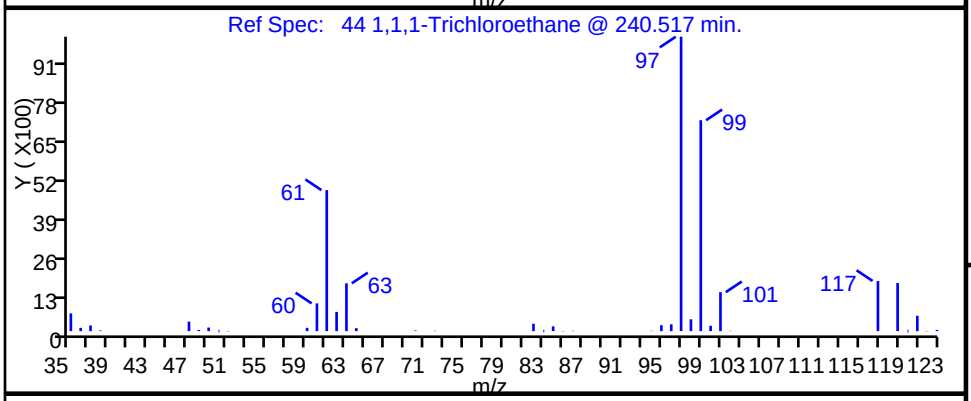
44 1,1,1-Trichloroethane, CAS: 71-55-6

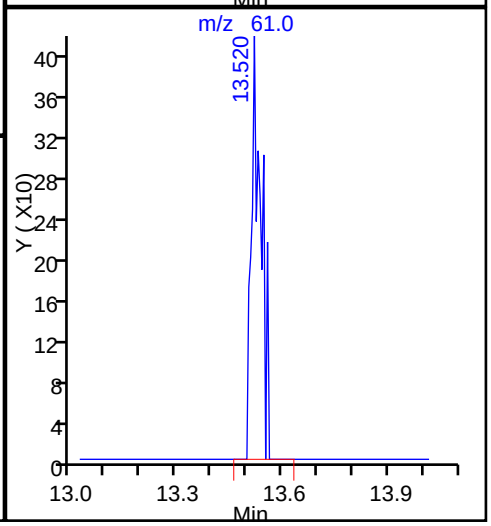


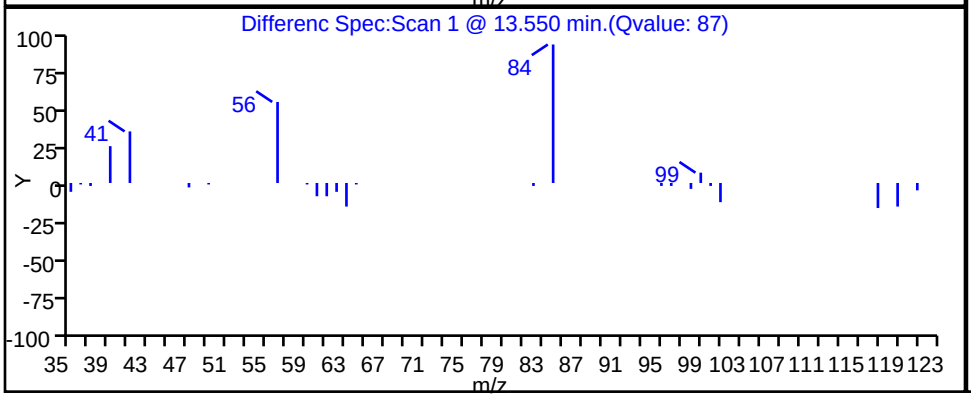












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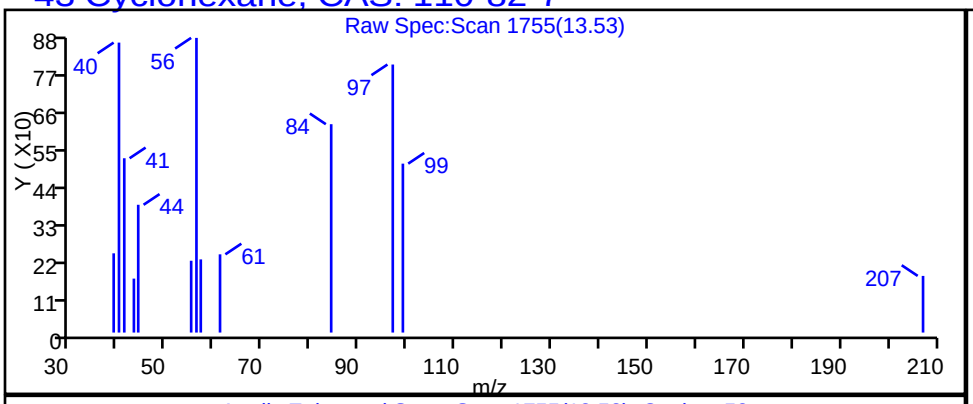
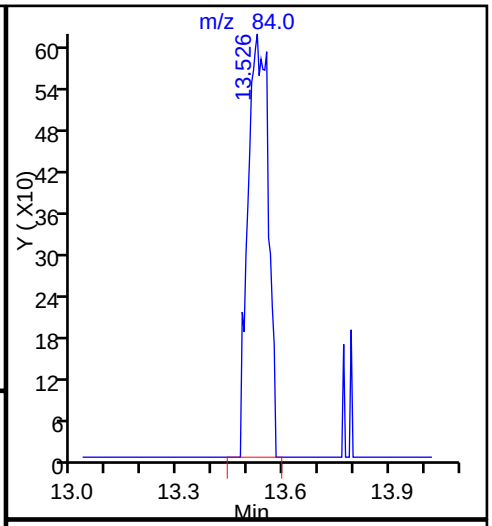
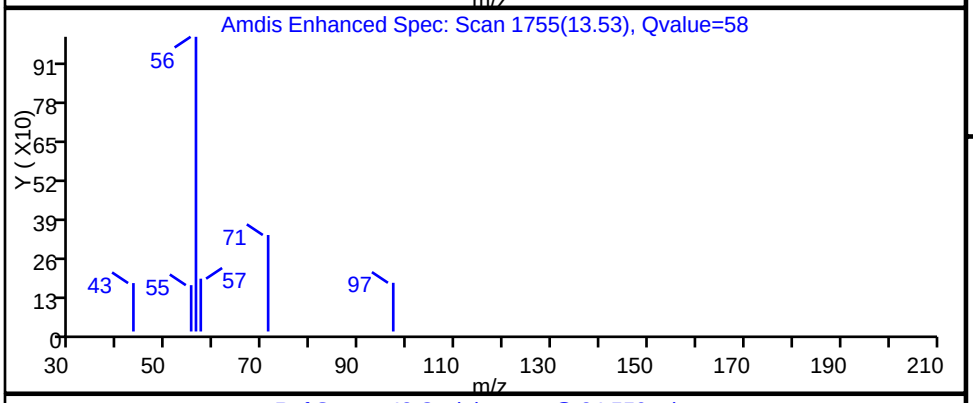
TestAmerica Burlington

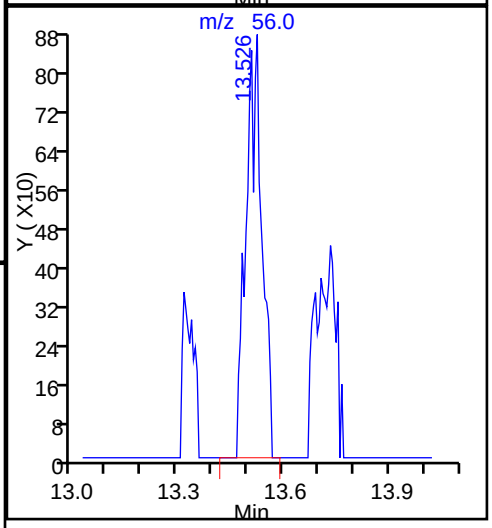
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

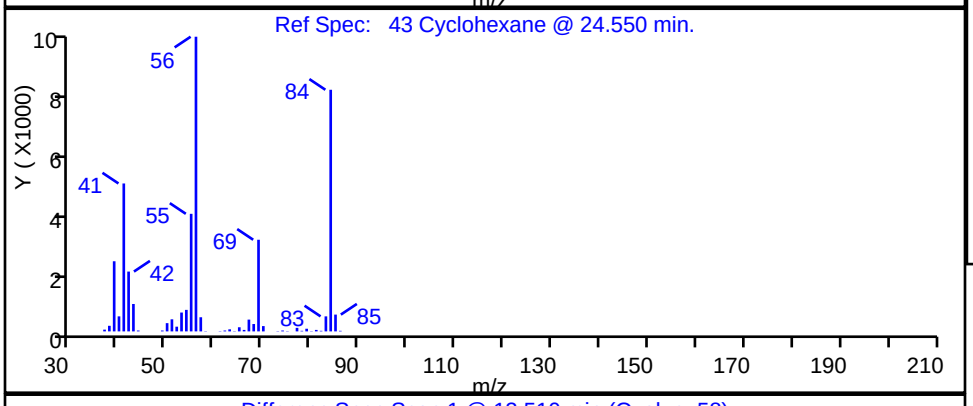
43 Cyclohexane, CAS: 110-82-7

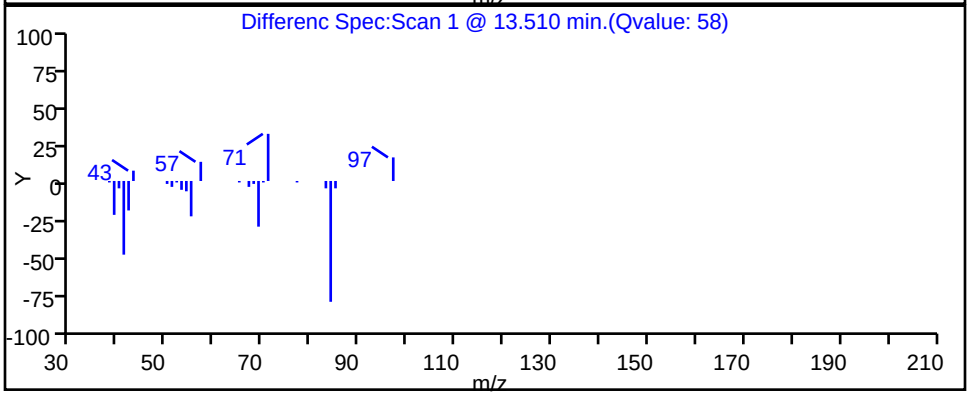












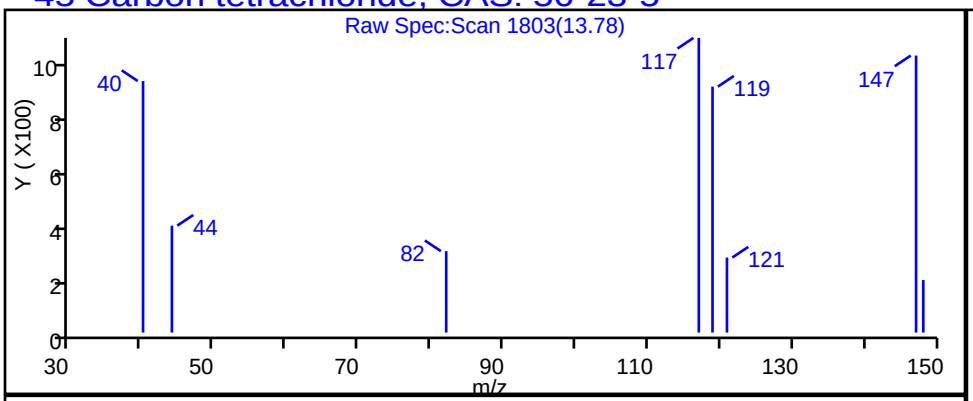
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

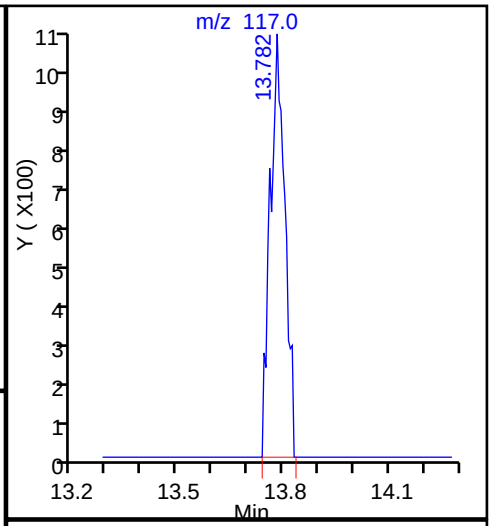
TestAmerica Burlington

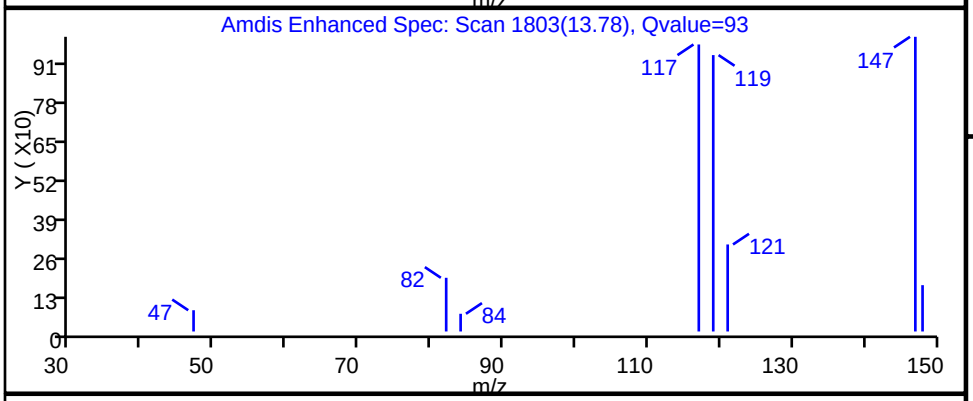
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

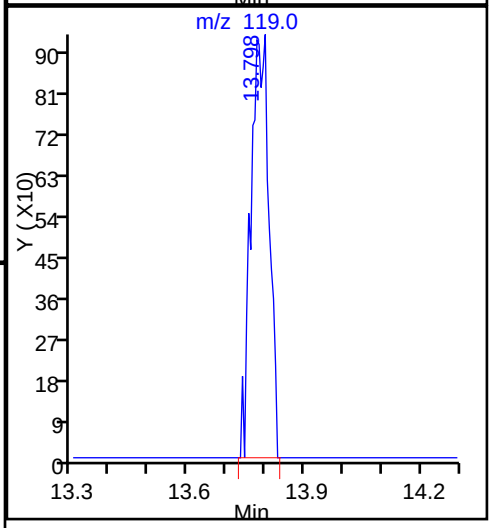
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

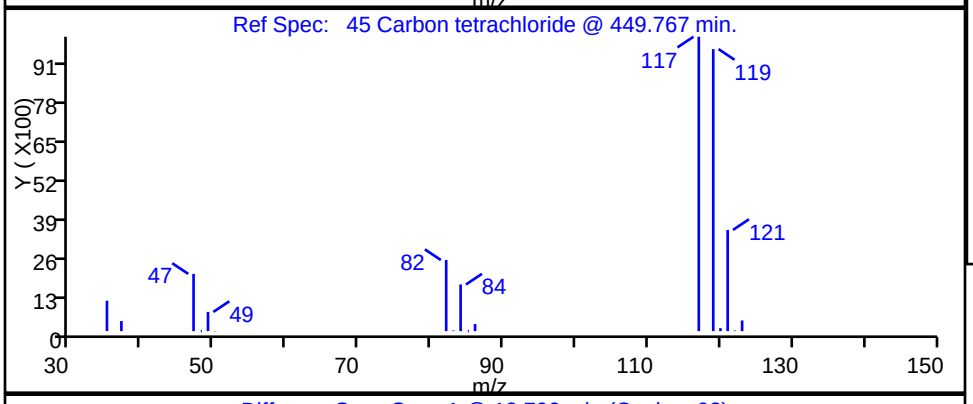
45 Carbon tetrachloride, CAS: 56-23-5

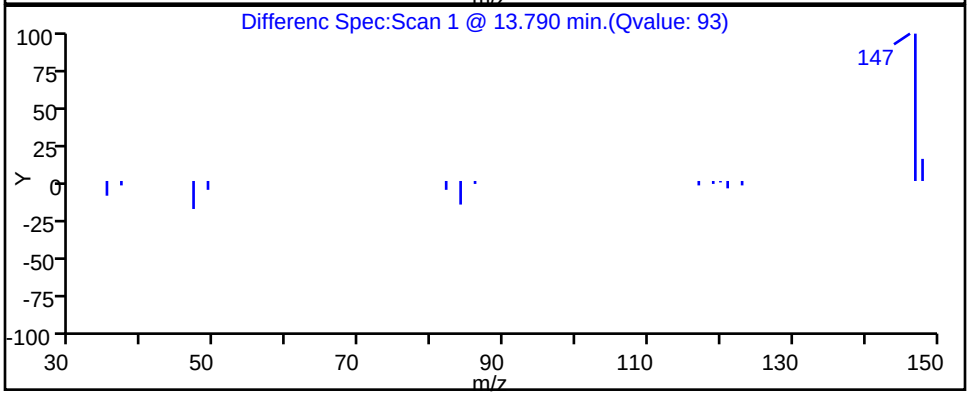












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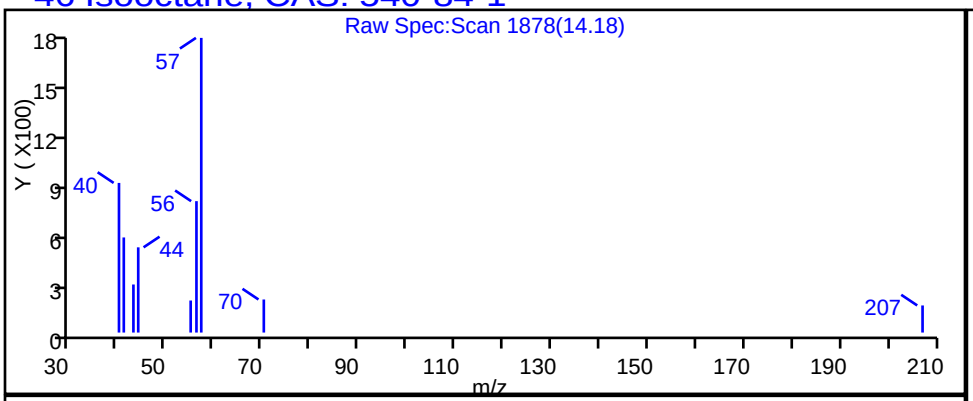
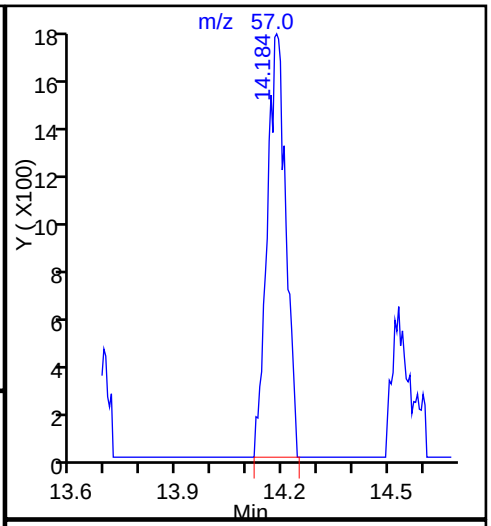
TestAmerica Burlington

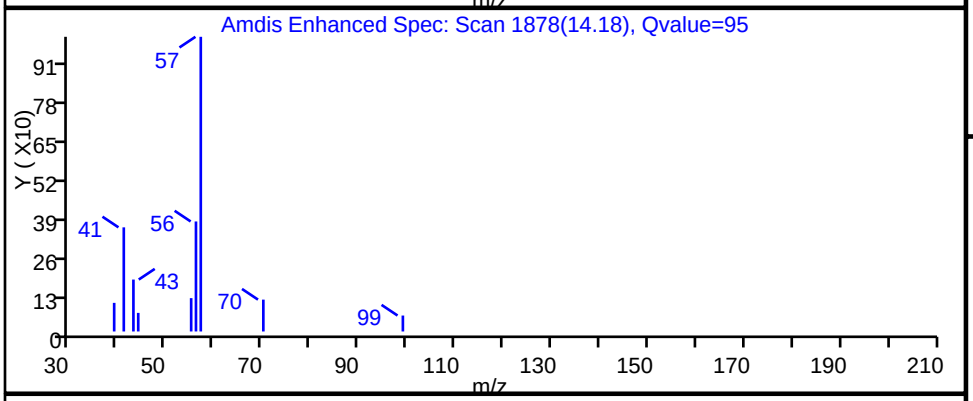
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

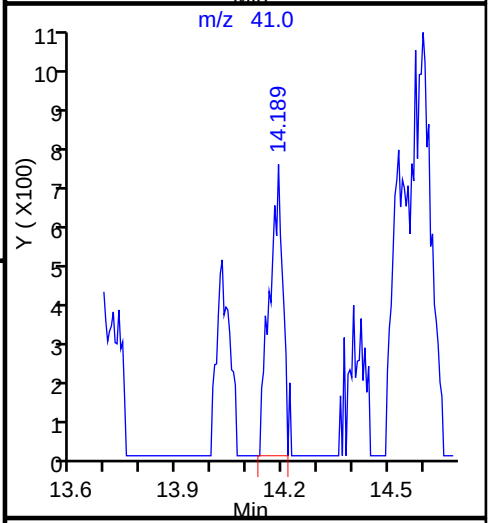
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

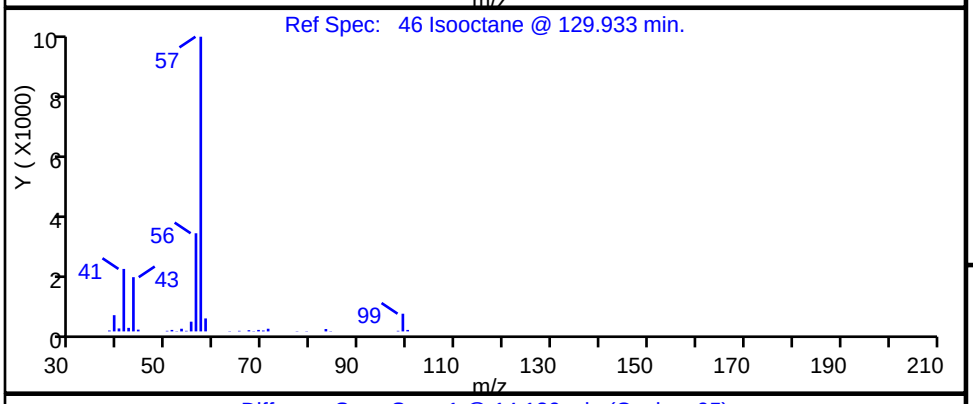
46 Isooctane, CAS: 540-84-1

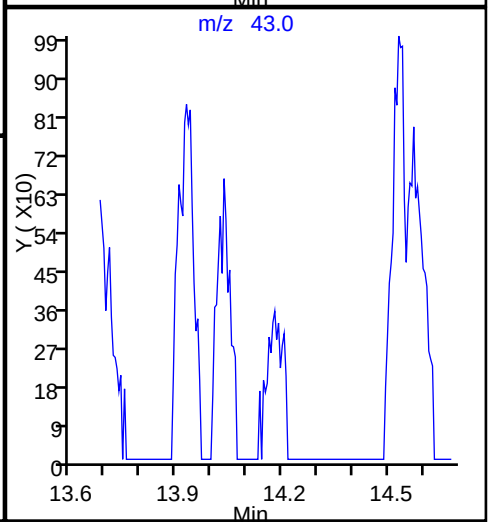


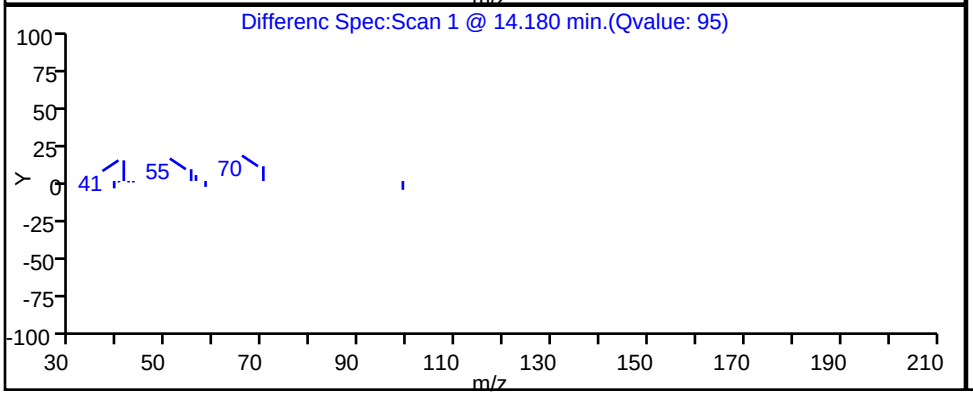












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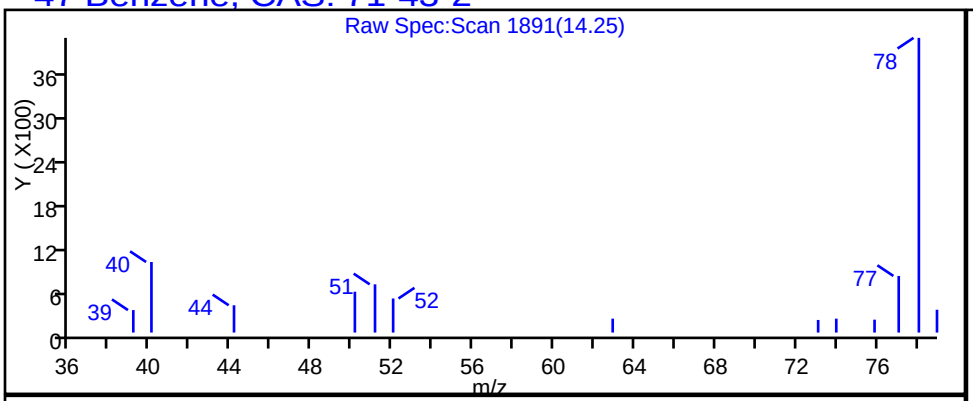
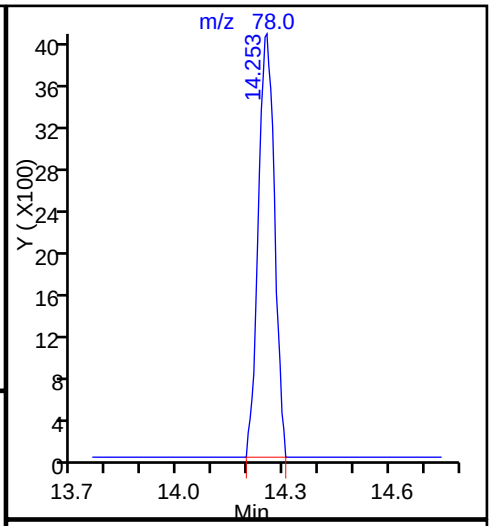
TestAmerica Burlington

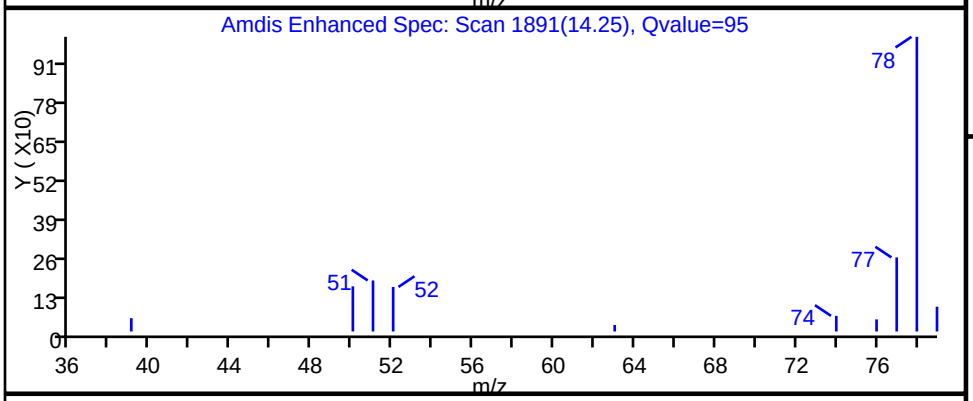
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

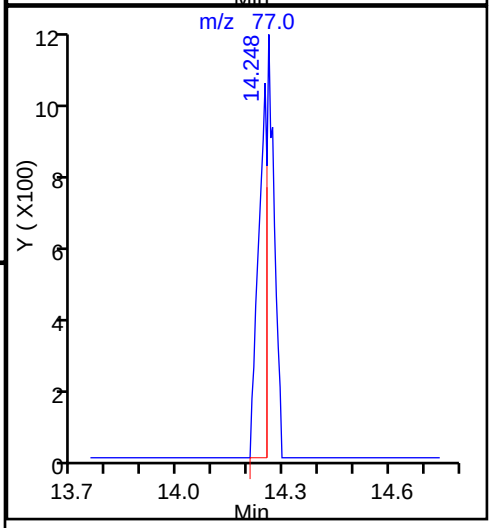
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

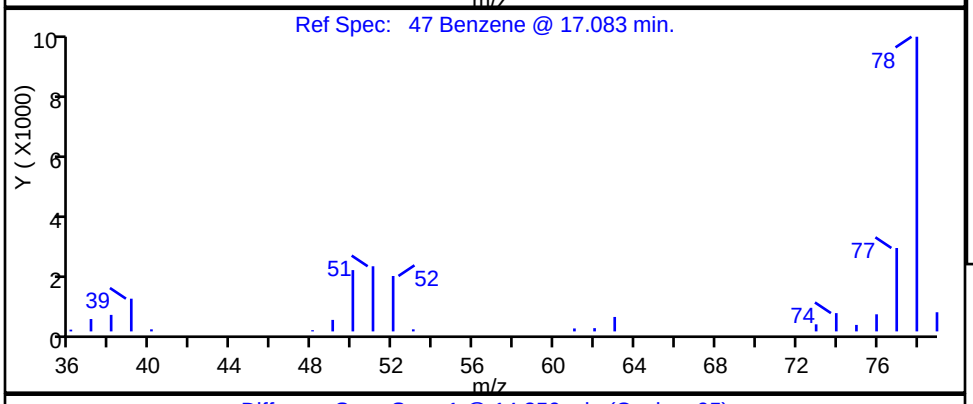
47 Benzene, CAS: 71-43-2

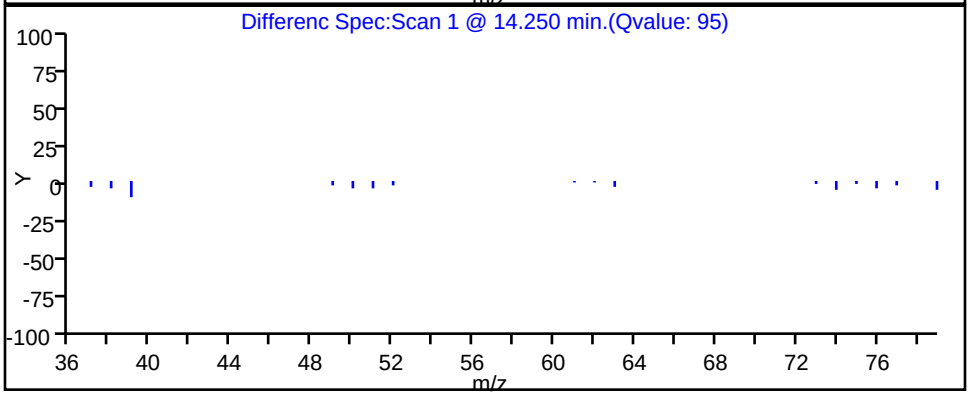












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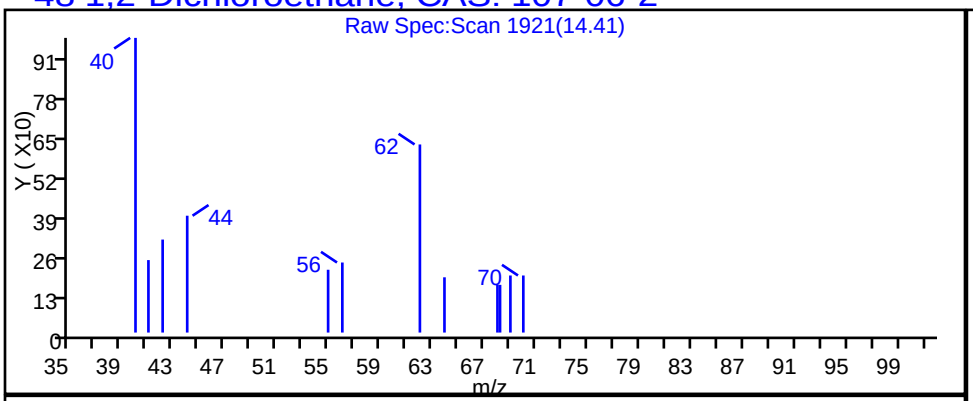
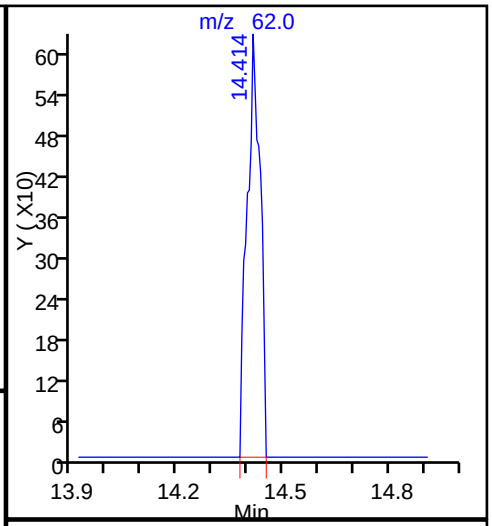
TestAmerica Burlington

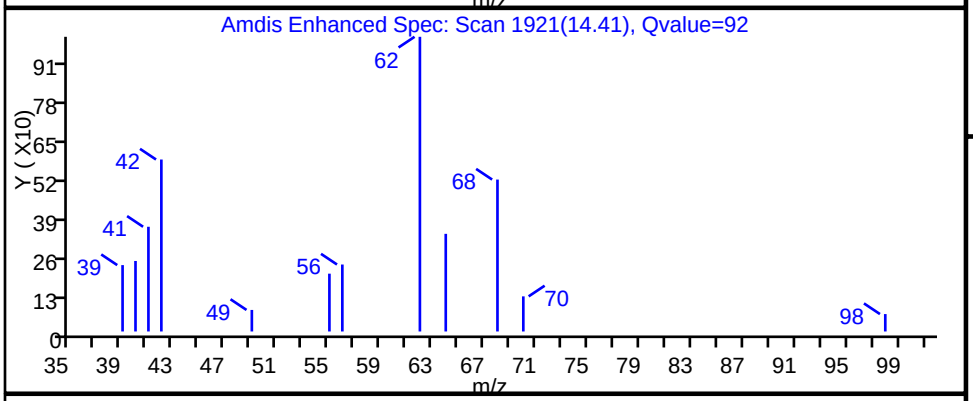
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

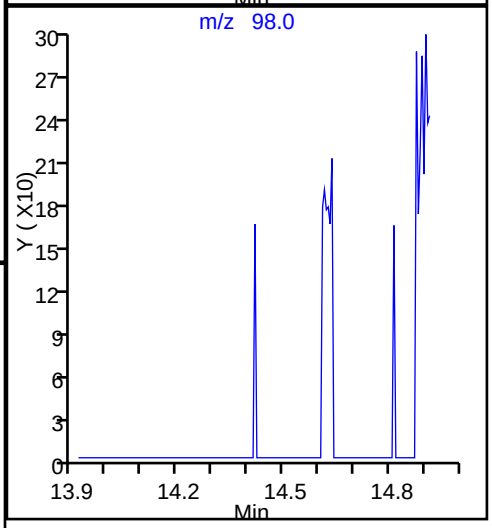
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

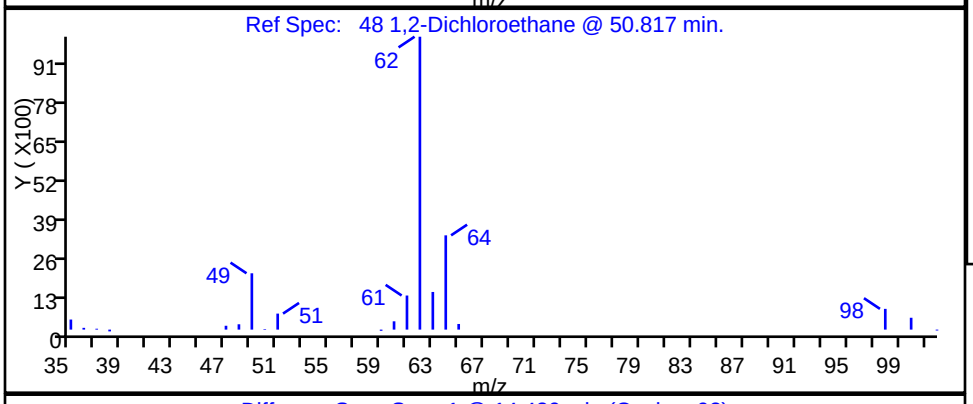
48 1,2-Dichloroethane, CAS: 107-06-2

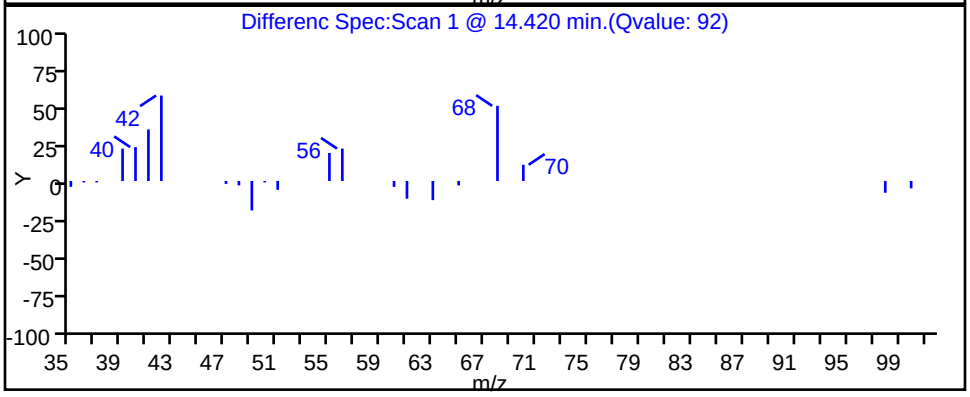












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TestAmerica Burlington

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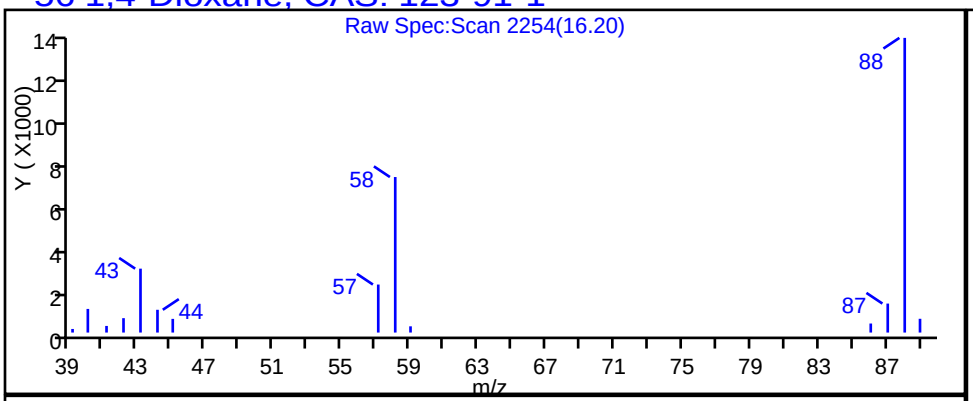
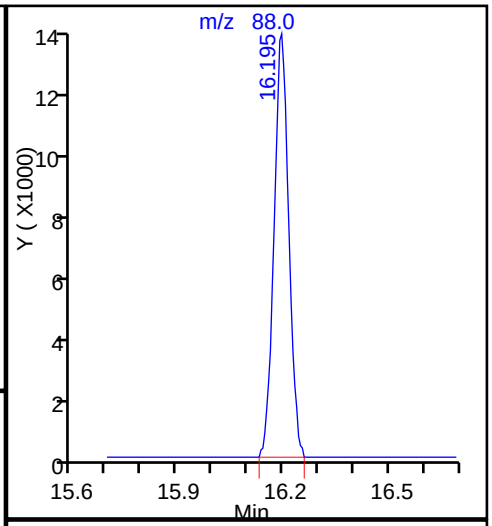
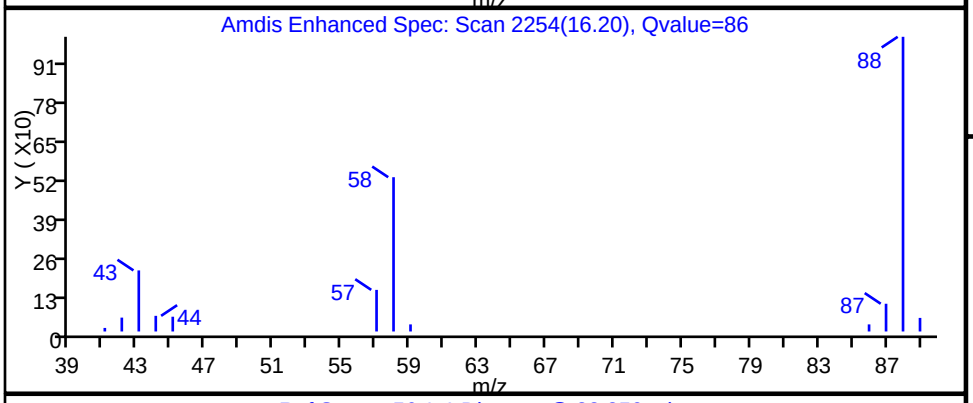
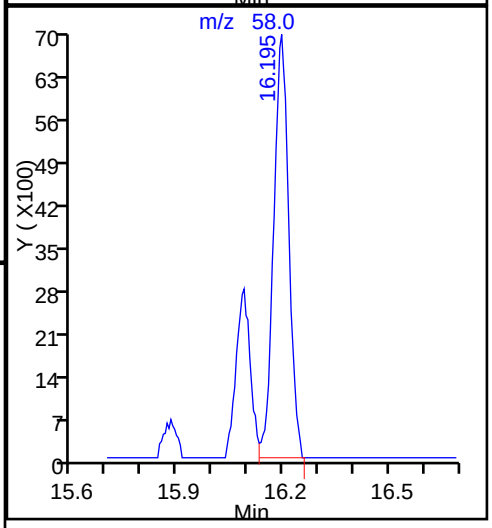
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

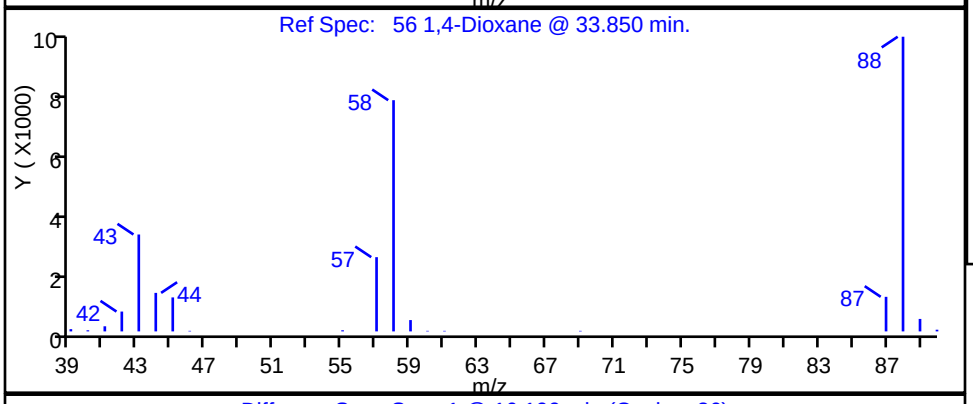
56 1,4-Dioxane, CAS: 123-91-1

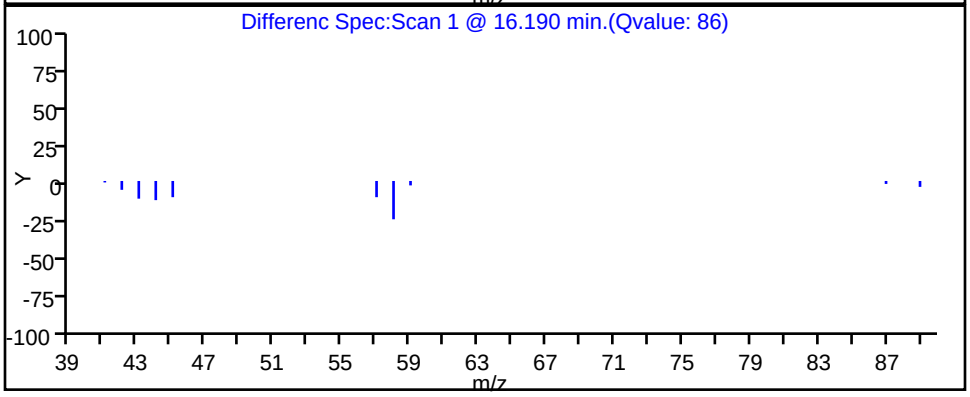










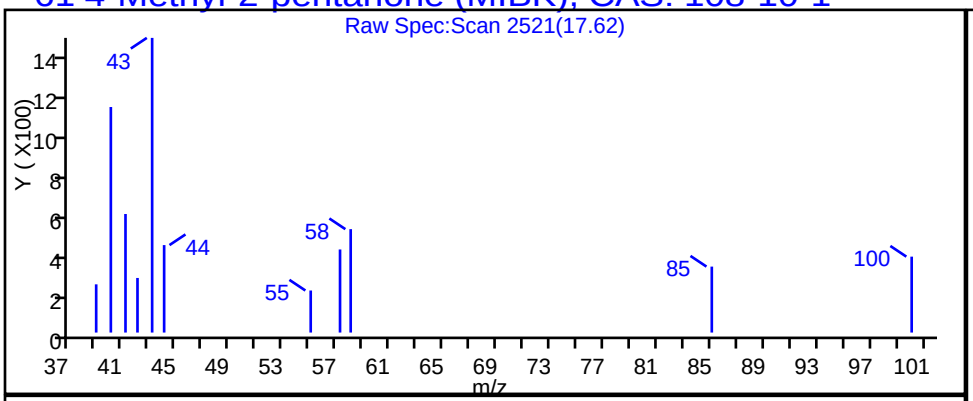


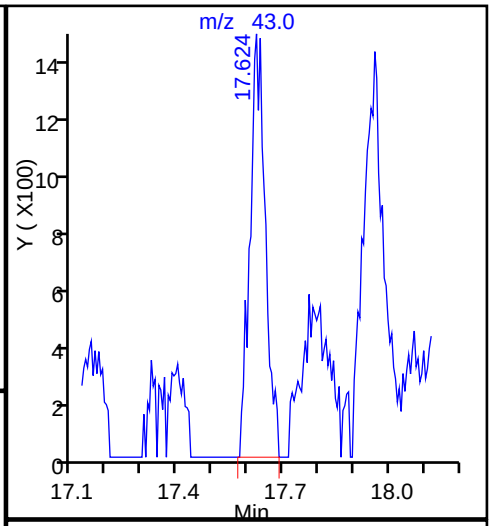
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

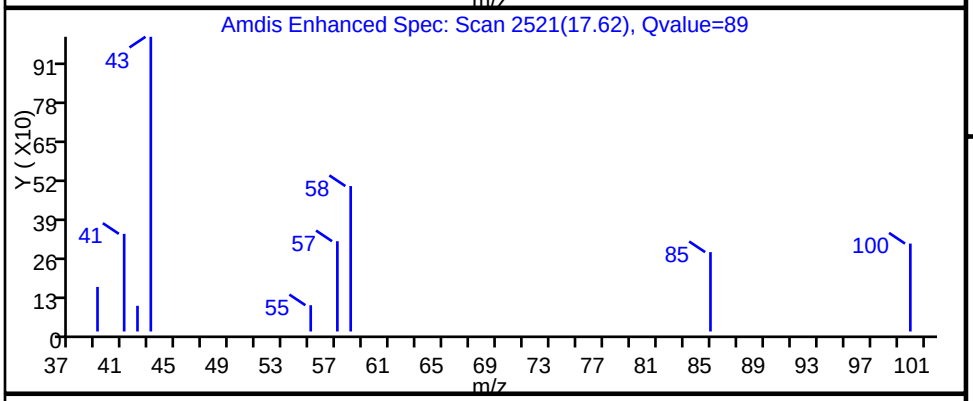
TestAmerica Burlington

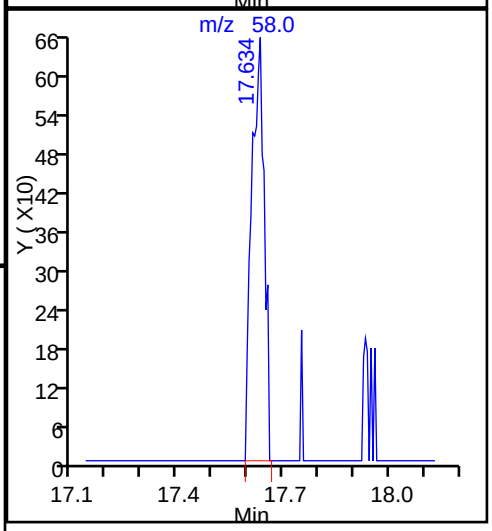
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

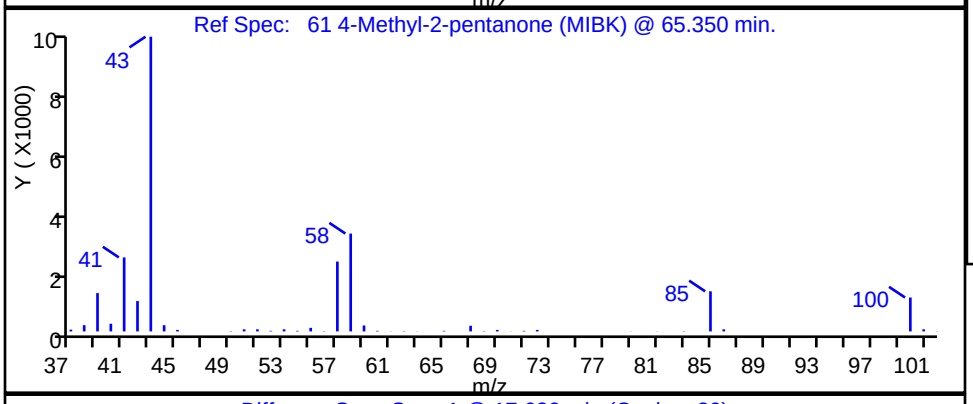
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

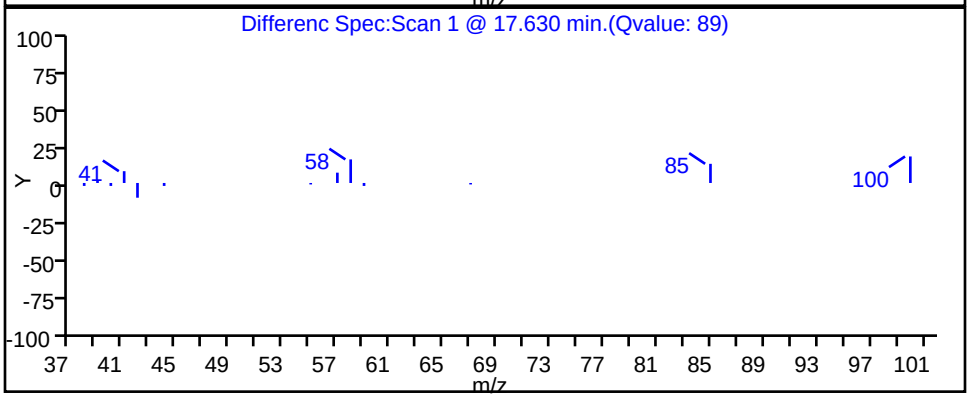










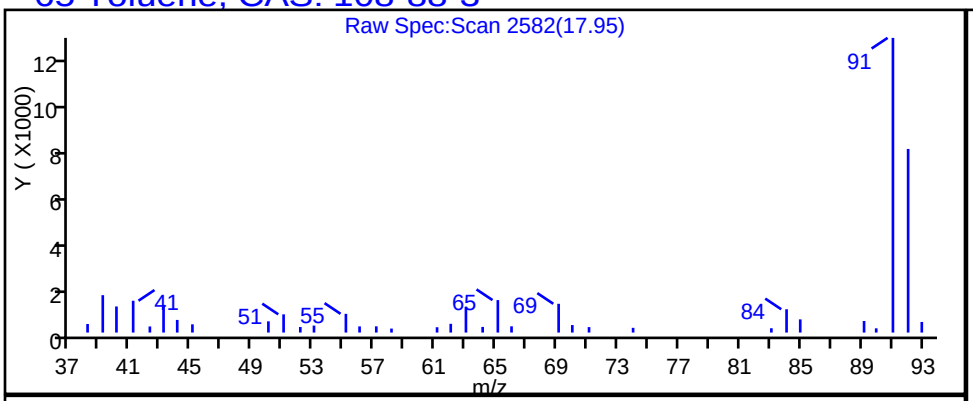


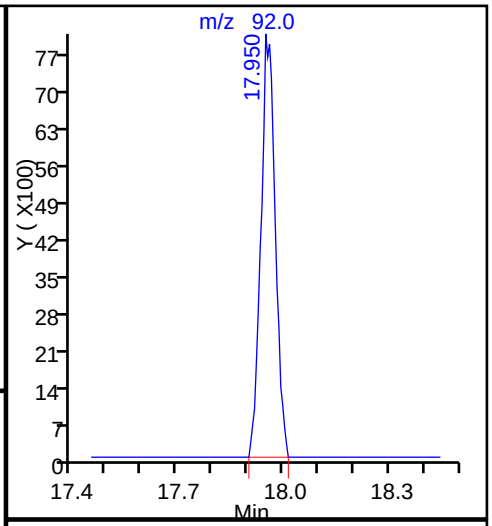
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

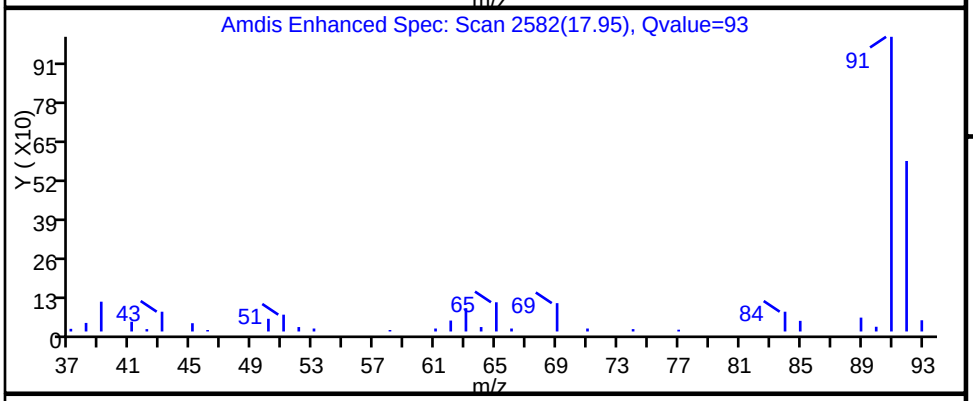
TestAmerica Burlington

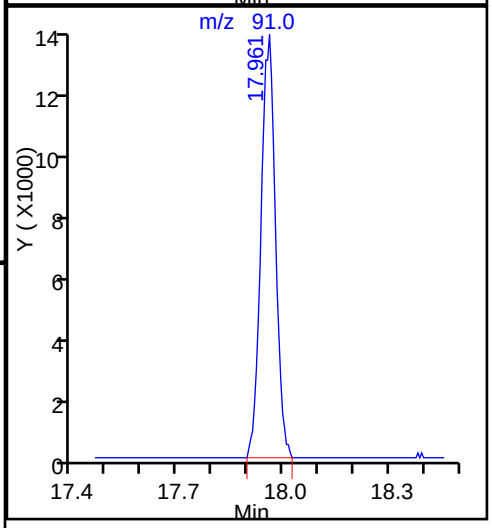
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

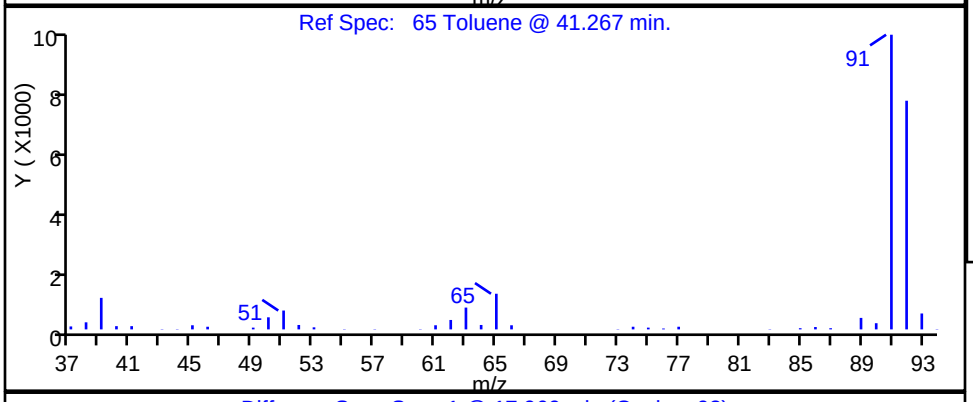
65 Toluene, CAS: 108-88-3

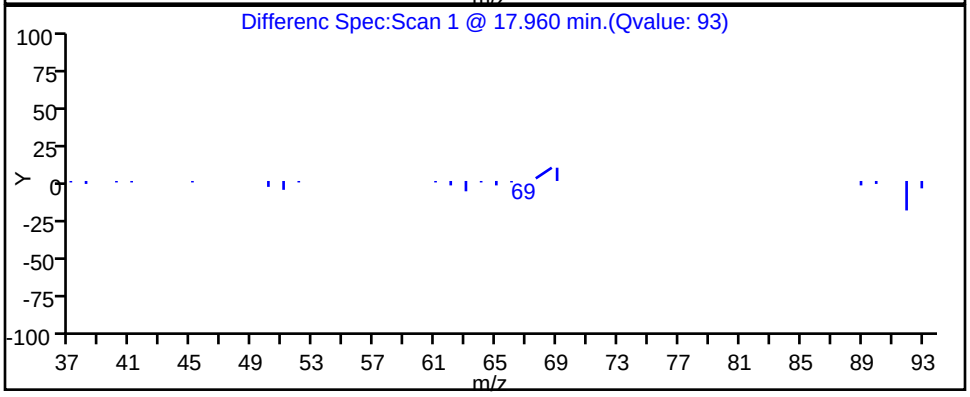












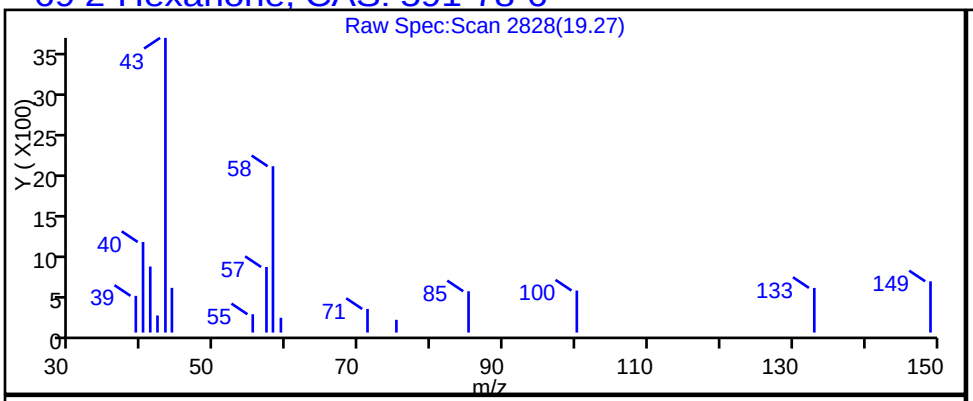
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

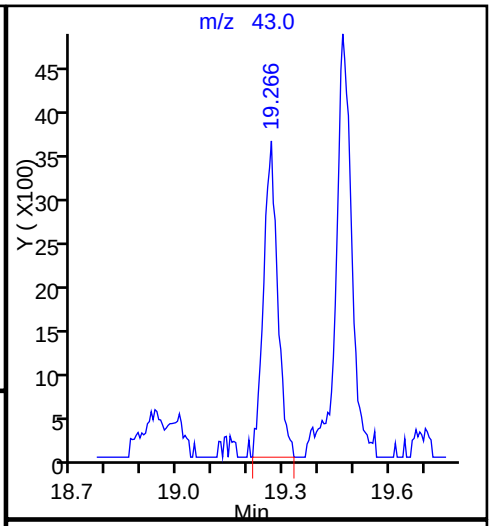
TestAmerica Burlington

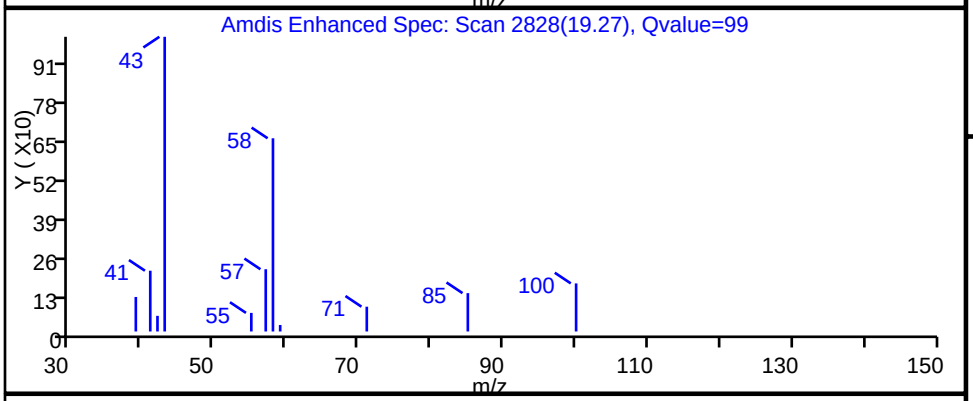
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

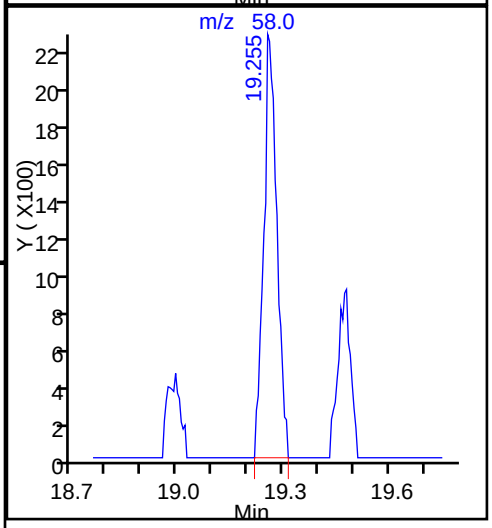
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8
Client ID:	FR-IA04-092315		
Operator ID:	pad	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

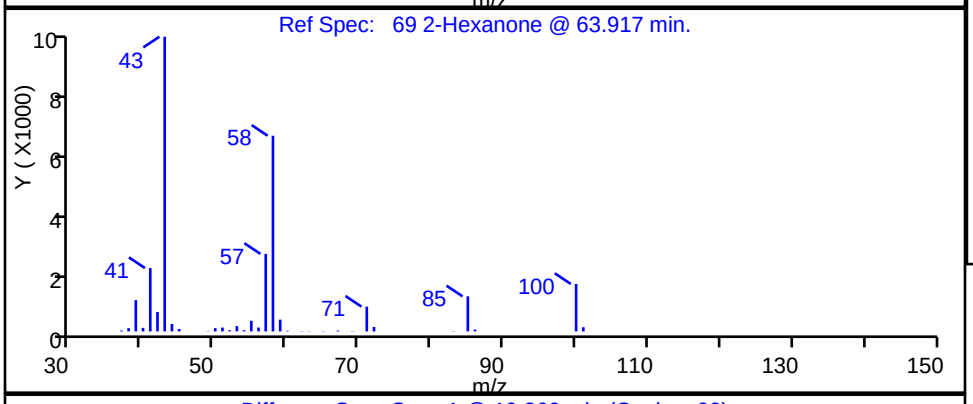
69 2-Hexanone, CAS: 591-78-6

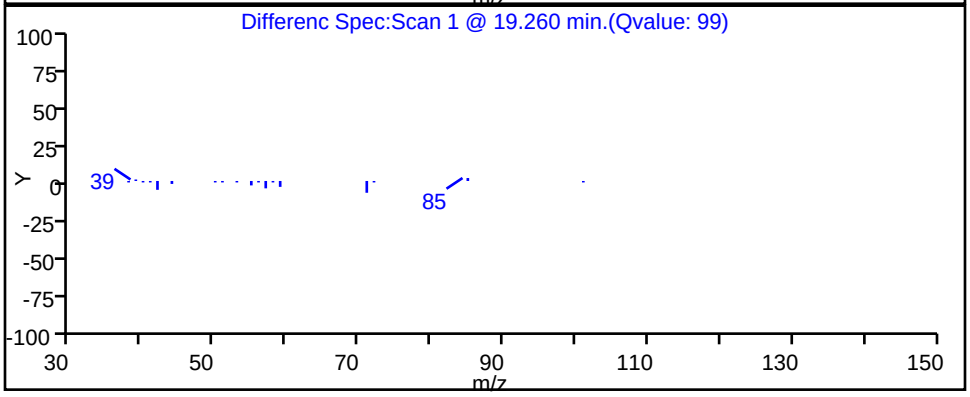










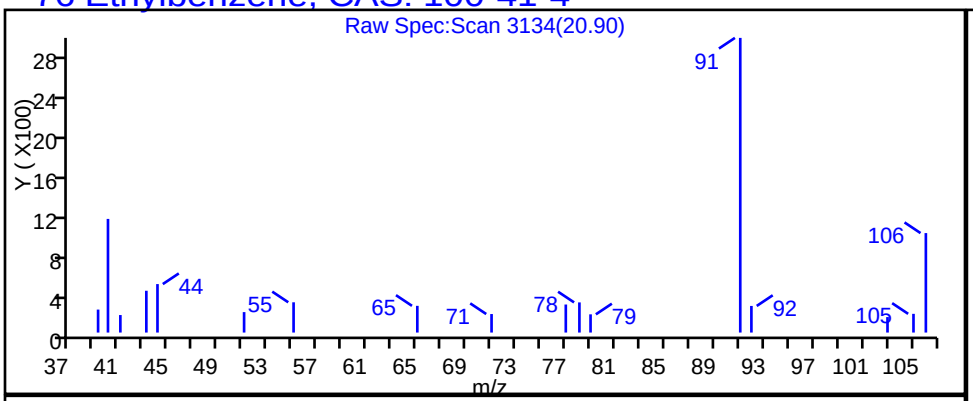


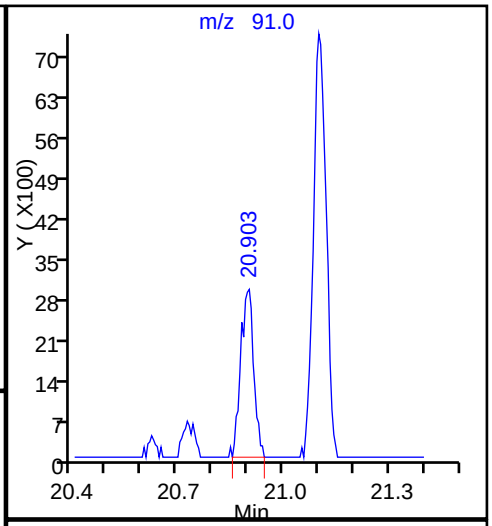
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

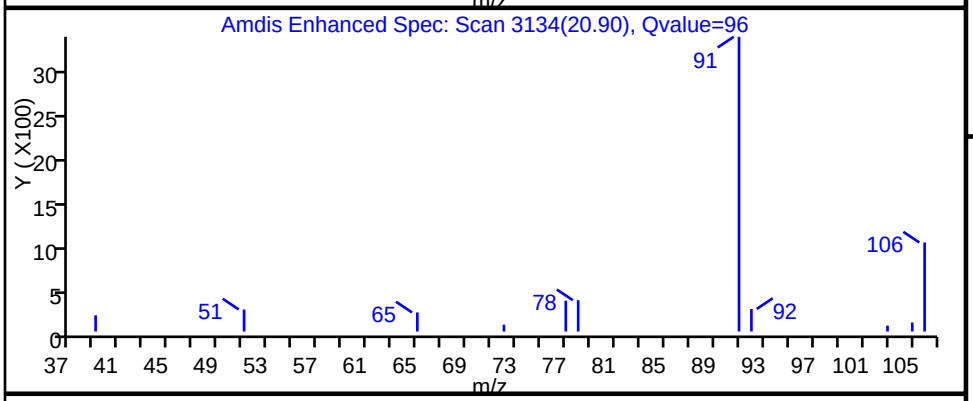
TestAmerica Burlington

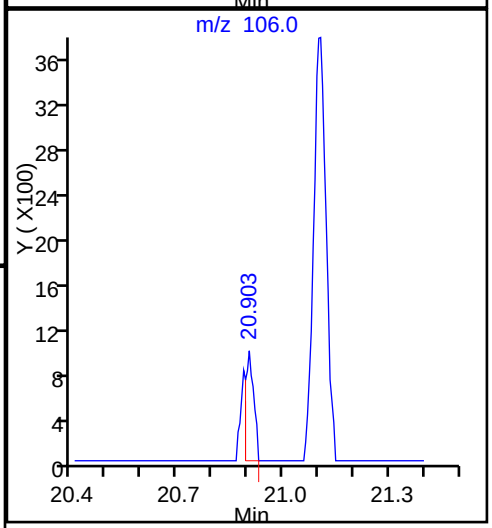
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

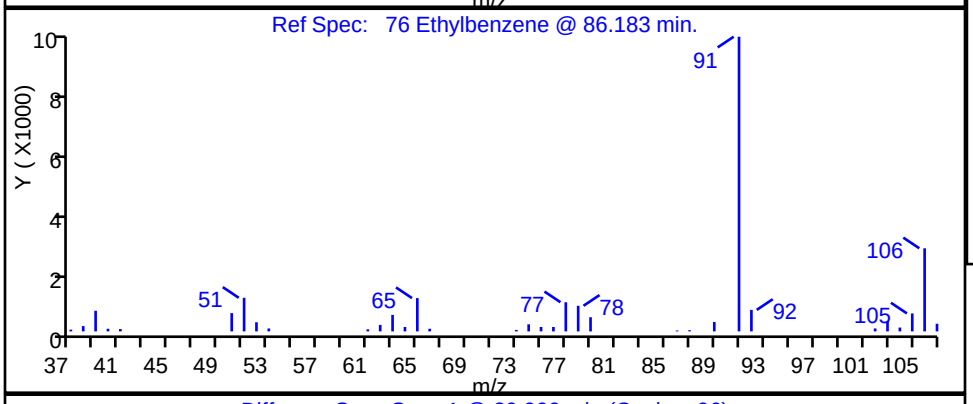
76 Ethylbenzene, CAS: 100-41-4

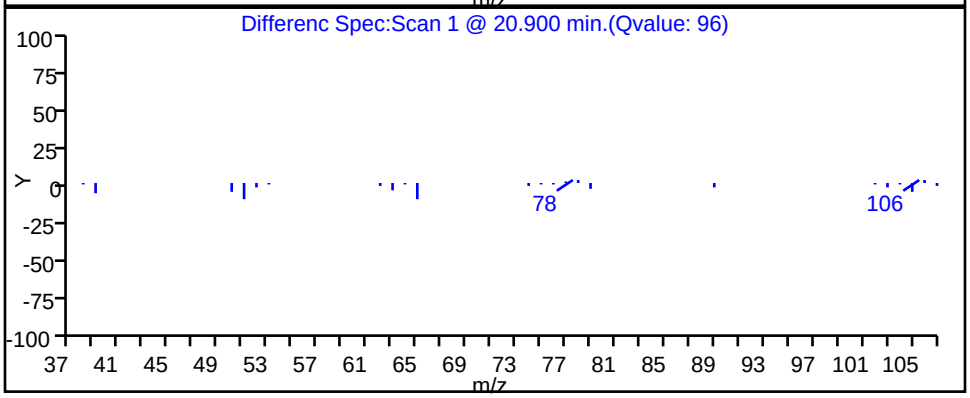










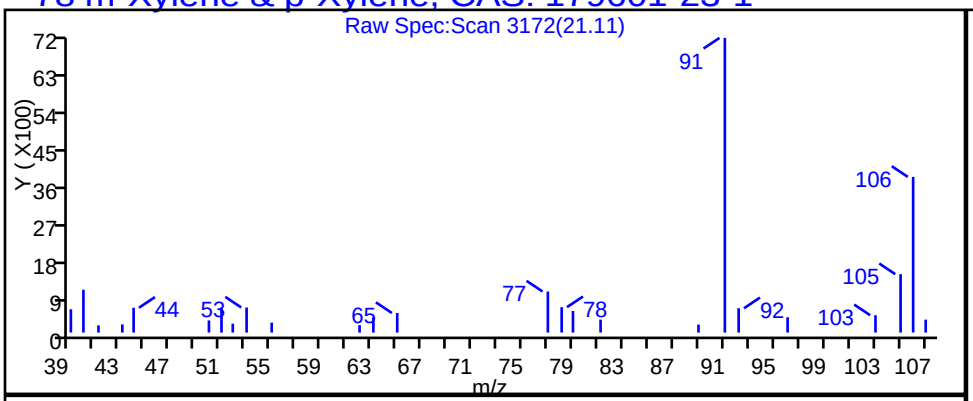


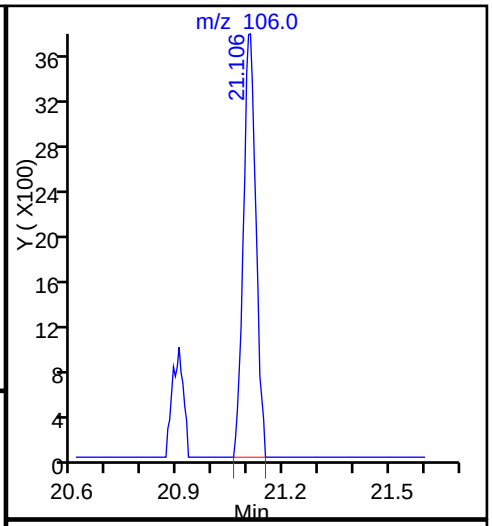
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

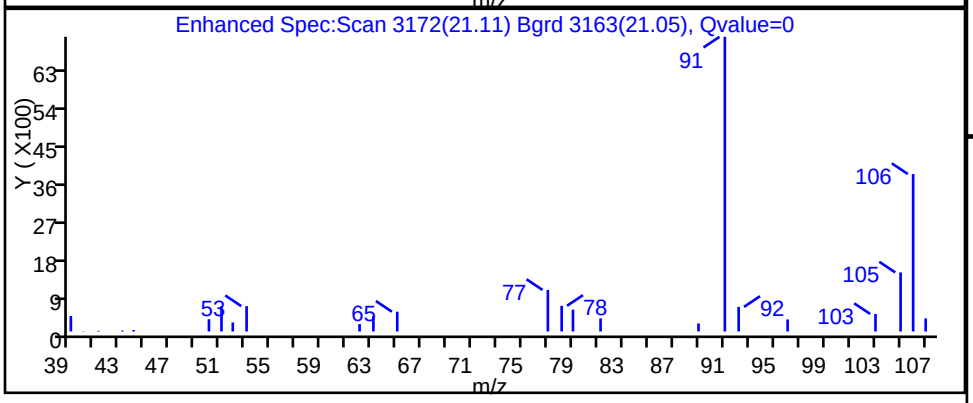
TestAmerica Burlington

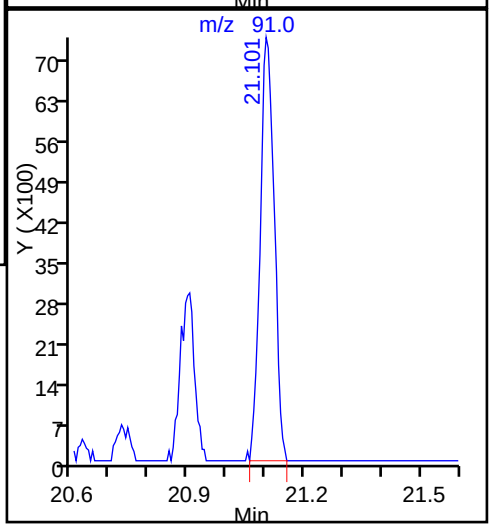
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









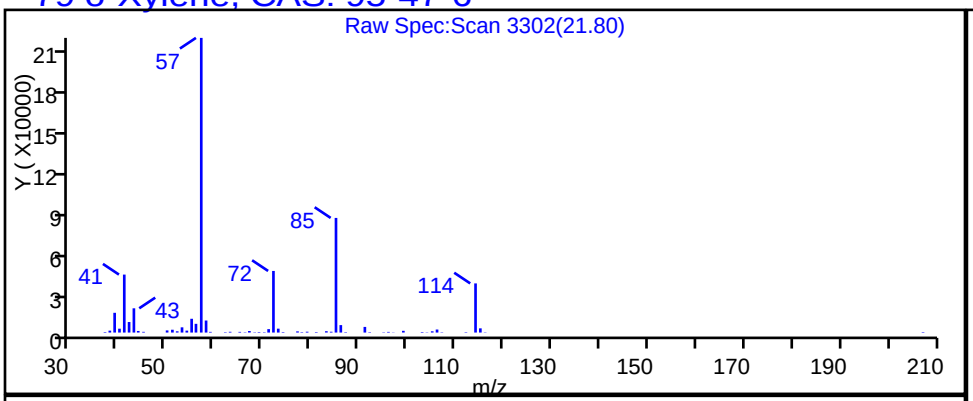
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

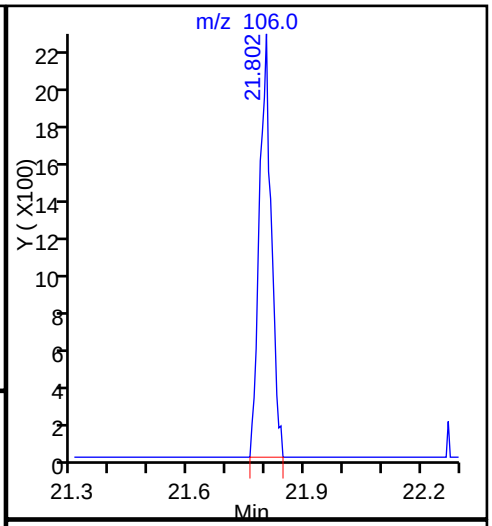
TestAmerica Burlington

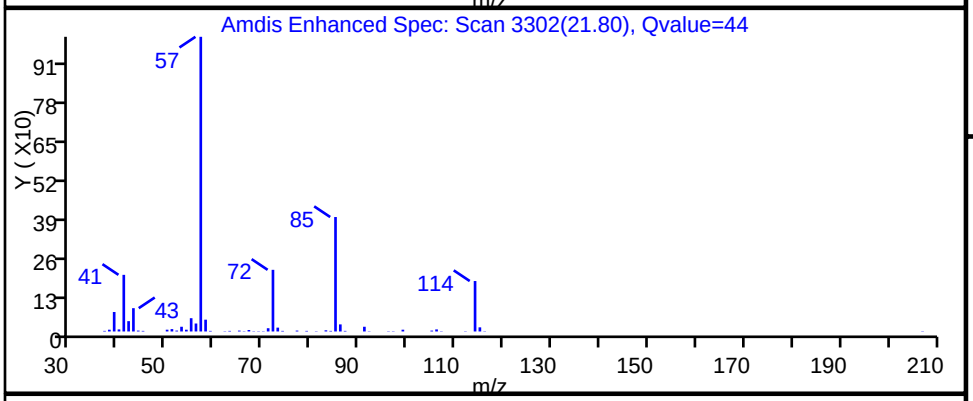
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d

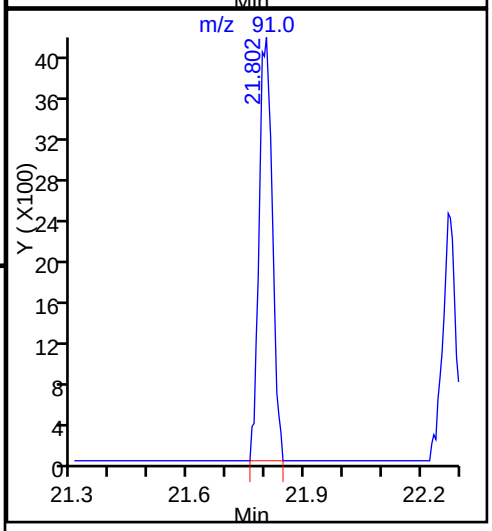
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

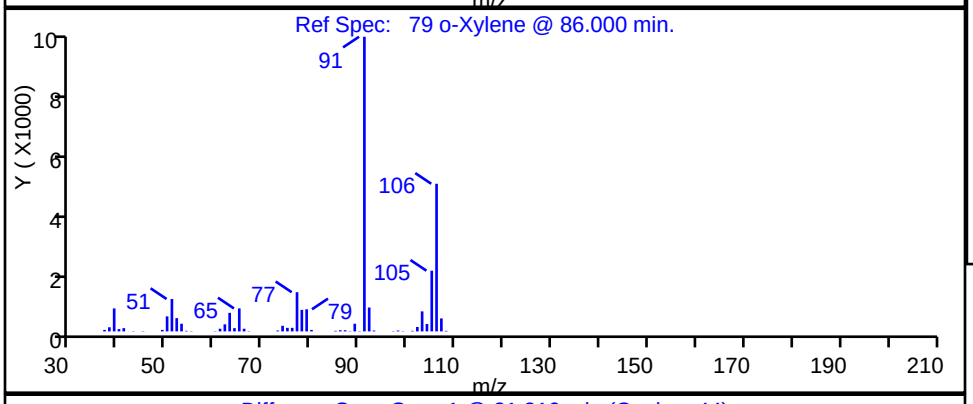
79 o-Xylene, CAS: 95-47-6

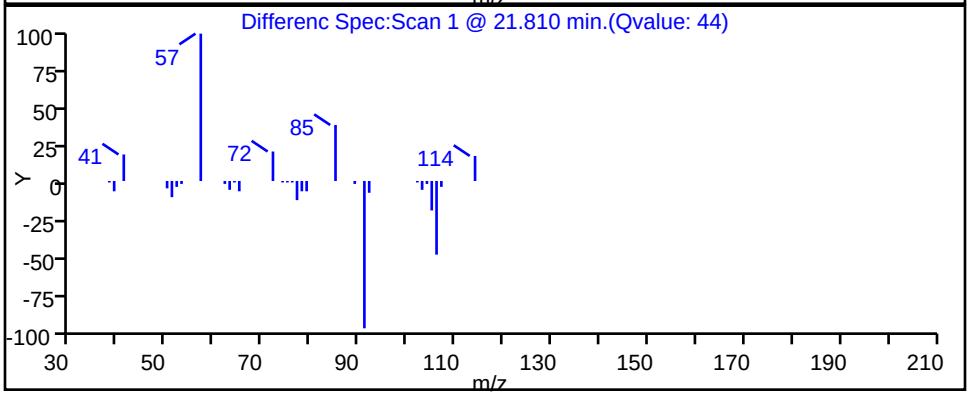










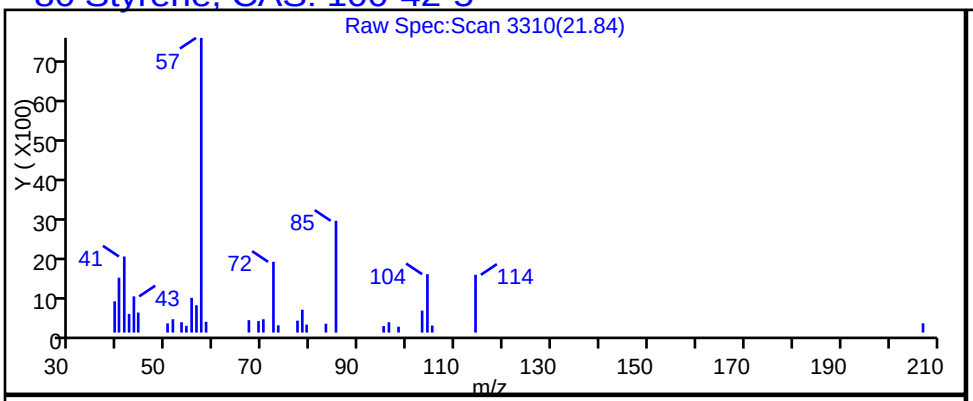


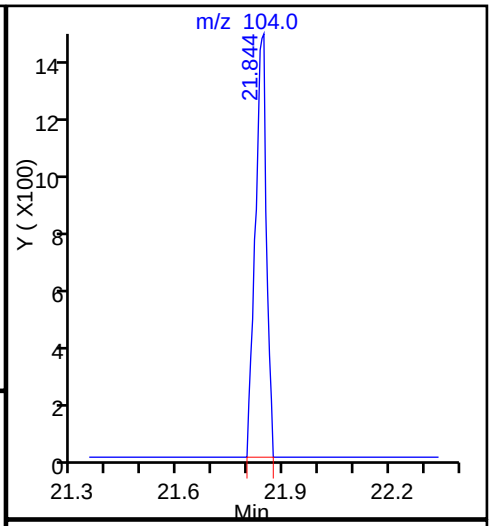
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

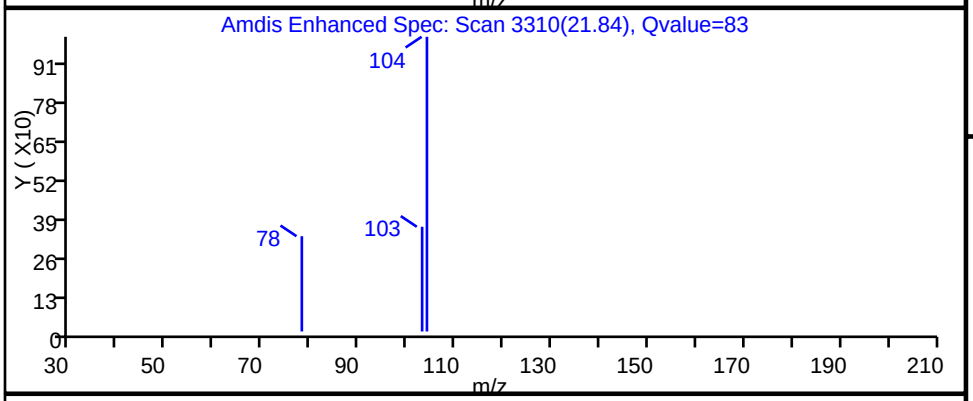
TestAmerica Burlington

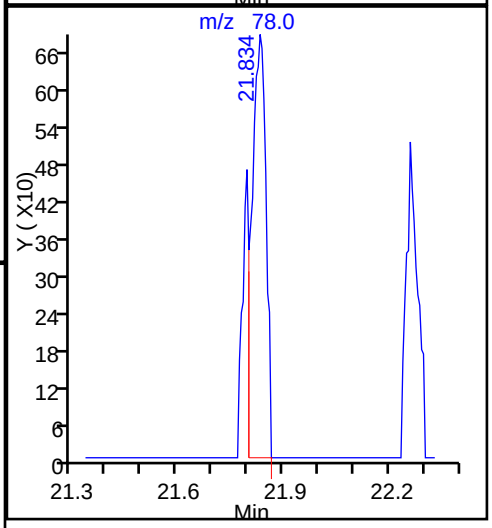
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d		
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8
Client ID:	FR-IA04-092315		
Operator ID:	pad	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

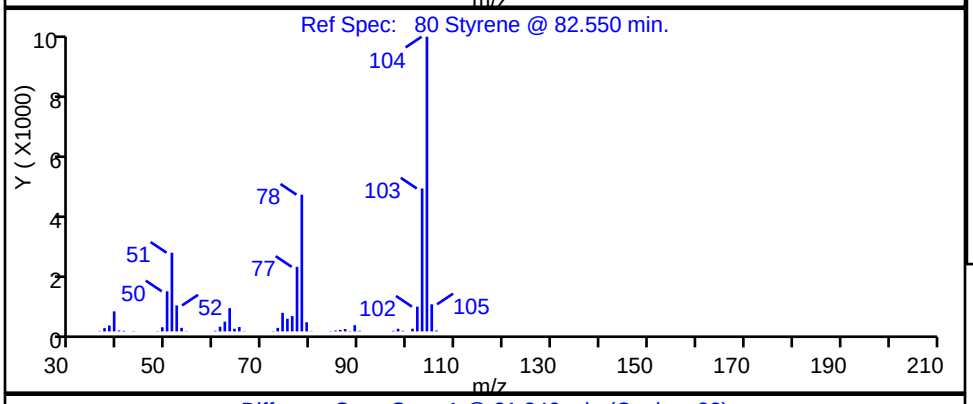
80 Styrene, CAS: 100-42-5

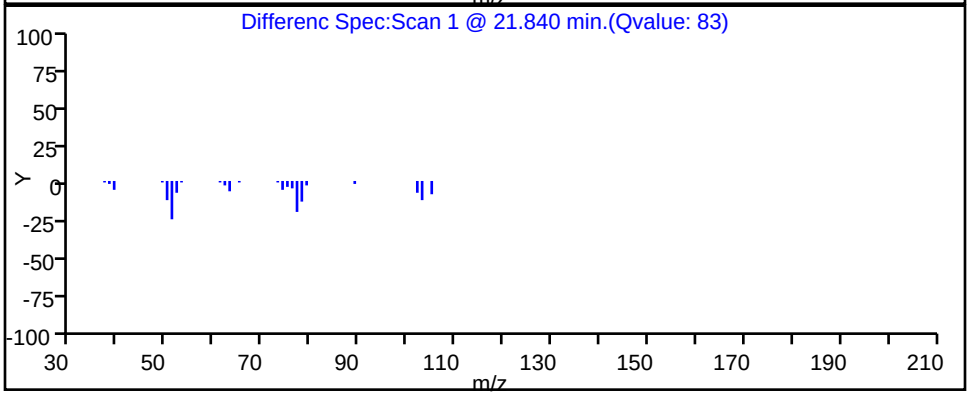










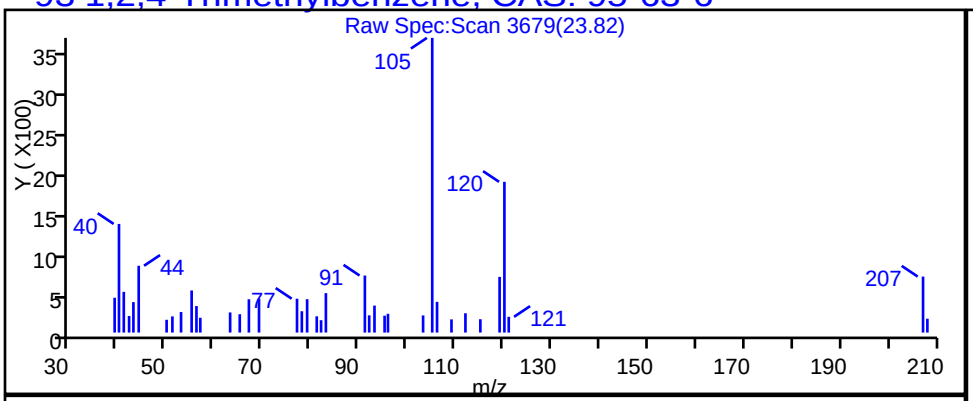


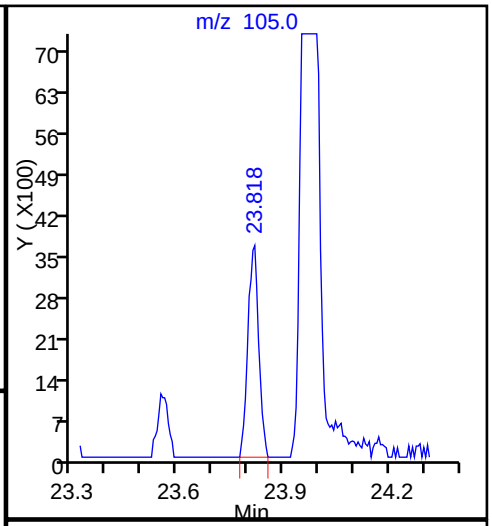
Report Date: 30-Sep-2015 14:17:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

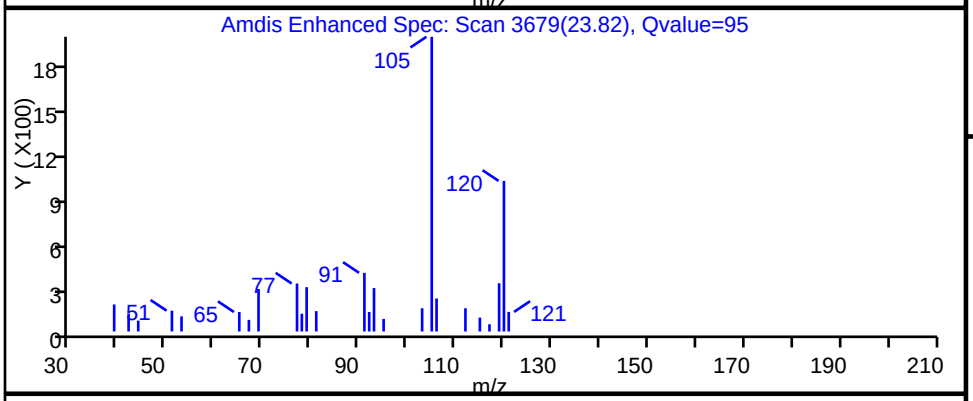
TestAmerica Burlington

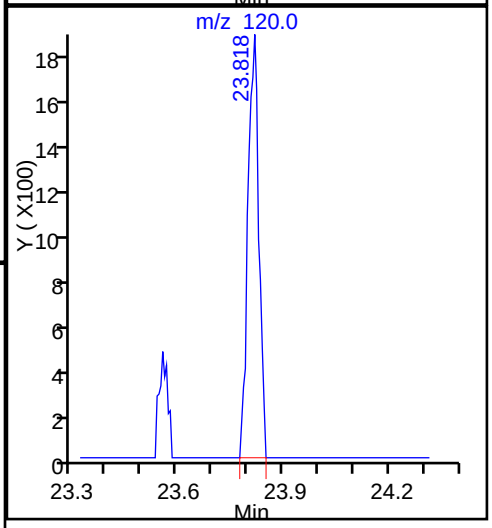
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

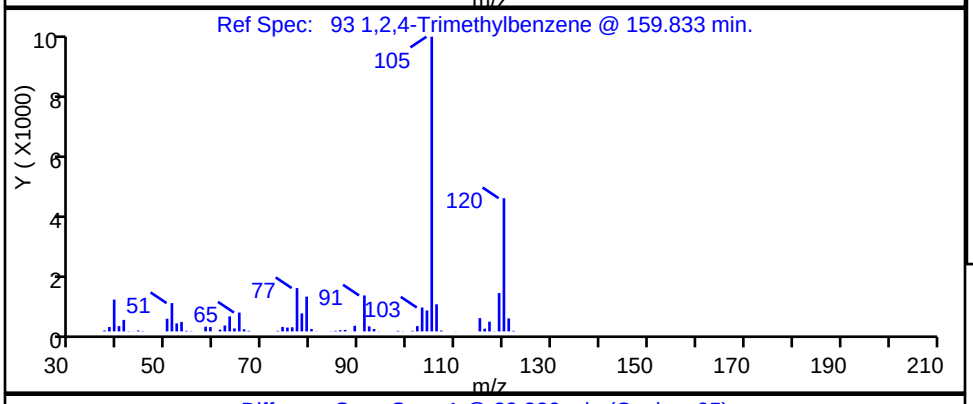
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

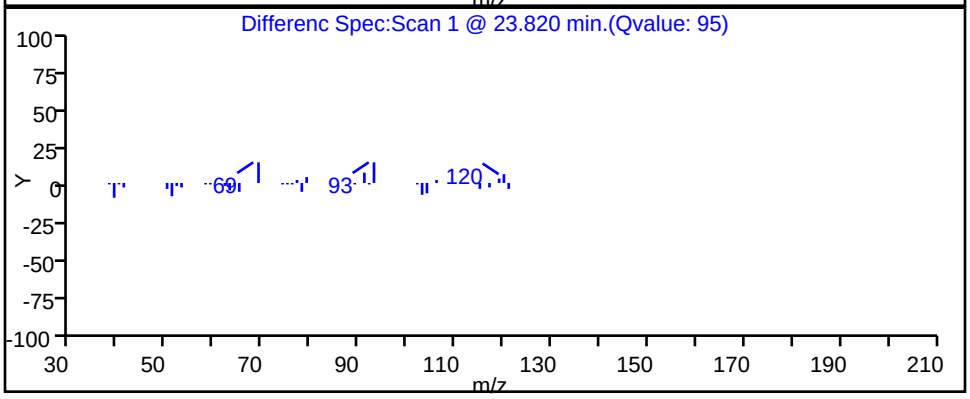












Manual Integration/User Assign Peak Report

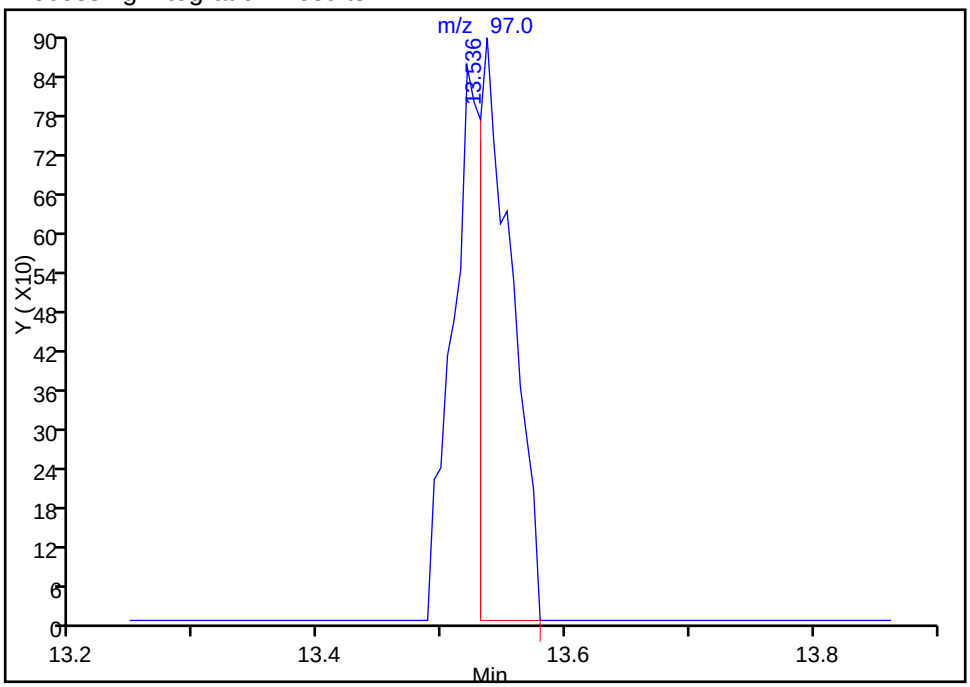
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

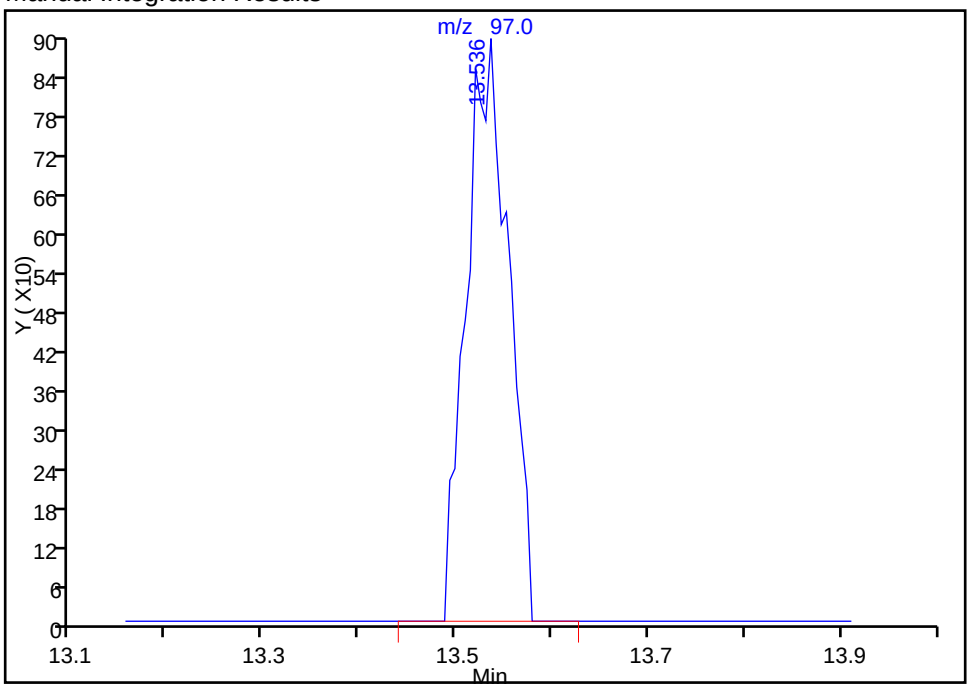
Processing Integration Results

RT: 13.54
Area: 1601
Amount: 0.034338
Amount Units: ppb v/v



Manual Integration Results

RT: 13.54
Area: 2723
Amount: 0.058403
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:54:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

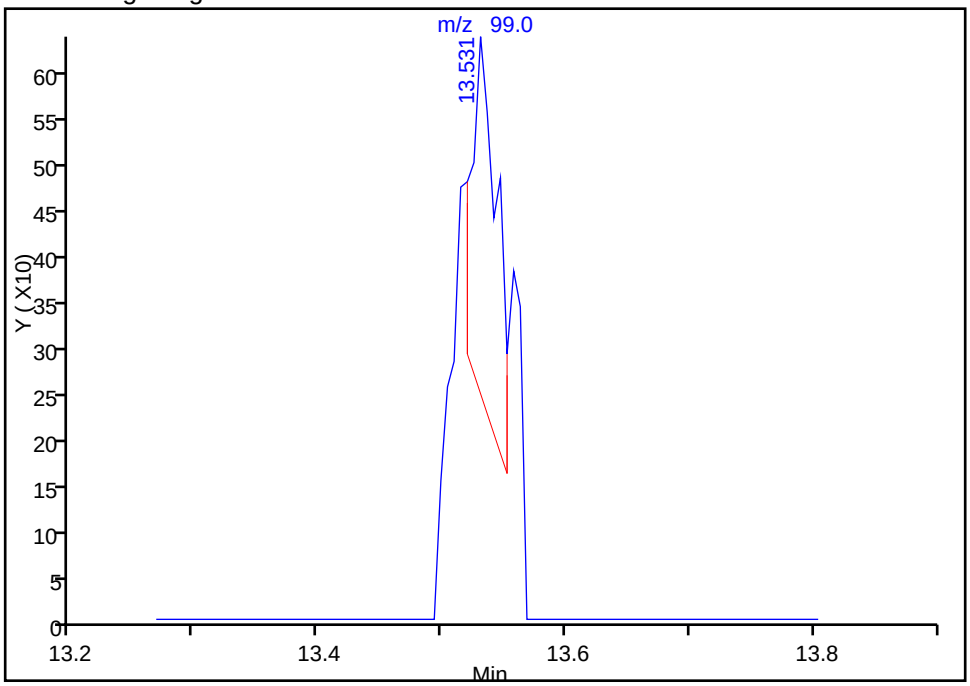
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

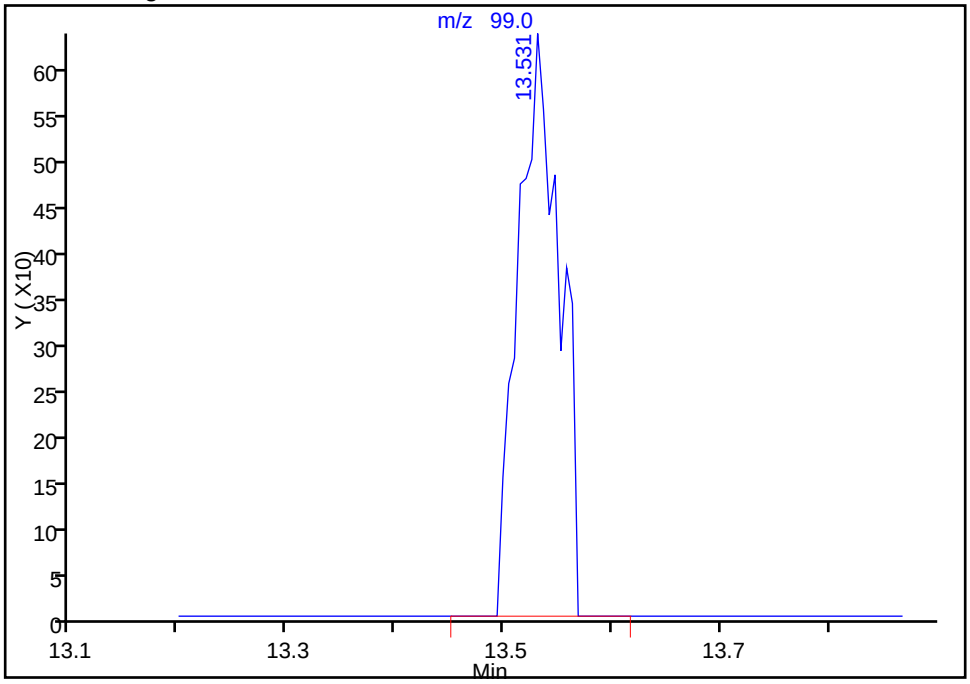
Processing Integration Results

RT: 13.53
Area: 582
Amount: 0.034338
Amount Units: ppb v/v



Manual Integration Results

RT: 13.53
Area: 1695
Amount: 0.058403
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:54:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

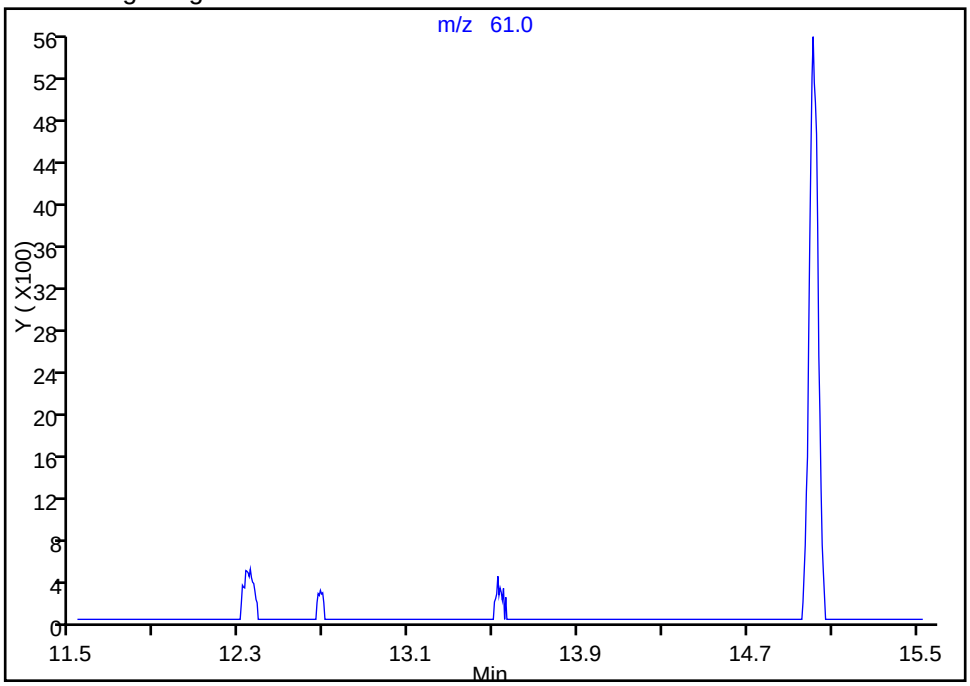
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Integration Results

RT: 13.53
Area: 0
Amount: 0.034338
Amount Units: ppb v/v



Manual Integration Results

RT: 13.52
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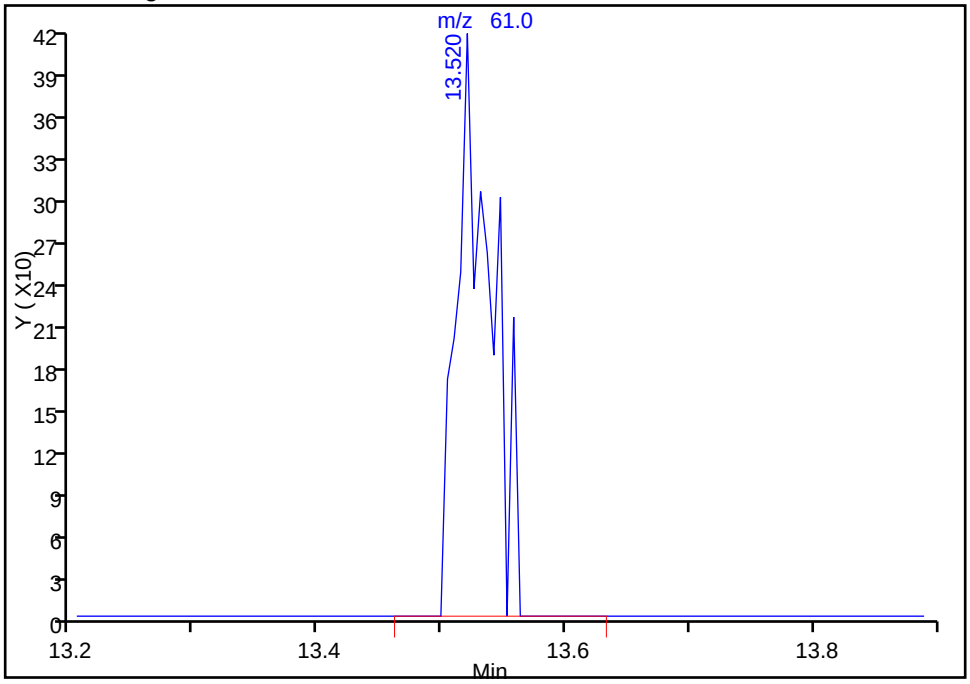
Amount: 0.058403
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:54:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

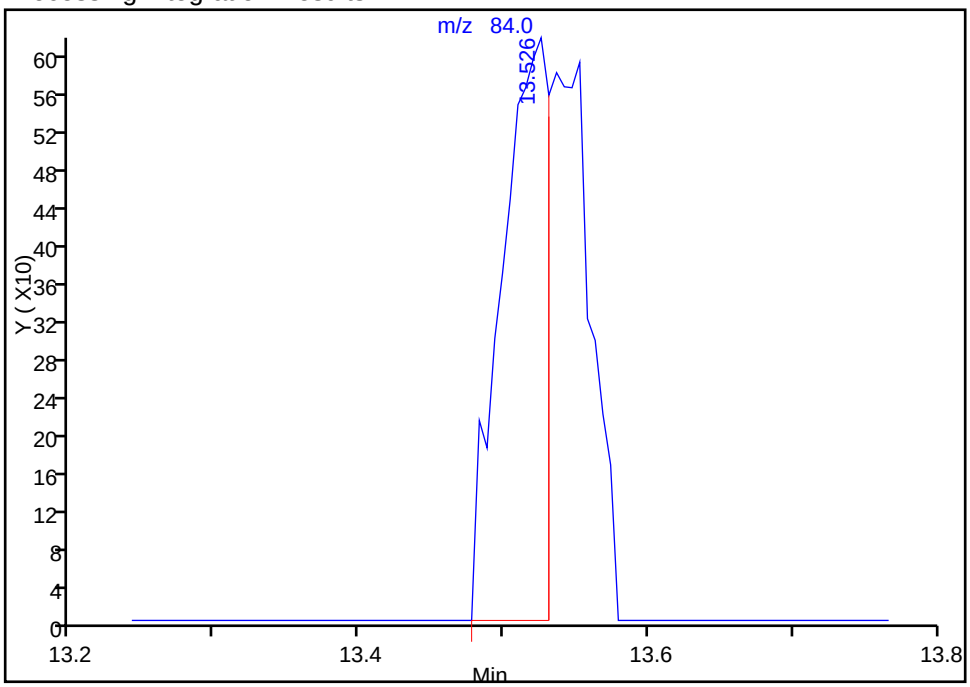
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

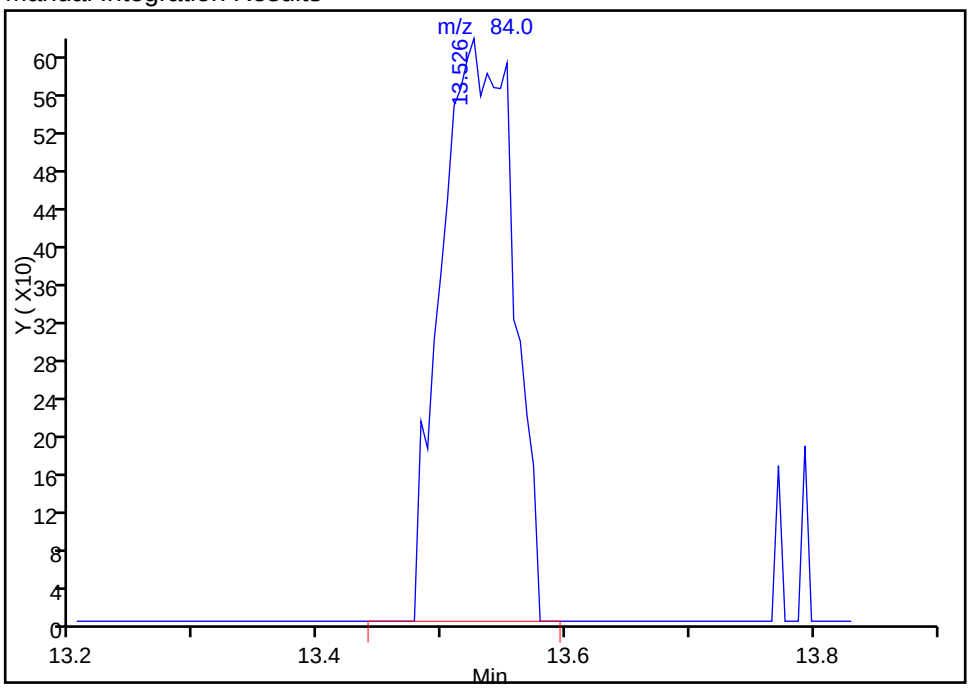
Processing Integration Results

RT: 13.53
Area: 1410
Amount: 0.064821
Amount Units: ppb v/v



Manual Integration Results

RT: 13.53
Area: 2471
Amount: 0.113598
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:54:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

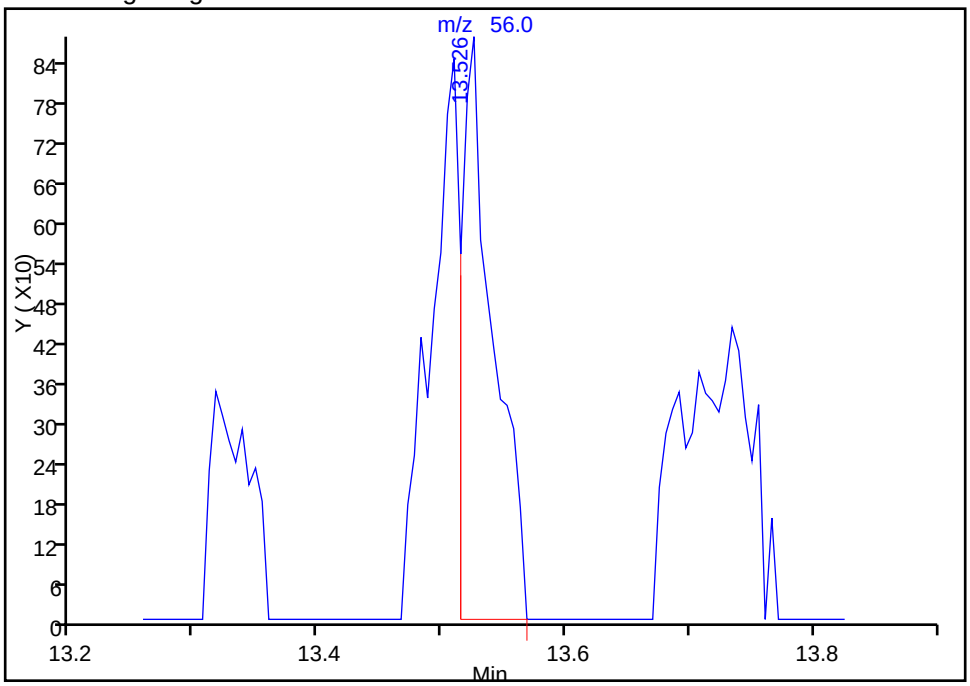
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

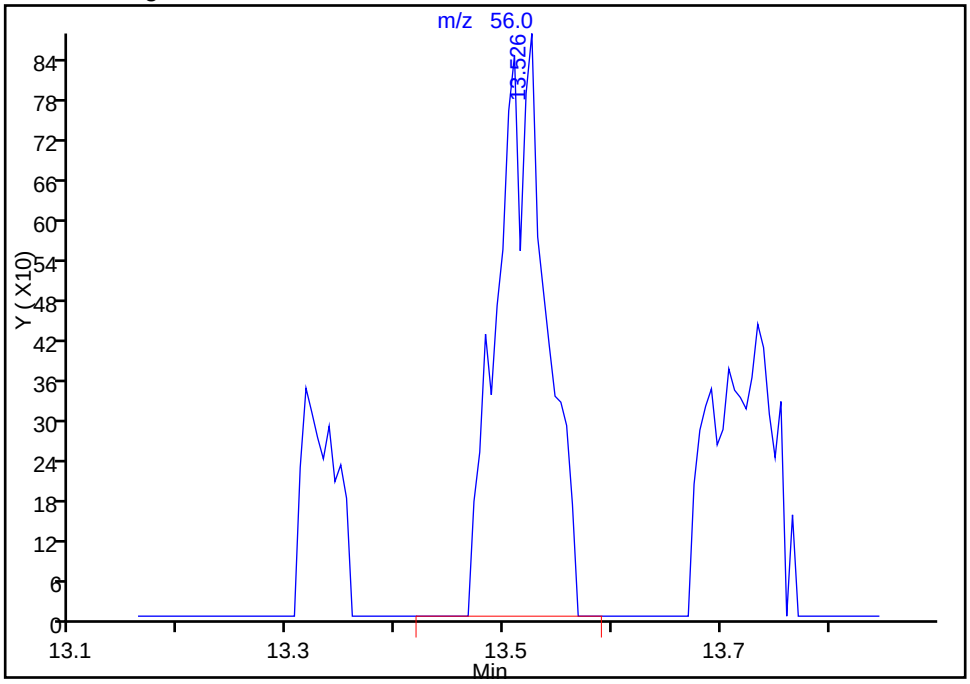
Processing Integration Results

RT: 13.53
Area: 1532
Amount: 0.064821
Amount Units: ppb v/v



Manual Integration Results

RT: 13.53
Area: 2748
Amount: 0.113598
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:54:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

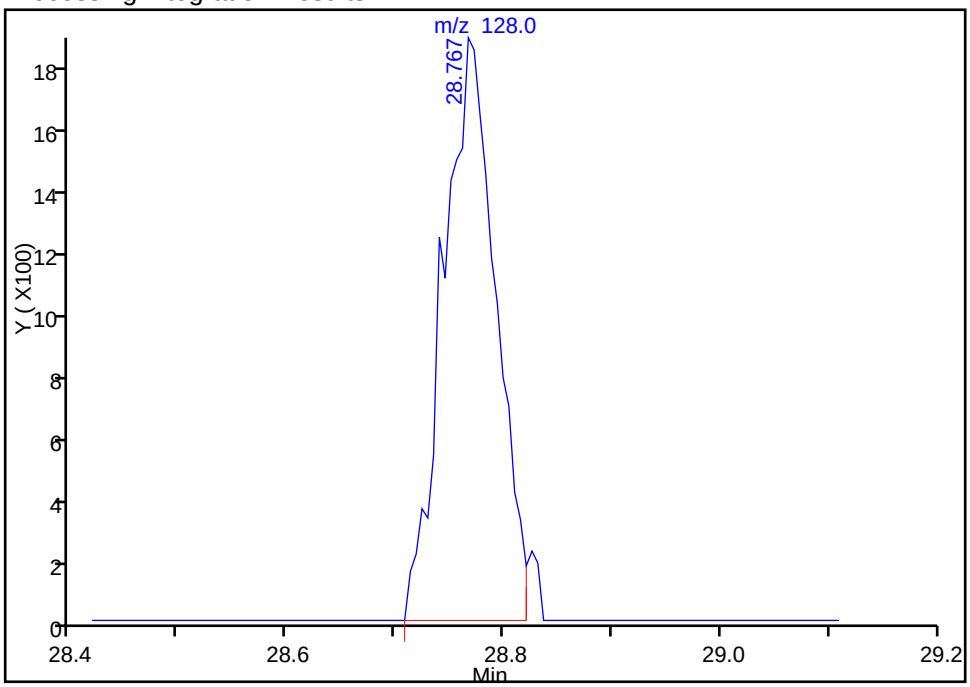
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_012.d				
Injection Date:	29-Sep-2015 19:33:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-8	Lab Sample ID:	200-29972-8		
Client ID:	FR-IA04-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

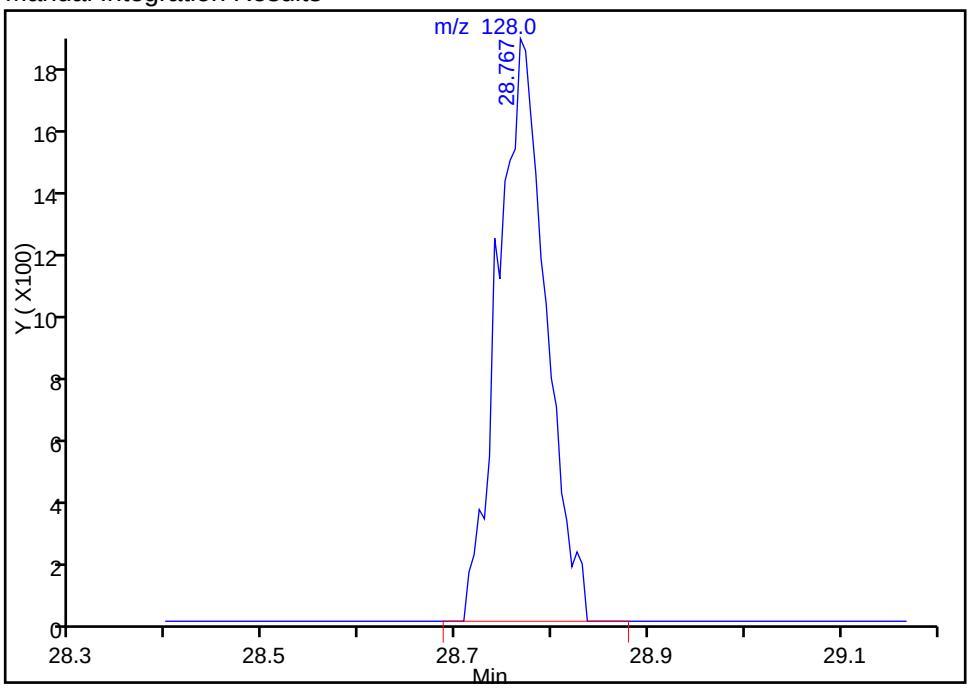
Processing Integration Results

RT: 28.77
Area: 6406
Amount: 0.044962
Amount Units: ppb v/v



Manual Integration Results

RT: 28.77
Area: 6539
Amount: 0.045895
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:54:17
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 | Lab Sample ID: 200-29972-9

Matrix: Air | Lab File ID: 15991_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 20:23

Soil Aliquot Vol: | Dilution Factor: 176

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	88	U	88	14
75-45-6	Freon 22	86.47	88	U	88	10
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	35	U	35	6.7
74-87-3	Chloromethane	50.49	88	U	88	16
106-97-8	n-Butane	58.12	25	J	88	14
75-01-4	Vinyl chloride	62.50	7.0	U	7.0	5.6
106-99-0	1,3-Butadiene	54.09	35	U	35	16
74-83-9	Bromomethane	94.94	35	U	35	9.9
75-00-3	Chloroethane	64.52	88	U	88	15
593-60-2	Bromoethene(Vinyl Bromide)	106.96	35	U	35	7.7
75-69-4	Trichlorofluoromethane	137.37	73		35	6.7
76-13-1	Freon TF	187.38	35	U	35	13
75-35-4	*1,1-Dichloroethene*	*96.94*	*17000*	*E*	*35*	*6.3*
67-64-1	Acetone	58.08	880	U	880	150
67-63-0	Isopropyl alcohol	60.10	880	U	880	170
75-15-0	Carbon disulfide	76.14	88	U	88	7.6
107-05-1	3-Chloropropene	76.53	88	U	88	12
75-09-2	Methylene Chloride	84.93	88	U	88	32
75-65-0	tert-Butyl alcohol	74.12	880	U	880	150
1634-04-4	Methyl tert-butyl ether	88.15	35	U	35	16
156-60-5	trans-1,2-Dichloroethene	96.94	35	U	35	7.6
110-54-3	n-Hexane	86.17	35	U	35	9.5
75-34-3	1,1-Dichloroethane	98.96	4200		35	4.4
78-93-3	Methyl Ethyl Ketone	72.11	88	U	88	9.2
156-59-2	cis-1,2-Dichloroethene	96.94	35	U	35	6.2
540-59-0	1,2-Dichloroethene, Total	96.94	70	U	70	6.2
67-66-3	Chloroform	119.38	35	U	35	14
109-99-9	Tetrahydrofuran	72.11	880	U	880	250
71-55-6	1,1,1-Trichloroethane	133.41	35		35	8.1
110-82-7	Cyclohexane	84.16	35	U	35	6.9
56-23-5	Carbon tetrachloride	153.81	7.0	U	7.0	5.6
540-84-1	2,2,4-Trimethylpentane	114.23	35	U	35	6.9
71-43-2	Benzene	78.11	14	J	35	7.4
107-06-2	1,2-Dichloroethane	98.96	32	J	35	7.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 Lab Sample ID: 200-29972-9

Matrix: Air Lab File ID: 15991_013.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 20:23

Soil Aliquot Vol: Dilution Factor: 176

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	35	U	35	7.0
79-01-6	Trichloroethene	131.39	460		7.0	6.9
80-62-6	Methyl methacrylate	100.12	88	U	88	7.0
78-87-5	1,2-Dichloropropane	112.99	35	U	35	4.8
123-91-1	1,4-Dioxane	88.11	880	U	880	99
75-27-4	Bromodichloromethane	163.83	35	U	35	5.3
10061-01-5	cis-1,3-Dichloropropene	110.97	35	U	35	4.0
108-10-1	methyl isobutyl ketone	100.16	88	U	88	8.8
108-88-3	Toluene	92.14	35	U	35	16
10061-02-6	trans-1,3-Dichloropropene	110.97	35	U	35	6.0
79-00-5	1,1,2-Trichloroethane	133.41	35	U	35	6.9
127-18-4	Tetrachloroethene	165.83	35	U	35	4.0
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	88	U	88	10
124-48-1	Dibromochloromethane	208.29	35	U	35	7.7
106-93-4	1,2-Dibromoethane	187.87	35	U	35	6.9
108-90-7	Chlorobenzene	112.56	35	U	35	8.6
100-41-4	Ethylbenzene	106.17	35	U	35	5.8
179601-23-1	m,p-Xylene	106.17	88	U	88	12
95-47-6	Xylene, o-	106.17	35	U	35	6.5
1330-20-7	Xylene (total)	106.17	120	U	120	6.5
100-42-5	Styrene	104.15	35	U	35	7.6
75-25-2	Bromoform	252.75	35	U	35	9.9
98-82-8	Cumene	120.19	35	U	35	5.3
79-34-5	1,1,2,2-Tetrachloroethane	167.85	35	U	35	7.7
103-65-1	n-Propylbenzene	120.19	35	U	35	7.6
622-96-8	4-Ethyltoluene	120.20	35	U	35	7.7
108-67-8	1,3,5-Trimethylbenzene	120.20	35	U	35	6.9
95-49-8	2-Chlorotoluene	126.59	35	U	35	5.8
98-06-6	tert-Butylbenzene	134.22	35	U	35	7.7
95-63-6	1,2,4-Trimethylbenzene	120.20	35	U	35	7.6
135-98-8	sec-Butylbenzene	134.22	35	U	35	7.7
99-87-6	4-Isopropyltoluene	134.22	35	U	35	6.5
541-73-1	1,3-Dichlorobenzene	147.00	35	U	35	9.7
106-46-7	1,4-Dichlorobenzene	147.00	35	U	35	10

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 Lab Sample ID: 200-29972-9

Matrix: Air Lab File ID: 15991_013.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 20:23

Soil Aliquot Vol: Dilution Factor: 176

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	35	U	35	9.3
104-51-8	n-Butylbenzene	134.22	35	U	35	8.3
95-50-1	1,2-Dichlorobenzene	147.00	35	U	35	9.7
120-82-1	1,2,4-Trichlorobenzene	181.45	88	U	88	12
87-68-3	Hexachlorobutadiene	260.76	35	U	35	14
91-20-3	Naphthalene	128.17	88	U	88	10

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 | Lab Sample ID: 200-29972-9

Matrix: Air | Lab File ID: 15991_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 20:23

Soil Aliquot Vol: | Dilution Factor: 176

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	440	U	440	70
75-45-6	Freon 22	86.47	310	U	310	35
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	250	U	250	47
74-87-3	Chloromethane	50.49	180	U	180	34
106-97-8	n-Butane	58.12	59	J	210	33
75-01-4	Vinyl chloride	62.50	18	U	18	14
106-99-0	1,3-Butadiene	54.09	78	U	78	35
74-83-9	Bromomethane	94.94	140	U	140	38
75-00-3	Chloroethane	64.52	230	U	230	39
593-60-2	Bromoethene(Vinyl Bromide)	106.96	150	U	150	34
75-69-4	Trichlorofluoromethane	137.37	410		200	38
76-13-1	Freon TF	187.38	270	U	270	100
75-35-4	*1,1-Dichloroethene*	*96.94*	*67000*	*E*	*140*	*25*
67-64-1	Acetone	58.08	2100	U	2100	360
67-63-0	Isopropyl alcohol	60.10	2200	U	2200	420
75-15-0	Carbon disulfide	76.14	270	U	270	24
107-05-1	3-Chloropropene	76.53	280	U	280	37
75-09-2	Methylene Chloride	84.93	310	U	310	110
75-65-0	tert-Butyl alcohol	74.12	2700	U	2700	450
1634-04-4	Methyl tert-butyl ether	88.15	130	U	130	56
156-60-5	trans-1,2-Dichloroethene	96.94	140	U	140	30
110-54-3	n-Hexane	86.17	120	U	120	33
75-34-3	1,1-Dichloroethane	98.96	17000		140	18
78-93-3	Methyl Ethyl Ketone	72.11	260	U	260	27
156-59-2	cis-1,2-Dichloroethene	96.94	140	U	140	24
540-59-0	1,2-Dichloroethene, Total	96.94	280	U	280	24
67-66-3	Chloroform	119.38	170	U	170	70
109-99-9	Tetrahydrofuran	72.11	2600	U	2600	730
71-55-6	1,1,1-Trichloroethane	133.41	190		190	44
110-82-7	Cyclohexane	84.16	120	U	120	24
56-23-5	Carbon tetrachloride	153.81	44	U	44	35
540-84-1	2,2,4-Trimethylpentane	114.23	160	U	160	32
71-43-2	Benzene	78.11	44	J	110	24
107-06-2	1,2-Dichloroethane	98.96	130	J	140	29

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 | Lab Sample ID: 200-29972-9

Matrix: Air | Lab File ID: 15991_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 20:23

Soil Aliquot Vol: | Dilution Factor: 176

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	140	U	140	29
79-01-6	Trichloroethene	131.39	2400		38	37
80-62-6	Methyl methacrylate	100.12	360	U	360	29
78-87-5	1,2-Dichloropropane	112.99	160	U	160	22
123-91-1	1,4-Dioxane	88.11	3200	U	3200	360
75-27-4	Bromodichloromethane	163.83	240	U	240	35
10061-01-5	cis-1,3-Dichloropropene	110.97	160	U	160	18
108-10-1	methyl isobutyl ketone	100.16	360	U	360	36
108-88-3	Toluene	92.14	130	U	130	62
10061-02-6	trans-1,3-Dichloropropene	110.97	160	U	160	27
79-00-5	1,1,2-Trichloroethane	133.41	190	U	190	37
127-18-4	Tetrachloroethene	165.83	240	U	240	27
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	360	U	360	41
124-48-1	Dibromochloromethane	208.29	300	U	300	66
106-93-4	1,2-Dibromoethane	187.87	270	U	270	53
108-90-7	Chlorobenzene	112.56	160	U	160	40
100-41-4	Ethylbenzene	106.17	150	U	150	25
179601-23-1	m,p-Xylene	106.17	380	U	380	54
95-47-6	Xylene, o-	106.17	150	U	150	28
1330-20-7	Xylene (total)	106.17	530	U	530	28
100-42-5	Styrene	104.15	150	U	150	32
75-25-2	Bromoform	252.75	360	U	360	100
98-82-8	Cumene	120.19	170	U	170	26
79-34-5	1,1,2,2-Tetrachloroethane	167.85	240	U	240	53
103-65-1	n-Propylbenzene	120.19	170	U	170	37
622-96-8	4-Ethyltoluene	120.20	170	U	170	38
108-67-8	1,3,5-Trimethylbenzene	120.20	170	U	170	34
95-49-8	2-Chlorotoluene	126.59	180	U	180	30
98-06-6	tert-Butylbenzene	134.22	190	U	190	43
95-63-6	1,2,4-Trimethylbenzene	120.20	170	U	170	37
135-98-8	sec-Butylbenzene	134.22	190	U	190	43
99-87-6	4-Isopropyltoluene	134.22	190	U	190	36
541-73-1	1,3-Dichlorobenzene	147.00	210	U	210	58
106-46-7	1,4-Dichlorobenzene	147.00	210	U	210	60

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 Lab Sample ID: 200-29972-9

Matrix: Air Lab File ID: 15991_013.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 20:23

Soil Aliquot Vol: Dilution Factor: 176

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	180	U	180	48
104-51-8	n-Butylbenzene	134.22	190	U	190	45
95-50-1	1,2-Dichlorobenzene	147.00	210	U	210	58
120-82-1	1,2,4-Trichlorobenzene	181.45	650	U	650	89
87-68-3	Hexachlorobutadiene	260.76	380	U	380	150
91-20-3	Naphthalene	128.17	460	U	460	53

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d
Lims ID: 200-29972-A-9 Lab Sample ID: 200-29972-9
Client ID: FR-SS05-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 20:23:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 200.000 mL Dil. Factor: 176.0000
Sample Info: 200-0015991-013
Misc. Info.: 29972-09
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:56:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85		4.426				ND	
3 Chlorodifluoromethane	51		4.495				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50		5.009				ND	
6 Butane	43	5.287	5.282	0.005	93	2134	0.1408	
7 Vinyl chloride	62	5.351	5.346	0.005	1	283	0.0232	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.298	7.288	0.010	98	24919	0.4120	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.673	8.663	0.010	96	1666411	96.0	E
22 Acetone	43	8.973	8.935	0.038	96	6849	0.3649	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.251	9.219	0.032	92	2555	0.1707	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49		9.925				ND	
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57		10.851				ND	
34 1,1-Dichloroethane	63	11.428	11.428	0.000	99	645417	23.9	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72		12.653				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	70	167777	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	93	9598	0.1980	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117		13.782				ND	
	46 Isooctane	57		14.183				ND	
	47 Benzene	78	14.253	14.253	0.000	91	4176	0.0790	
	48 1,2-Dichloroethane	62	14.408	14.419	-0.011	96	4549	0.1793	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	781045	10.0	
	53 Trichloroethene	95	15.484	15.478	0.006	95	70281	2.59	
	54 1,2-Dichloropropane	63		16.013				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.859				ND	
	68 Tetrachloroethene	166		18.987				ND	
	69 2-Hexanone	43		19.260				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	745275	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.973				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.482				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.920				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128		28.767				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

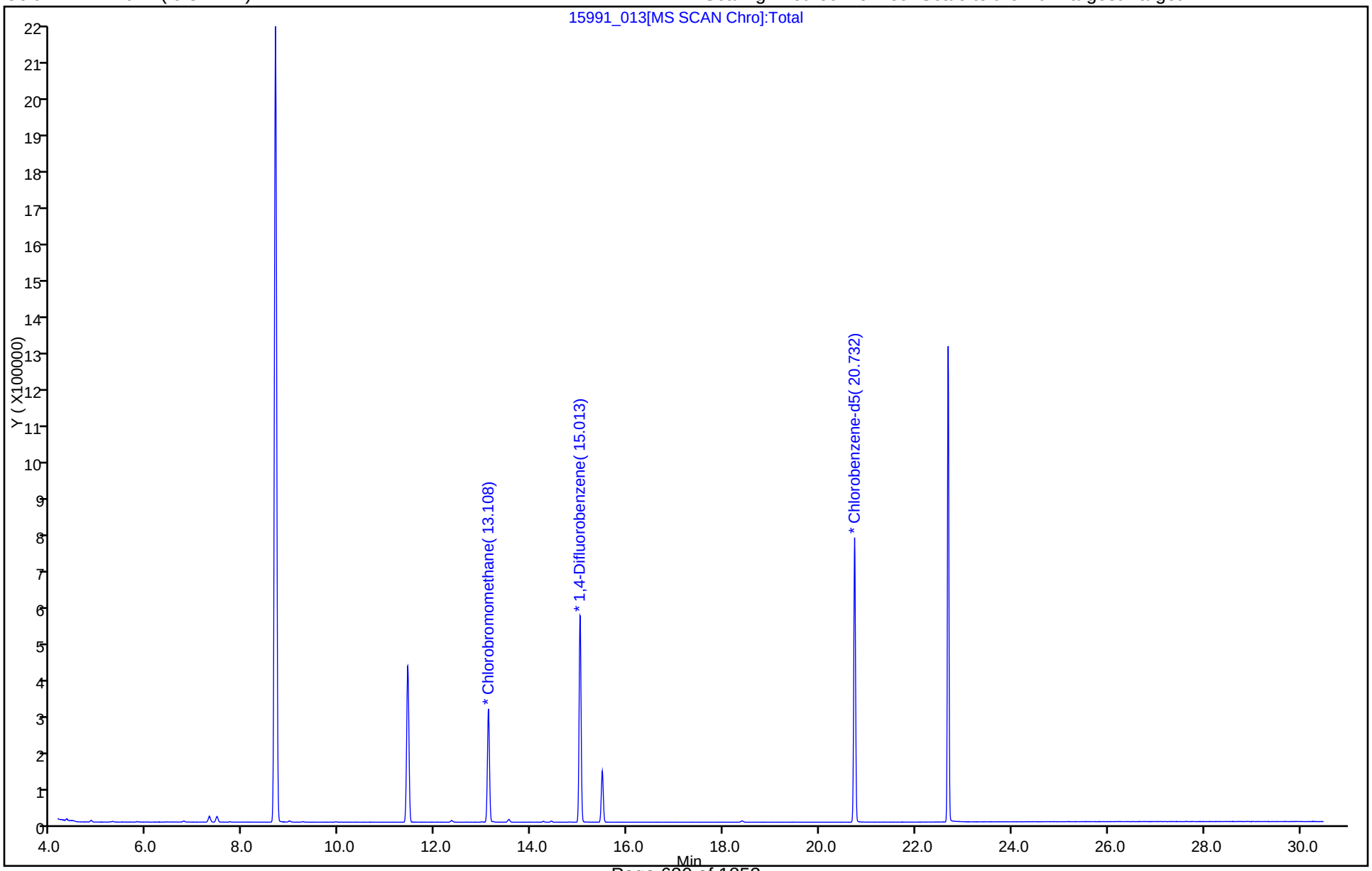
Report Date: 30-Sep-2015 14:17:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9	Worklist Smp#:	13
Client ID:	FR-SS05-092315				
Purge Vol:	200.000 mL	Dil. Factor:	176.0000	ALS Bottle#:	12
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



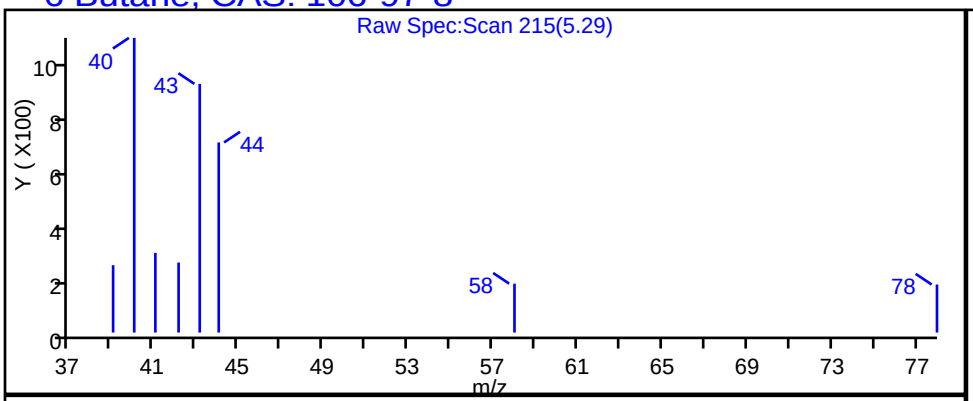
Report Date: 30-Sep-2015 14:17:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

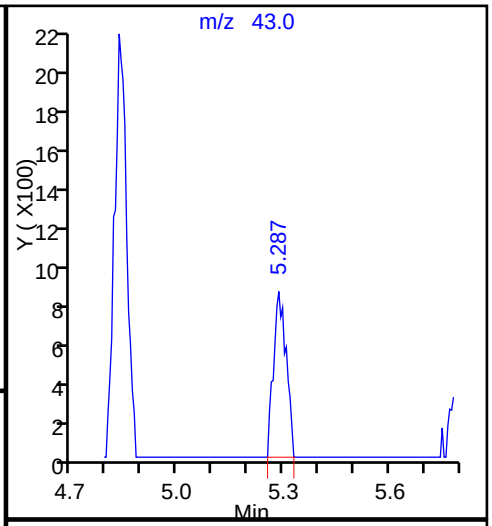
TestAmerica Burlington

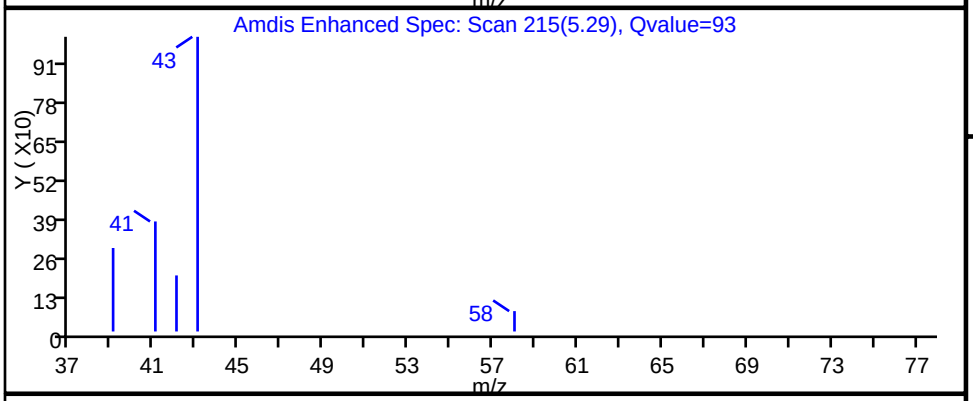
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

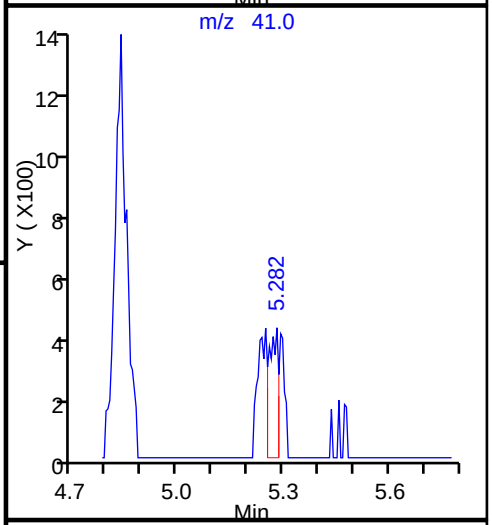
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

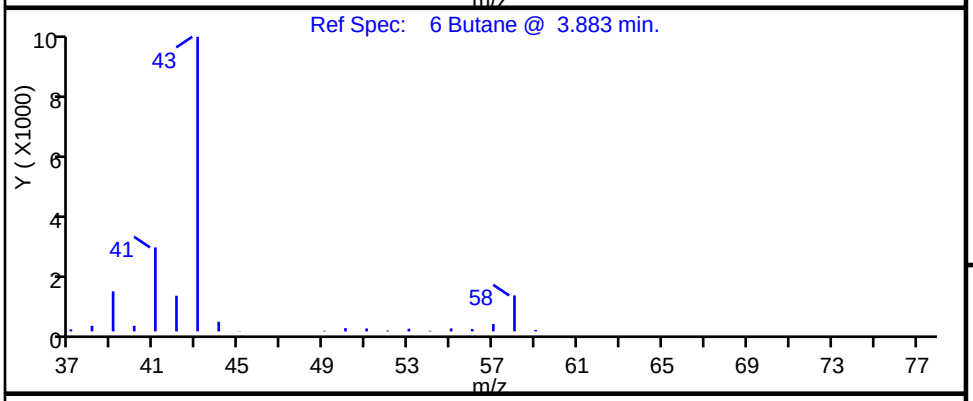
6 Butane, CAS: 106-97-8

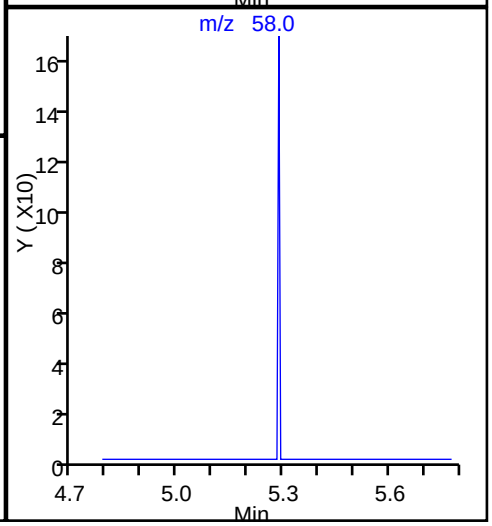


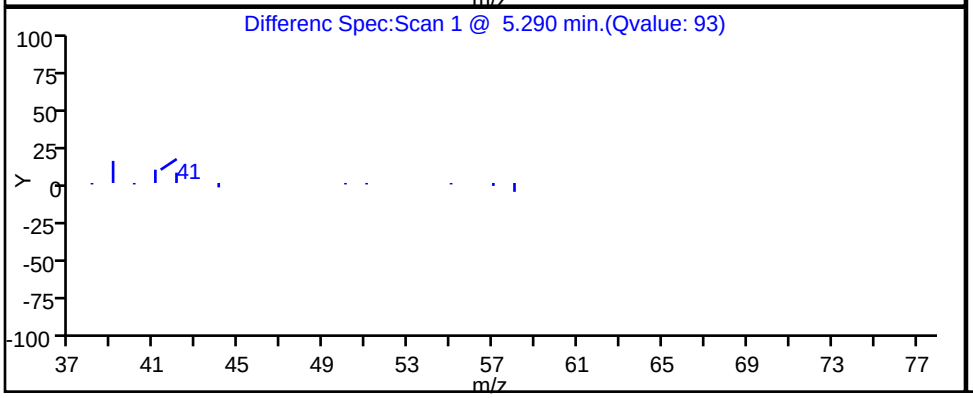










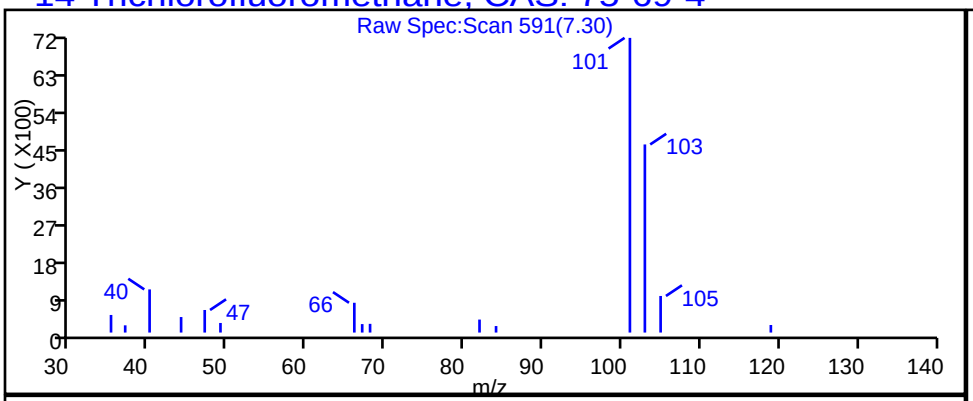


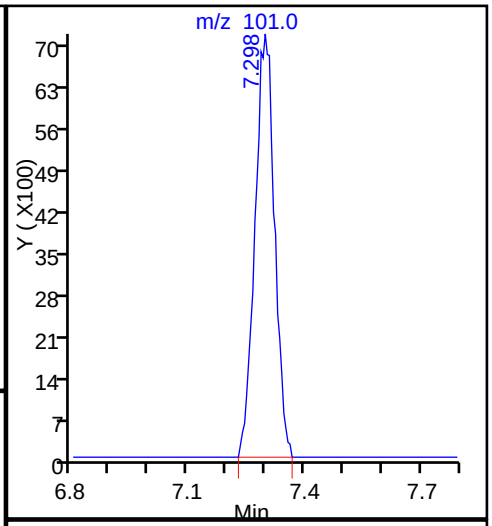
Report Date: 30-Sep-2015 14:17:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

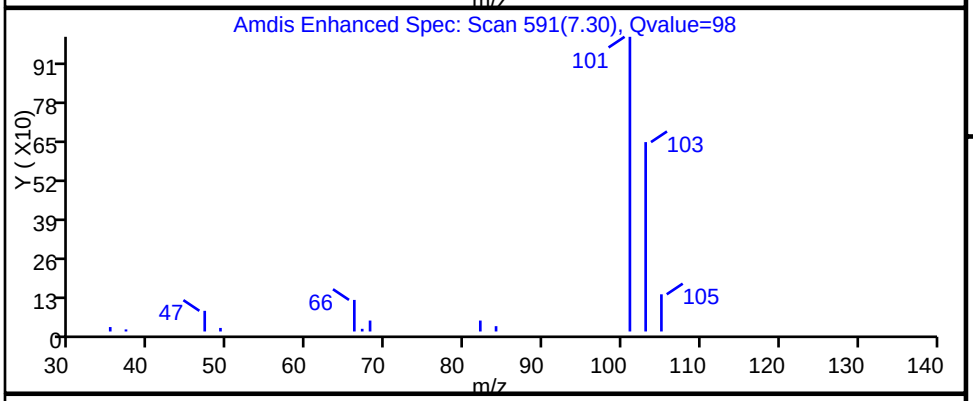
TestAmerica Burlington

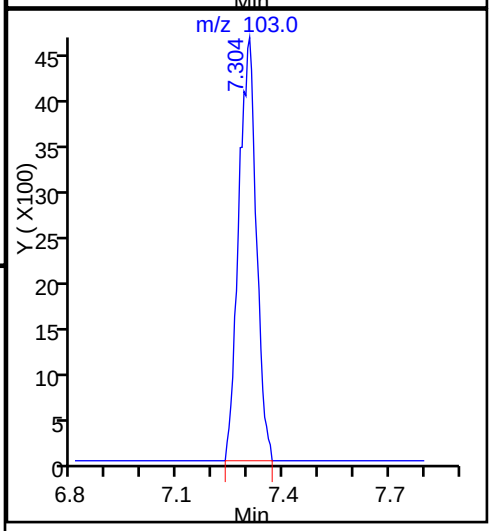
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d				
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

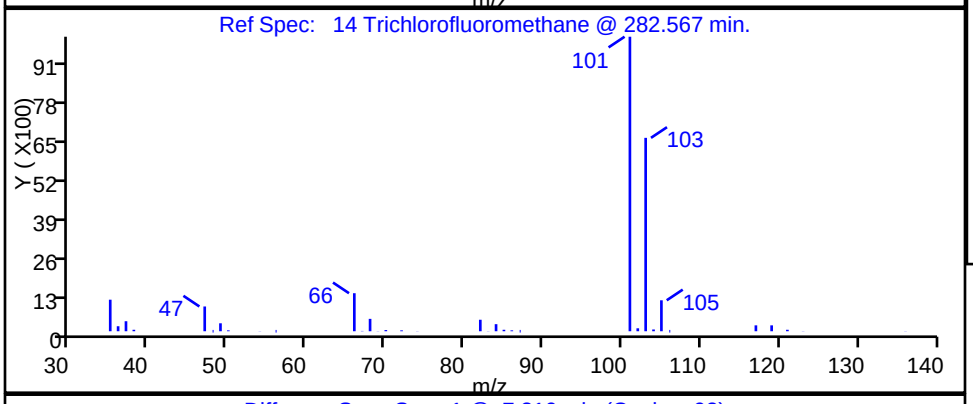
14 Trichlorofluoromethane, CAS: 75-69-4

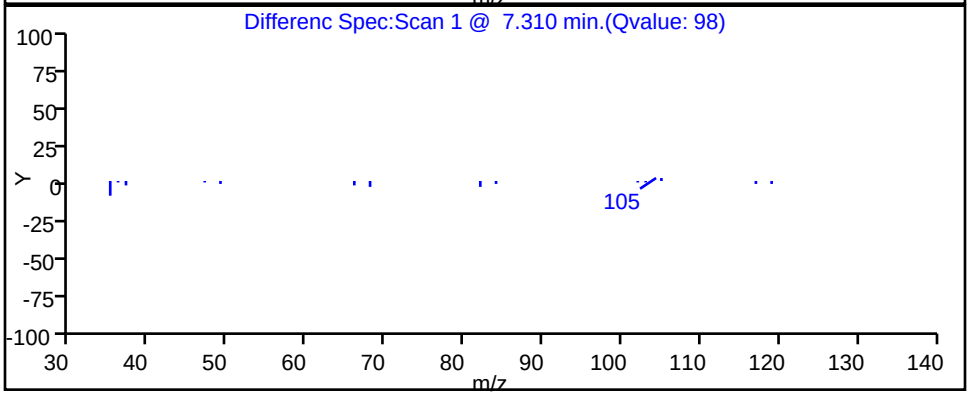












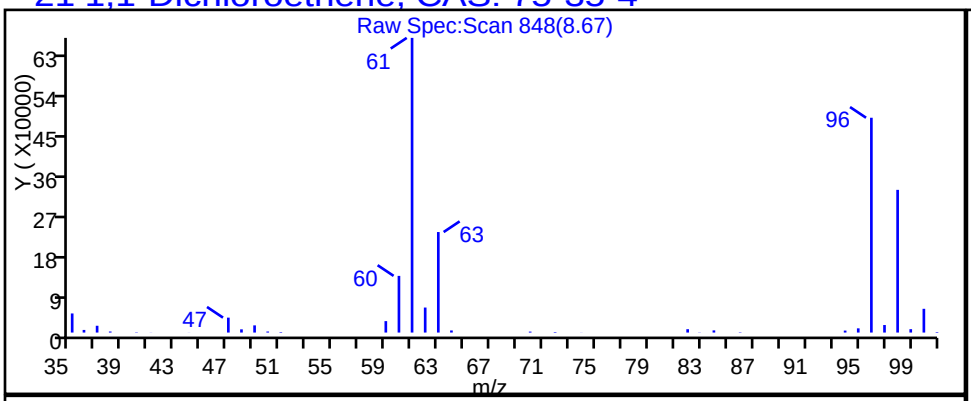
Report Date: 30-Sep-2015 14:17:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

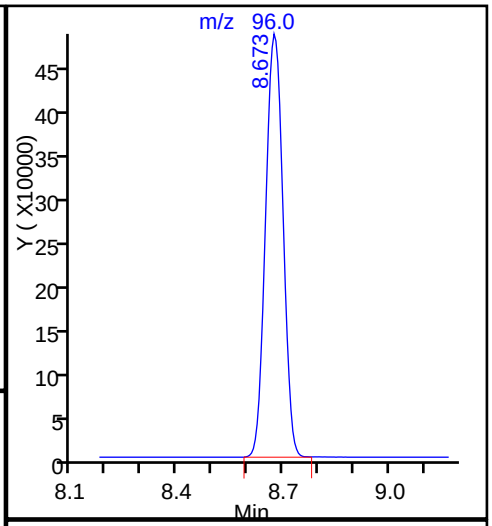
TestAmerica Burlington

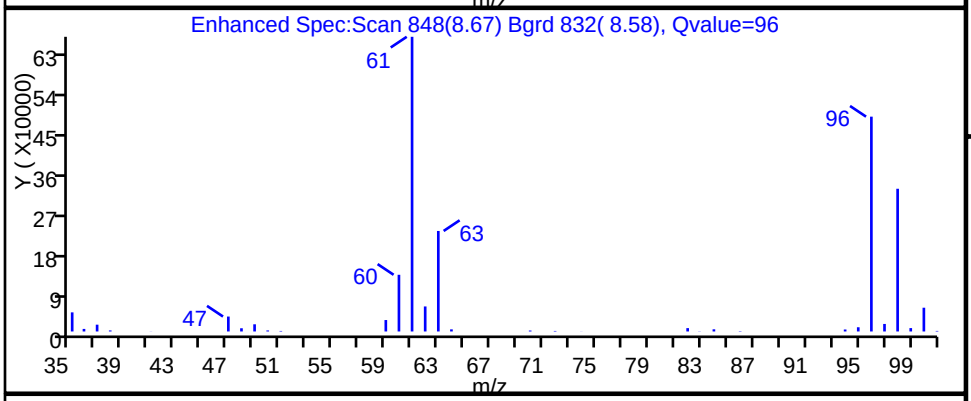
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

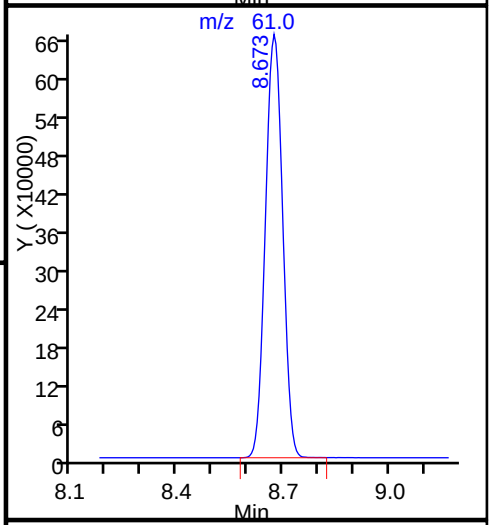
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

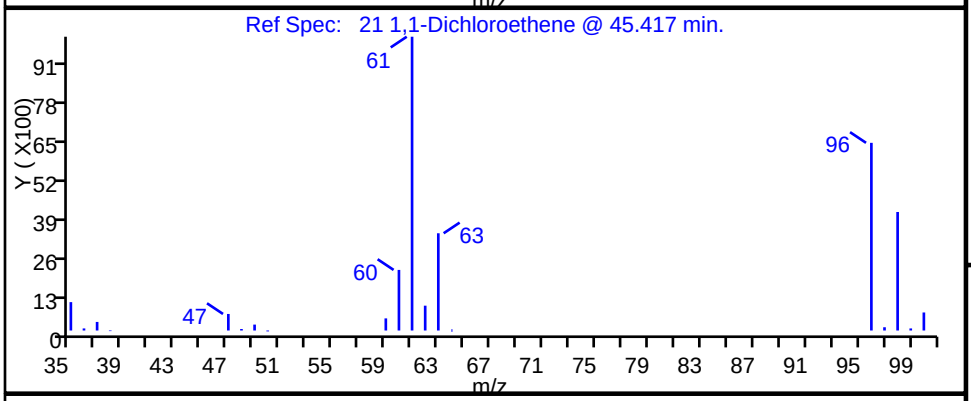
21 1,1-Dichloroethene, CAS: 75-35-4

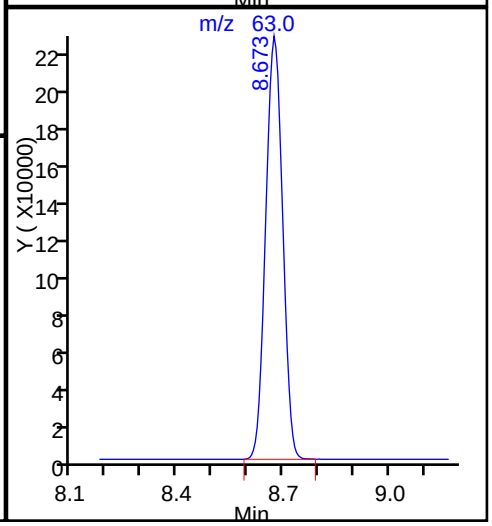


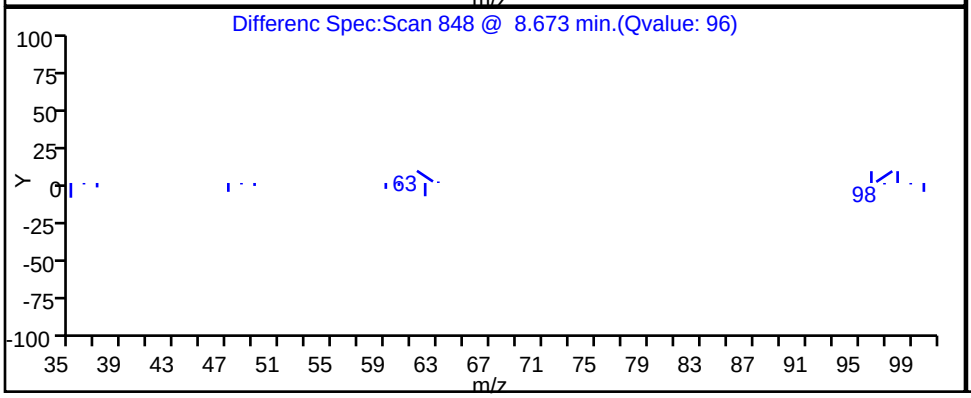












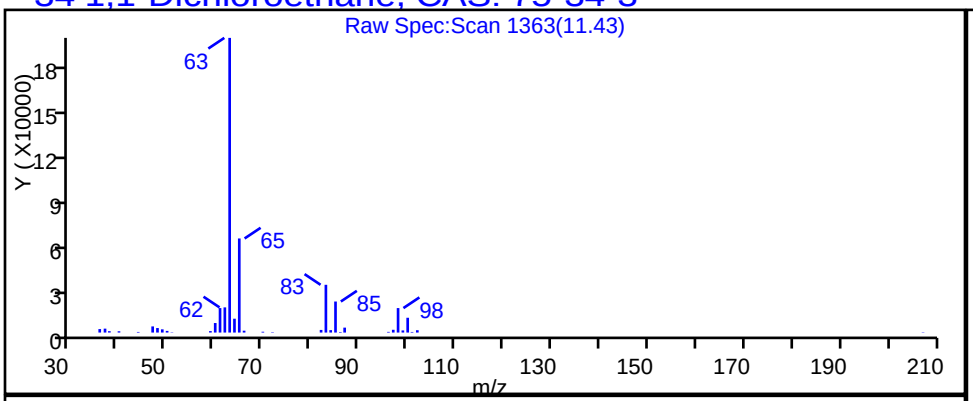
Report Date: 30-Sep-2015 14:17:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

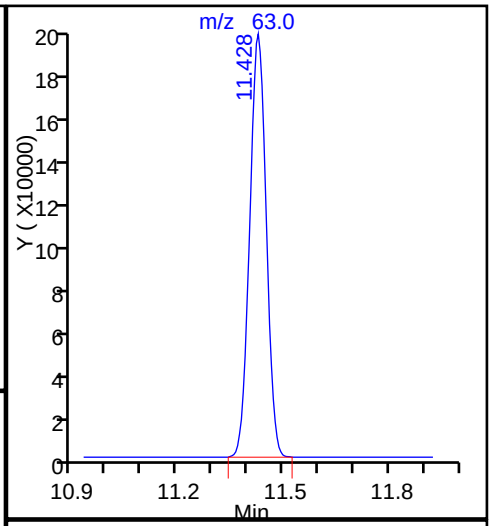
TestAmerica Burlington

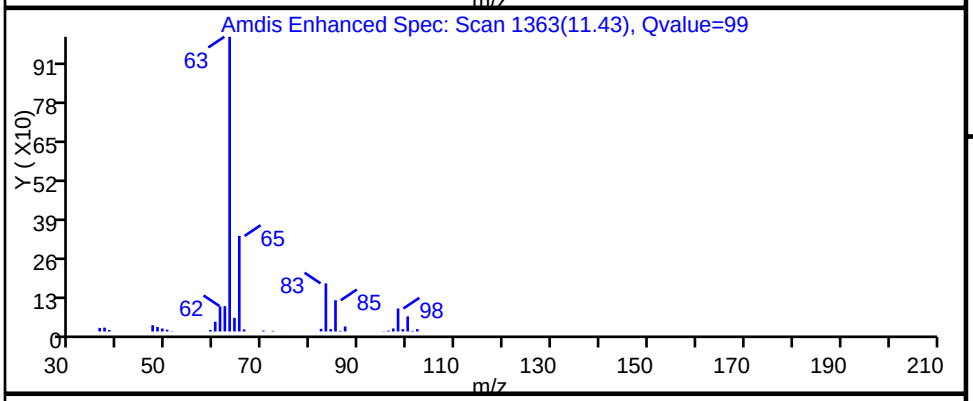
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

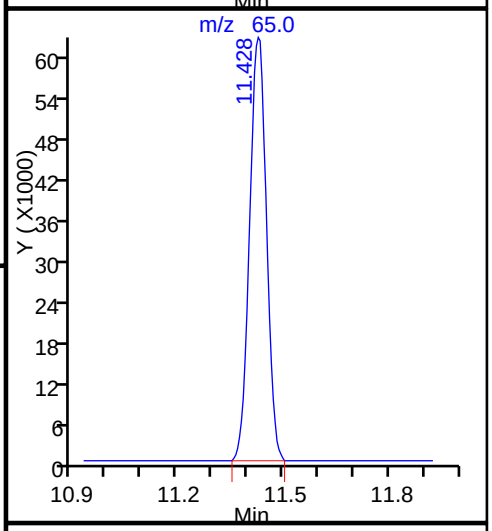
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

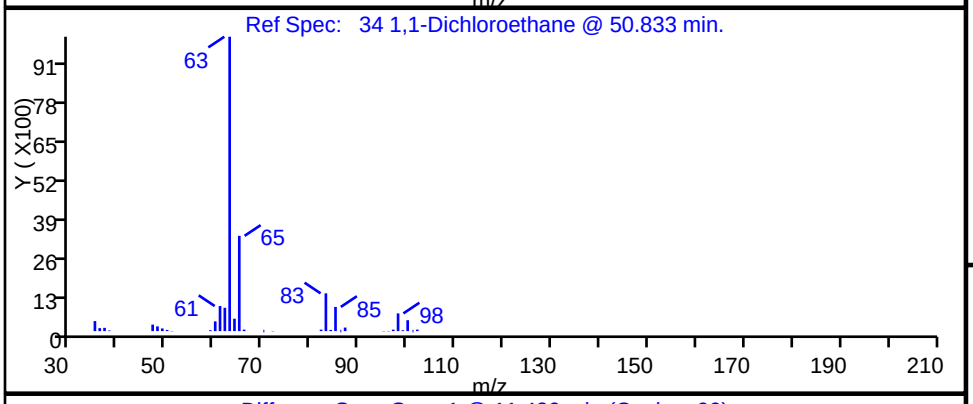
34 1,1-Dichloroethane, CAS: 75-34-3

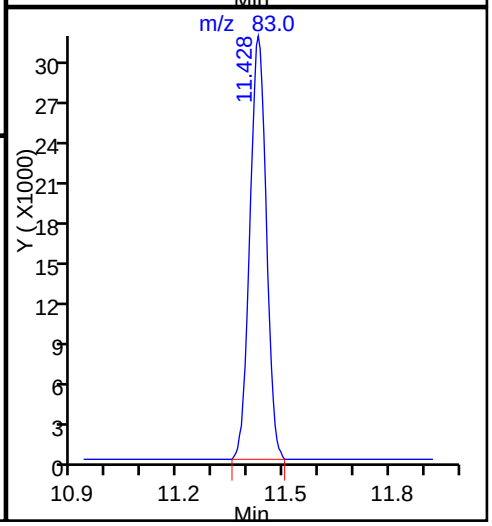


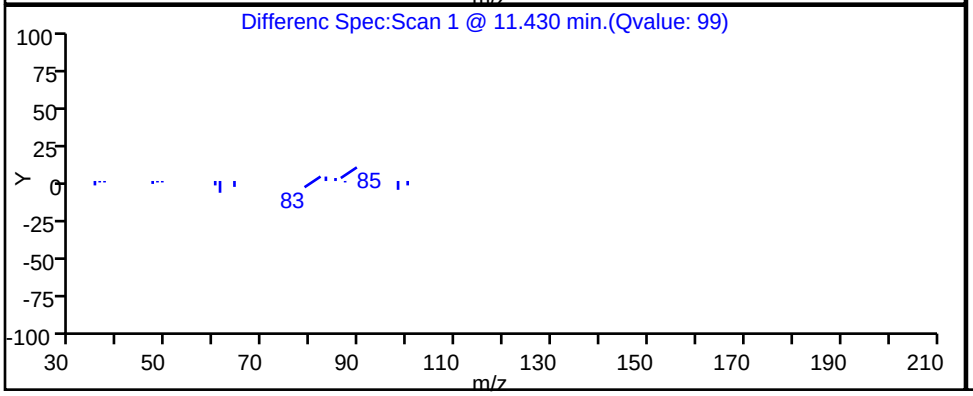












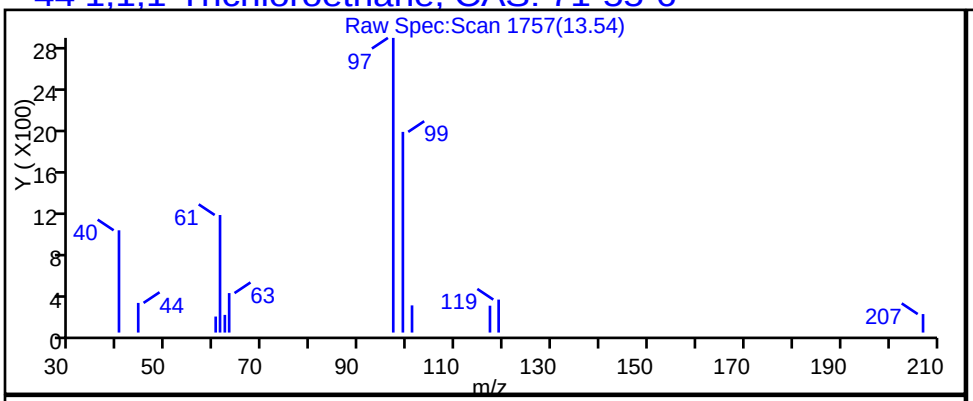
Report Date: 30-Sep-2015 14:17:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

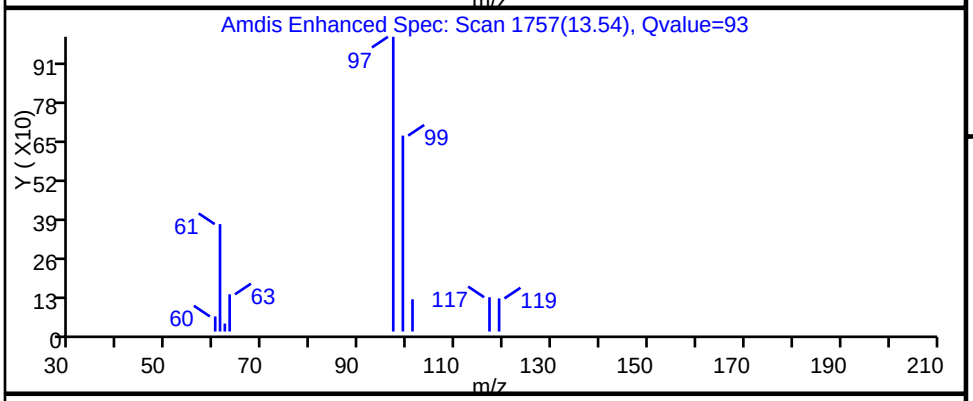
TestAmerica Burlington

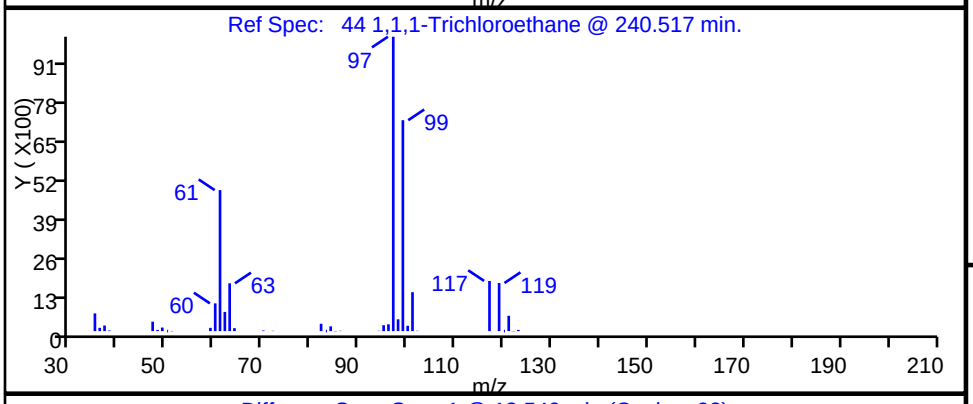
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

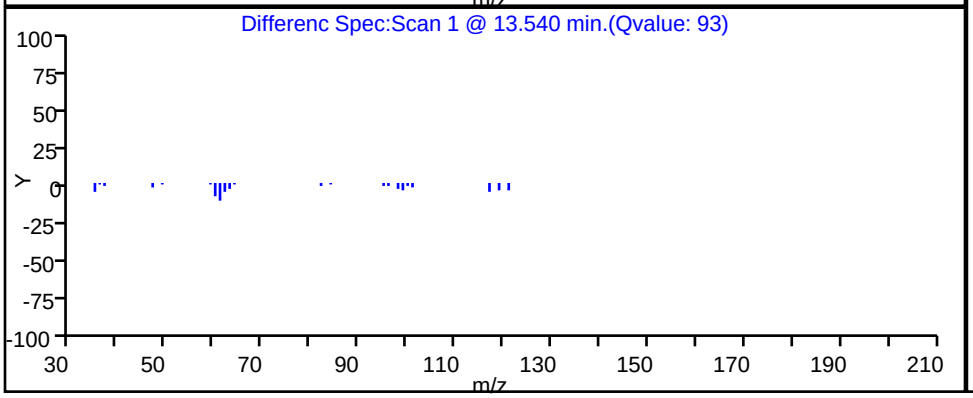
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

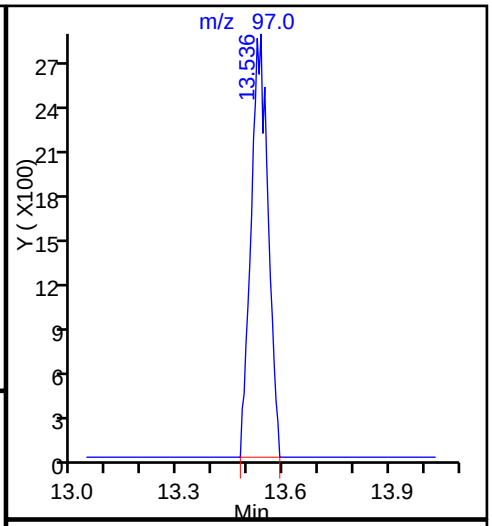
44 1,1,1-Trichloroethane, CAS: 71-55-6

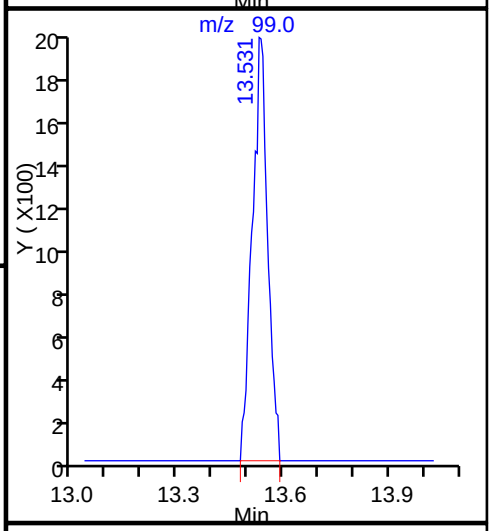


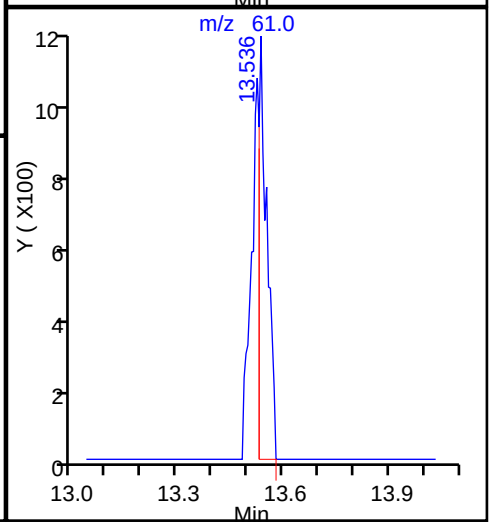












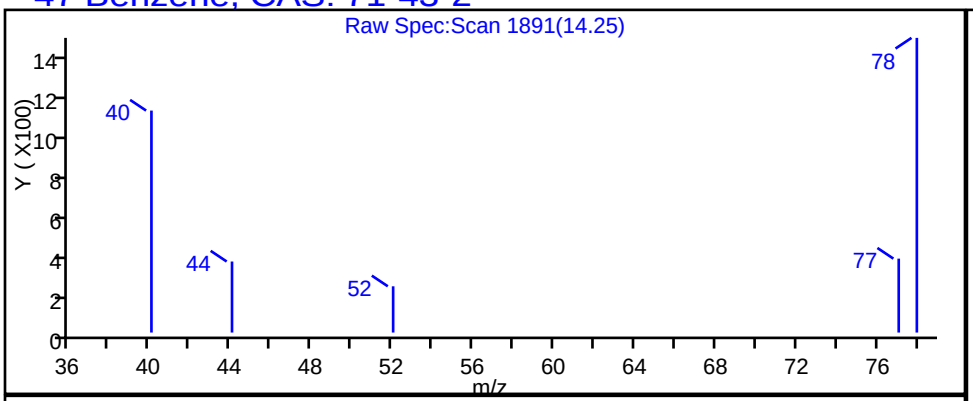
Report Date: 30-Sep-2015 14:17:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

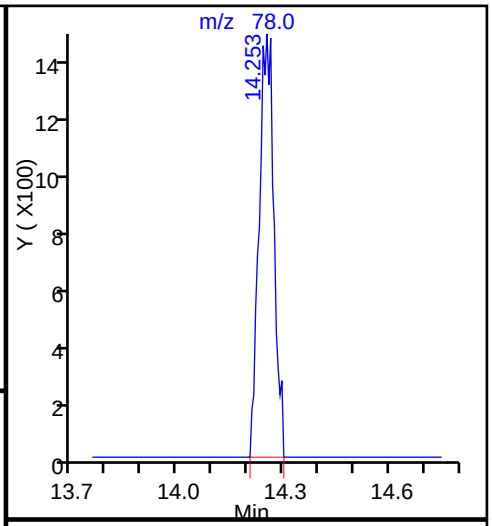
TestAmerica Burlington

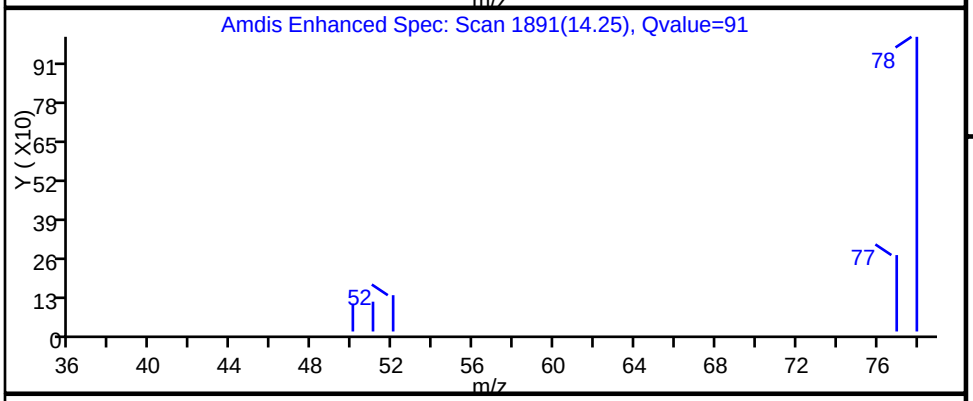
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

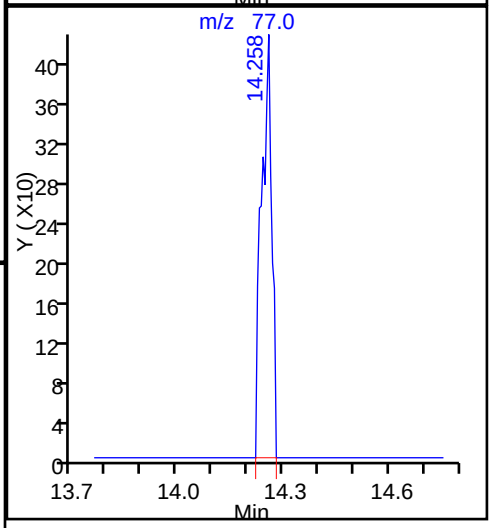
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

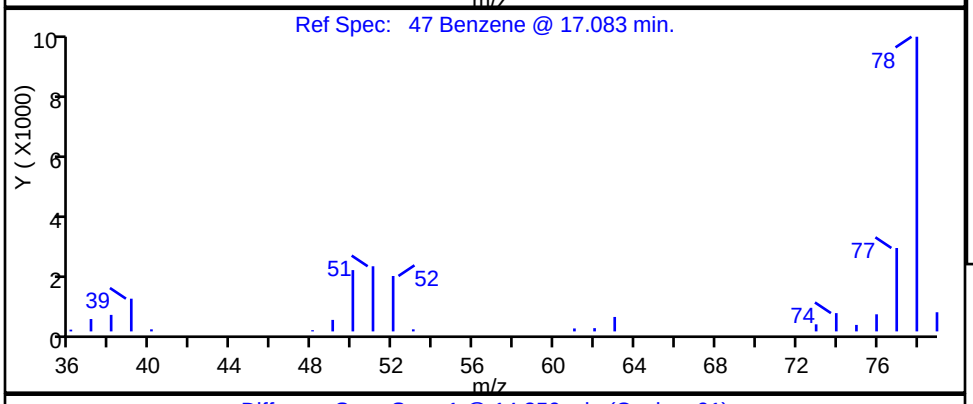
47 Benzene, CAS: 71-43-2

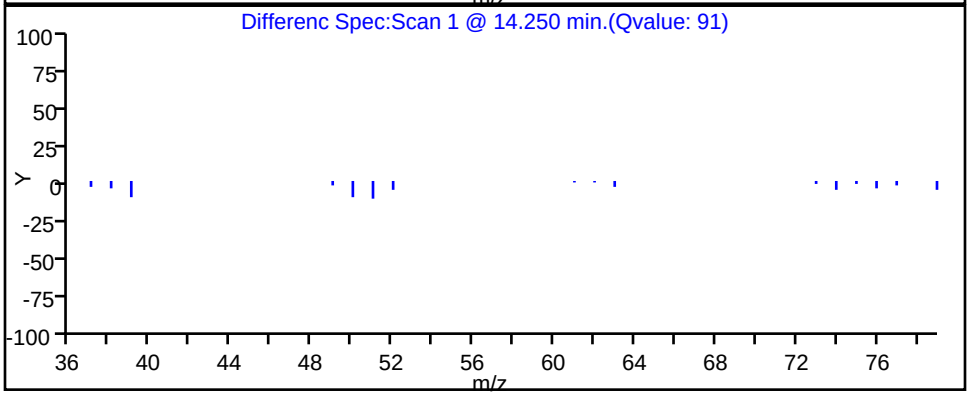












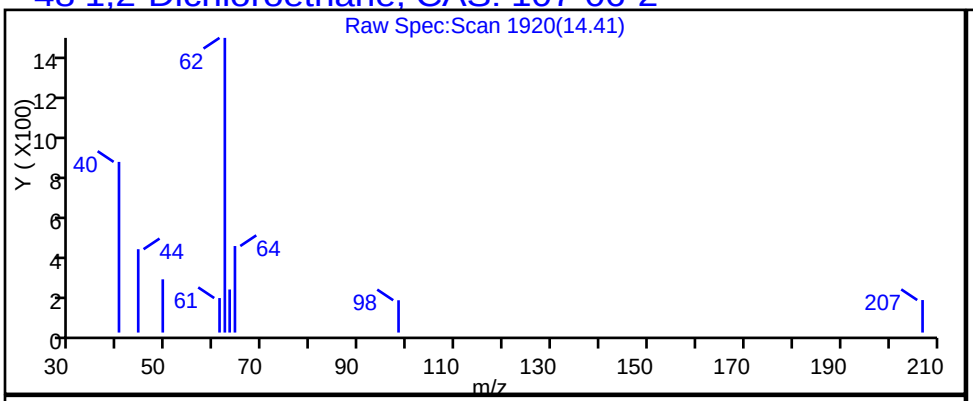
Report Date: 30-Sep-2015 14:17:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

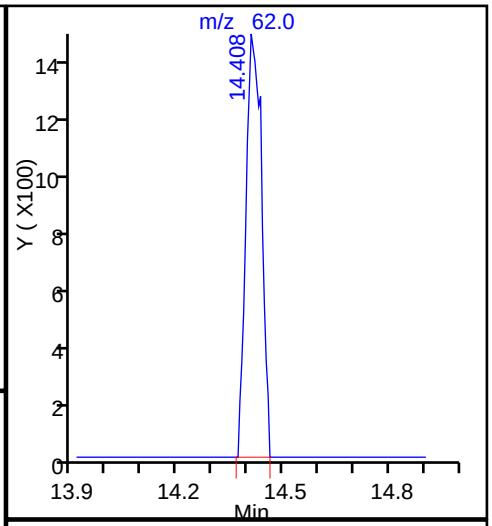
TestAmerica Burlington

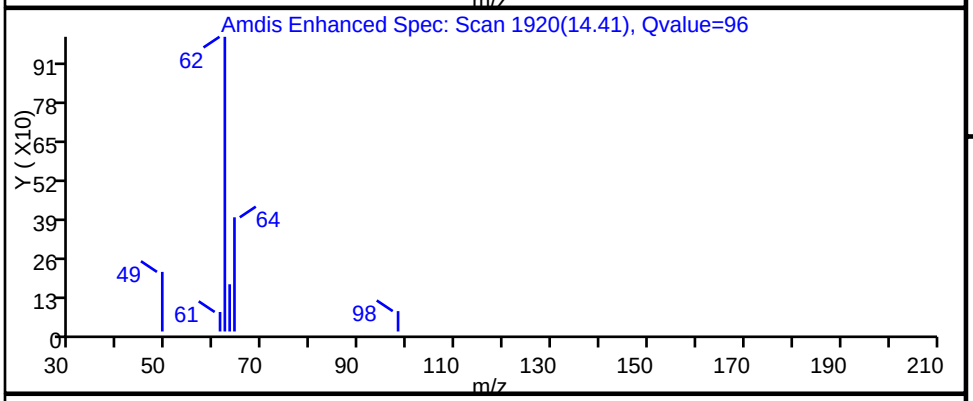
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

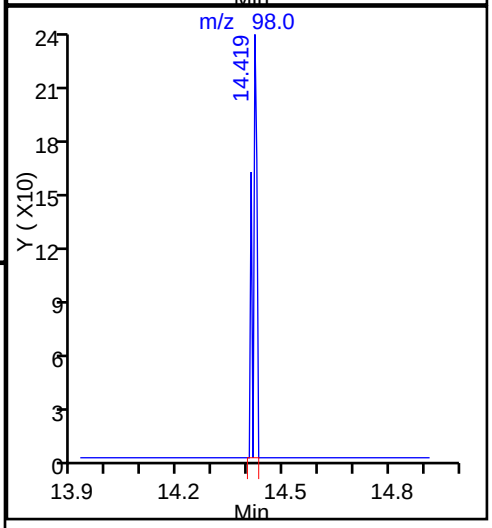
Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

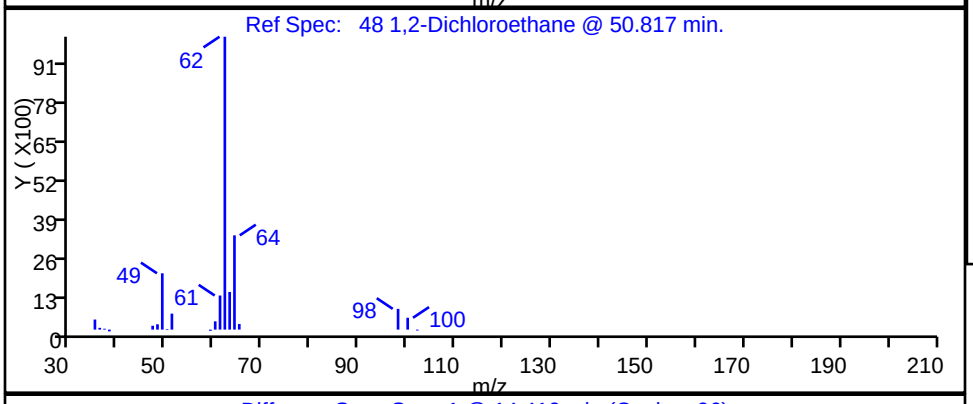
48 1,2-Dichloroethane, CAS: 107-06-2

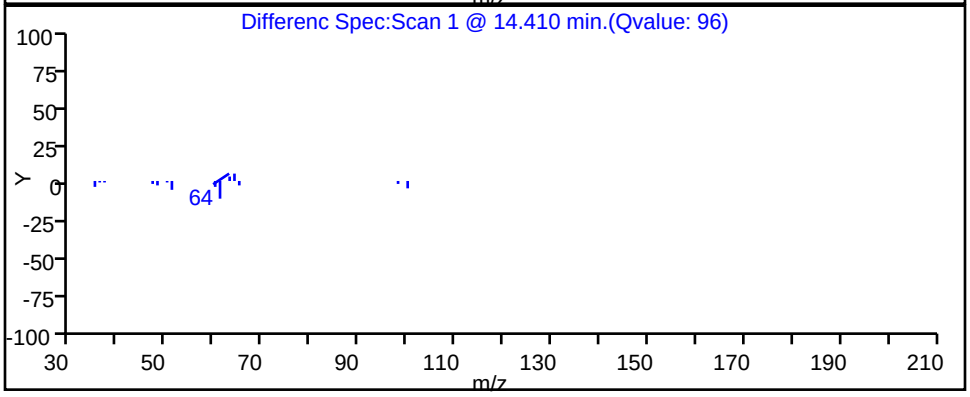












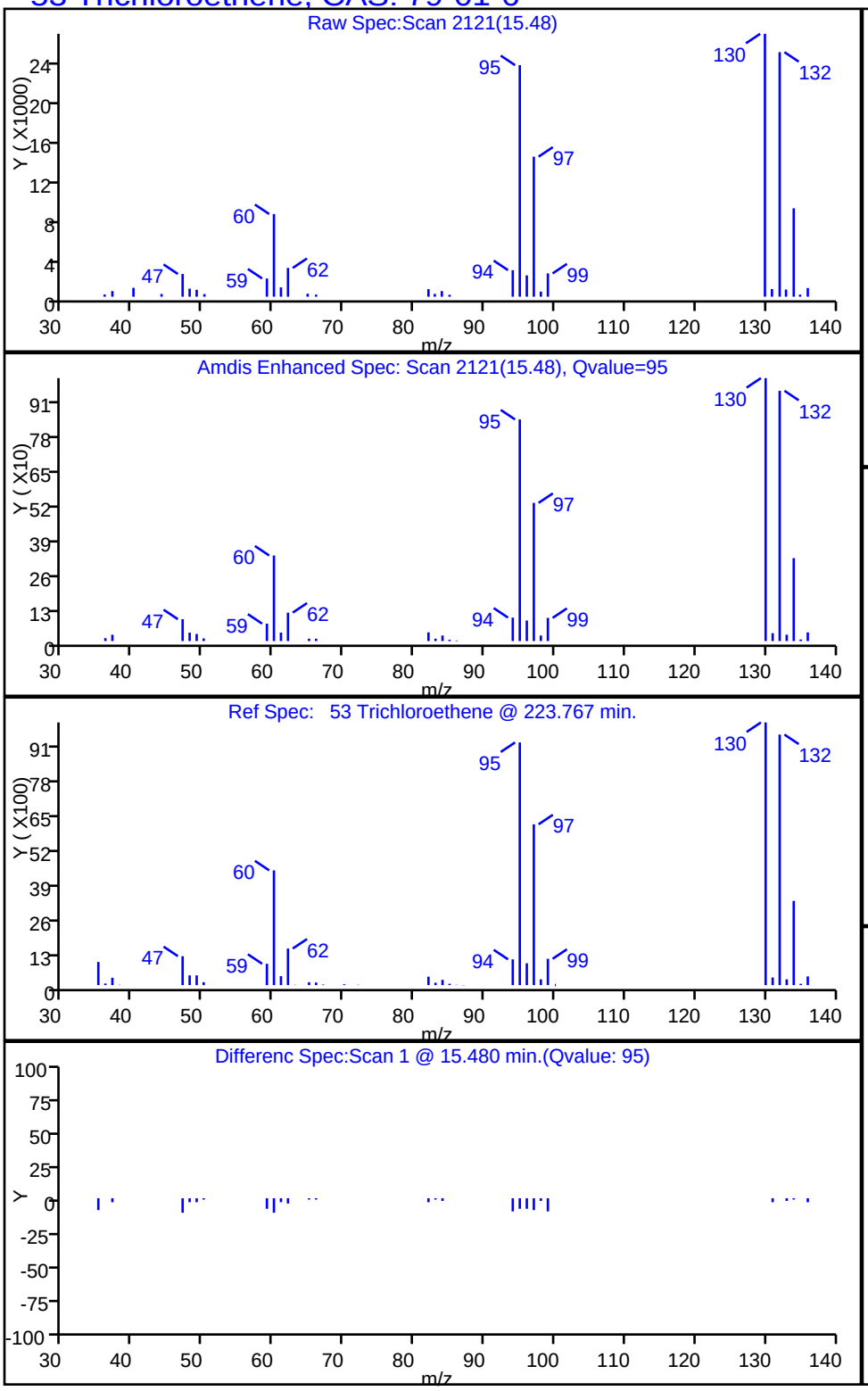
Report Date: 30-Sep-2015 14:17:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

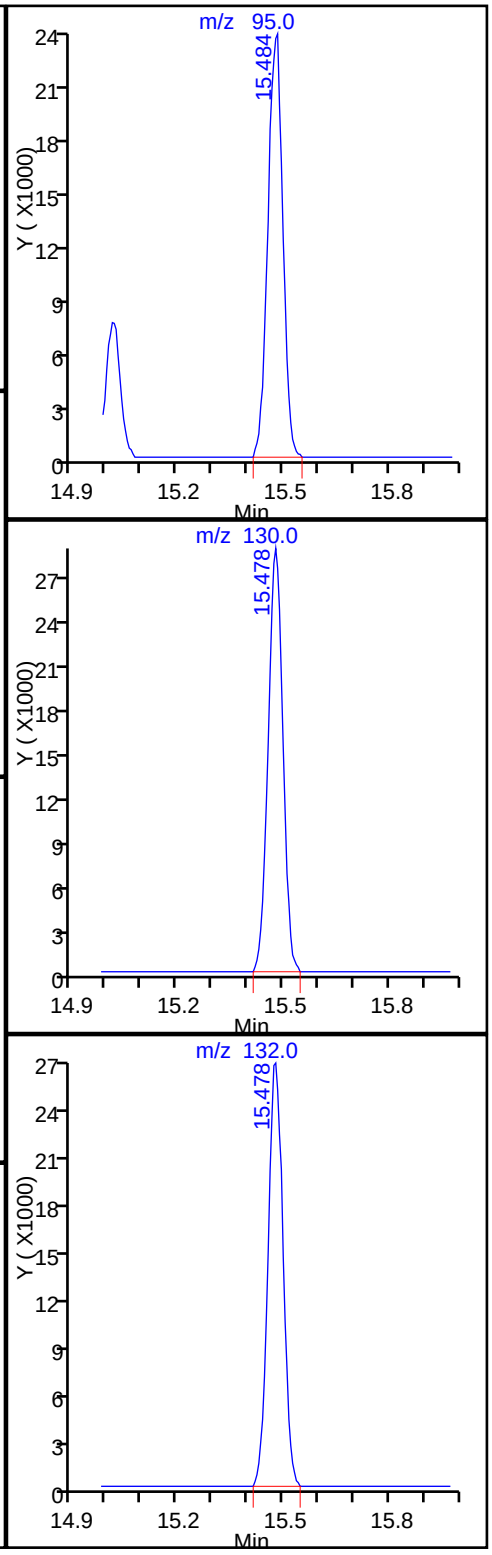
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_013.d

Injection Date:	29-Sep-2015 20:23:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	176.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6





FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 DL | Lab Sample ID: 200-29972-9 DL

Matrix: Air | Lab File ID: 15991_014.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 38(mL) | Date Analyzed: 09/29/2015 21:11

Soil Aliquot Vol: | Dilution Factor: 927

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	460	U	460	74
75-45-6	Freon 22	86.47	460	U	460	53
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	190	U	190	35
74-87-3	Chloromethane	50.49	460	U	460	86
106-97-8	n-Butane	58.12	460	U	460	72
75-01-4	Vinyl chloride	62.50	37	U	37	30
106-99-0	1,3-Butadiene	54.09	190	U	190	83
74-83-9	Bromomethane	94.94	190	U	190	52
75-00-3	Chloroethane	64.52	460	U	460	79
593-60-2	Bromoethene(Vinyl Bromide)	106.96	190	U	190	41
75-69-4	Trichlorofluoromethane	137.37	78	J D	190	35
76-13-1	Freon TF	187.38	190	U	190	70
75-35-4	1,1-Dichloroethene	96.94	19000	D	190	33
67-64-1	Acetone	58.08	4600	U	4600	800
67-63-0	Isopropyl alcohol	60.10	4600	U	4600	910
75-15-0	Carbon disulfide	76.14	460	U	460	40
107-05-1	3-Chloropropene	76.53	460	U	460	63
75-09-2	Methylene Chloride	84.93	460	U	460	170
75-65-0	tert-Butyl alcohol	74.12	4600	U	4600	790
1634-04-4	Methyl tert-butyl ether	88.15	190	U	190	83
156-60-5	trans-1,2-Dichloroethene	96.94	190	U	190	40
110-54-3	n-Hexane	86.17	190	U	190	50
75-34-3	1,1-Dichloroethane	98.96	4400	D	190	23
78-93-3	Methyl Ethyl Ketone	72.11	460	U	460	48
156-59-2	cis-1,2-Dichloroethene	96.94	190	U	190	32
540-59-0	1,2-Dichloroethene, Total	96.94	370	U	370	32
67-66-3	Chloroform	119.38	190	U	190	76
109-99-9	Tetrahydrofuran	72.11	4600	U	4600	1300
71-55-6	1,1,1-Trichloroethane	133.41	190	U	190	43
110-82-7	Cyclohexane	84.16	190	U	190	36
56-23-5	Carbon tetrachloride	153.81	37	U	37	30
540-84-1	2,2,4-Trimethylpentane	114.23	190	U	190	36
71-43-2	Benzene	78.11	190	U	190	39
107-06-2	1,2-Dichloroethane	98.96	190	U	190	38

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 DL | Lab Sample ID: 200-29972-9 DL

Matrix: Air | Lab File ID: 15991_014.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 38(mL) | Date Analyzed: 09/29/2015 21:11

Soil Aliquot Vol: | Dilution Factor: 927

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	190	U	190	37
79-01-6	Trichloroethene	131.39	450	D	37	36
80-62-6	Methyl methacrylate	100.12	460	U	460	37
78-87-5	1,2-Dichloropropane	112.99	190	U	190	25
123-91-1	1,4-Dioxane	88.11	4600	U	4600	520
75-27-4	Bromodichloromethane	163.83	190	U	190	28
10061-01-5	cis-1,3-Dichloropropene	110.97	190	U	190	21
108-10-1	methyl isobutyl ketone	100.16	460	U	460	46
108-88-3	Toluene	92.14	190	U	190	86
10061-02-6	trans-1,3-Dichloropropene	110.97	190	U	190	32
79-00-5	1,1,2-Trichloroethane	133.41	190	U	190	36
127-18-4	Tetrachloroethene	165.83	190	U	190	21
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	460	U	460	53
124-48-1	Dibromochloromethane	208.29	190	U	190	41
106-93-4	1,2-Dibromoethane	187.87	190	U	190	36
108-90-7	Chlorobenzene	112.56	190	U	190	45
100-41-4	Ethylbenzene	106.17	190	U	190	31
179601-23-1	m,p-Xylene	106.17	460	U	460	66
95-47-6	Xylene, o-	106.17	190	U	190	34
1330-20-7	Xylene (total)	106.17	650	U	650	34
100-42-5	Styrene	104.15	190	U	190	40
75-25-2	Bromoform	252.75	190	U	190	52
98-82-8	Cumene	120.19	190	U	190	28
79-34-5	1,1,2,2-Tetrachloroethane	167.85	190	U	190	41
103-65-1	n-Propylbenzene	120.19	190	U	190	40
622-96-8	4-Ethyltoluene	120.20	190	U	190	41
108-67-8	1,3,5-Trimethylbenzene	120.20	190	U	190	36
95-49-8	2-Chlorotoluene	126.59	190	U	190	31
98-06-6	tert-Butylbenzene	134.22	190	U	190	41
95-63-6	1,2,4-Trimethylbenzene	120.20	190	U	190	40
135-98-8	sec-Butylbenzene	134.22	190	U	190	41
99-87-6	4-Isopropyltoluene	134.22	190	U	190	34
541-73-1	1,3-Dichlorobenzene	147.00	190	U	190	51
106-46-7	1,4-Dichlorobenzene	147.00	190	U	190	53

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 DL Lab Sample ID: 200-29972-9 DL

Matrix: Air Lab File ID: 15991_014.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 38(mL) Date Analyzed: 09/29/2015 21:11

Soil Aliquot Vol: Dilution Factor: 927

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*190*	*U*	*190*	*49*
104-51-8	*n-Butylbenzene*	*134.22*	*190*	*U*	*190*	*44*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*190*	*U*	*190*	*51*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*460*	*U*	*460*	*63*
87-68-3	*Hexachlorobutadiene*	*260.76*	*190*	*U*	*190*	*76*
91-20-3	*Naphthalene*	*128.17*	*460*	*U*	*460*	*53*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 DL | Lab Sample ID: 200-29972-9 DL

Matrix: Air | Lab File ID: 15991_014.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 38(mL) | Date Analyzed: 09/29/2015 21:11

Soil Aliquot Vol: | Dilution Factor: 927

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2300	U	2300	370
75-45-6	Freon 22	86.47	1600	U	1600	190
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1300	U	1300	250
74-87-3	Chloromethane	50.49	960	U	960	180
106-97-8	n-Butane	58.12	1100	U	1100	170
75-01-4	Vinyl chloride	62.50	95	U	95	76
106-99-0	1,3-Butadiene	54.09	410	U	410	180
74-83-9	Bromomethane	94.94	720	U	720	200
75-00-3	Chloroethane	64.52	1200	U	1200	210
593-60-2	Bromoethene(Vinyl Bromide)	106.96	810	U	810	180
75-69-4	Trichlorofluoromethane	137.37	440	J D	1000	200
76-13-1	Freon TF	187.38	1400	U	1400	530
75-35-4	1,1-Dichloroethene	96.94	76000	D	740	130
67-64-1	Acetone	58.08	11000	U	11000	1900
67-63-0	Isopropyl alcohol	60.10	11000	U	11000	2200
75-15-0	Carbon disulfide	76.14	1400	U	1400	120
107-05-1	3-Chloropropene	76.53	1500	U	1500	200
75-09-2	Methylene Chloride	84.93	1600	U	1600	580
75-65-0	tert-Butyl alcohol	74.12	14000	U	14000	2400
1634-04-4	Methyl tert-butyl ether	88.15	670	U	670	300
156-60-5	trans-1,2-Dichloroethene	96.94	740	U	740	160
110-54-3	n-Hexane	86.17	650	U	650	180
75-34-3	1,1-Dichloroethane	98.96	18000	D	750	94
78-93-3	Methyl Ethyl Ketone	72.11	1400	U	1400	140
156-59-2	cis-1,2-Dichloroethene	96.94	740	U	740	130
540-59-0	1,2-Dichloroethene, Total	96.94	1500	U	1500	130
67-66-3	Chloroform	119.38	910	U	910	370
109-99-9	Tetrahydrofuran	72.11	14000	U	14000	3800
71-55-6	1,1,1-Trichloroethane	133.41	1000	U	1000	230
110-82-7	Cyclohexane	84.16	640	U	640	120
56-23-5	Carbon tetrachloride	153.81	230	U	230	190
540-84-1	2,2,4-Trimethylpentane	114.23	870	U	870	170
71-43-2	Benzene	78.11	590	U	590	120
107-06-2	1,2-Dichloroethane	98.96	750	U	750	150

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 DL | Lab Sample ID: 200-29972-9 DL

Matrix: Air | Lab File ID: 15991_014.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 38(mL) | Date Analyzed: 09/29/2015 21:11

Soil Aliquot Vol: | Dilution Factor: 927

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	760	U	760	150
79-01-6	Trichloroethene	131.39	2400	D	200	190
80-62-6	Methyl methacrylate	100.12	1900	U	1900	150
78-87-5	1,2-Dichloropropane	112.99	860	U	860	120
123-91-1	1,4-Dioxane	88.11	17000	U	17000	1900
75-27-4	Bromodichloromethane	163.83	1200	U	1200	190
10061-01-5	cis-1,3-Dichloropropene	110.97	840	U	840	97
108-10-1	methyl isobutyl ketone	100.16	1900	U	1900	190
108-88-3	Toluene	92.14	700	U	700	320
10061-02-6	trans-1,3-Dichloropropene	110.97	840	U	840	140
79-00-5	1,1,2-Trichloroethane	133.41	1000	U	1000	200
127-18-4	Tetrachloroethene	165.83	1300	U	1300	140
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1900	U	1900	220
124-48-1	Dibromochloromethane	208.29	1600	U	1600	350
106-93-4	1,2-Dibromoethane	187.87	1400	U	1400	280
108-90-7	Chlorobenzene	112.56	850	U	850	210
100-41-4	Ethylbenzene	106.17	810	U	810	130
179601-23-1	m,p-Xylene	106.17	2000	U	2000	290
95-47-6	Xylene, o-	106.17	810	U	810	150
1330-20-7	Xylene (total)	106.17	2800	U	2800	150
100-42-5	Styrene	104.15	790	U	790	170
75-25-2	Bromoform	252.75	1900	U	1900	540
98-82-8	Cumene	120.19	910	U	910	140
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1300	U	1300	280
103-65-1	n-Propylbenzene	120.19	910	U	910	200
622-96-8	4-Ethyltoluene	120.20	910	U	910	200
108-67-8	1,3,5-Trimethylbenzene	120.20	910	U	910	180
95-49-8	2-Chlorotoluene	126.59	960	U	960	160
98-06-6	tert-Butylbenzene	134.22	1000	U	1000	220
95-63-6	1,2,4-Trimethylbenzene	120.20	910	U	910	200
135-98-8	sec-Butylbenzene	134.22	1000	U	1000	220
99-87-6	4-Isopropyltoluene	134.22	1000	U	1000	190
541-73-1	1,3-Dichlorobenzene	147.00	1100	U	1100	310
106-46-7	1,4-Dichlorobenzene	147.00	1100	U	1100	320

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS05-092315 DL Lab Sample ID: 200-29972-9 DL

Matrix: Air Lab File ID: 15991_014.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 38(mL) Date Analyzed: 09/29/2015 21:11

Soil Aliquot Vol: Dilution Factor: 927

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*960*	*U*	*960*	*250*
104-51-8	*n-Butylbenzene*	*134.22*	*1000*	*U*	*1000*	*240*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*1100*	*U*	*1100*	*310*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*3400*	*U*	*3400*	*470*
87-68-3	*Hexachlorobutadiene*	*260.76*	*2000*	*U*	*2000*	*810*
91-20-3	*Naphthalene*	*128.17*	*2400*	*U*	*2400*	*280*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d
Lims ID: 200-29972-A-9 Lab Sample ID: 200-29972-9
Client ID: FR-SS05-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 21:11:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 200.000 mL Dil. Factor: 927.0000
Sample Info: 200-0015991-014
Misc. Info.: 29972-09
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:57:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85		4.426				ND	
3 Chlorodifluoromethane	51		4.495				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50		5.009				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.283	7.288	-0.006	93	4405	0.0836	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.668	8.663	0.005	95	313181	20.7	
22 Acetone	43		8.935				ND	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.235	9.219	0.016	97	2022	0.1551	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49		9.925				ND	
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57		10.851				ND	
34 1,1-Dichloroethane	63	11.423	11.428	-0.005	99	111400	4.74	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72		12.653				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	146098	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97	13.526	13.531	-0.005	64	1284	0.0302	M

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117		13.782				ND	
	46 Isooctane	57		14.183				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	685466	10.0	
	53 Trichloroethene	95	15.473	15.478	-0.005	96	11510	0.4834	
	54 1,2-Dichloropropane	63		16.013				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.859				ND	
	68 Tetrachloroethene	166		18.987				ND	
	69 2-Hexanone	43		19.260				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	659261	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.973				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.482				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.920				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128		28.767				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

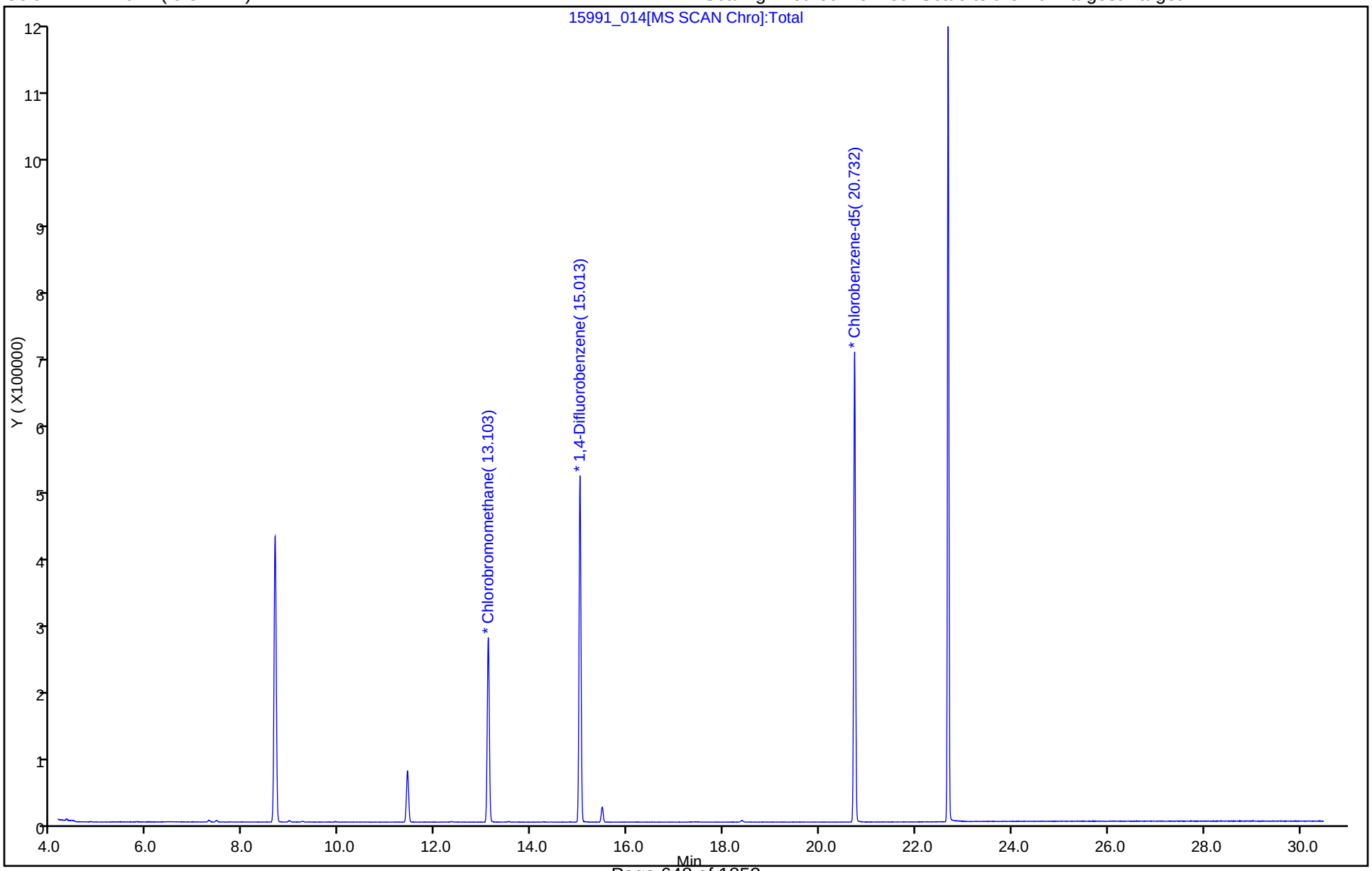
Report Date: 30-Sep-2015 14:17:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d

Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9	Worklist Smp#:	14
Client ID:	FR-SS05-092315				
Purge Vol:	200.000 mL	Dil. Factor:	927.0000	ALS Bottle#:	13
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



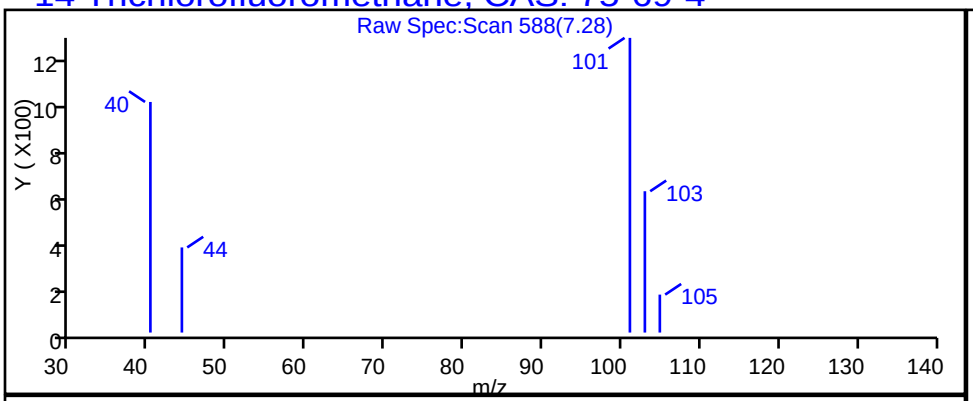
Report Date: 30-Sep-2015 14:17:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

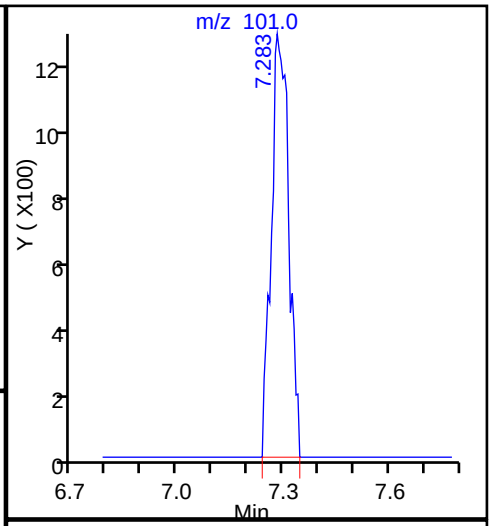
TestAmerica Burlington

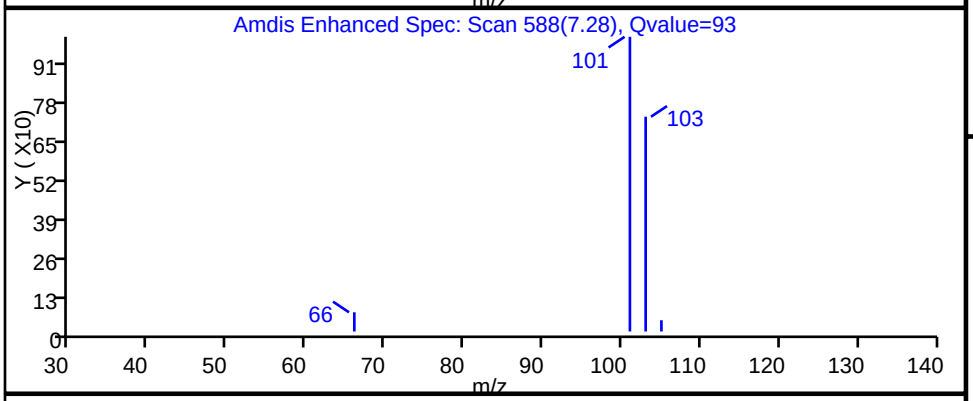
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d

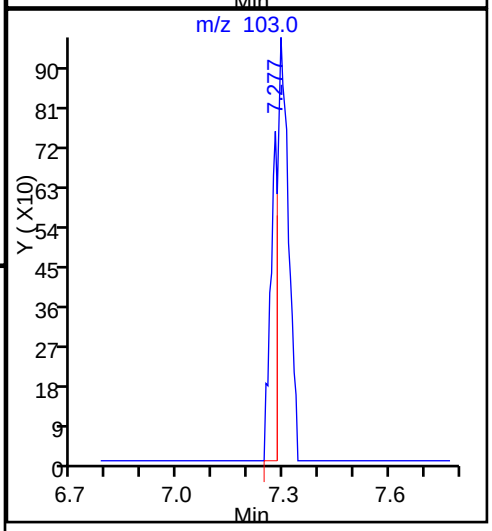
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

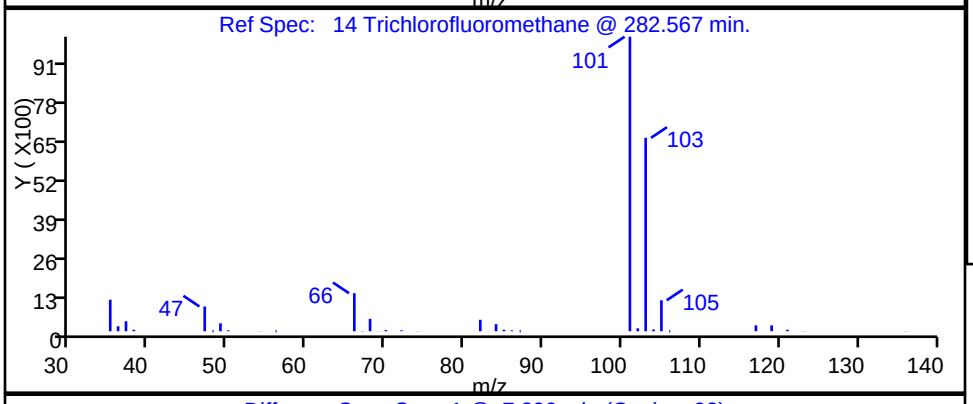
14 Trichlorofluoromethane, CAS: 75-69-4

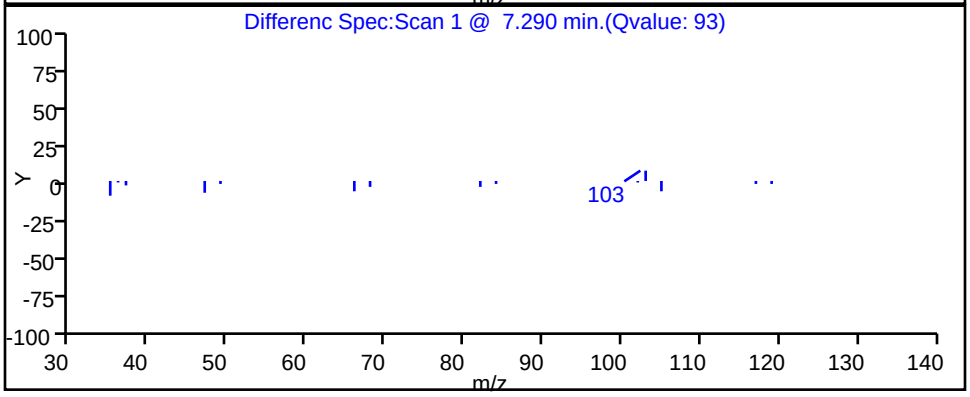












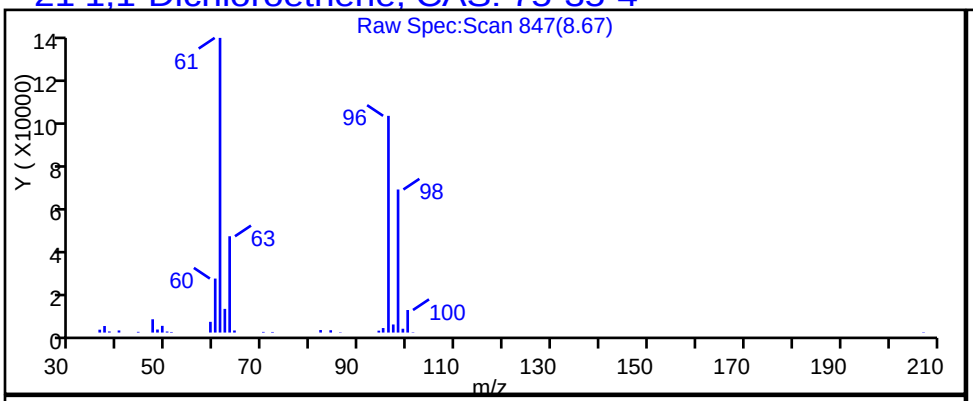
Report Date: 30-Sep-2015 14:17:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

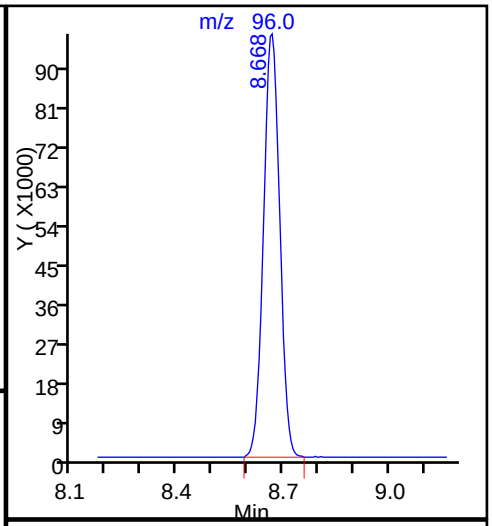
TestAmerica Burlington

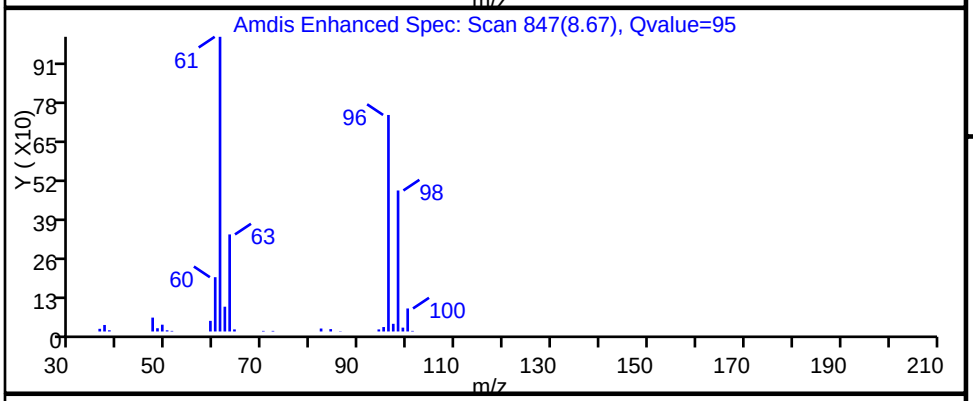
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d

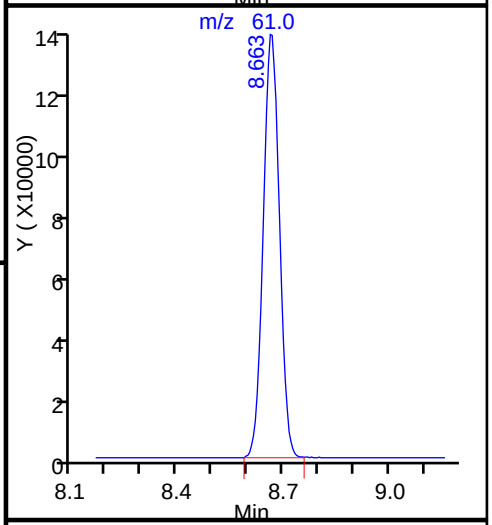
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

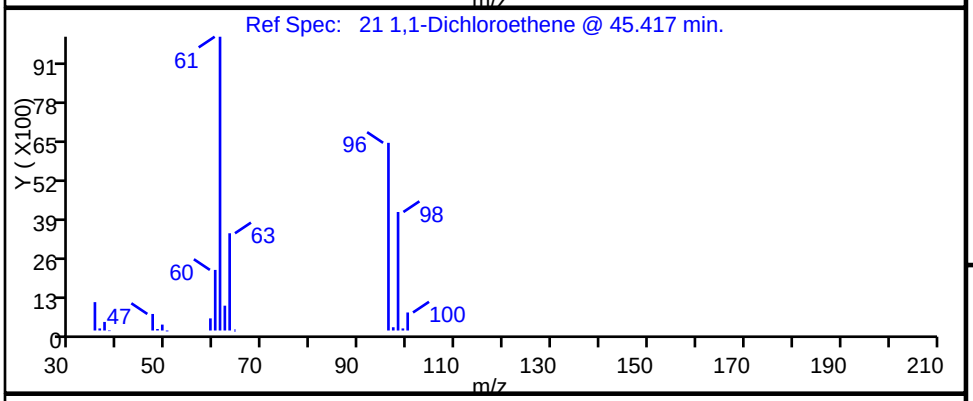
21 1,1-Dichloroethene, CAS: 75-35-4

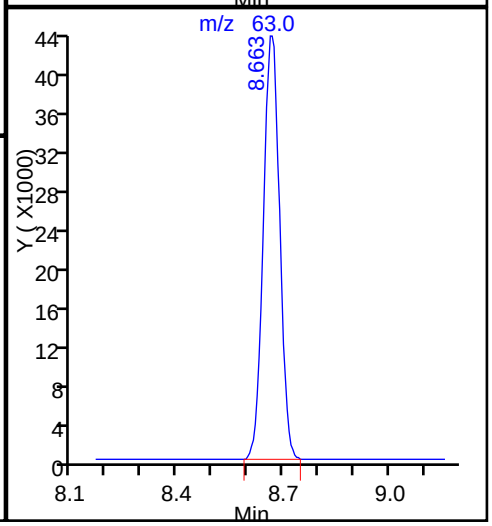


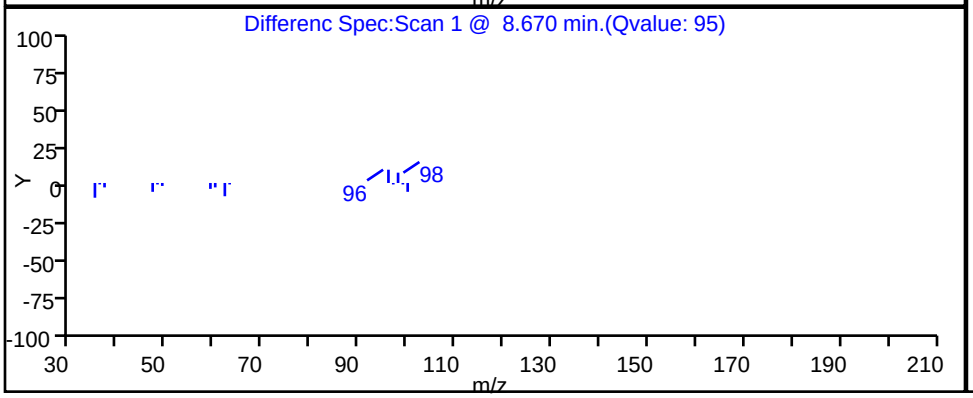












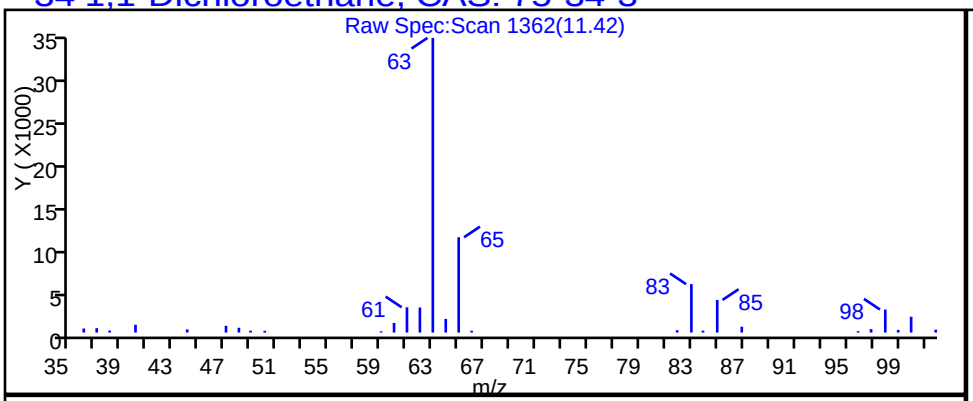
Report Date: 30-Sep-2015 14:17:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

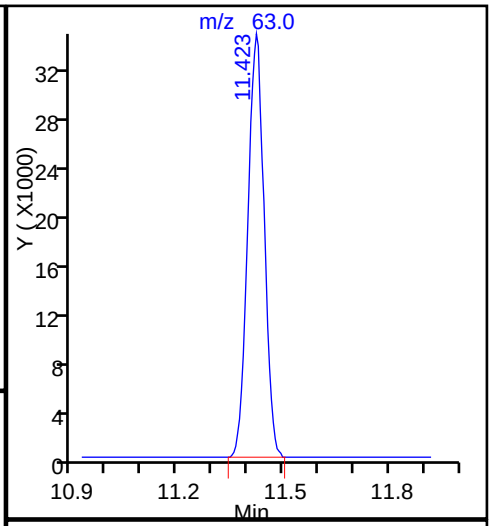
TestAmerica Burlington

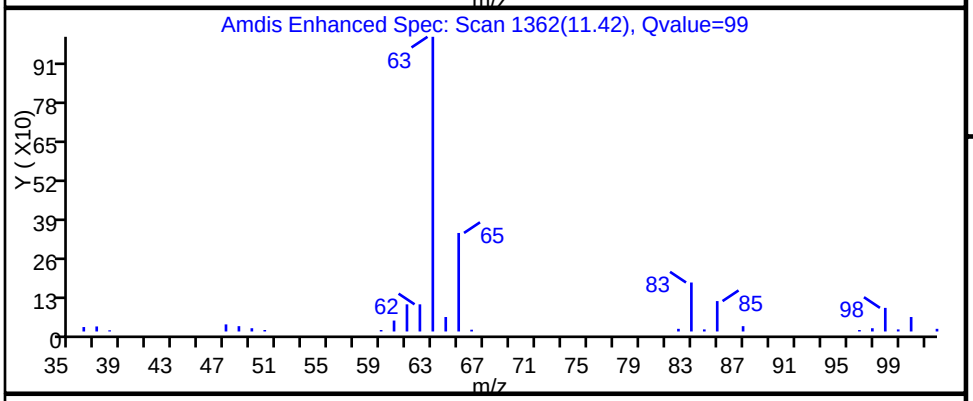
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d

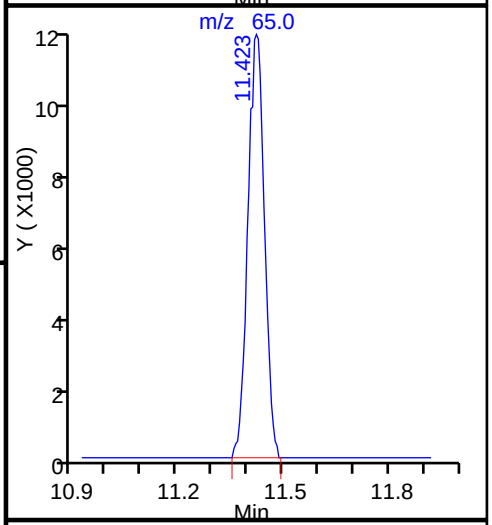
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

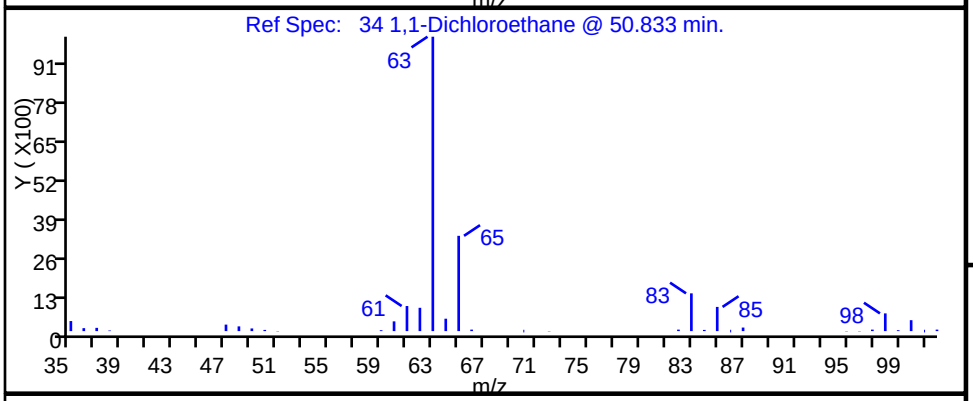
34 1,1-Dichloroethane, CAS: 75-34-3

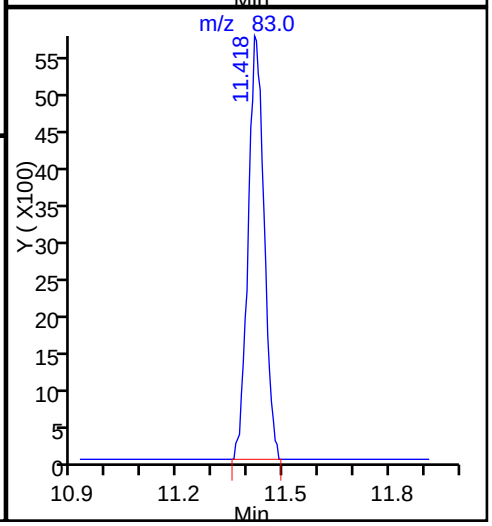


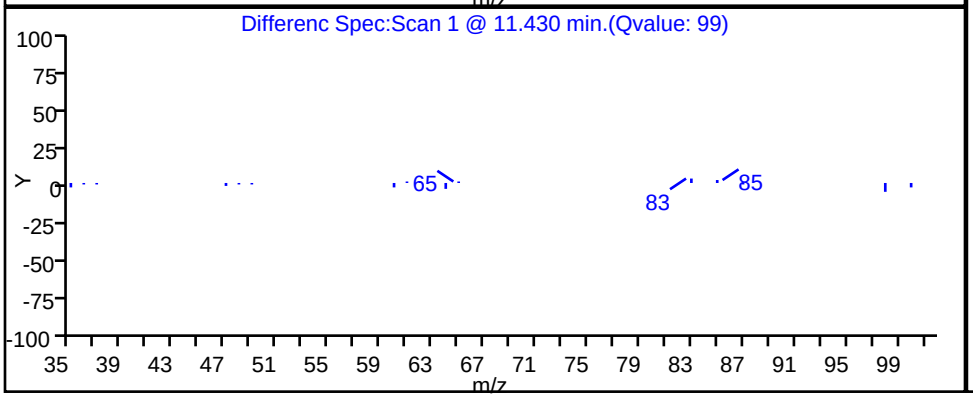












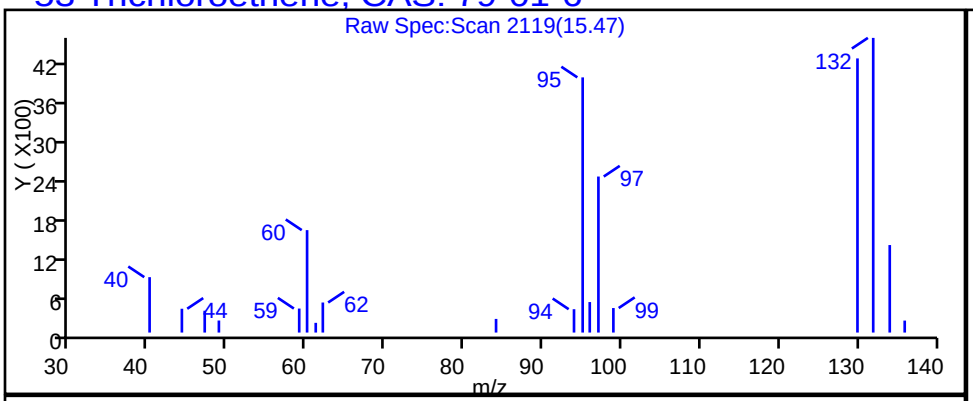
Report Date: 30-Sep-2015 14:17:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

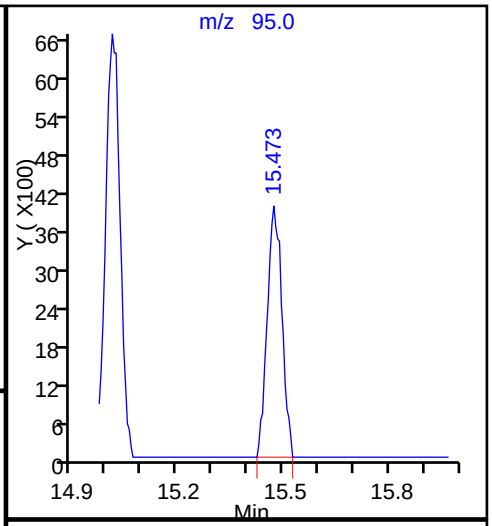
TestAmerica Burlington

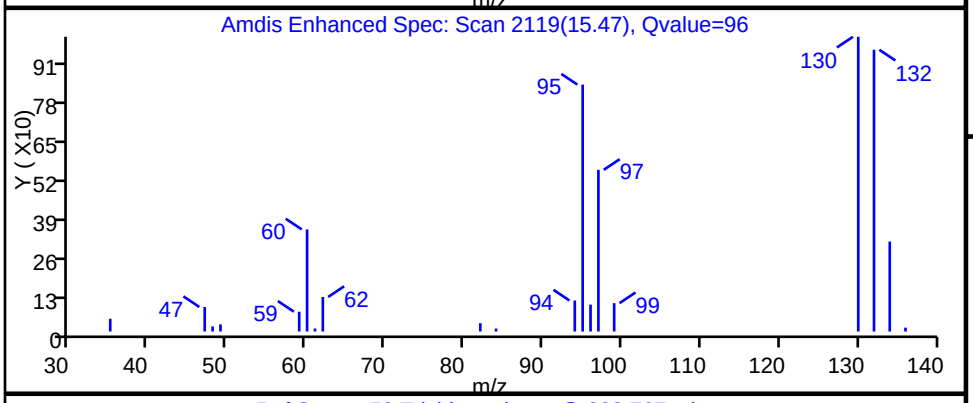
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d

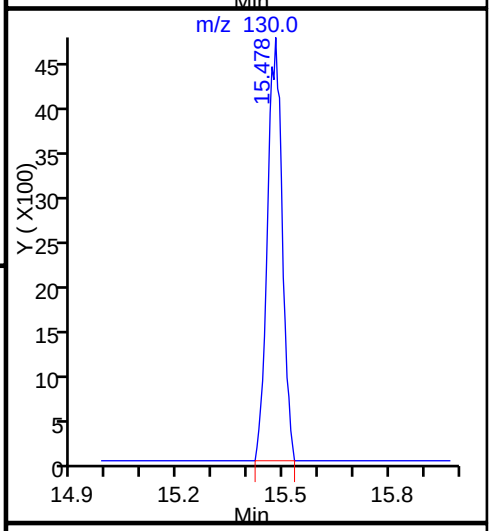
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

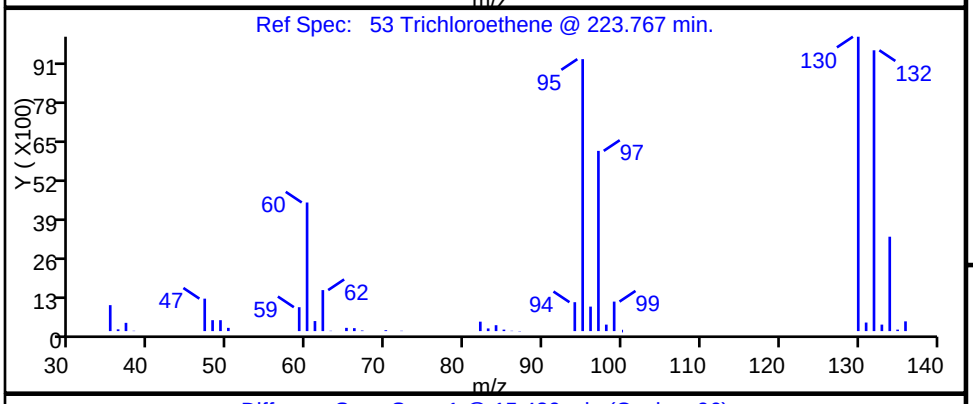
53 Trichloroethene, CAS: 79-01-6

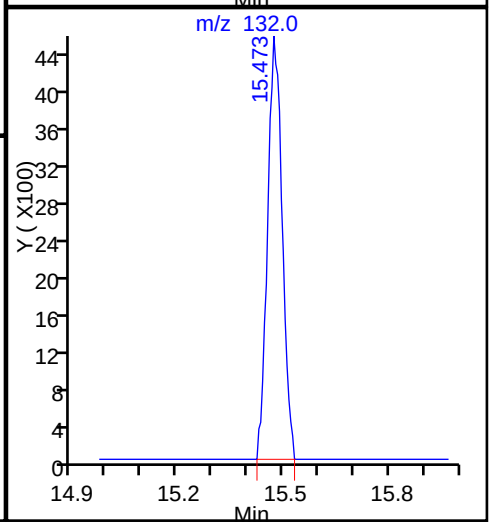


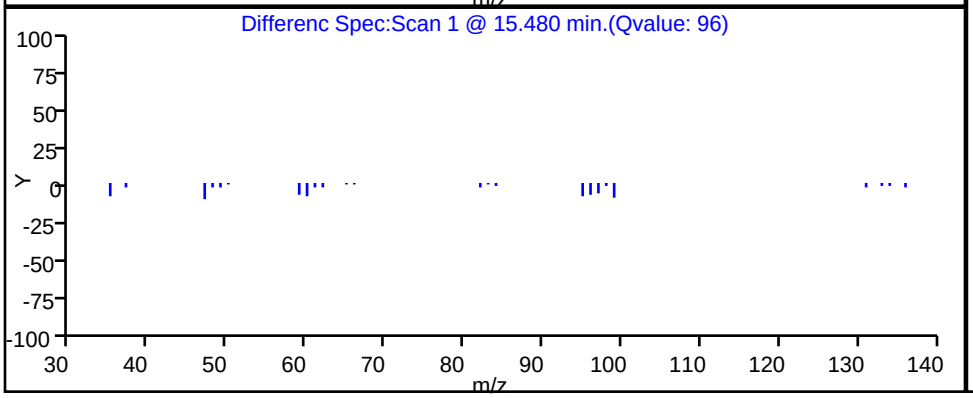












Manual Integration/User Assign Peak Report

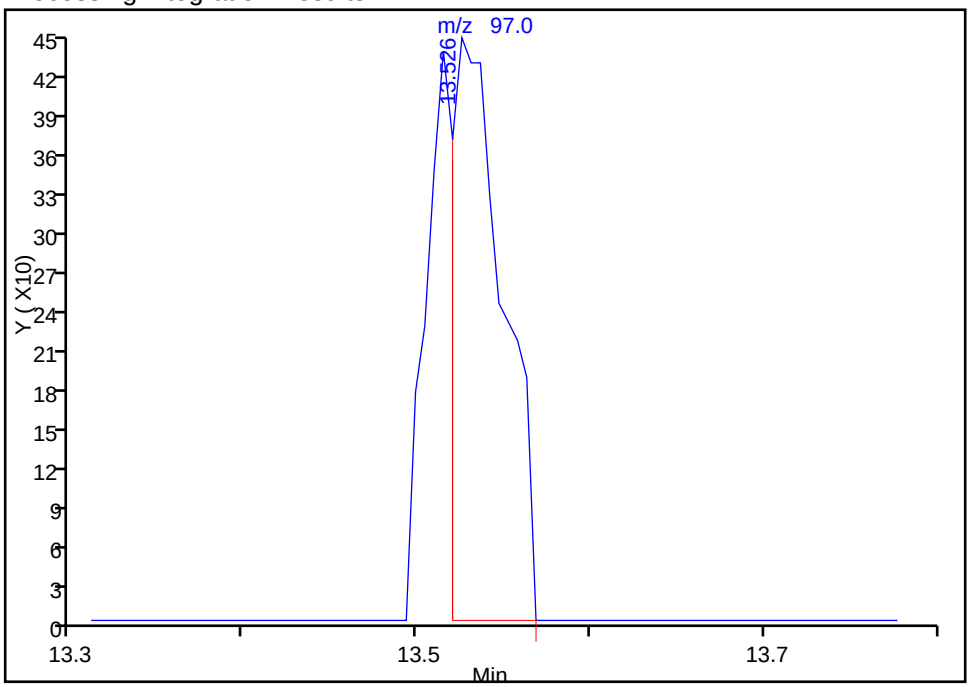
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d				
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Integration Results

RT: 13.53
Area: 909
Amount: 0.021365
Amount Units: ppb v/v



Manual Integration Results

RT: 13.53
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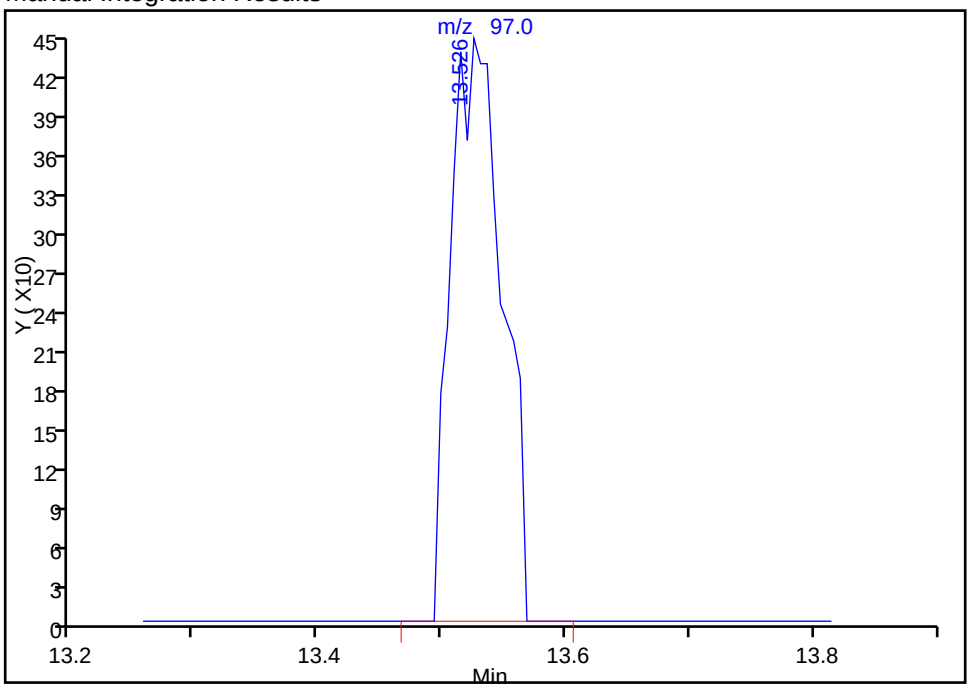
Amount: 0.030179
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:57:31
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

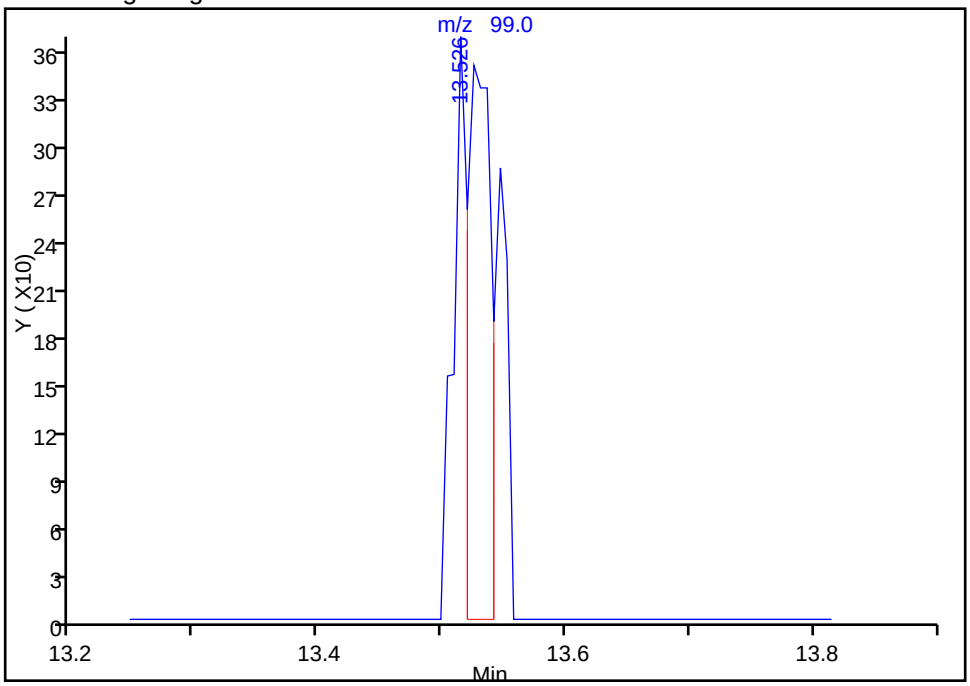
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d				
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

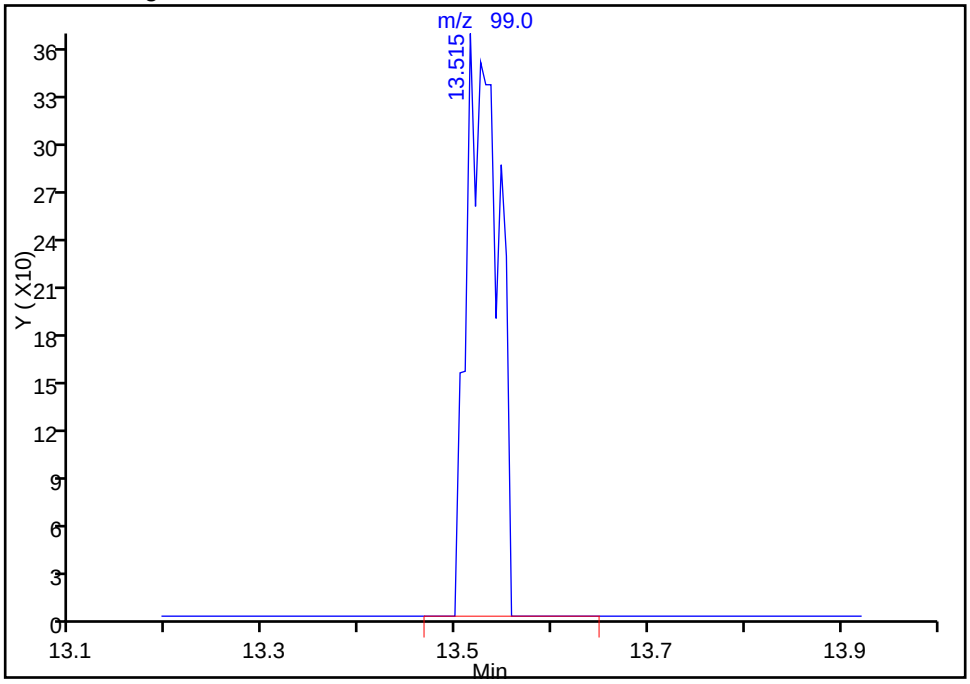
Processing Integration Results

RT: 13.53
Area: 466
Amount: 0.021365
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 844
Amount: 0.030179
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:57:31
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

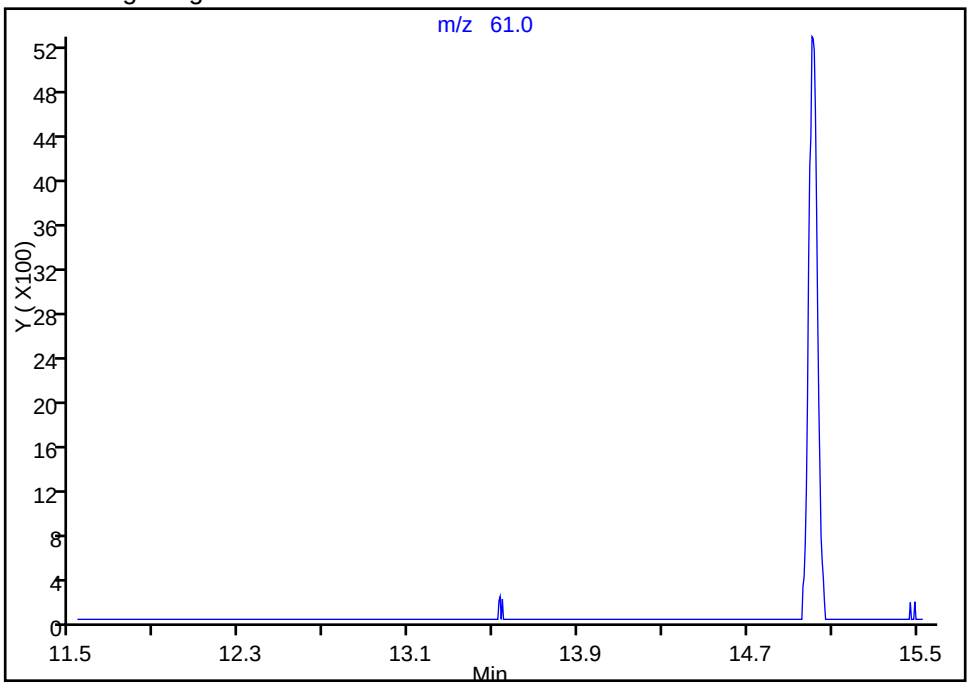
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_014.d				
Injection Date:	29-Sep-2015 21:11:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-9	Lab Sample ID:	200-29972-9		
Client ID:	FR-SS05-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	927.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Integration Results

RT: 13.53
Area: 0
Amount: 0.021365
Amount Units: ppb v/v



Manual Integration Results

RT: 13.53
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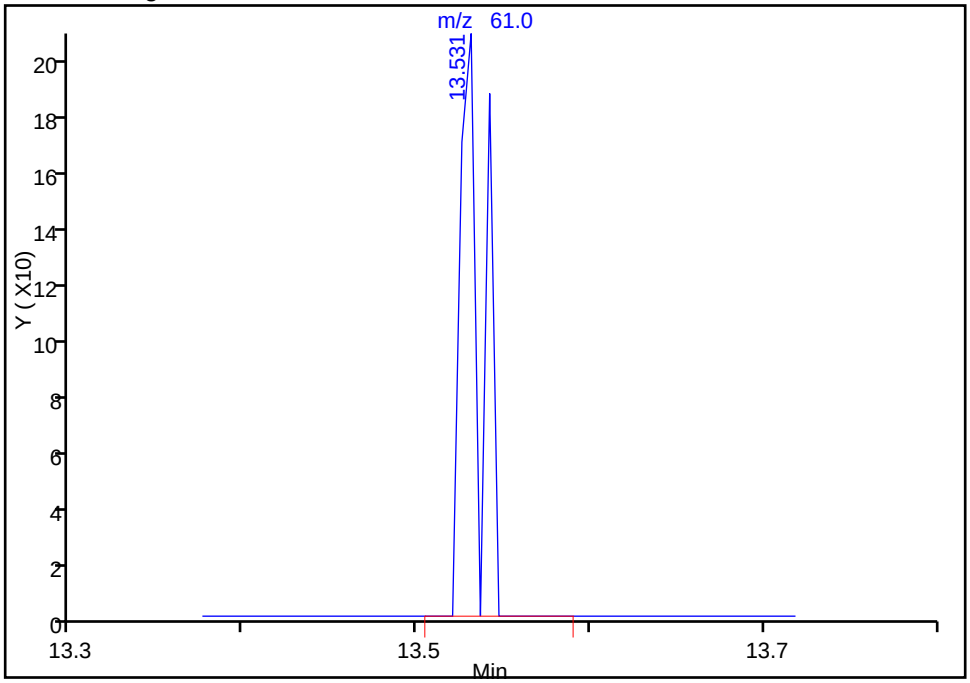
Amount: 0.030179
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:57:31
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 | Lab Sample ID: 200-29972-10

Matrix: Air | Lab File ID: 15991_015.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 22:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.76		0.50	0.080
75-45-6	Freon 22	86.47	0.77		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.64		0.50	0.093
106-97-8	n-Butane	58.12	7.4		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	*Trichlorofluoromethane*	*137.37*	*72*	*E*	*0.20*	*0.038*
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	1.7		0.20	0.036
67-64-1	Acetone	58.08	11		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	13		5.0	0.98
75-15-0	Carbon disulfide	76.14	0.13	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.32	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.85		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.56		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	1.1		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.77		0.20	0.046
110-82-7	Cyclohexane	84.16	0.25		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.095		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.42		0.20	0.039
71-43-2	Benzene	78.11	0.71		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.70		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 | Lab Sample ID: 200-29972-10

Matrix: Air | Lab File ID: 15991_015.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 22:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.26		0.20	0.040
79-01-6	Trichloroethene	131.39	0.049		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.22	J	0.50	0.050
108-88-3	Toluene	92.14	1.9		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.064	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.25		0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.92		0.50	0.071
95-47-6	Xylene, o-	106.17	0.33		0.20	0.037
1330-20-7	Xylene (total)	106.17	1.3		0.70	0.037
100-42-5	Styrene	104.15	0.17	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.042	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.051	J	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.084	J	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.086	J	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.35		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.096	J	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.069	J	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 Lab Sample ID: 200-29972-10

Matrix: Air Lab File ID: 15991_015.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 22:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.16	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 | Lab Sample ID: 200-29972-10

Matrix: Air | Lab File ID: 15991_015.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 22:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.7		2.5	0.40
75-45-6	Freon 22	86.47	2.7		1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.3		1.0	0.19
106-97-8	n-Butane	58.12	17		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	*Trichlorofluoromethane*	*137.37*	*400*	*E*	*1.1*	*0.21*
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	6.8		0.79	0.14
67-64-1	Acetone	58.08	26		12	2.0
67-63-0	Isopropyl alcohol	60.10	32		12	2.4
75-15-0	Carbon disulfide	76.14	0.39	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	3.0		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	2.3		0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	3.3		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	4.2		1.1	0.25
110-82-7	Cyclohexane	84.16	0.85		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.60		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	2.0		0.93	0.18
71-43-2	Benzene	78.11	2.3		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	2.8		0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 Lab Sample ID: 200-29972-10

Matrix: Air Lab File ID: 15991_015.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 22:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.1		0.82	0.16
79-01-6	Trichloroethene	131.39	0.26		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	0.89	J	2.0	0.20
108-88-3	Toluene	92.14	7.2		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.43	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	1.1		0.87	0.14
179601-23-1	m,p-Xylene	106.17	4.0		2.2	0.31
95-47-6	Xylene, o-	106.17	1.4		0.87	0.16
1330-20-7	Xylene (total)	106.17	5.4		3.0	0.16
100-42-5	Styrene	104.15	0.73	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.21	J	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.25	J	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.41	J	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.42	J	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	0.53	J	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	0.41	J	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 Lab Sample ID: 200-29972-10

Matrix: Air Lab File ID: 15991_015.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 22:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	0.83	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d
Lims ID: 200-29972-A-10 Lab Sample ID: 200-29972-10
Client ID: FR-IA05-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 22:02:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-015
Misc. Info.: 29972-10
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 13:00:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	99	32084	0.7555	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	96	13101	0.7653	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.003	5.009	-0.006	95	5314	0.6406	
6 Butane	43	5.282	5.282	0.000	96	88840	7.35	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	98	3462037	71.8	E
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.673	8.663	0.010	95	23658	1.71	
22 Acetone	43	8.946	8.935	0.011	97	162932	10.9	
23 Carbon disulfide	76	9.166	9.160	0.006	95	4178	0.1254	
24 Isopropyl alcohol	45	9.219	9.219	0.000	99	154056	12.9	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.931	9.925	0.006	81	3534	0.3220	
28 2-Methyl-2-propanol	59	10.118	10.112	0.006	96	5652	0.2680	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	88	12316	0.8460	
34 1,1-Dichloroethane	63	11.423	11.428	-0.005	98	12142	0.5648	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.664	12.653	0.011	99	7733	1.12	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	133735	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83	13.221	13.215	0.006	64	2062	0.0626	M
43 Cyclohexane	84	13.510	13.509	0.001	86	4470	0.2465	M
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	94	30060	0.7734	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117	13.782	13.782	0.000	96	4073	0.0952	
	46 Isooctane	57	14.184	14.183	0.001	95	20677	0.4209	
	47 Benzene	78	14.253	14.253	0.000	94	29973	0.7071	
	48 1,2-Dichloroethane	62	14.419	14.419	0.000	98	14195	0.6976	
	49 n-Heptane	43	14.537	14.531	0.006	68	4028	0.2632	M
*	50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	626225	10.0	
	53 Trichloroethene	95	15.473	15.478	-0.005	81	1069	0.0491	M
	54 1,2-Dichloropropane	63		16.013				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88	16.200	16.195	0.005	83	1730	0.2329	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43	17.623	17.623	0.000	89	4816	0.2162	
	65 Toluene	92	17.960	17.960	0.000	93	65688	1.91	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.859				ND	
	68 Tetrachloroethene	166	18.988	18.987	0.001	95	2645	0.0639	
	69 2-Hexanone	43		19.260				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106				0		1.24	
*	74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	594327	10.0	
	75 Chlorobenzene	112	20.780	20.785	-0.005	69	2496	0.0450	
	76 Ethylbenzene	91	20.892	20.897	-0.005	96	18944	0.2464	
	78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	28446	0.9158	
	79 o-Xylene	106	21.802	21.801	0.001	98	10003	0.3267	
	80 Styrene	104	21.834	21.839	-0.005	95	8207	0.1710	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105	22.342	22.352	-0.010	93	3915	0.0417	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91	22.973	22.973	0.000	99	5730	0.0507	
	88 4-Ethyltoluene	105	23.134	23.144	-0.010	96	8677	0.0836	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	7718	0.0861	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	97	31081	0.3499	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119	24.268	24.268	0.000	96	10566	0.0963	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	93	4988	0.0687	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.920				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128	28.767	28.767	0.000	98	17737	0.1578	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003	Amount Added:	20.00	Units: mL	Run Reagent

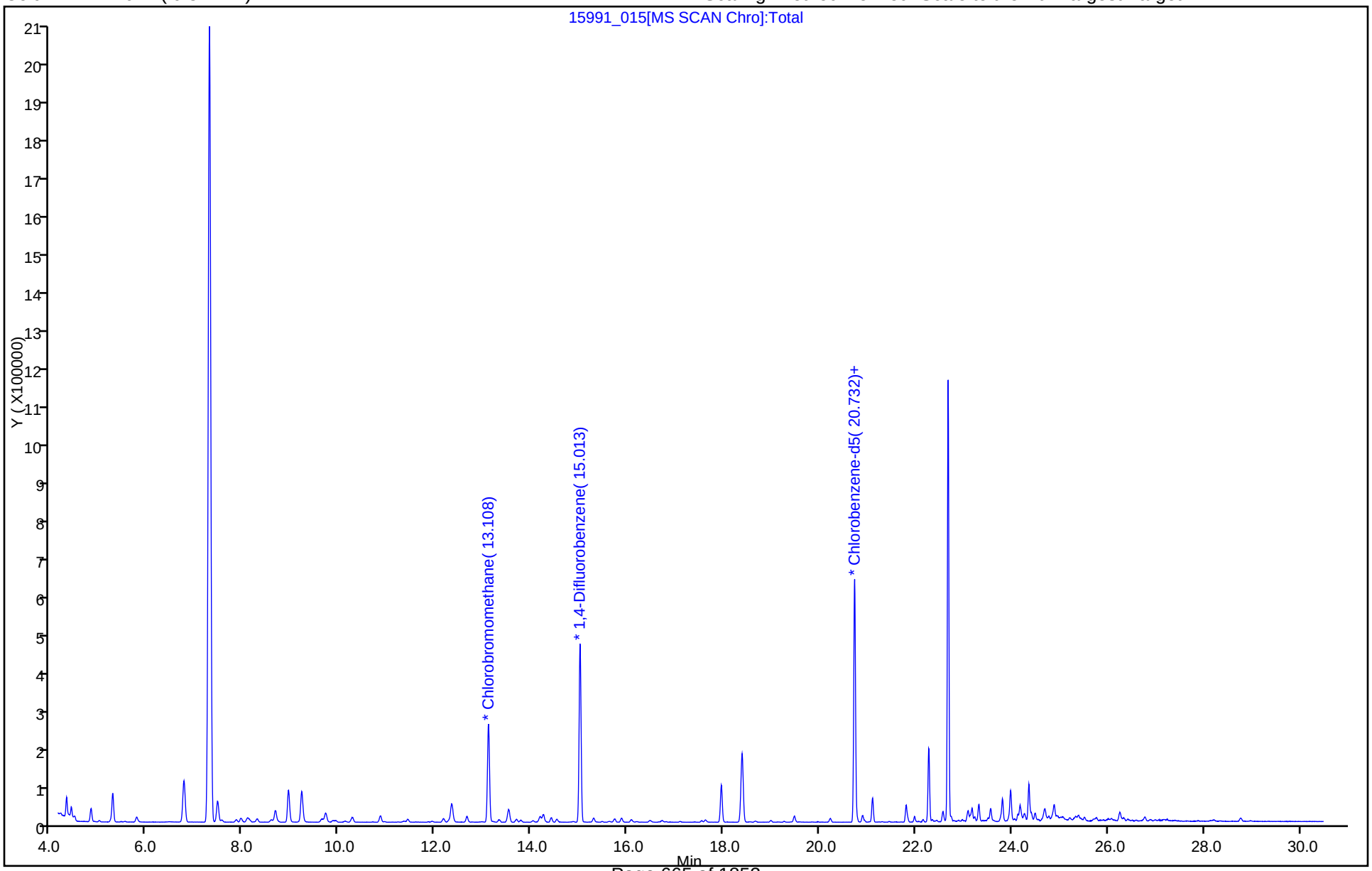
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10	Worklist Smp#:	15
Client ID:	FR-IA05-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



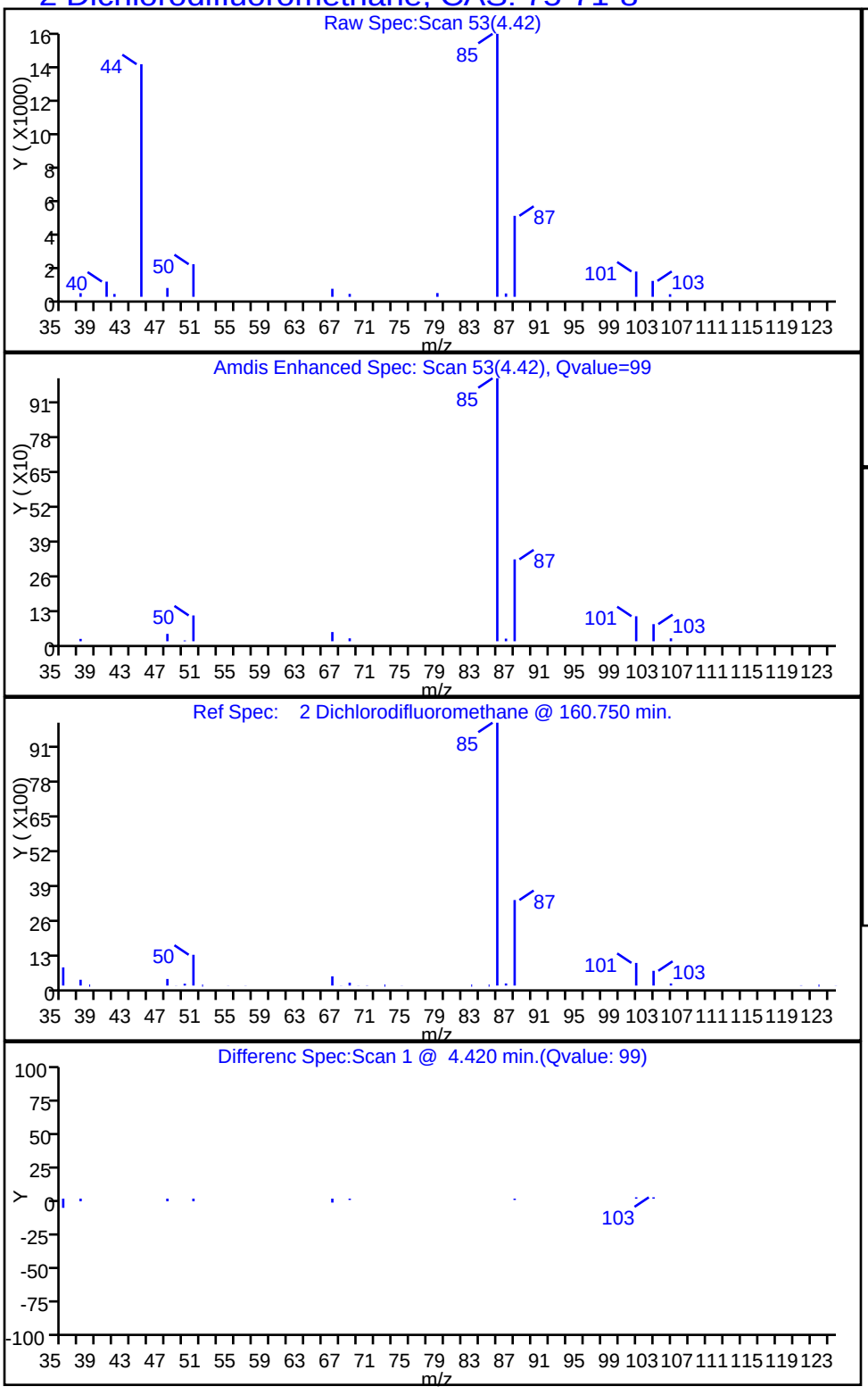
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

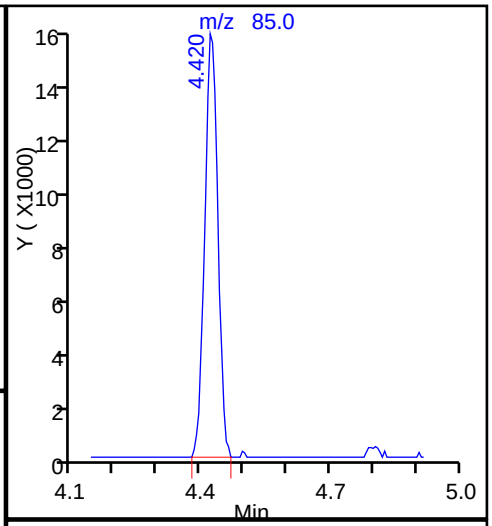
TestAmerica Burlington

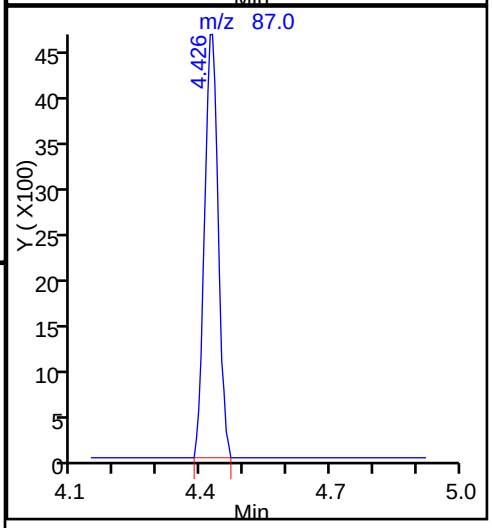
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8







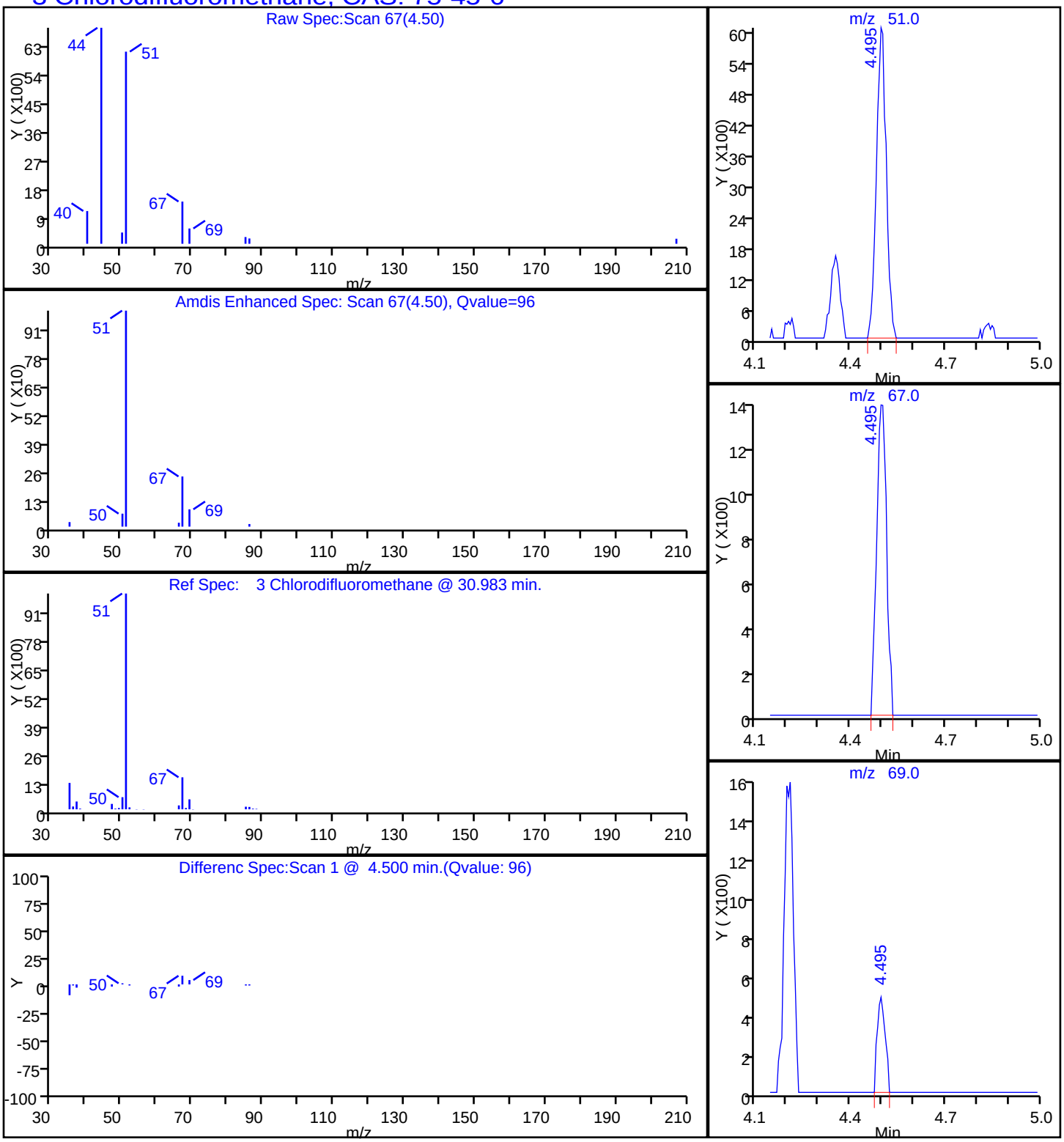
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6



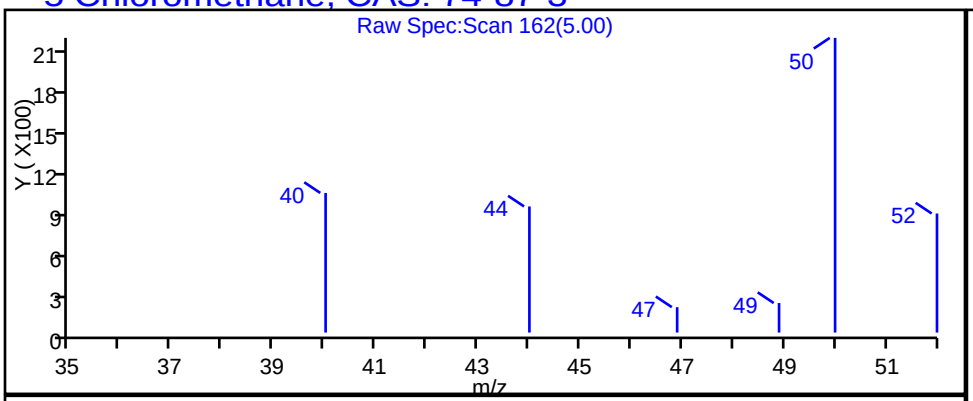
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

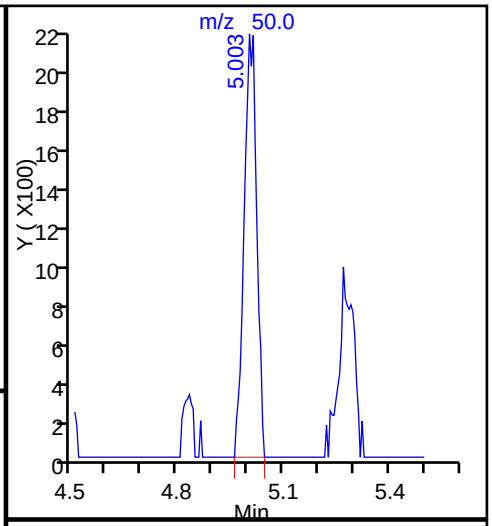
TestAmerica Burlington

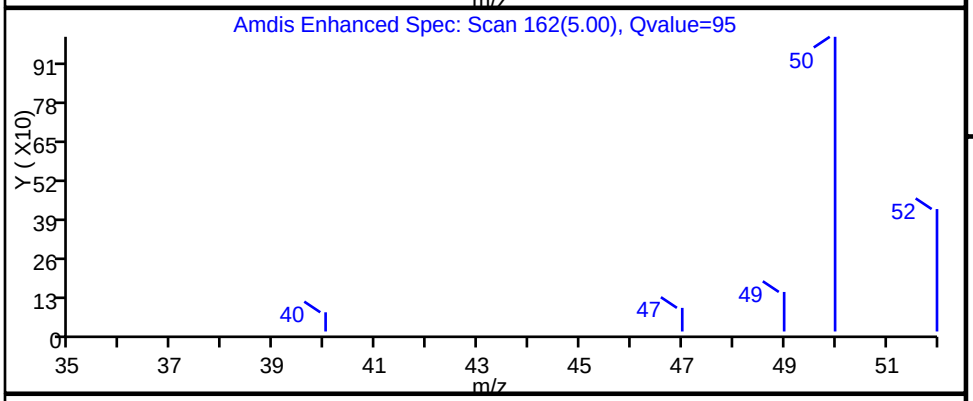
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

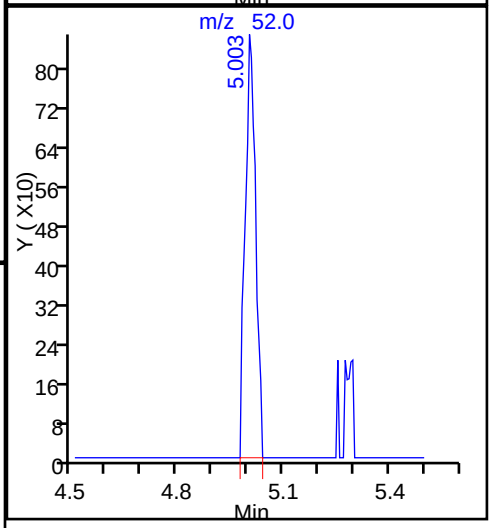
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

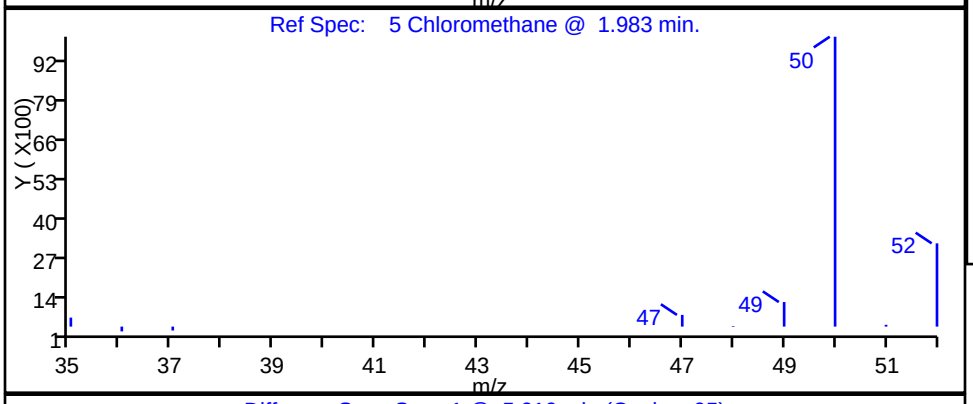
5 Chloromethane, CAS: 74-87-3

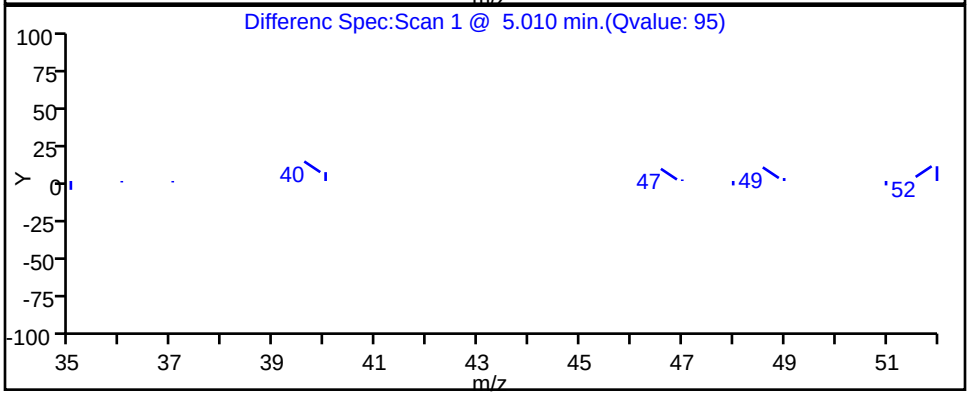












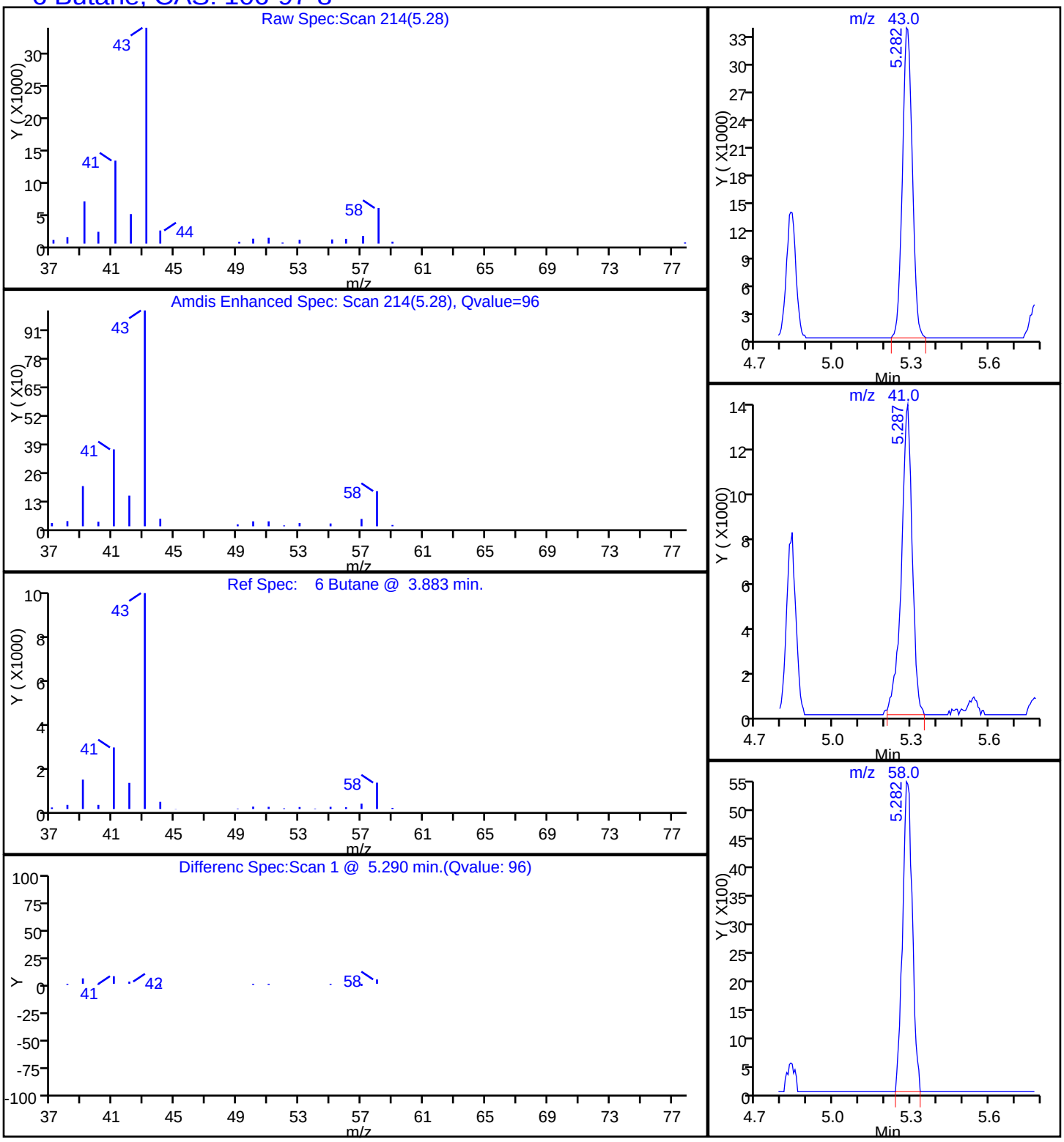
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

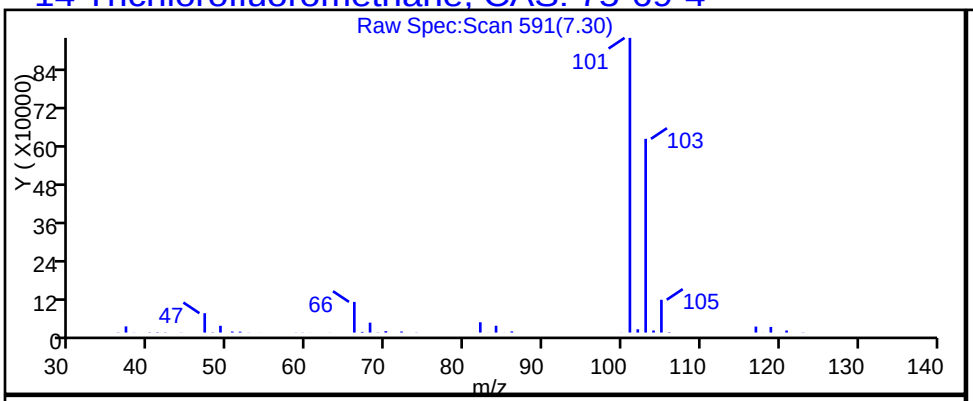


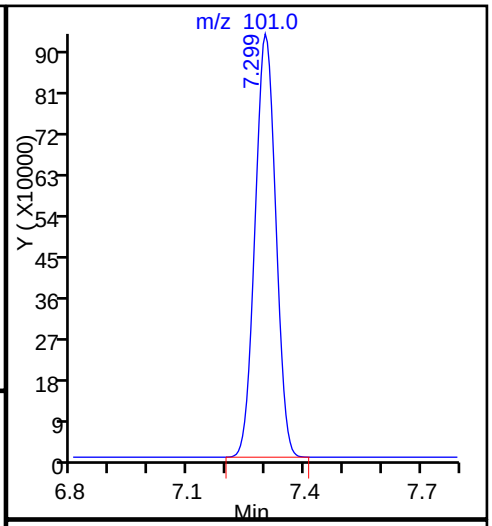
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

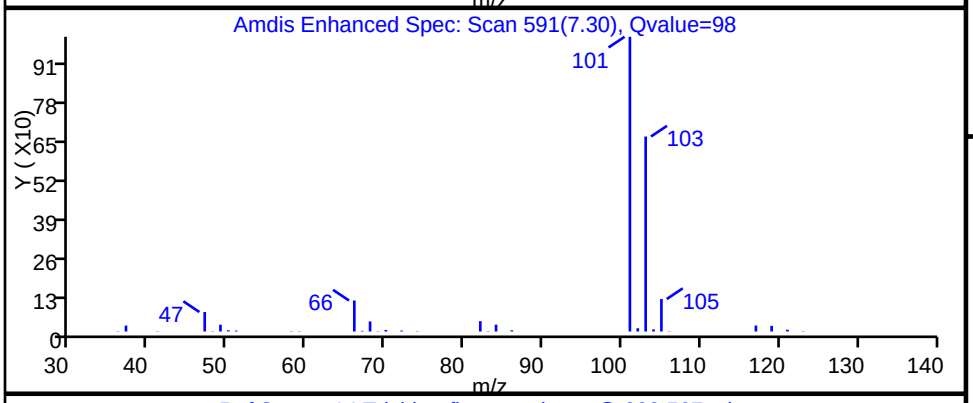
TestAmerica Burlington

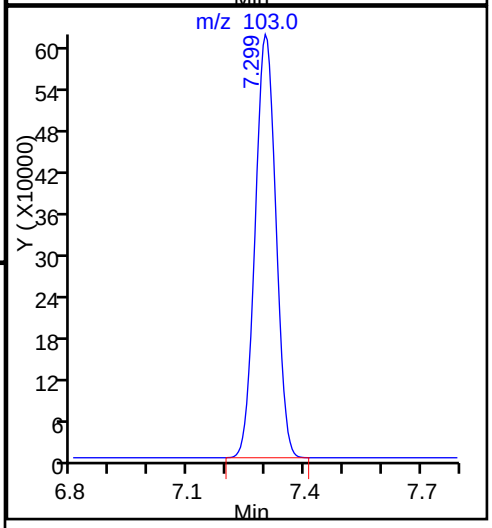
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

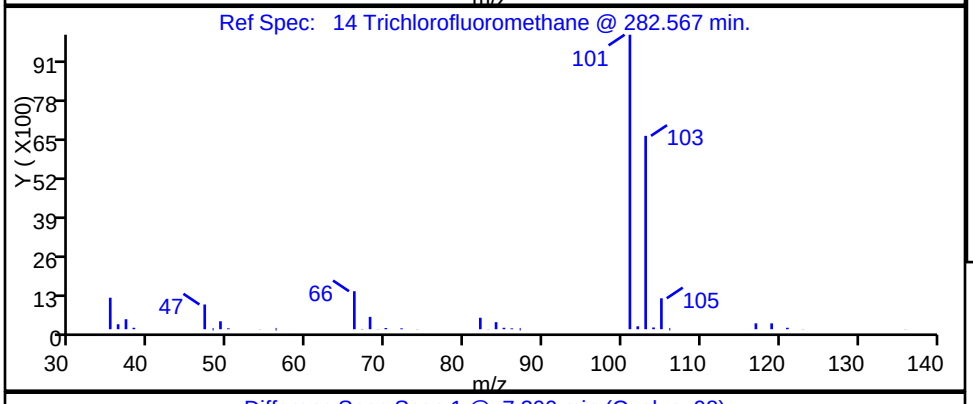
14 Trichlorofluoromethane, CAS: 75-69-4

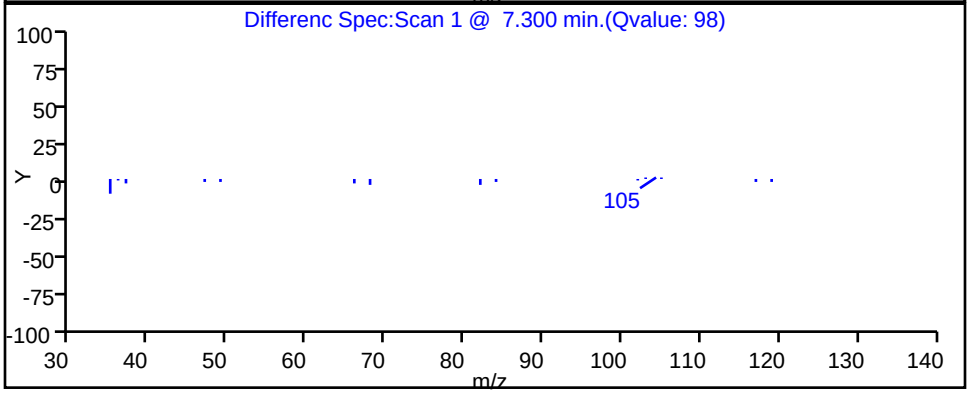












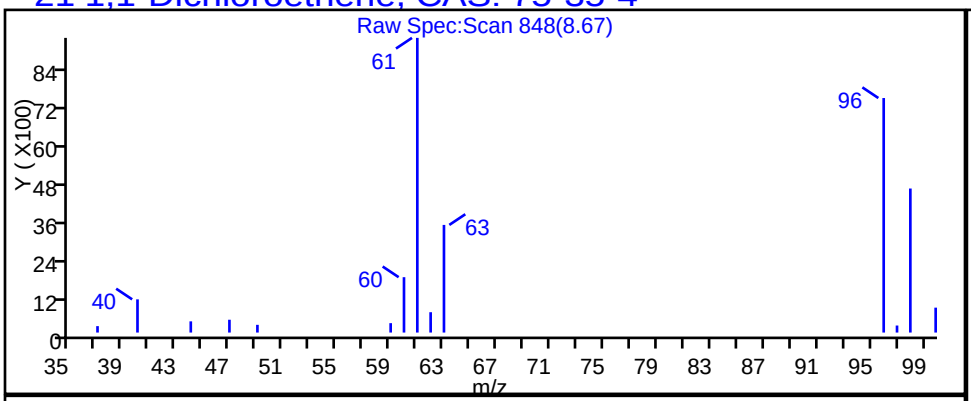
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

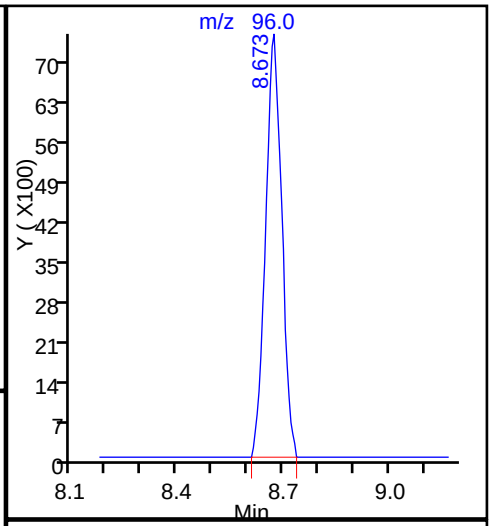
TestAmerica Burlington

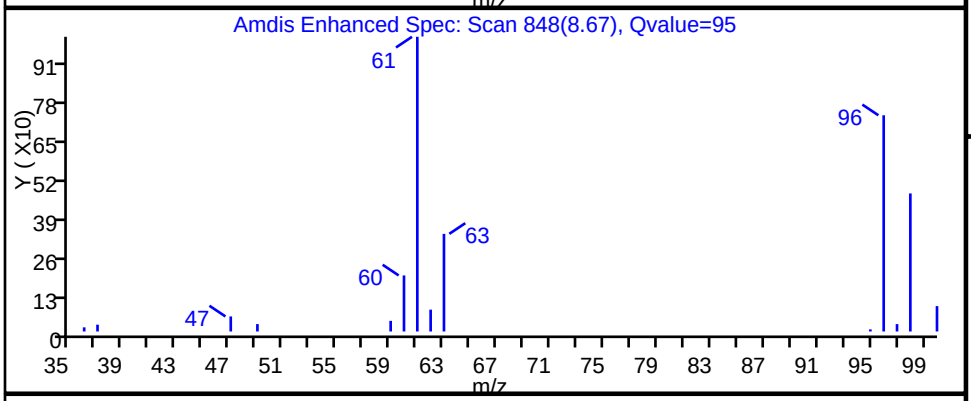
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

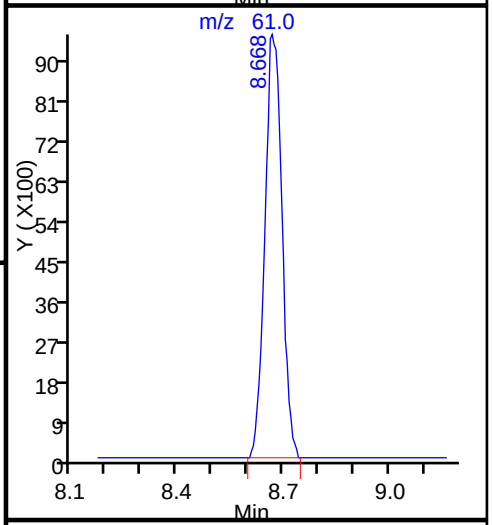
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

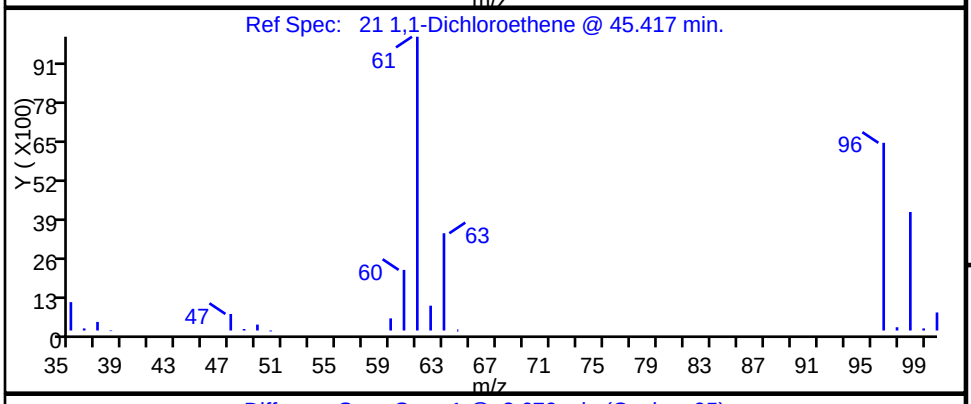
21 1,1-Dichloroethene, CAS: 75-35-4

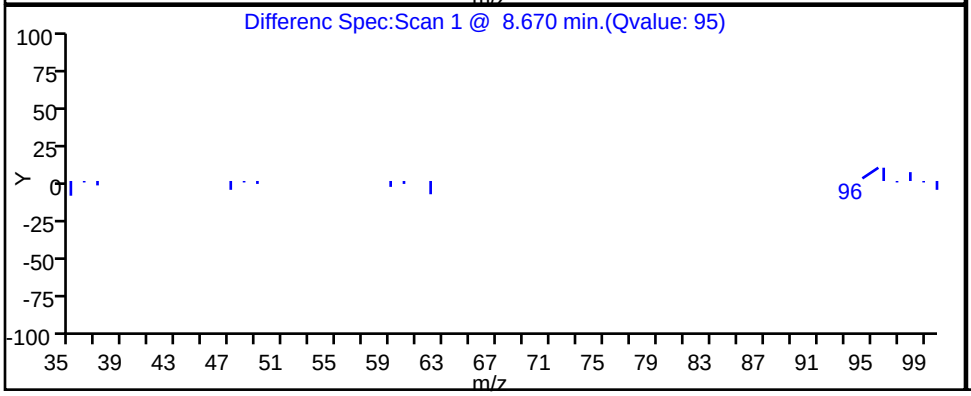


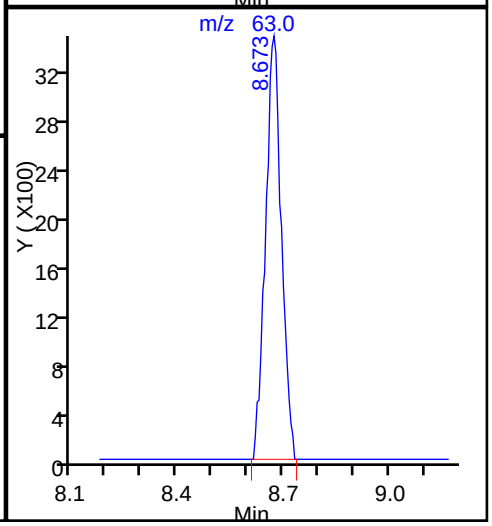












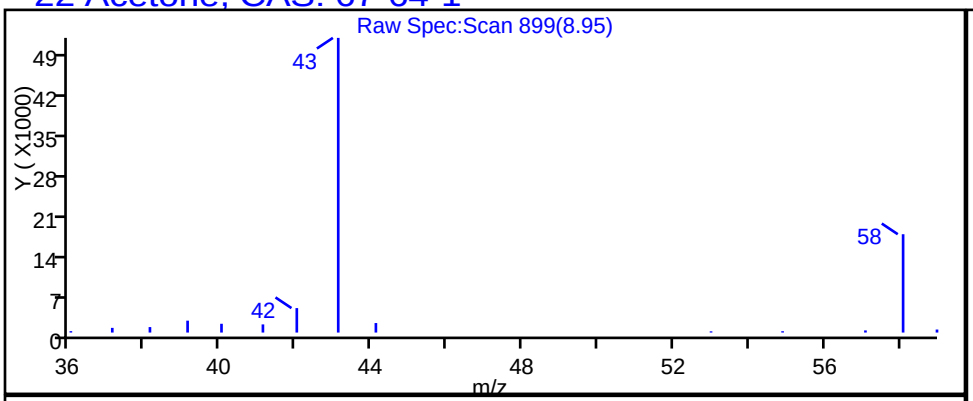
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

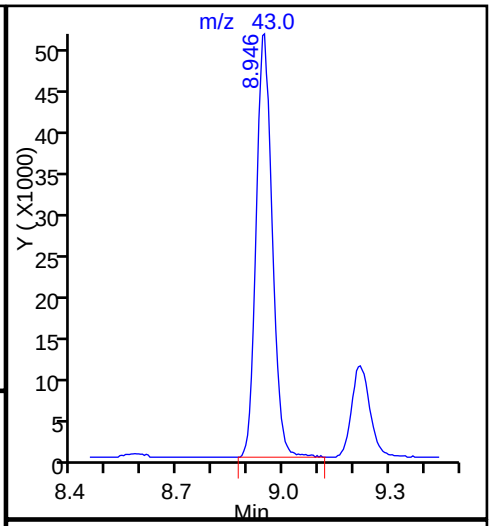
TestAmerica Burlington

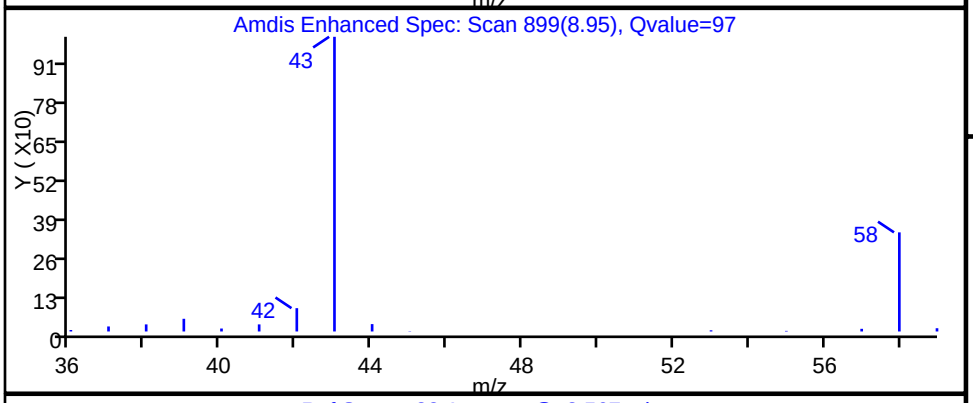
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

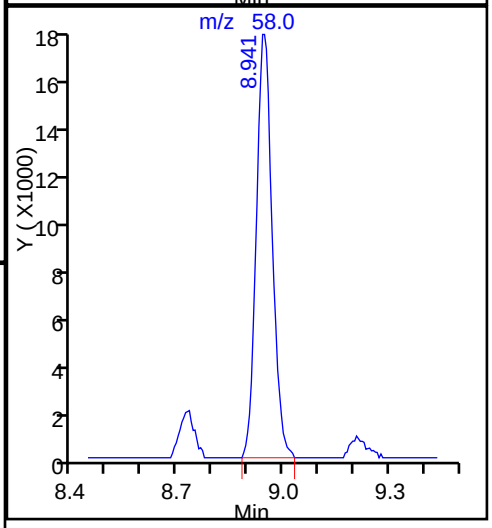
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

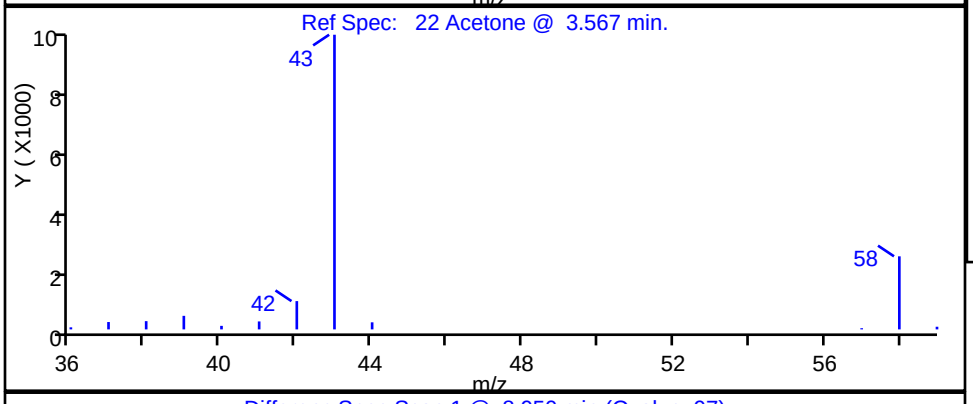
22 Acetone, CAS: 67-64-1

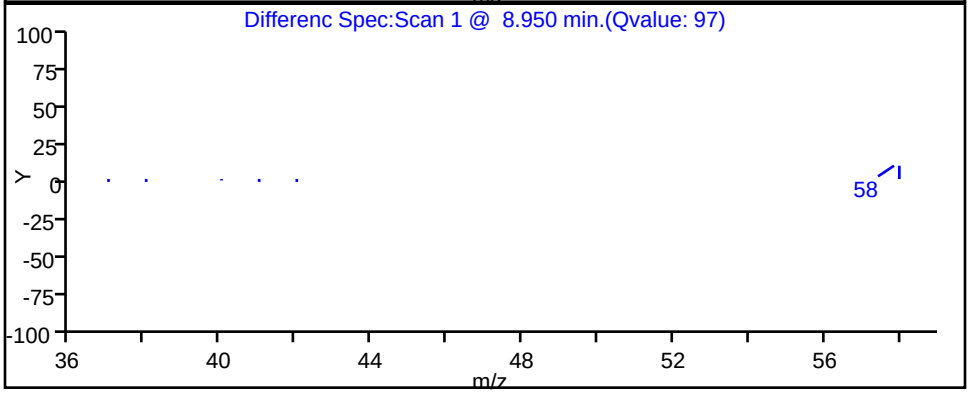












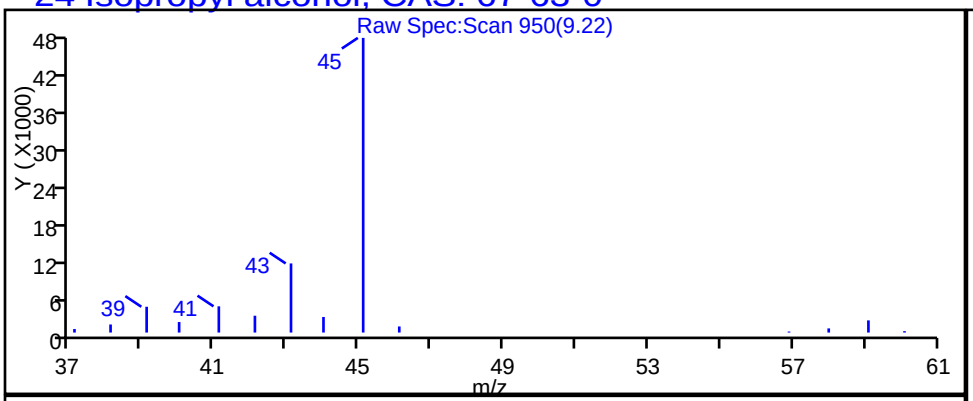
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

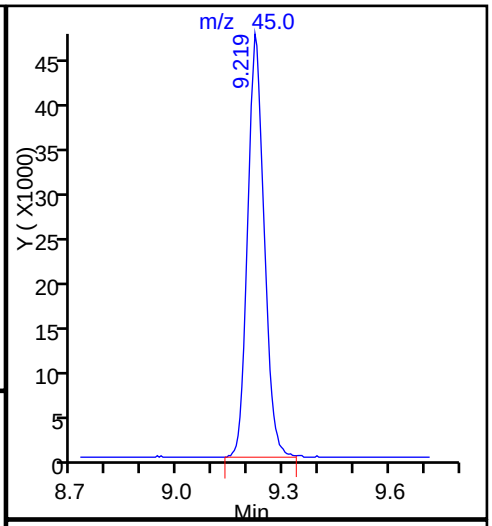
TestAmerica Burlington

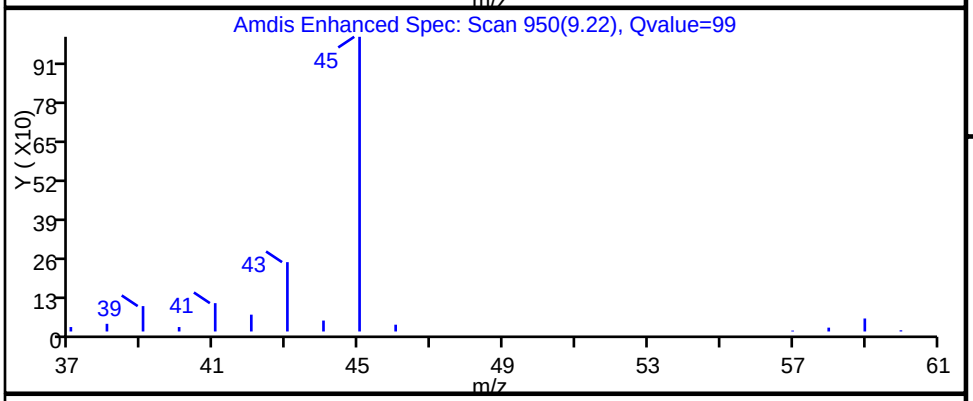
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

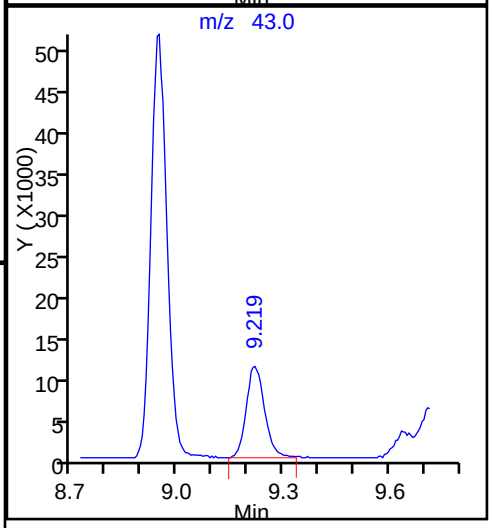
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

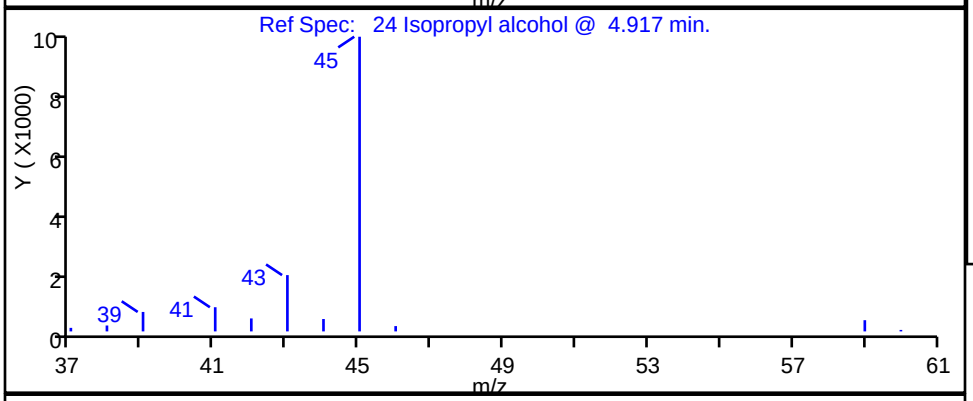
24 Isopropyl alcohol, CAS: 67-63-0

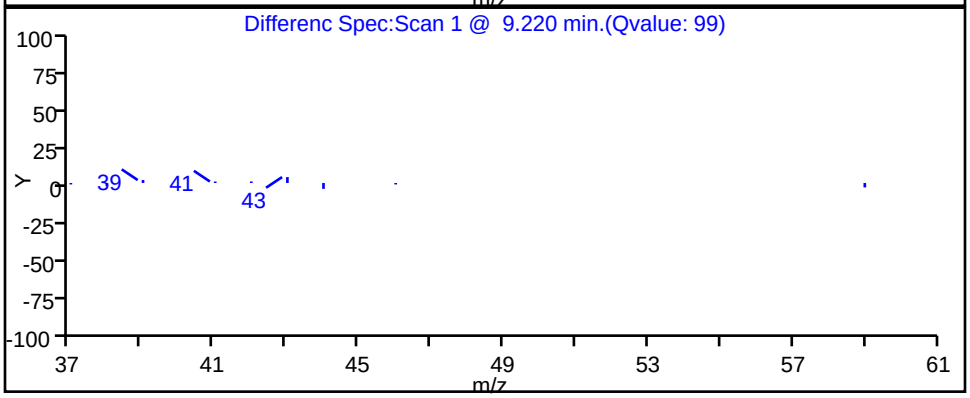












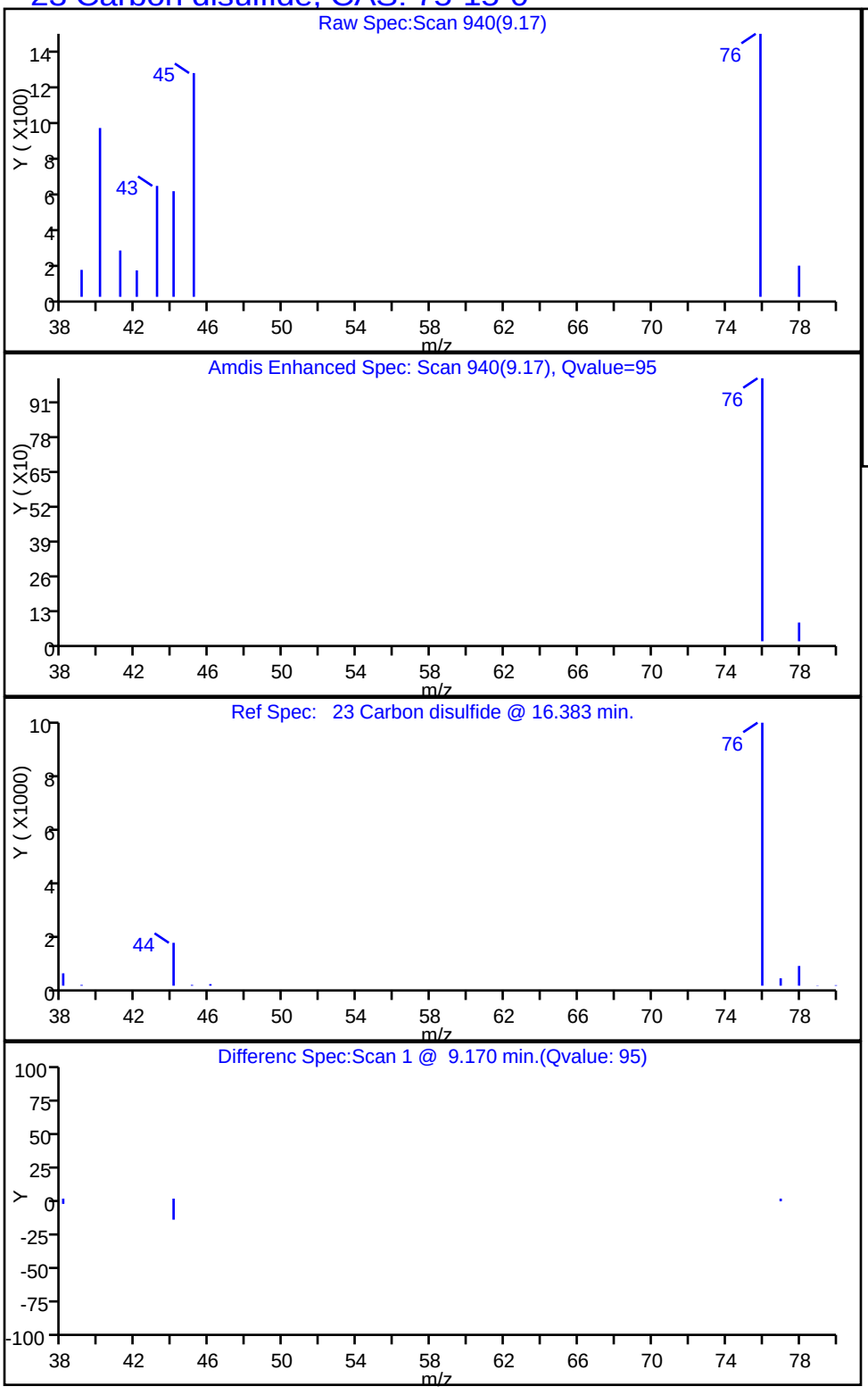
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

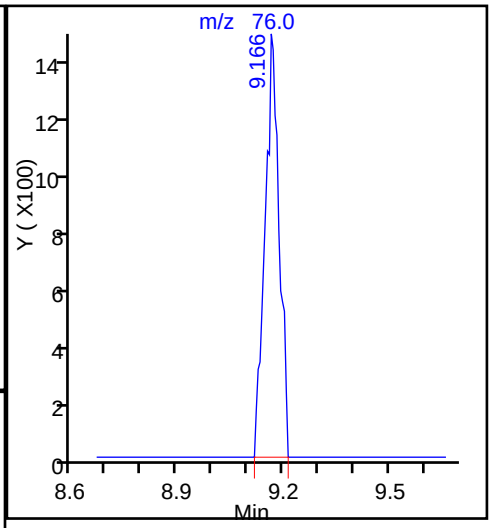
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





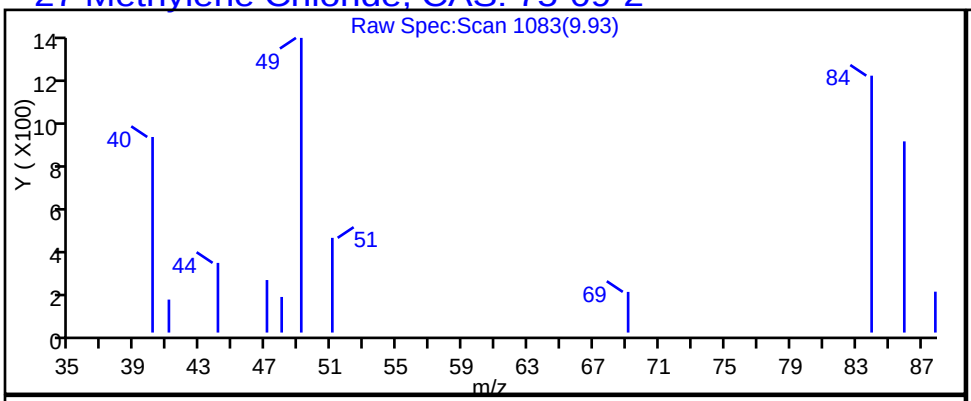
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

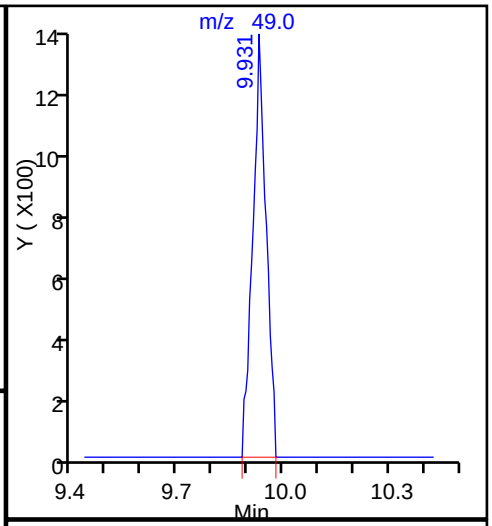
TestAmerica Burlington

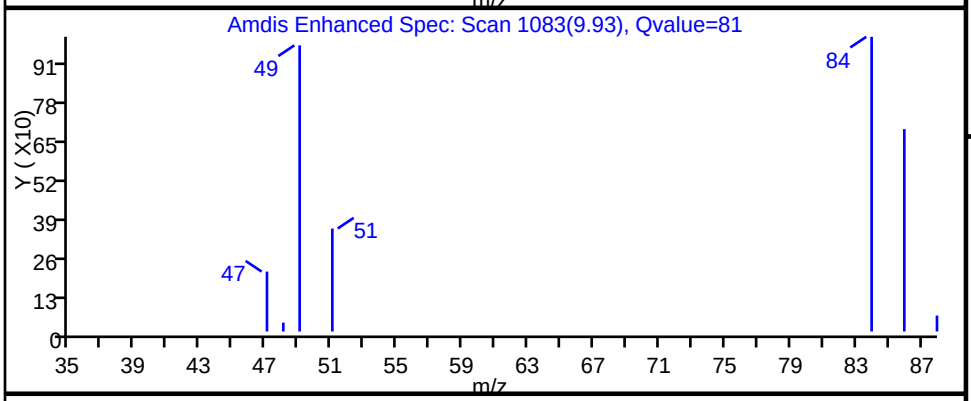
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

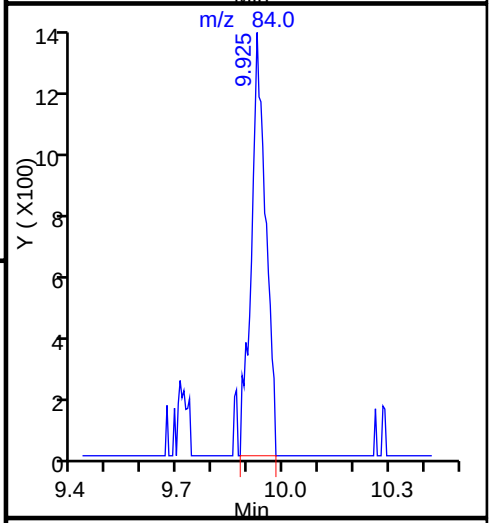
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

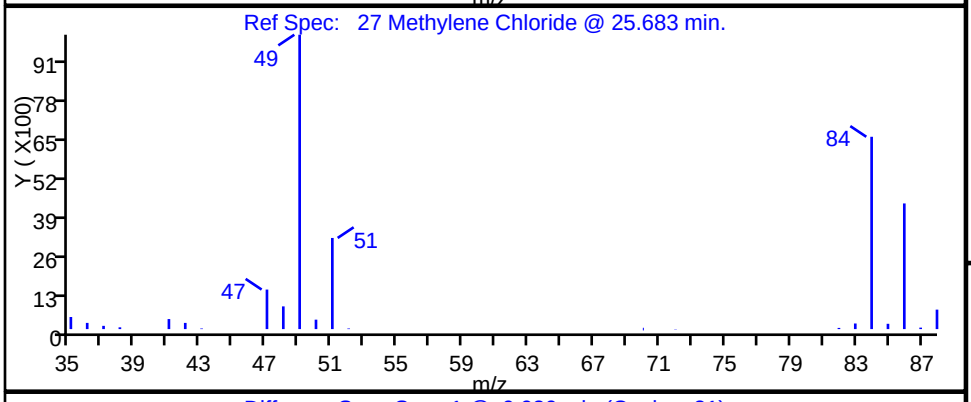
27 Methylene Chloride, CAS: 75-09-2

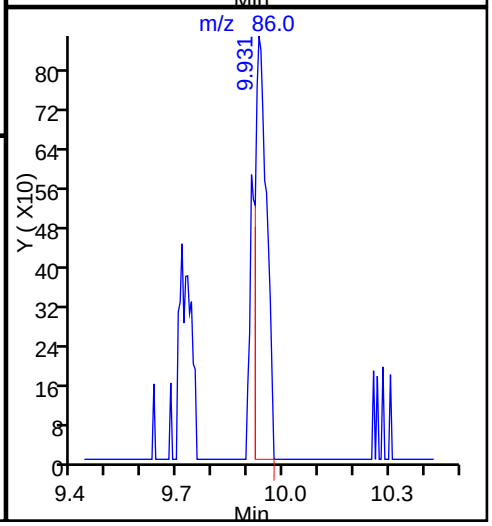


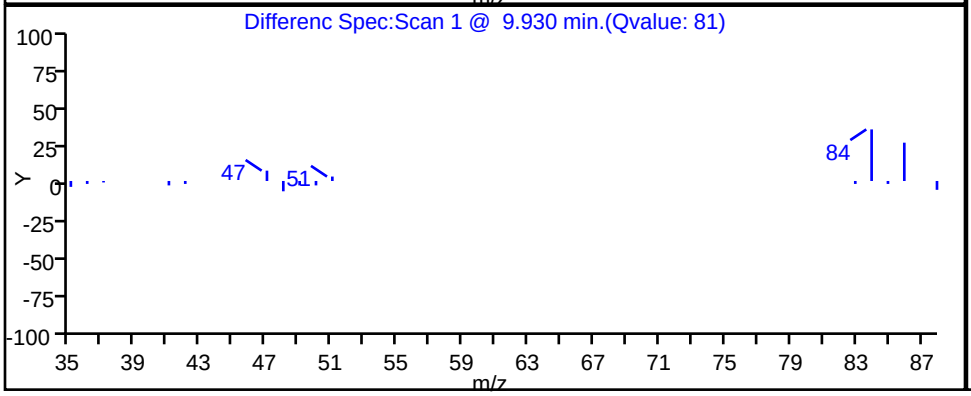












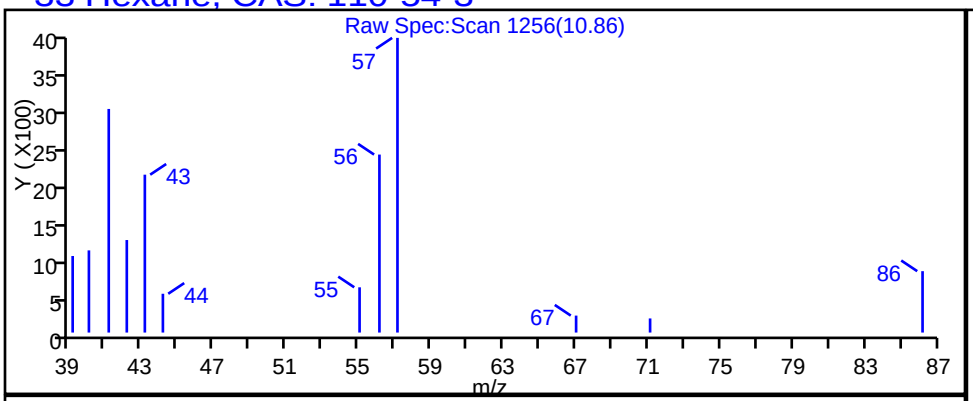
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

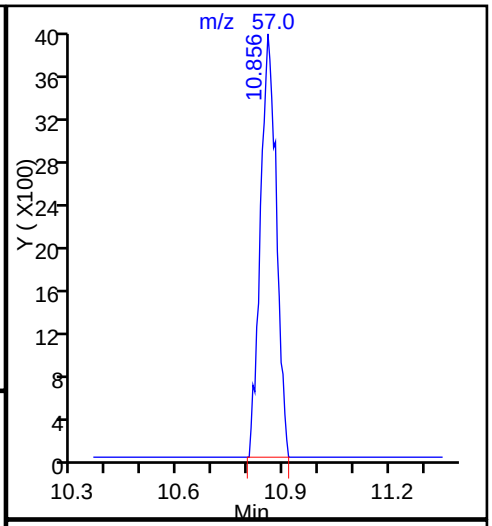
TestAmerica Burlington

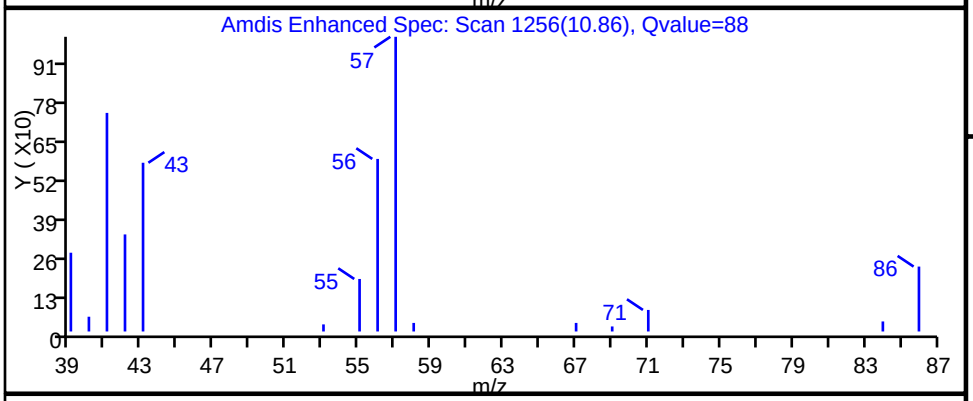
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

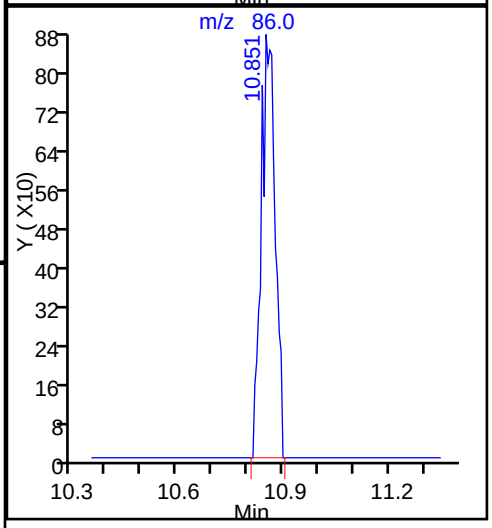
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

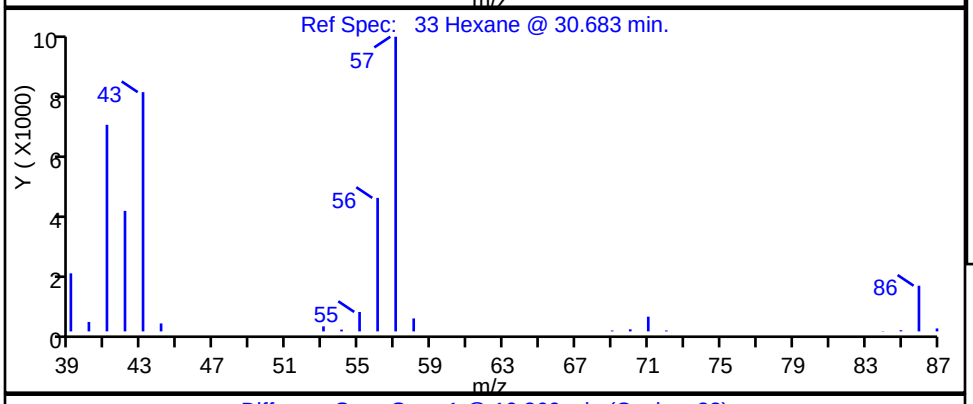
33 Hexane, CAS: 110-54-3

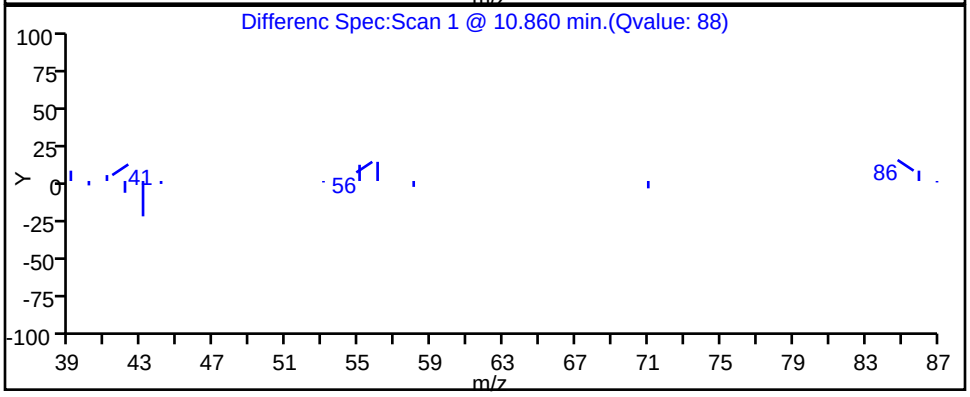












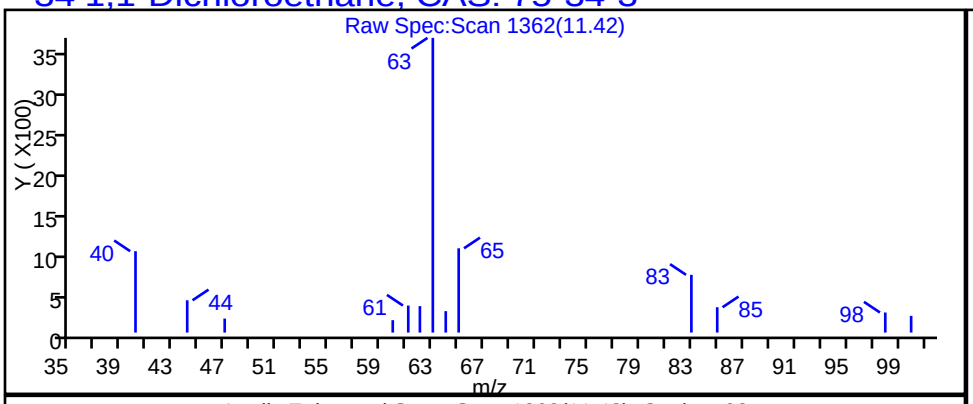
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

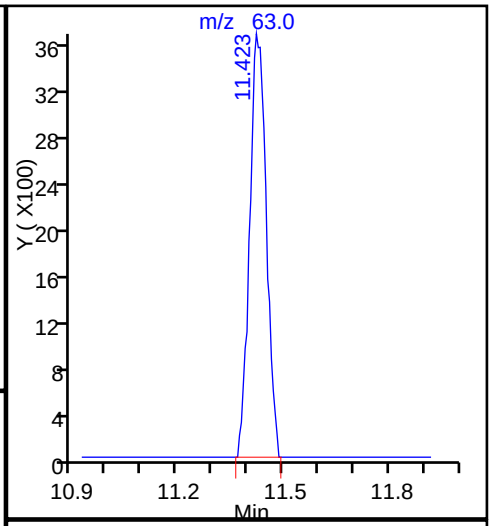
TestAmerica Burlington

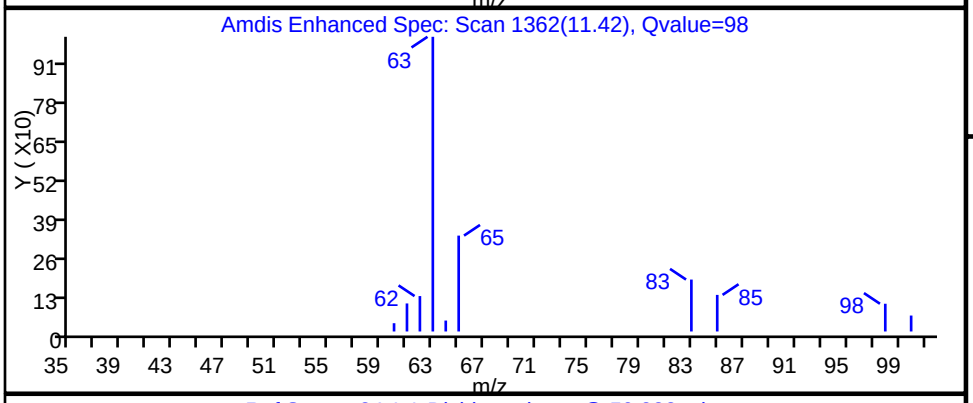
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

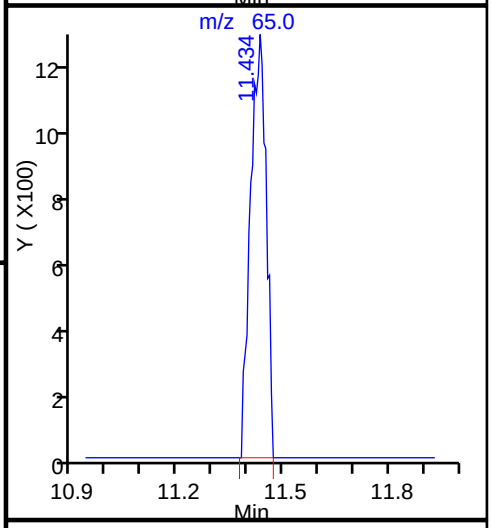
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

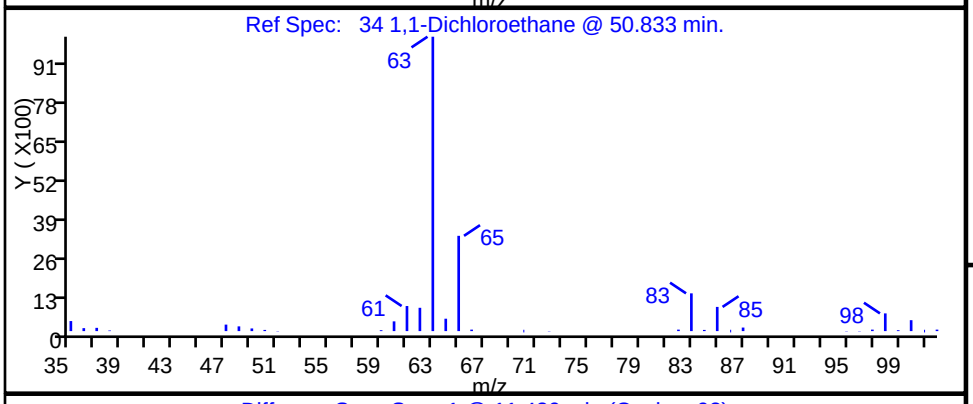
34 1,1-Dichloroethane, CAS: 75-34-3

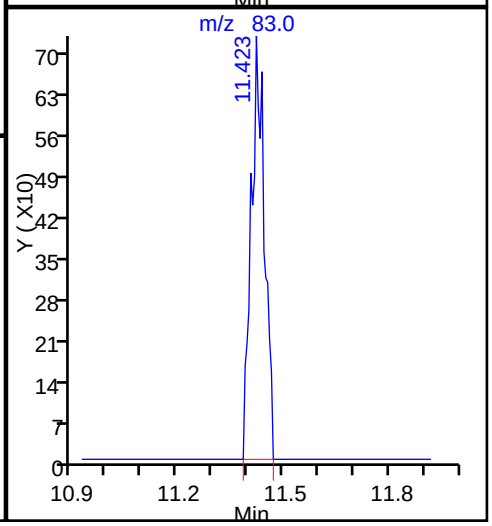


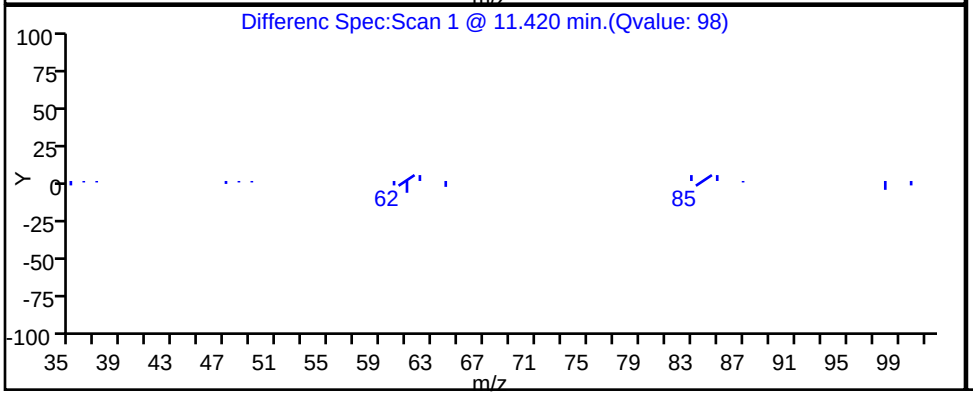












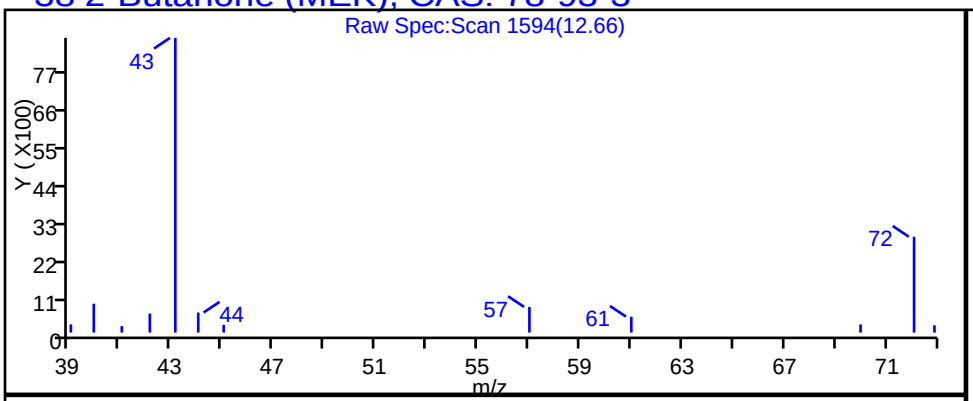
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

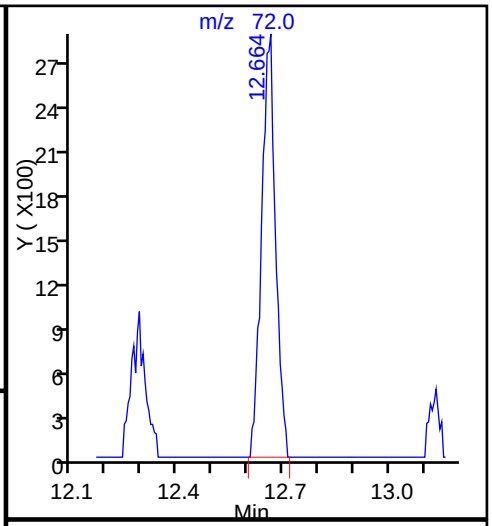
TestAmerica Burlington

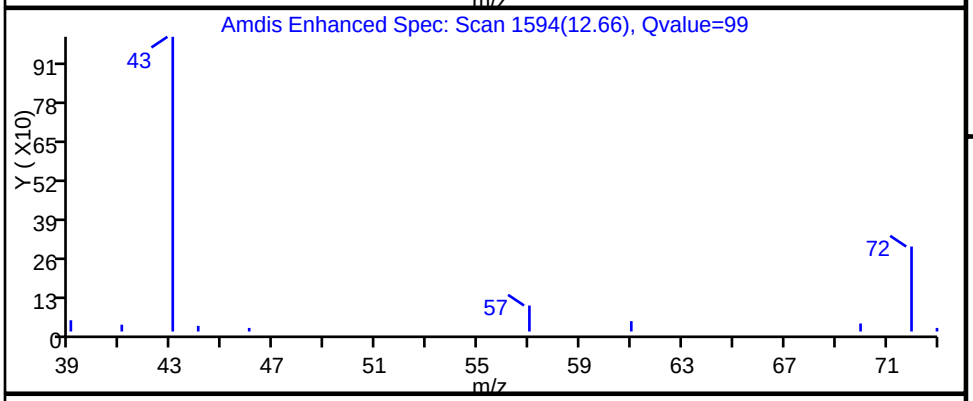
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

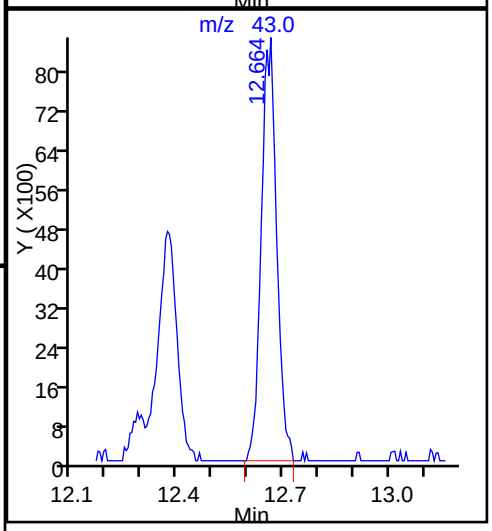
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

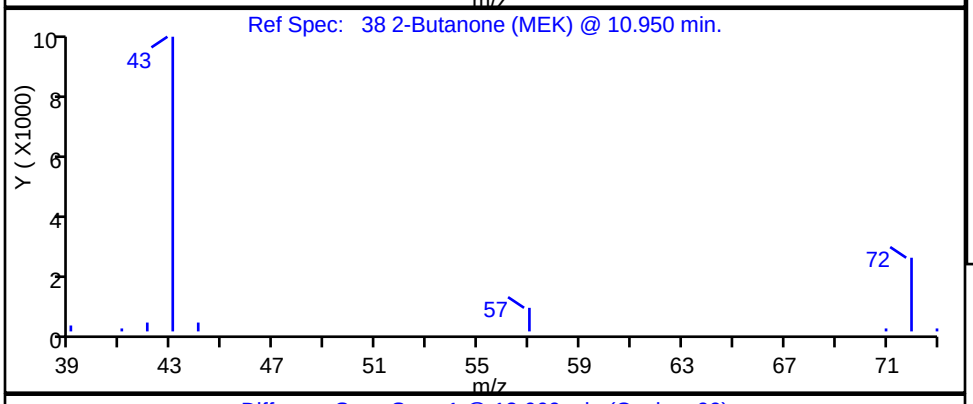
38 2-Butanone (MEK), CAS: 78-93-3

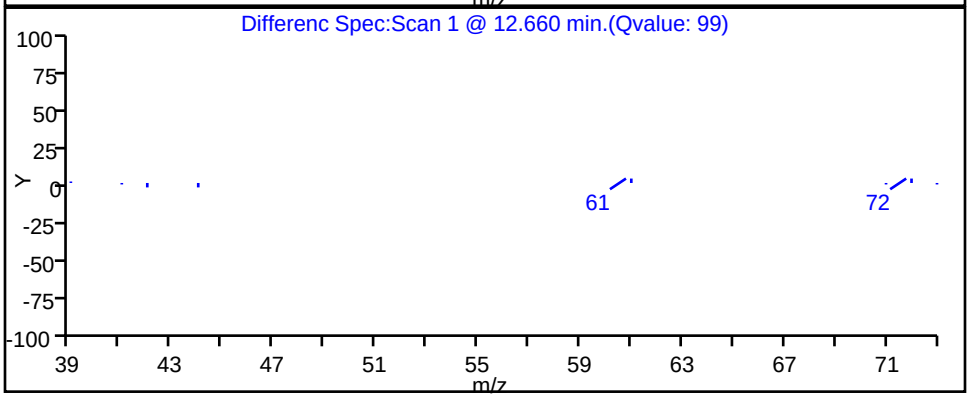










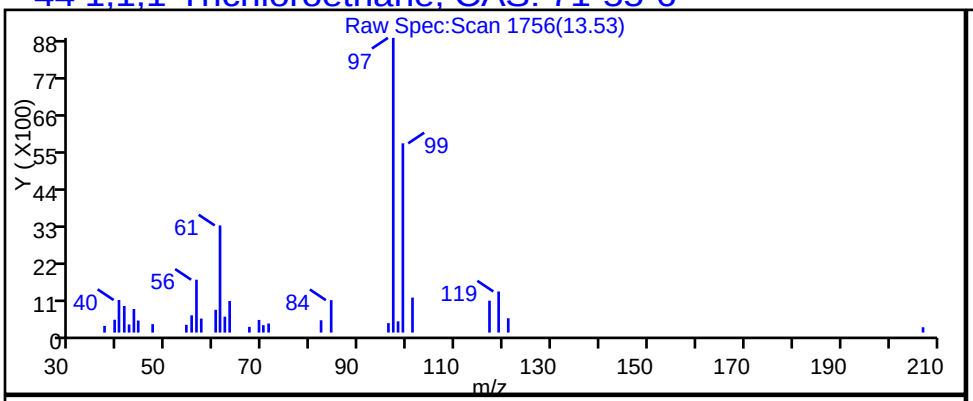


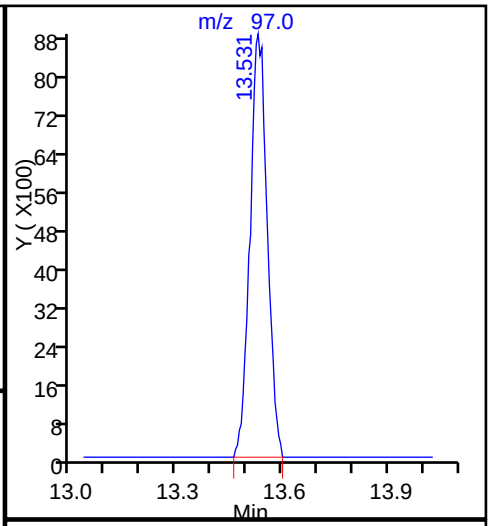
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

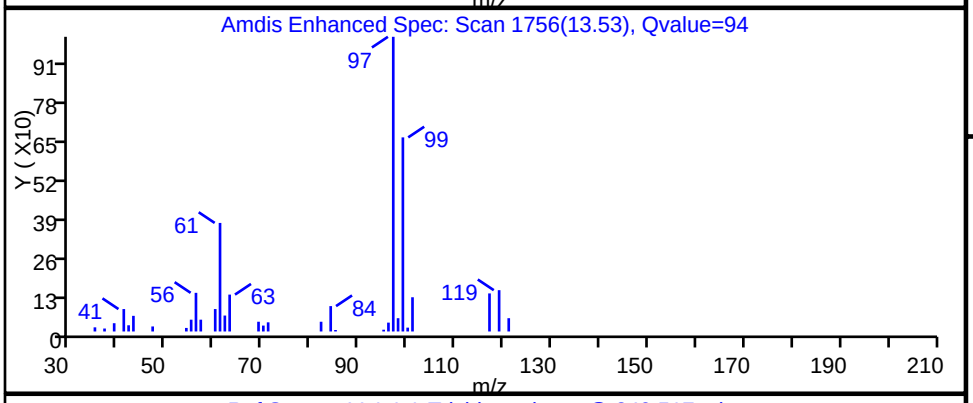
TestAmerica Burlington

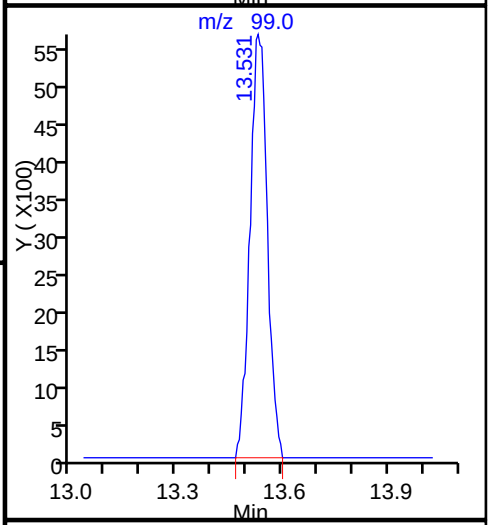
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

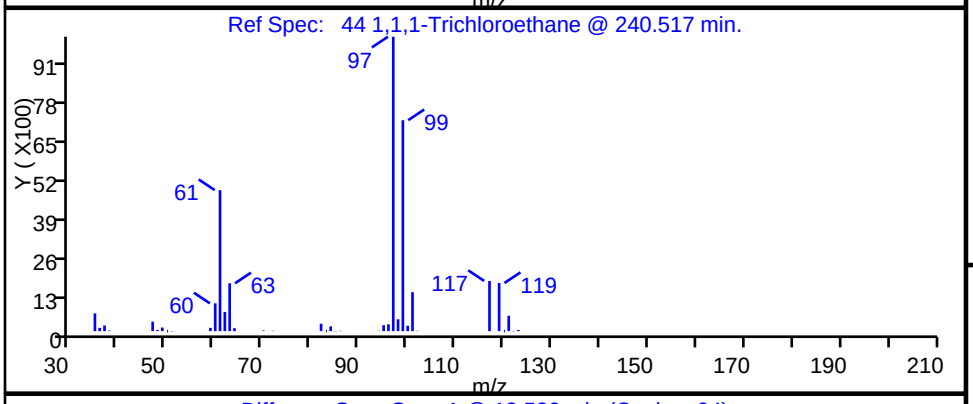
44 1,1,1-Trichloroethane, CAS: 71-55-6

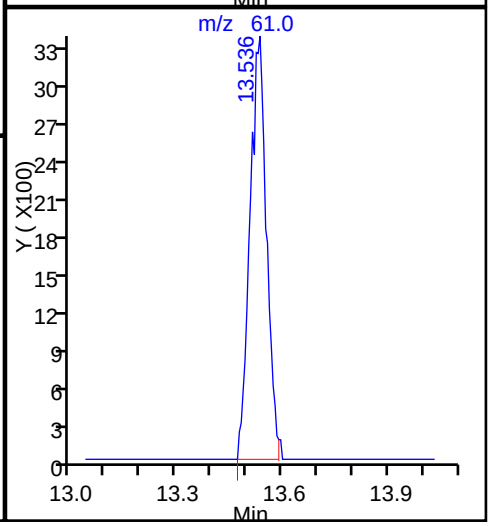


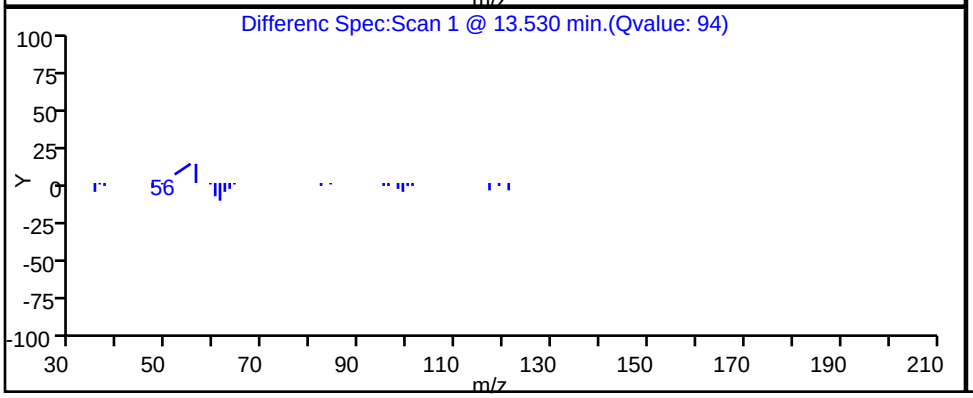










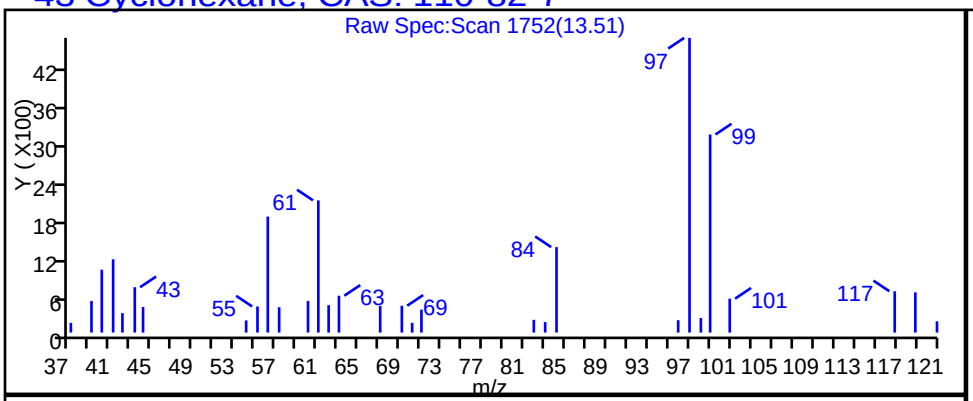


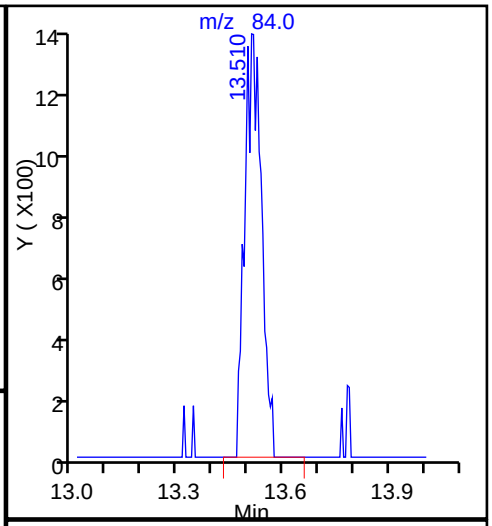
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

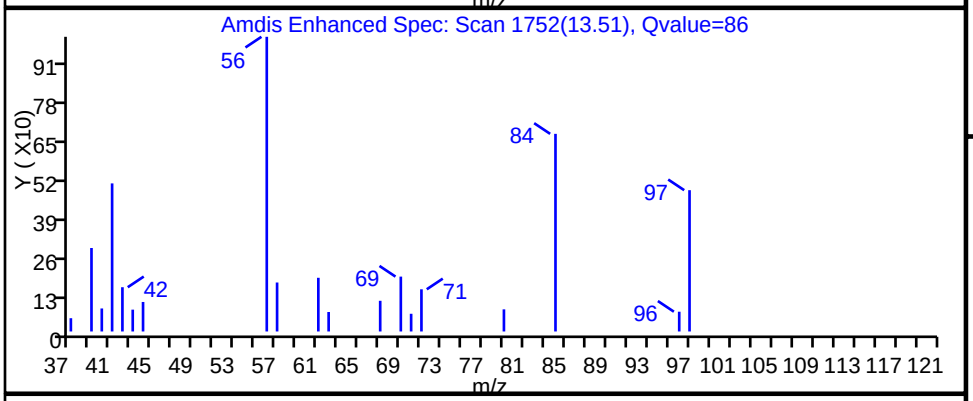
TestAmerica Burlington

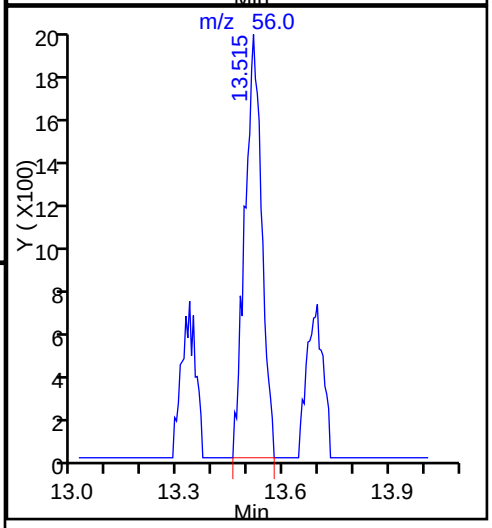
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

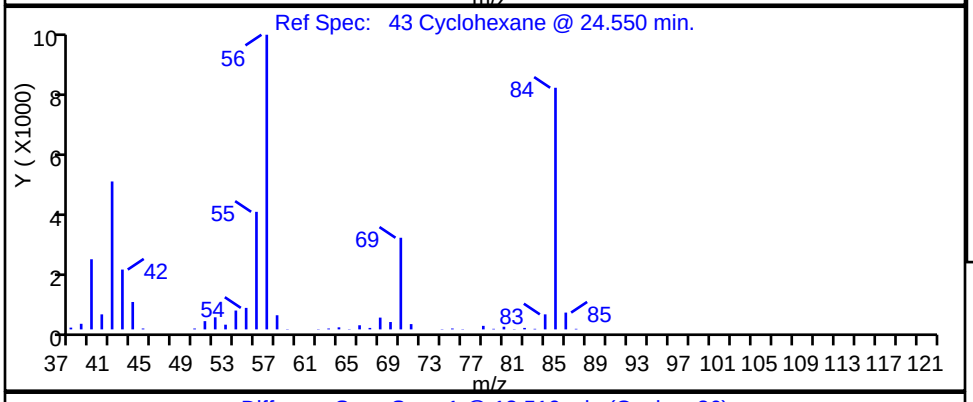
43 Cyclohexane, CAS: 110-82-7

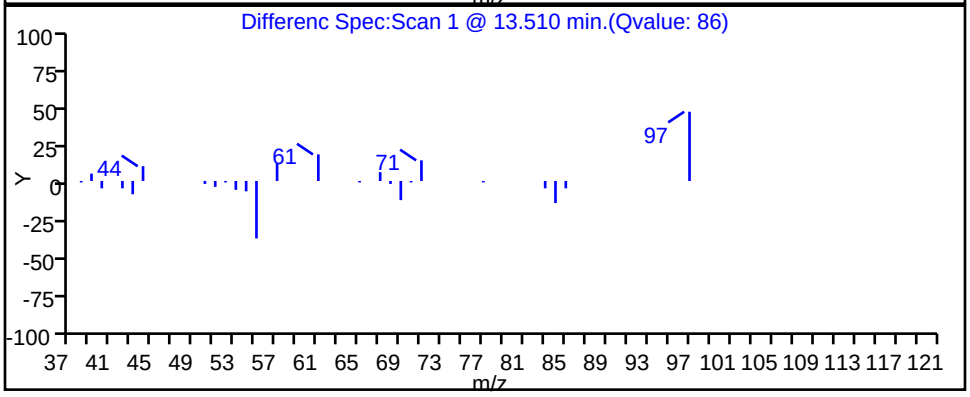










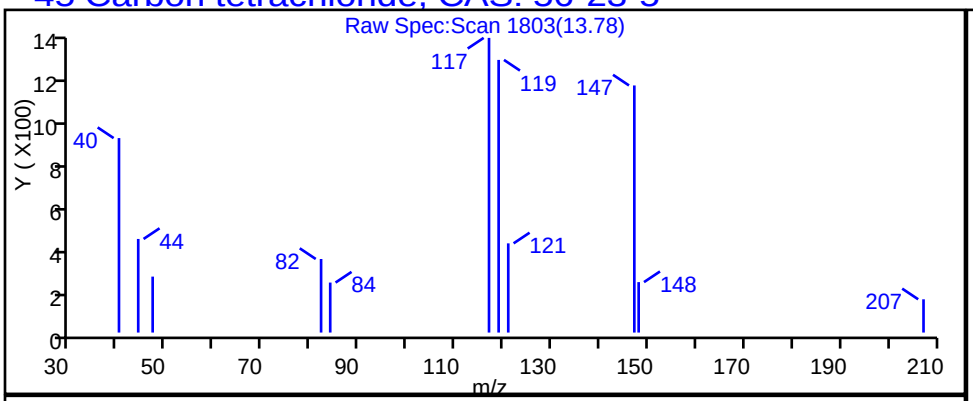


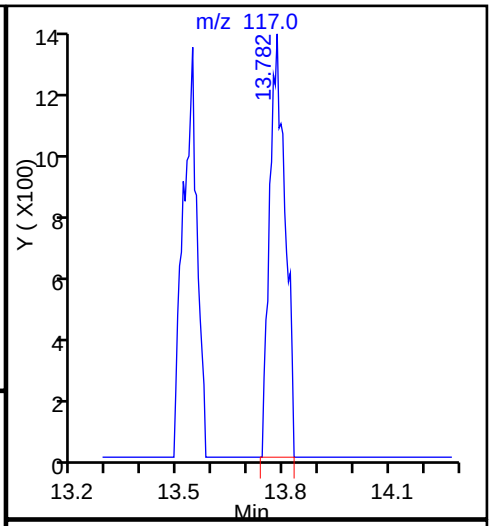
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

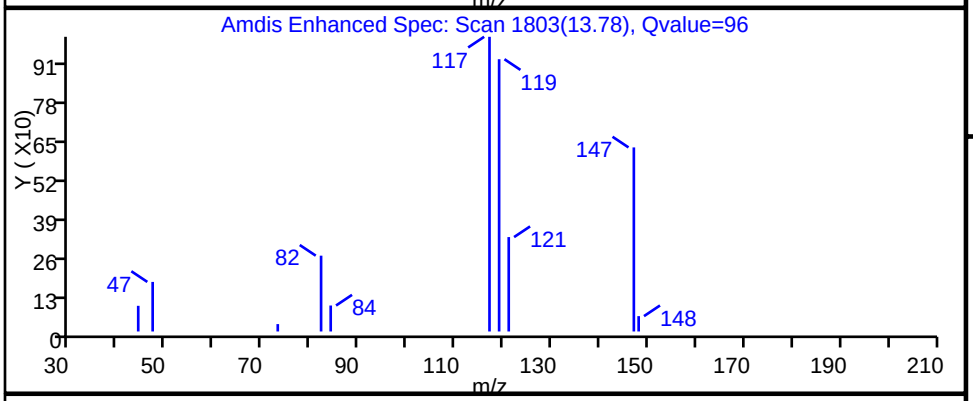
TestAmerica Burlington

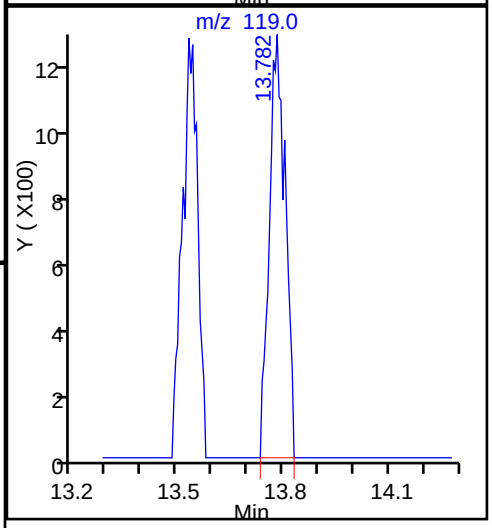
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

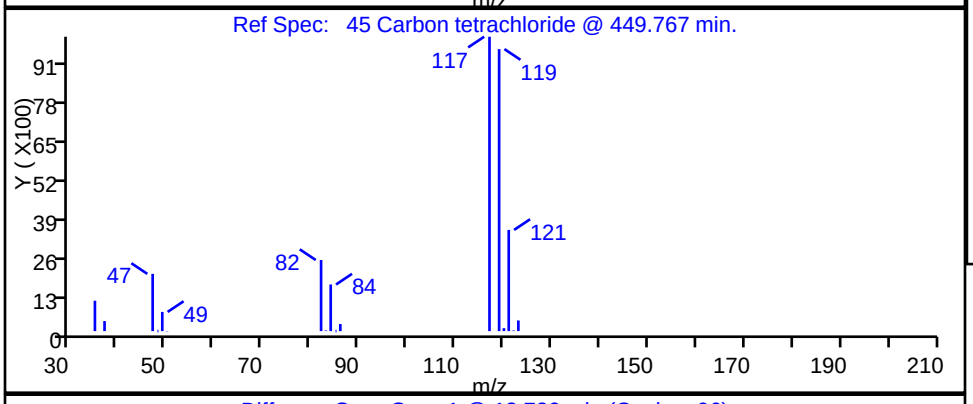
45 Carbon tetrachloride, CAS: 56-23-5

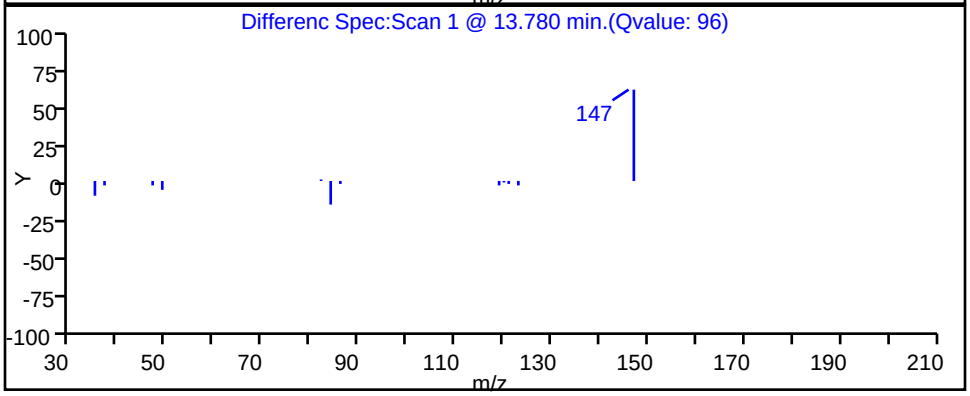












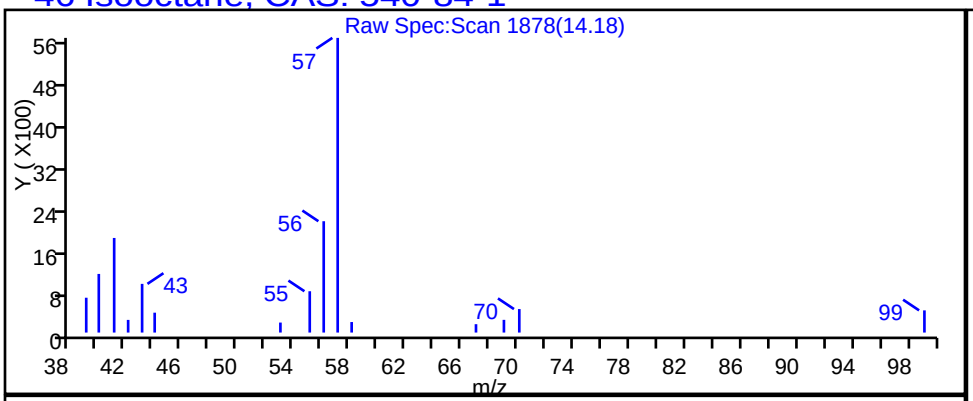
Report Date: 30-Sep-2015 14:17:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

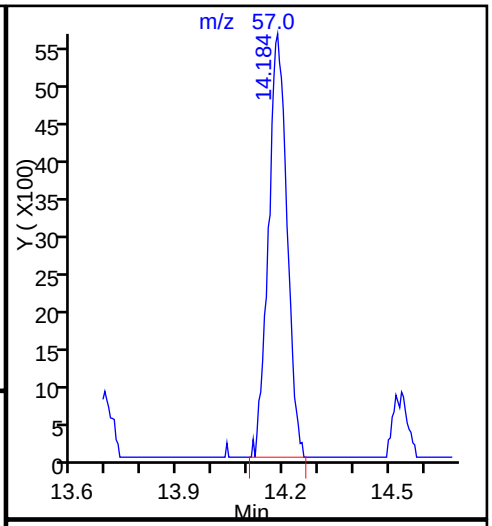
TestAmerica Burlington

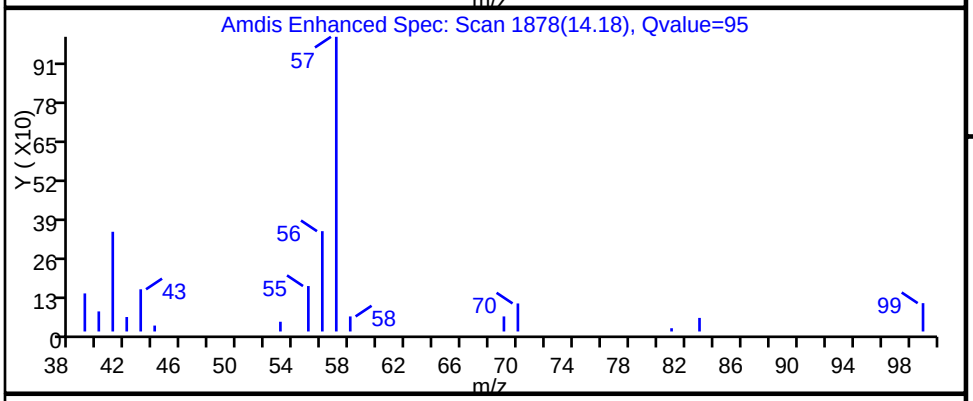
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

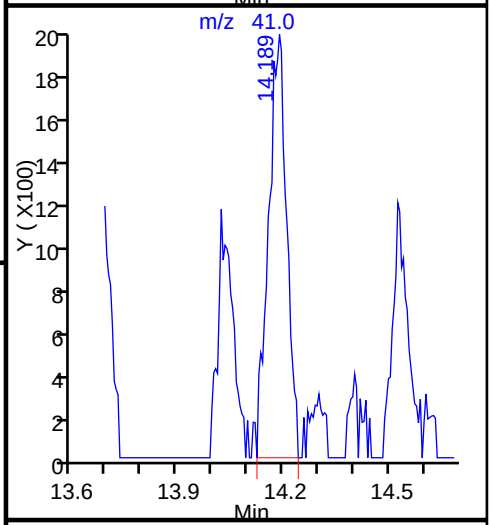
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

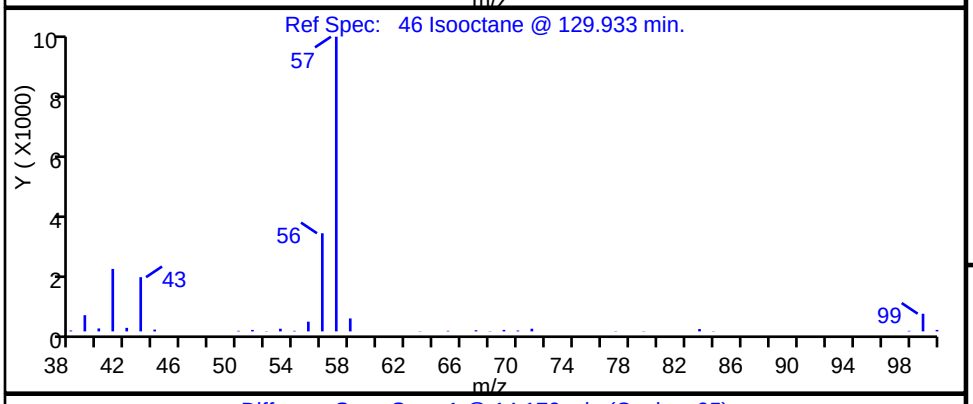
46 Isooctane, CAS: 540-84-1

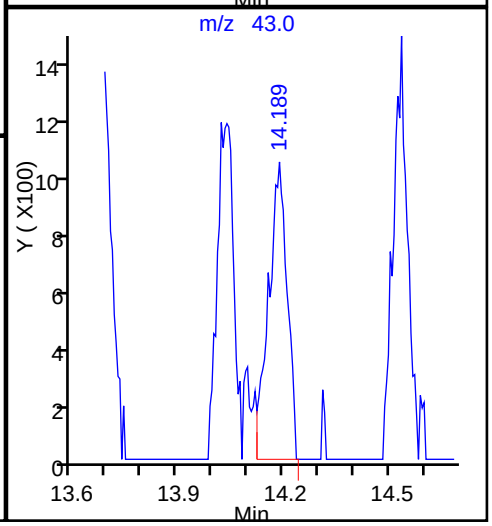


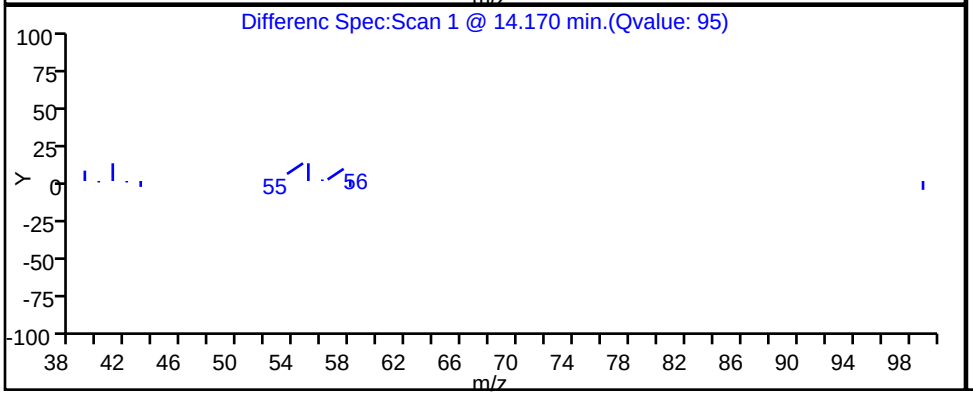












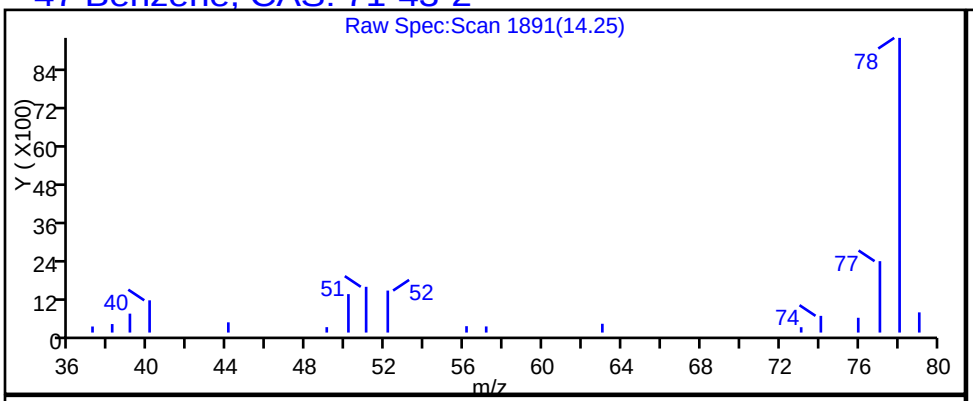
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

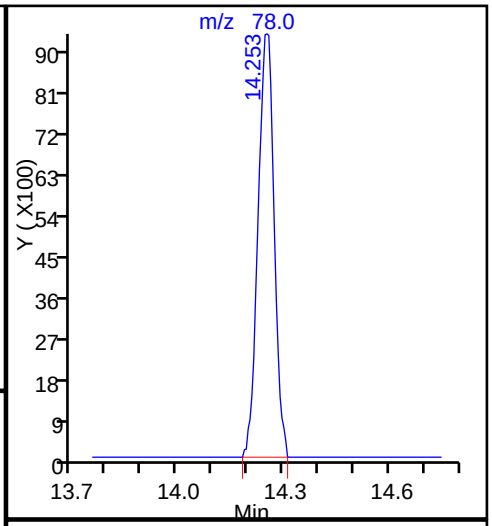
TestAmerica Burlington

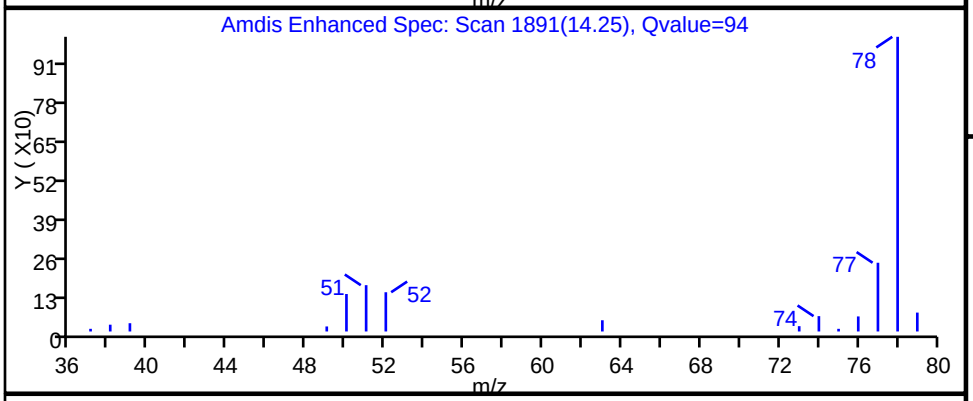
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

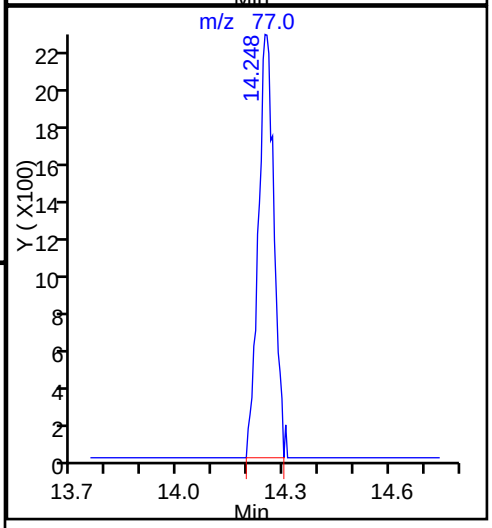
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

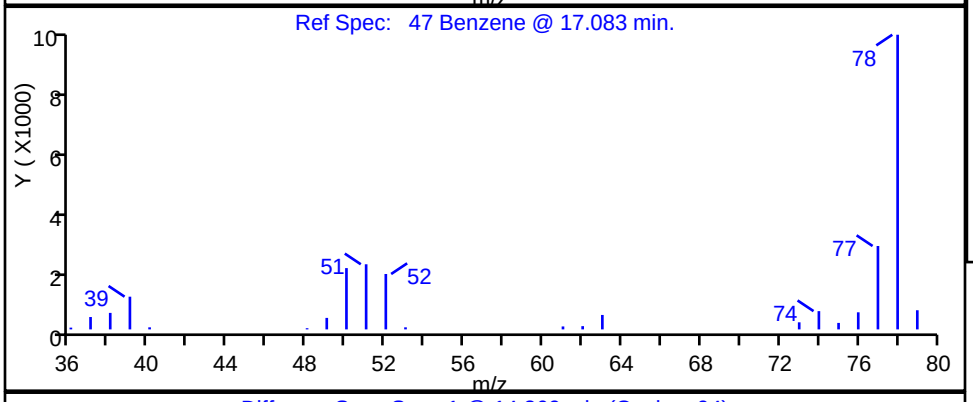
47 Benzene, CAS: 71-43-2

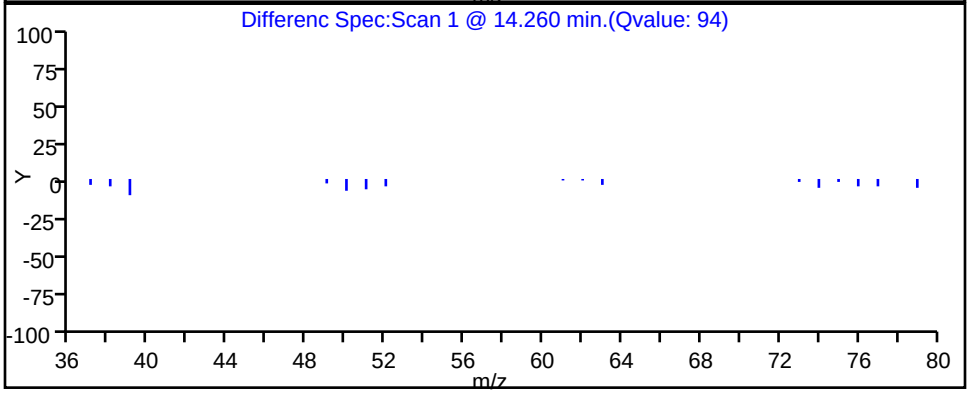












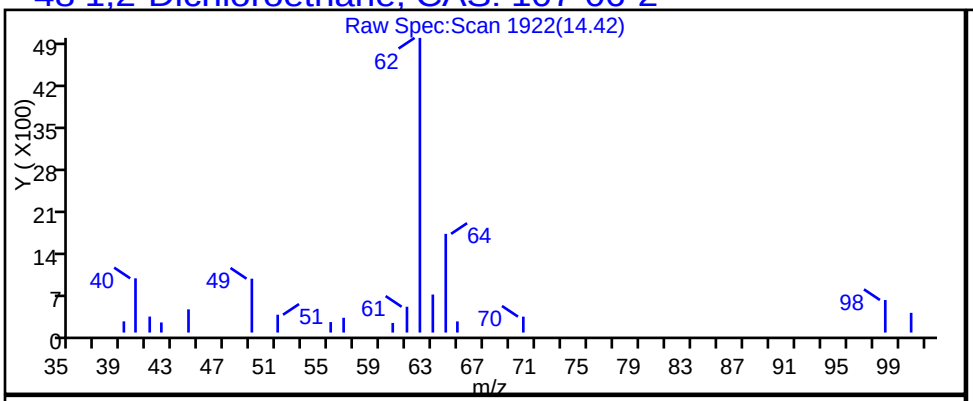
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

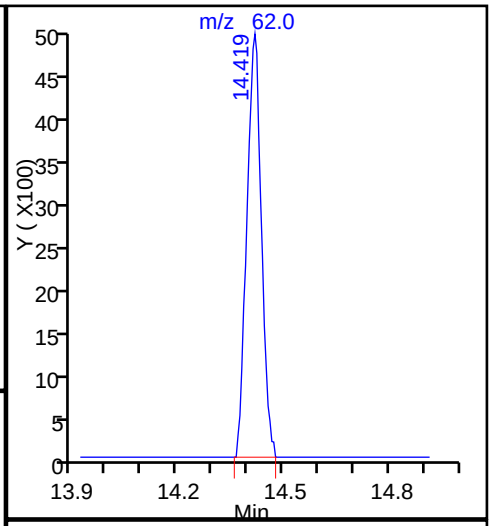
TestAmerica Burlington

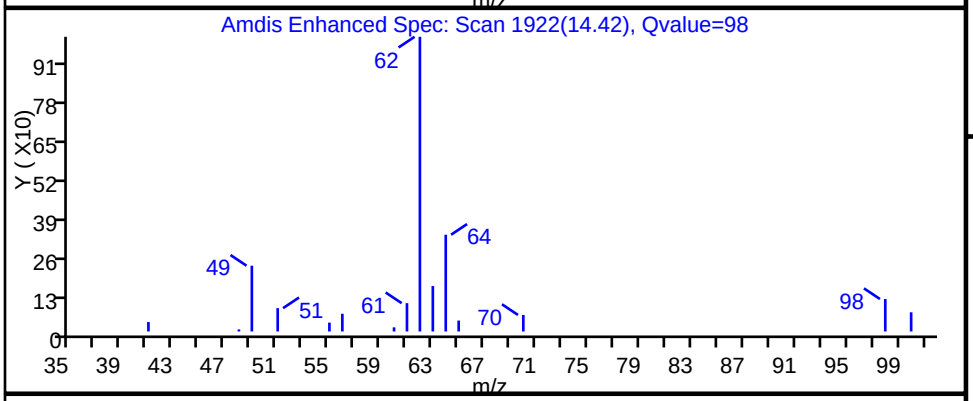
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

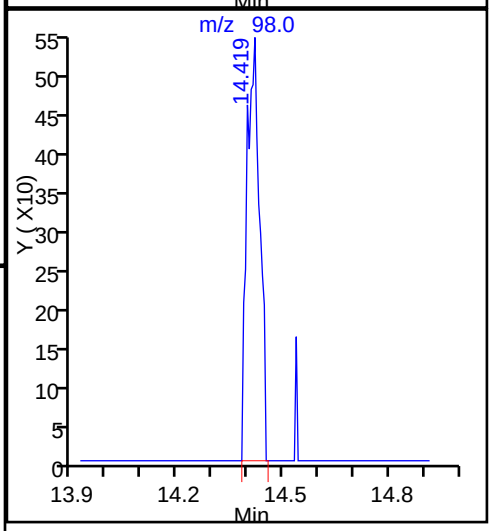
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

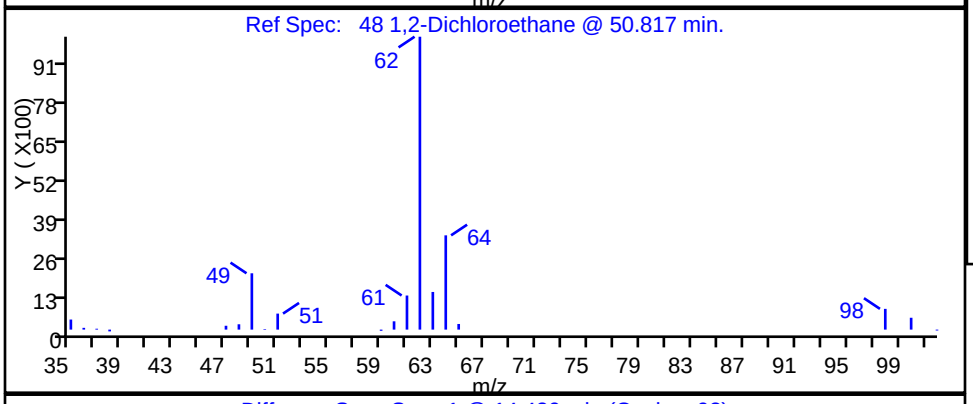
48 1,2-Dichloroethane, CAS: 107-06-2

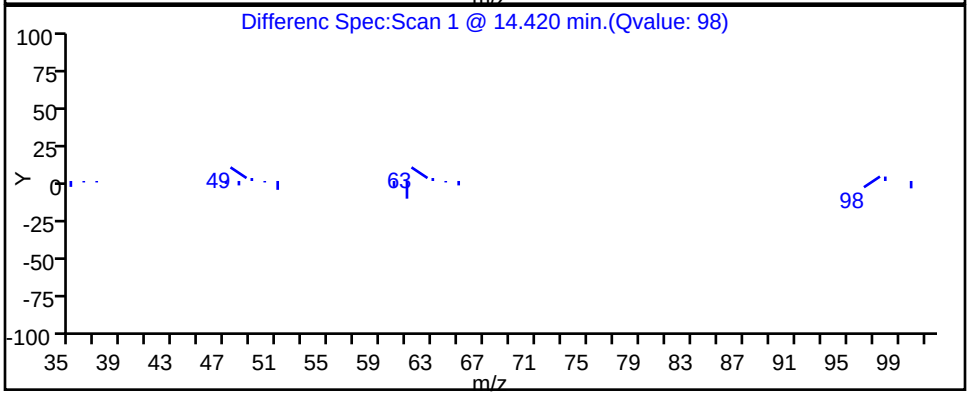












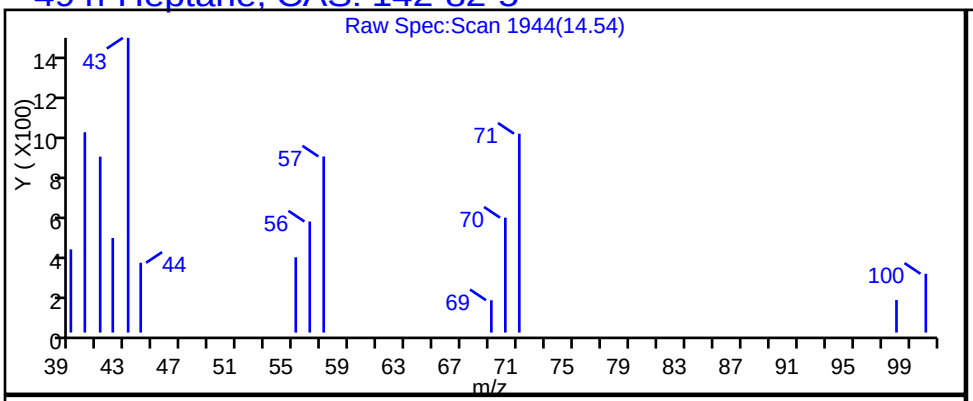
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

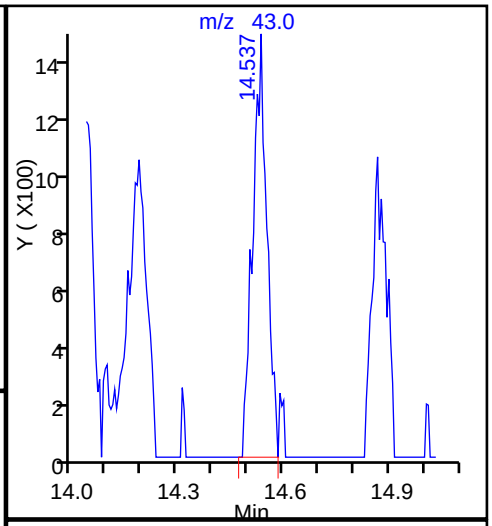
TestAmerica Burlington

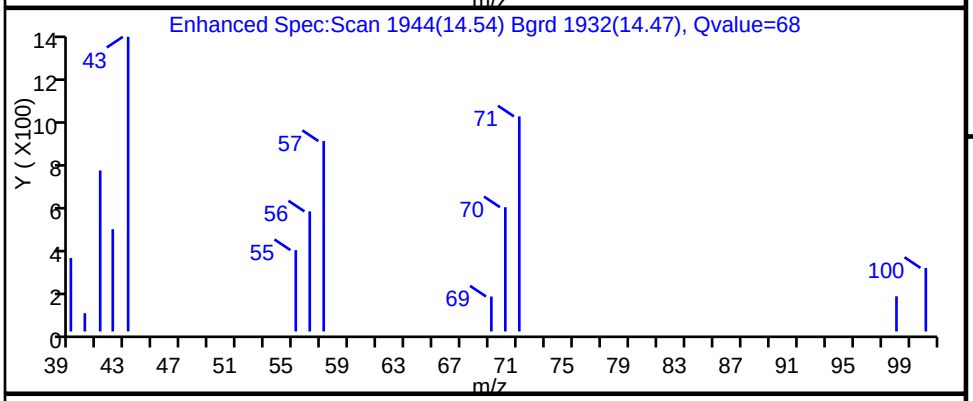
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

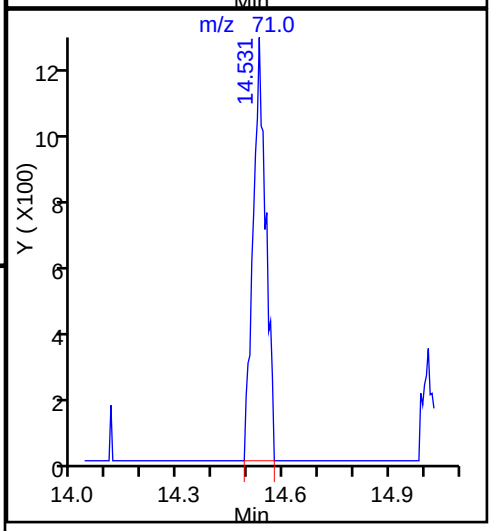
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

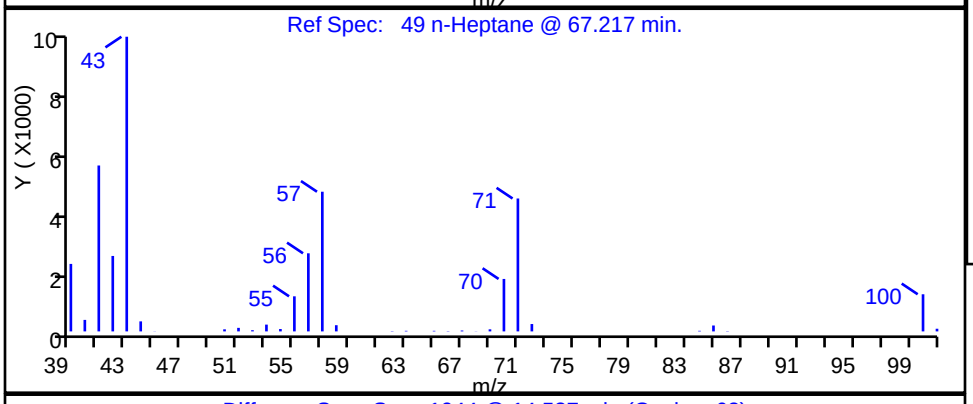
49 n-Heptane, CAS: 142-82-5

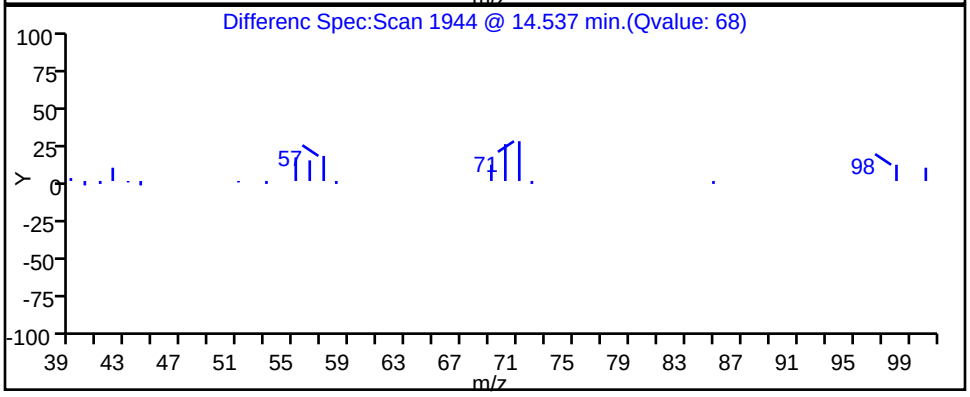










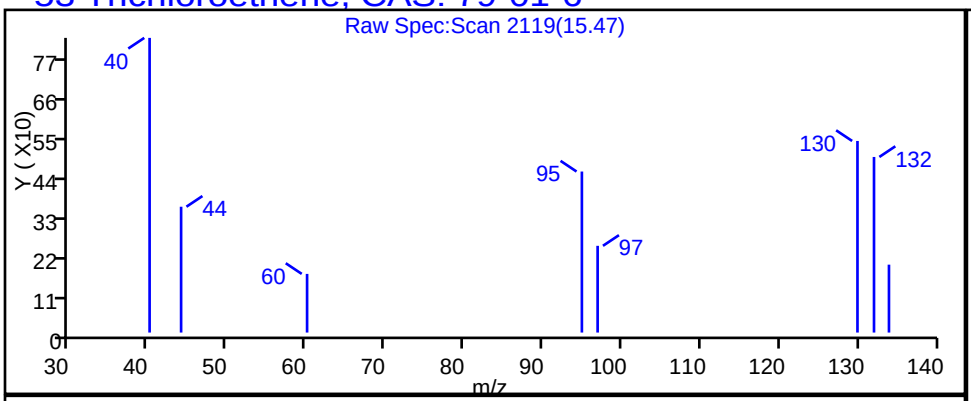


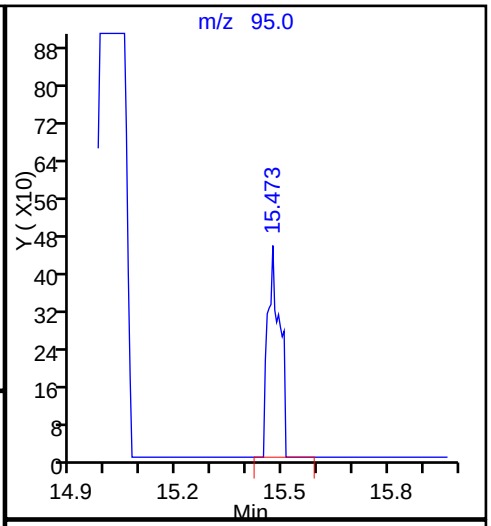
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

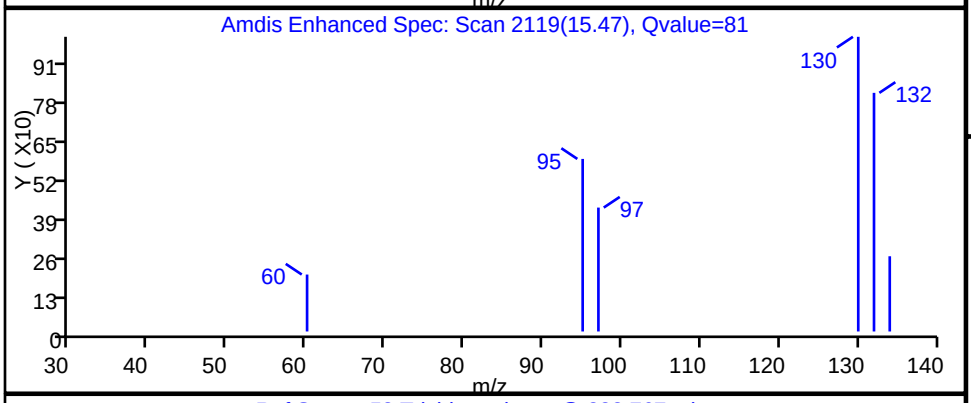
TestAmerica Burlington

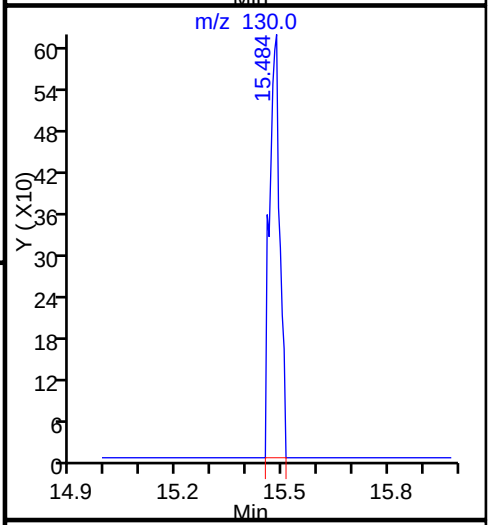
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

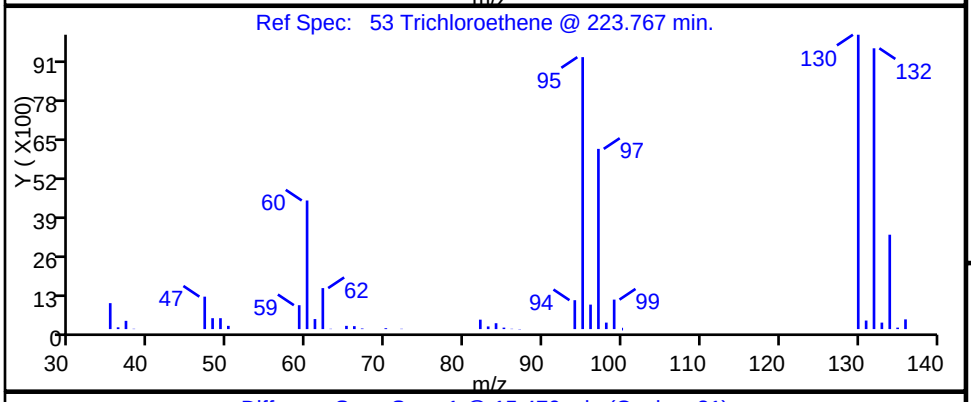
53 Trichloroethene, CAS: 79-01-6

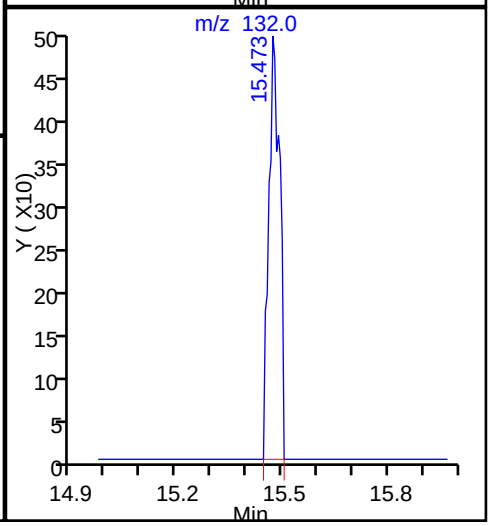


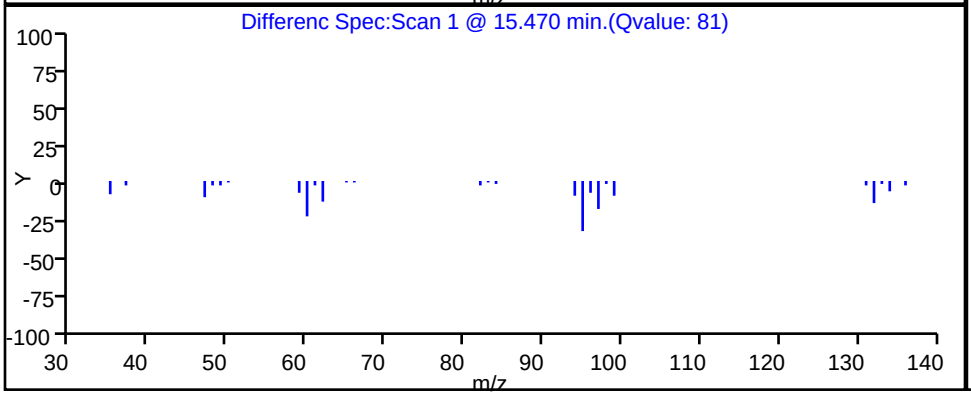










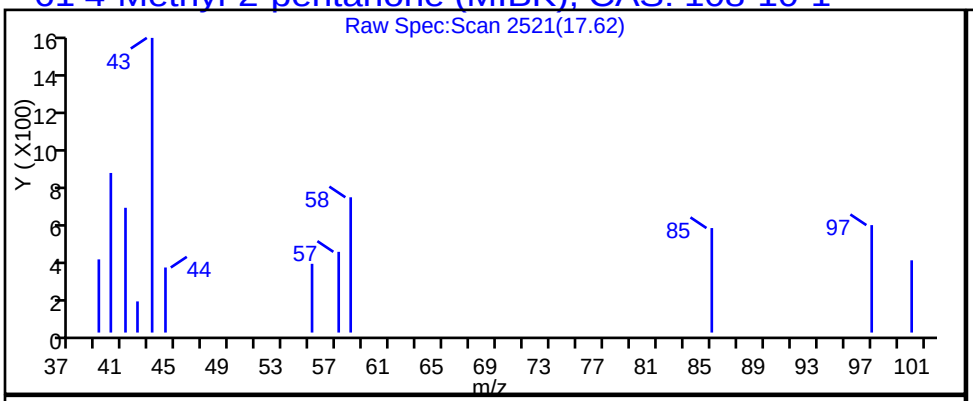


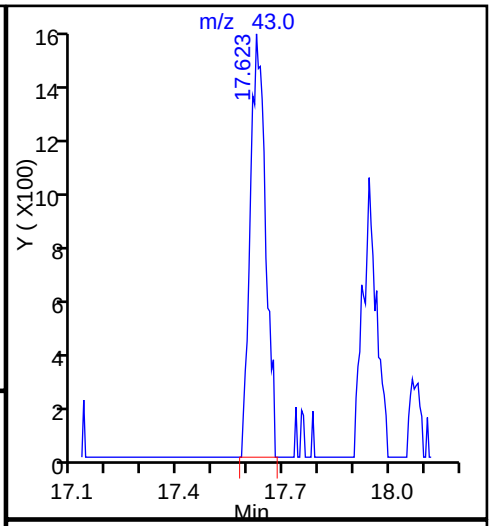
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

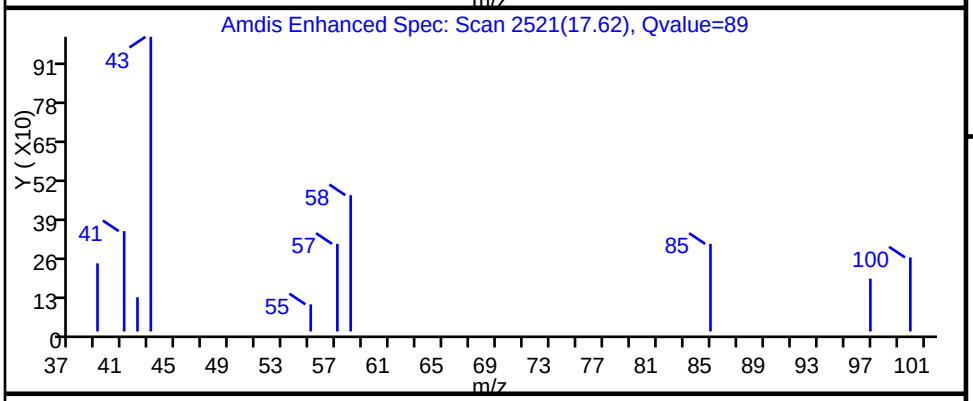
TestAmerica Burlington

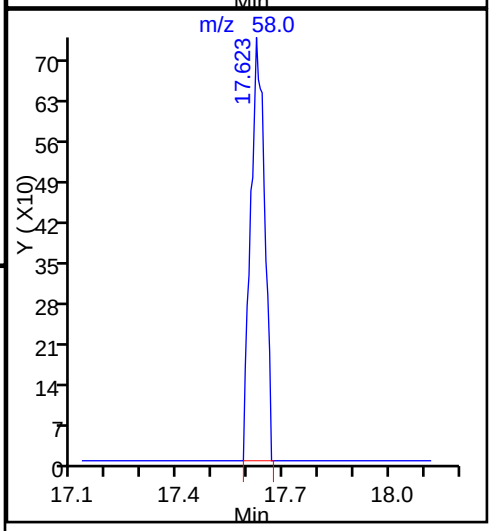
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

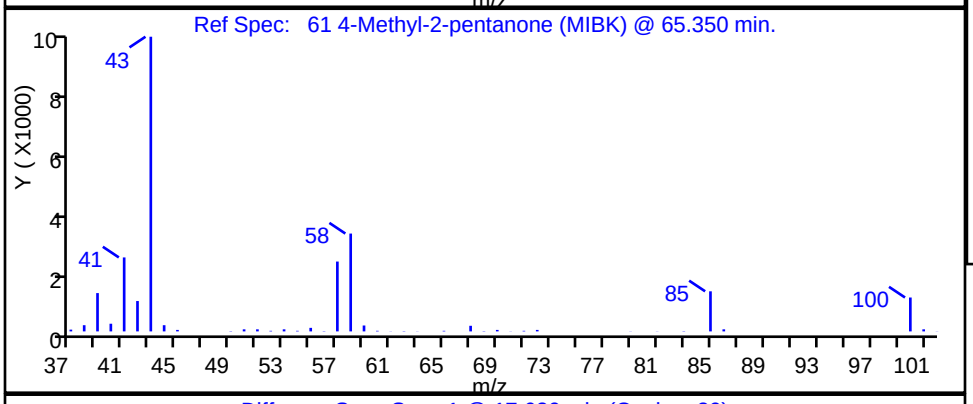
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

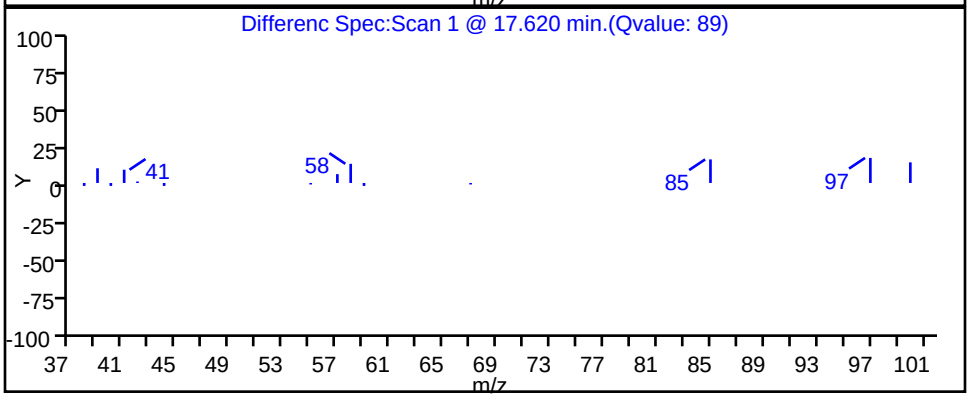










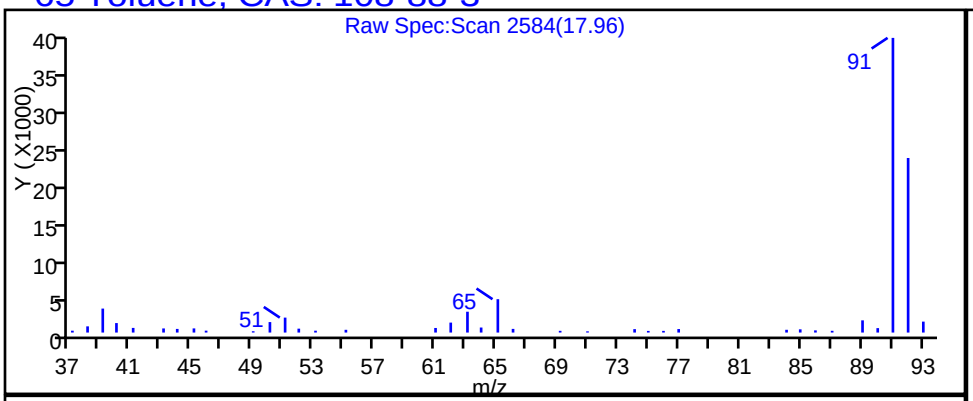


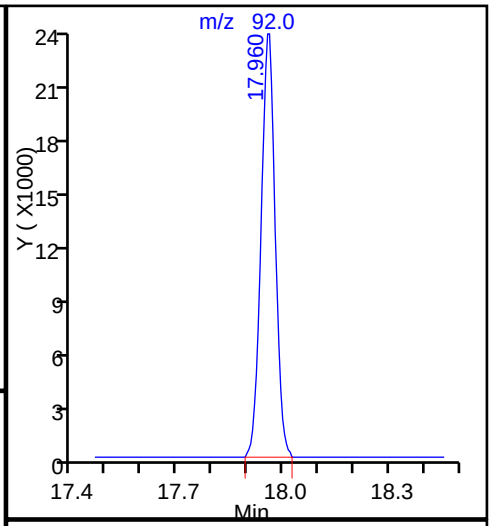
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

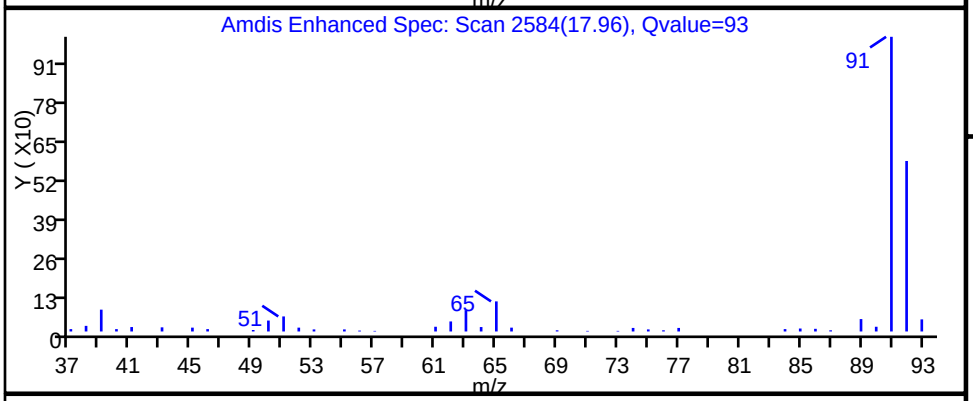
TestAmerica Burlington

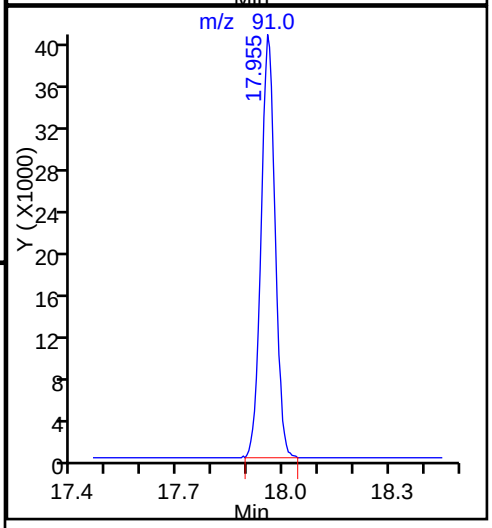
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

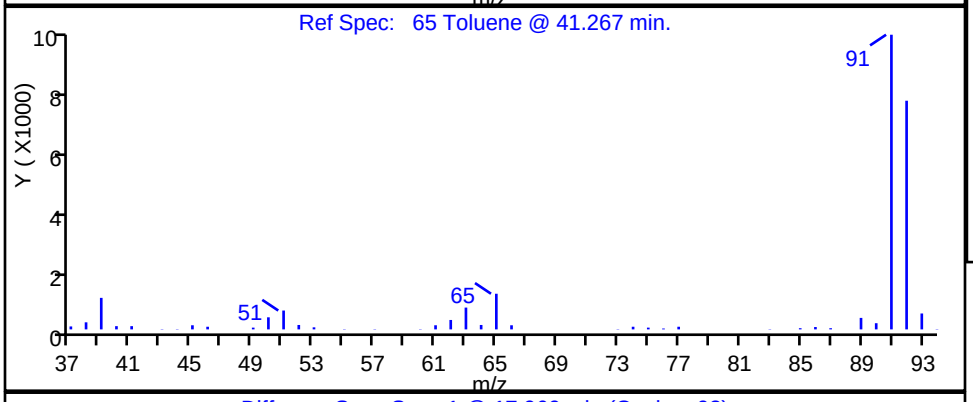
65 Toluene, CAS: 108-88-3

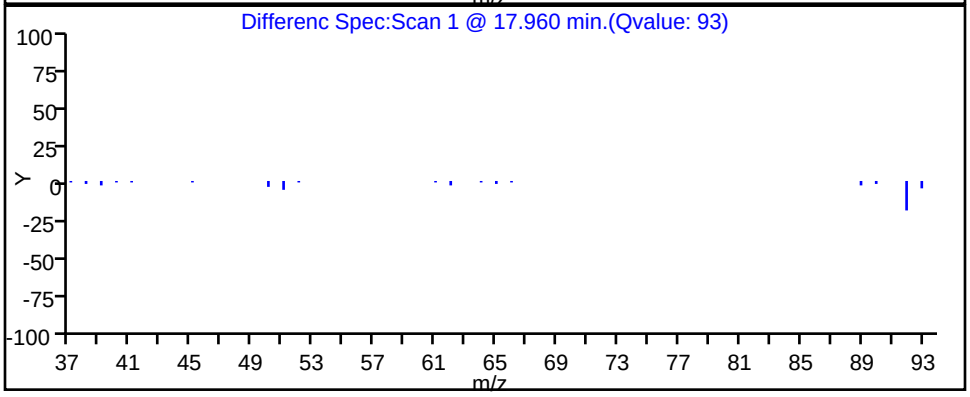












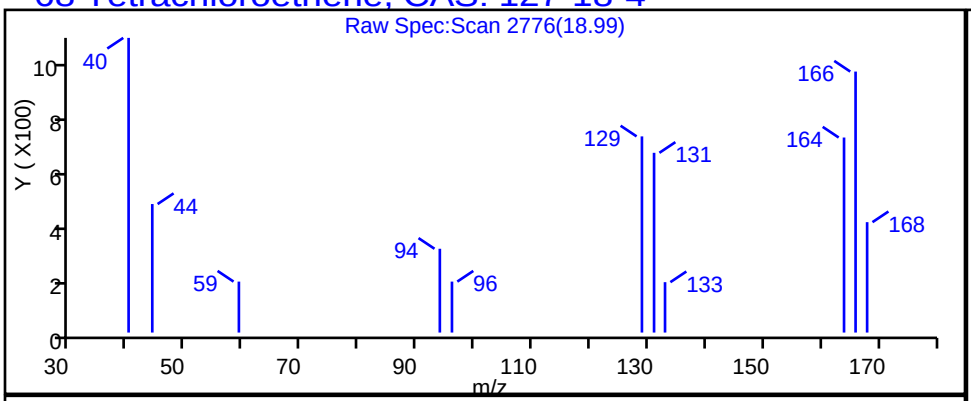
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

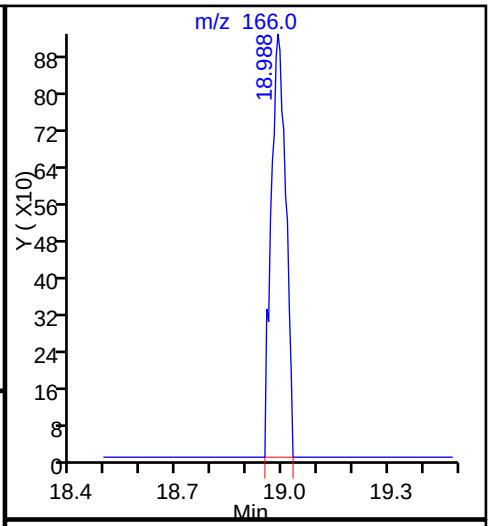
TestAmerica Burlington

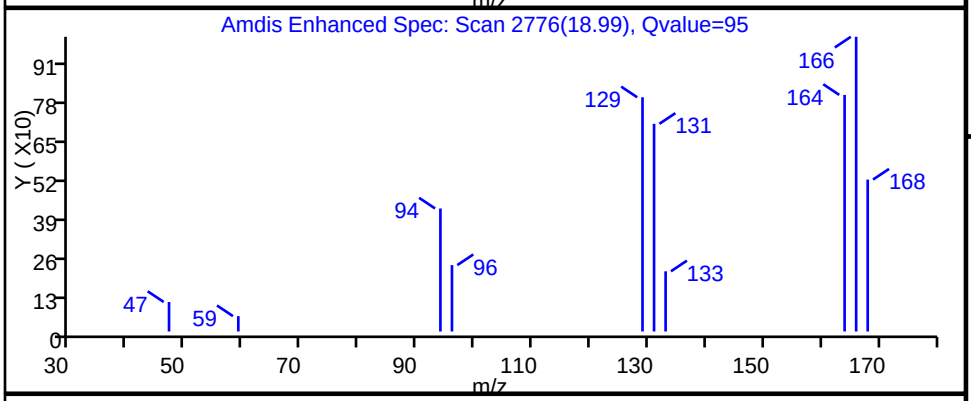
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

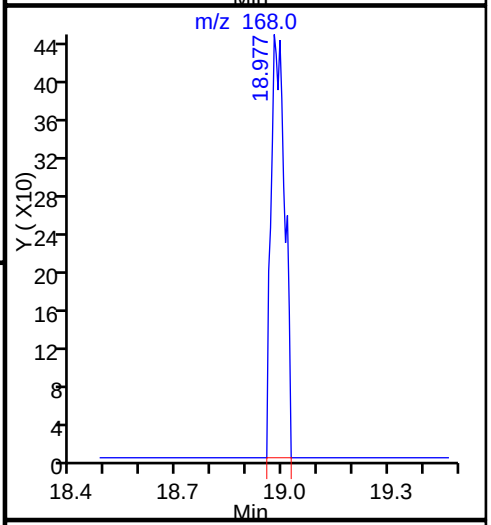
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

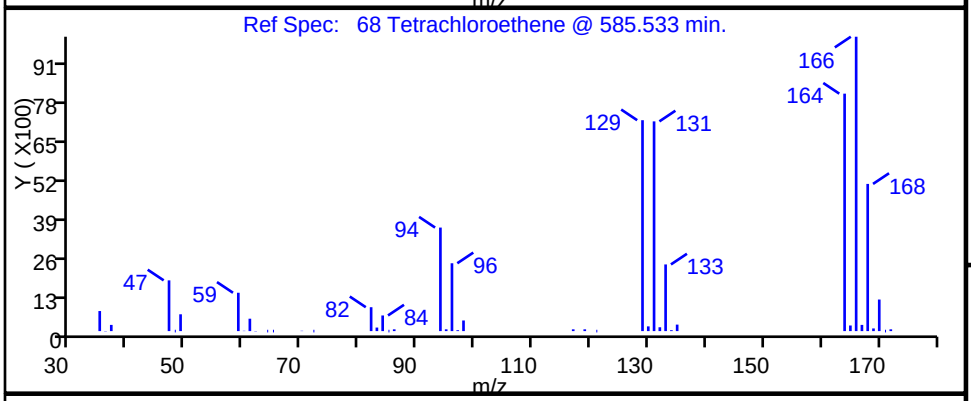
68 Tetrachloroethene, CAS: 127-18-4

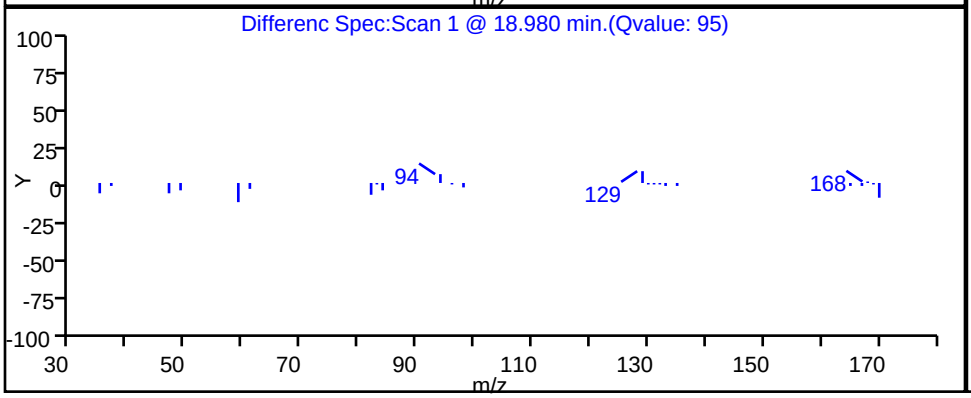


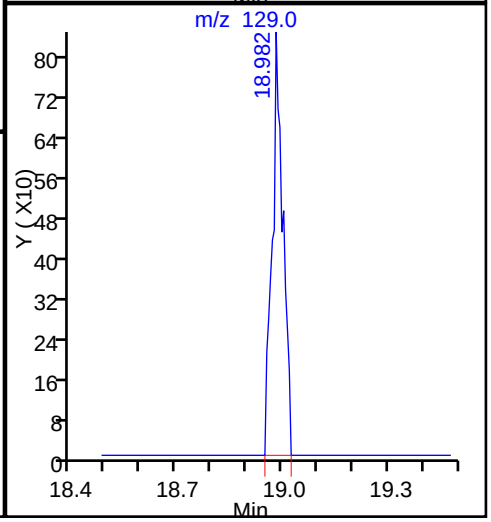










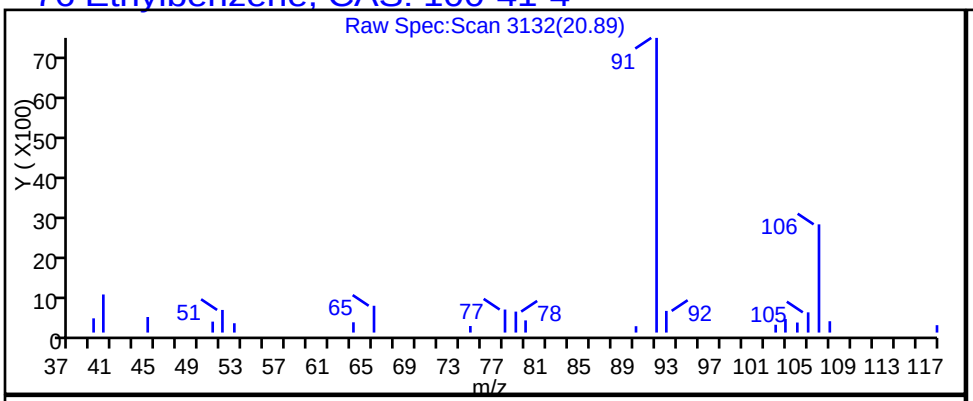


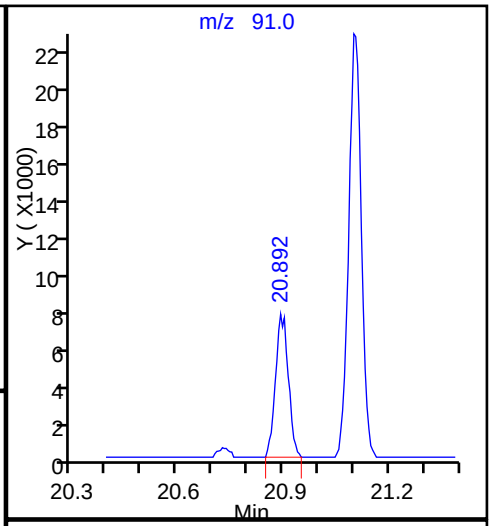
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

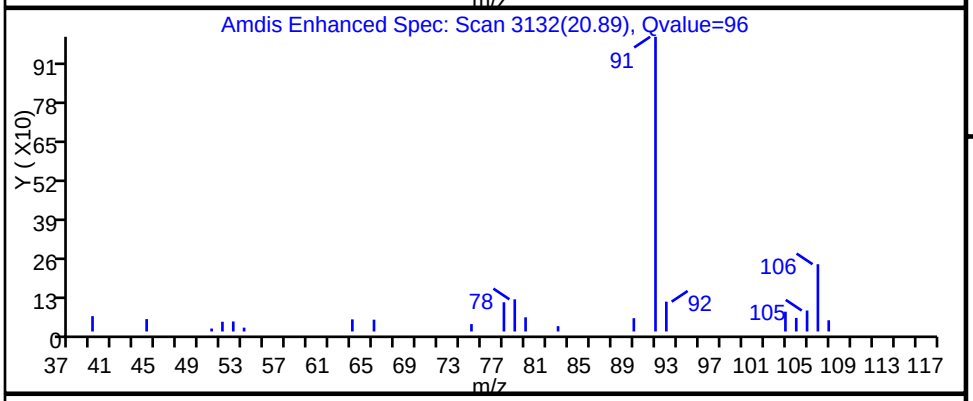
TestAmerica Burlington

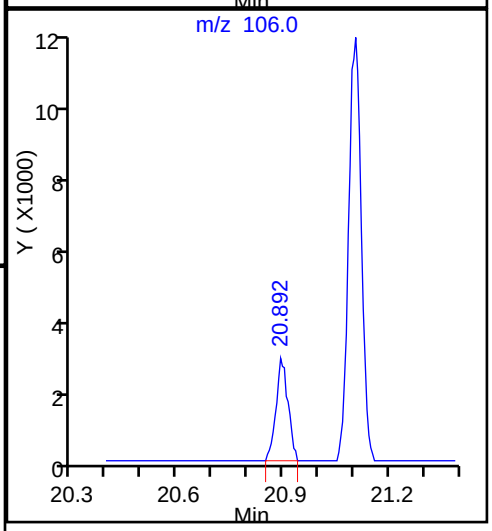
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

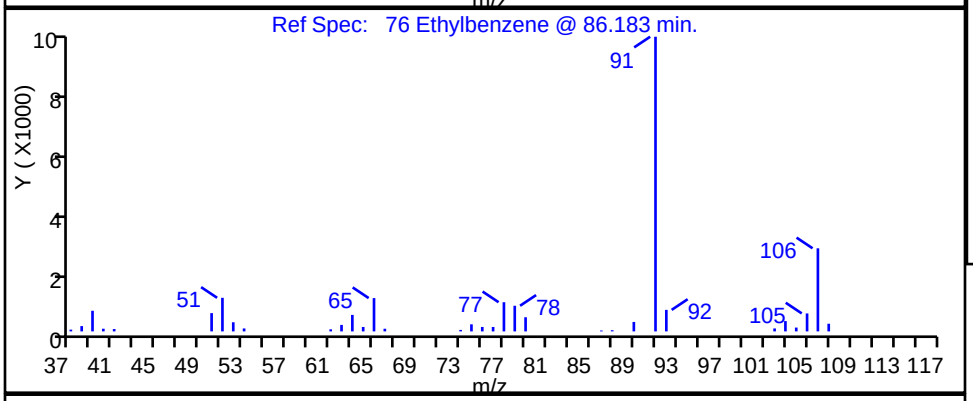
76 Ethylbenzene, CAS: 100-41-4

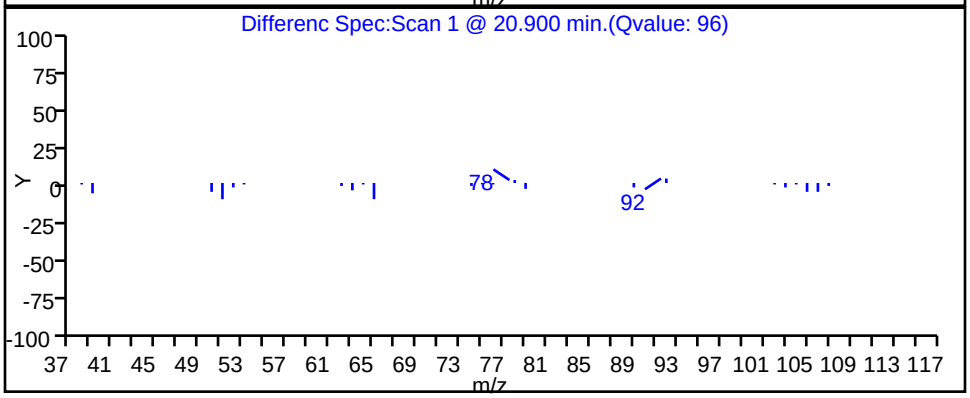










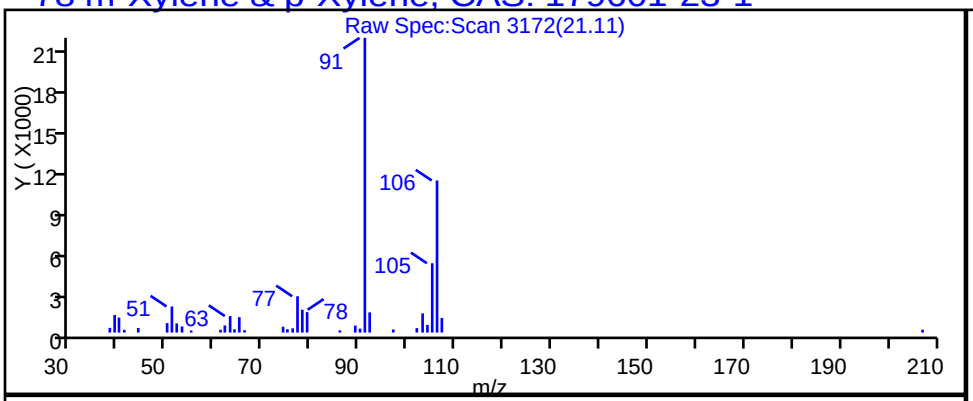


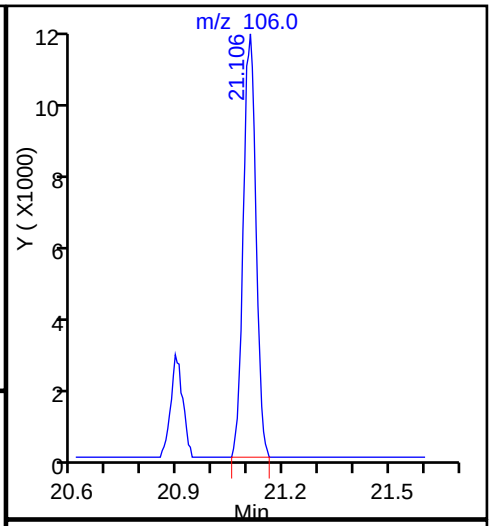
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

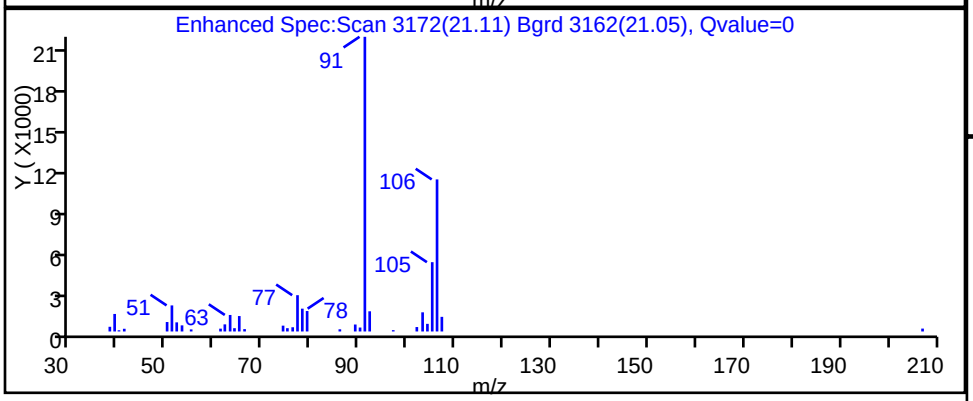
TestAmerica Burlington

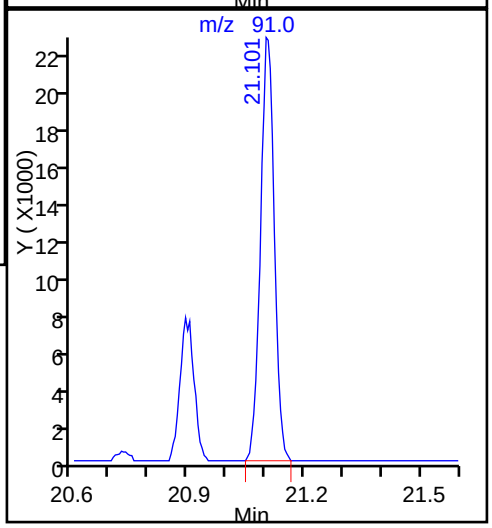
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







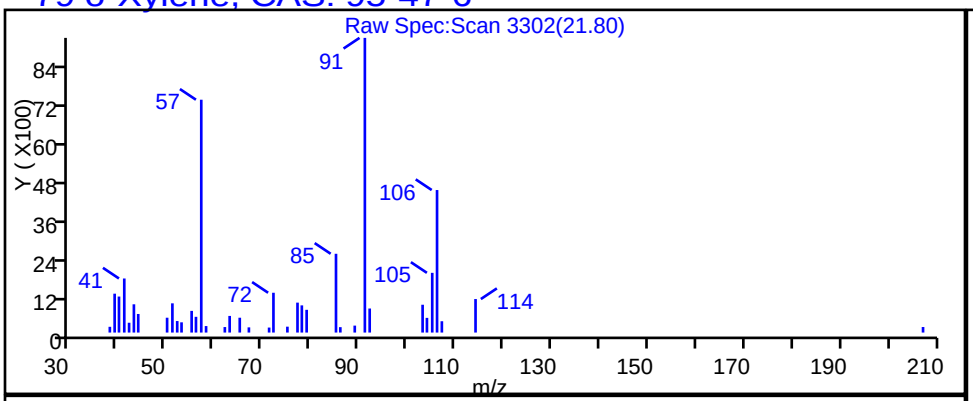


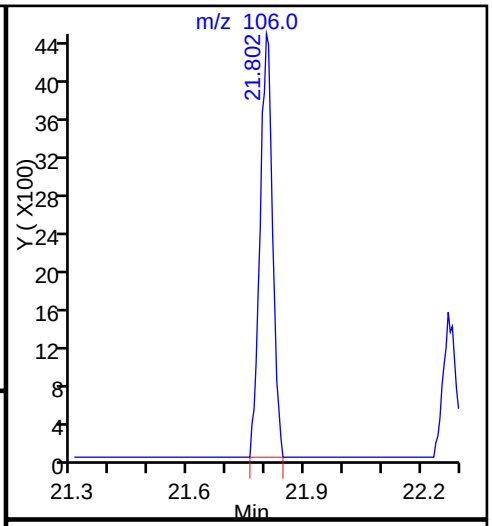
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

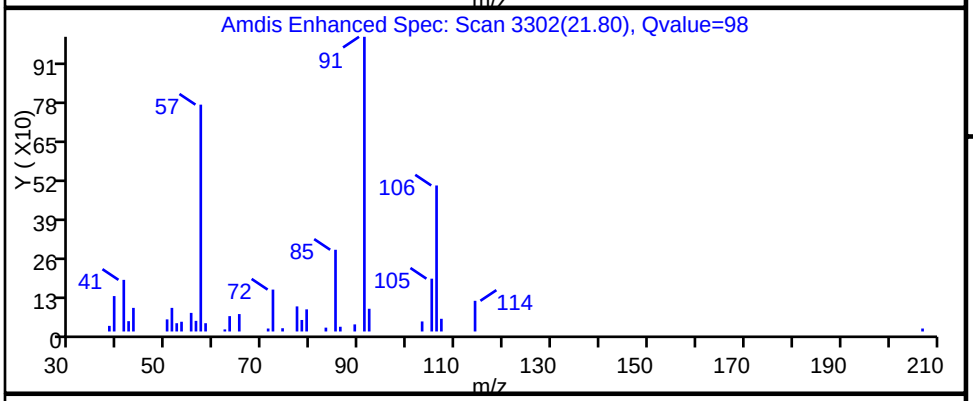
TestAmerica Burlington

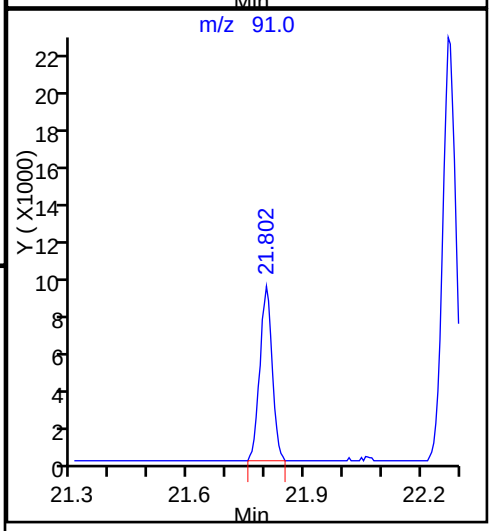
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d		
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10
Client ID:	FR-IA05-092315		
Operator ID:	pad	ALS Bottle#:	14 Worklist Smp#: 15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

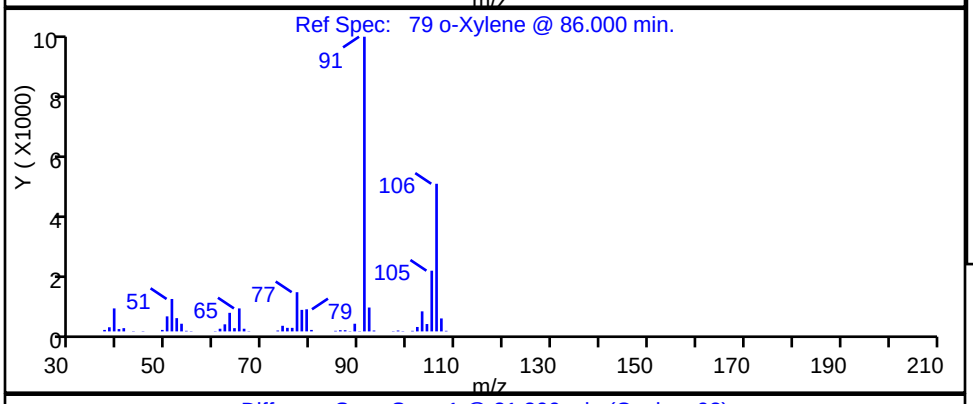
79 o-Xylene, CAS: 95-47-6

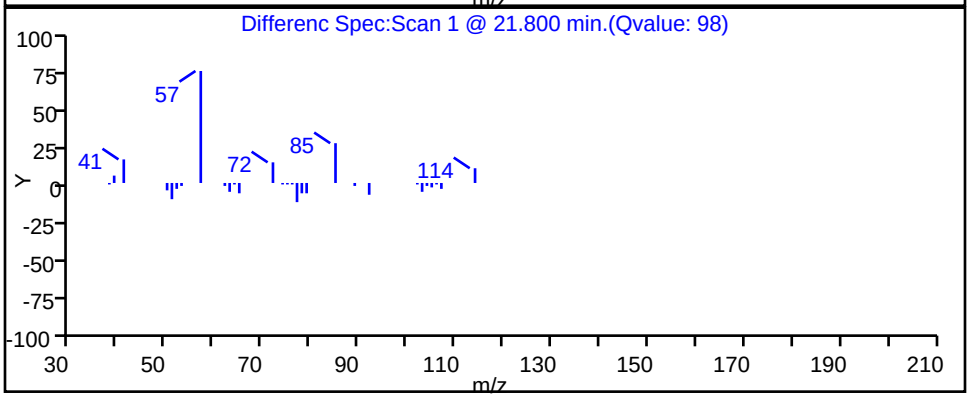










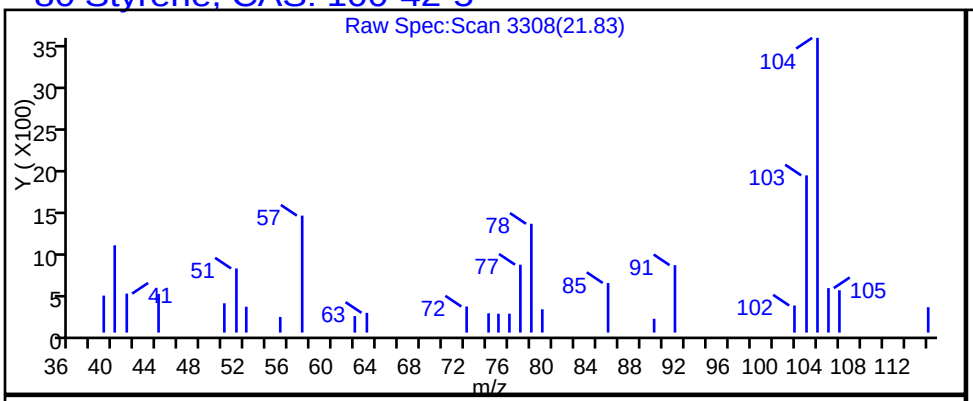


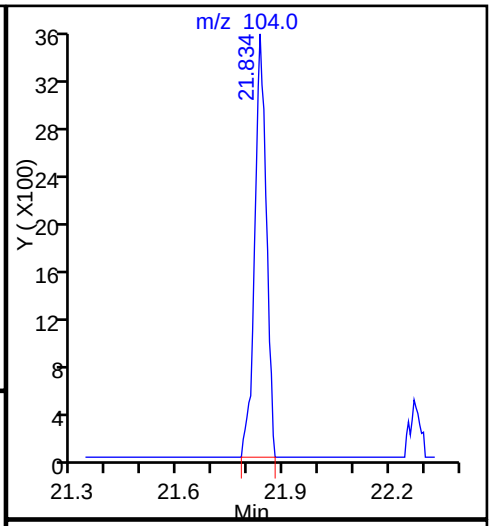
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

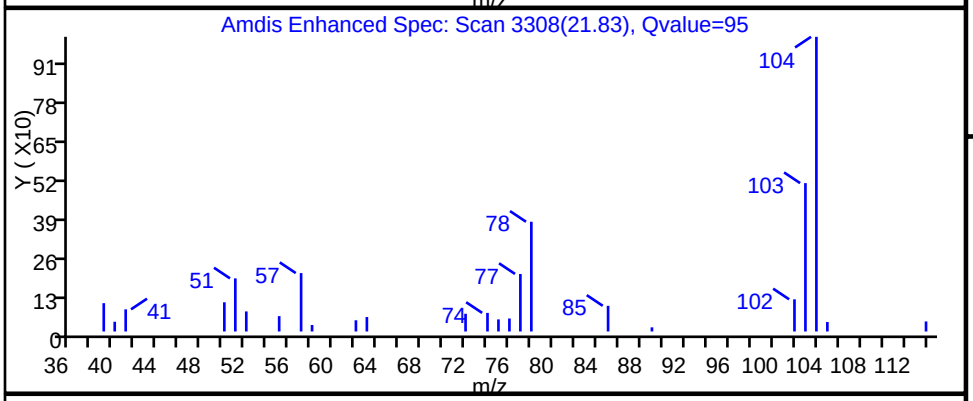
TestAmerica Burlington

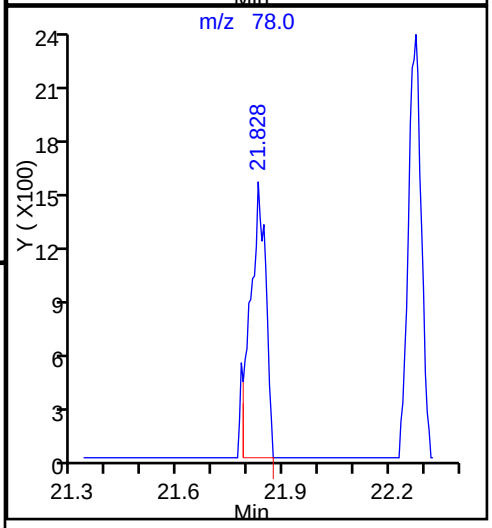
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

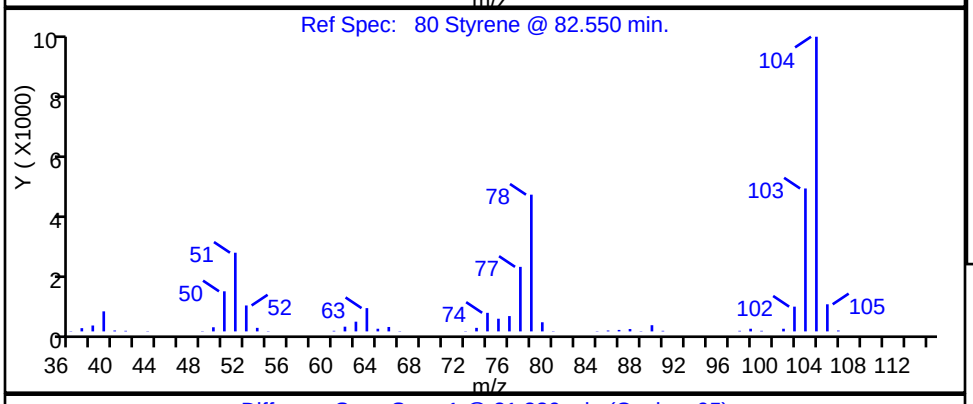
80 Styrene, CAS: 100-42-5

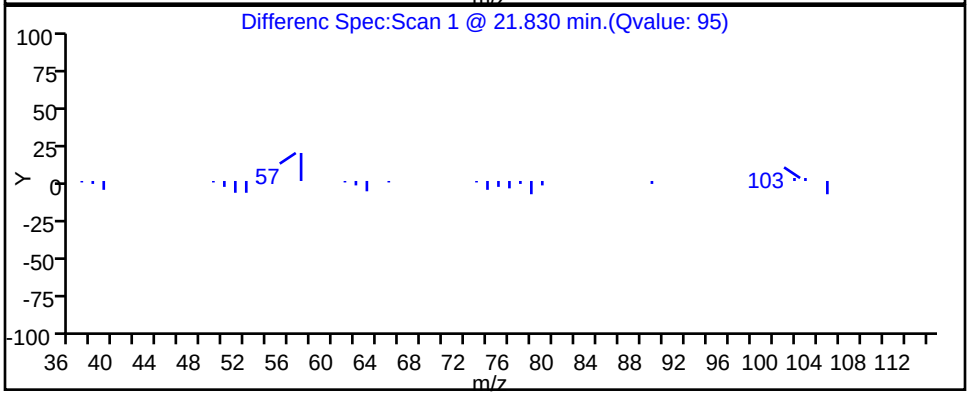












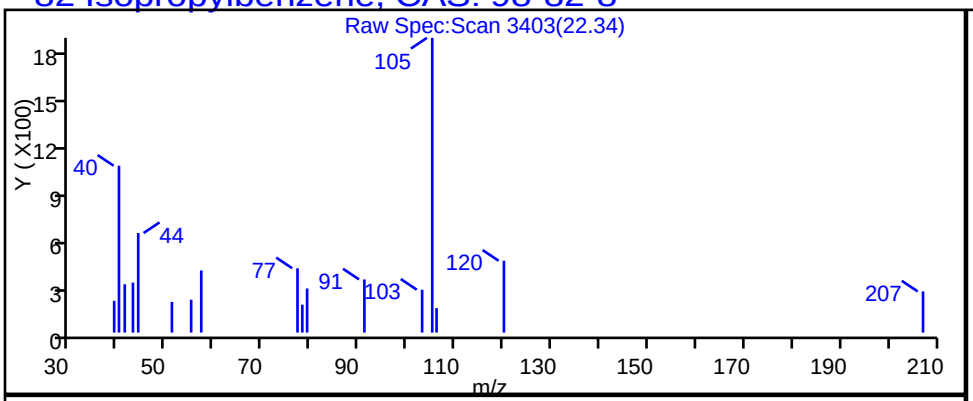
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

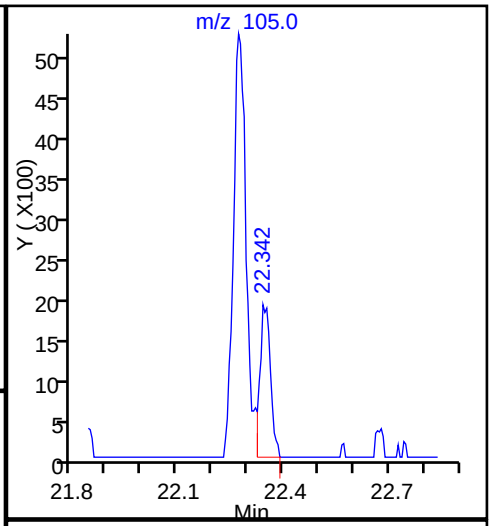
TestAmerica Burlington

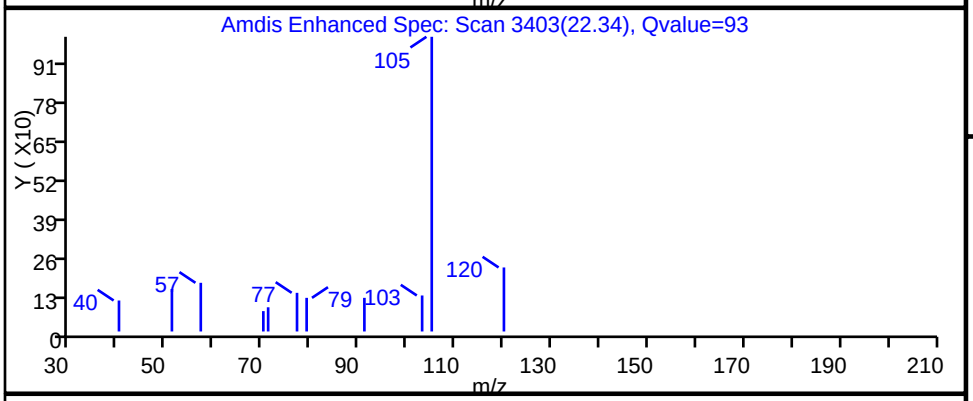
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

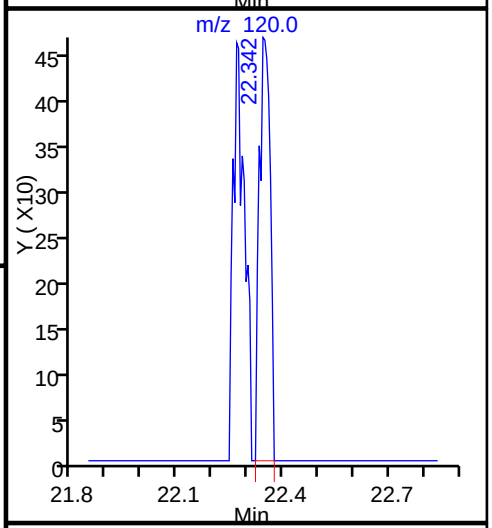
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10
Client ID:	FR-IA05-092315		
Operator ID:	pad	ALS Bottle#:	14 Worklist Smp#: 15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

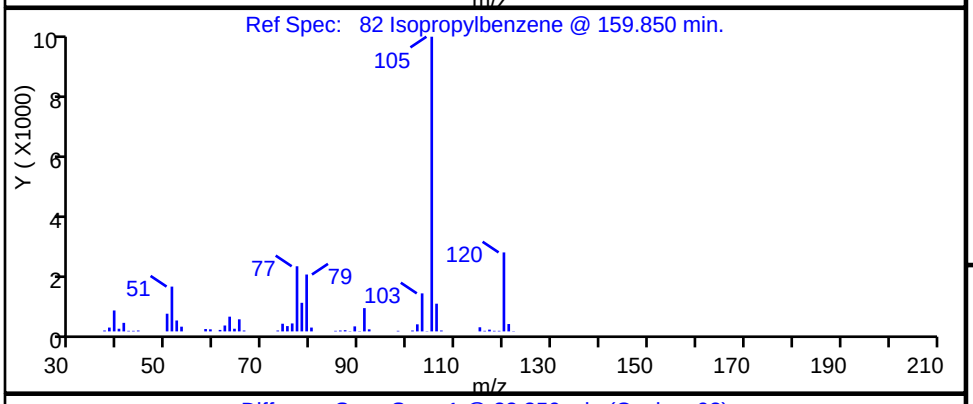
82 Isopropylbenzene, CAS: 98-82-8

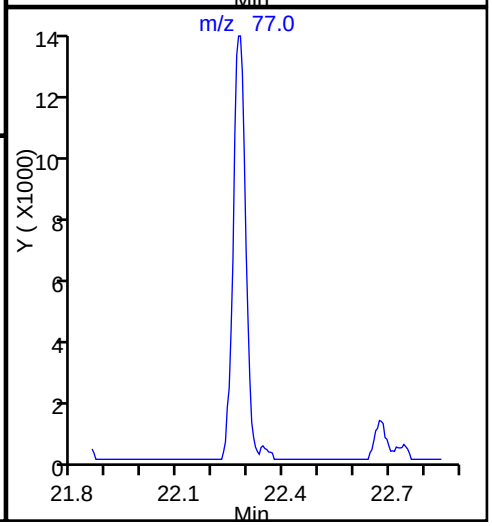


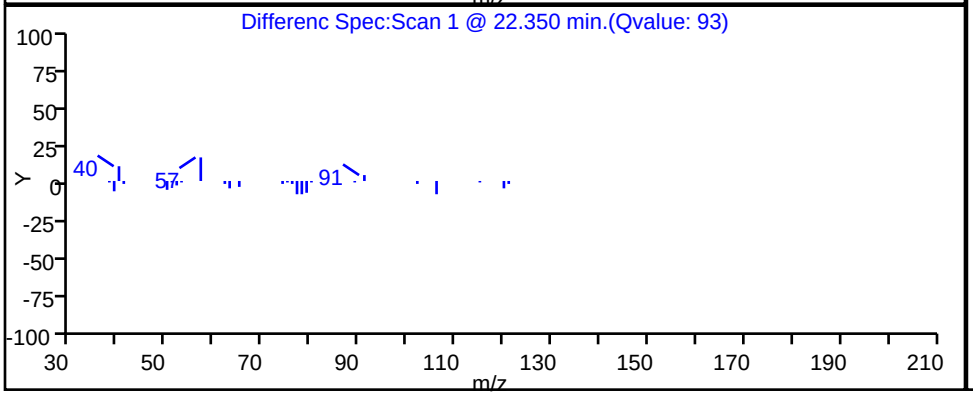












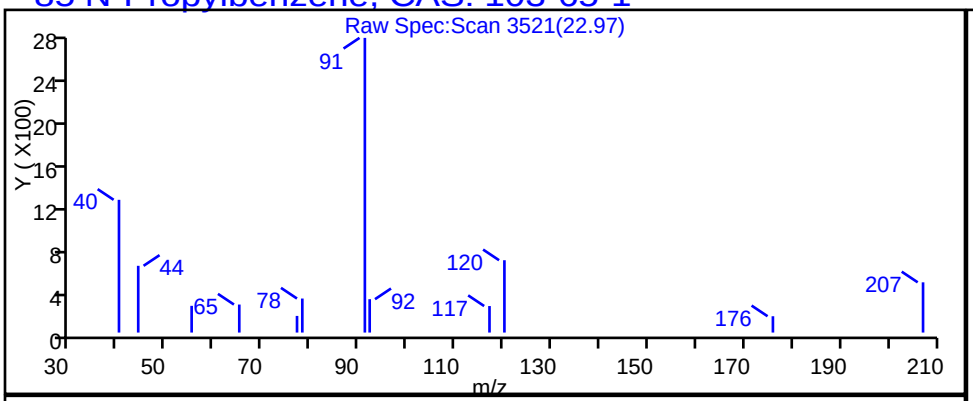
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

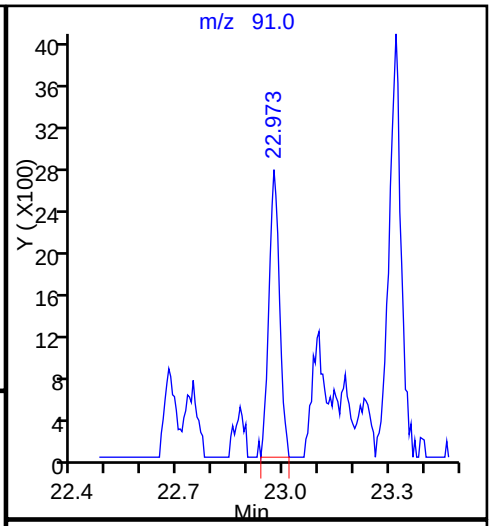
TestAmerica Burlington

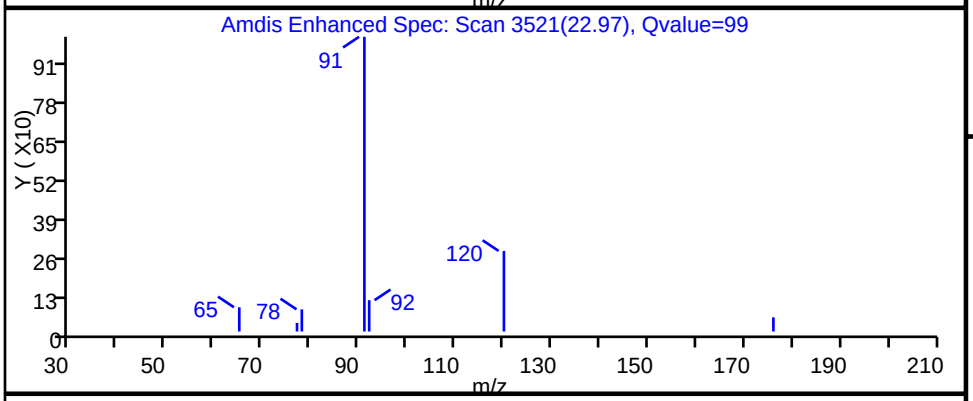
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

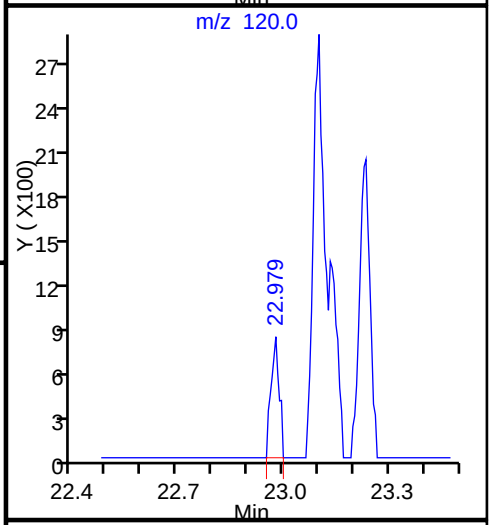
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

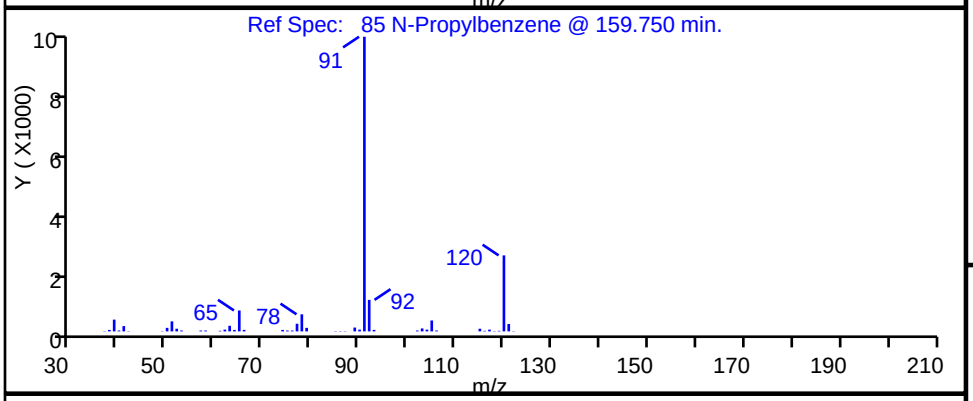
85 N-Propylbenzene, CAS: 103-65-1

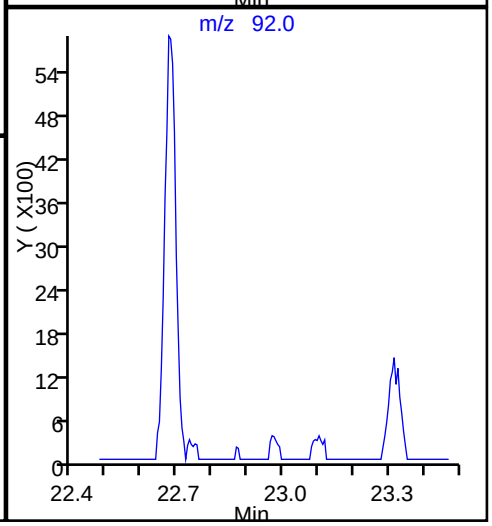


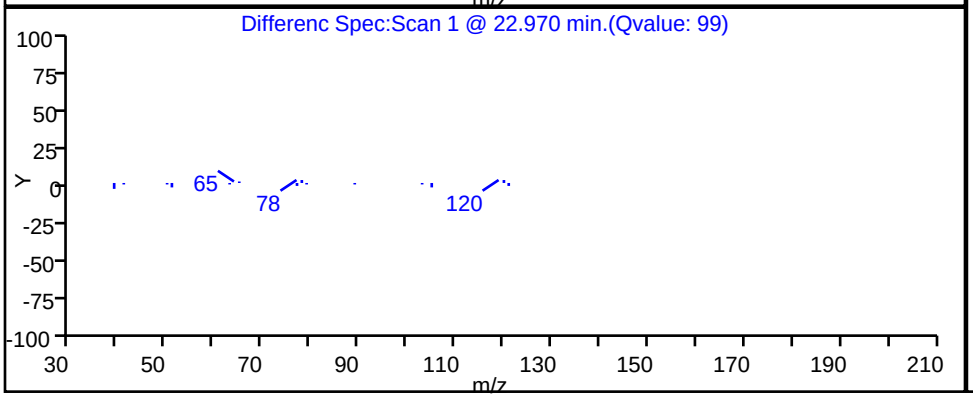










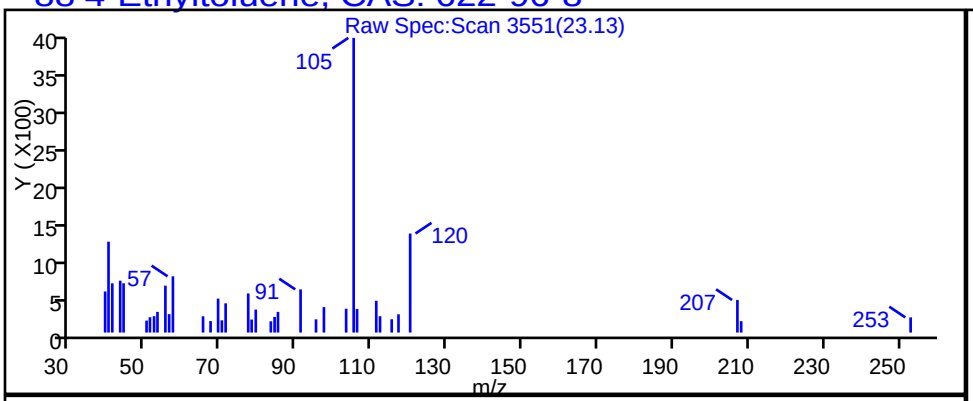


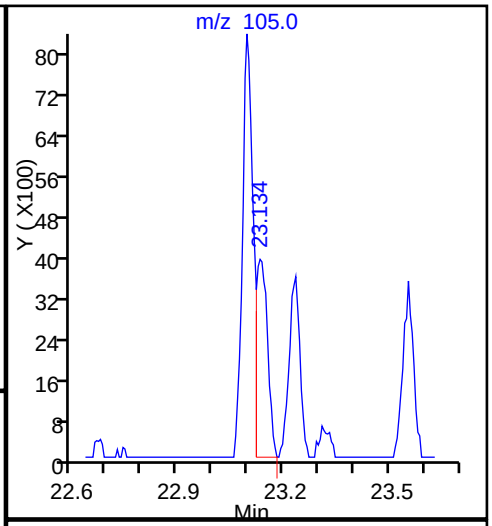
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

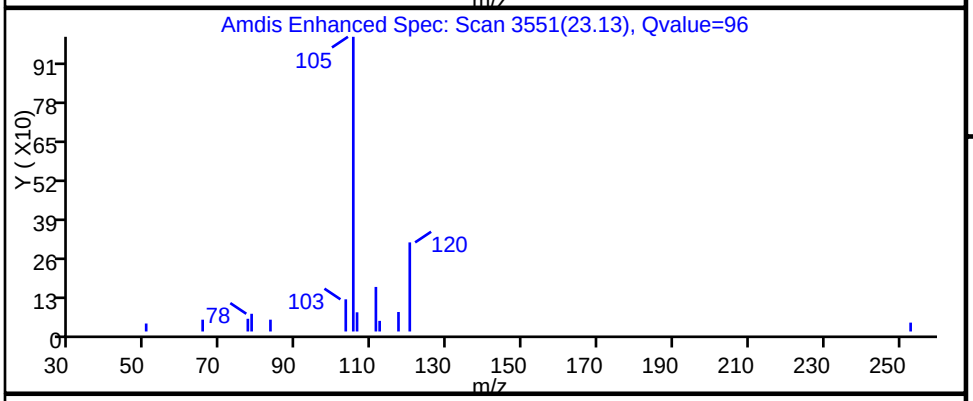
TestAmerica Burlington

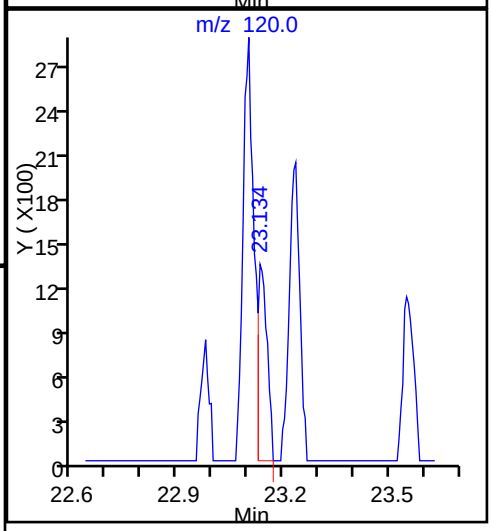
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

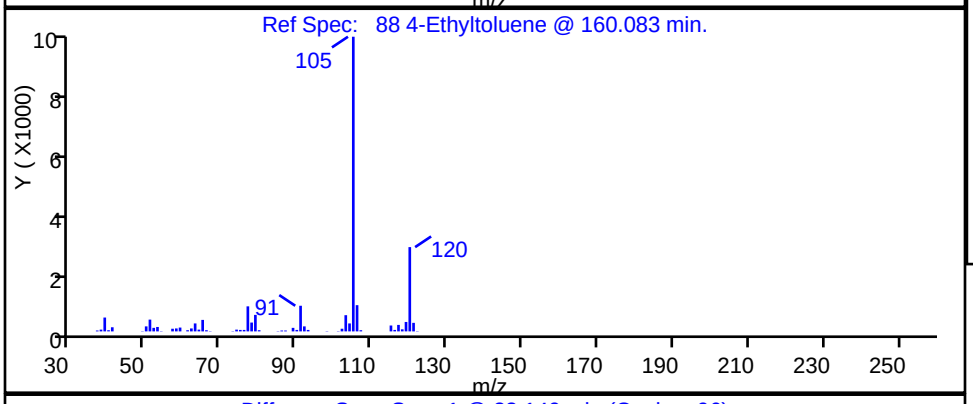
88 4-Ethyltoluene, CAS: 622-96-8

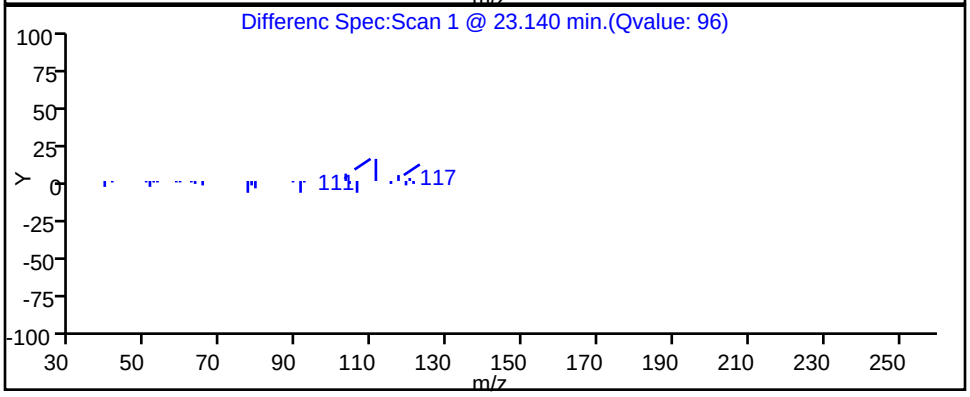












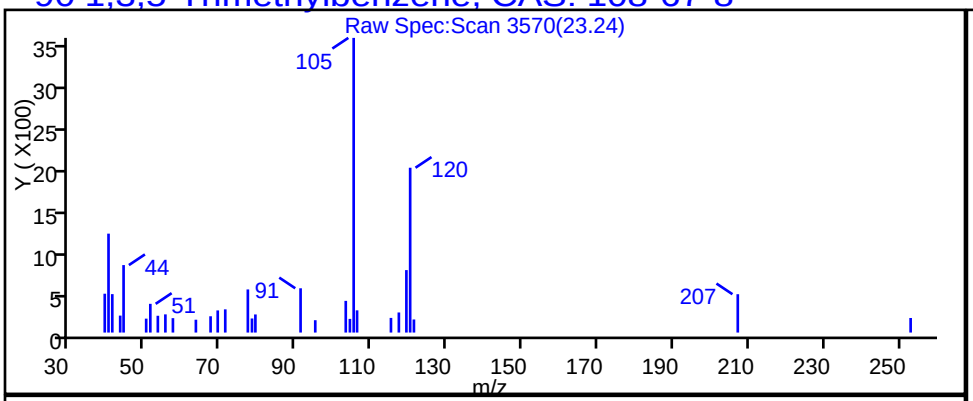
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

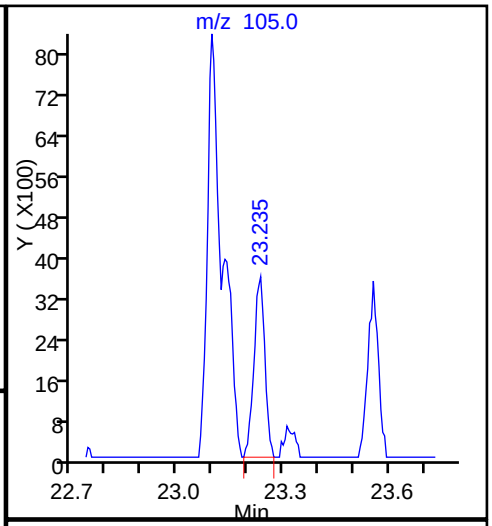
TestAmerica Burlington

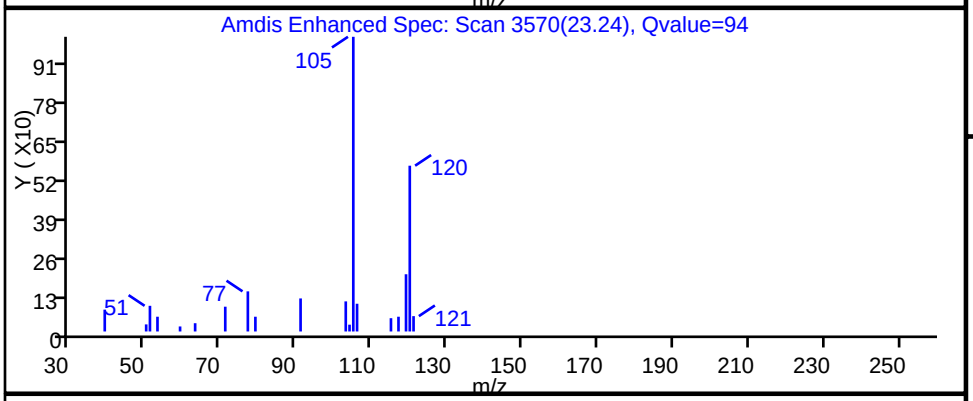
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

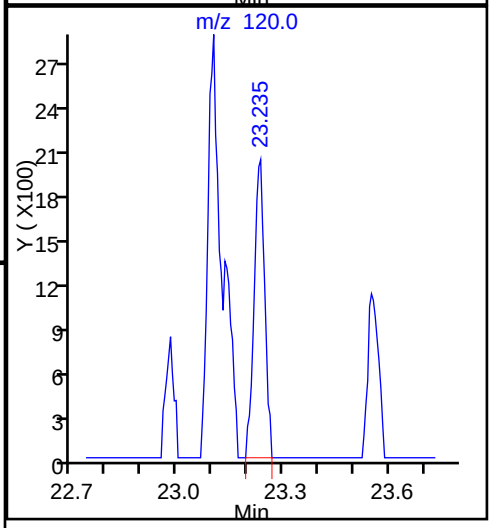
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

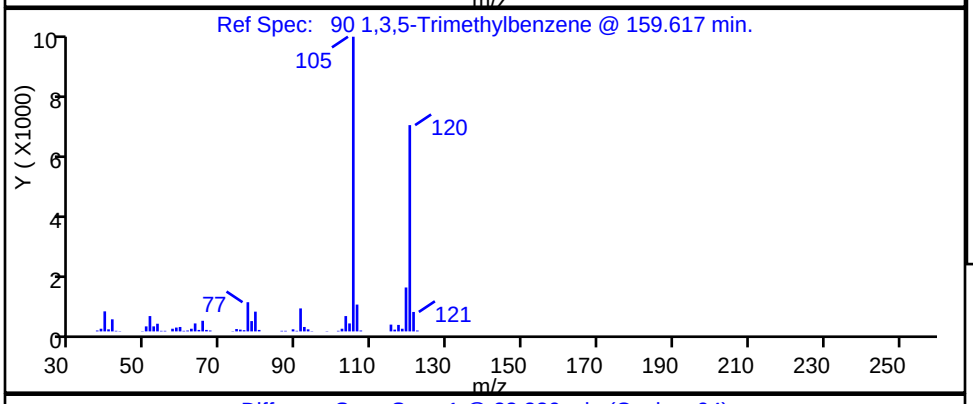
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

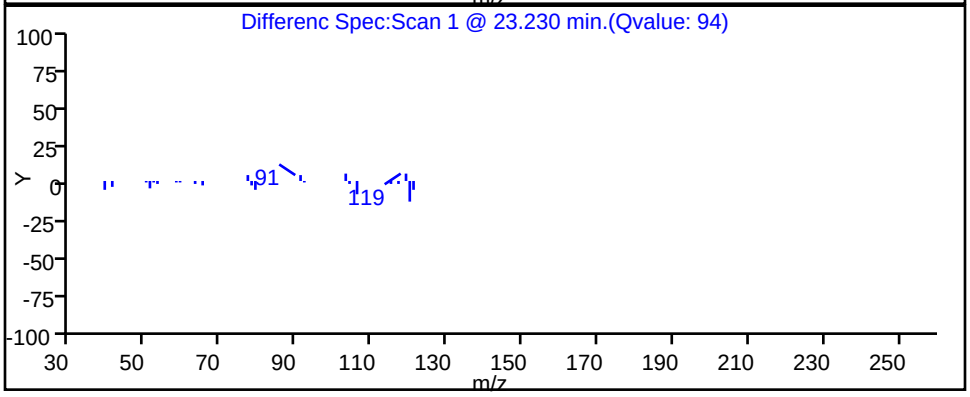










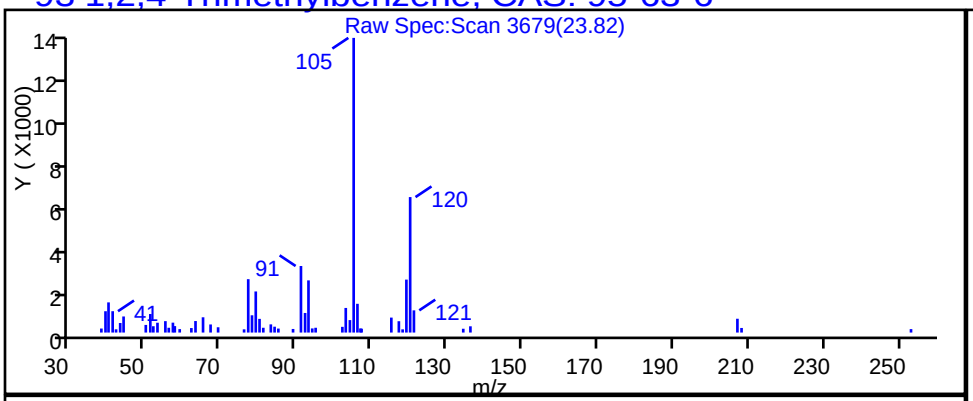


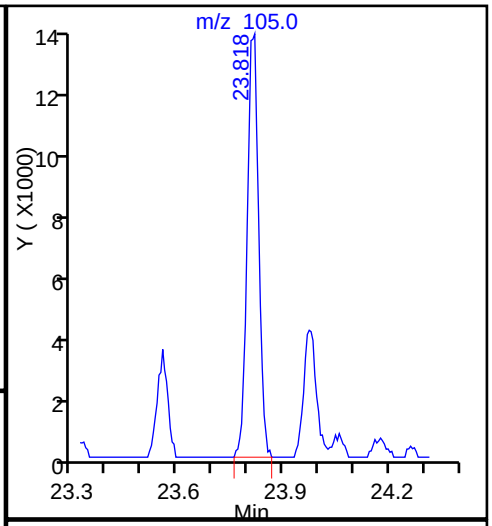
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

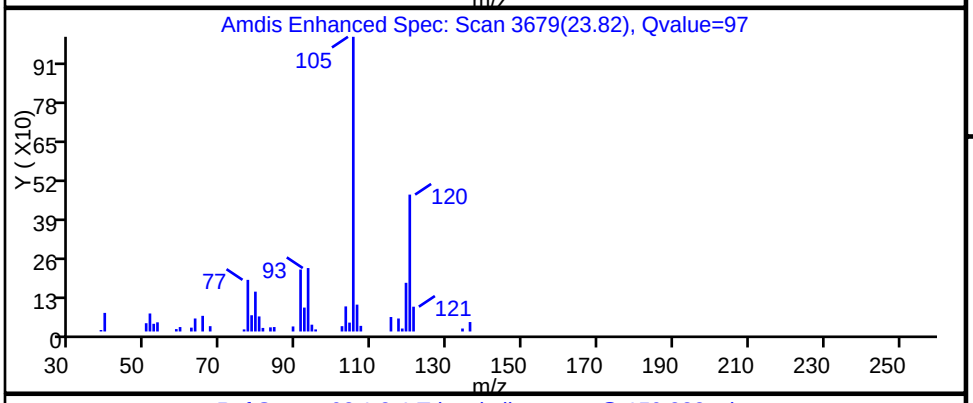
TestAmerica Burlington

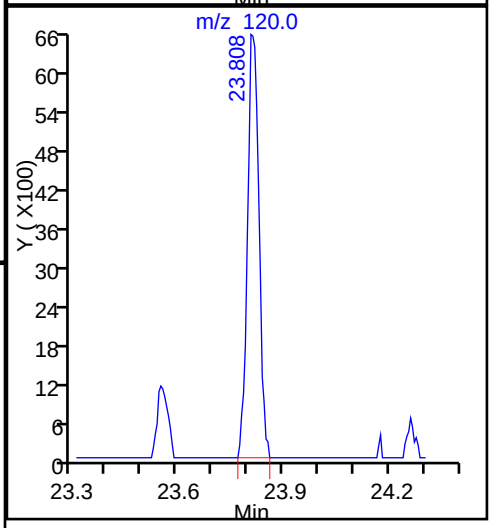
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

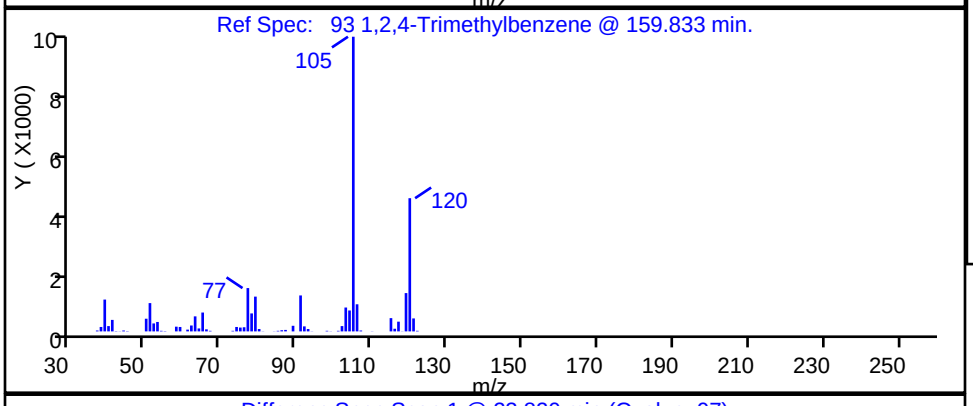
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

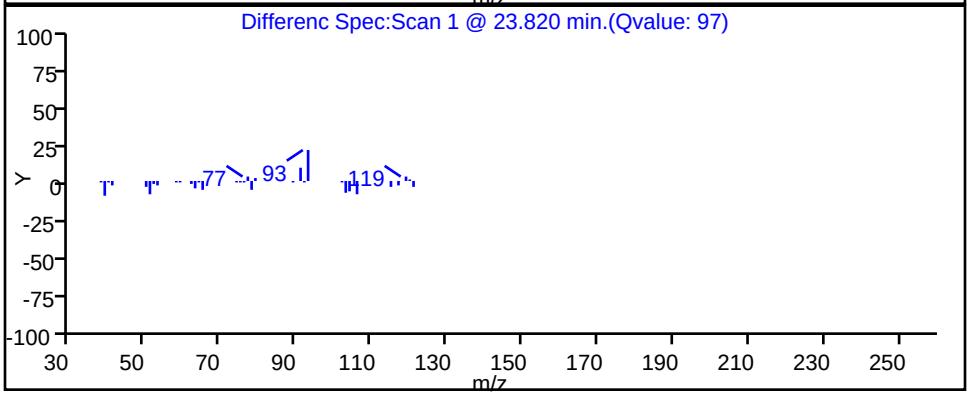












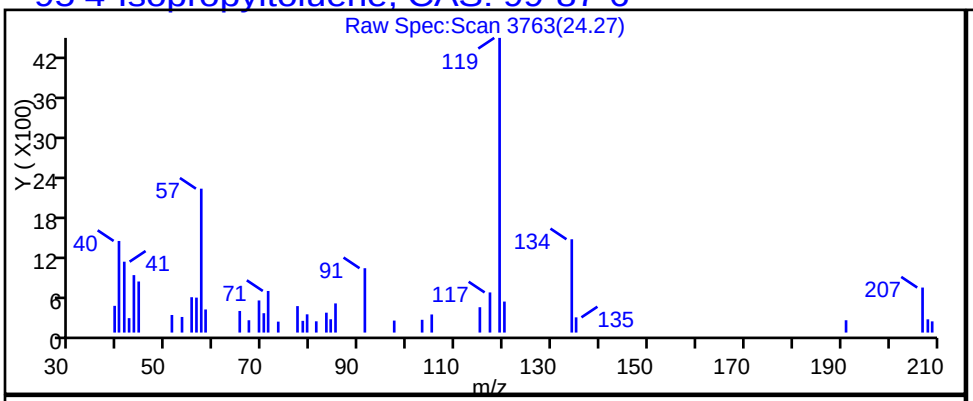
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

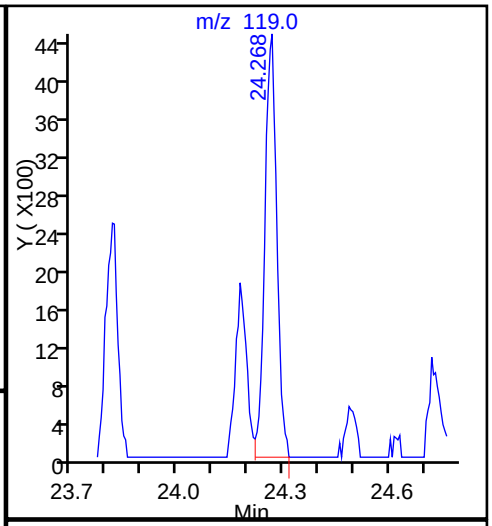
TestAmerica Burlington

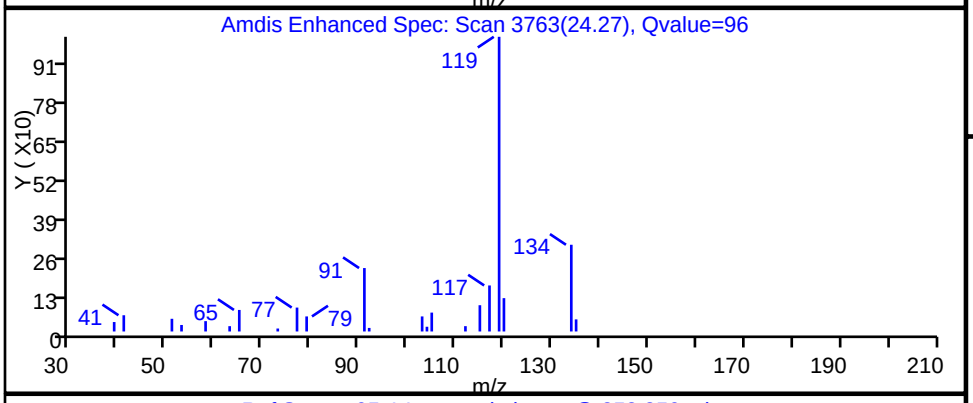
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d

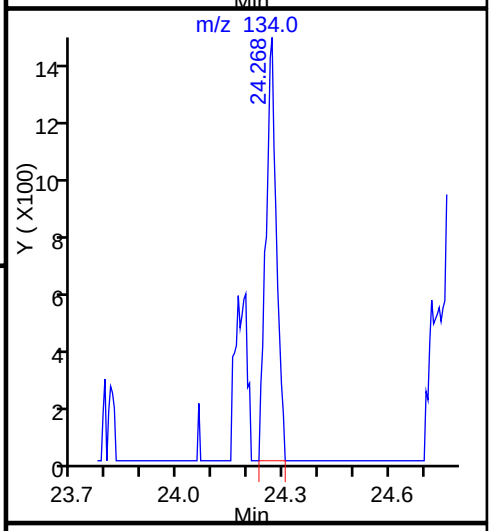
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

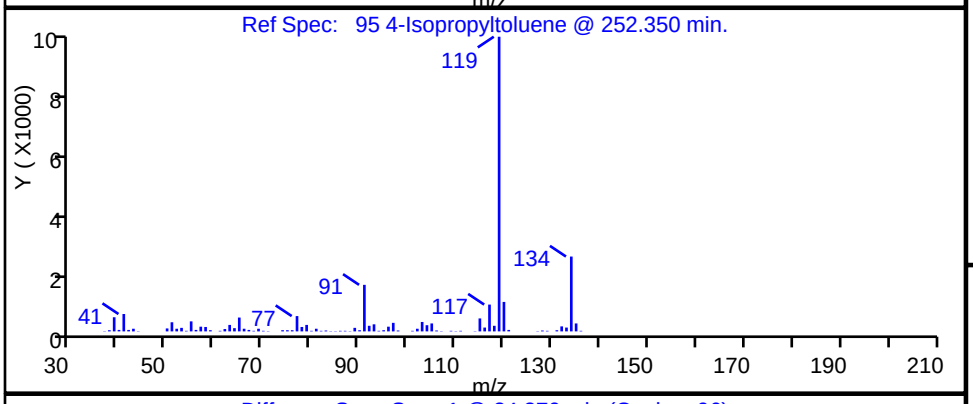
95 4-Isopropyltoluene, CAS: 99-87-6

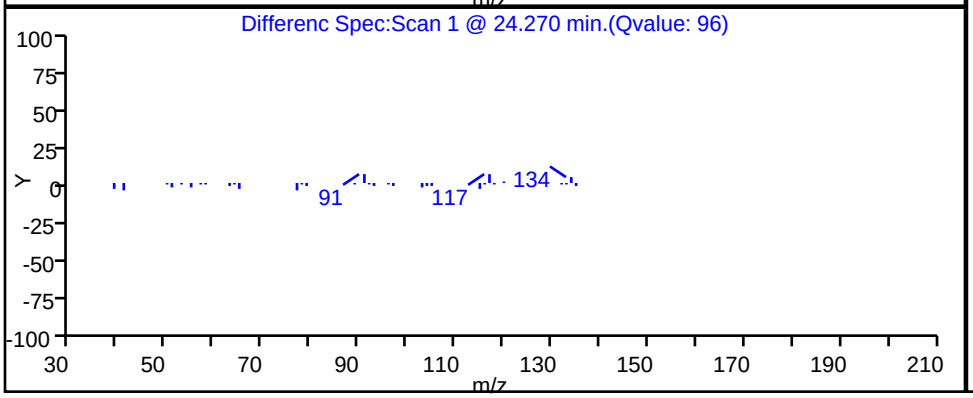


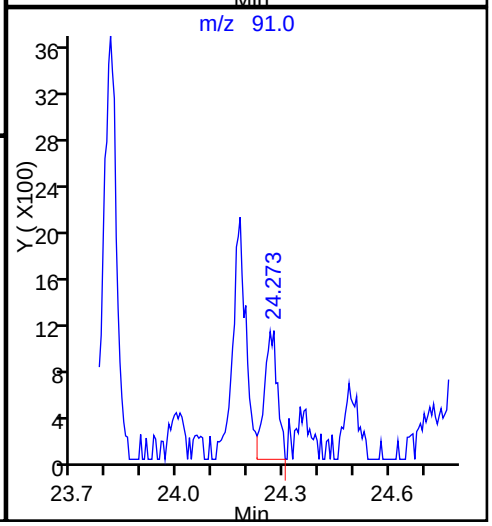










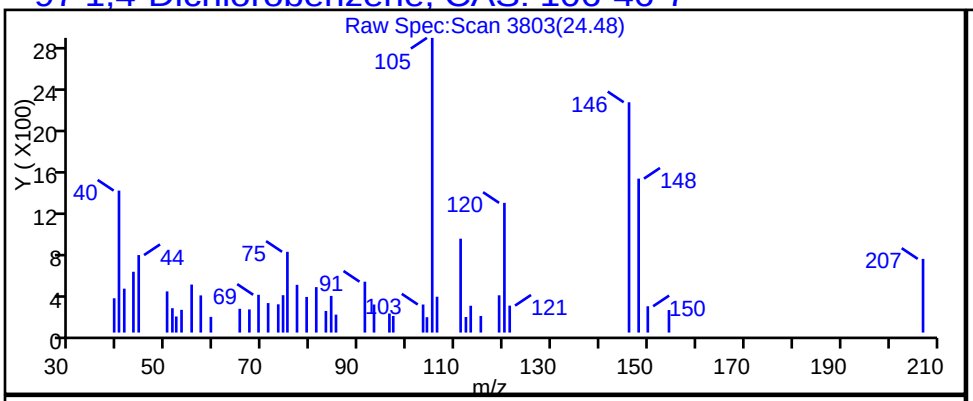


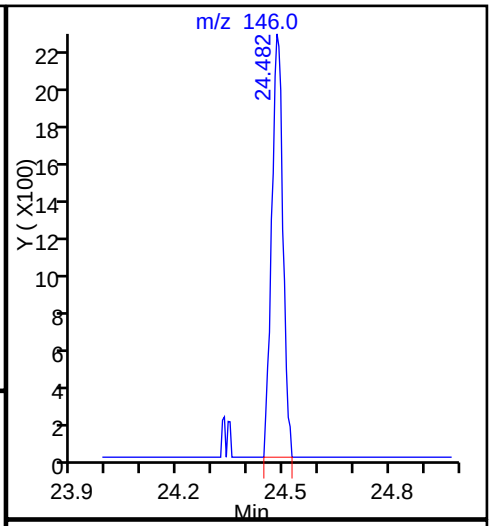
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

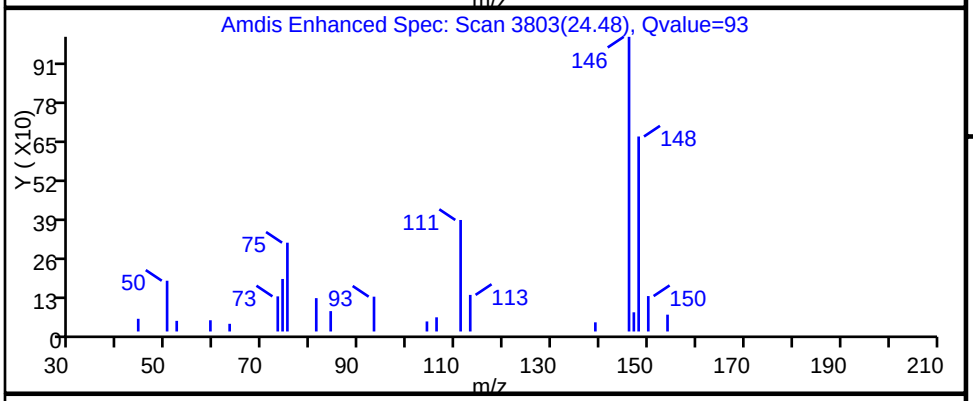
TestAmerica Burlington

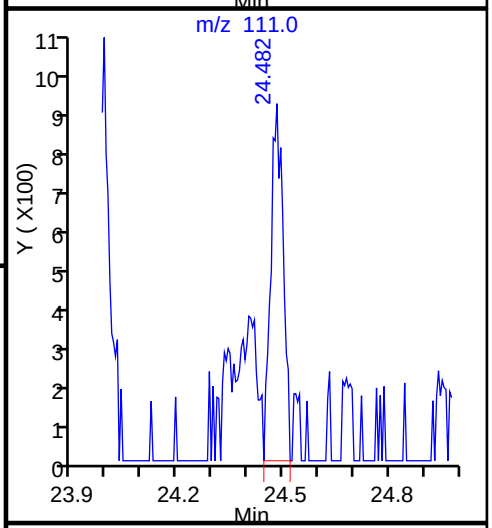
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

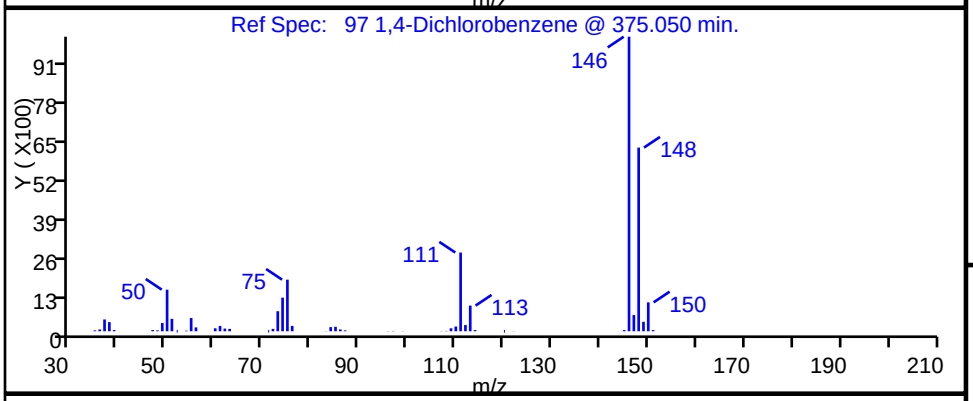
97 1,4-Dichlorobenzene, CAS: 106-46-7

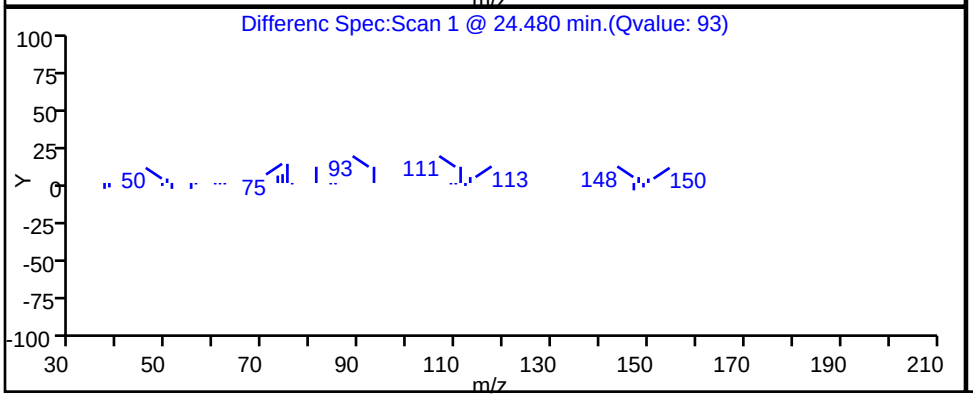


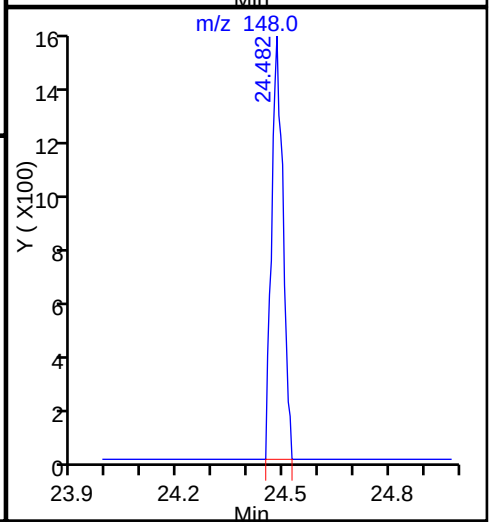










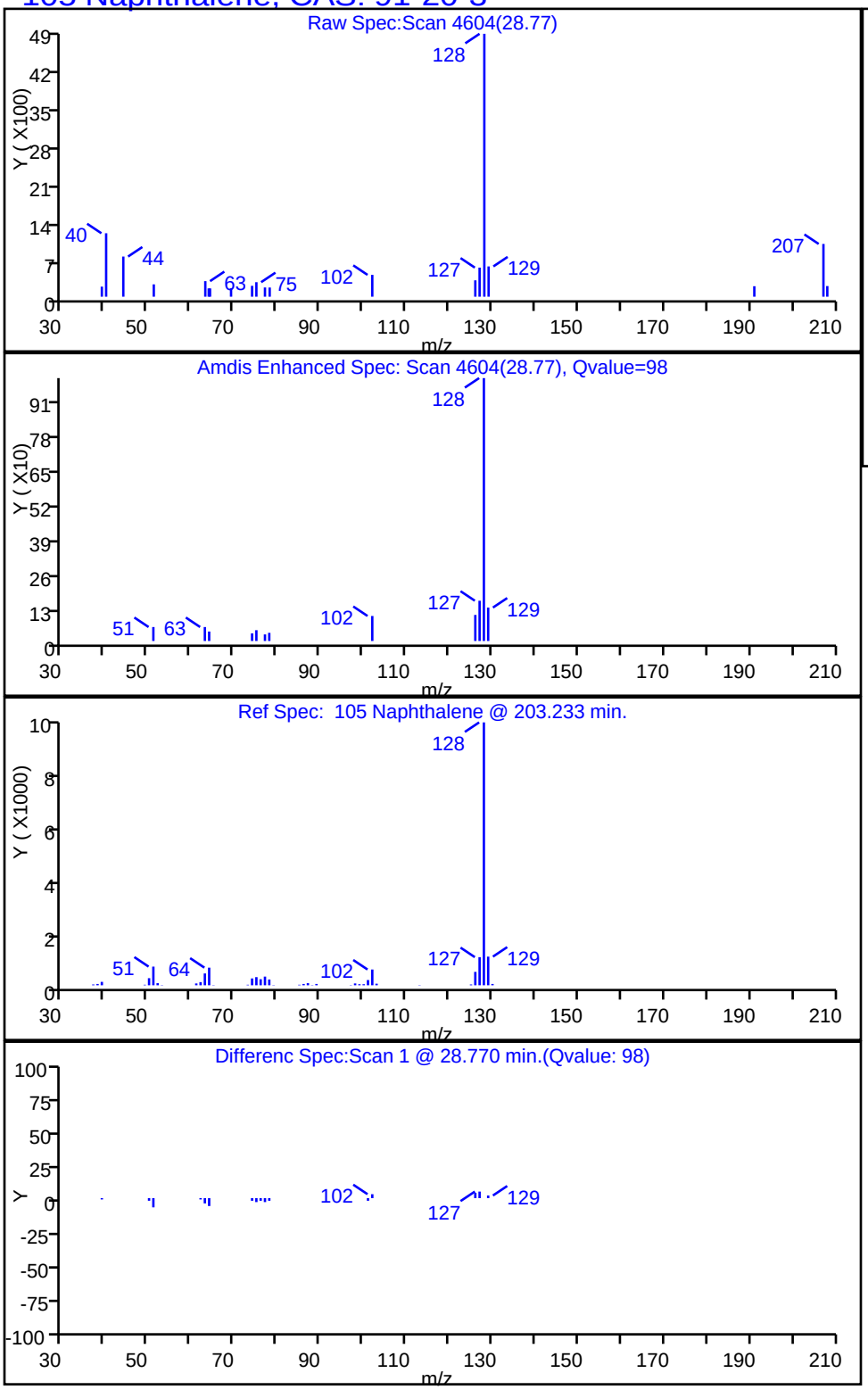


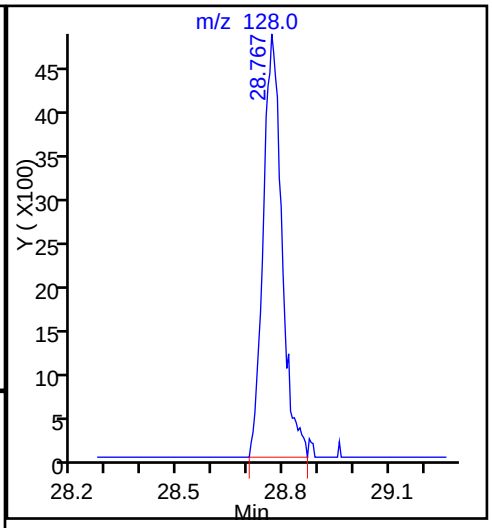
Report Date: 30-Sep-2015 14:17:45 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

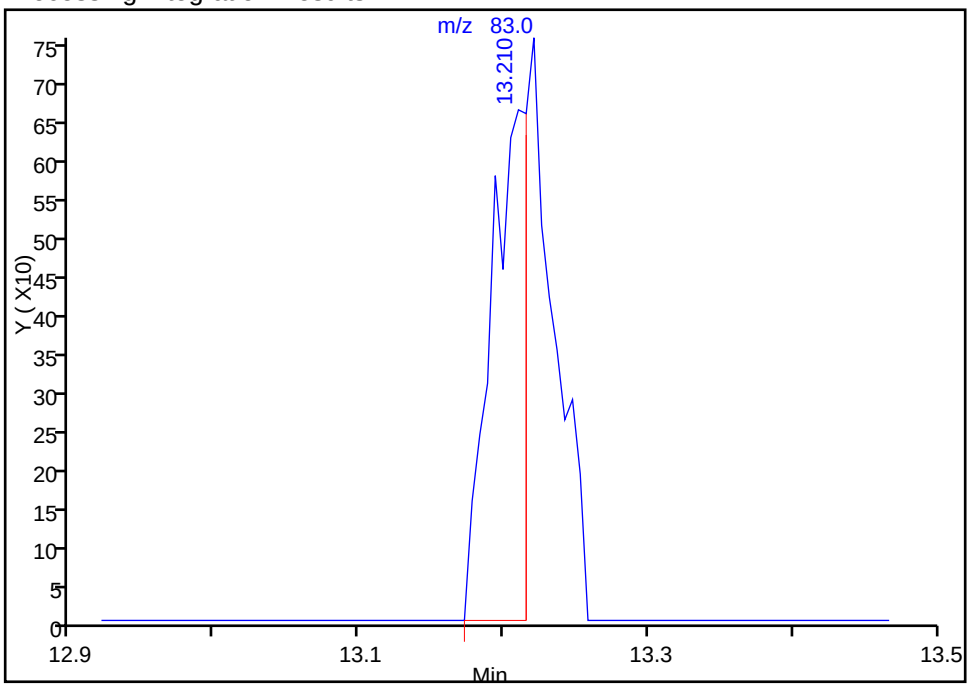
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

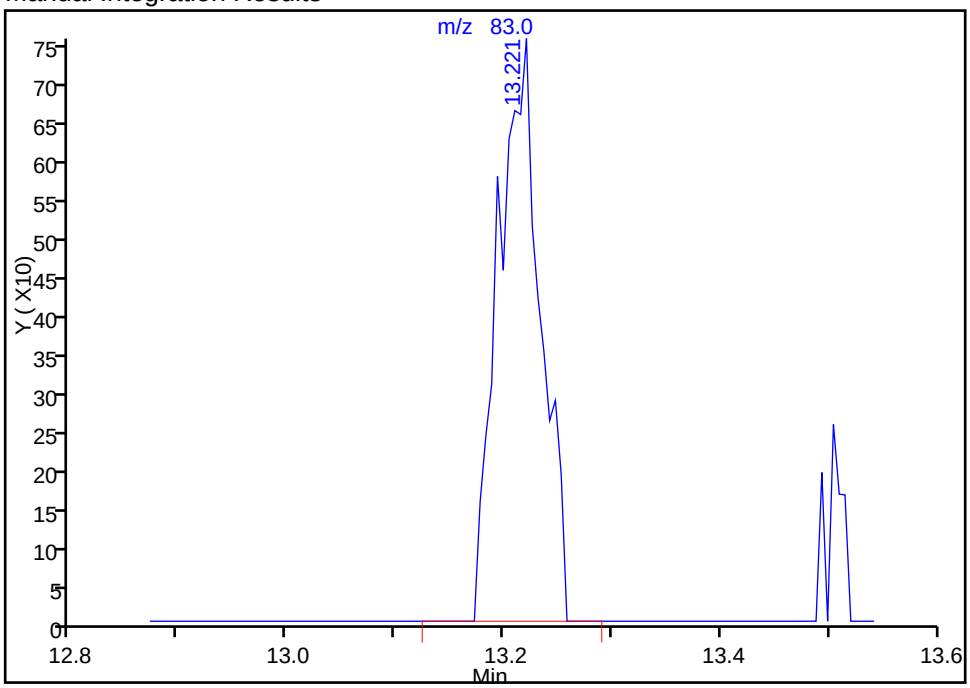
Processing Integration Results

RT: 13.21
Area: 1176
Amount: 0.035675
Amount Units: ppb v/v



Manual Integration Results

RT: 13.22
Area: 2062
Amount: 0.062553
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:00:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

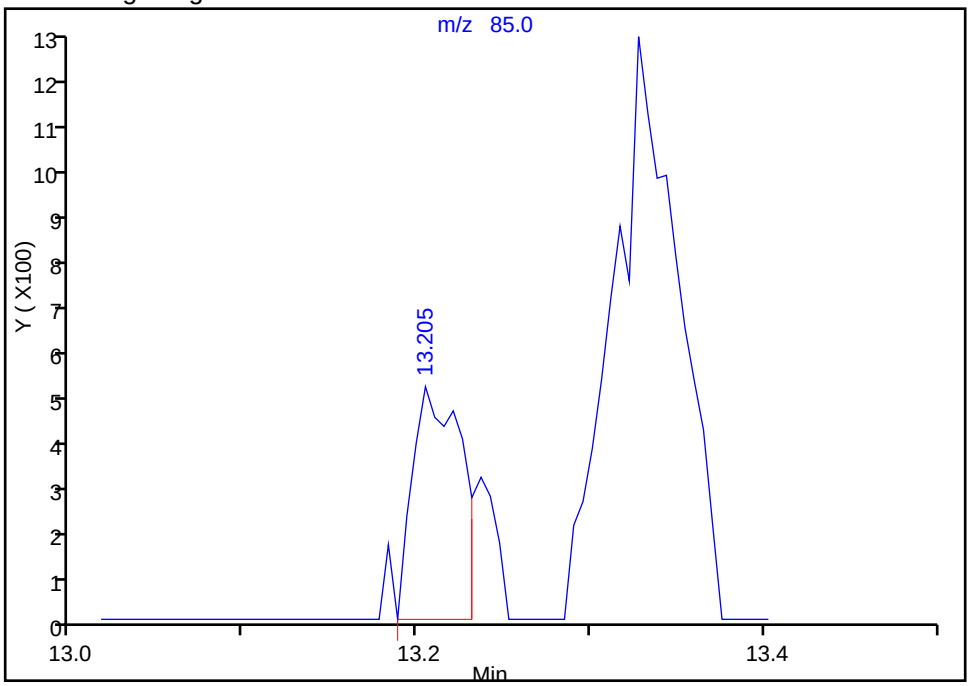
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

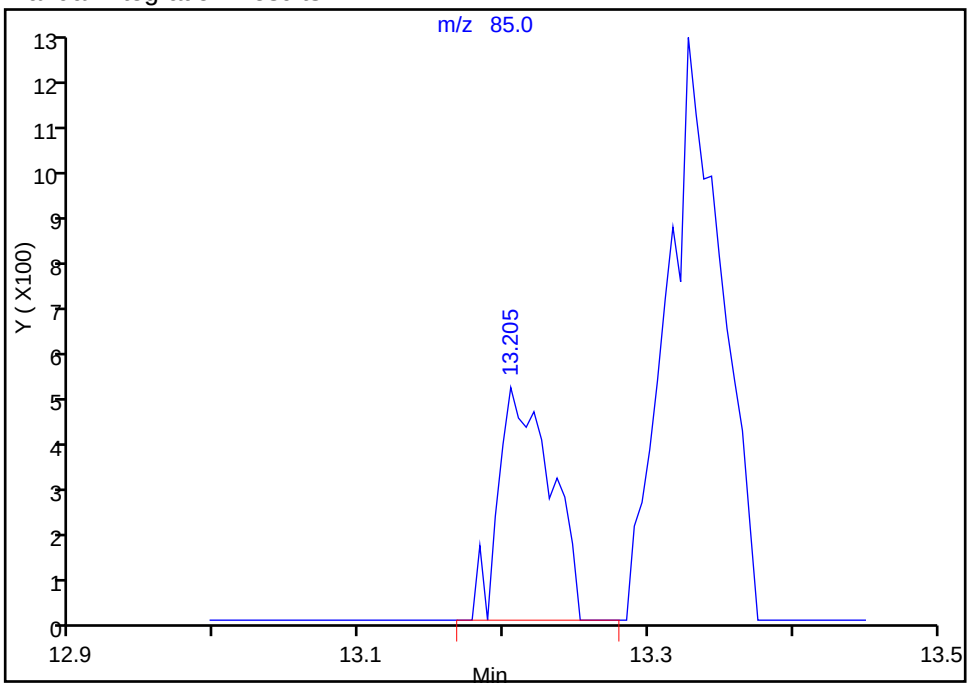
Processing Integration Results

RT: 13.20
Area: 939
Amount: 0.035675
Amount Units: ppb v/v



Manual Integration Results

RT: 13.20
Area: 1215
Amount: 0.062553
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:00:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

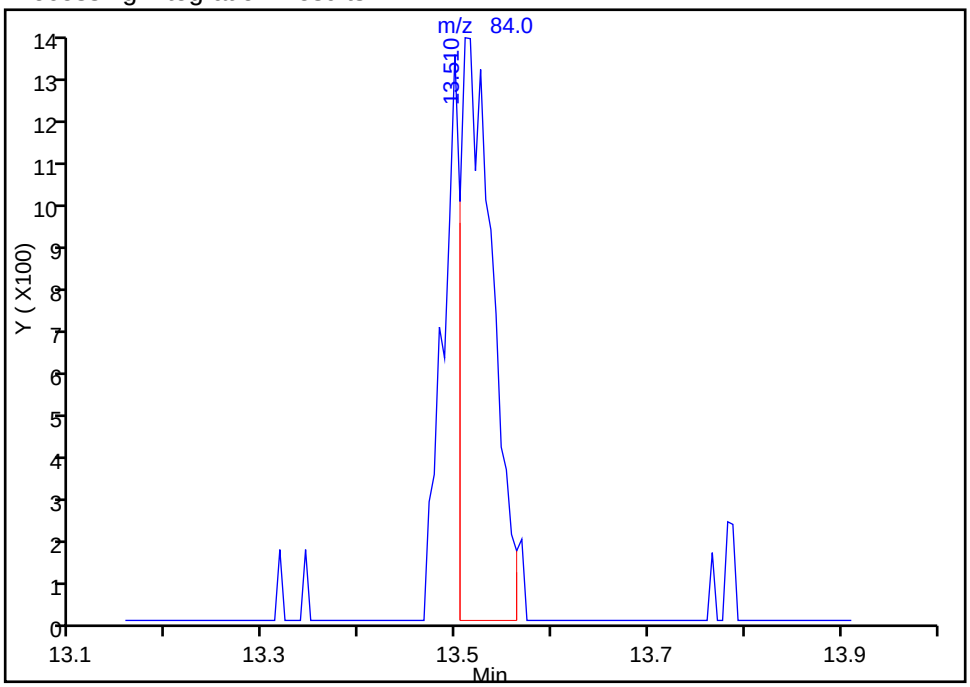
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

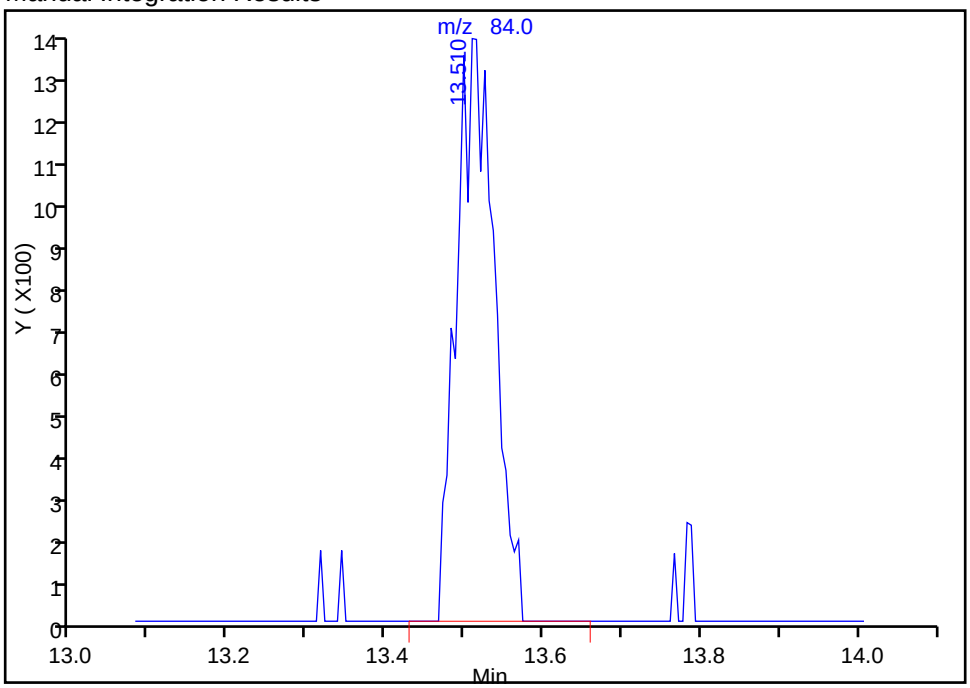
Processing Integration Results

RT: 13.51
Area: 3089
Amount: 0.170340
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 4470
Amount: 0.246493
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:00:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

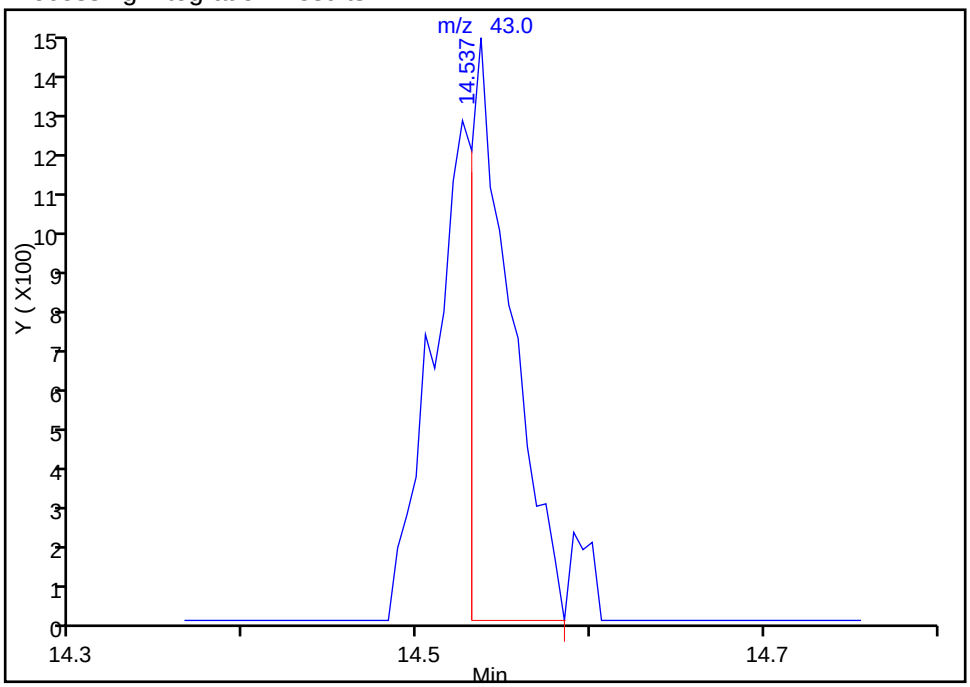
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

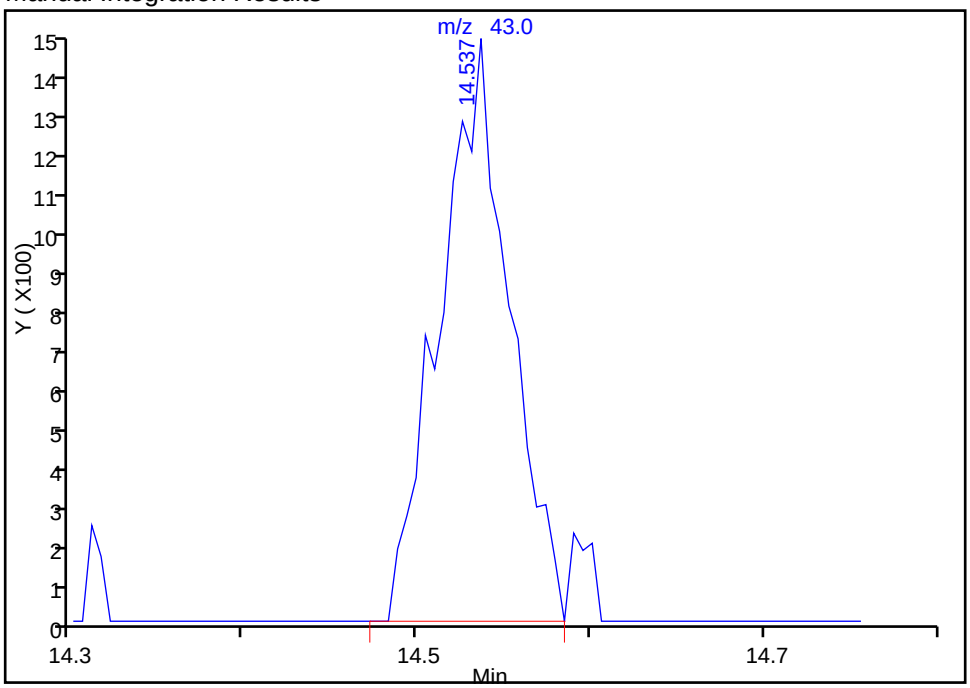
Processing Integration Results

RT: 14.54
Area: 2346
Amount: 0.153298
Amount Units: ppb v/v



Manual Integration Results

RT: 14.54
Area: 4028
Amount: 0.263207
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:00:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

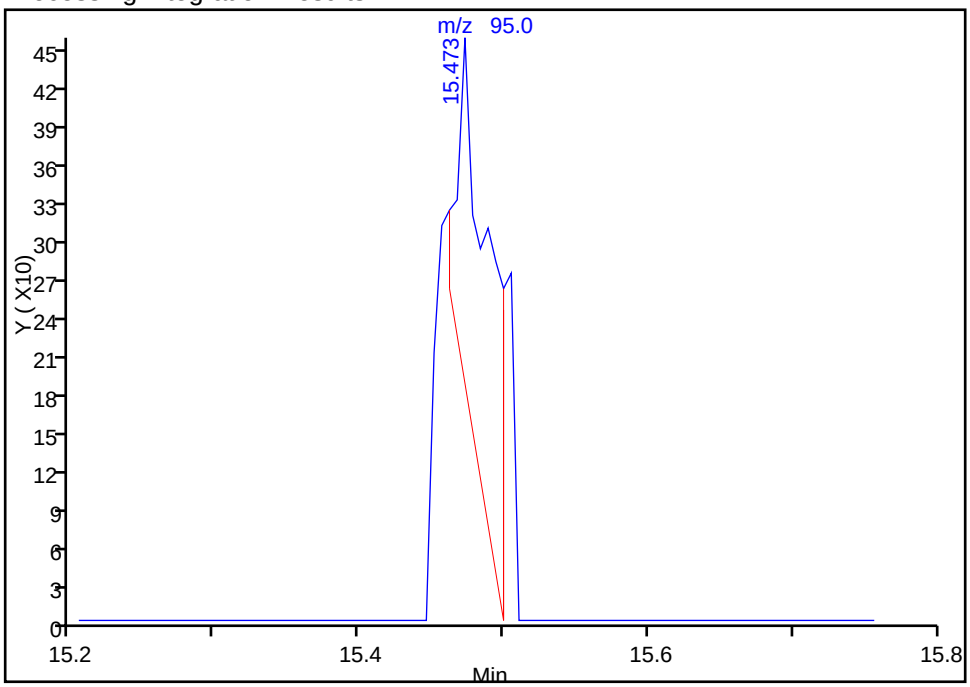
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_015.d				
Injection Date:	29-Sep-2015 22:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

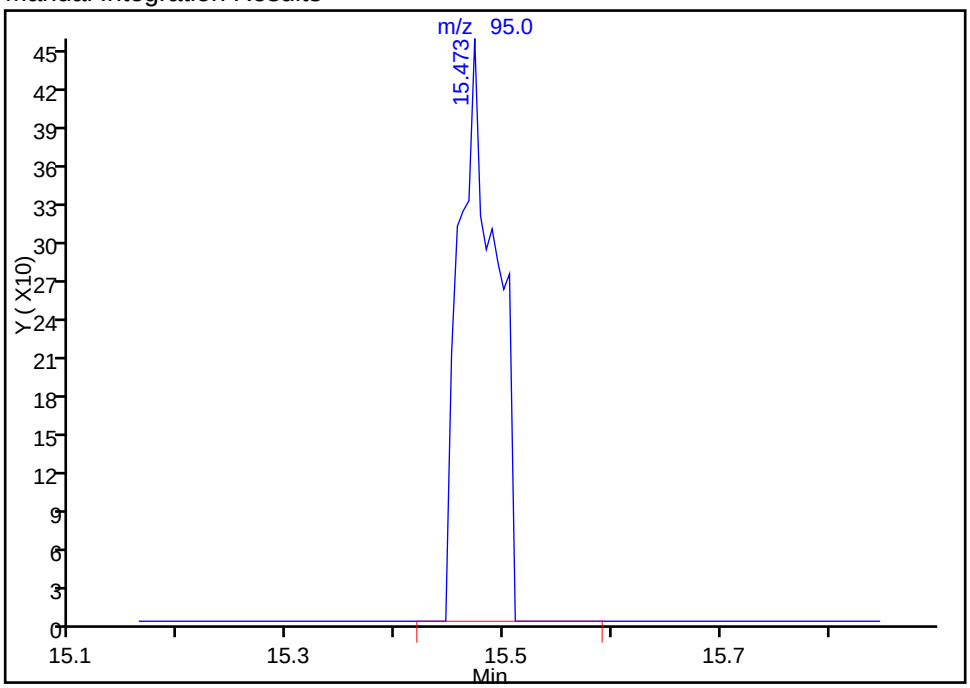
Processing Integration Results

RT: 15.47
Area: 486
Amount: 0.022341
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 1069
Amount: 0.049141
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:00:34
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 DL Lab Sample ID: 200-29972-10 DL

Matrix: Air Lab File ID: 15991_026.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 08:03

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.59	J D	1.5	0.24
75-45-6	Freon 22	86.47	0.53	J D	1.5	0.17
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.60	U	0.60	0.11
74-87-3	Chloromethane	50.49	0.47	J D	1.5	0.28
106-97-8	n-Butane	58.12	5.0	D	1.5	0.23
75-01-4	Vinyl chloride	62.50	0.12	U	0.12	0.096
106-99-0	1,3-Butadiene	54.09	0.60	U	0.60	0.27
74-83-9	Bromomethane	94.94	0.60	U	0.60	0.17
75-00-3	Chloroethane	64.52	1.5	U	1.5	0.25
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.60	U	0.60	0.13
75-69-4	Trichlorofluoromethane	137.37	55	D	0.60	0.11
76-13-1	Freon TF	187.38	0.60	U	0.60	0.22
75-35-4	1,1-Dichloroethene	96.94	1.3	D	0.60	0.11
67-64-1	Acetone	58.08	8.0	J D	15	2.6
67-63-0	Isopropyl alcohol	60.10	9.0	J D	15	2.9
75-15-0	Carbon disulfide	76.14	1.5	U	1.5	0.13
107-05-1	3-Chloropropene	76.53	1.5	U	1.5	0.20
75-09-2	Methylene Chloride	84.93	1.5	U	1.5	0.54
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.5
1634-04-4	Methyl tert-butyl ether	88.15	0.60	U	0.60	0.27
156-60-5	trans-1,2-Dichloroethene	96.94	0.60	U	0.60	0.13
110-54-3	n-Hexane	86.17	0.59	J D	0.60	0.16
75-34-3	1,1-Dichloroethane	98.96	0.43	J D	0.60	0.075
78-93-3	Methyl Ethyl Ketone	72.11	0.76	J D	1.5	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	0.60	U	0.60	0.10
540-59-0	1,2-Dichloroethene, Total	96.94	1.2	U	1.2	0.10
67-66-3	Chloroform	119.38	0.60	U	0.60	0.25
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.2
71-55-6	1,1,1-Trichloroethane	133.41	0.58	J D	0.60	0.14
110-82-7	Cyclohexane	84.16	0.60	U	0.60	0.12
56-23-5	Carbon tetrachloride	153.81	0.12	U	0.12	0.096
540-84-1	2,2,4-Trimethylpentane	114.23	0.27	J D	0.60	0.12
71-43-2	Benzene	78.11	0.52	J D	0.60	0.13
107-06-2	1,2-Dichloroethane	98.96	0.50	J D	0.60	0.12

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 DL | Lab Sample ID: 200-29972-10 DL

Matrix: Air | Lab File ID: 15991_026.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 08:03

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.60	U	0.60	0.12
79-01-6	Trichloroethene	131.39	0.12	U	0.12	0.12
80-62-6	Methyl methacrylate	100.12	1.5	U	1.5	0.12
78-87-5	1,2-Dichloropropane	112.99	0.60	U	0.60	0.081
123-91-1	1,4-Dioxane	88.11	15	U	15	1.7
75-27-4	Bromodichloromethane	163.83	0.60	U	0.60	0.090
10061-01-5	cis-1,3-Dichloropropene	110.97	0.60	U	0.60	0.069
108-10-1	methyl isobutyl ketone	100.16	1.5	U	1.5	0.15
108-88-3	Toluene	92.14	1.3	D	0.60	0.28
10061-02-6	trans-1,3-Dichloropropene	110.97	0.60	U	0.60	0.10
79-00-5	1,1,2-Trichloroethane	133.41	0.60	U	0.60	0.12
127-18-4	Tetrachloroethene	165.83	0.60	U	0.60	0.069
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.5	U	1.5	0.17
124-48-1	Dibromochloromethane	208.29	0.60	U	0.60	0.13
106-93-4	1,2-Dibromoethane	187.87	0.60	U	0.60	0.12
108-90-7	Chlorobenzene	112.56	0.60	U	0.60	0.15
100-41-4	Ethylbenzene	106.17	0.19	J D	0.60	0.099
179601-23-1	m,p-Xylene	106.17	0.61	J D	1.5	0.21
95-47-6	Xylene, o-	106.17	0.21	J D	0.60	0.11
1330-20-7	Xylene (total)	106.17	0.82	J D	2.1	0.11
100-42-5	Styrene	104.15	0.60	U	0.60	0.13
75-25-2	Bromoform	252.75	0.60	U	0.60	0.17
98-82-8	Cumene	120.19	0.60	U	0.60	0.090
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.60	U	0.60	0.13
103-65-1	n-Propylbenzene	120.19	0.60	U	0.60	0.13
622-96-8	4-Ethyltoluene	120.20	0.60	U	0.60	0.13
108-67-8	1,3,5-Trimethylbenzene	120.20	0.60	U	0.60	0.12
95-49-8	2-Chlorotoluene	126.59	0.60	U	0.60	0.099
98-06-6	tert-Butylbenzene	134.22	0.60	U	0.60	0.13
95-63-6	1,2,4-Trimethylbenzene	120.20	0.24	J D	0.60	0.13
135-98-8	sec-Butylbenzene	134.22	0.60	U	0.60	0.13
99-87-6	4-Isopropyltoluene	134.22	0.60	U	0.60	0.11
541-73-1	1,3-Dichlorobenzene	147.00	0.60	U	0.60	0.16
106-46-7	1,4-Dichlorobenzene	147.00	0.60	U	0.60	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 DL Lab Sample ID: 200-29972-10 DL

Matrix: Air Lab File ID: 15991_026.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 08:03

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.60*	*U*	*0.60*	*0.16*
104-51-8	*n-Butylbenzene*	*134.22*	*0.60*	*U*	*0.60*	*0.14*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.60*	*U*	*0.60*	*0.16*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*1.5*	*U*	*1.5*	*0.20*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.60*	*U*	*0.60*	*0.25*
91-20-3	*Naphthalene*	*128.17*	*1.5*	*U*	*1.5*	*0.17*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 DL Lab Sample ID: 200-29972-10 DL

Matrix: Air Lab File ID: 15991_026.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 08:03

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.9	J D	7.4	1.2
75-45-6	Freon 22	86.47	1.9	J D	5.3	0.60
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	4.2	U	4.2	0.79
74-87-3	Chloromethane	50.49	0.98	J D	3.1	0.57
106-97-8	n-Butane	58.12	12	D	3.6	0.55
75-01-4	Vinyl chloride	62.50	0.31	U	0.31	0.24
106-99-0	1,3-Butadiene	54.09	1.3	U	1.3	0.59
74-83-9	Bromomethane	94.94	2.3	U	2.3	0.65
75-00-3	Chloroethane	64.52	3.9	U	3.9	0.67
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.6	U	2.6	0.58
75-69-4	Trichlorofluoromethane	137.37	310	D	3.4	0.64
76-13-1	Freon TF	187.38	4.6	U	4.6	1.7
75-35-4	1,1-Dichloroethene	96.94	5.1	D	2.4	0.43
67-64-1	Acetone	58.08	19	J D	36	6.1
67-63-0	Isopropyl alcohol	60.10	22	J D	37	7.2
75-15-0	Carbon disulfide	76.14	4.7	U	4.7	0.40
107-05-1	3-Chloropropene	76.53	4.7	U	4.7	0.64
75-09-2	Methylene Chloride	84.93	5.2	U	5.2	1.9
75-65-0	tert-Butyl alcohol	74.12	45	U	45	7.7
1634-04-4	Methyl tert-butyl ether	88.15	2.2	U	2.2	0.96
156-60-5	trans-1,2-Dichloroethene	96.94	2.4	U	2.4	0.51
110-54-3	n-Hexane	86.17	2.1	J D	2.1	0.57
75-34-3	1,1-Dichloroethane	98.96	1.8	J D	2.4	0.30
78-93-3	Methyl Ethyl Ketone	72.11	2.2	J D	4.4	0.46
156-59-2	cis-1,2-Dichloroethene	96.94	2.4	U	2.4	0.41
540-59-0	1,2-Dichloroethene, Total	96.94	4.7	U	4.7	0.41
67-66-3	Chloroform	119.38	2.9	U	2.9	1.2
109-99-9	Tetrahydrofuran	72.11	44	U	44	12
71-55-6	1,1,1-Trichloroethane	133.41	3.2	J D	3.3	0.75
110-82-7	Cyclohexane	84.16	2.1	U	2.1	0.40
56-23-5	Carbon tetrachloride	153.81	0.75	U	0.75	0.60
540-84-1	2,2,4-Trimethylpentane	114.23	1.3	J D	2.8	0.54
71-43-2	Benzene	78.11	1.7	J D	1.9	0.40
107-06-2	1,2-Dichloroethane	98.96	2.0	J D	2.4	0.50

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 DL | Lab Sample ID: 200-29972-10 DL

Matrix: Air | Lab File ID: 15991_026.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:51

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 08:03

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	2.5	U	2.5	0.49
79-01-6	Trichloroethene	131.39	0.64	U	0.64	0.63
80-62-6	Methyl methacrylate	100.12	6.1	U	6.1	0.49
78-87-5	1,2-Dichloropropane	112.99	2.8	U	2.8	0.37
123-91-1	1,4-Dioxane	88.11	54	U	54	6.0
75-27-4	Bromodichloromethane	163.83	4.0	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	110.97	2.7	U	2.7	0.31
108-10-1	methyl isobutyl ketone	100.16	6.1	U	6.1	0.61
108-88-3	Toluene	92.14	4.8	D	2.3	1.0
10061-02-6	trans-1,3-Dichloropropene	110.97	2.7	U	2.7	0.46
79-00-5	1,1,2-Trichloroethane	133.41	3.3	U	3.3	0.64
127-18-4	Tetrachloroethene	165.83	4.1	U	4.1	0.47
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	6.1	U	6.1	0.70
124-48-1	Dibromochloromethane	208.29	5.1	U	5.1	1.1
106-93-4	1,2-Dibromoethane	187.87	4.6	U	4.6	0.90
108-90-7	Chlorobenzene	112.56	2.8	U	2.8	0.67
100-41-4	Ethylbenzene	106.17	0.84	J D	2.6	0.43
179601-23-1	m,p-Xylene	106.17	2.7	J D	6.5	0.92
95-47-6	Xylene, o-	106.17	0.90	J D	2.6	0.48
1330-20-7	Xylene (total)	106.17	3.6	J D	9.1	0.48
100-42-5	Styrene	104.15	2.5	U	2.5	0.55
75-25-2	Bromoform	252.75	6.2	U	6.2	1.7
98-82-8	Cumene	120.19	2.9	U	2.9	0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	4.1	U	4.1	0.90
103-65-1	n-Propylbenzene	120.19	2.9	U	2.9	0.63
622-96-8	4-Ethyltoluene	120.20	2.9	U	2.9	0.65
108-67-8	1,3,5-Trimethylbenzene	120.20	2.9	U	2.9	0.57
95-49-8	2-Chlorotoluene	126.59	3.1	U	3.1	0.51
98-06-6	tert-Butylbenzene	134.22	3.3	U	3.3	0.72
95-63-6	1,2,4-Trimethylbenzene	120.20	1.2	J D	2.9	0.63
135-98-8	sec-Butylbenzene	134.22	3.3	U	3.3	0.72
99-87-6	4-Isopropyltoluene	134.22	3.3	U	3.3	0.61
541-73-1	1,3-Dichlorobenzene	147.00	3.6	U	3.6	0.99
106-46-7	1,4-Dichlorobenzene	147.00	3.6	U	3.6	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA05-092315 DL Lab Sample ID: 200-29972-10 DL

Matrix: Air Lab File ID: 15991_026.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:51

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 08:03

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*3.1*	*U*	*3.1*	*0.82*
104-51-8	*n-Butylbenzene*	*134.22*	*3.3*	*U*	*3.3*	*0.77*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*3.6*	*U*	*3.6*	*0.99*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*11*	*U*	*11*	*1.5*
87-68-3	*Hexachlorobutadiene*	*260.76*	*6.4*	*U*	*6.4*	*2.6*
91-20-3	*Naphthalene*	*128.17*	*7.8*	*U*	*7.8*	*0.89*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d
Lims ID: 200-29972-A-10 Lab Sample ID: 200-29972-10
Client ID: FR-IA05-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 08:03:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 200.000 mL Dil. Factor: 2.9900
Sample Info: 200-0015991-026
Misc. Info.: 29972-10
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 13:02:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.410	4.426	-0.016	98	12932	0.1972	
3 Chlorodifluoromethane	51	4.490	4.495	-0.005	94	4704	0.1779	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.003	5.009	-0.006	93	2035	0.1588	
6 Butane	43	5.276	5.282	-0.006	96	31390	1.68	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.293	7.288	0.005	98	1380142	18.5	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.668	8.663	0.005	95	9144	0.4279	
22 Acetone	43	8.951	8.935	0.016	97	61922	2.68	
23 Carbon disulfide	76	9.171	9.160	0.011	37	1540	0.0299	
24 Isopropyl alcohol	45	9.224	9.219	0.005	98	55165	2.99	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.930	9.925	0.005	80	1864	0.1100	
28 2-Methyl-2-propanol	59	10.112	10.112	0.000	87	2400	0.0737	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	88	4411	0.1962	
34 1,1-Dichloroethane	63	11.418	11.428	-0.010	97	4827	0.1454	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.648	12.653	-0.005	98	2701	0.2528	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	75	206544	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	94	11563	0.1942	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.788	13.782	0.006	87	1575	0.0240	
46 Isooctane	57	14.183	14.183	0.000	95	6896	0.0916	
47 Benzene	78	14.248	14.253	-0.005	93	11315	0.1743	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	97	5239	0.1681	
49 n-Heptane	43		14.531				ND	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	959113	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
65 Toluene	92	17.950	17.960	-0.010	93	21757	0.4240	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166		18.987				ND	
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.2736	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	886956	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.897	20.897	0.000	95	7411	0.0646	
78 m-Xylene & p-Xylene	106	21.101	21.106	-0.005	0	9483	0.2046	
79 o-Xylene	106	21.796	21.801	-0.005	96	3152	0.0690	
80 Styrene	104	21.834	21.839	-0.005	87	2623	0.0366	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.352	22.352	0.000	87	1742	0.0124	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91		22.973				ND	
88 4-Ethyltoluene	105	23.139	23.144	-0.005	94	2737	0.0177	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	93	2701	0.0202	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	10597	0.0799	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.273	24.268	0.005	94	3631	0.0222	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.492	24.482	0.010	73	2025	0.0187	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.761	28.767	-0.006	97	7798	0.0465	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

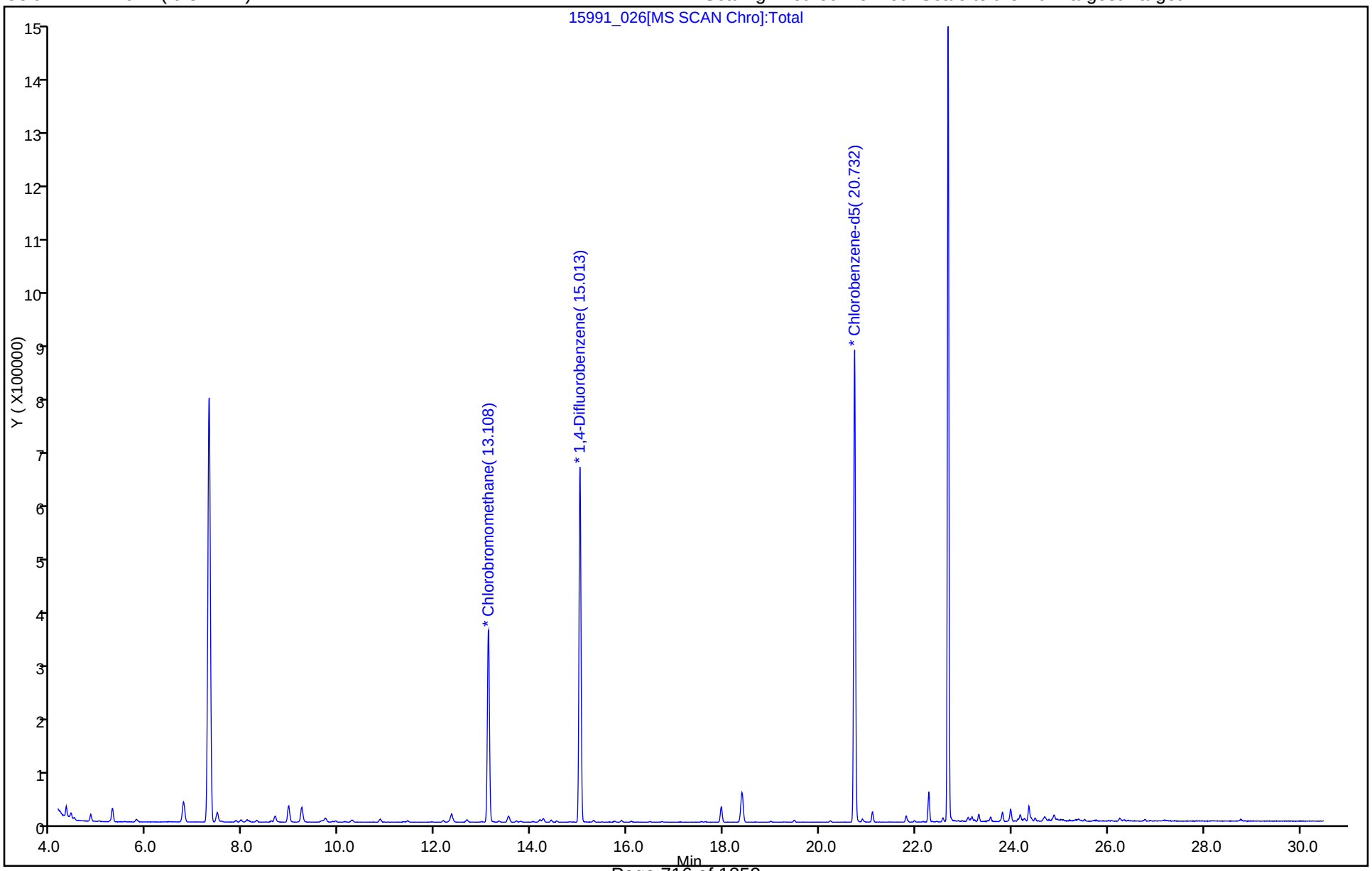
Report Date: 30-Sep-2015 14:18:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10	Worklist Smp#:	26
Client ID:	FR-IA05-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.9900	ALS Bottle#:	25
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



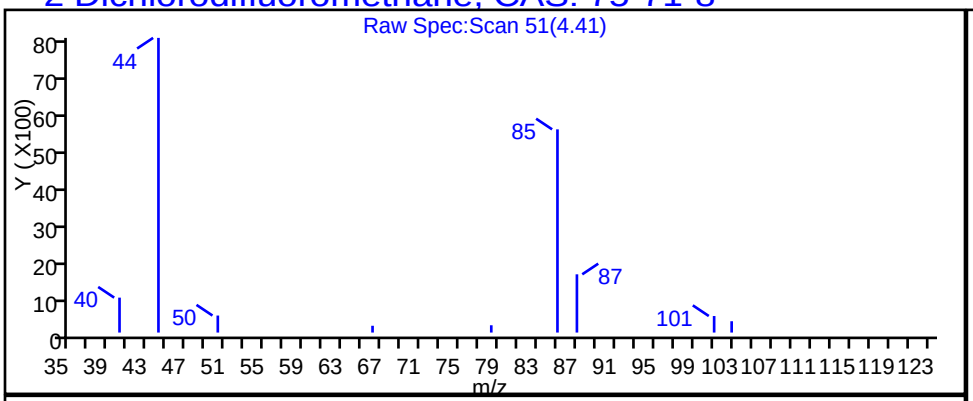
Report Date: 30-Sep-2015 14:18:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

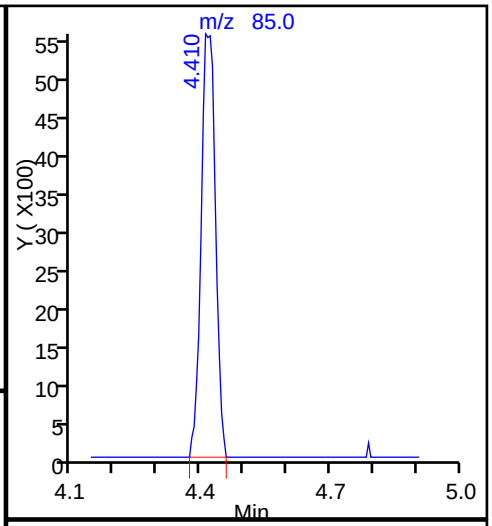
TestAmerica Burlington

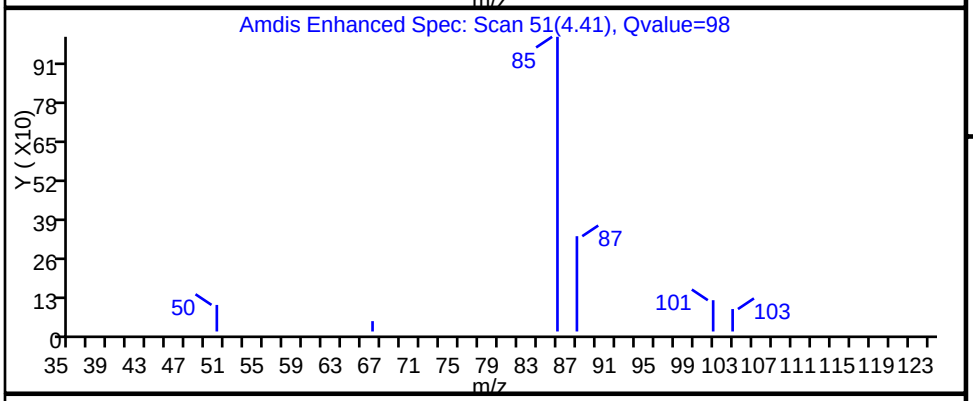
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

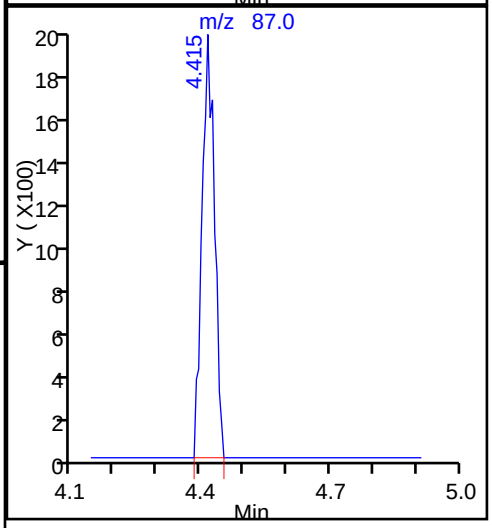
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

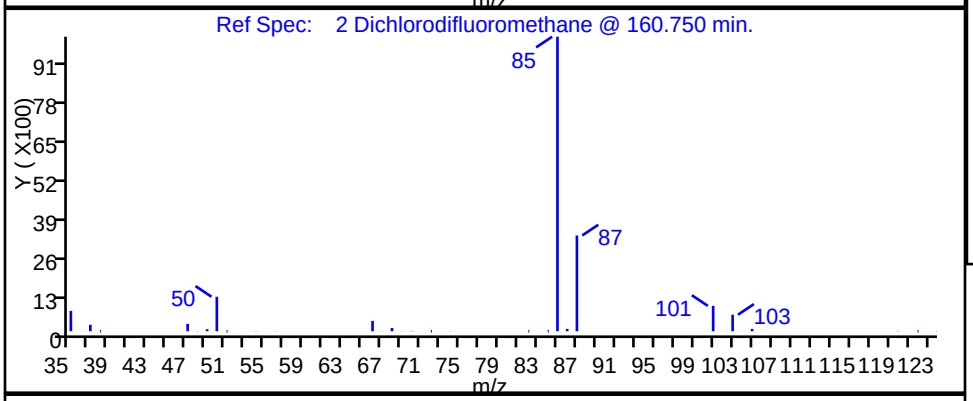
2 Dichlorodifluoromethane, CAS: 75-71-8

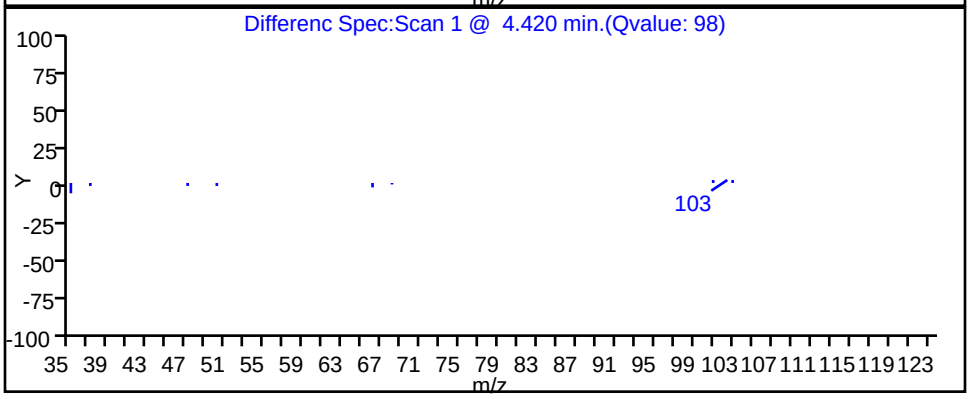












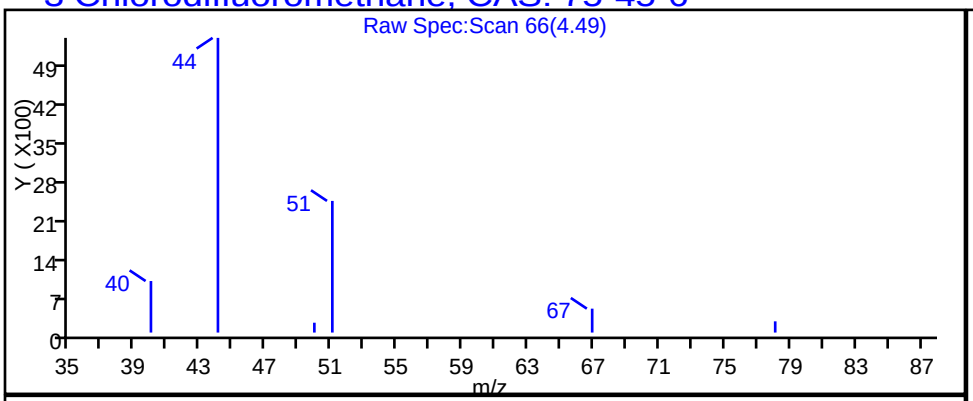
Report Date: 30-Sep-2015 14:18:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

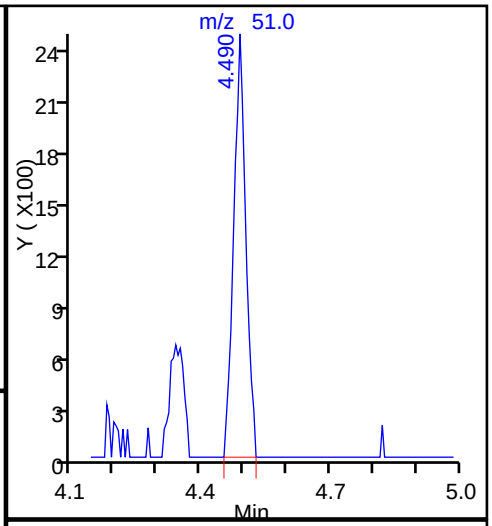
TestAmerica Burlington

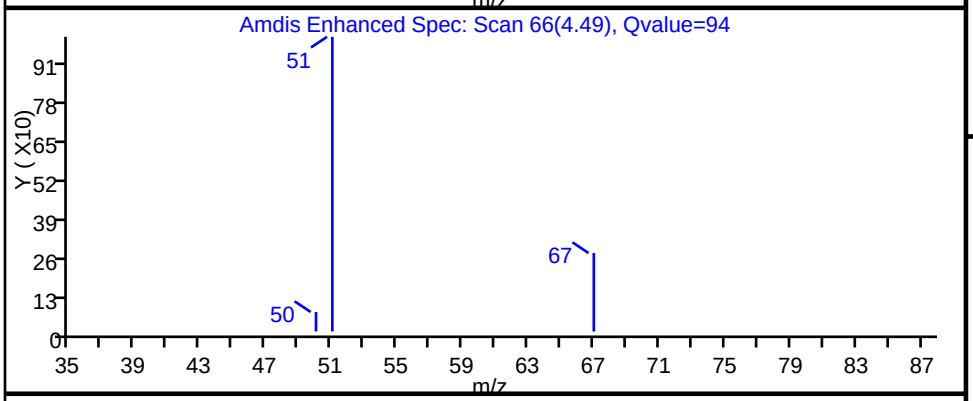
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

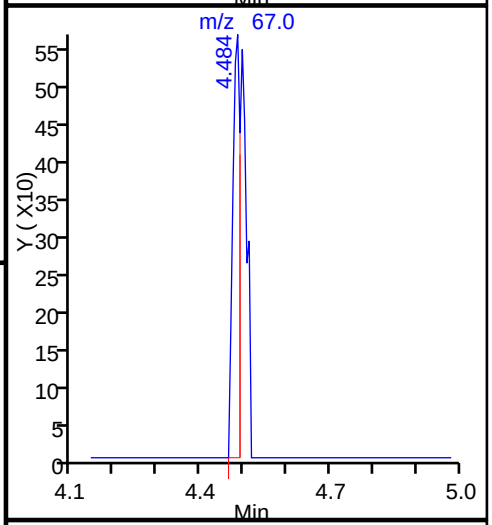
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

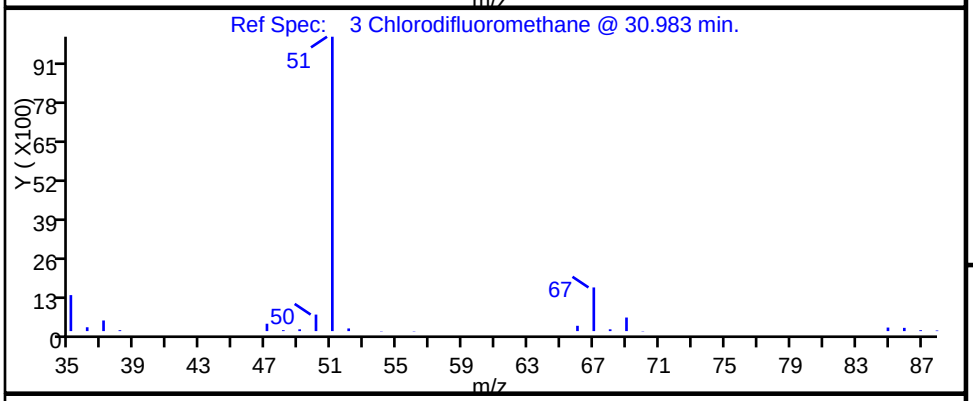
3 Chlorodifluoromethane, CAS: 75-45-6

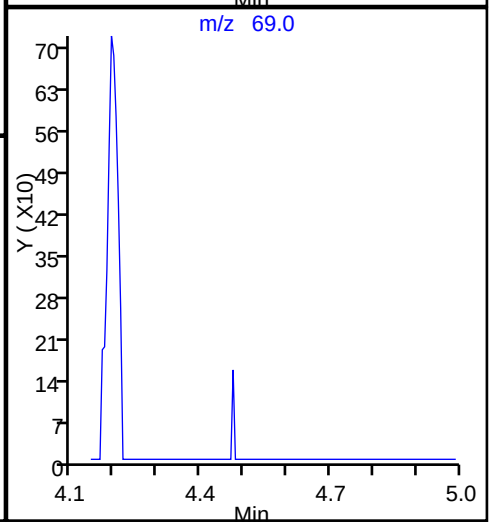


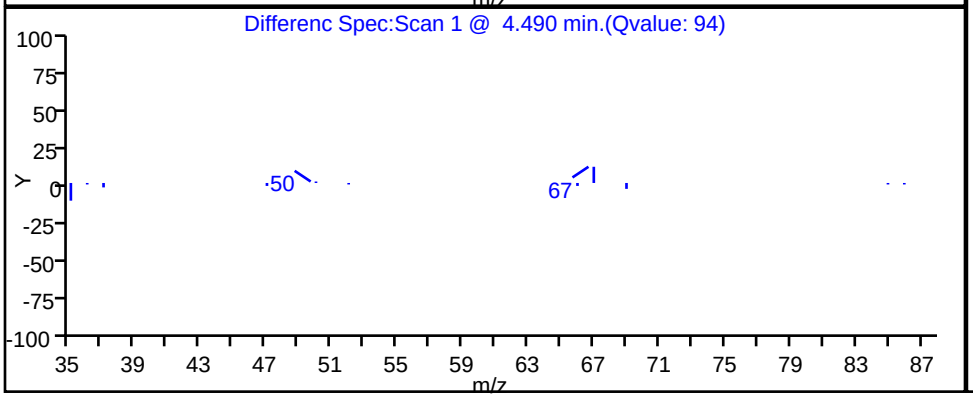












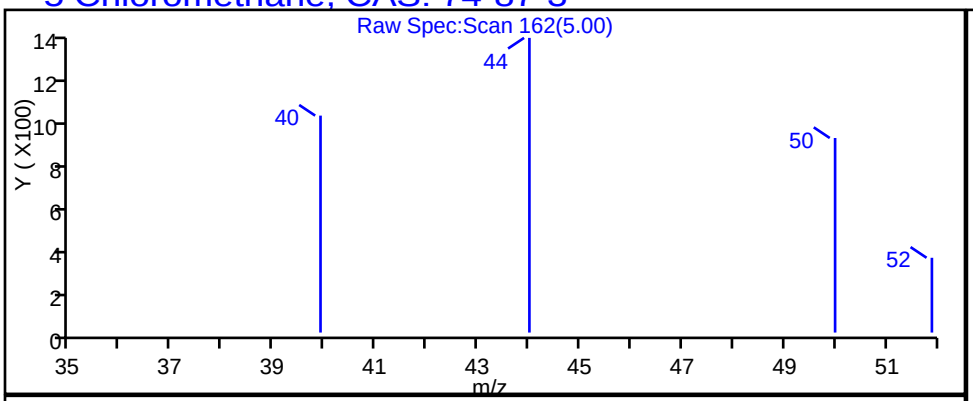
Report Date: 30-Sep-2015 14:18:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

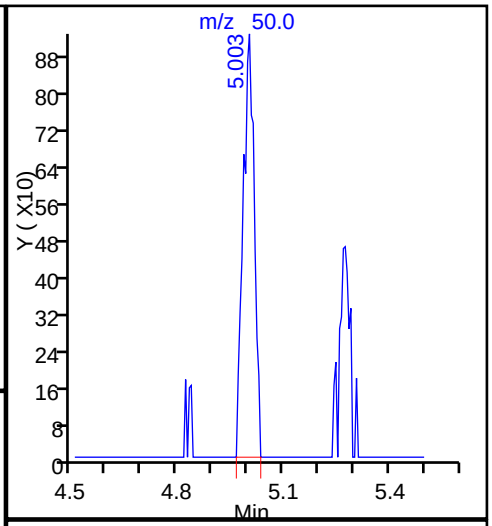
TestAmerica Burlington

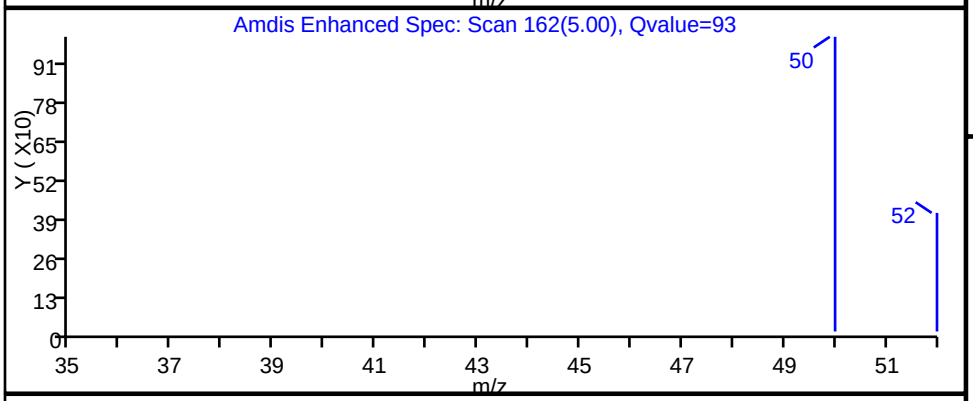
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

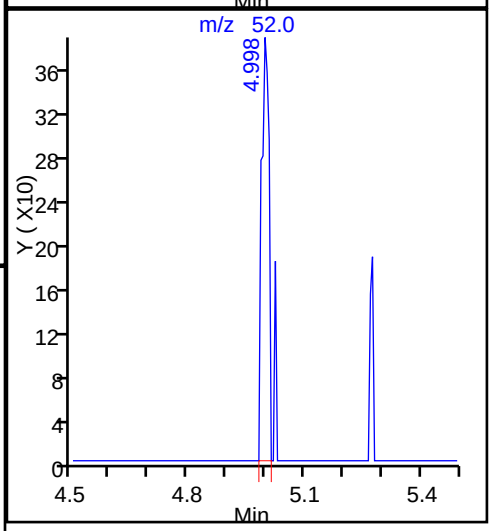
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

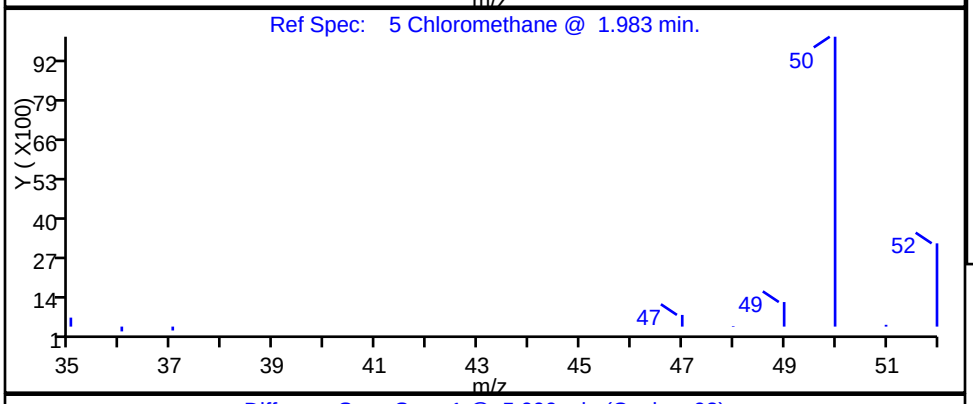
5 Chloromethane, CAS: 74-87-3

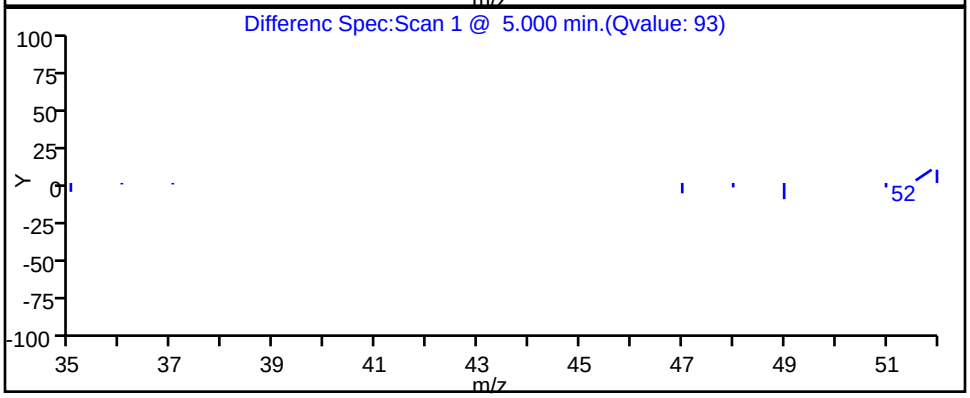












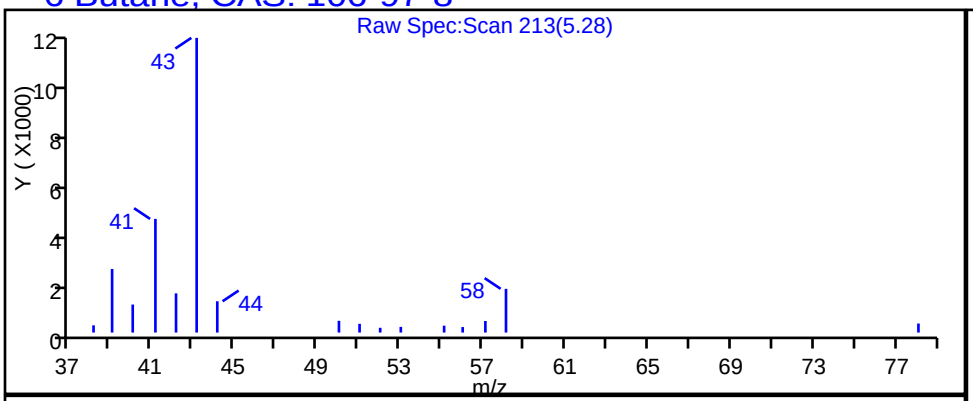
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

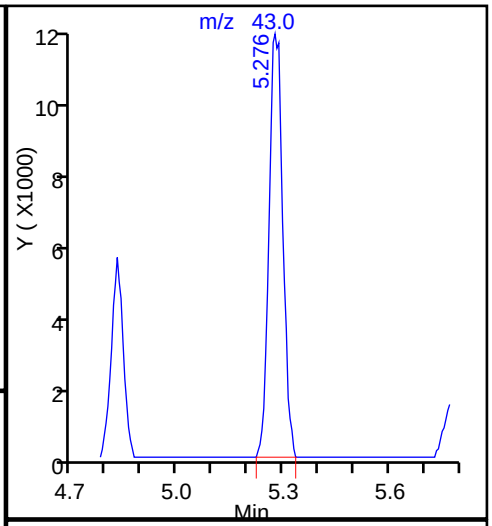
TestAmerica Burlington

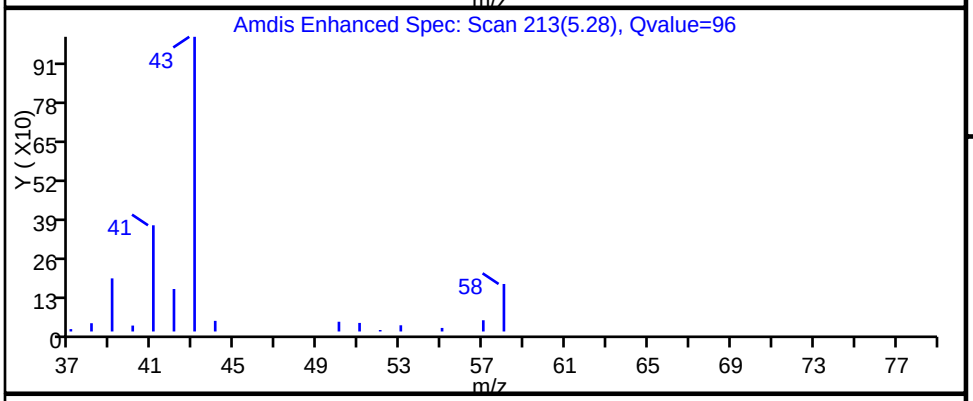
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

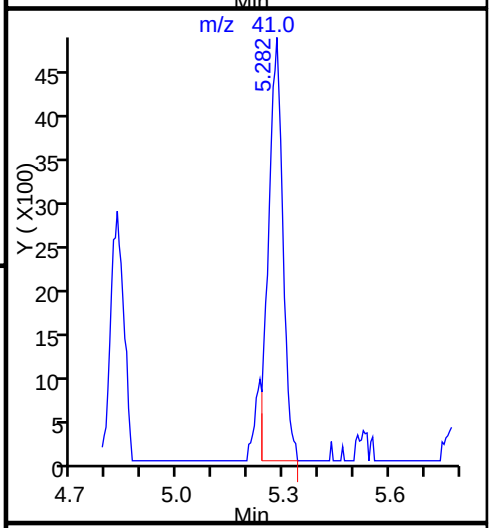
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

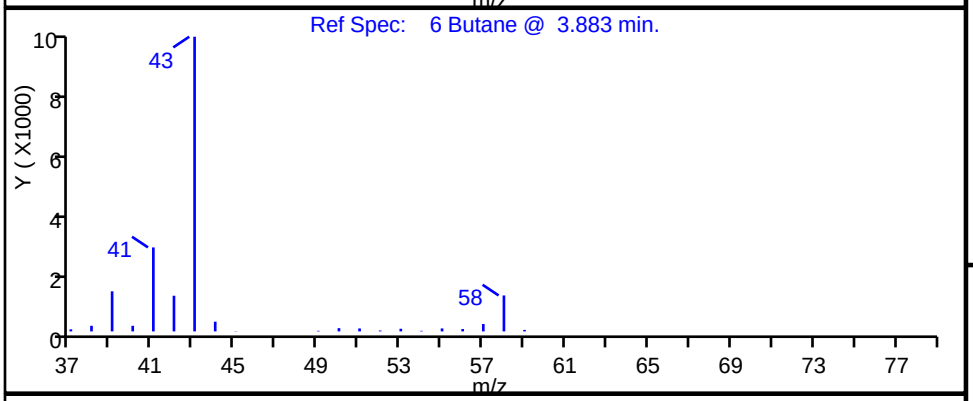
6 Butane, CAS: 106-97-8

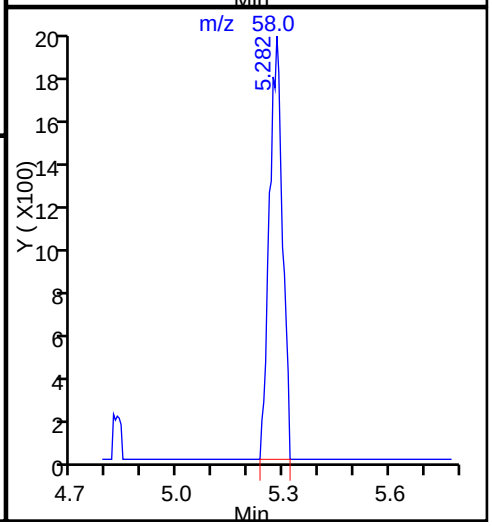


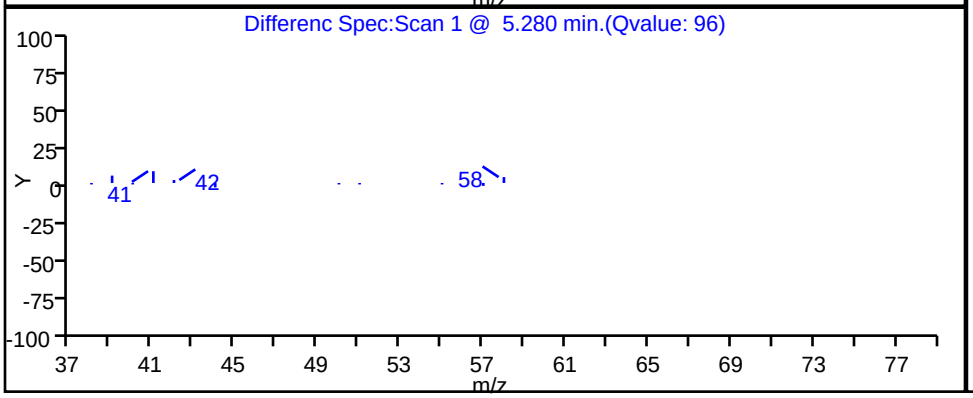












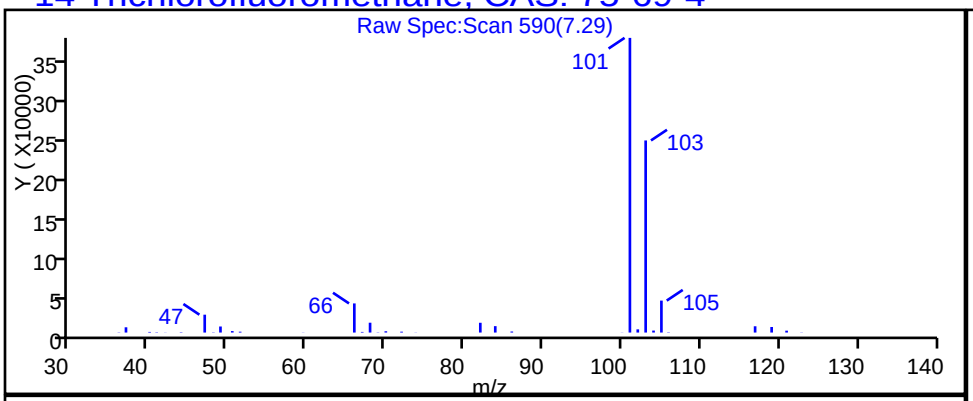
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

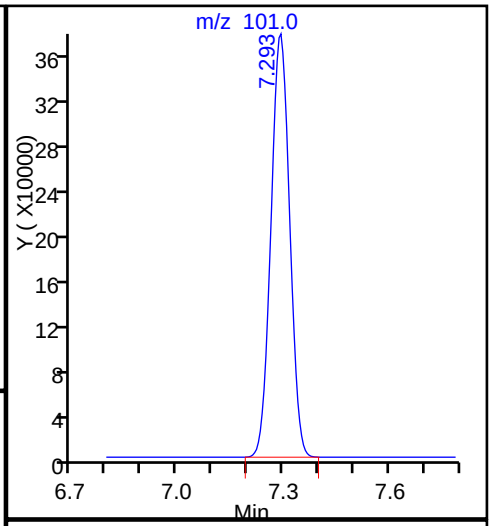
TestAmerica Burlington

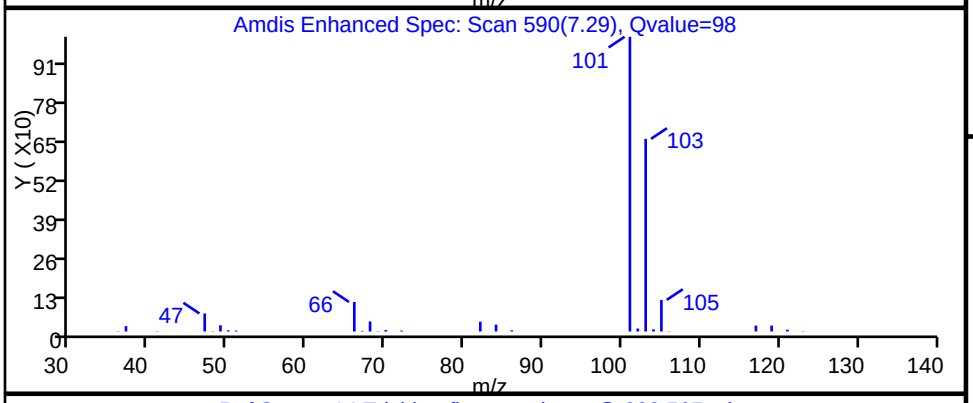
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

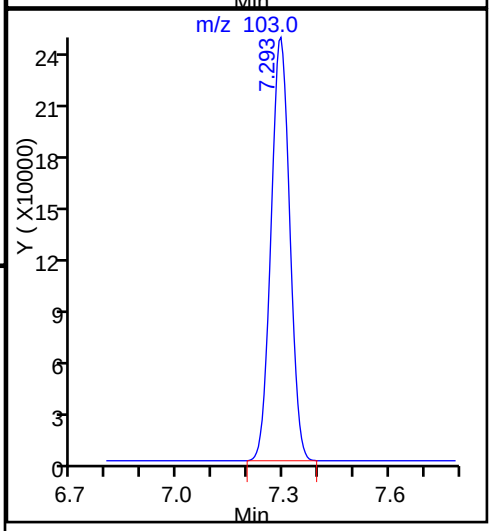
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

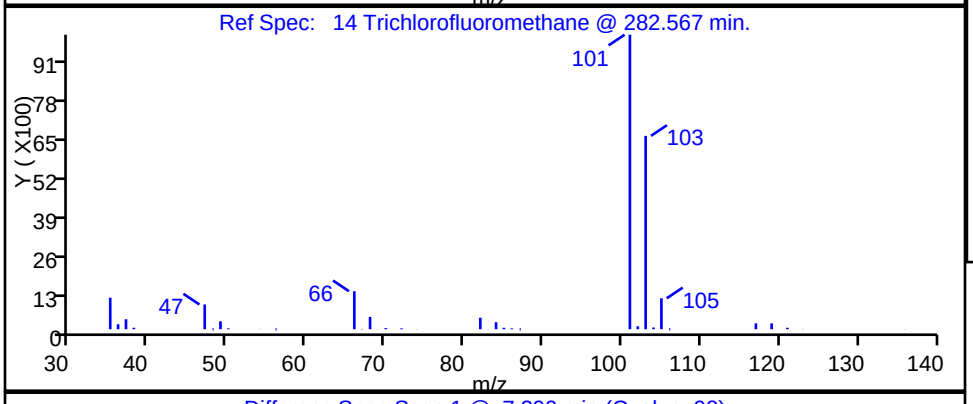
14 Trichlorofluoromethane, CAS: 75-69-4

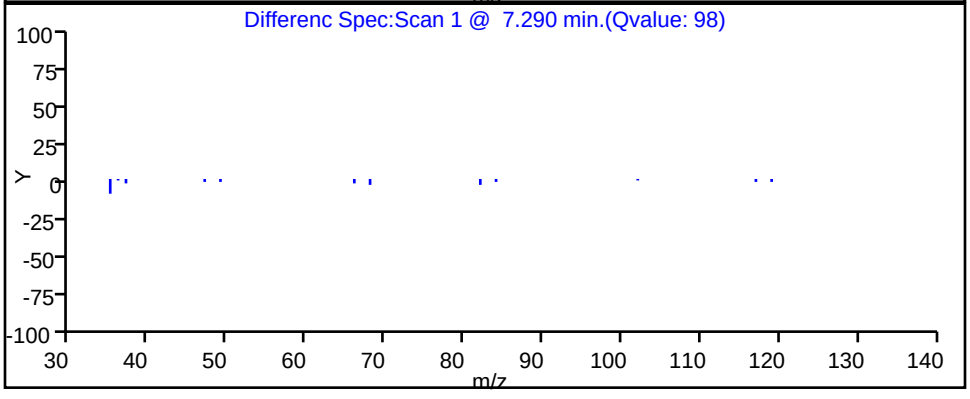












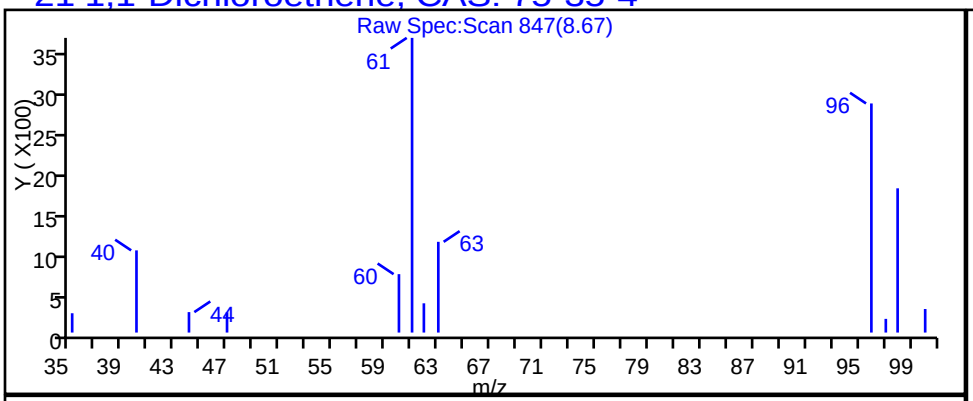
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

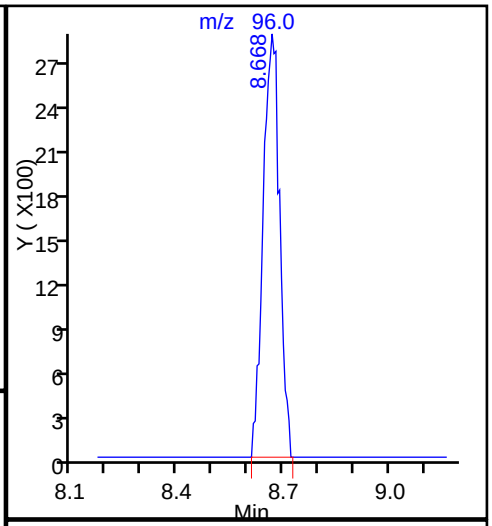
TestAmerica Burlington

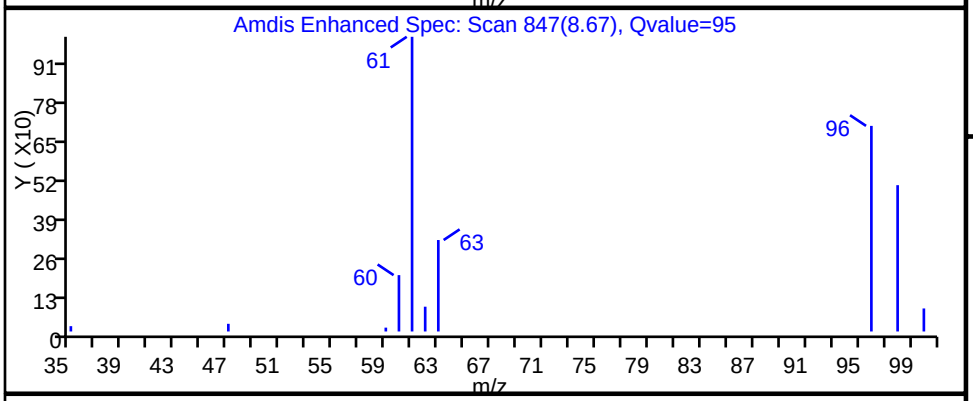
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

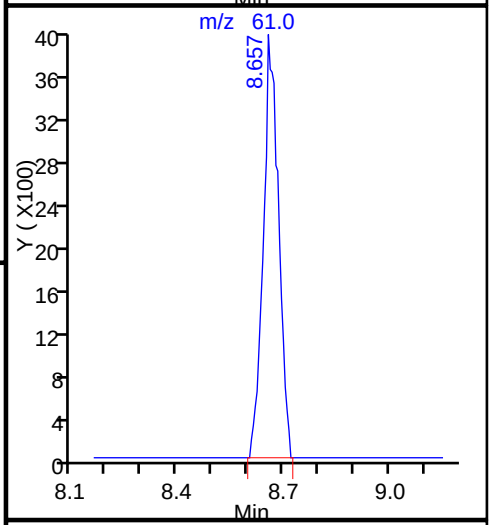
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

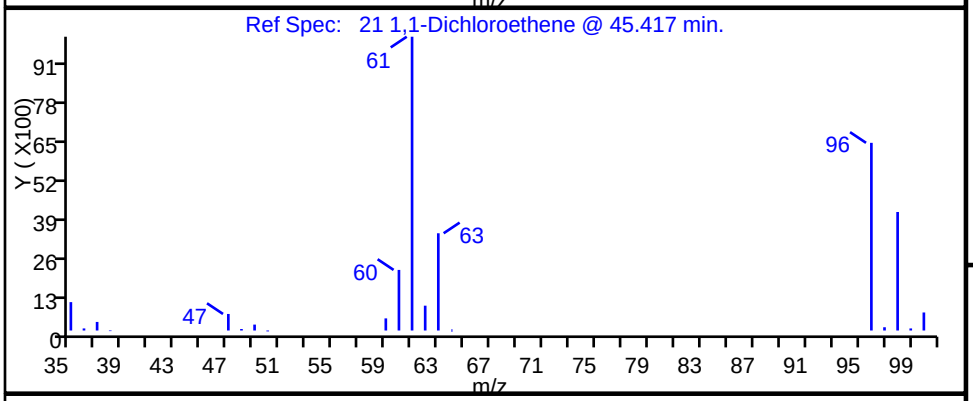
21 1,1-Dichloroethene, CAS: 75-35-4

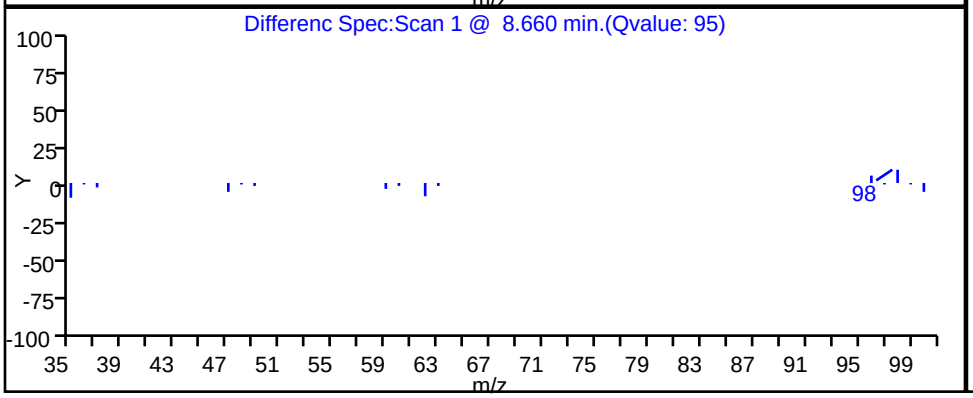


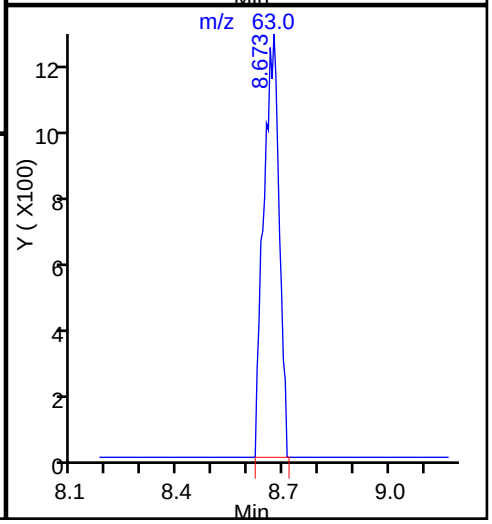












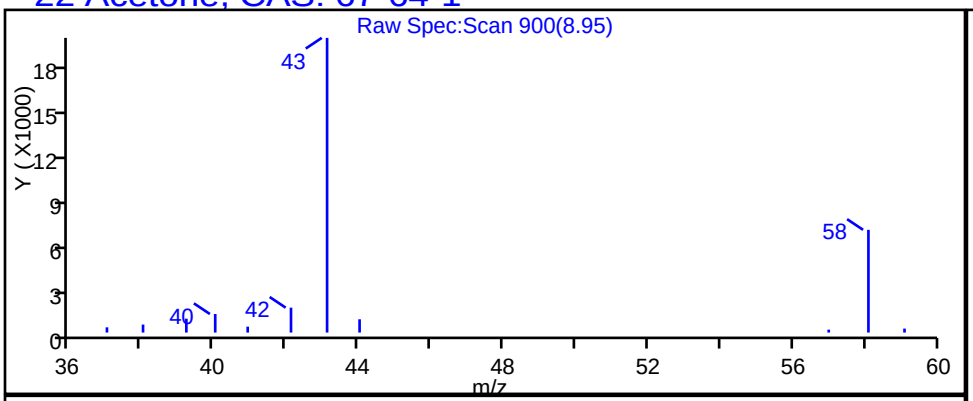
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

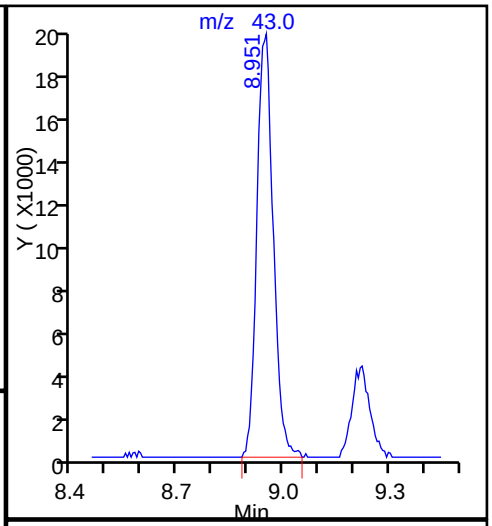
TestAmerica Burlington

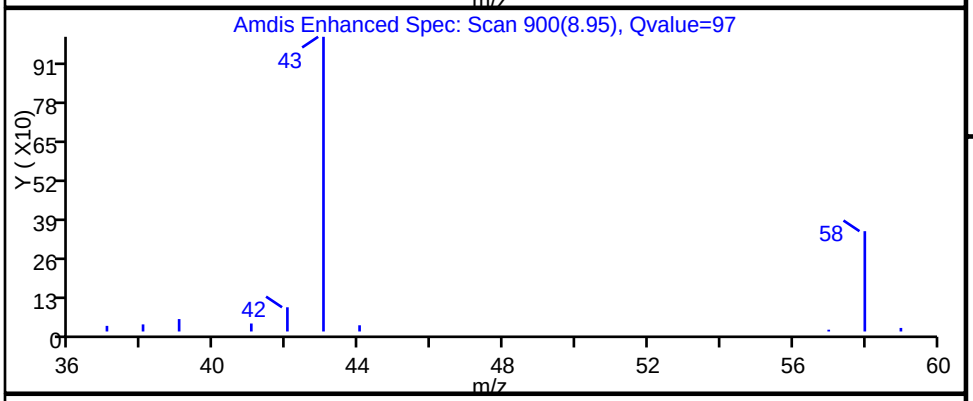
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

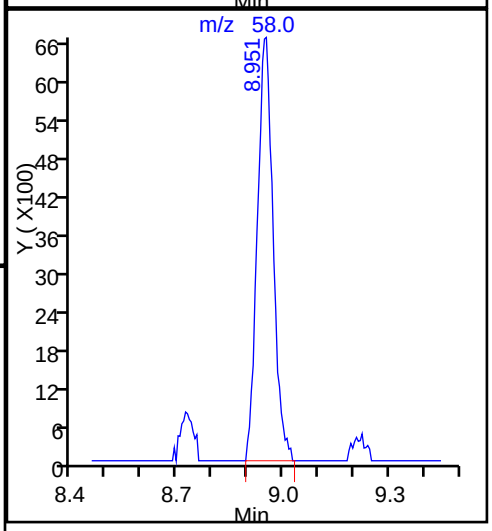
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10
Client ID:	FR-IA05-092315		
Operator ID:	pad	ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

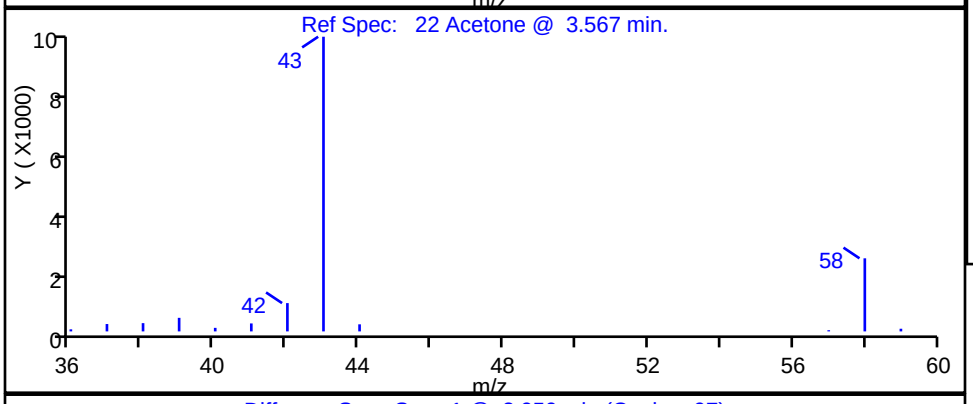
22 Acetone, CAS: 67-64-1

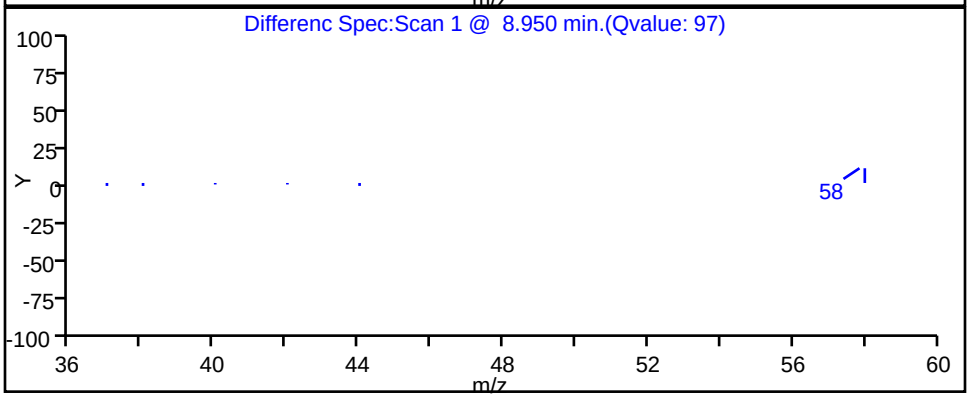












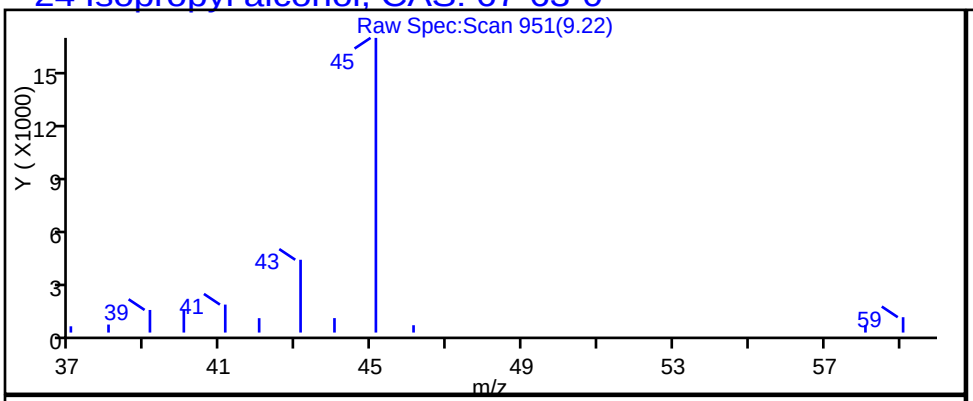
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

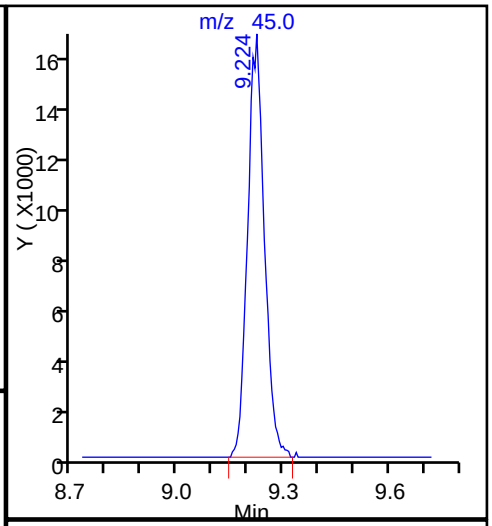
TestAmerica Burlington

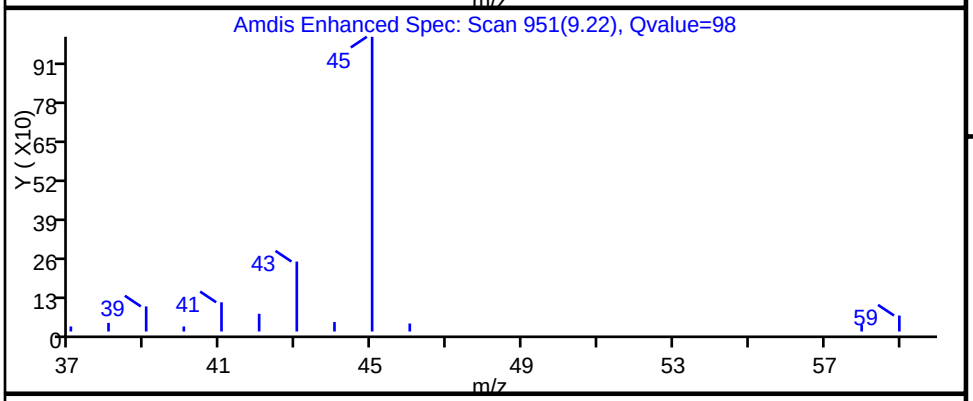
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

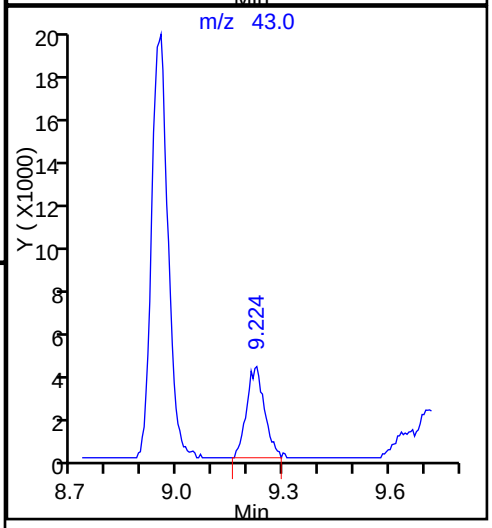
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

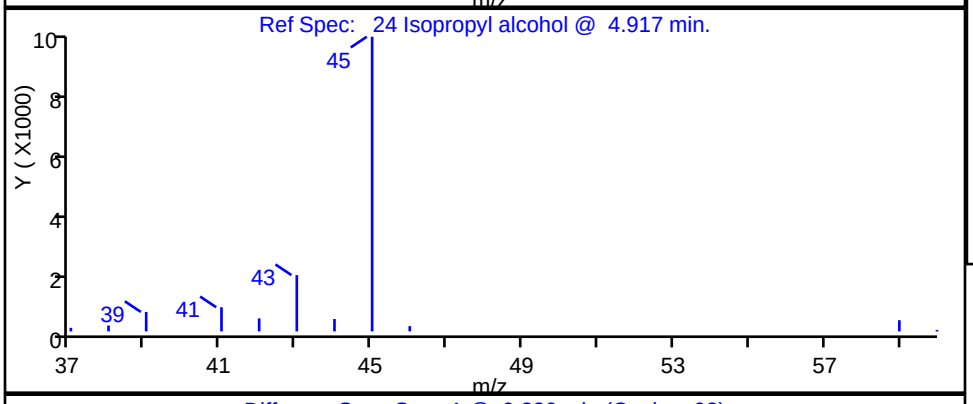
24 Isopropyl alcohol, CAS: 67-63-0

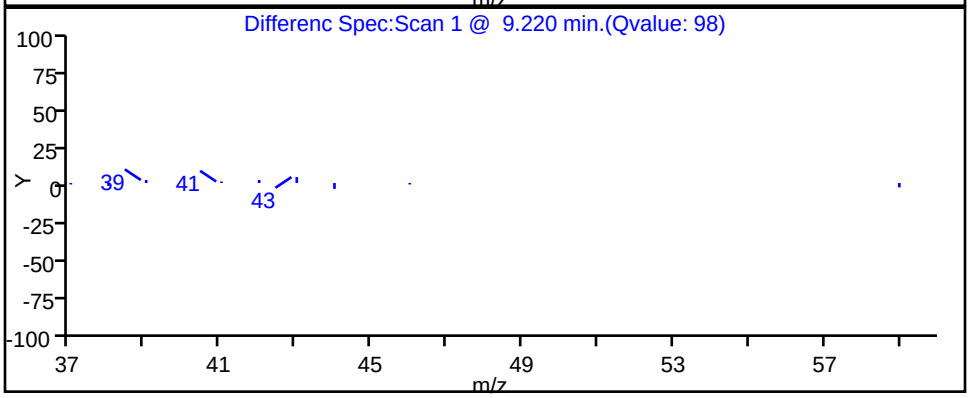










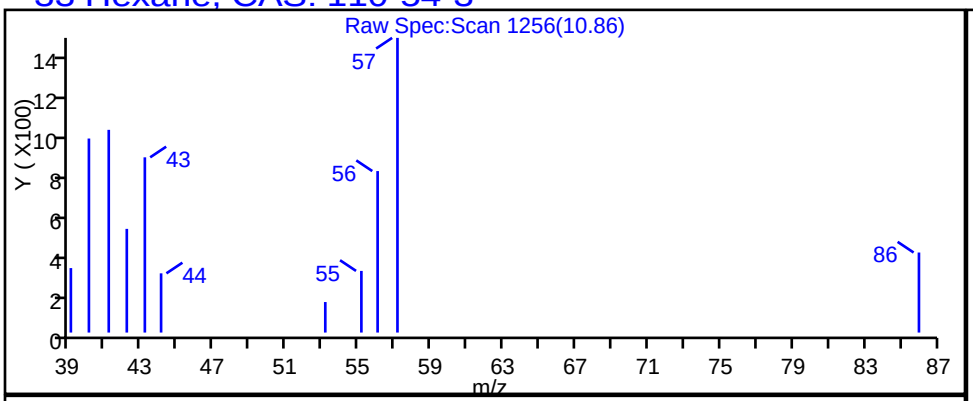


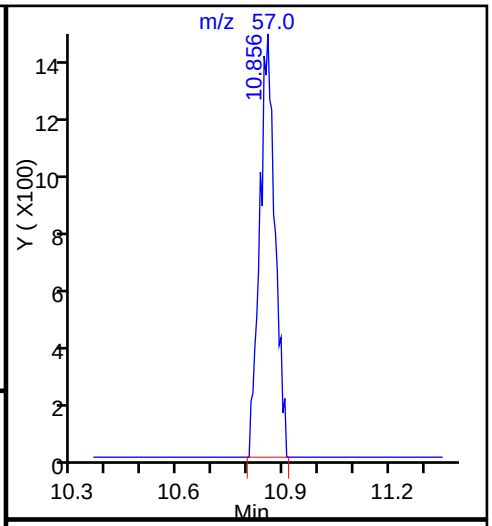
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

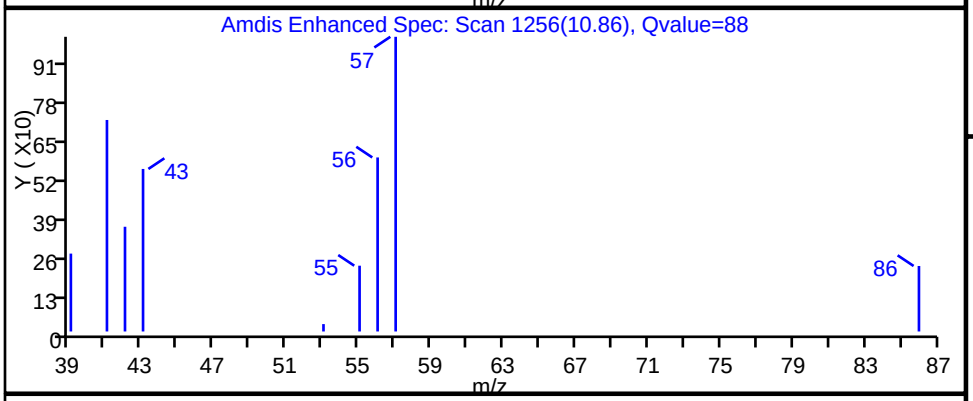
TestAmerica Burlington

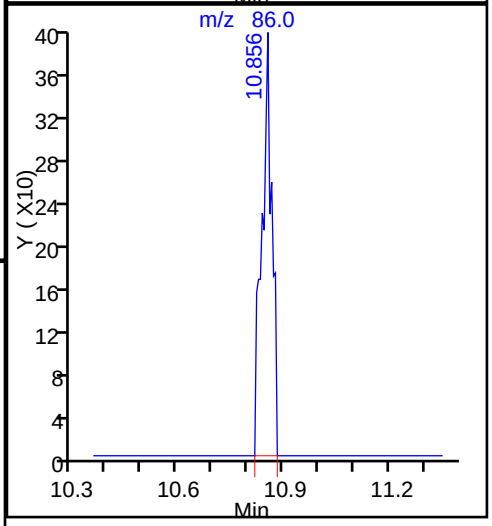
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d				
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

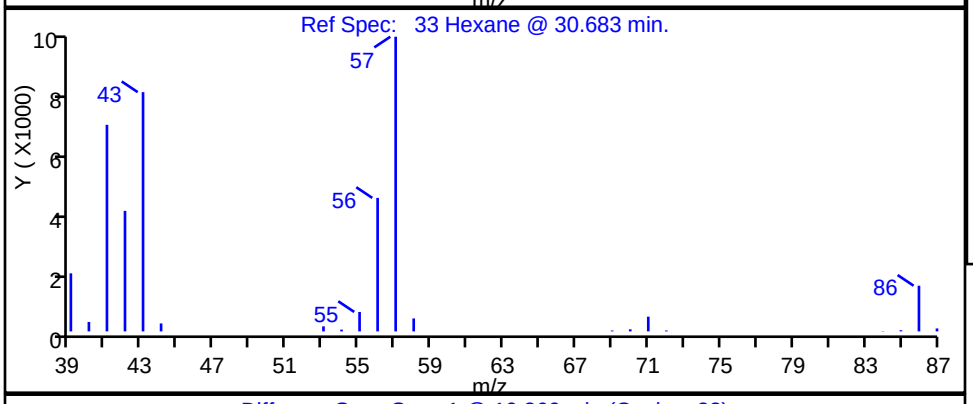
33 Hexane, CAS: 110-54-3

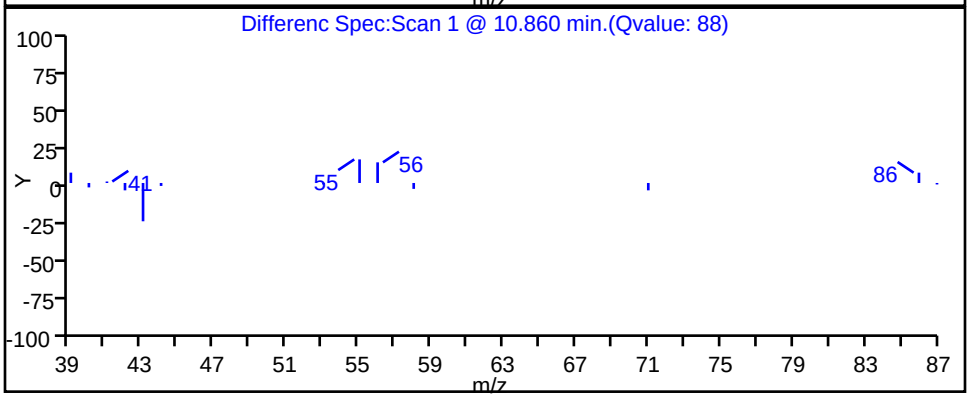












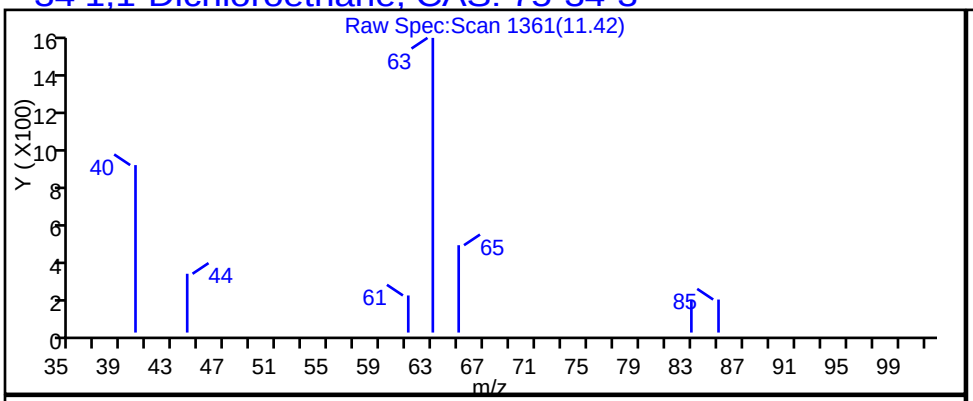
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

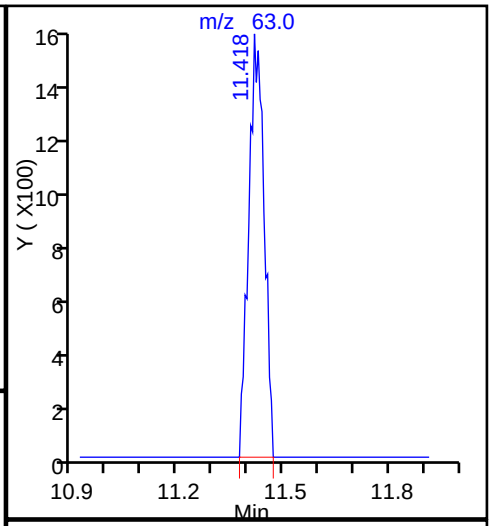
TestAmerica Burlington

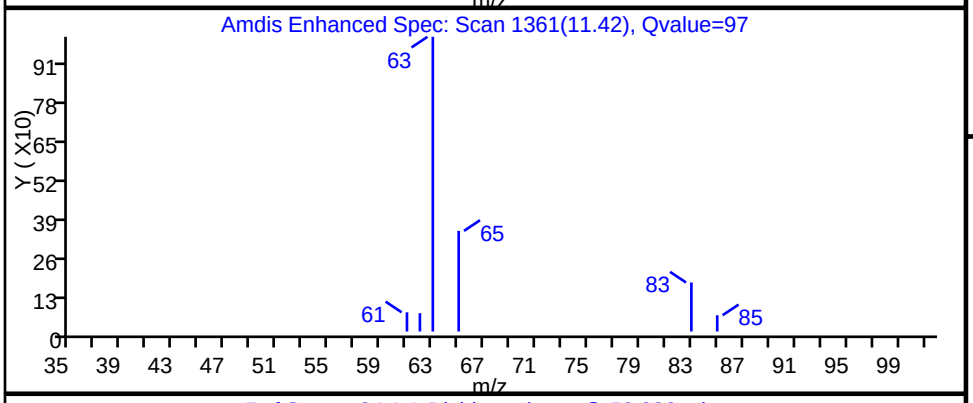
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

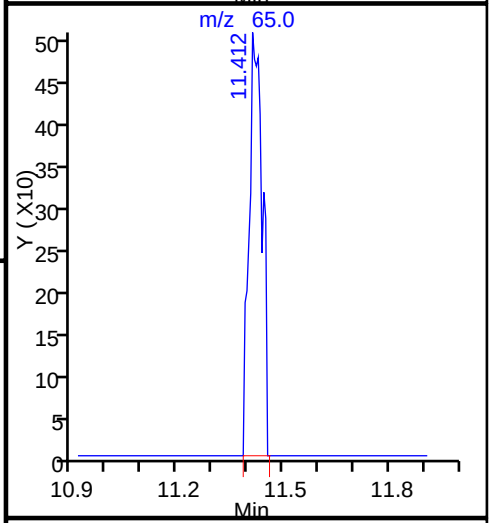
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

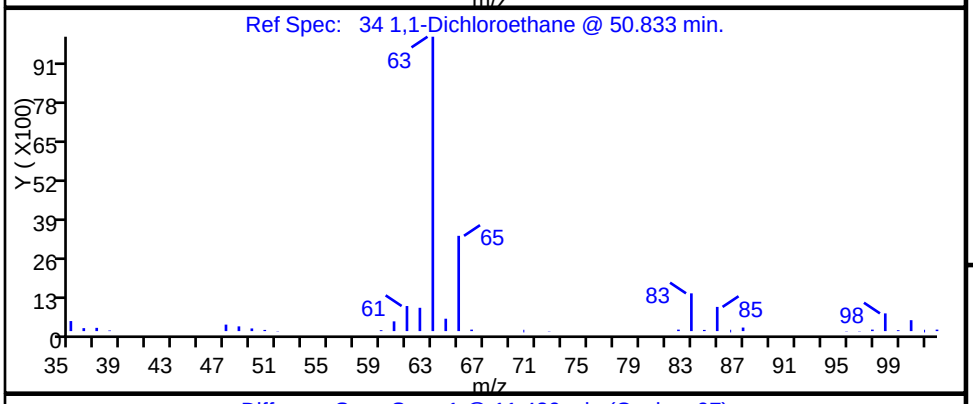
34 1,1-Dichloroethane, CAS: 75-34-3

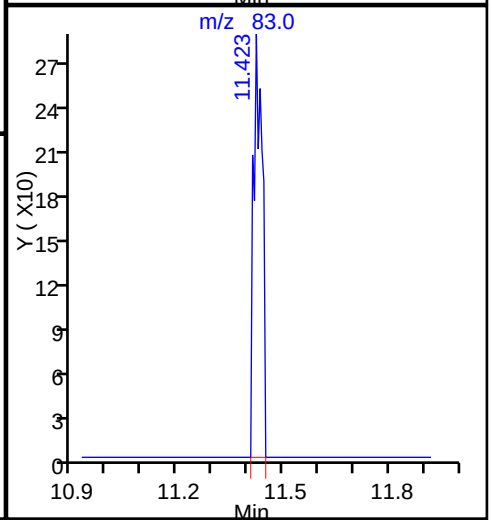


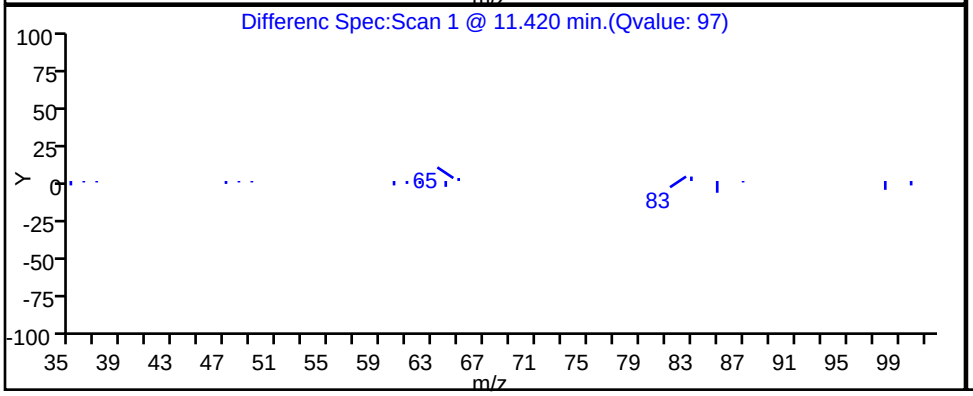












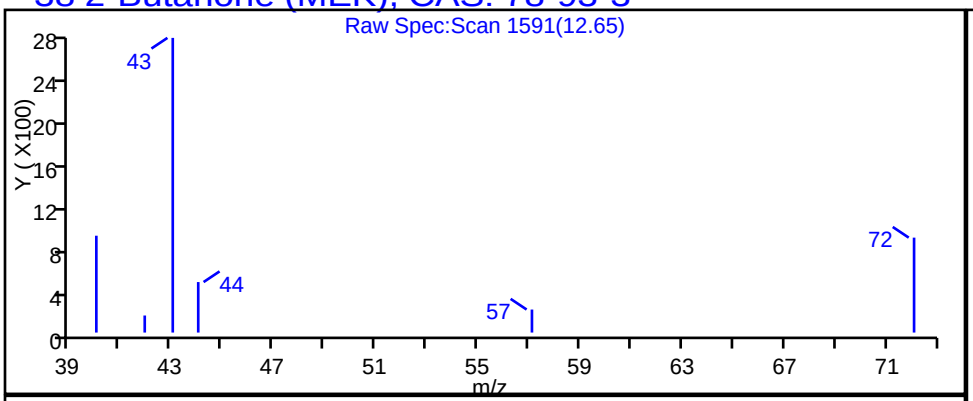
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

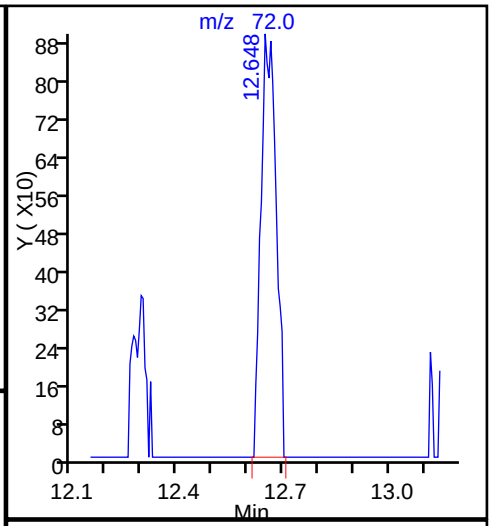
TestAmerica Burlington

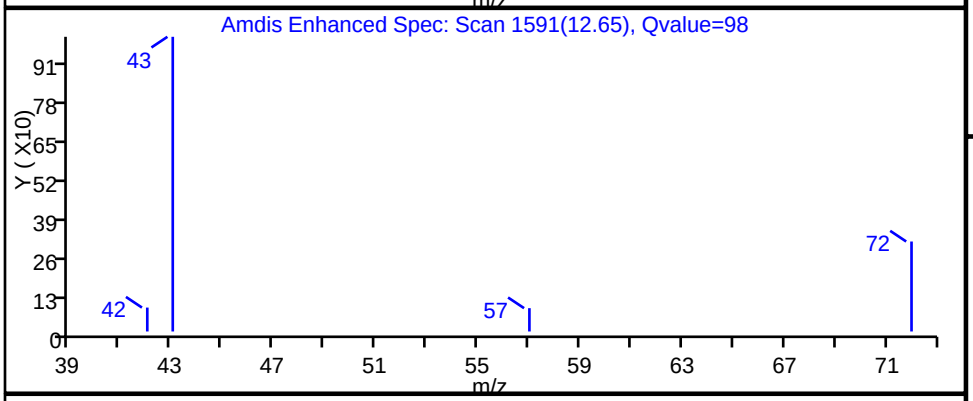
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

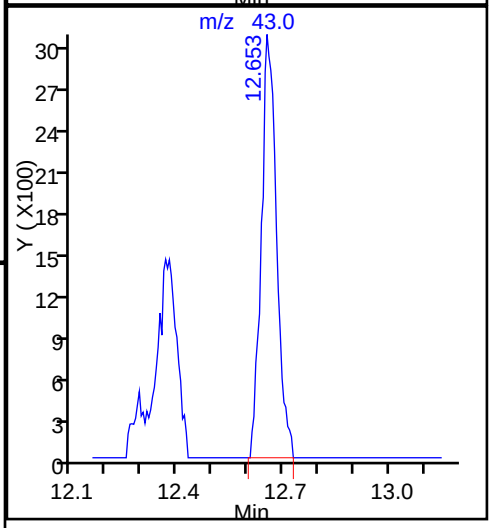
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

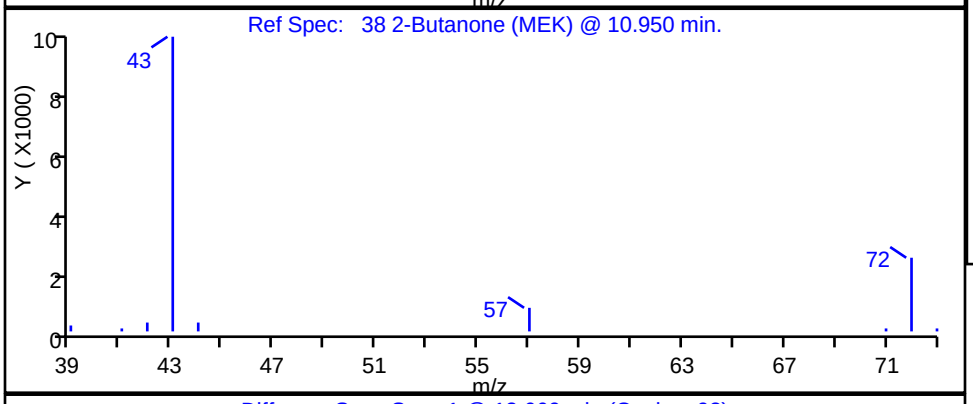
38 2-Butanone (MEK), CAS: 78-93-3

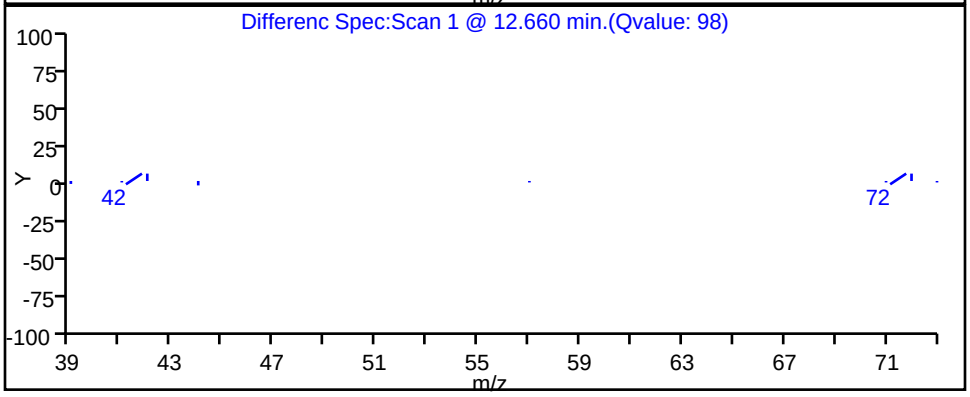












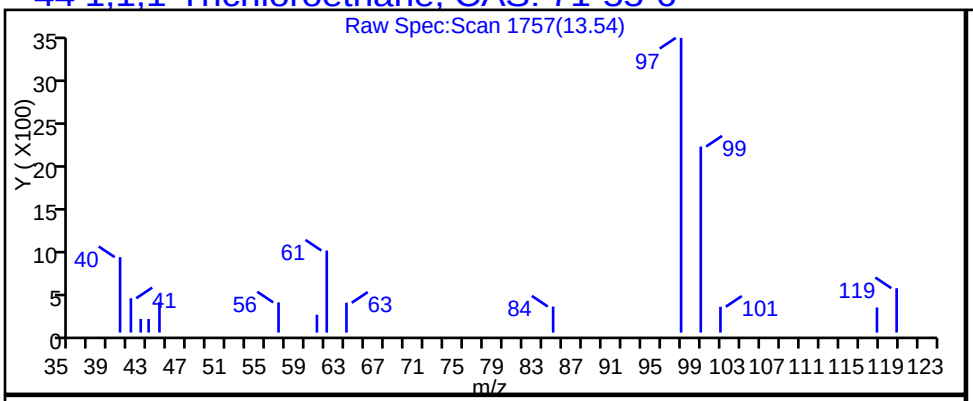
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

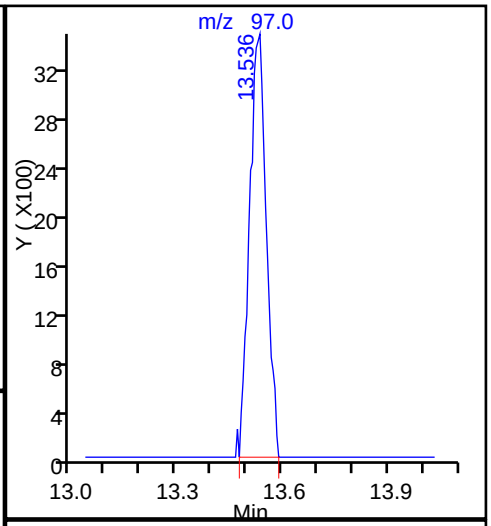
TestAmerica Burlington

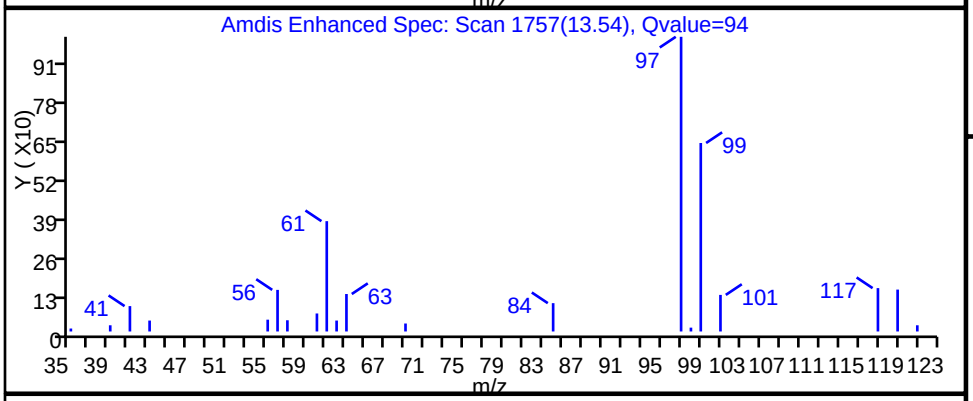
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

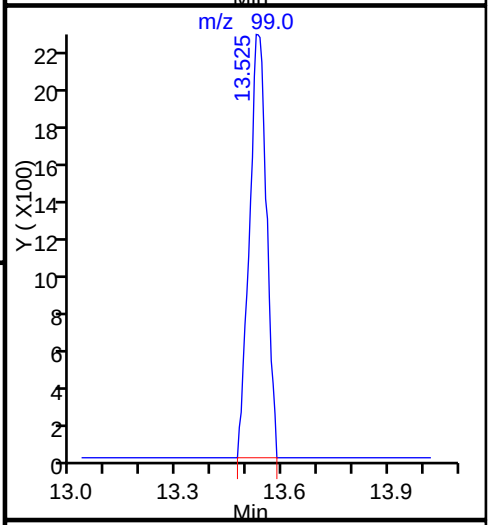
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

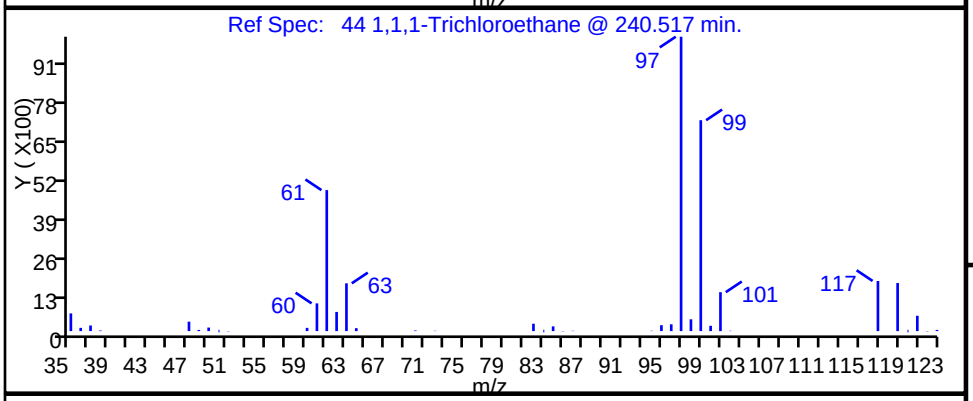
44 1,1,1-Trichloroethane, CAS: 71-55-6

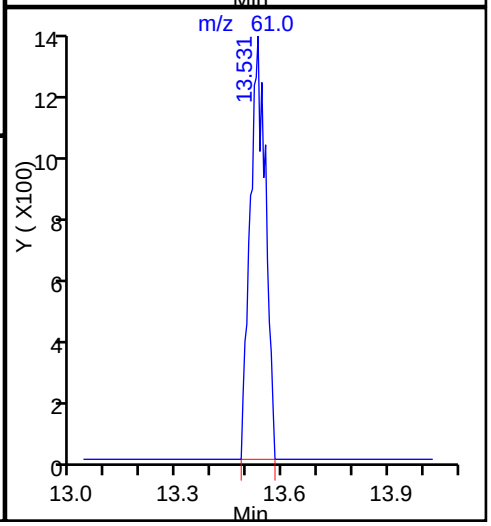


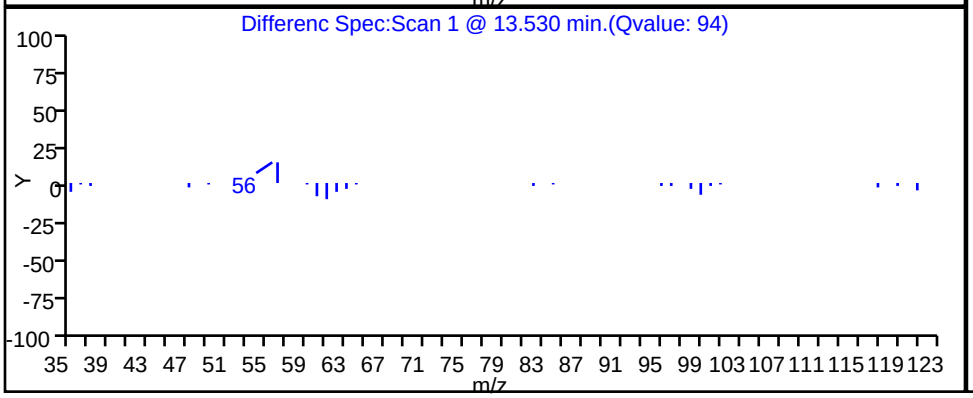










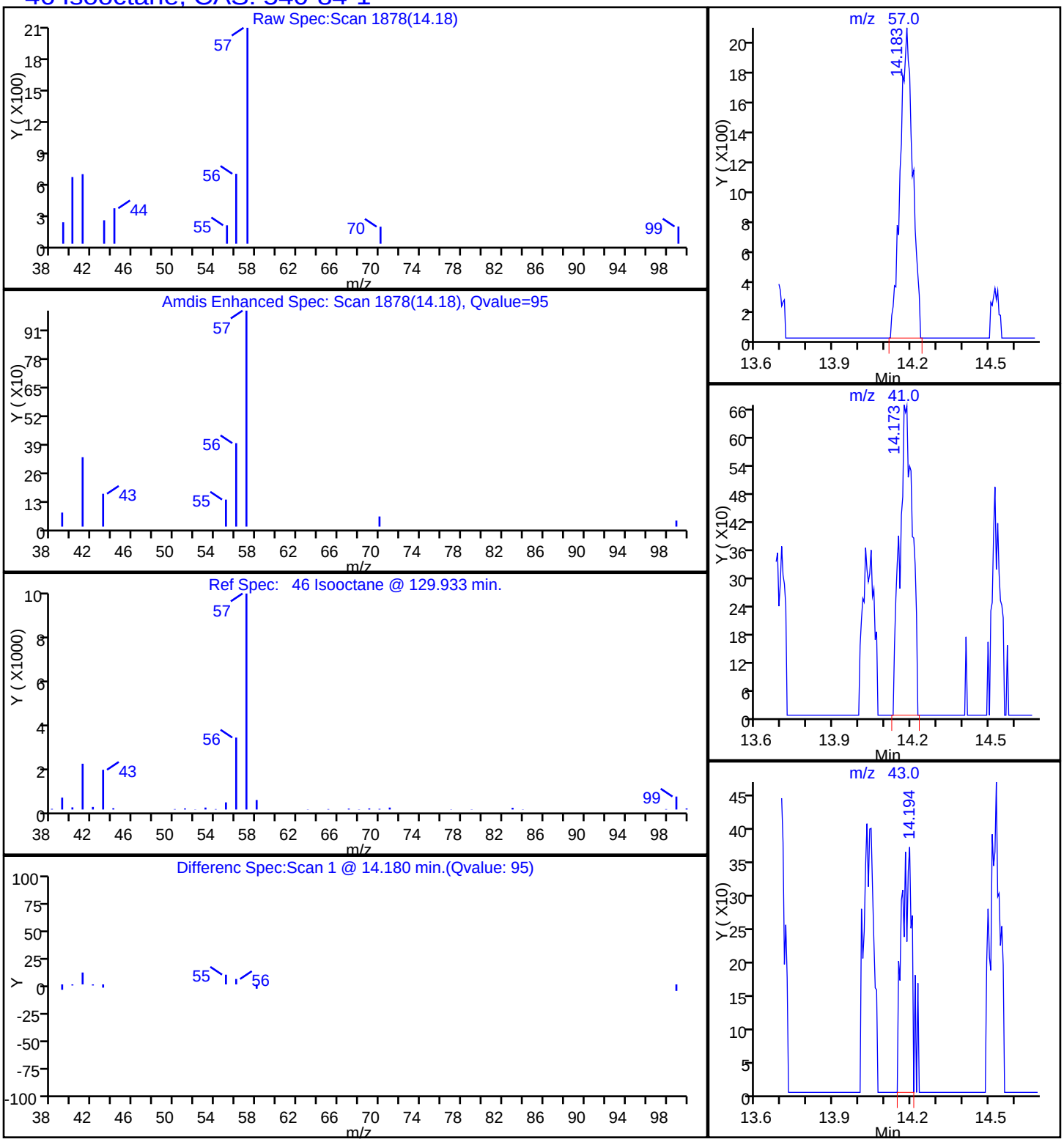


Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d				
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1



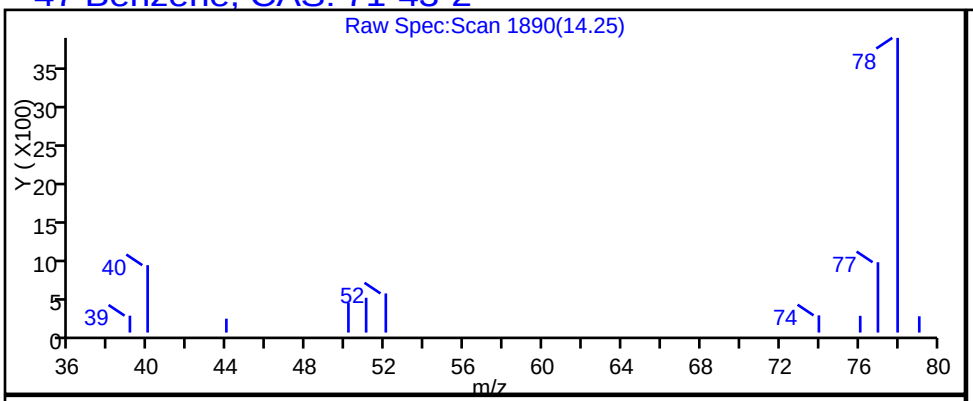
Report Date: 30-Sep-2015 14:18:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

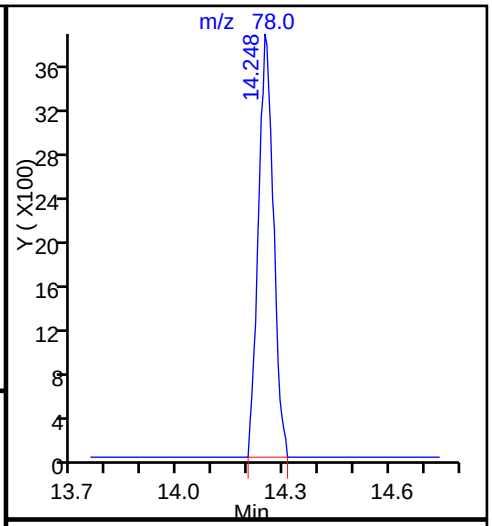
TestAmerica Burlington

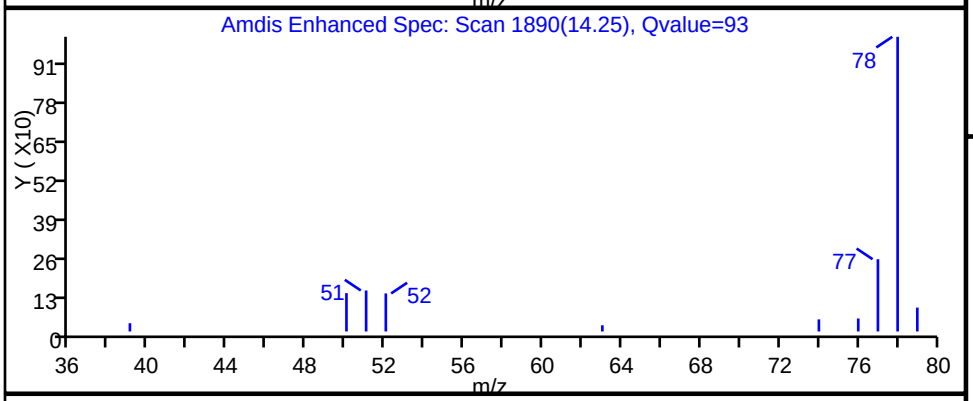
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

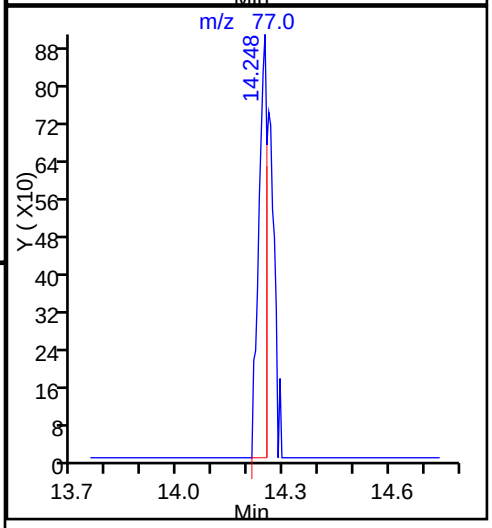
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

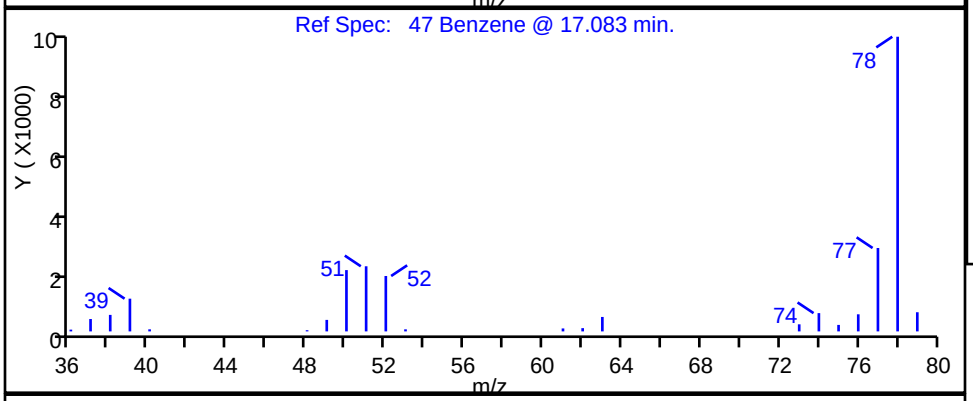
47 Benzene, CAS: 71-43-2

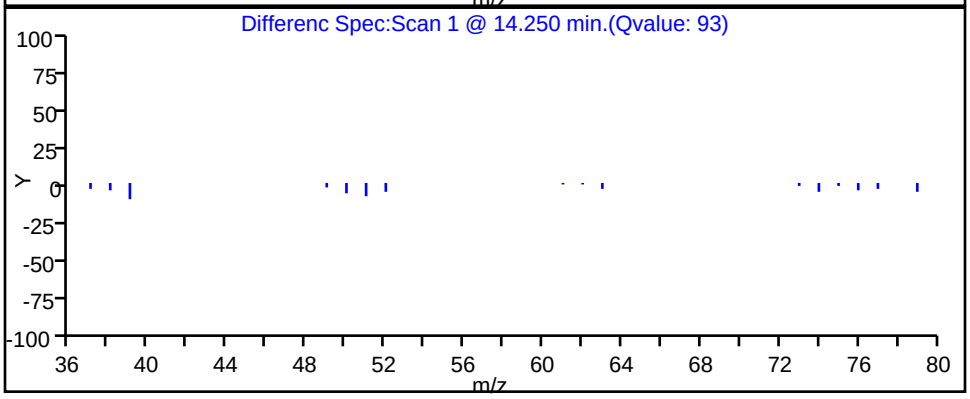












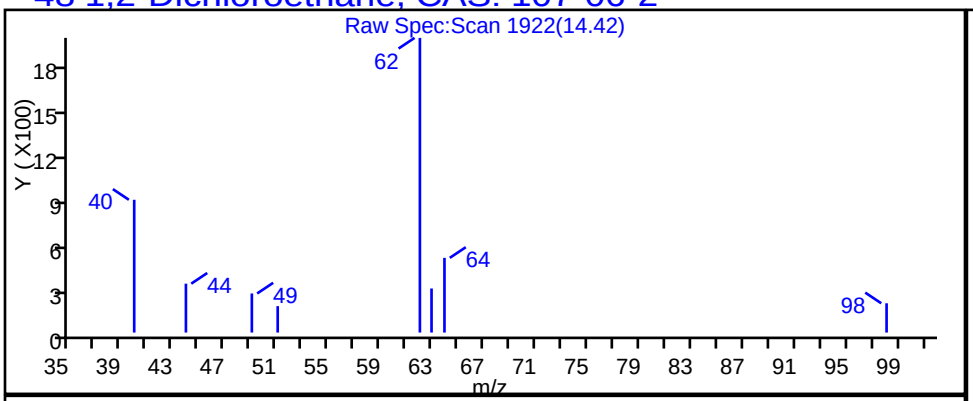
Report Date: 30-Sep-2015 14:18:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

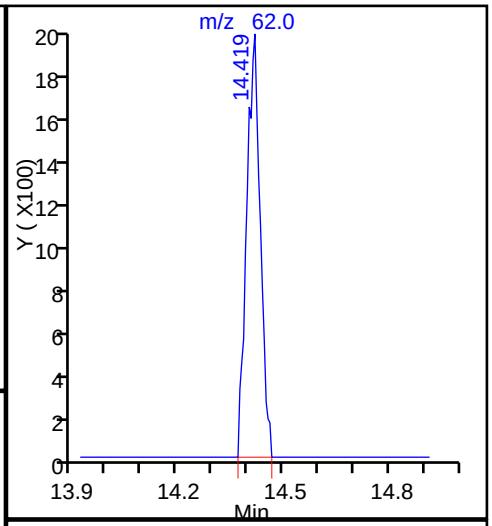
TestAmerica Burlington

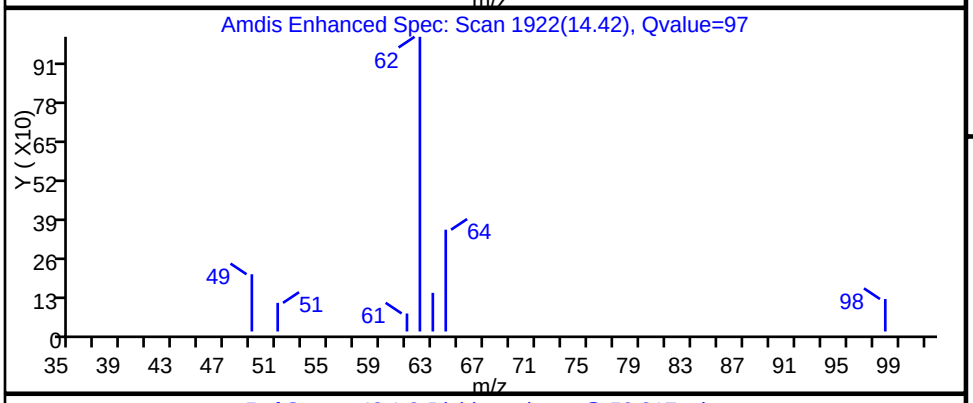
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

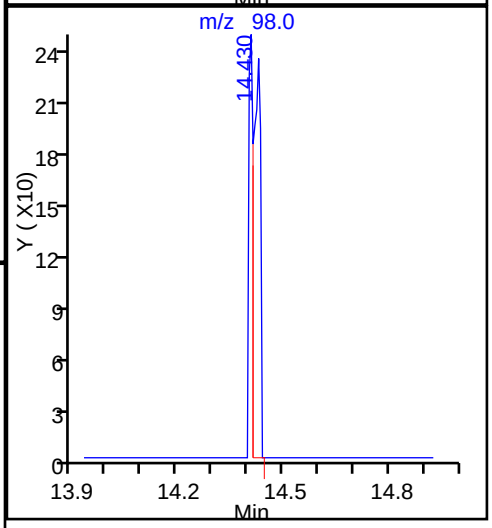
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

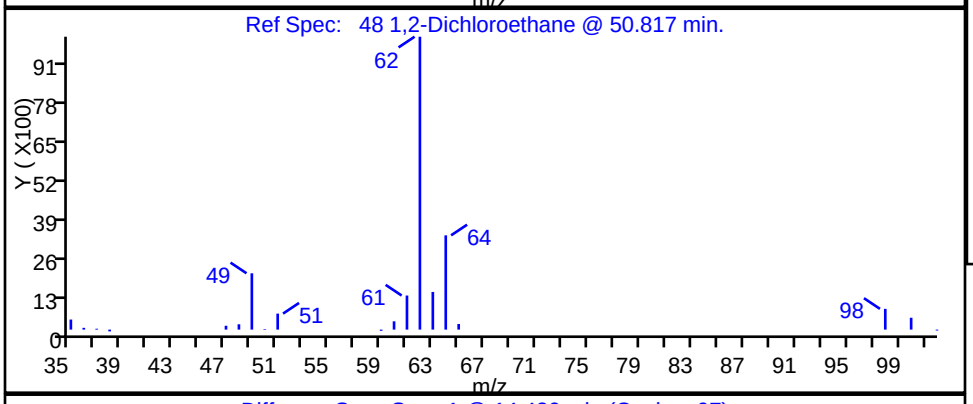
48 1,2-Dichloroethane, CAS: 107-06-2

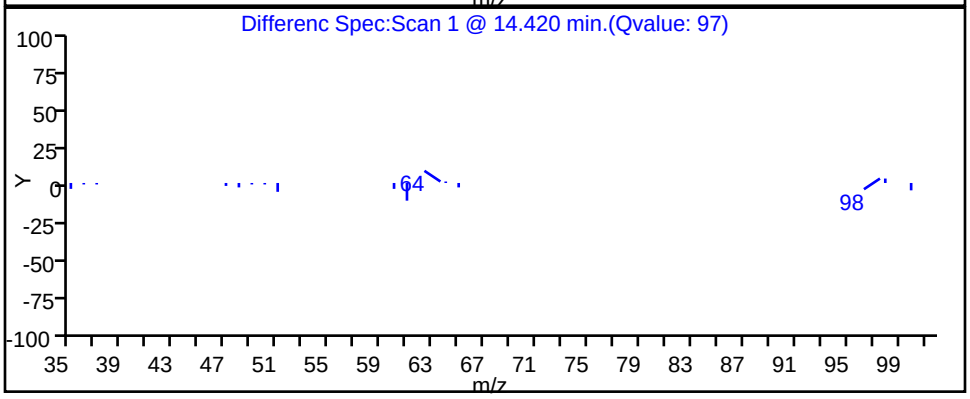












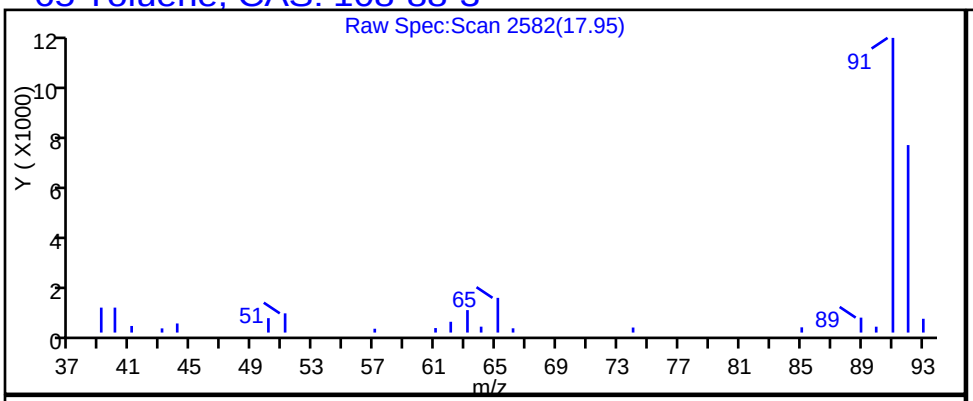
Report Date: 30-Sep-2015 14:18:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

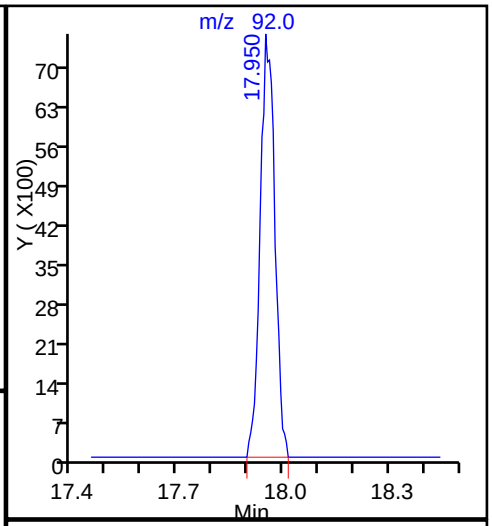
TestAmerica Burlington

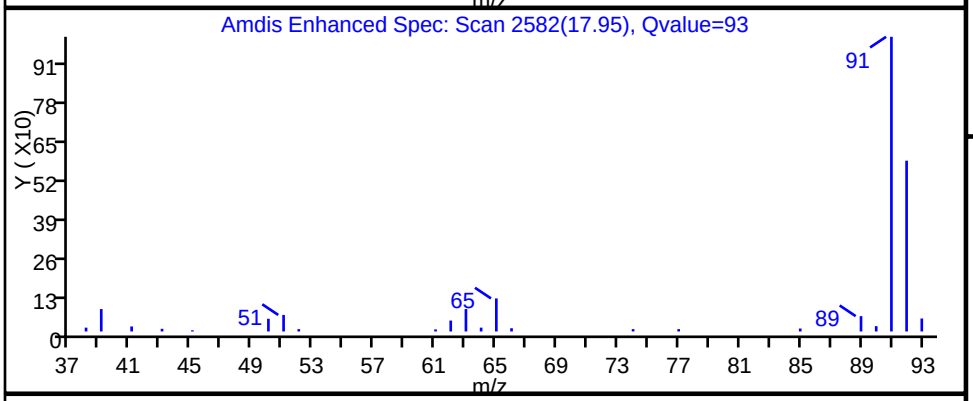
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

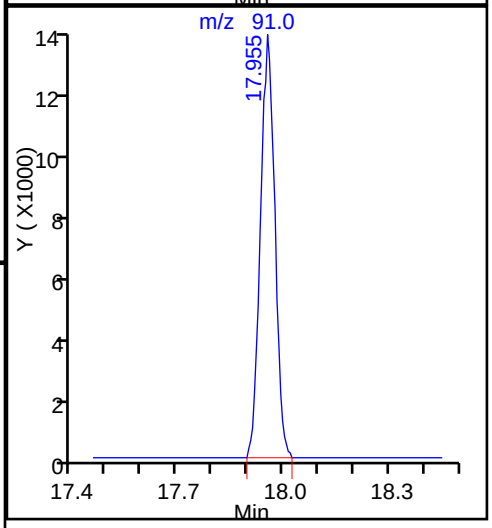
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

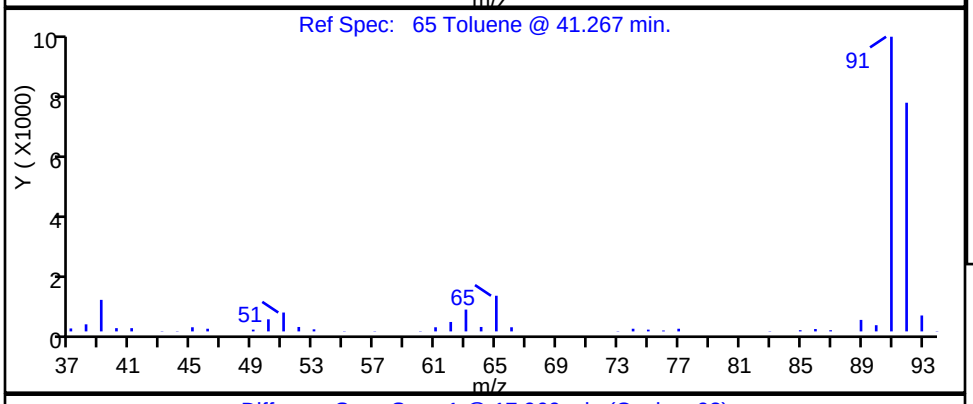
65 Toluene, CAS: 108-88-3

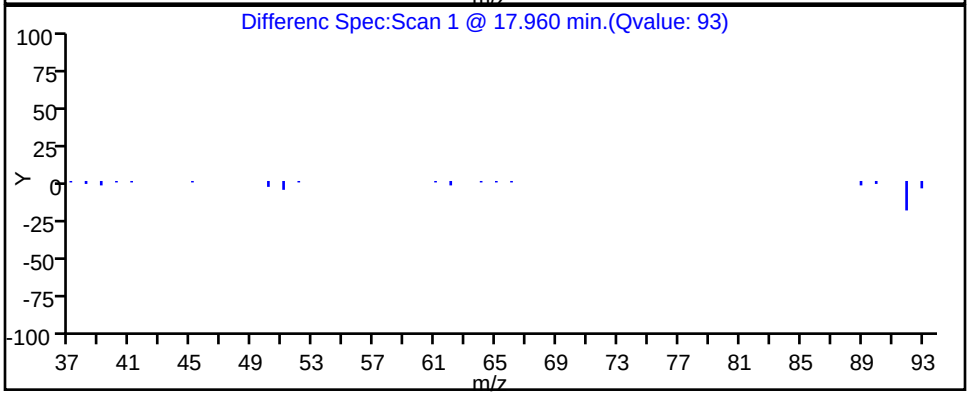












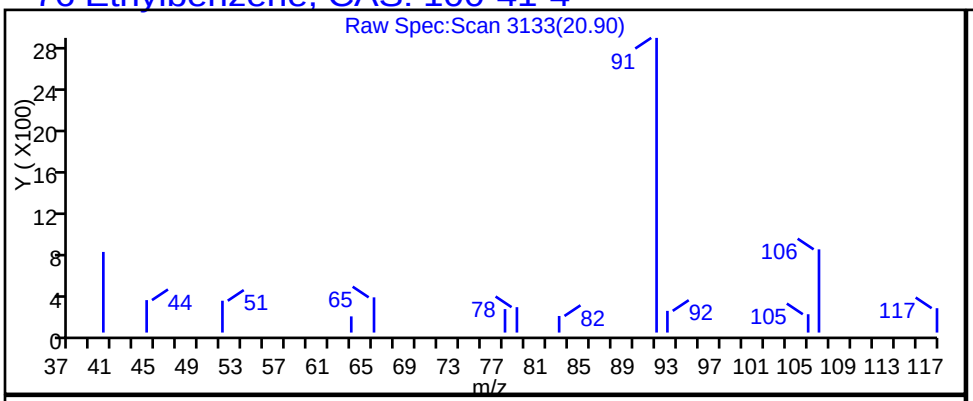
Report Date: 30-Sep-2015 14:18:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

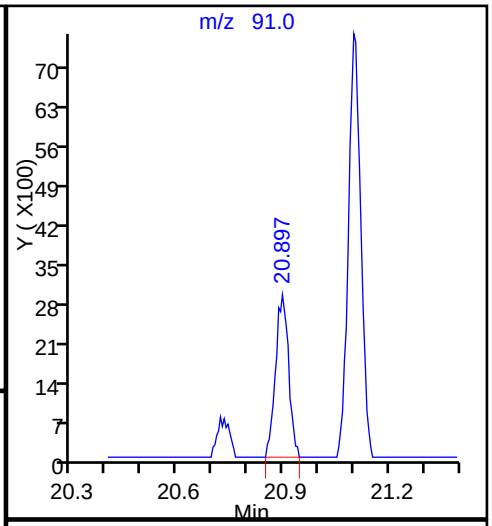
TestAmerica Burlington

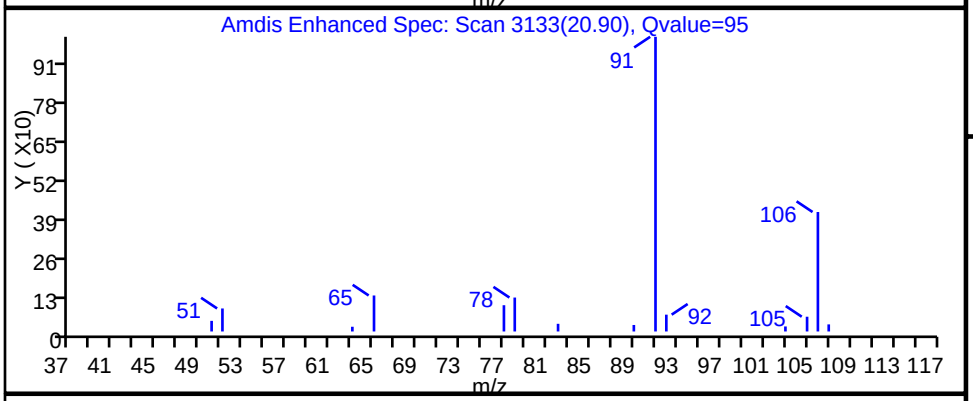
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

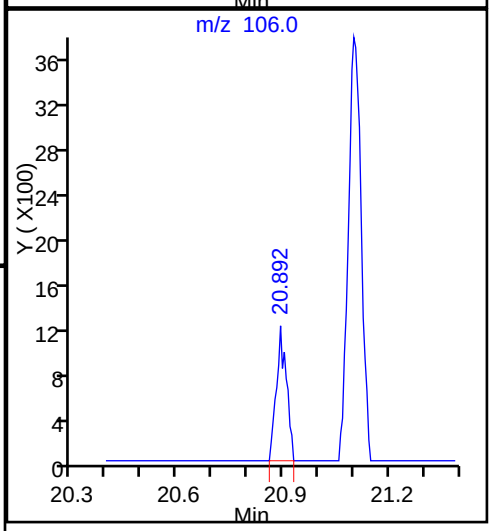
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

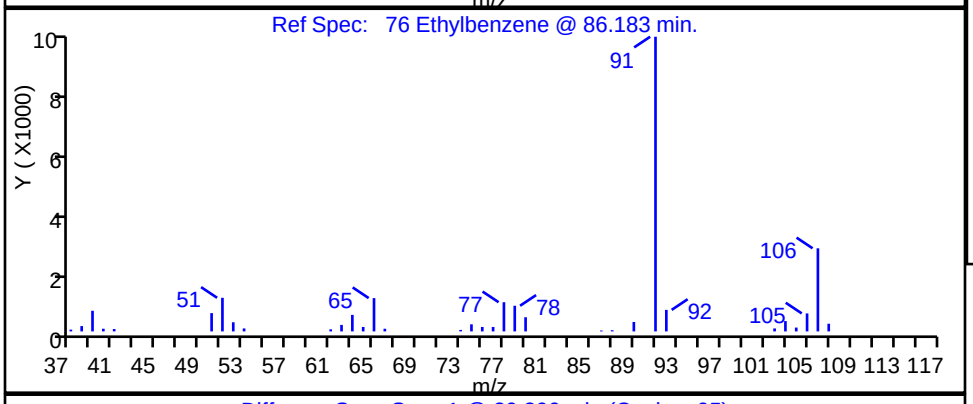
76 Ethylbenzene, CAS: 100-41-4

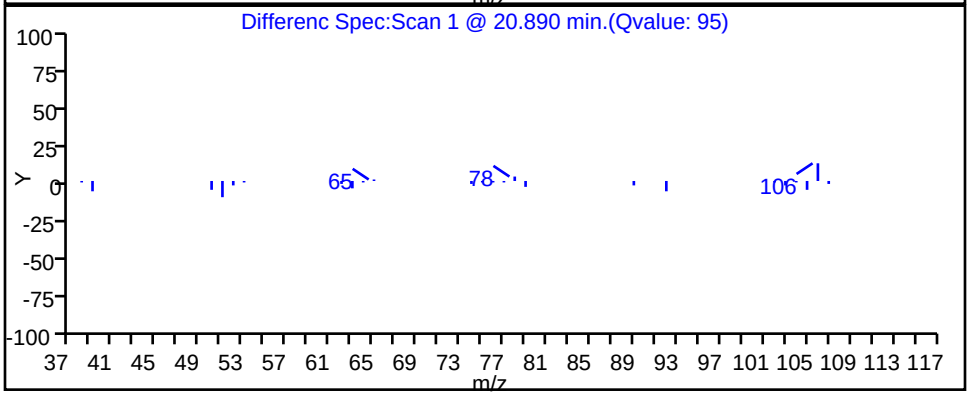










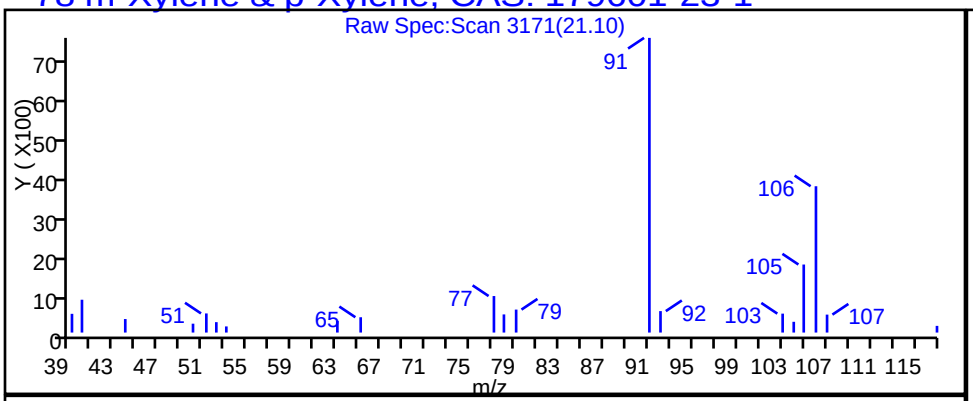


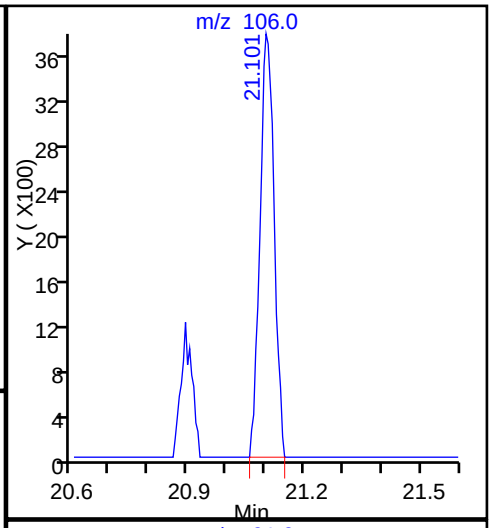
Report Date: 30-Sep-2015 14:18:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

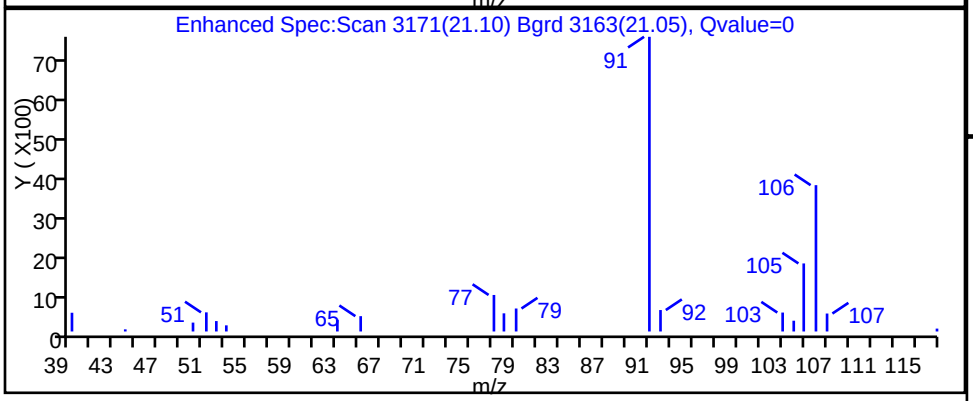
TestAmerica Burlington

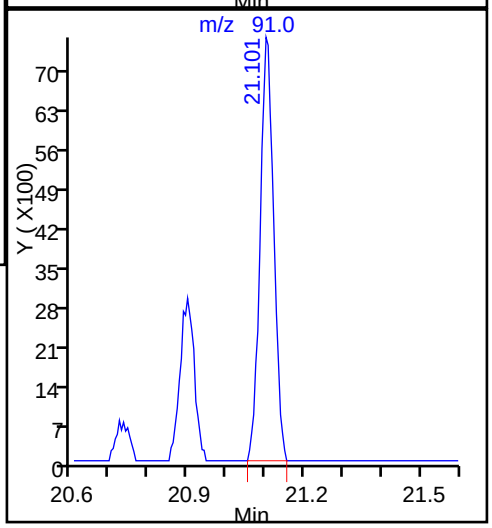
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d				
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









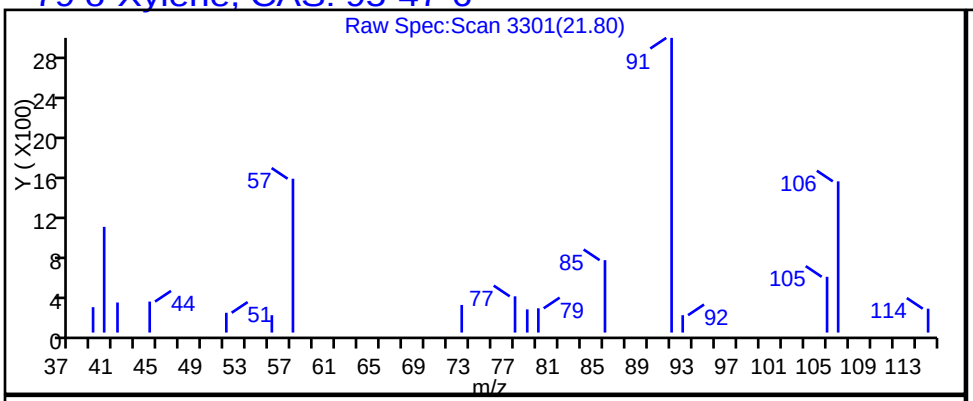
Report Date: 30-Sep-2015 14:18:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

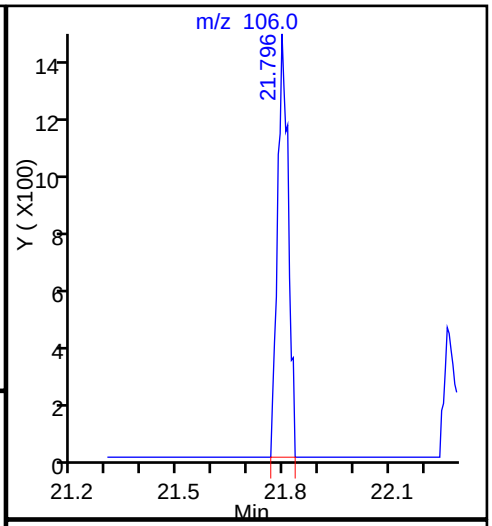
TestAmerica Burlington

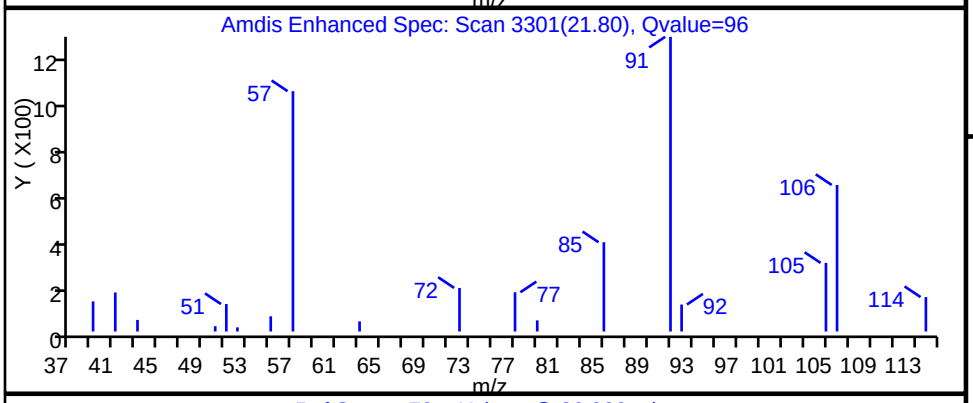
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d

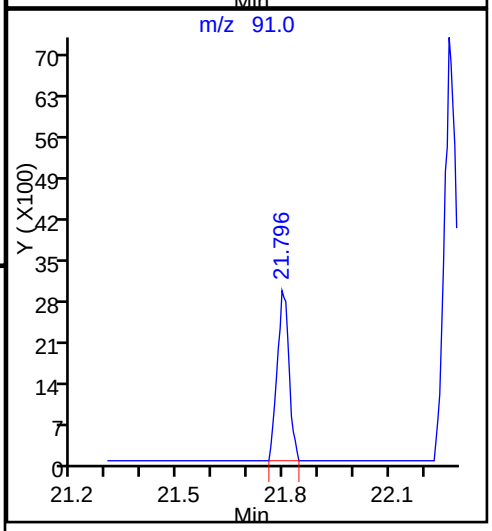
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

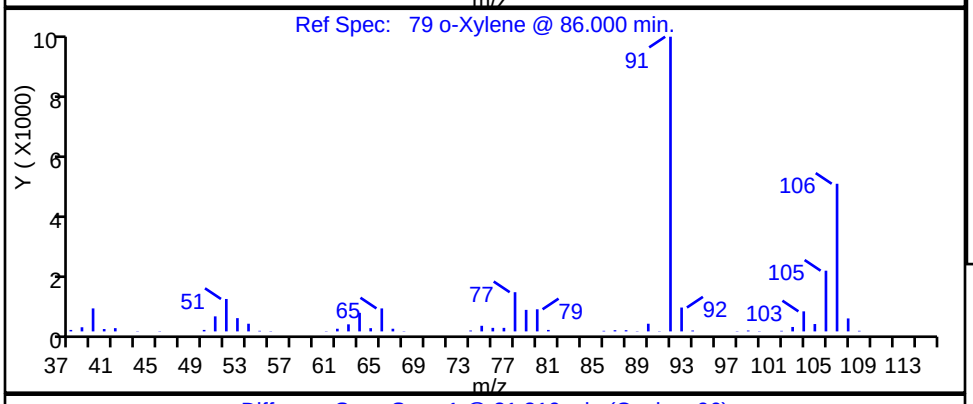
79 o-Xylene, CAS: 95-47-6

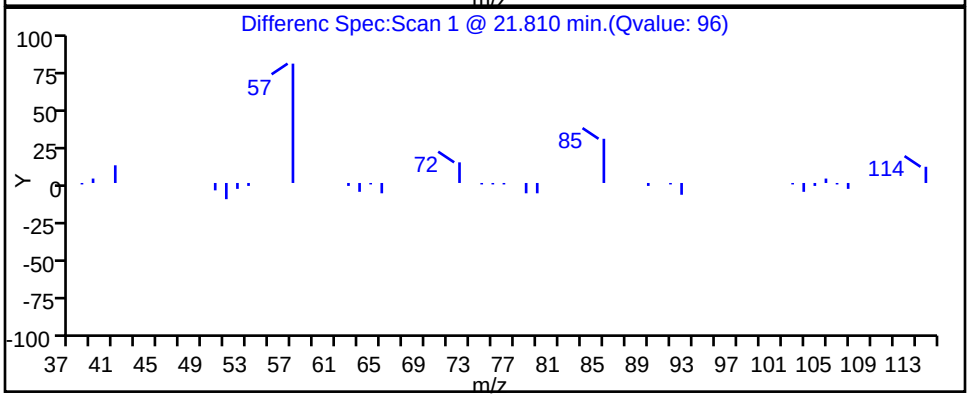










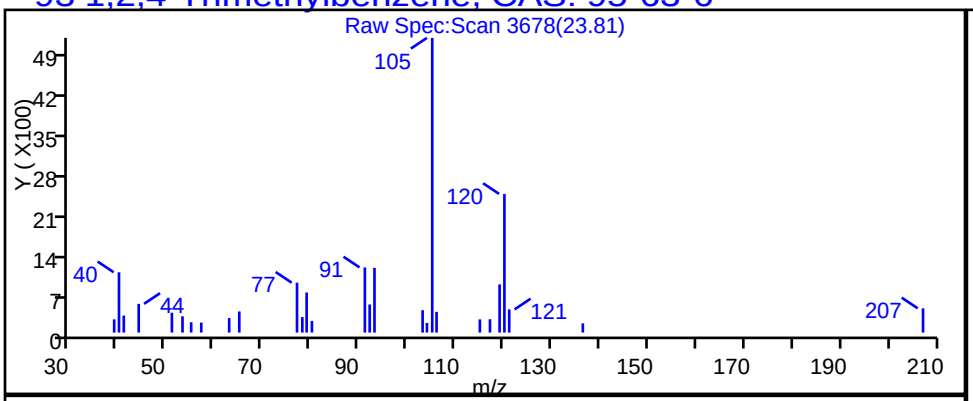


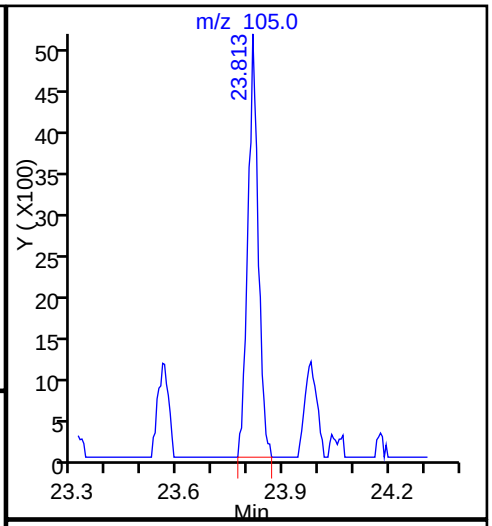
Report Date: 30-Sep-2015 14:18:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

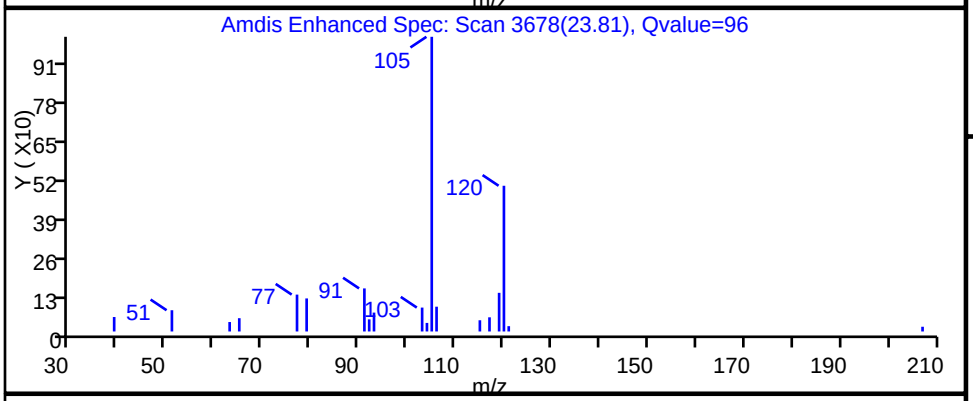
TestAmerica Burlington

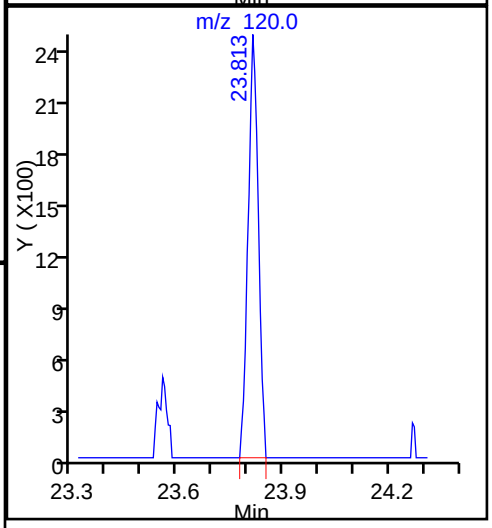
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d				
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

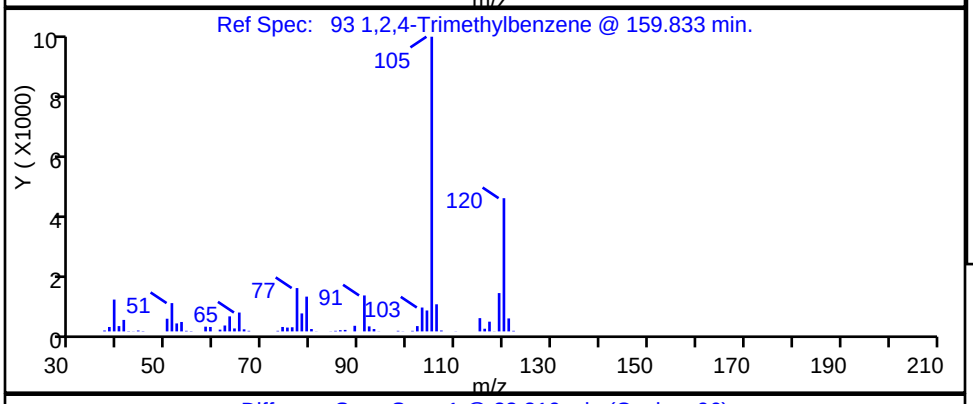
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

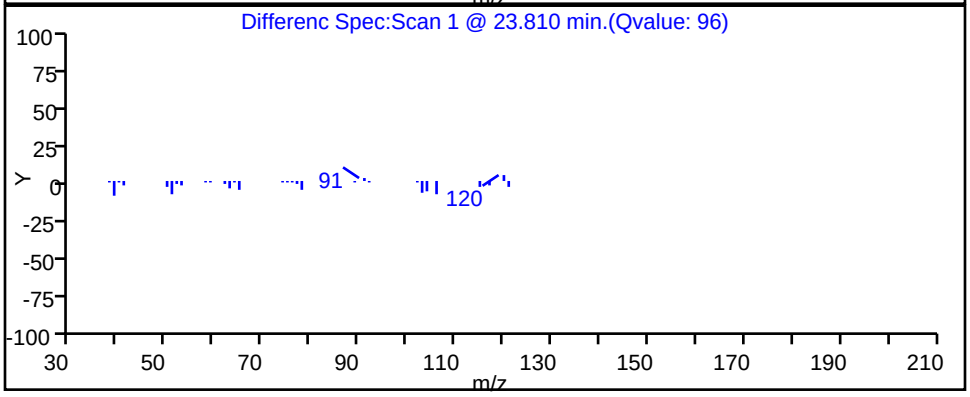












Manual Integration/User Assign Peak Report

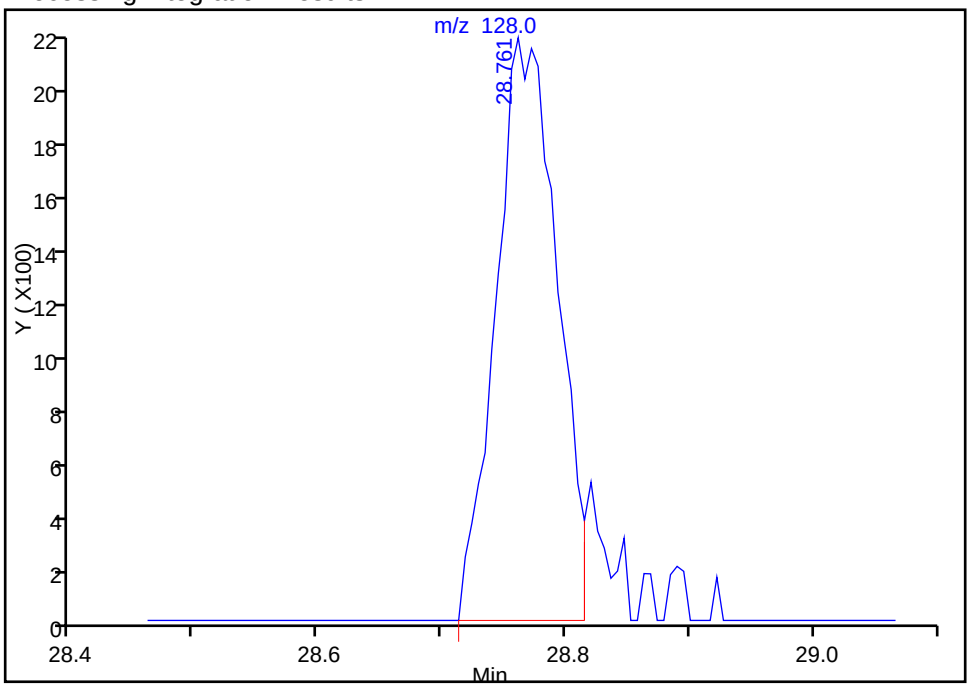
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_026.d				
Injection Date:	30-Sep-2015 08:03:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-10	Lab Sample ID:	200-29972-10		
Client ID:	FR-IA05-092315				
Operator ID:	pad	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

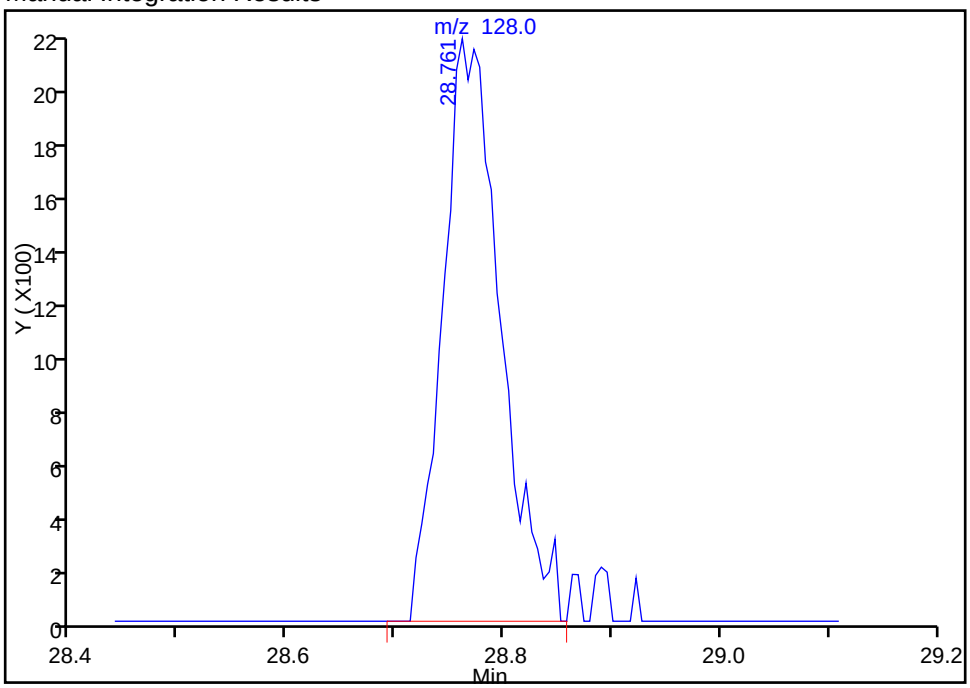
Processing Integration Results

RT: 28.76
Area: 7249
Amount: 0.043221
Amount Units: ppb v/v



Manual Integration Results

RT: 28.76
Area: 7798
Amount: 0.046494
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:02:48
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS06-092315 | Lab Sample ID: 200-29972-11

Matrix: Air | Lab File ID: 16087_21.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) | Date Analyzed: 10/06/2015 01:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.60		0.50	0.080
75-45-6	Freon 22	86.47	0.19	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.093
106-97-8	n-Butane	58.12	0.19	J	0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	21		0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	7.2		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.29	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.18	J	0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	1.5		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	2.2	J	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	14		0.20	0.046
110-82-7	Cyclohexane	84.16	0.27		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.086		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.090	J	0.20	0.039
71-43-2	Benzene	78.11	0.23		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS06-092315 Lab Sample ID: 200-29972-11

Matrix: Air Lab File ID: 16087_21.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.040
79-01-6	Trichloroethene	131.39	0.14		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.62		0.50	0.050
108-88-3	Toluene	92.14	0.70		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.90		0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.073	J	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.094	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.31	J	0.50	0.071
95-47-6	Xylene, o-	106.17	0.13	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.44	J	0.70	0.037
100-42-5	Styrene	104.15	0.12	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.062	J	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS06-092315 Lab Sample ID: 200-29972-11

Matrix: Air Lab File ID: 16087_21.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.21	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS06-092315 | Lab Sample ID: 200-29972-11

Matrix: Air | Lab File ID: 16087_21.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) | Date Analyzed: 10/06/2015 01:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.0		2.5	0.40
75-45-6	Freon 22	86.47	0.67	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.19
106-97-8	n-Butane	58.12	0.46	J	1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	120		1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	17		12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	0.91	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	0.63	J	0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	4.3		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	6.4	J	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	74		1.1	0.25
110-82-7	Cyclohexane	84.16	0.94		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.54		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.42	J	0.93	0.18
71-43-2	Benzene	78.11	0.74		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS06-092315 Lab Sample ID: 200-29972-11

Matrix: Air Lab File ID: 16087_21.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.16
79-01-6	Trichloroethene	131.39	0.77		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.6		2.0	0.20
108-88-3	Toluene	92.14	2.6		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	6.1		1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.30	J	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.41	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	1.4	J	2.2	0.31
95-47-6	Xylene, o-	106.17	0.57	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	1.9	J	3.0	0.16
100-42-5	Styrene	104.15	0.51	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.30	J	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS06-092315 Lab Sample ID: 200-29972-11

Matrix: Air Lab File ID: 16087_21.D

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) Date Analyzed: 10/06/2015 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	1.1	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D
Lims ID: 200-29972-A-11 Lab Sample ID: 200-29972-11
Client ID: FR-SS06-092315
Sample Type: Client
Inject. Date: 06-Oct-2015 01:05:30 ALS Bottle#: 2 Worklist Smp#: 21
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-021
Misc. Info.: 29972-11
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 10:36:57 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 10:36:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.161	3.172	-0.011	98	16586	0.6034	
3 Chlorodifluoromethane	51	3.215	3.226	-0.011	96	2507	0.1886	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50		3.579				ND	
6 Butane	43	3.761	3.771	-0.010	88	2438	0.1919	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.253	5.259	-0.006	98	636774	21.0	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43	6.617	6.612	0.005	88	88998	7.20	
22 Carbon disulfide	76	6.746	6.746	0.000	98	8405	0.2916	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.420	7.409	0.006	49	1384	0.1329	M
28 2-Methyl-2-propanol	59	7.826	7.709	0.117	96	3744	0.1993	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.206	8.212	-0.006	86	2764	0.1787	
33 1,1-Dichloroethane	63		8.709				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72	9.934	9.881	0.053	97	9632	1.47	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	73	141307	10.0	
39 Tetrahydrofuran	42	10.384	10.298	0.086	86	24250	2.18	
41 Chloroform	83		10.410				ND	
42 Cyclohexane	84	10.683	10.656	0.032	32	5339	0.2731	M
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	96	387002	13.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
44 Carbon tetrachloride	117	10.924	10.929	-0.005	75	2543	0.0857	
45 Isooctane	57	11.368	11.368	0.000	95	5900	0.0903	
46 Benzene	78	11.411	11.411	0.000	94	10511	0.2305	
47 1,2-Dichloroethane	62		11.609				ND	
48 n-Heptane	43		11.753				ND	
* 50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	91	781077	10.0	
52 Trichloroethene	95	12.743	12.743	0.000	90	3313	0.1442	M
53 1,2-Dichloropropane	63		13.331				ND	
54 Methyl methacrylate	69		13.497				ND	
55 1,4-Dioxane	88		13.572				ND	
57 Dichlorobromomethane	83		13.904				ND	
58 cis-1,3-Dichloropropene	75		14.872				ND	
61 4-Methyl-2-pentanone (MIBK	43	15.246	15.193	0.053	91	18629	0.6249	
62 Toluene	92	15.466	15.476	-0.010	93	27855	0.6987	
67 trans-1,3-Dichloropropene	75		16.092				ND	
68 1,1,2-Trichloroethane	83		16.482				ND	
69 Tetrachloroethene	166	16.578	16.579	-0.001	94	35923	0.9049	
70 2-Hexanone	43	16.990	16.996	0.037	79	2156	0.0728	M
71 Chlorodibromomethane	129		17.263				ND	
72 Ethylene Dibromide	107		17.547				ND	
* 73 Chlorobenzene-d5	117	18.446	18.446	0.000	81	782887	10.0	
74 Chlorobenzene	112		18.510				ND	
75 Ethylbenzene	91	18.649	18.649	0.000	95	8051	0.0937	
77 m-Xylene & p-Xylene	106	18.900	18.906	-0.006	97	11402	0.3146	
78 o-Xylene	106	19.724	19.719	0.005	95	4692	0.1310	
79 Styrene	104	19.767	19.767	0.000	95	6651	0.1190	
S 80 Xylenes, Total	106				0		0.4456	
81 Bromoform	173		20.179				ND	
82 Isopropylbenzene	105	20.355	20.355	0.000	87	1354	0.0133	
85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
86 N-Propylbenzene	91	21.040	21.035	0.005	96	1906	0.0160	
89 4-Ethyltoluene	105	21.217	21.217	0.000	95	2153	0.0209	
90 2-Chlorotoluene	91		21.238				ND	
91 1,3,5-Trimethylbenzene	105	21.318	21.318	0.000	78	1680	0.0197	
93 tert-Butylbenzene	119		21.789				ND	
94 1,2,4-Trimethylbenzene	105	21.880	21.880	0.000	93	5255	0.0615	
95 sec-Butylbenzene	105		22.105				ND	
96 4-Isopropyltoluene	119	22.297	22.297	0.000	94	1576	0.0144	
97 1,3-Dichlorobenzene	146		22.346				ND	
98 1,4-Dichlorobenzene	146		22.485				ND	
99 Benzyl chloride	91		22.688				ND	
101 n-Butylbenzene	91		22.886				ND	
102 1,2-Dichlorobenzene	146	23.041	23.041	0.000	64	509	0.008172	
104 1,2,4-Trichlorobenzene	180	25.668	25.673	-0.005	69	693	0.0121	
105 Hexachlorobutadiene	225		25.855				ND	
106 Naphthalene	128	26.197	26.197	0.000	99	22613	0.2054	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

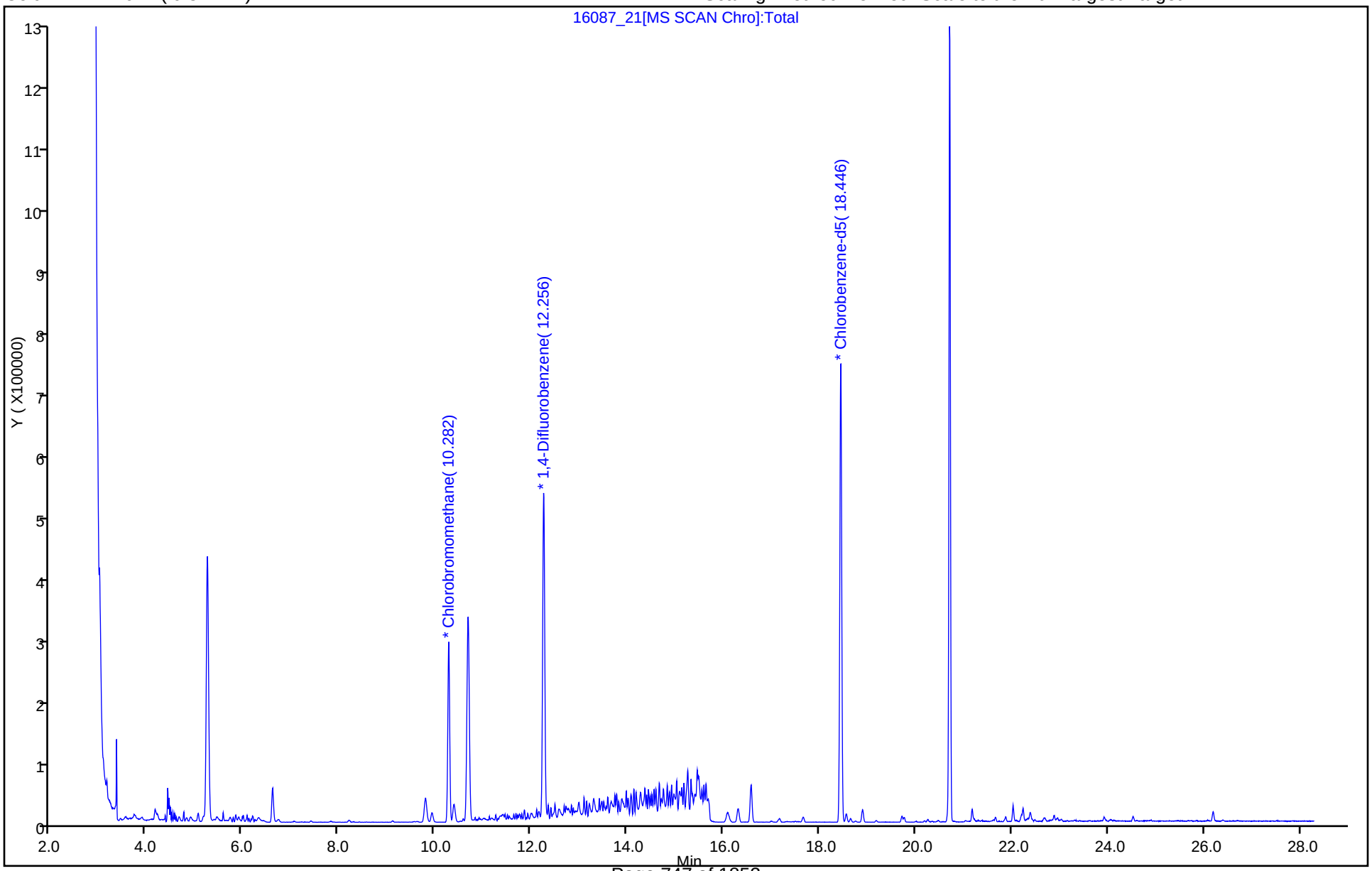
Report Date: 06-Oct-2015 10:36:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11	Worklist Smp#:	21
Client ID:	FR-SS06-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



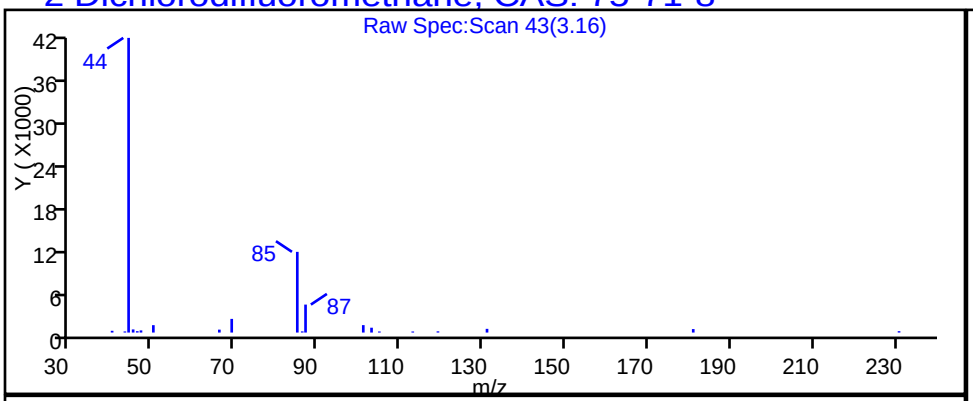
Report Date: 06-Oct-2015 10:36:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

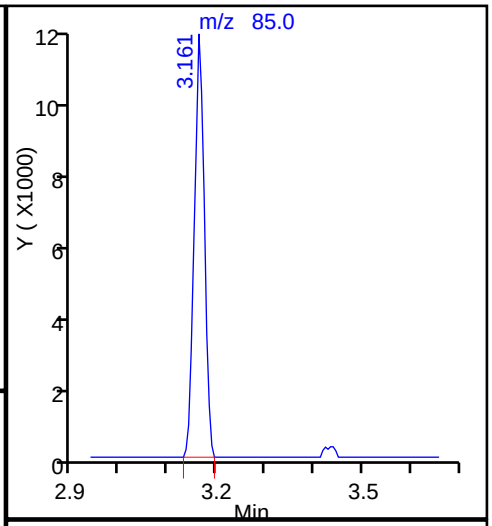
TestAmerica Burlington

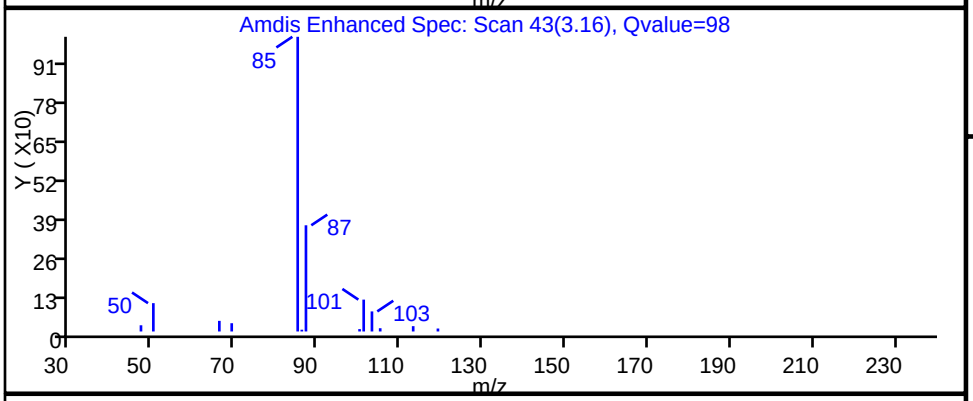
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

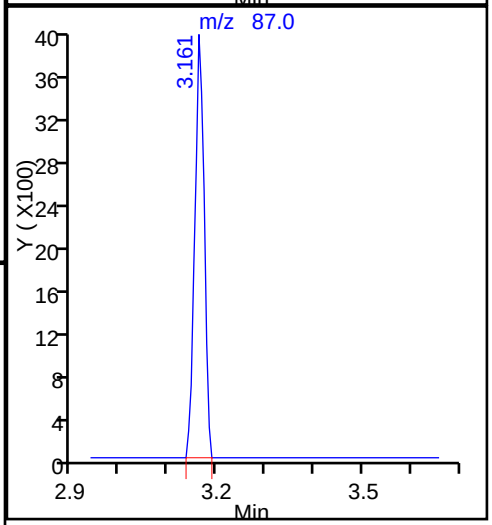
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

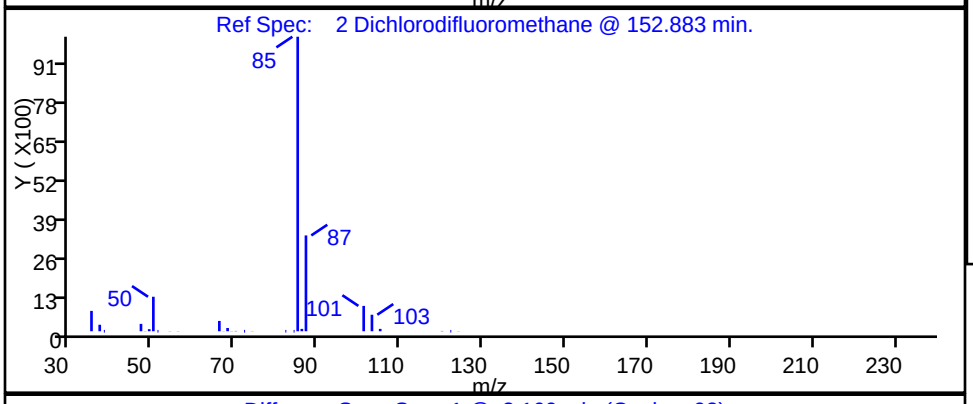
2 Dichlorodifluoromethane, CAS: 75-71-8

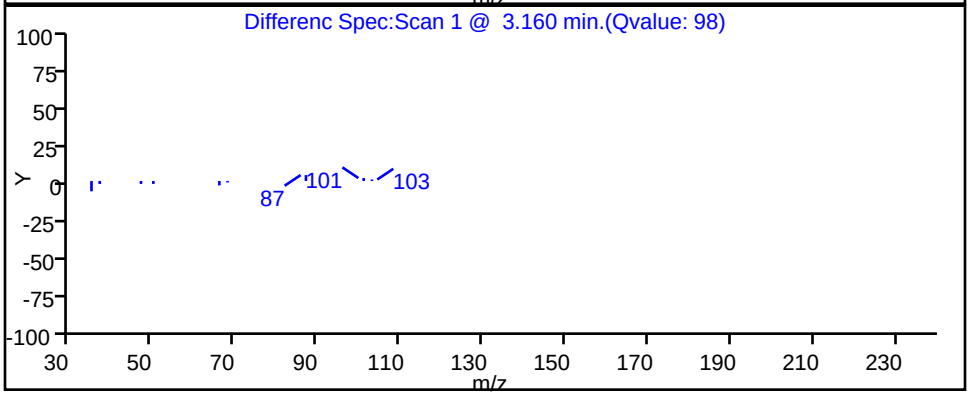












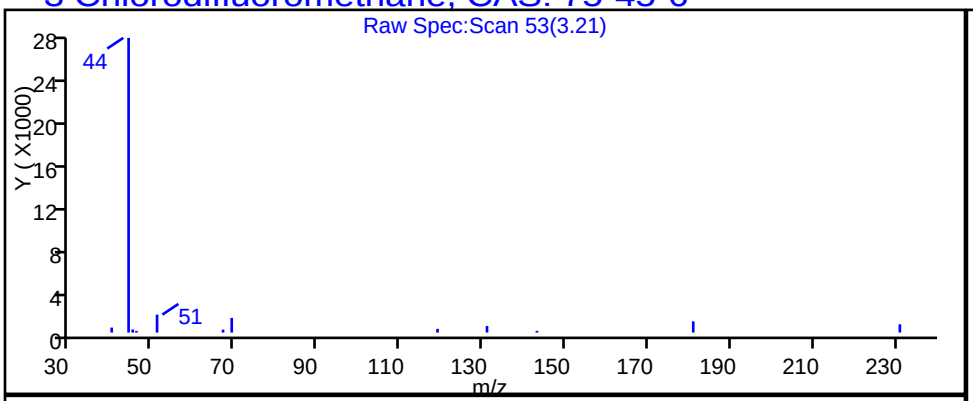
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

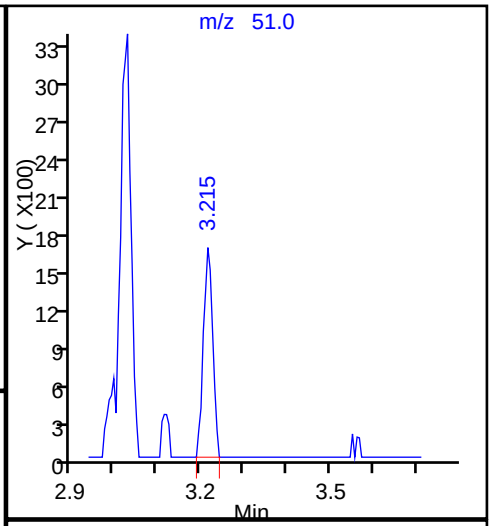
TestAmerica Burlington

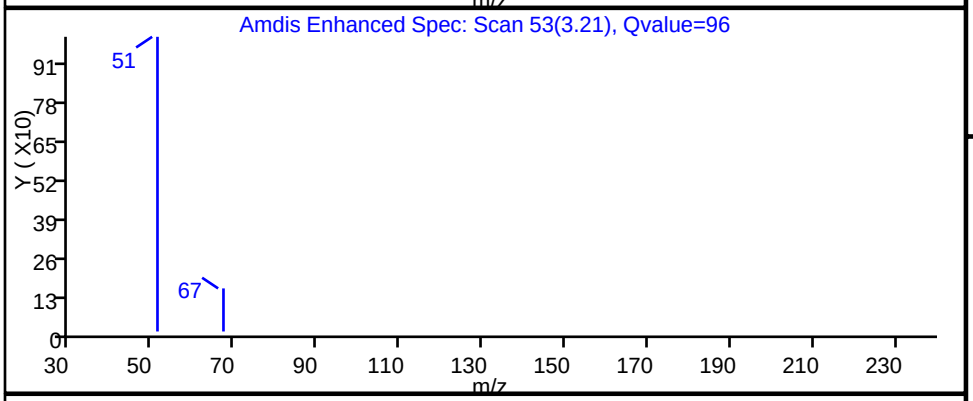
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

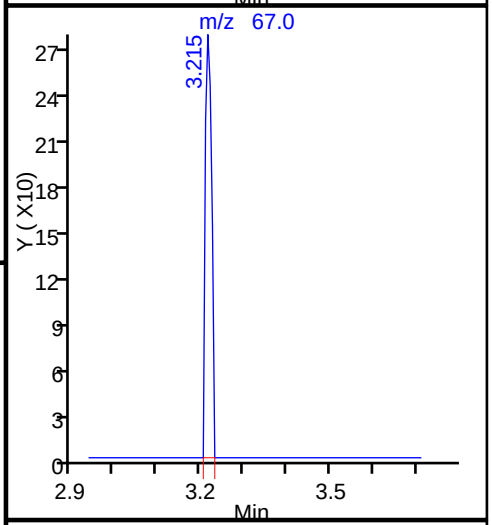
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

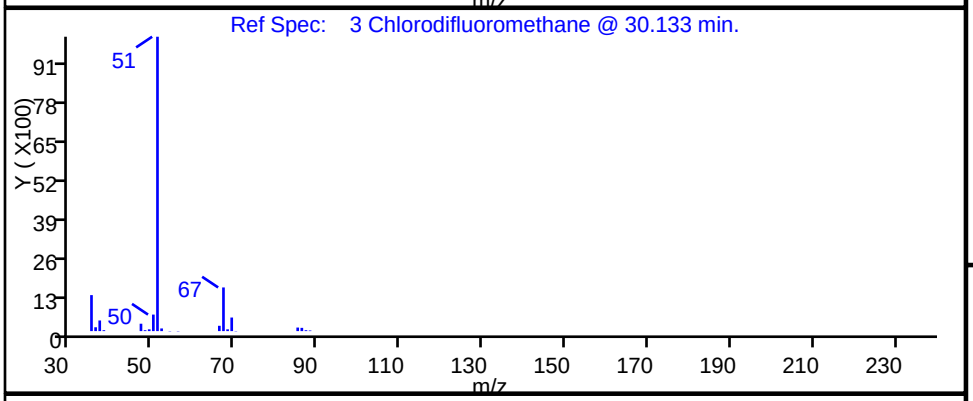
3 Chlorodifluoromethane, CAS: 75-45-6

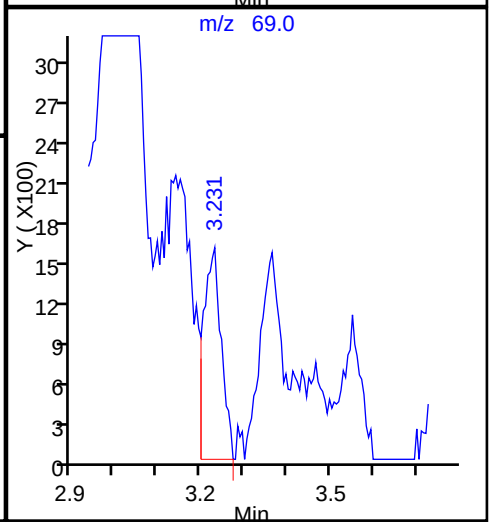


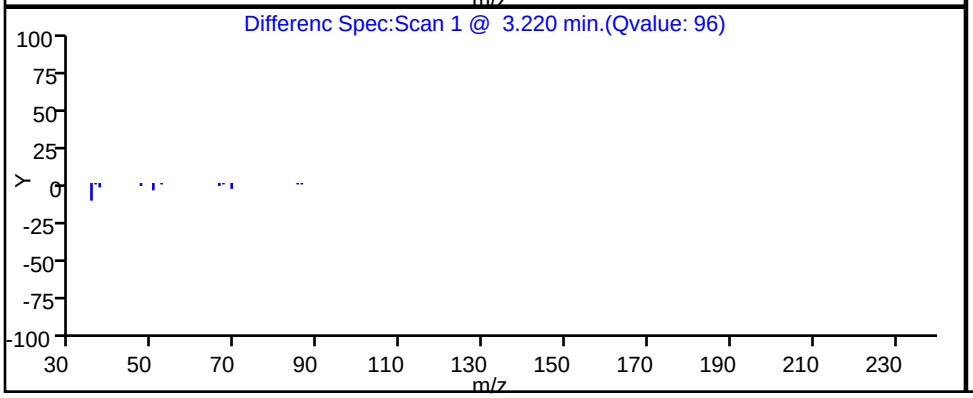












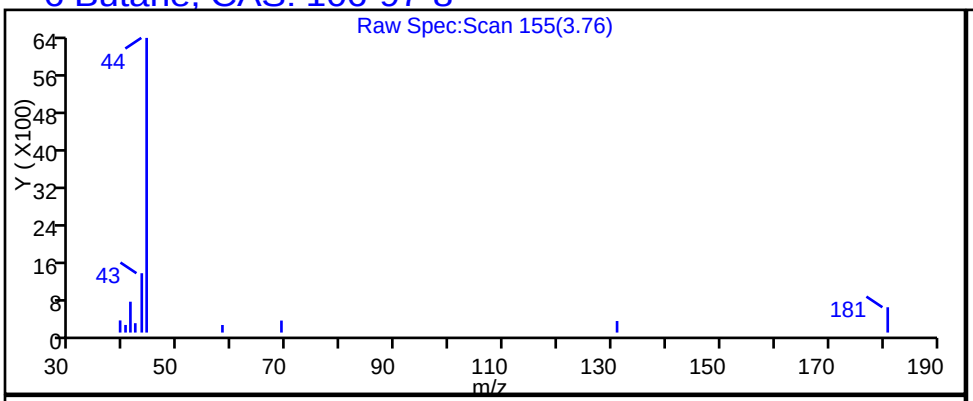
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

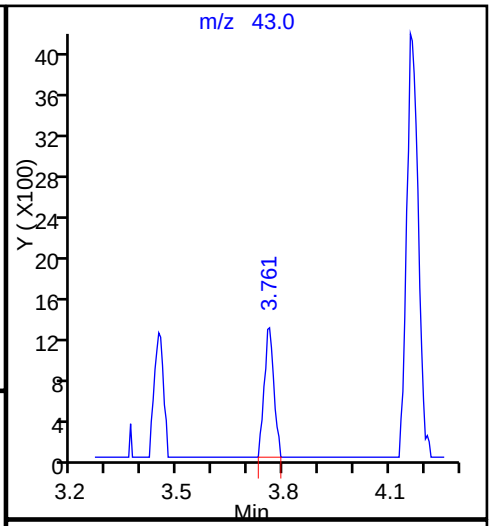
TestAmerica Burlington

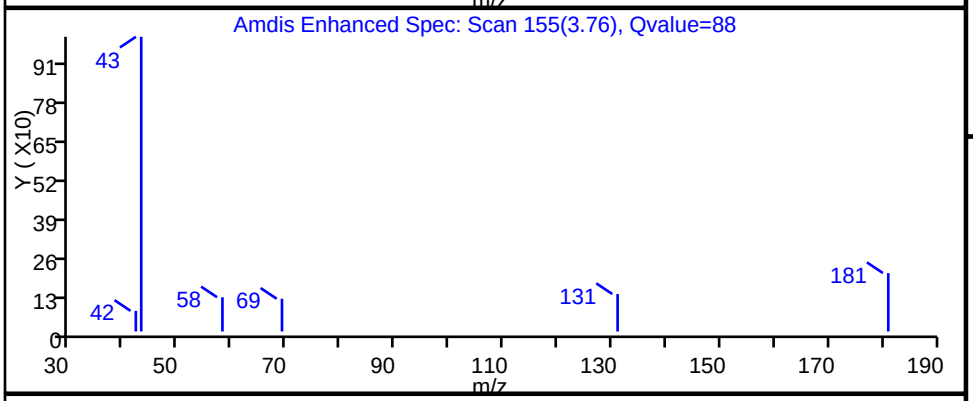
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

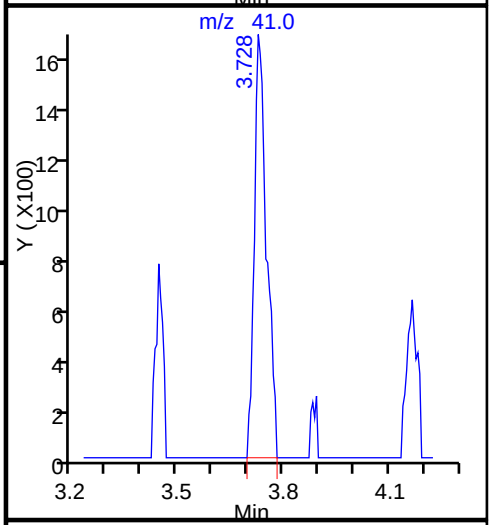
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

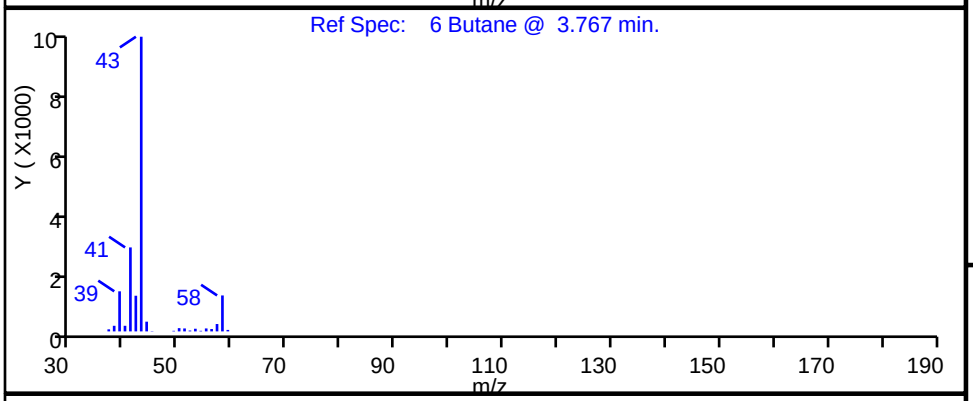
6 Butane, CAS: 106-97-8

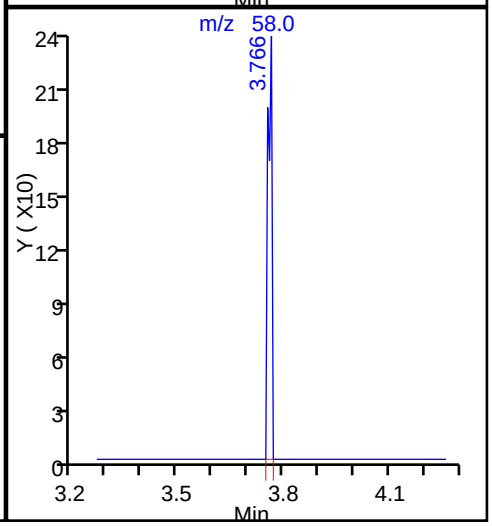


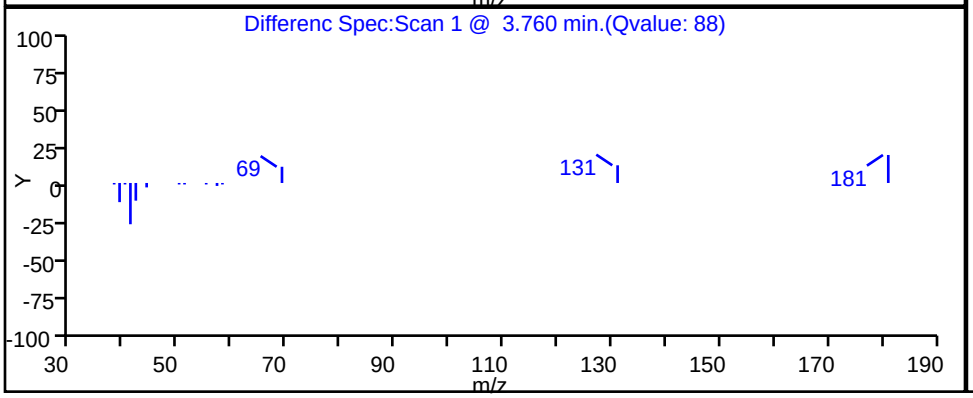










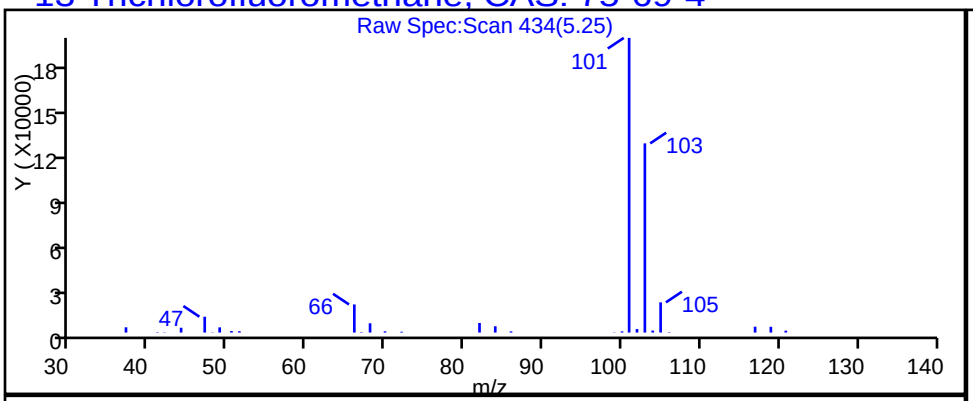


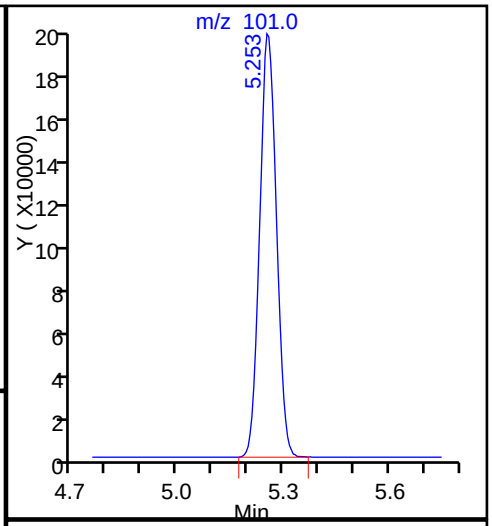
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

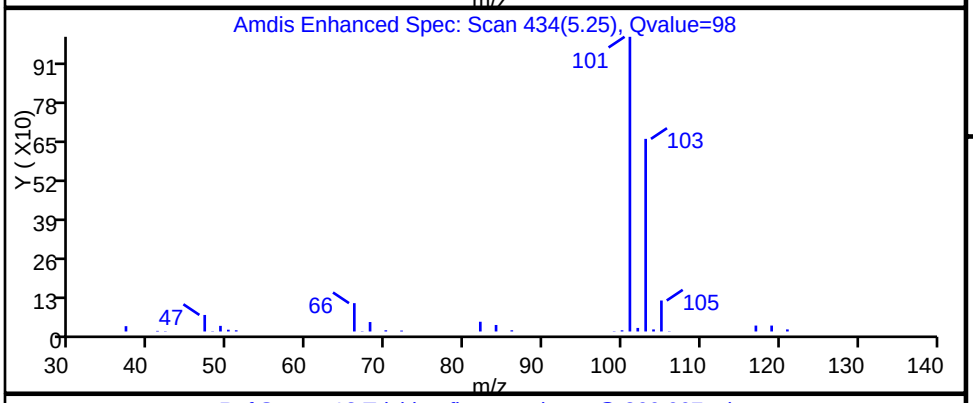
TestAmerica Burlington

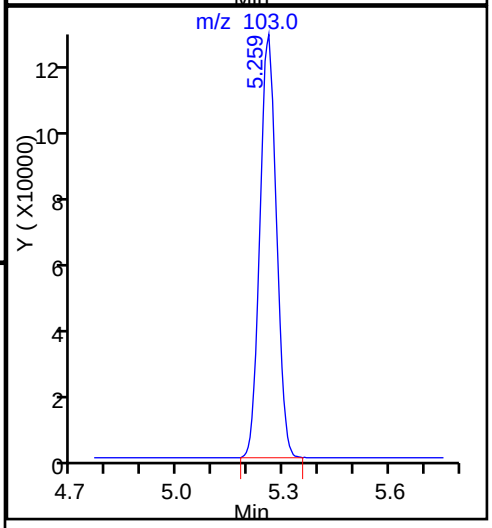
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

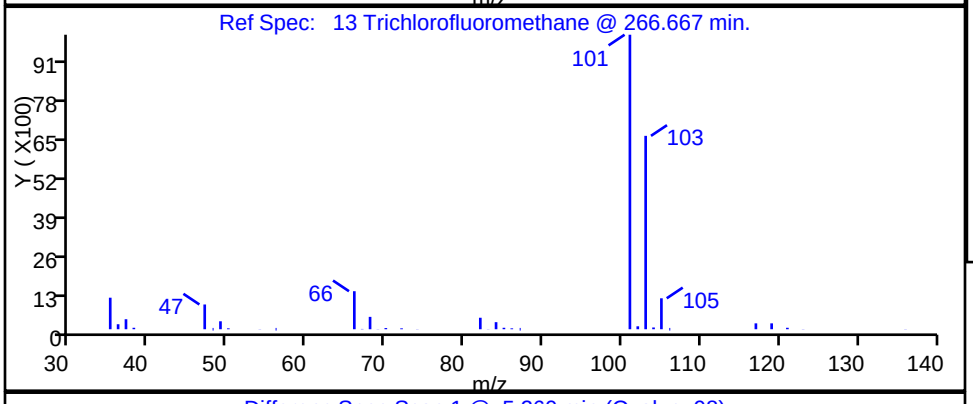
13 Trichlorofluoromethane, CAS: 75-69-4

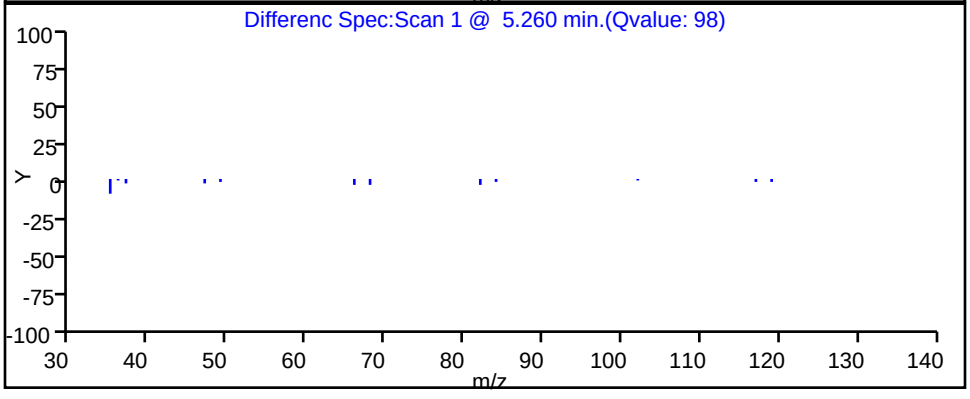












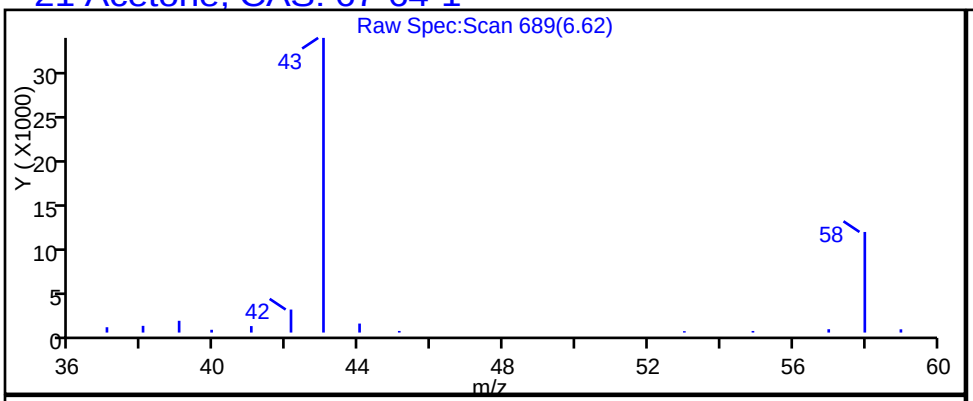
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

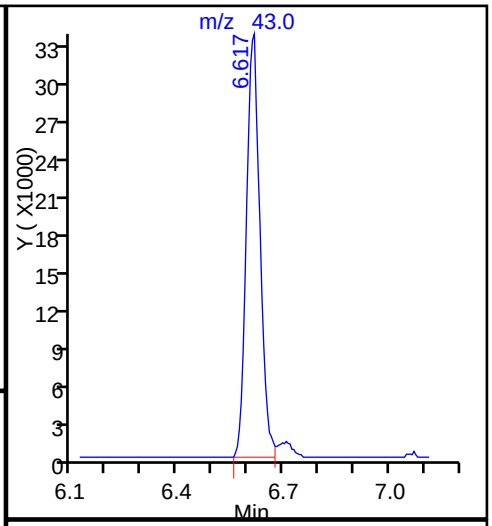
TestAmerica Burlington

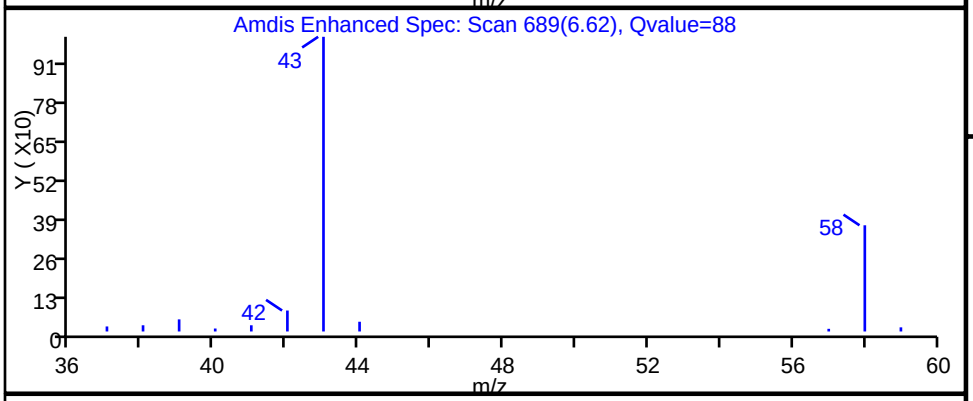
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

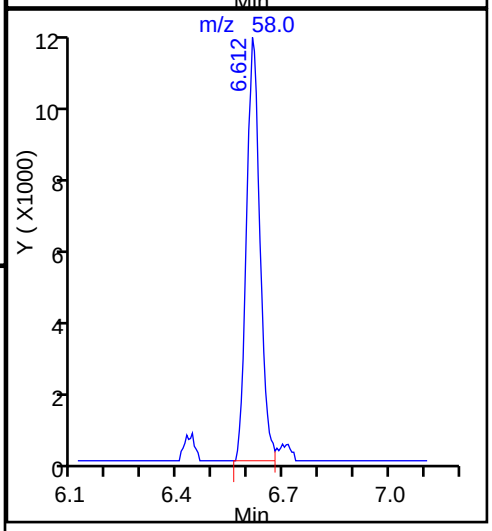
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11
Client ID:	FR-SS06-092315		
Operator ID:	wrd	ALS Bottle#:	2 Worklist Smp#: 21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

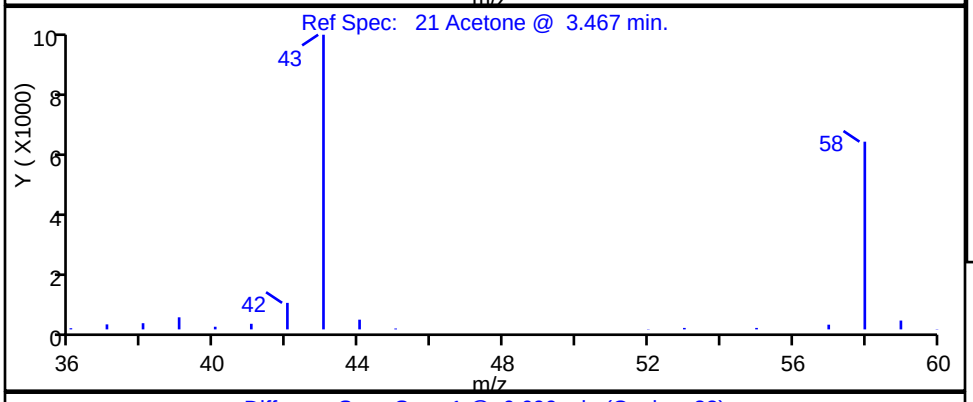
21 Acetone, CAS: 67-64-1

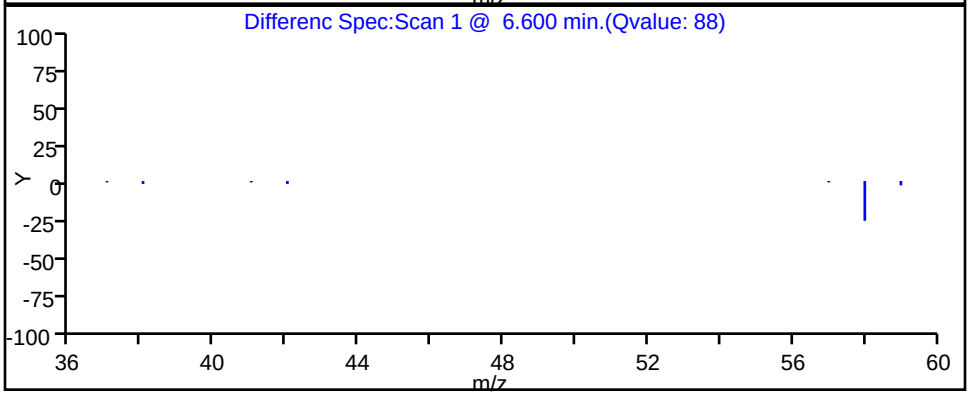












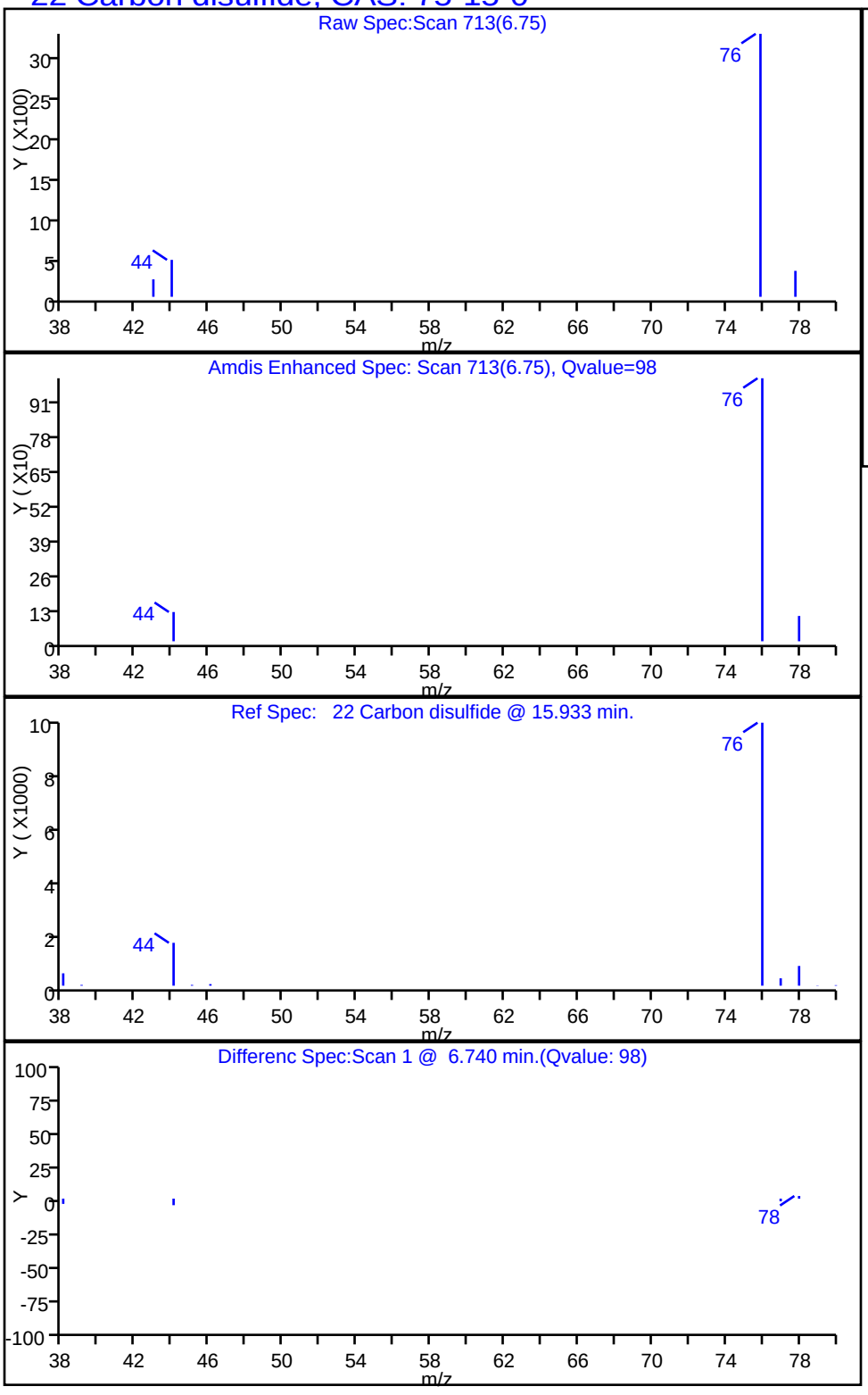
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

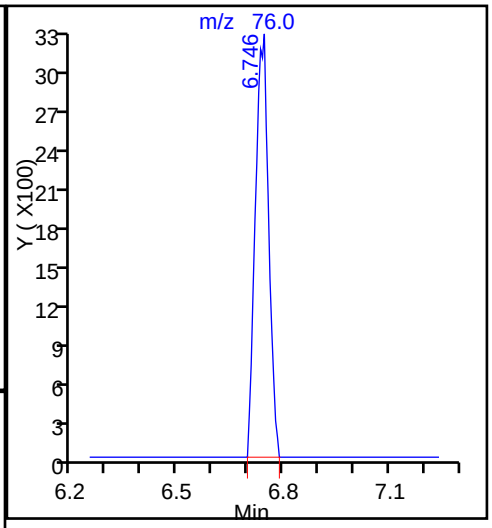
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

22 Carbon disulfide, CAS: 75-15-0



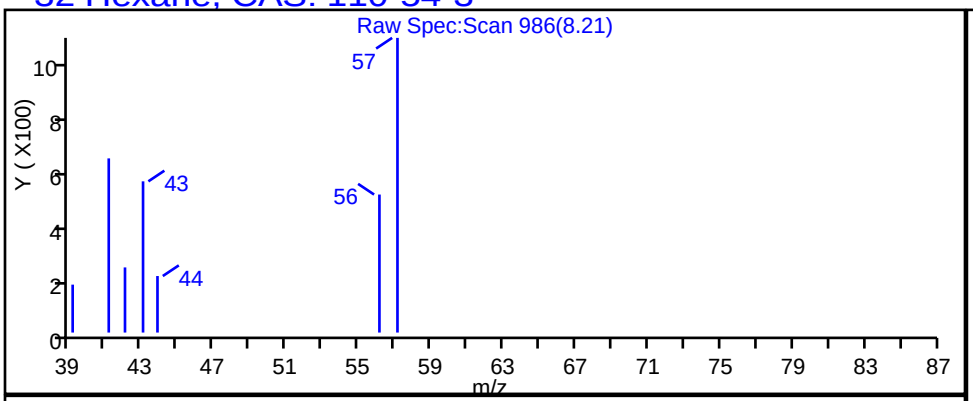


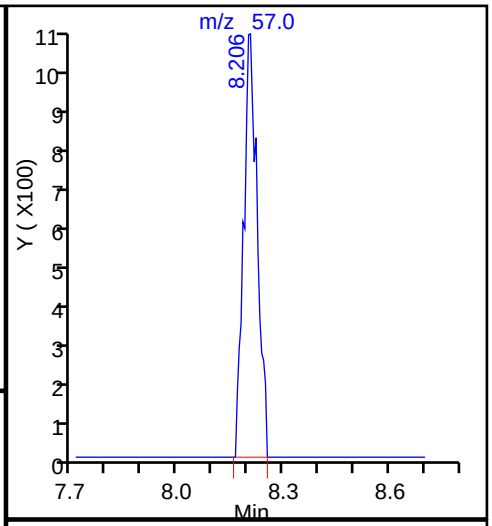
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

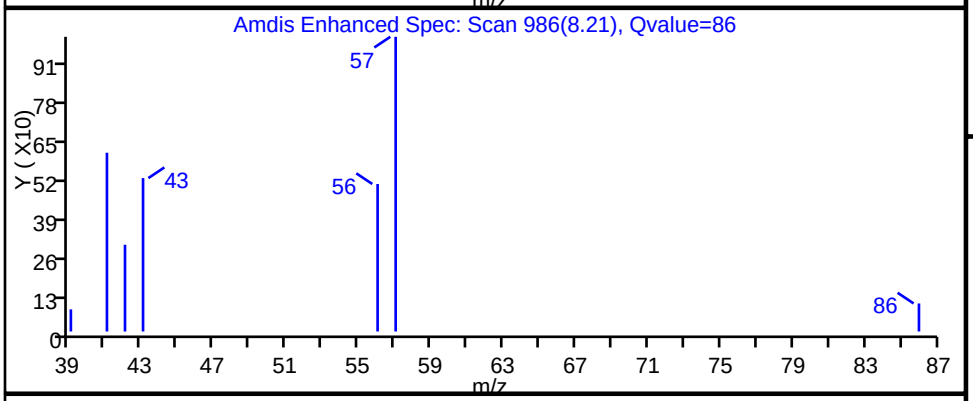
TestAmerica Burlington

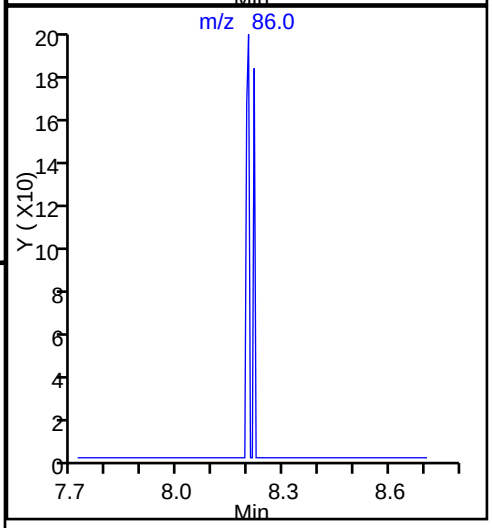
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

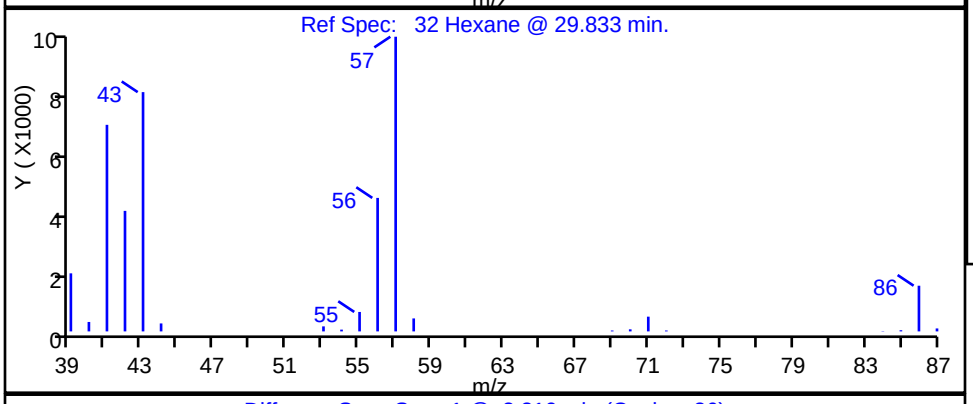
32 Hexane, CAS: 110-54-3

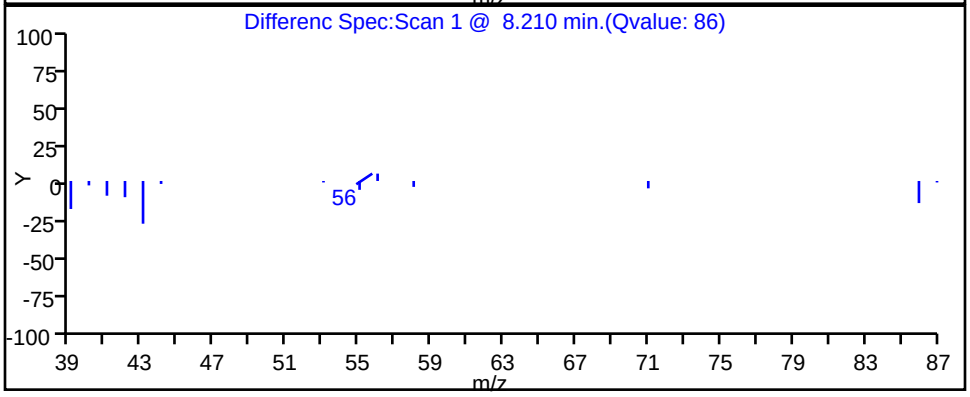












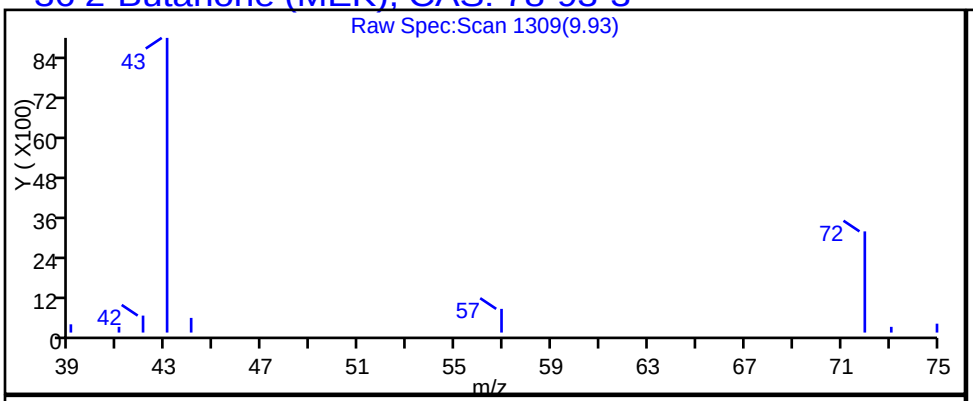
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

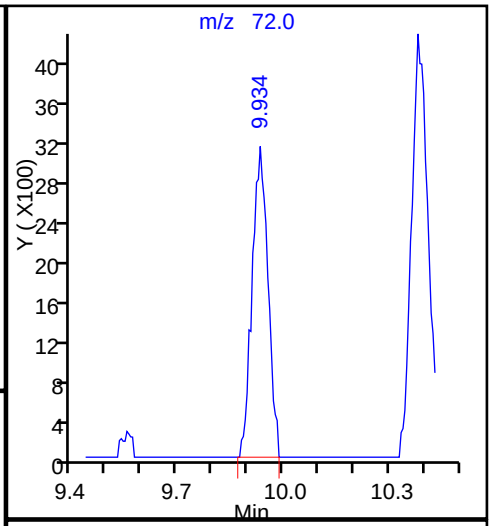
TestAmerica Burlington

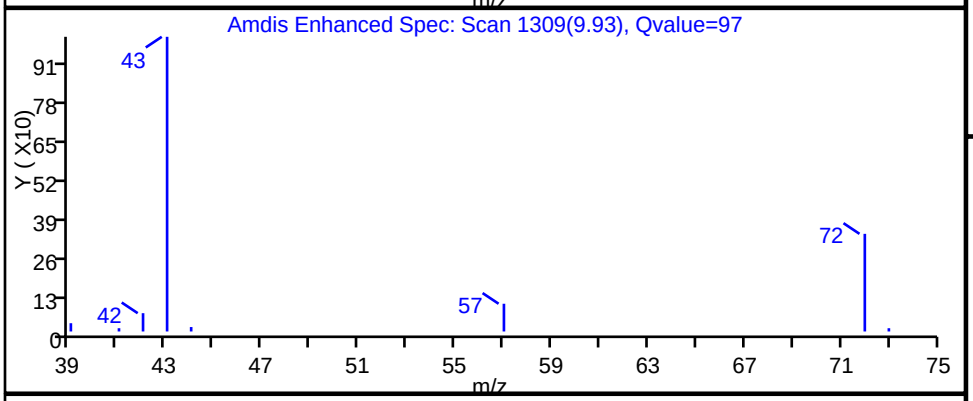
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

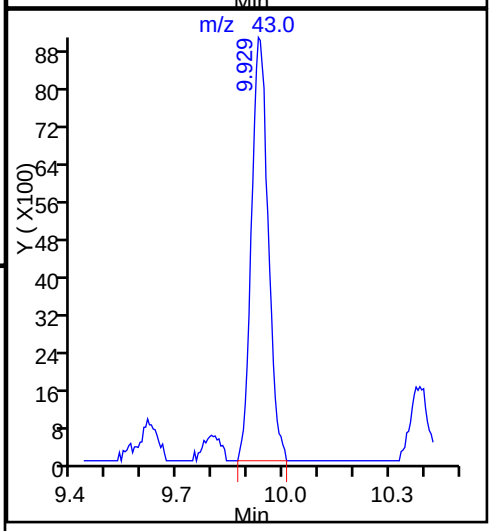
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

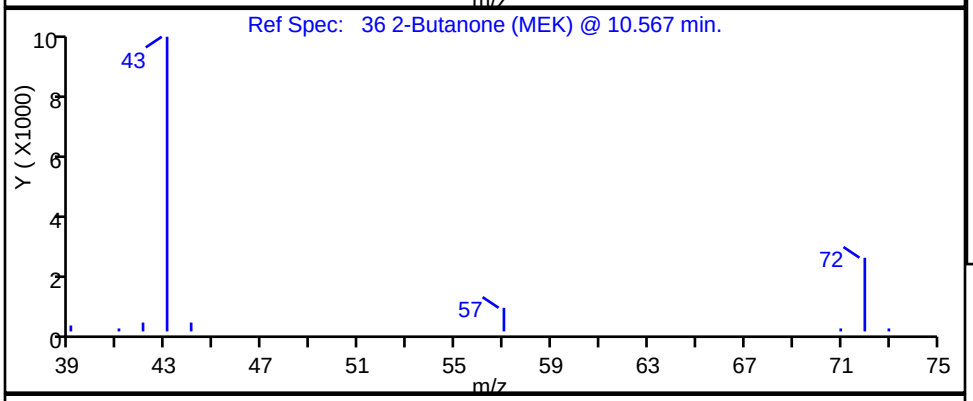
36 2-Butanone (MEK), CAS: 78-93-3

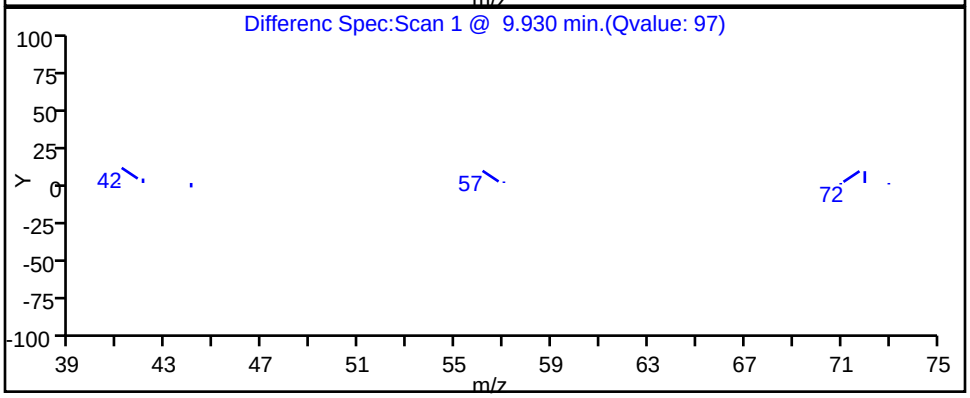












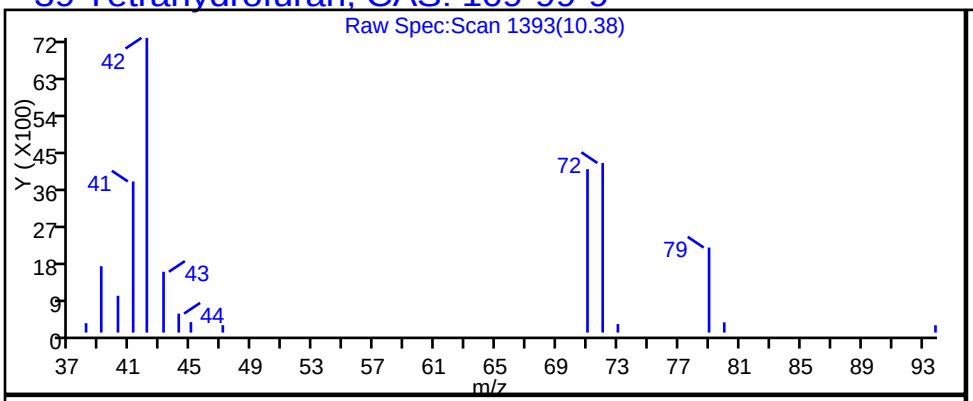
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

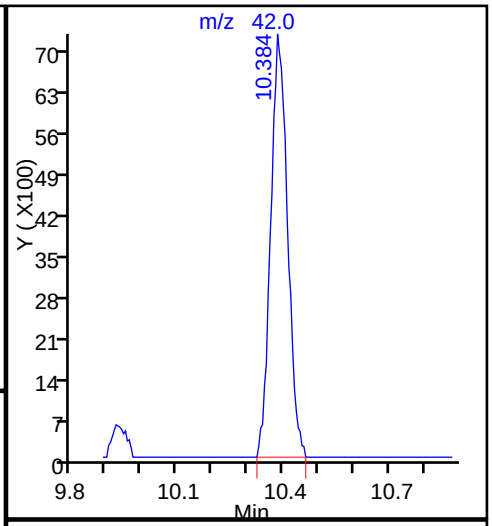
TestAmerica Burlington

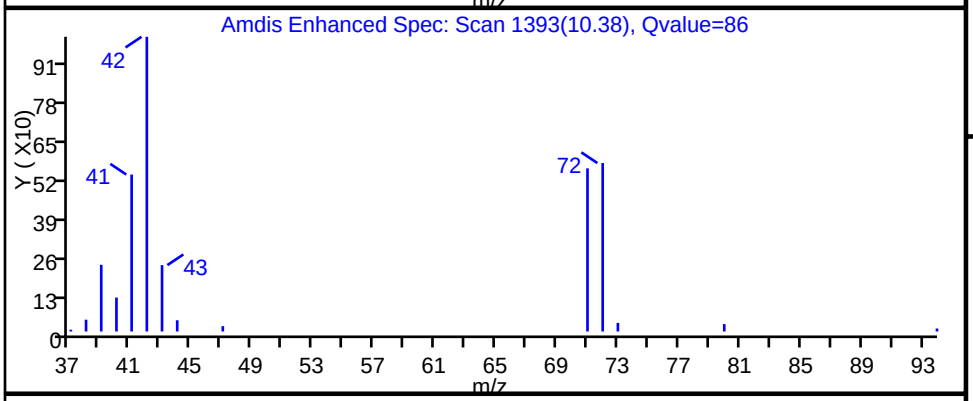
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

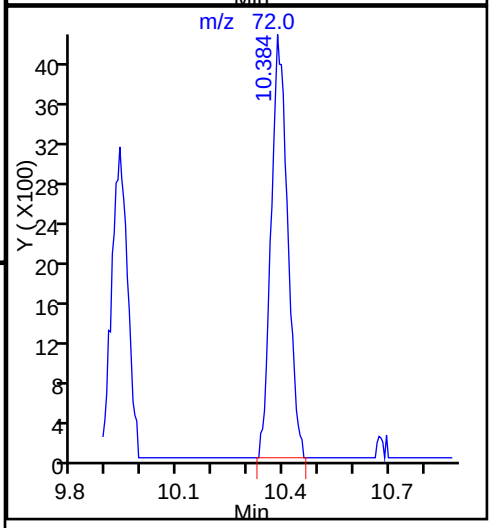
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

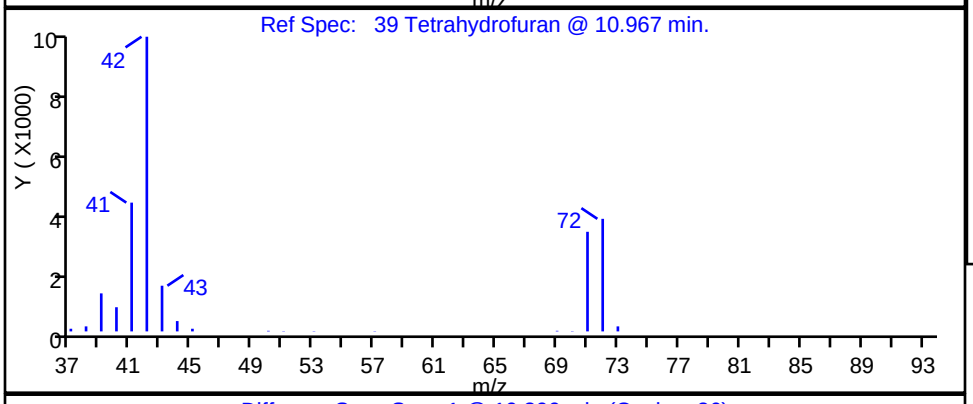
39 Tetrahydrofuran, CAS: 109-99-9

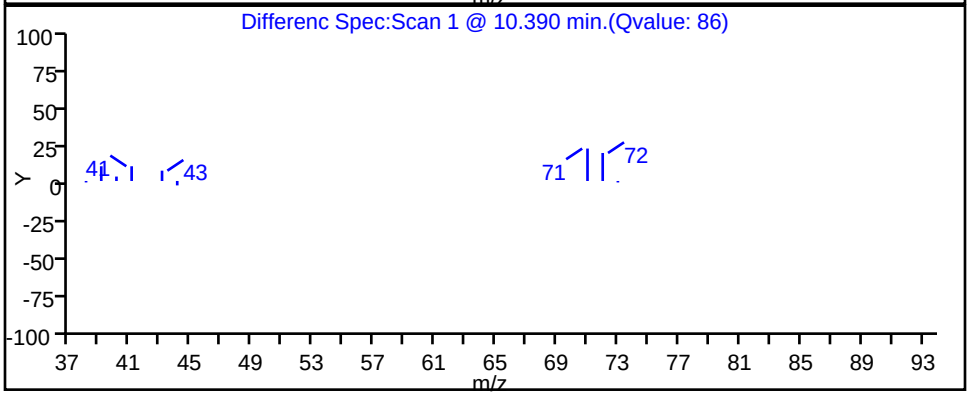










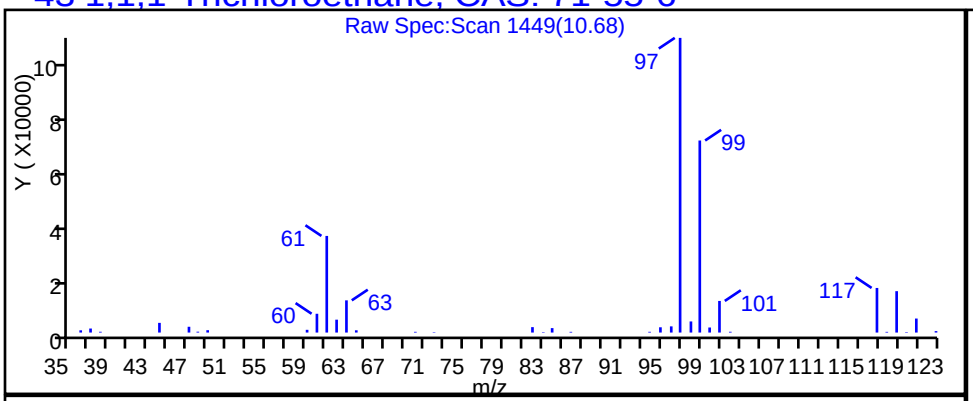


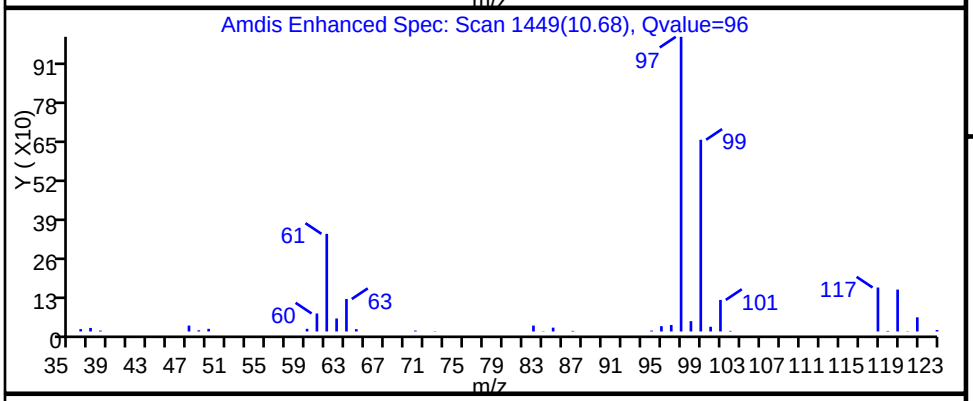
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

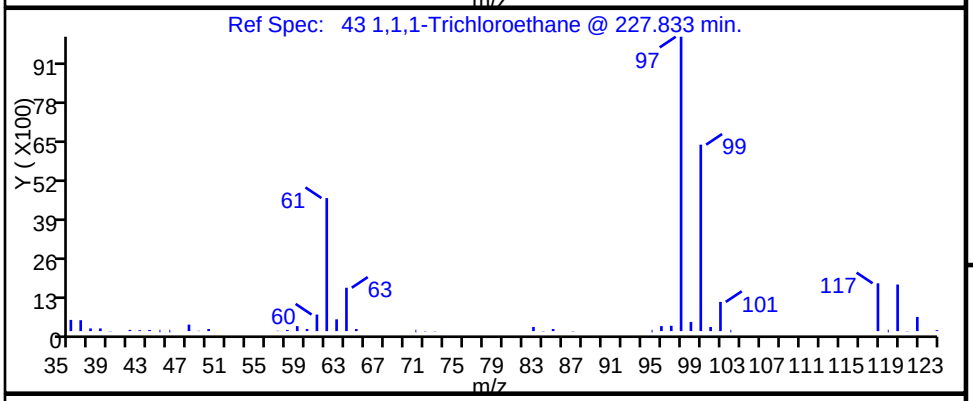
TestAmerica Burlington

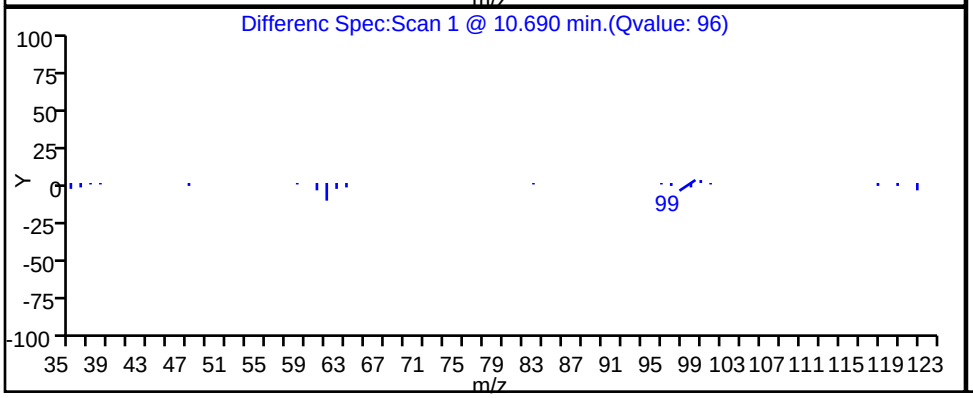
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

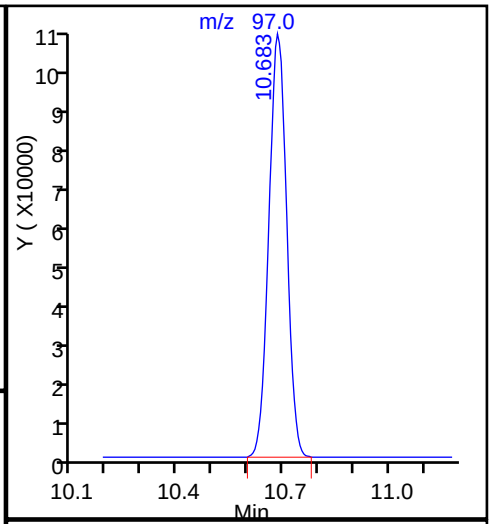
43 1,1,1-Trichloroethane, CAS: 71-55-6

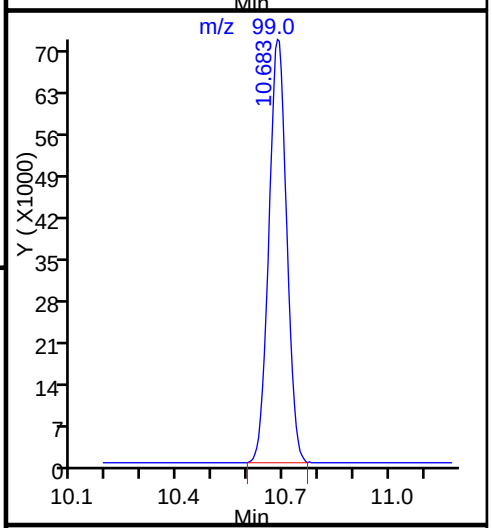


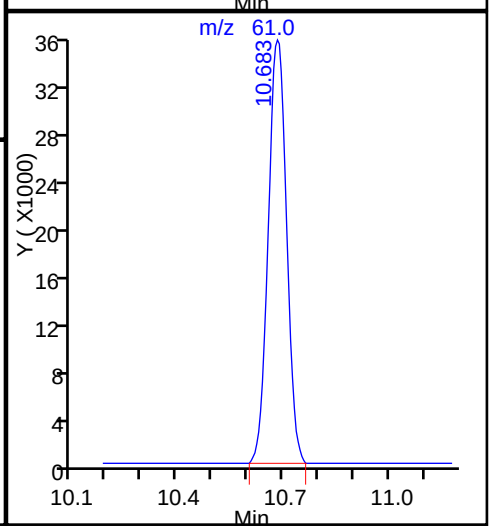










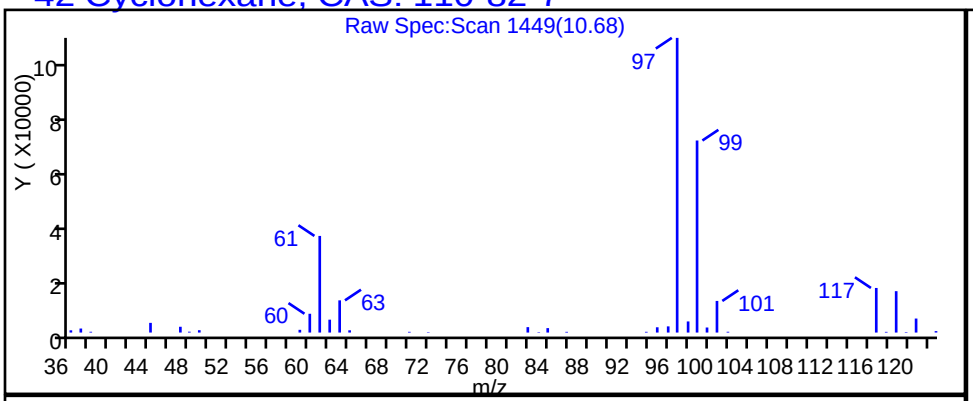


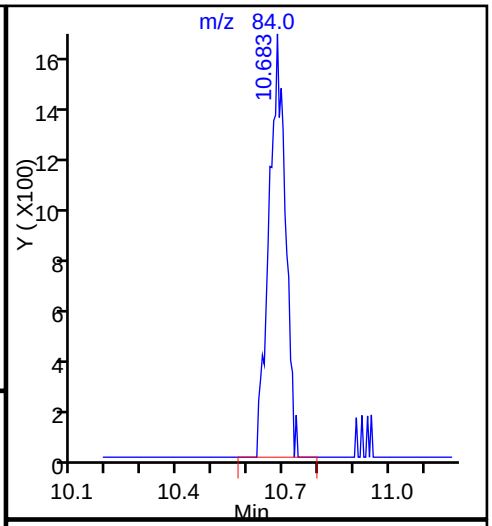
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

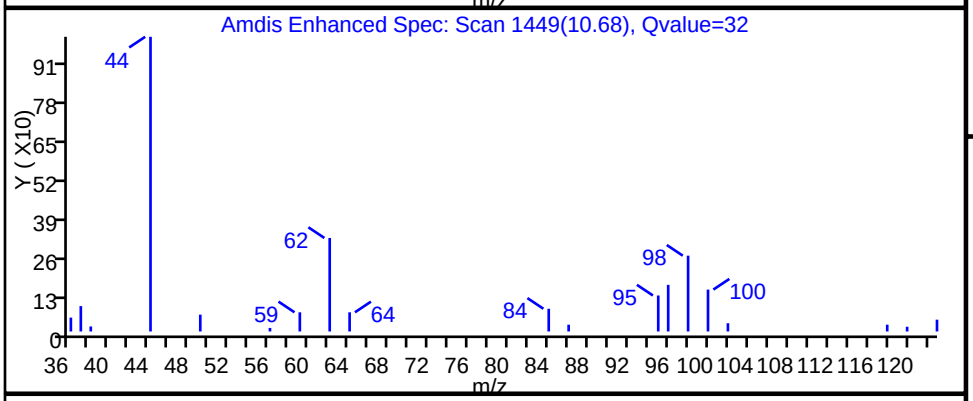
TestAmerica Burlington

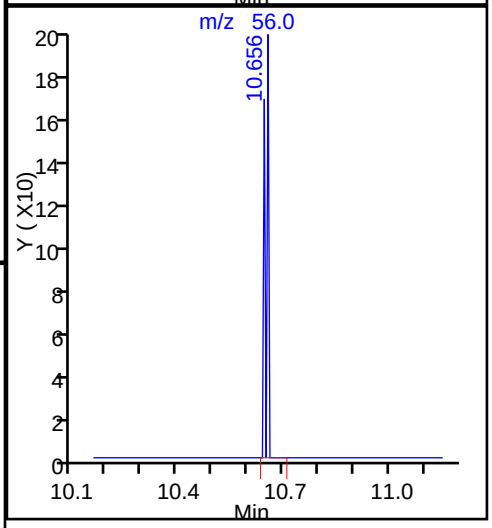
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

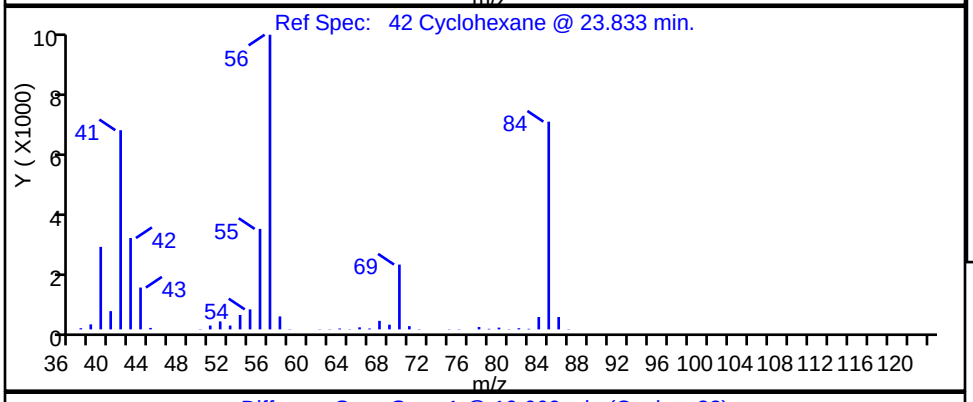
42 Cyclohexane, CAS: 110-82-7

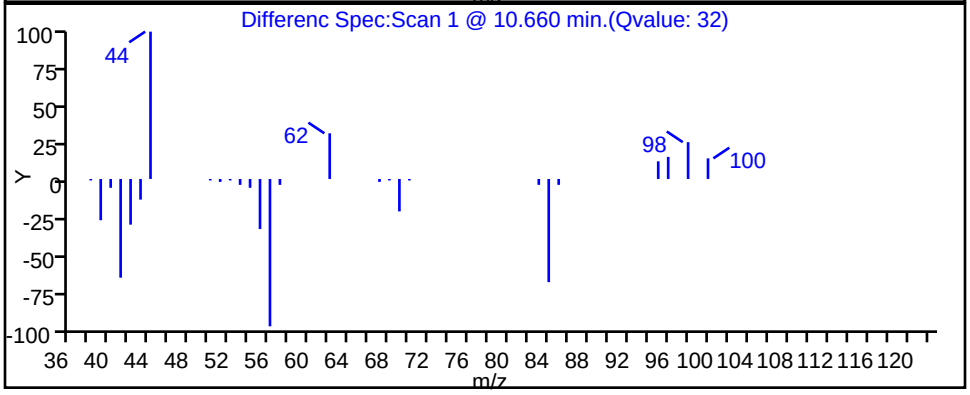












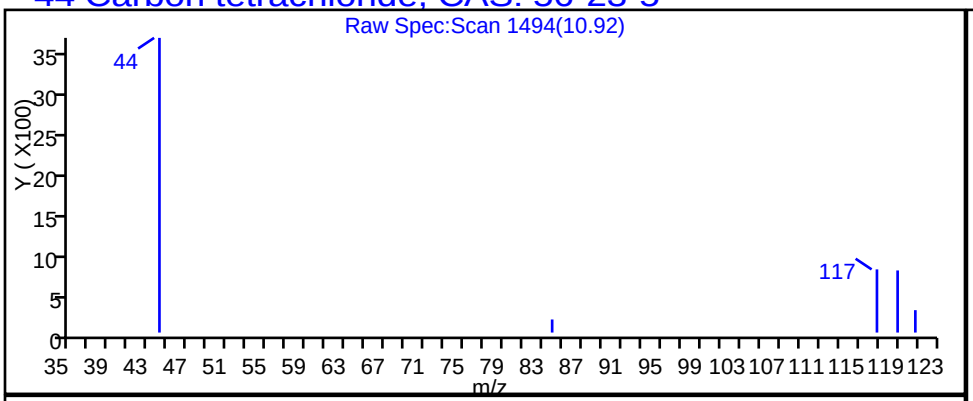
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

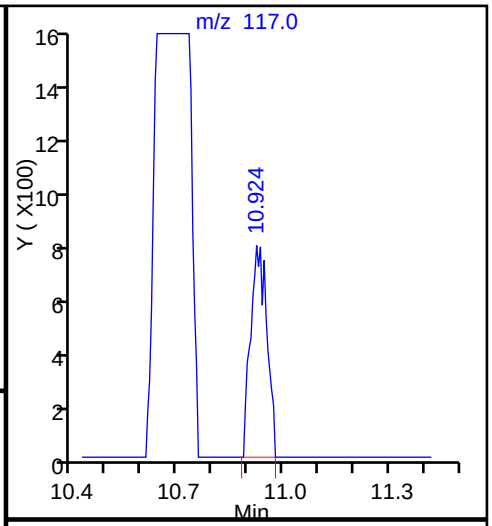
TestAmerica Burlington

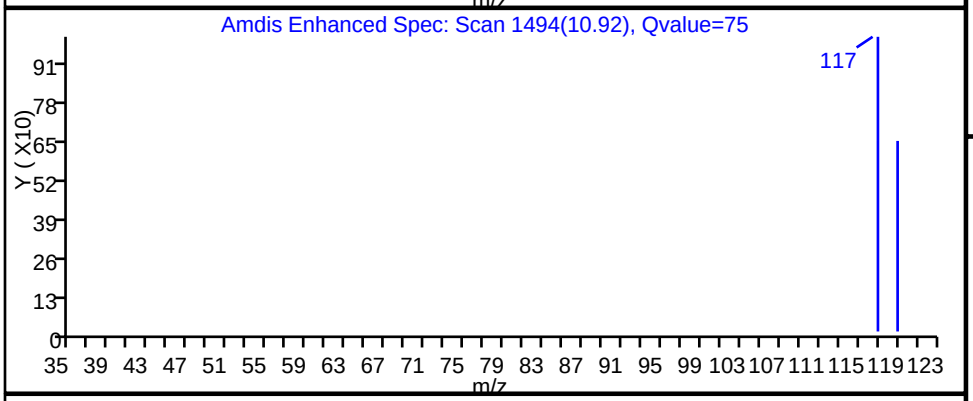
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

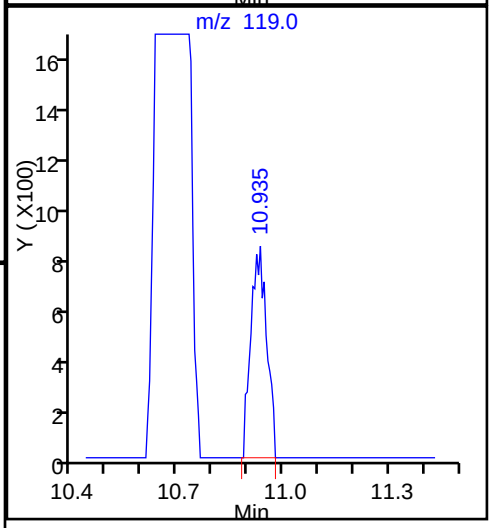
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

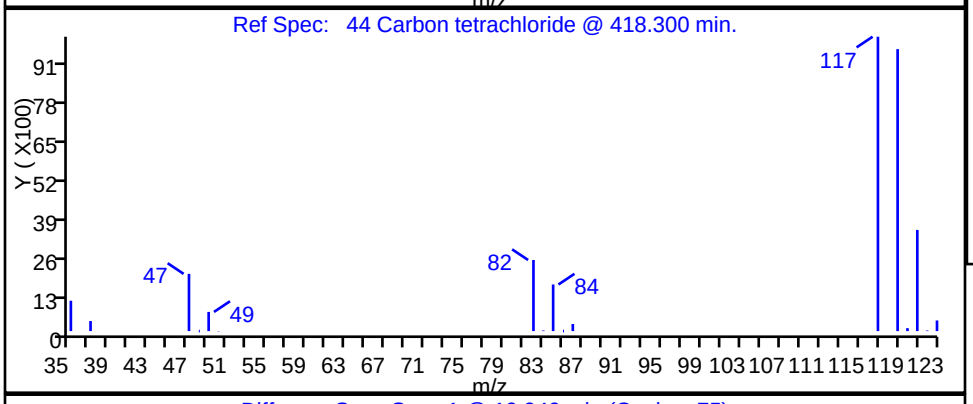
44 Carbon tetrachloride, CAS: 56-23-5

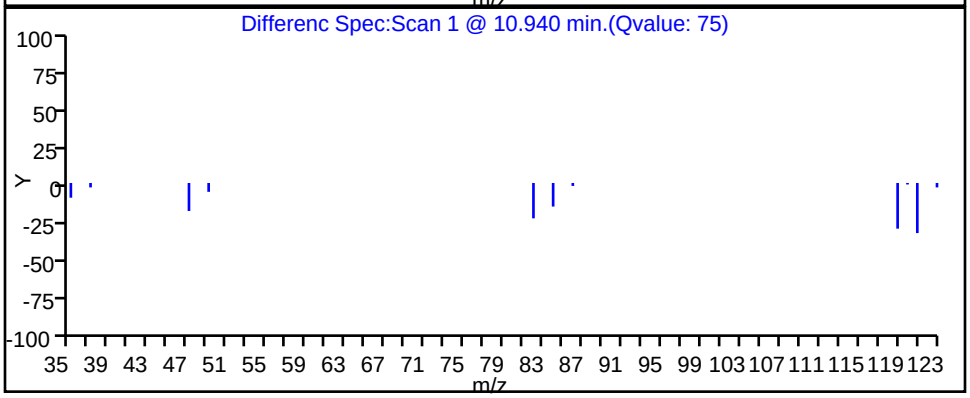












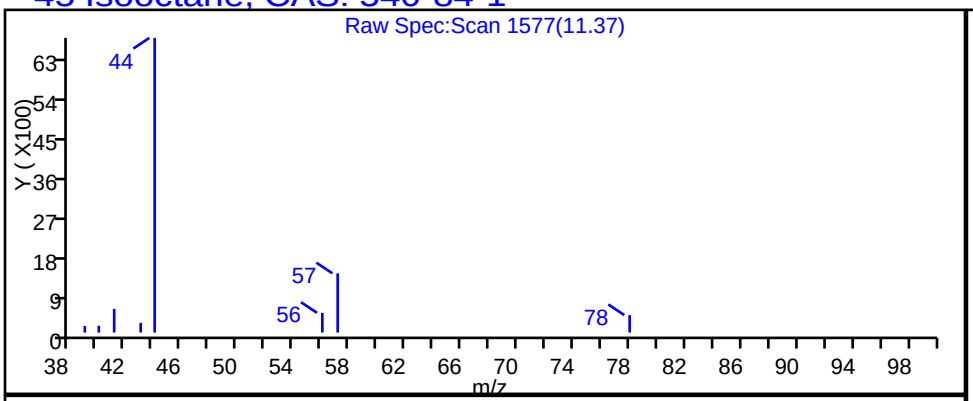
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

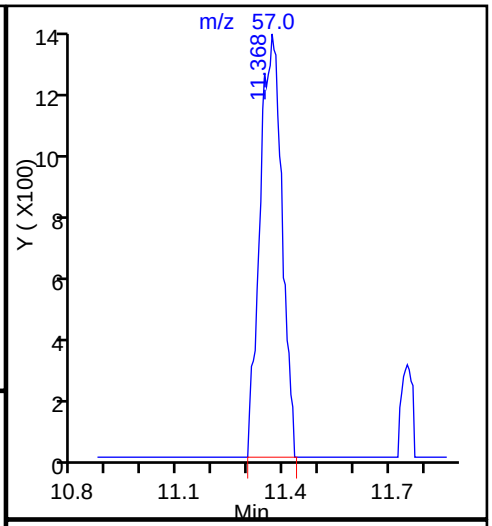
TestAmerica Burlington

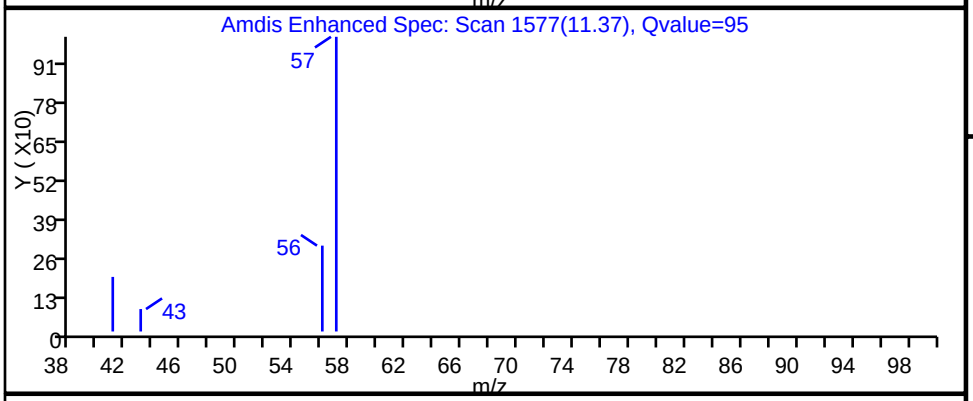
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

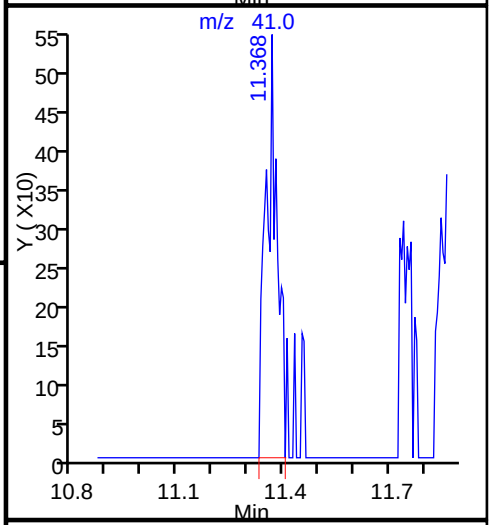
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

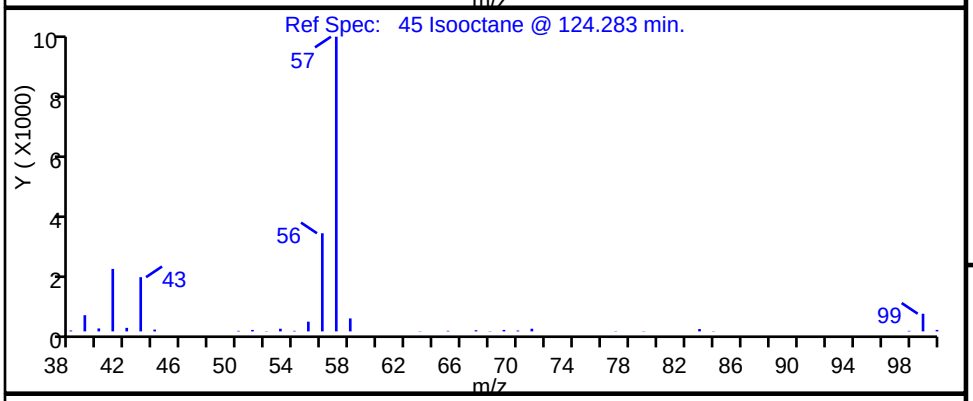
45 Isooctane, CAS: 540-84-1

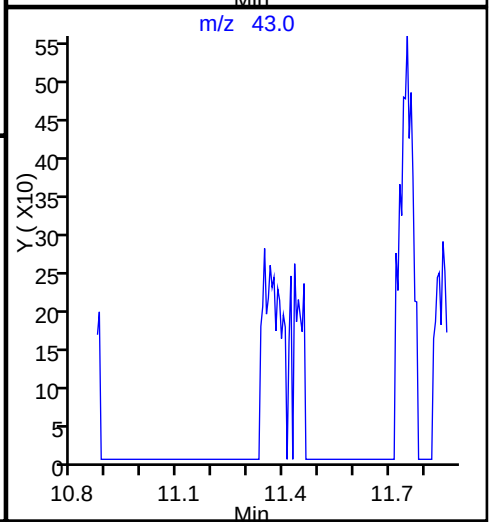


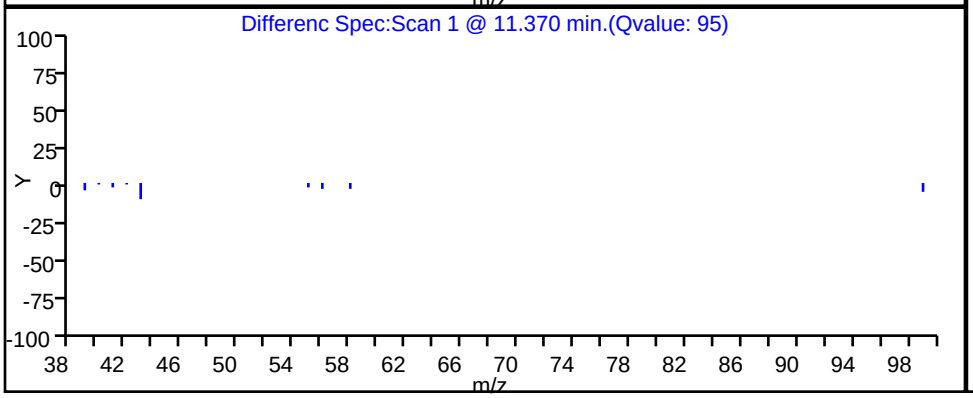












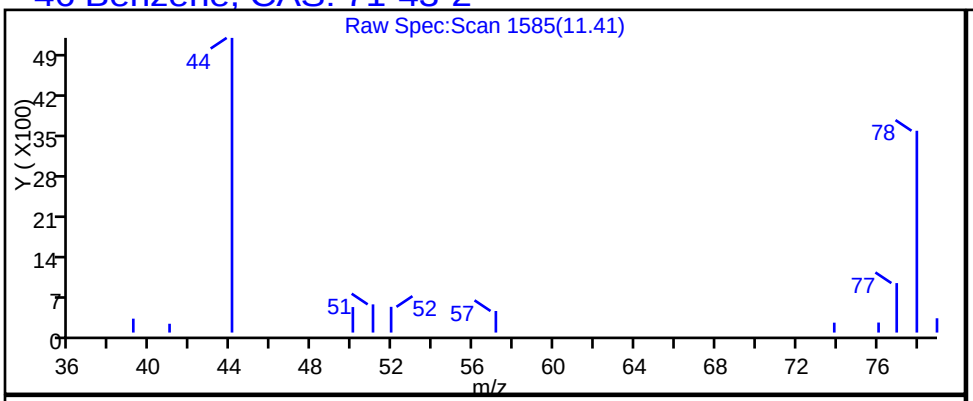
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

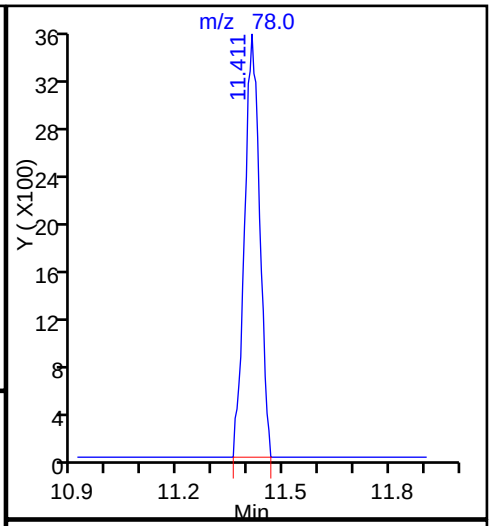
TestAmerica Burlington

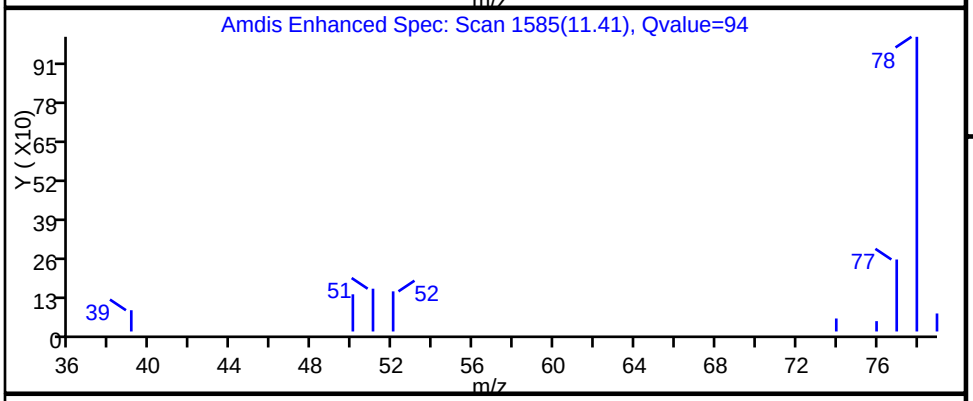
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

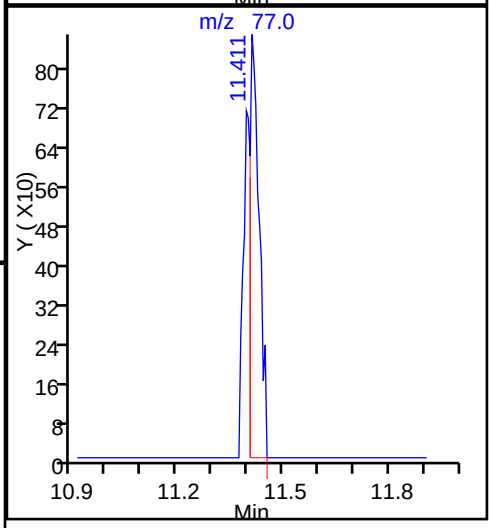
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

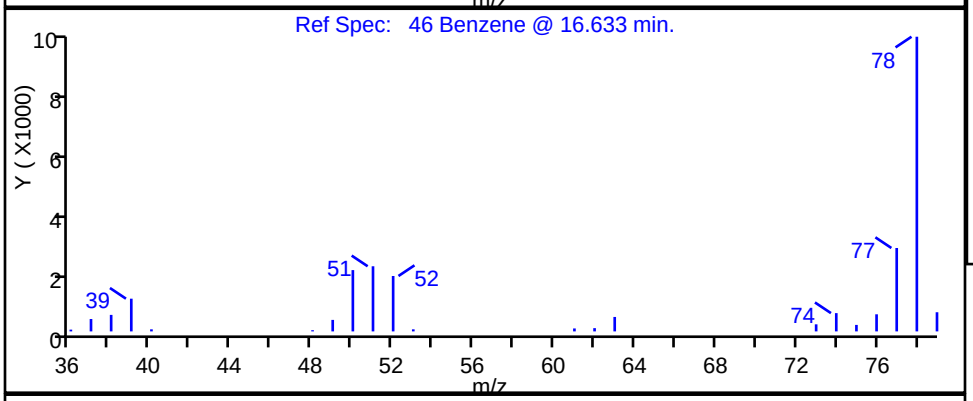
46 Benzene, CAS: 71-43-2

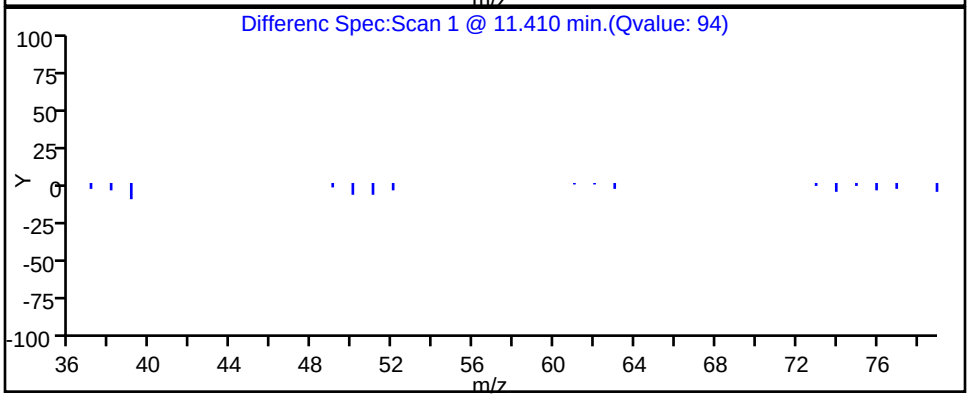












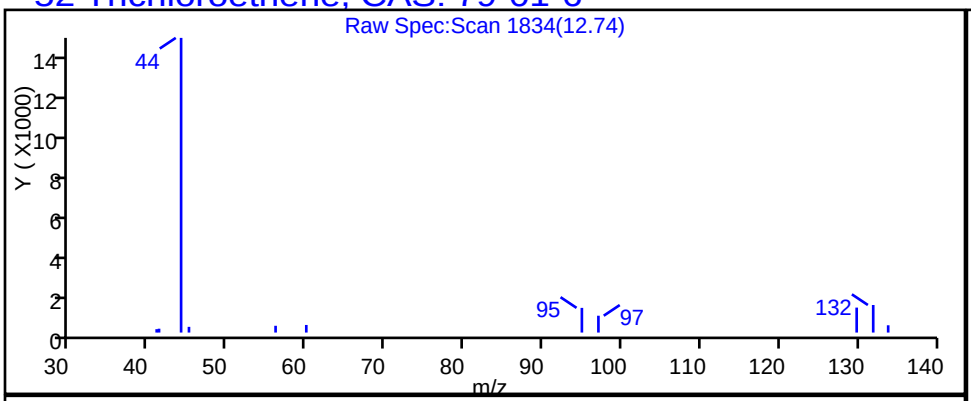
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

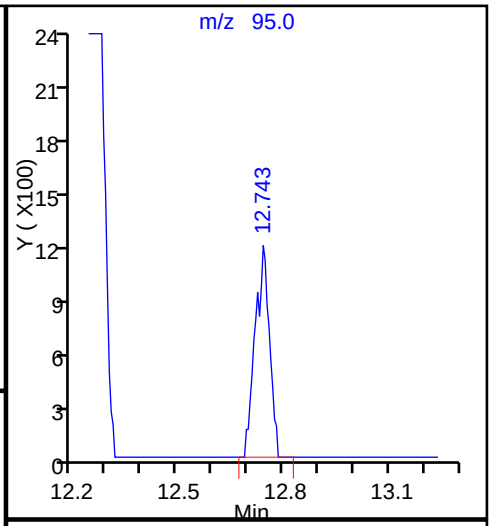
TestAmerica Burlington

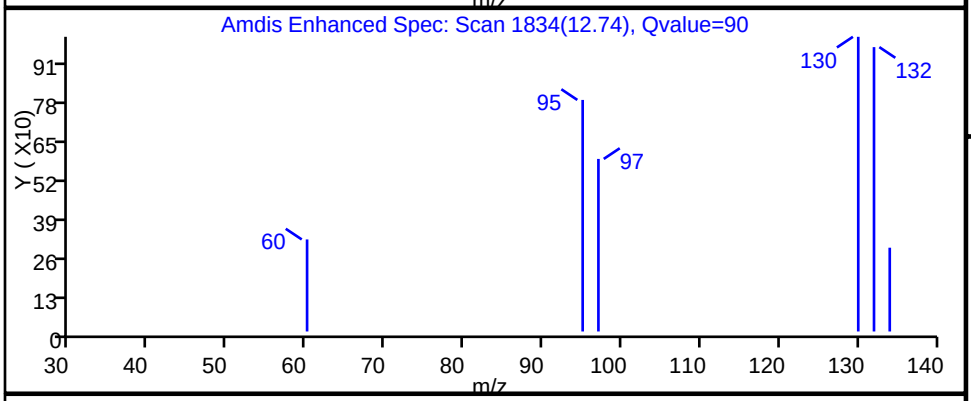
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

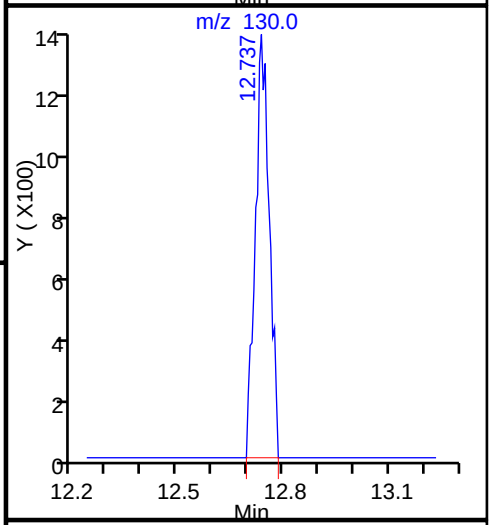
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

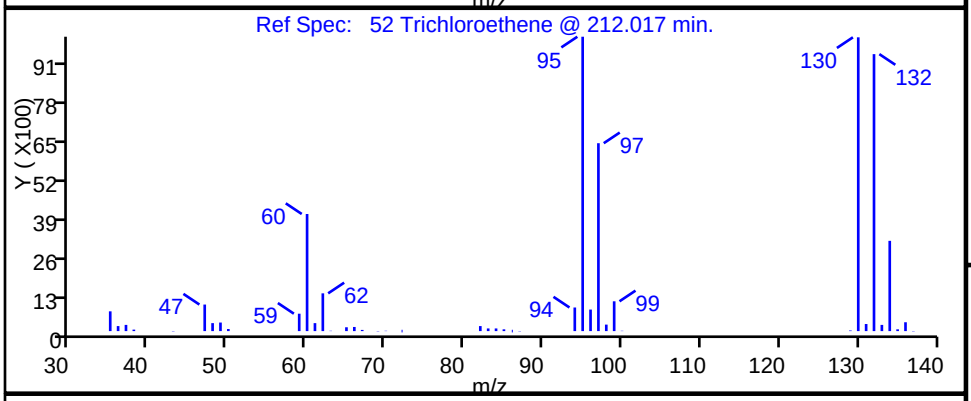
52 Trichloroethene, CAS: 79-01-6

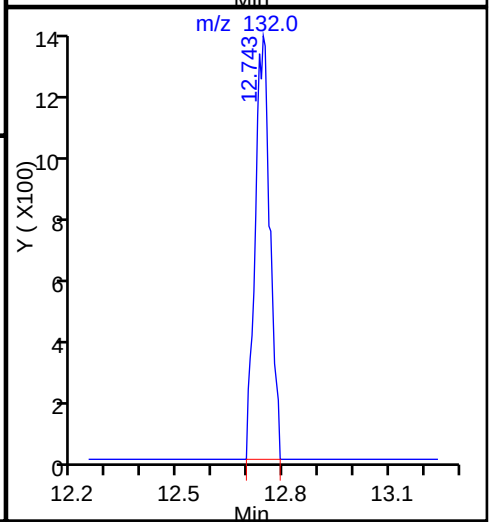


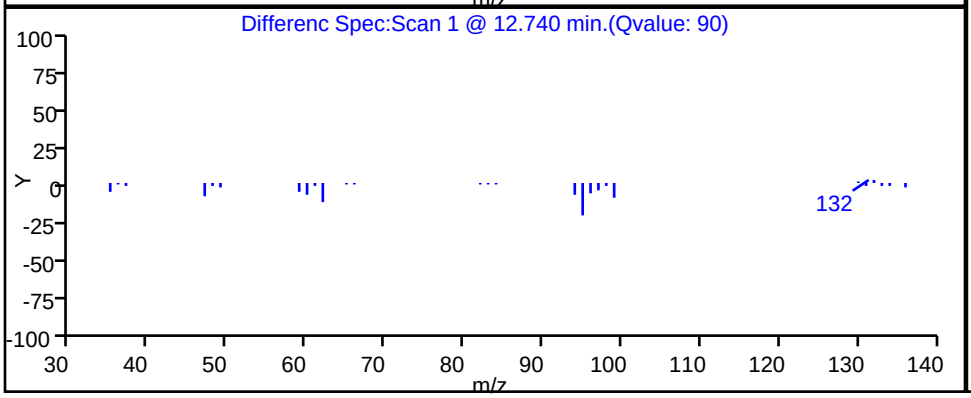










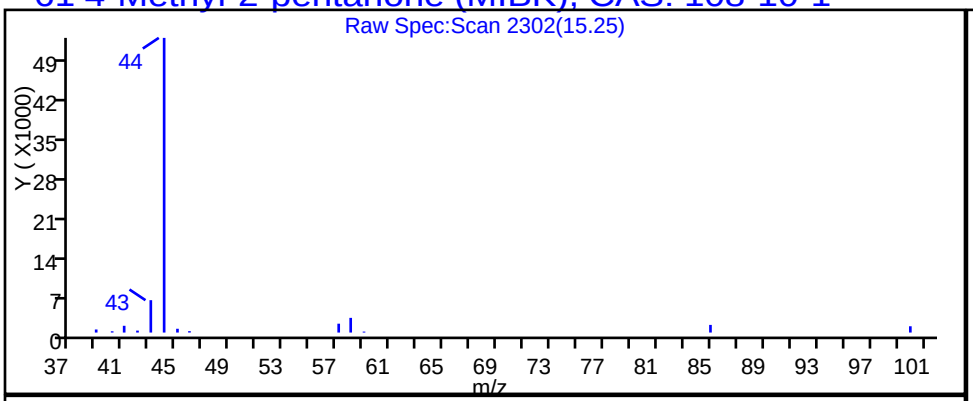


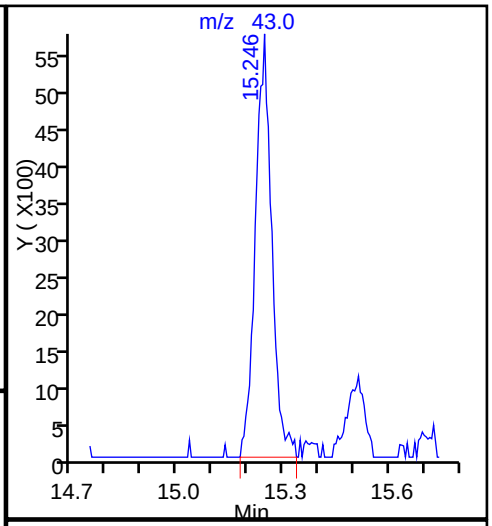
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

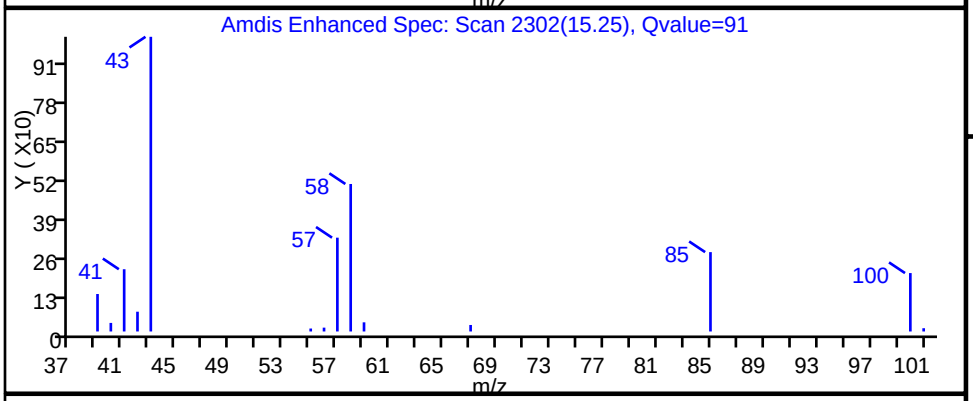
TestAmerica Burlington

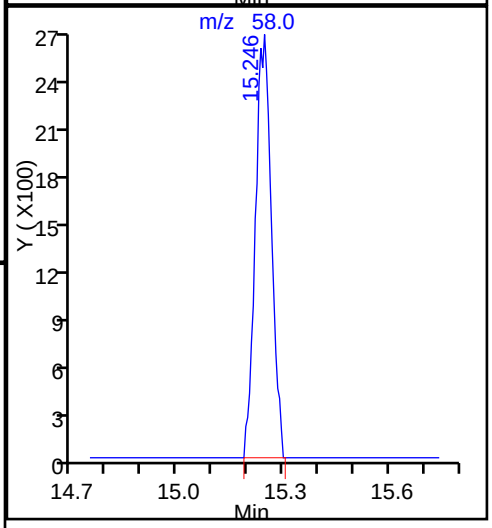
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

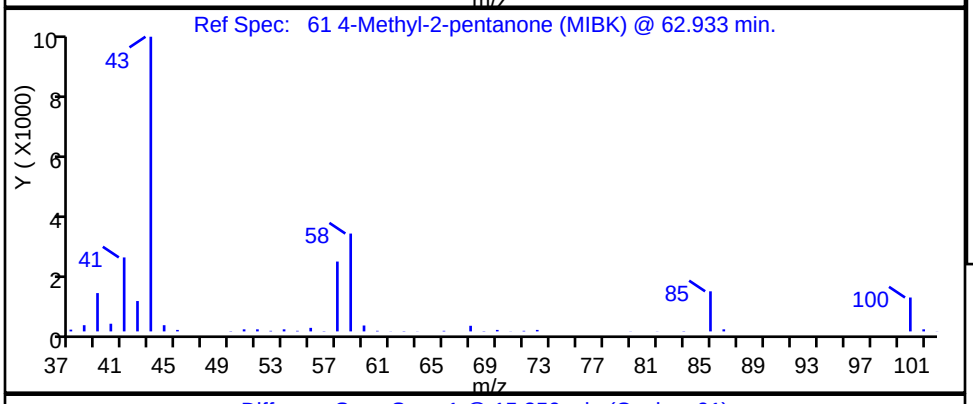
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

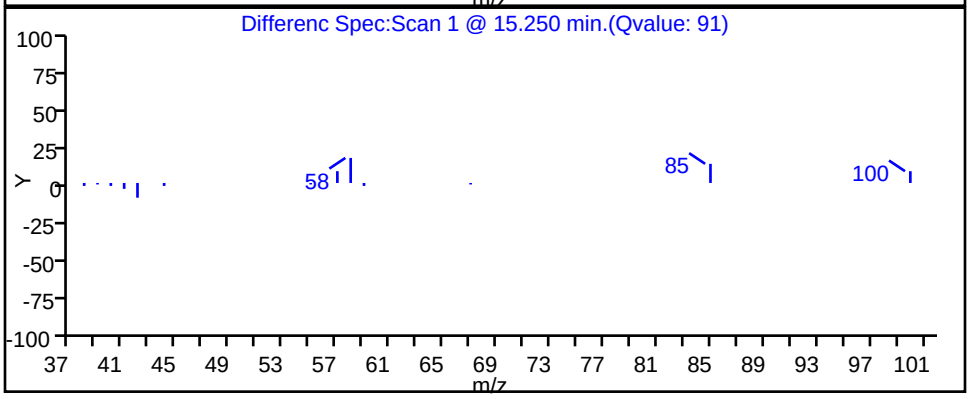












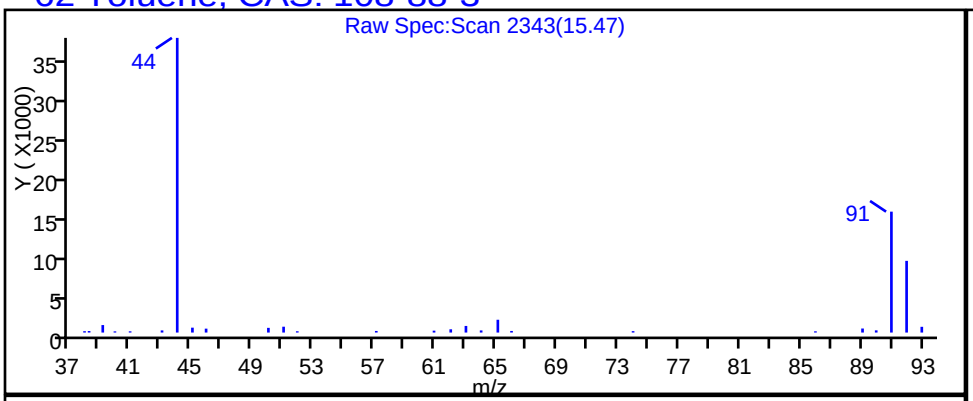
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

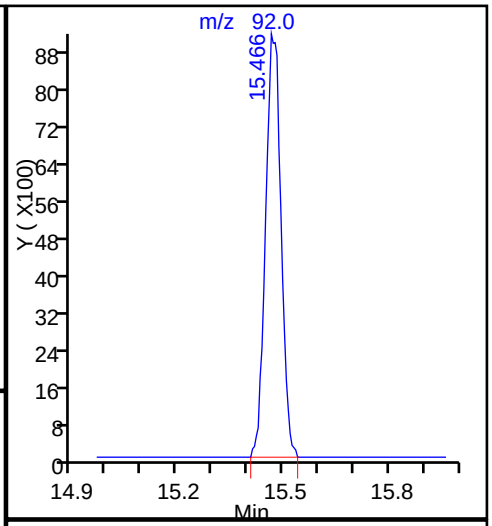
TestAmerica Burlington

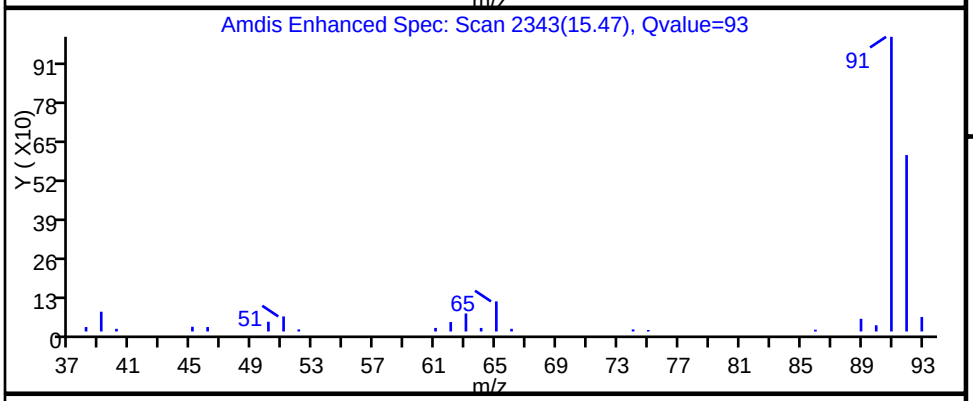
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

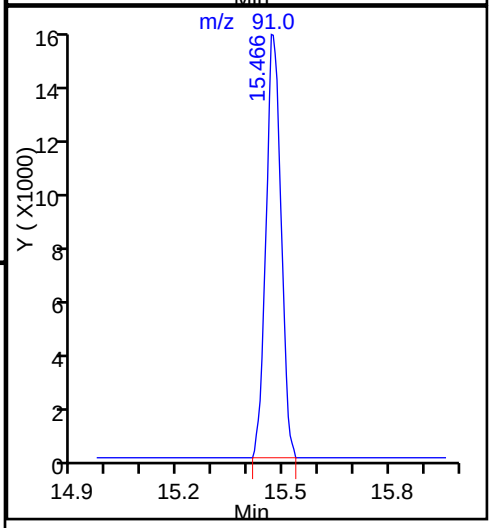
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

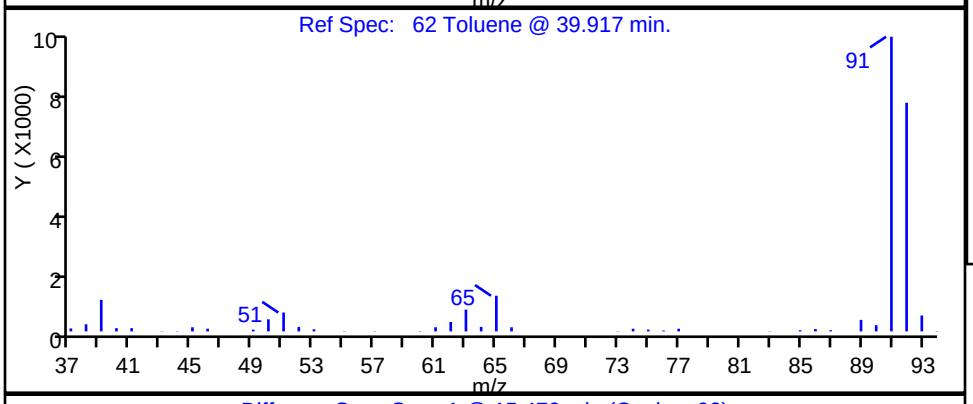
62 Toluene, CAS: 108-88-3

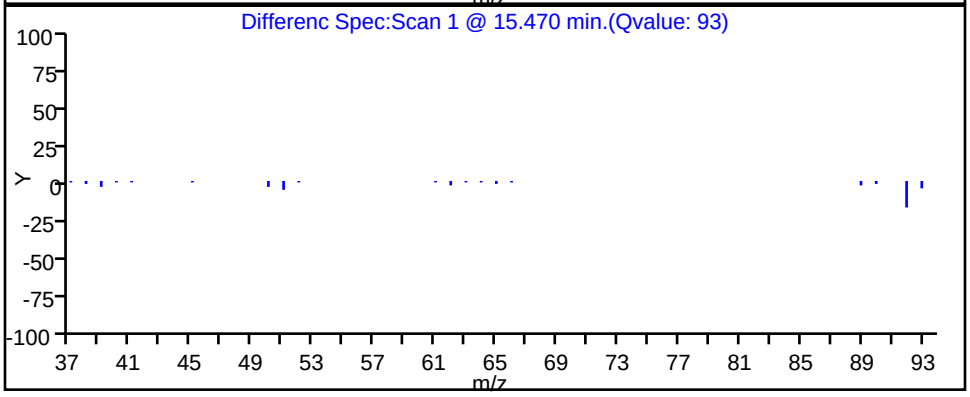












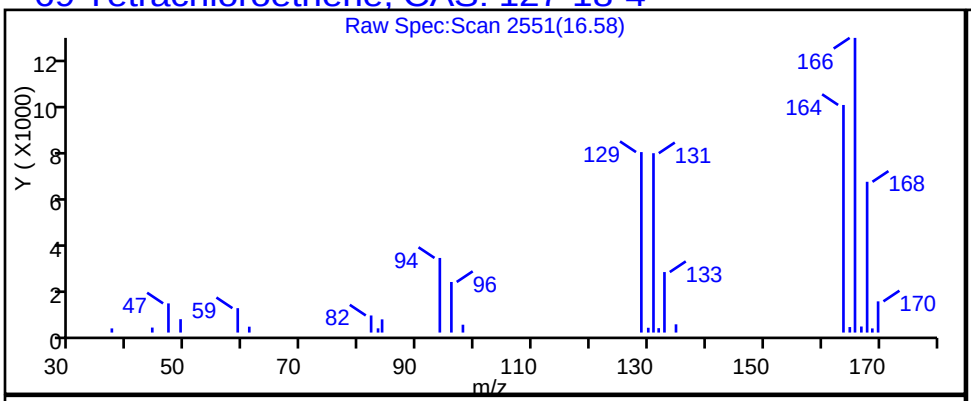
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

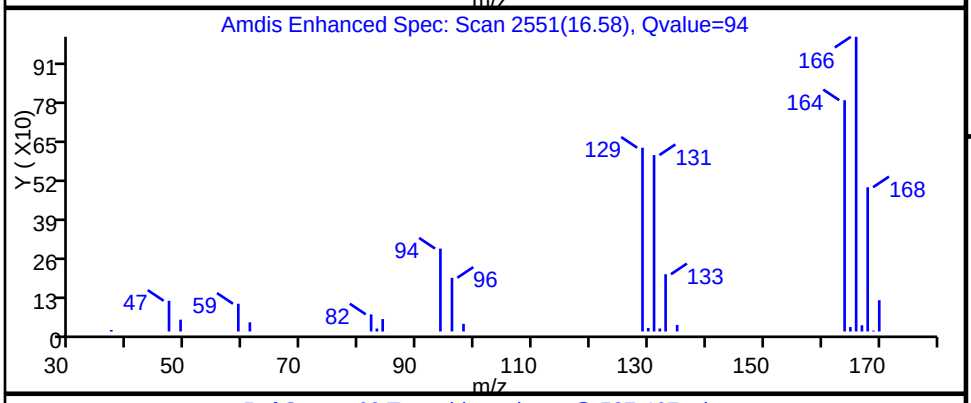
TestAmerica Burlington

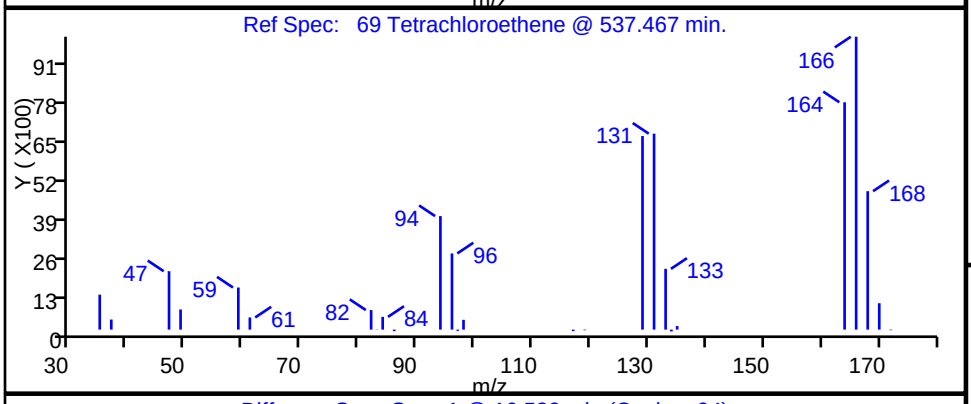
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

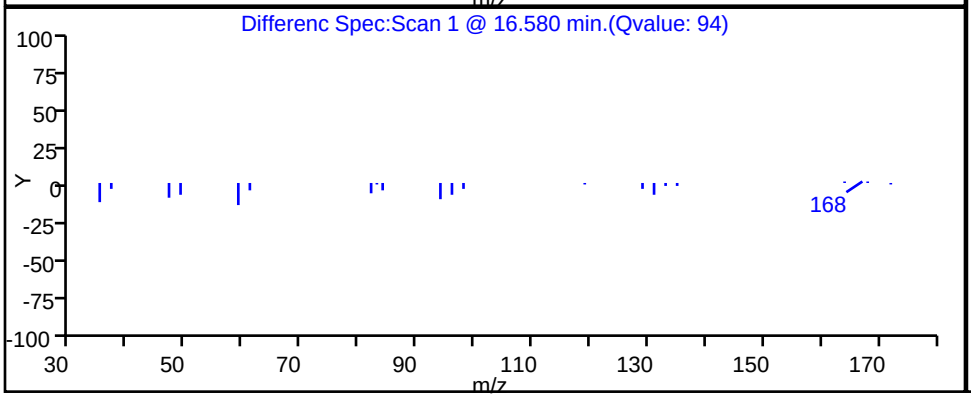
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

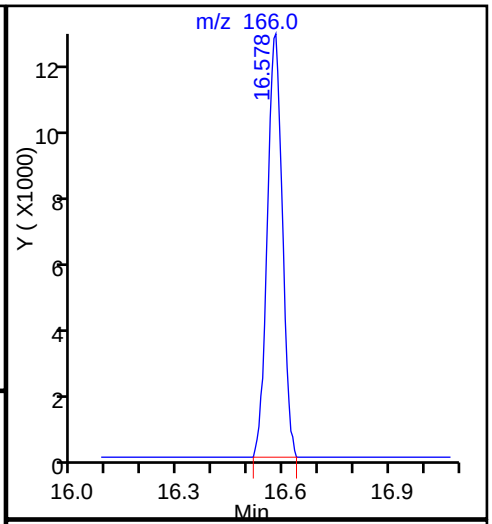
69 Tetrachloroethene, CAS: 127-18-4

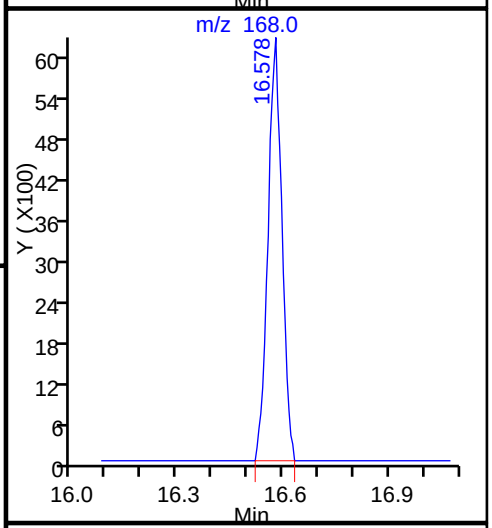


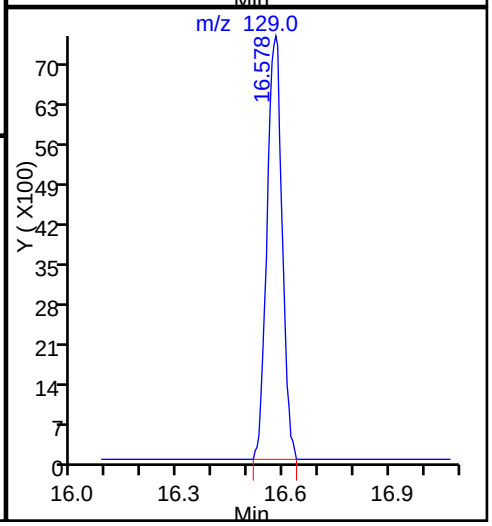










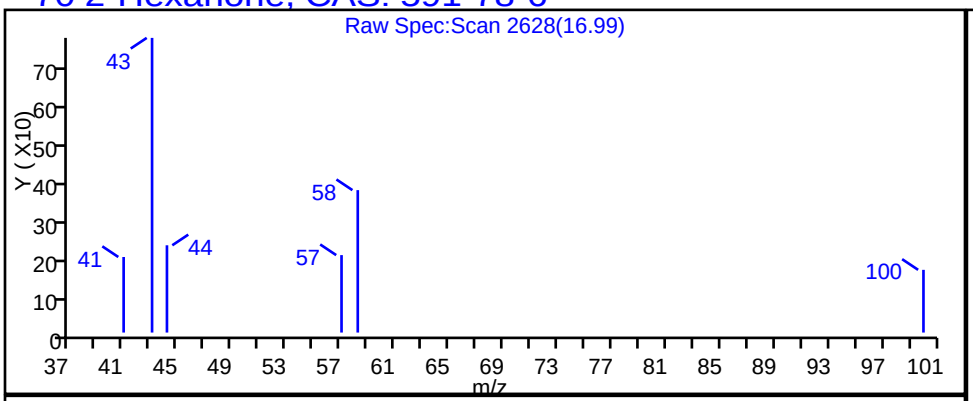


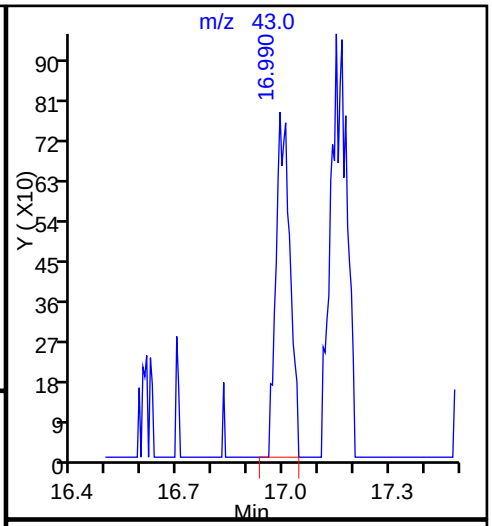
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

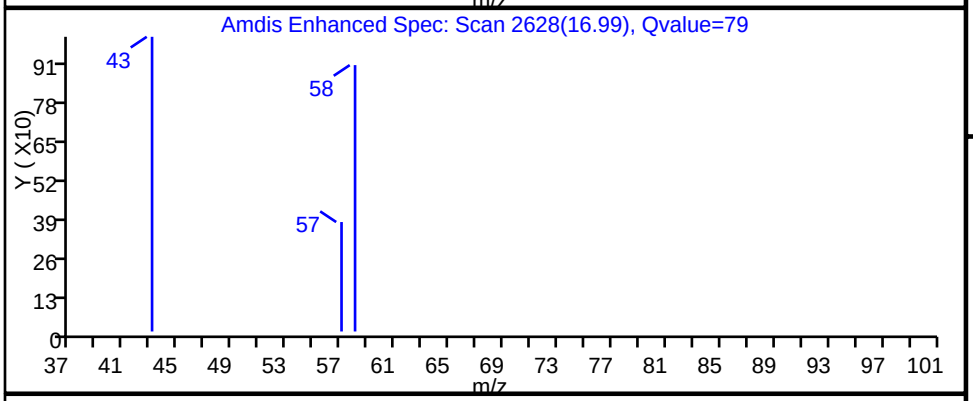
TestAmerica Burlington

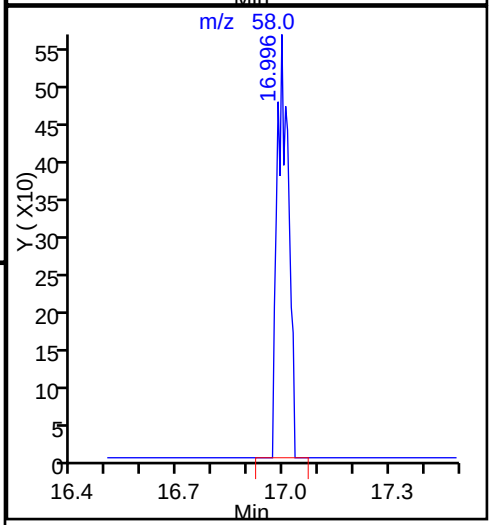
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D		
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11
Client ID:	FR-SS06-092315		
Operator ID:	wrd	ALS Bottle#:	2 Worklist Smp#: 21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

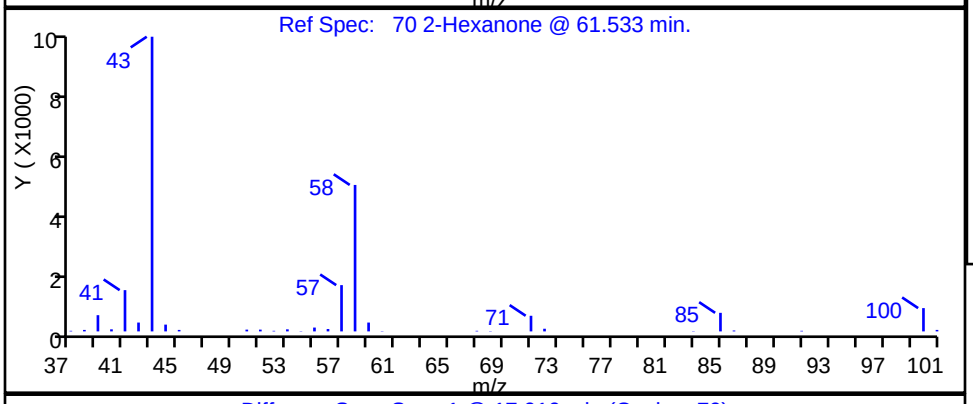
70 2-Hexanone, CAS: 591-78-6

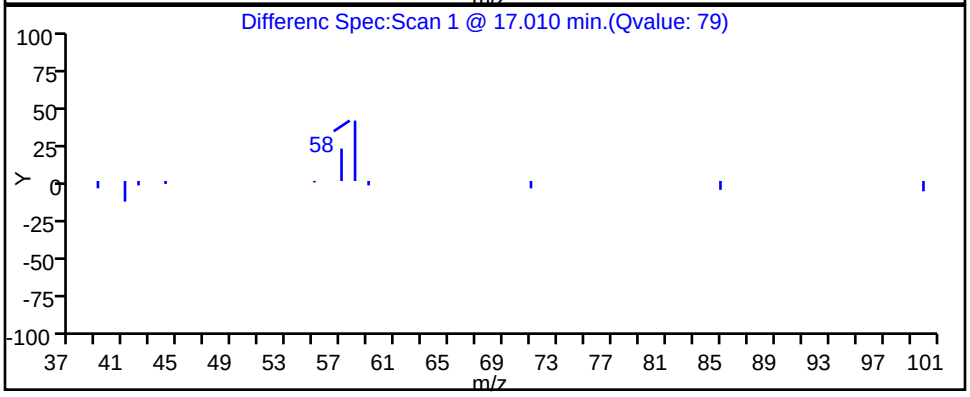












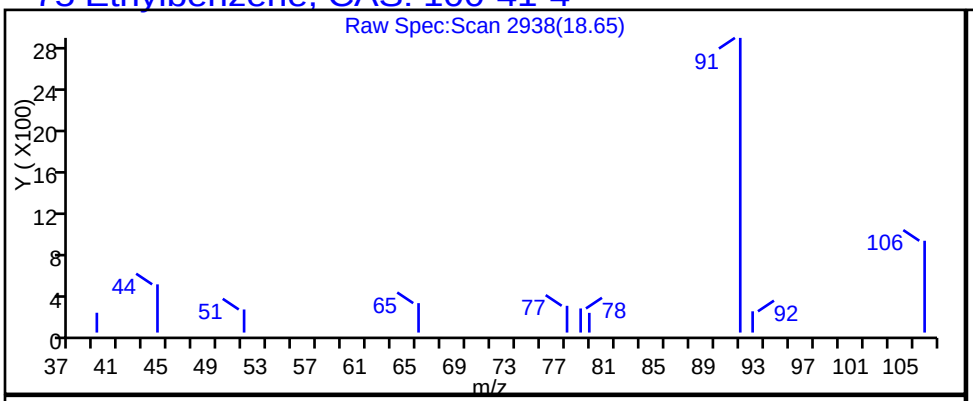
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

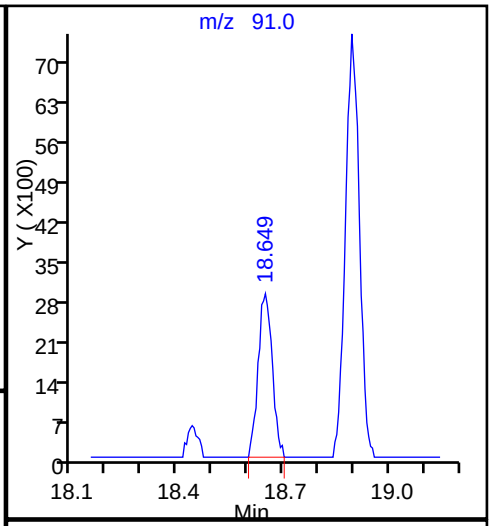
TestAmerica Burlington

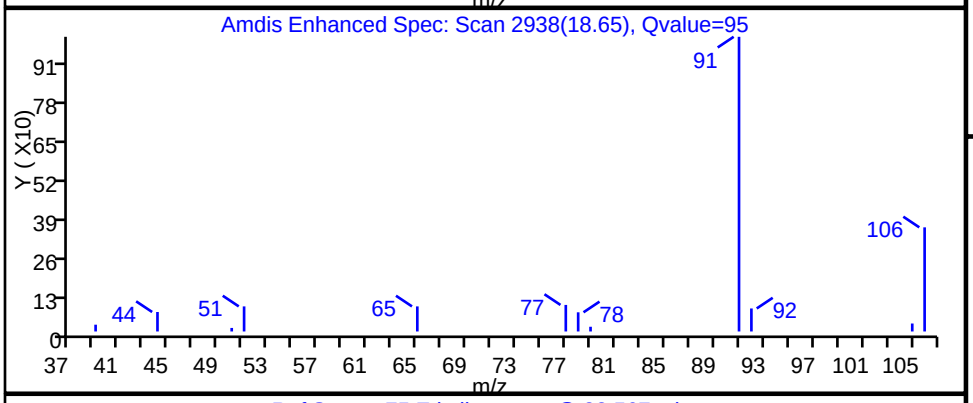
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

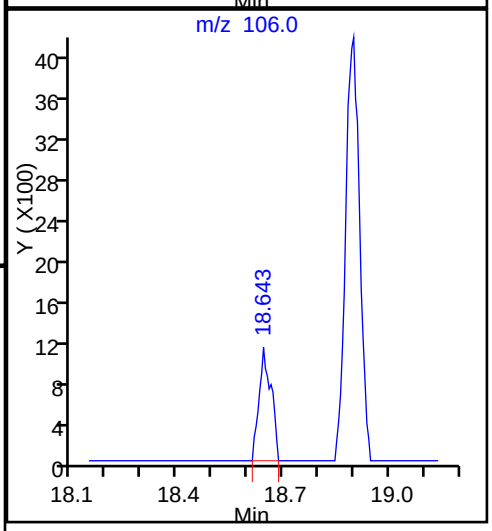
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

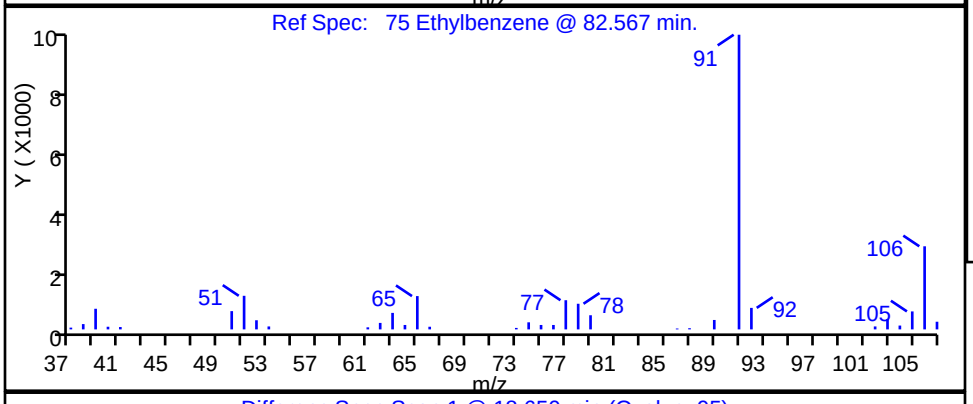
75 Ethylbenzene, CAS: 100-41-4

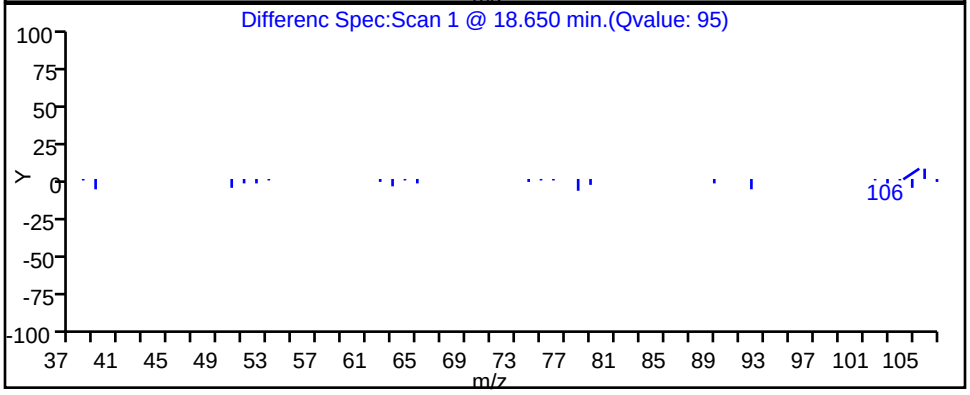












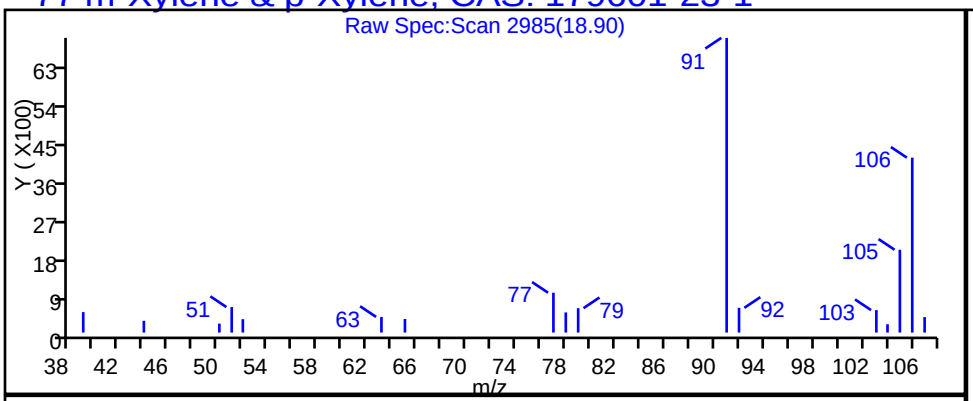
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

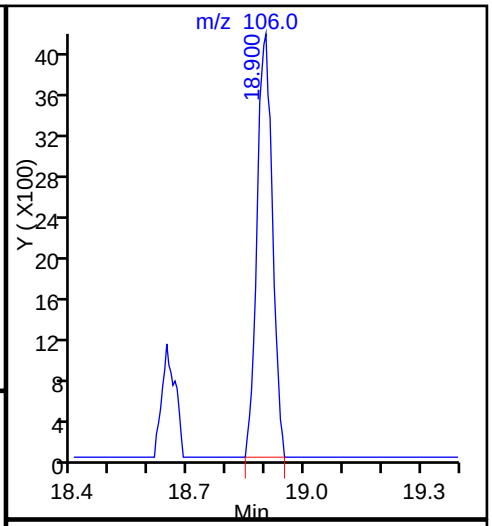
TestAmerica Burlington

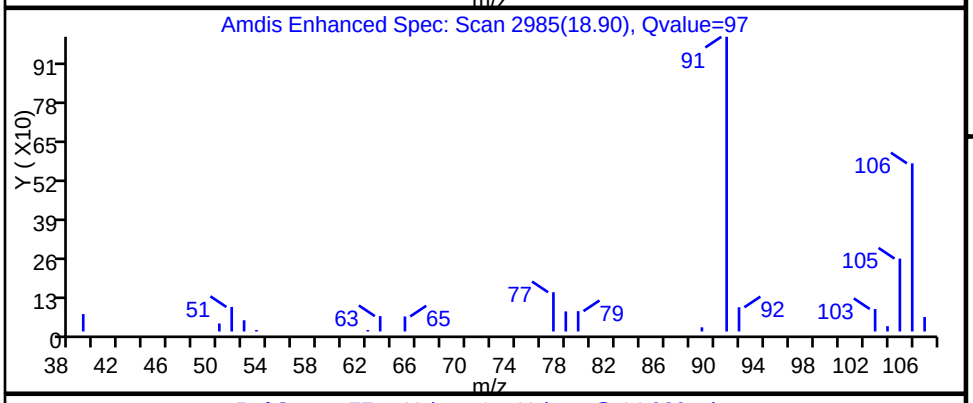
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

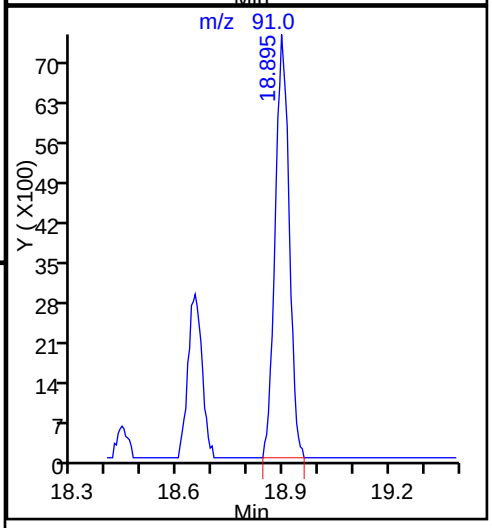
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

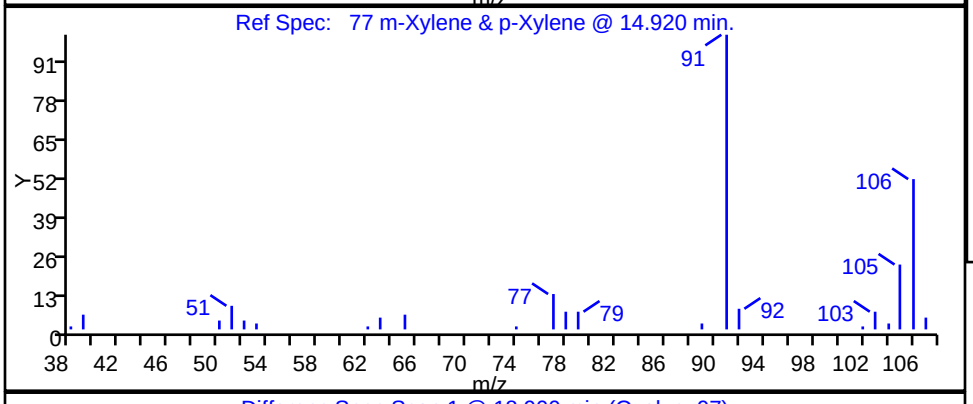
77 m-Xylene & p-Xylene, CAS: 179601-23-1

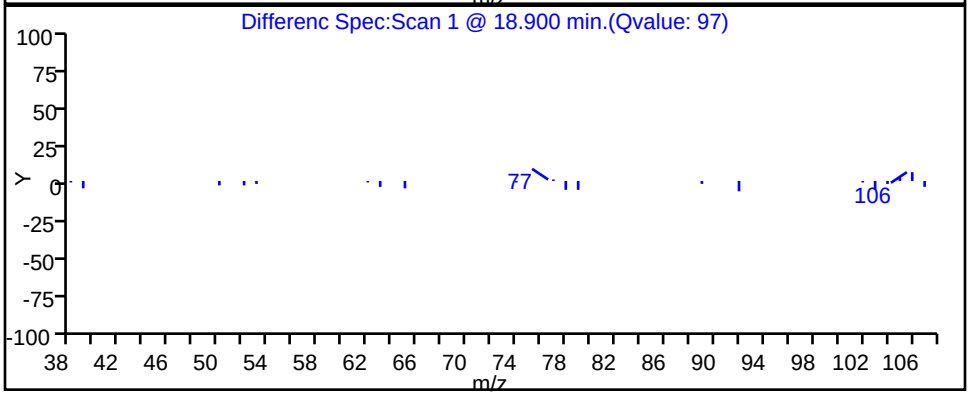












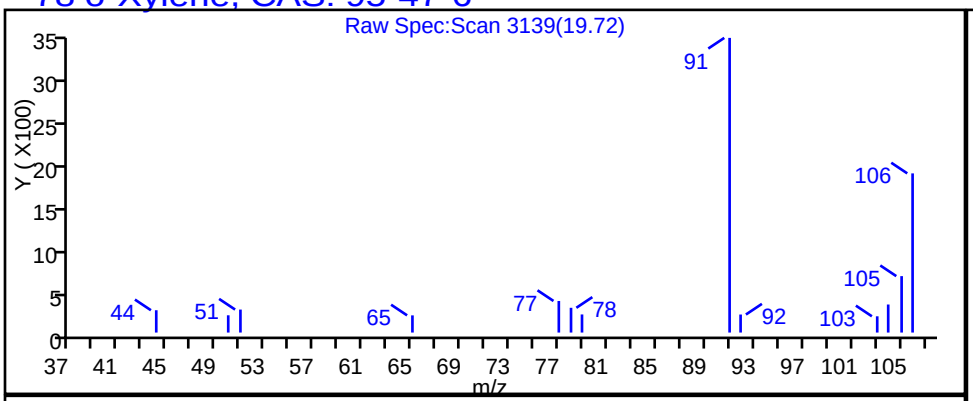
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

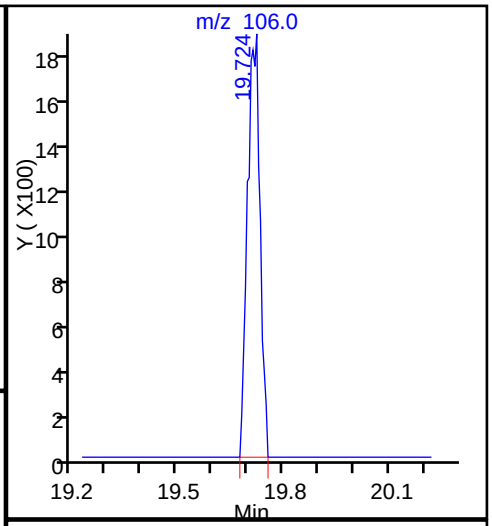
TestAmerica Burlington

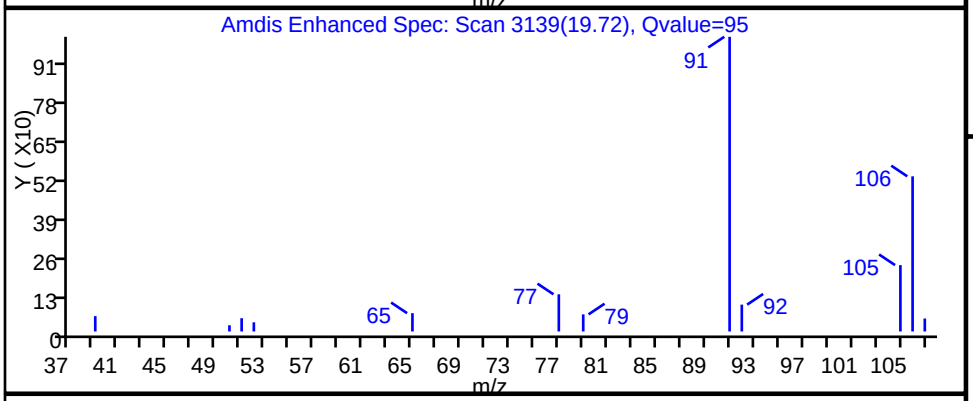
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

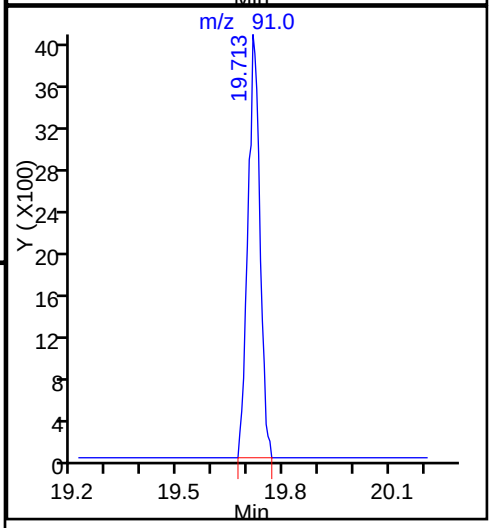
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

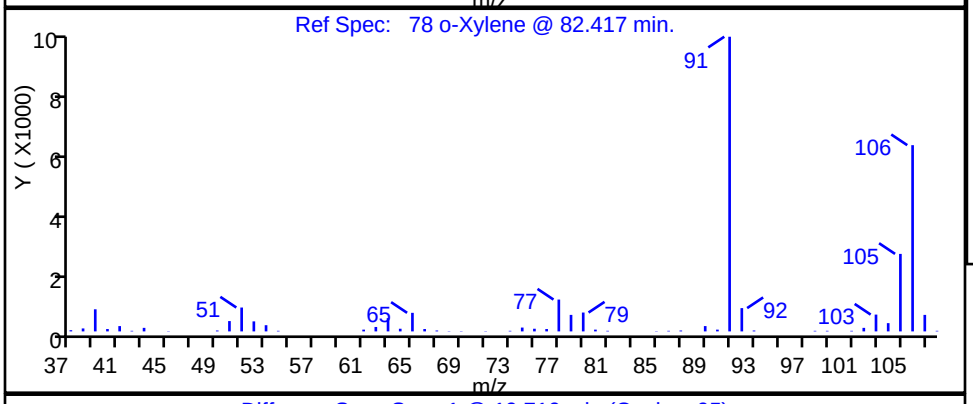
78 o-Xylene, CAS: 95-47-6

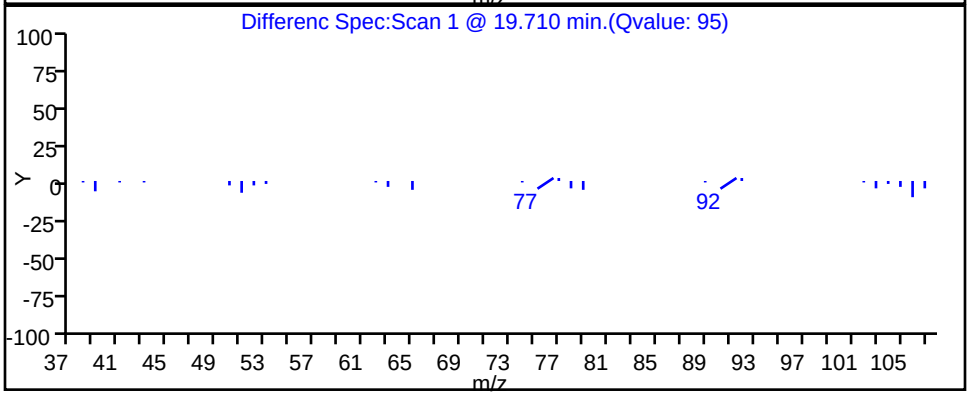












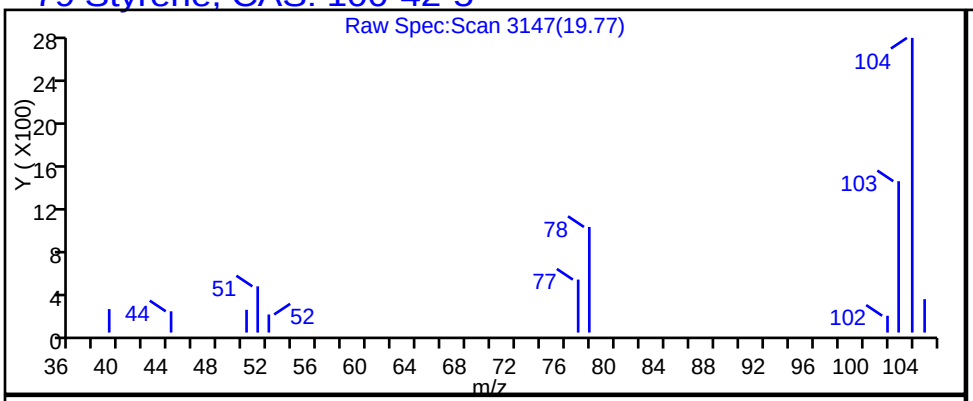
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

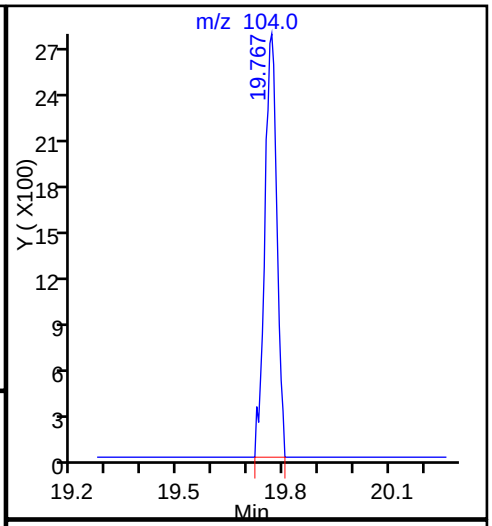
TestAmerica Burlington

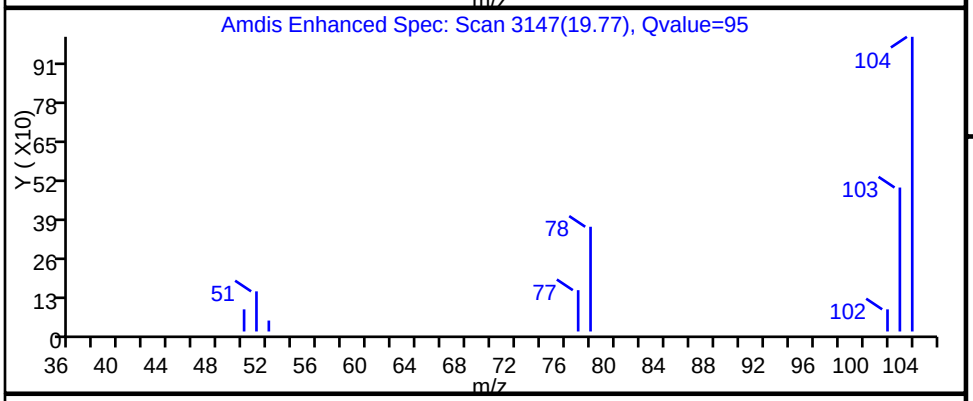
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

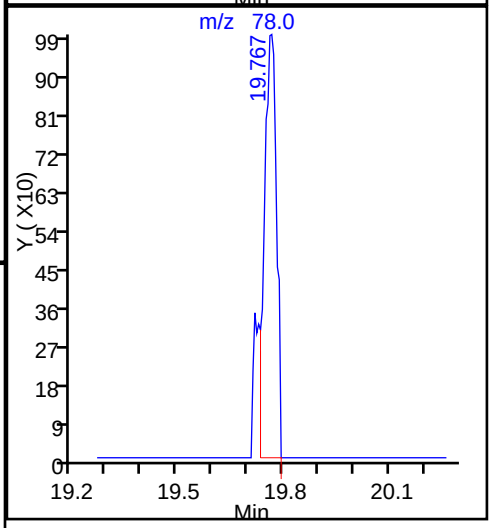
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

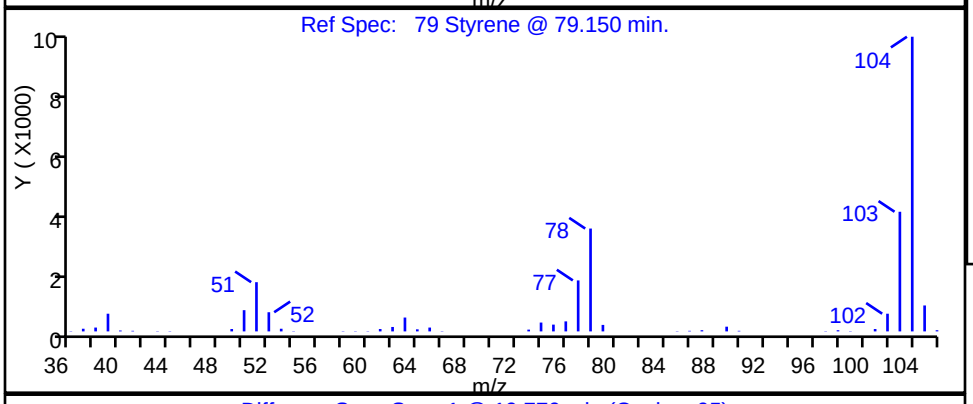
79 Styrene, CAS: 100-42-5

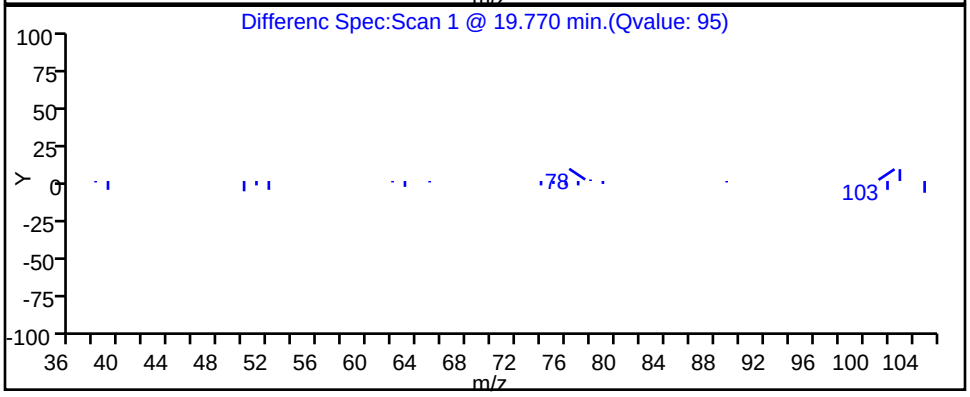












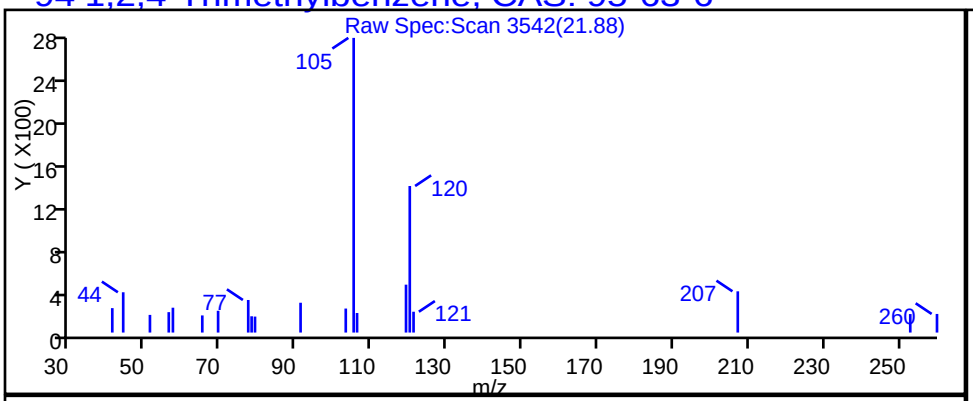
Report Date: 06-Oct-2015 10:36:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

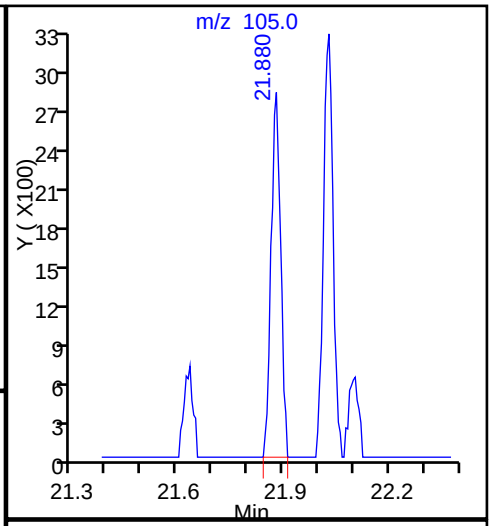
TestAmerica Burlington

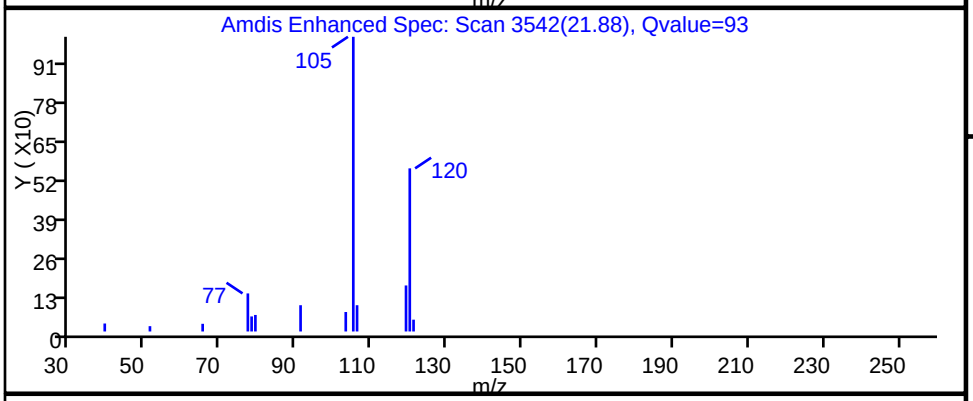
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

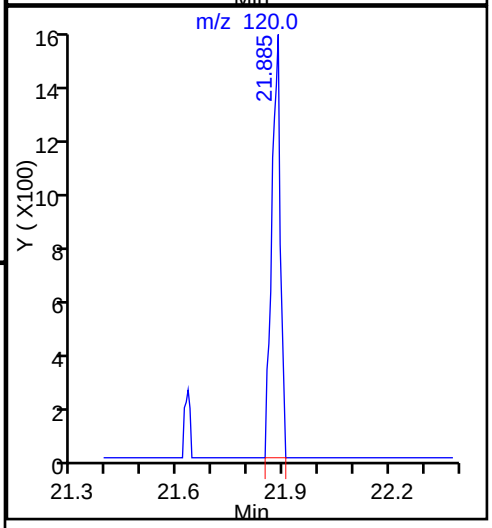
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

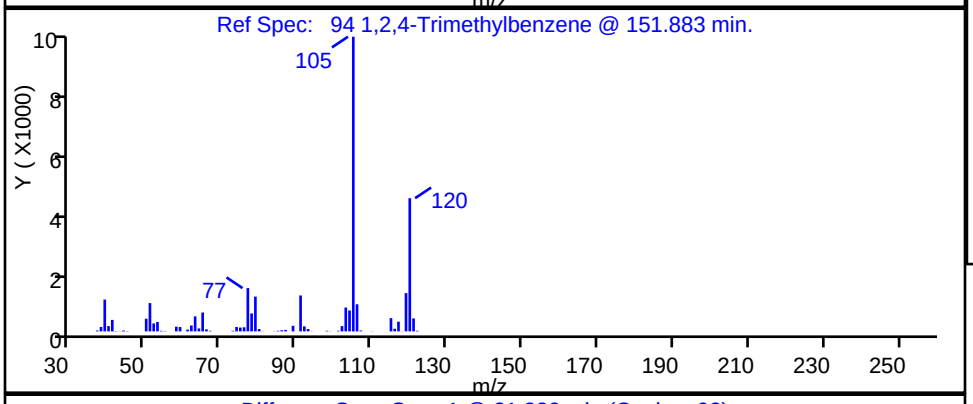
94 1,2,4-Trimethylbenzene, CAS: 95-63-6

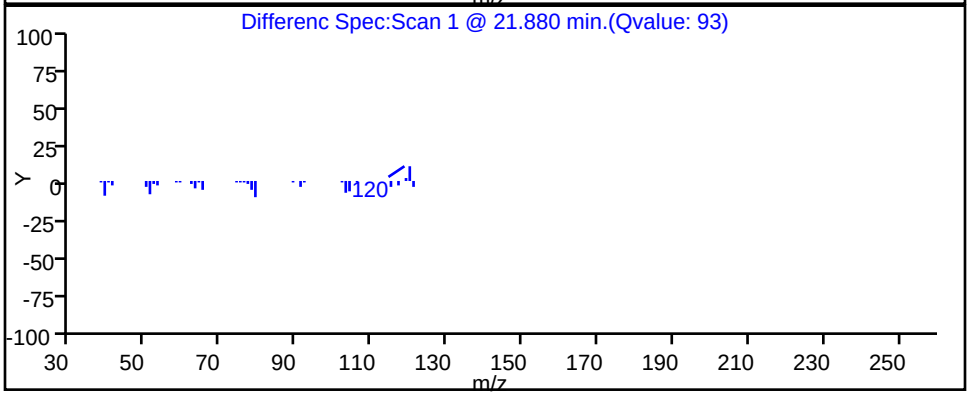












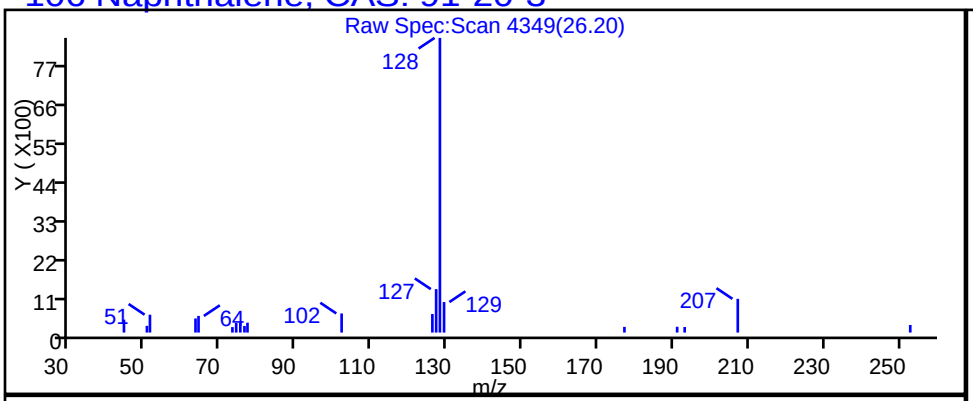
Report Date: 06-Oct-2015 10:36:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

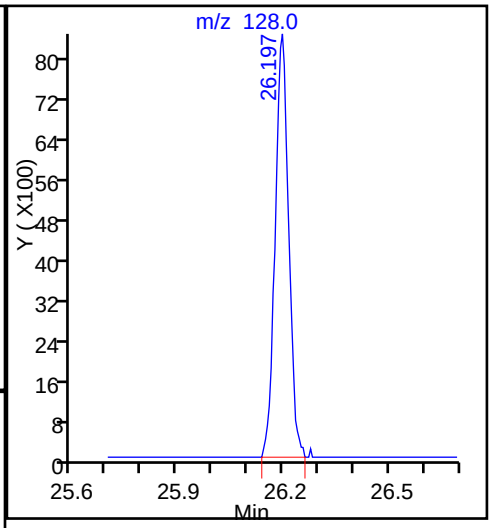
TestAmerica Burlington

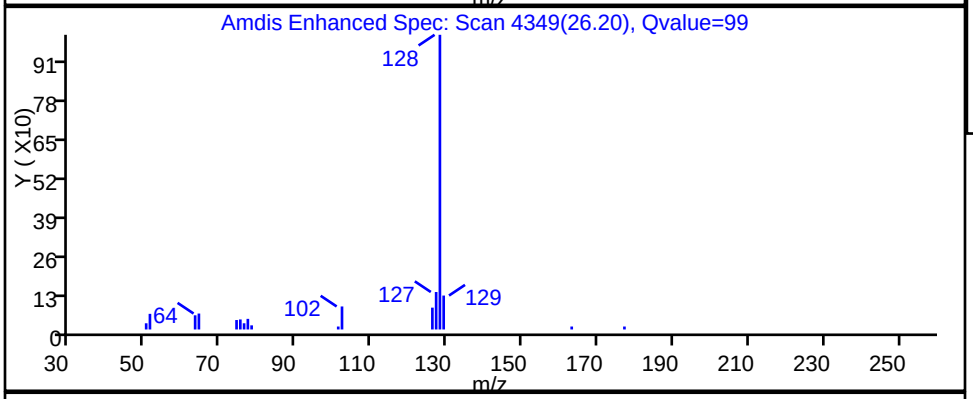
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D

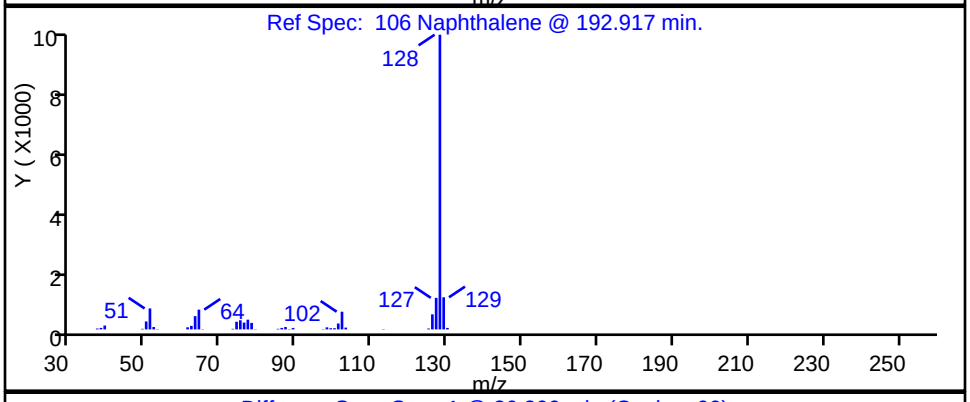
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

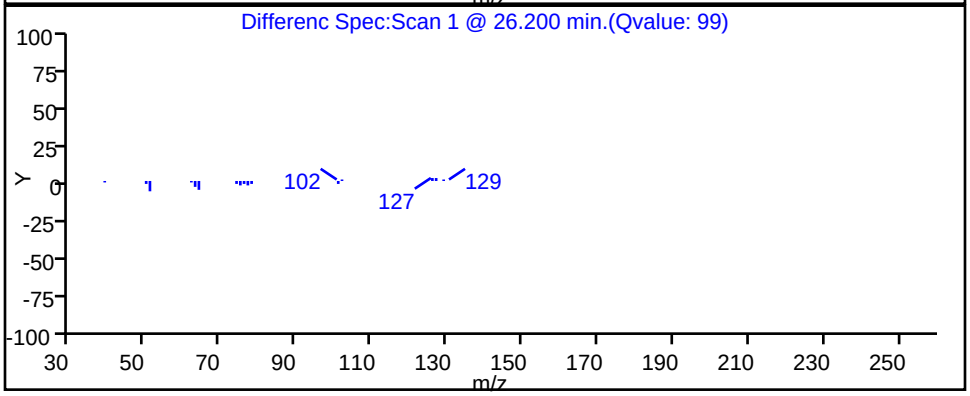
106 Naphthalene, CAS: 91-20-3











Manual Integration/User Assign Peak Report

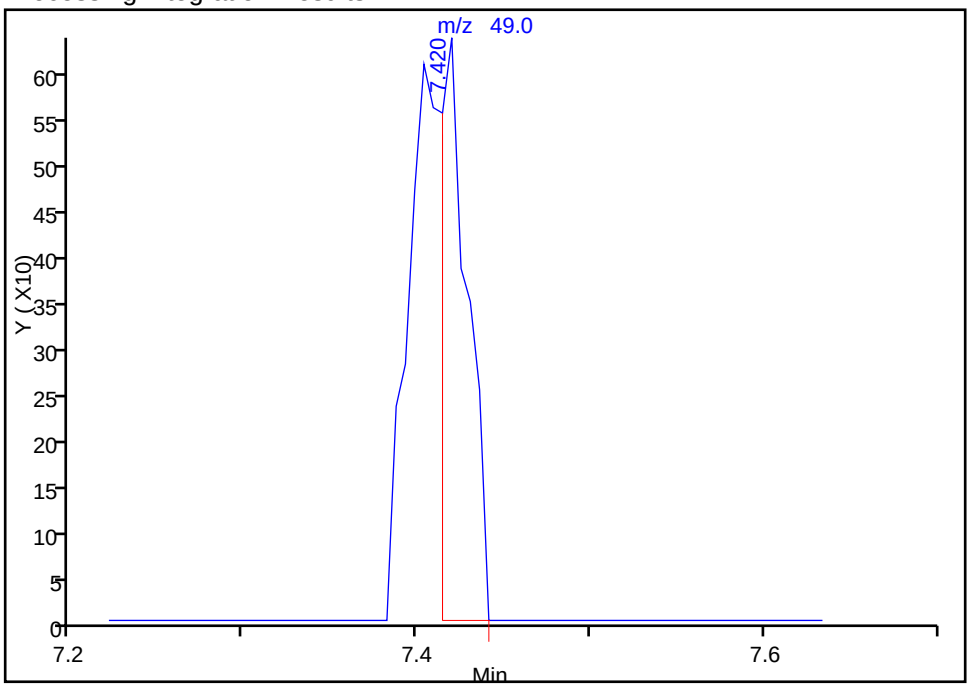
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

26 Methylene Chloride, CAS: 75-09-2

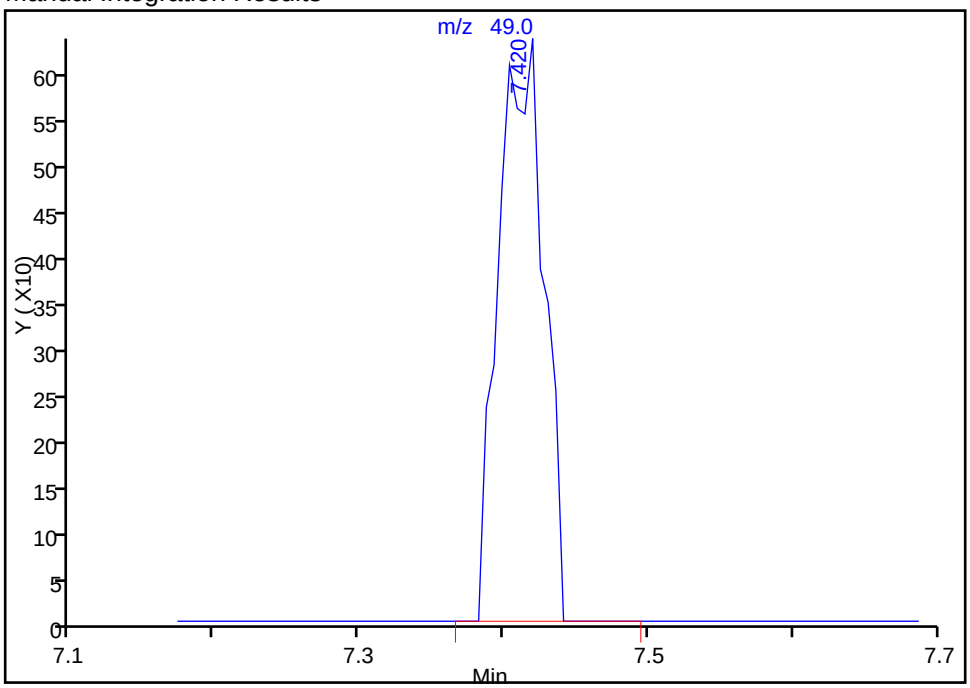
Processing Integration Results

RT: 7.42
Area: 696
Amount: 0.066826
Amount Units: ppb v/v



Manual Integration Results

RT: 7.42
Area: 1384
Amount: 0.132885
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

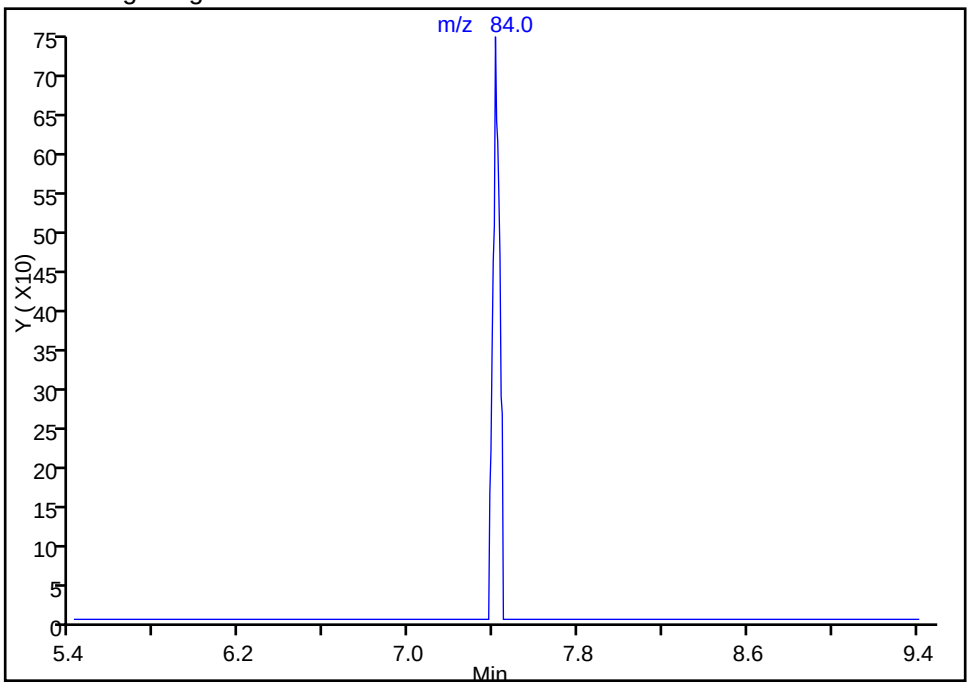
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

26 Methylene Chloride, CAS: 75-09-2

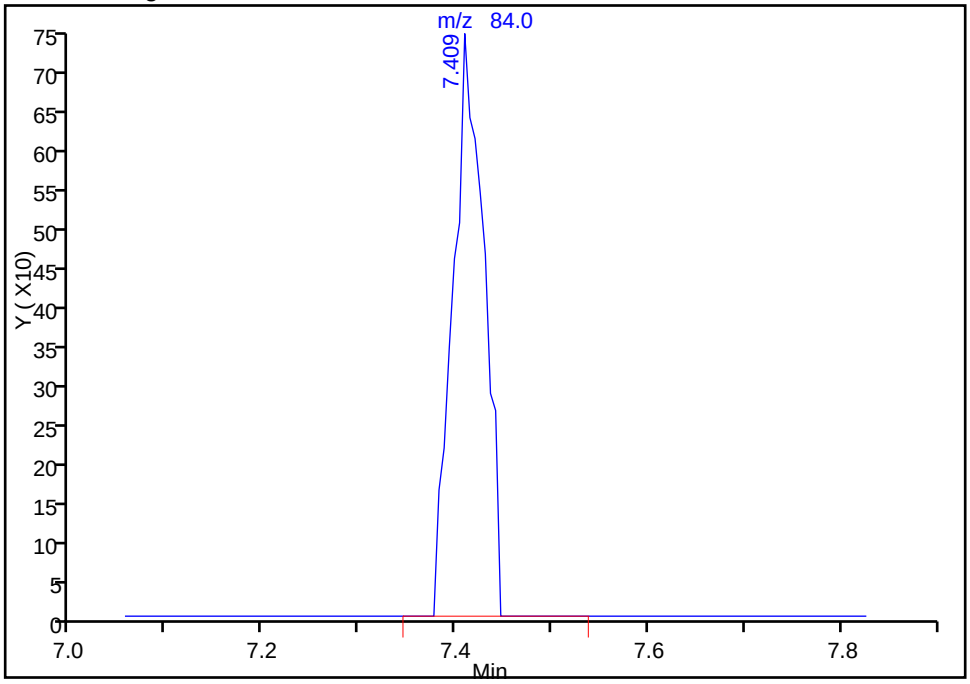
Processing Integration Results

RT: 7.41
Area: 0
Amount: 0.066826
Amount Units: ppb v/v



Manual Integration Results

RT: 7.41
Area: 1684
Amount: 0.132885
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

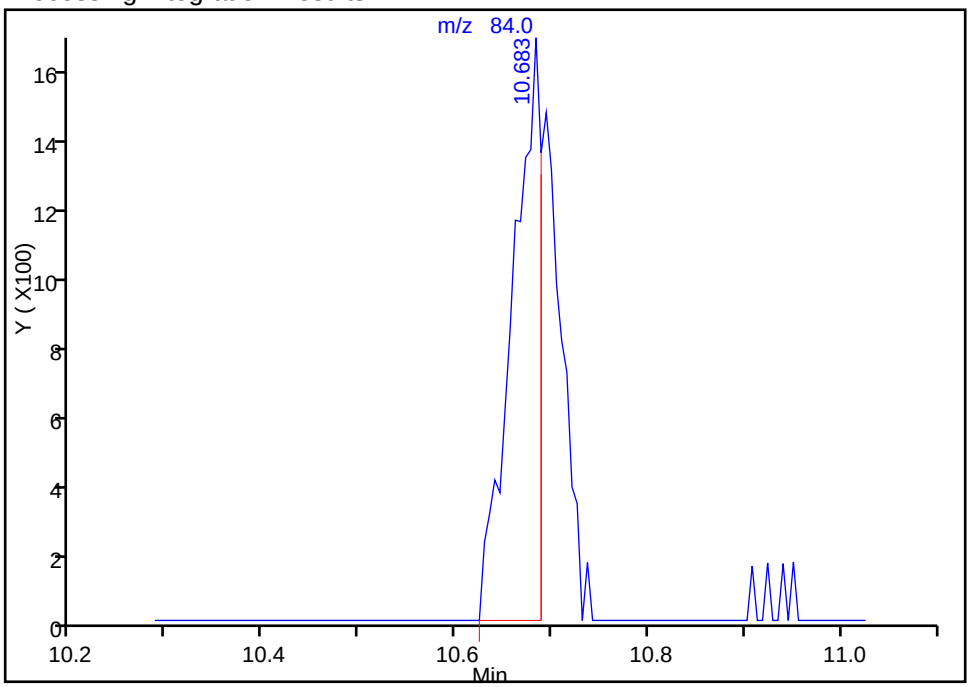
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

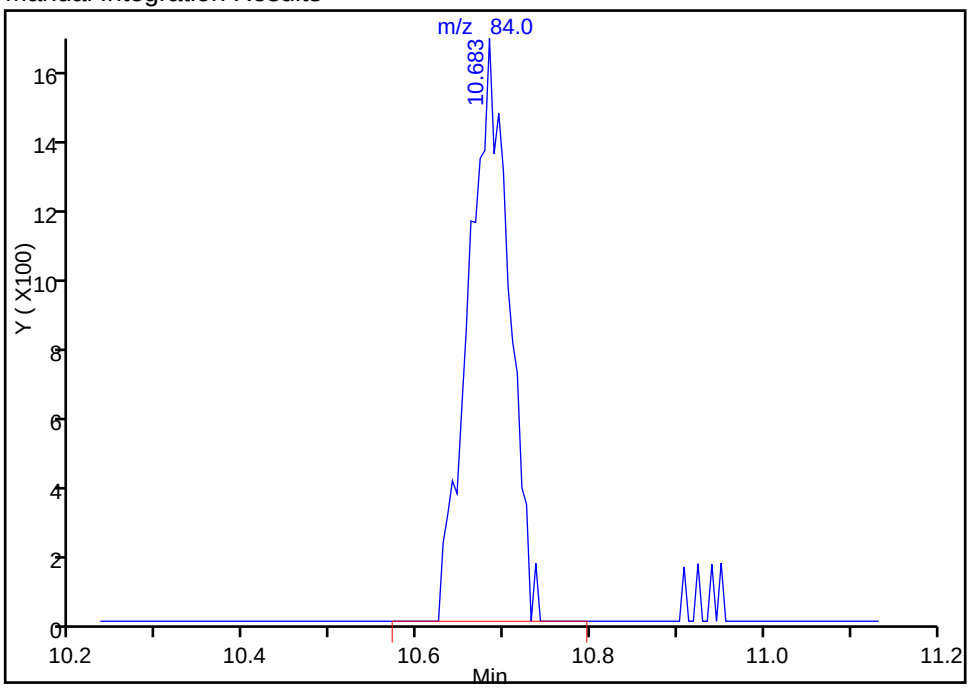
Processing Integration Results

RT: 10.68
Area: 3402
Amount: 0.174008
Amount Units: ppb v/v



Manual Integration Results

RT: 10.68
Area: 5339
Amount: 0.273083
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

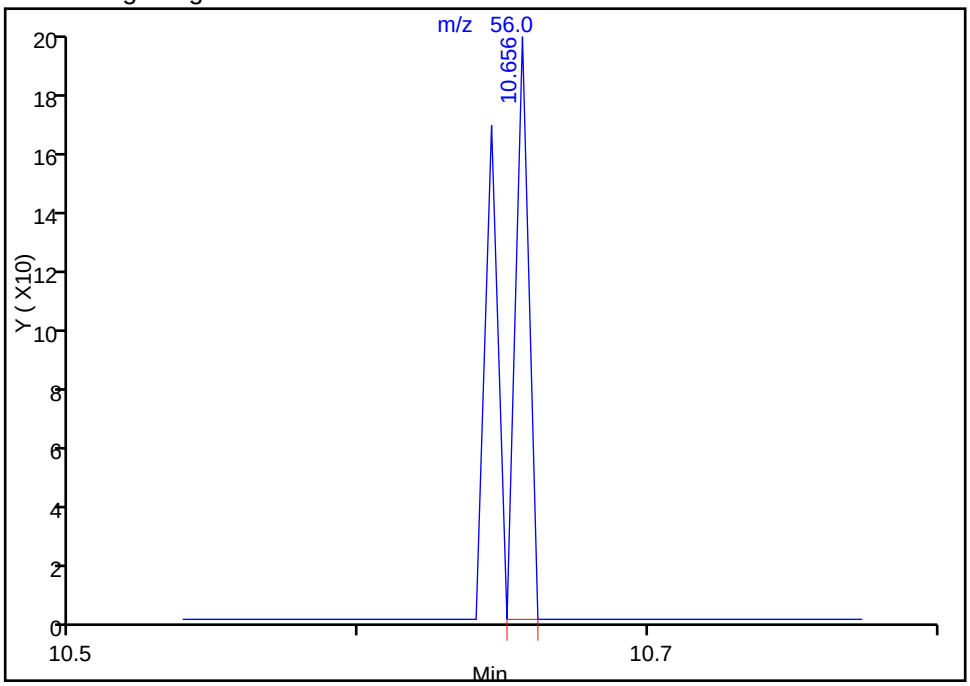
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

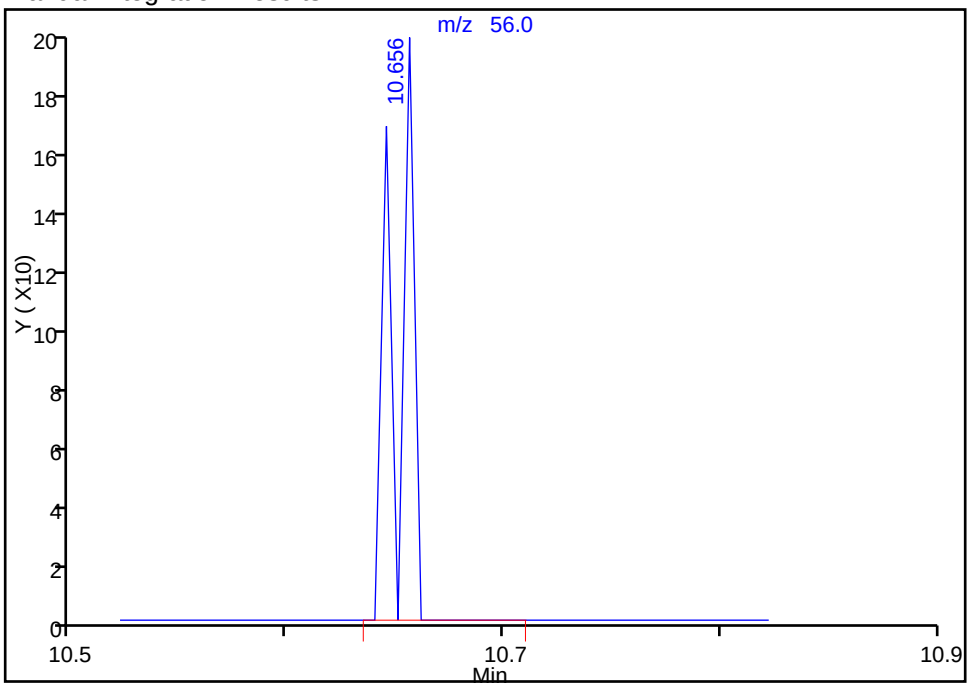
Processing Integration Results

RT: 10.66
Area: 63
Amount: 0.174008
Amount Units: ppb v/v



Manual Integration Results

RT: 10.66
Area: 117
Amount: 0.273083
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

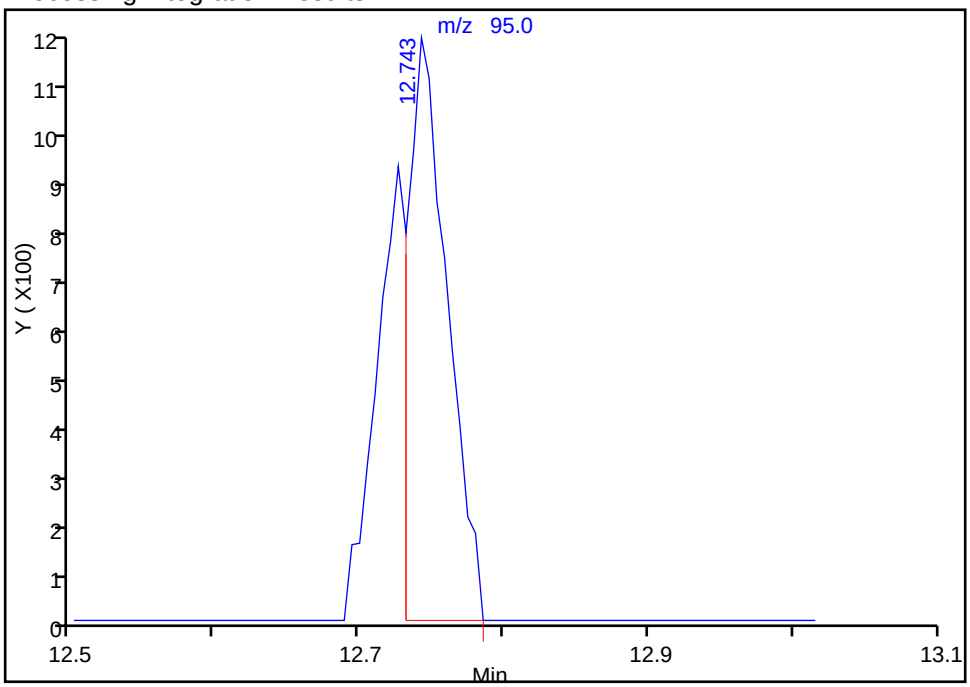
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6

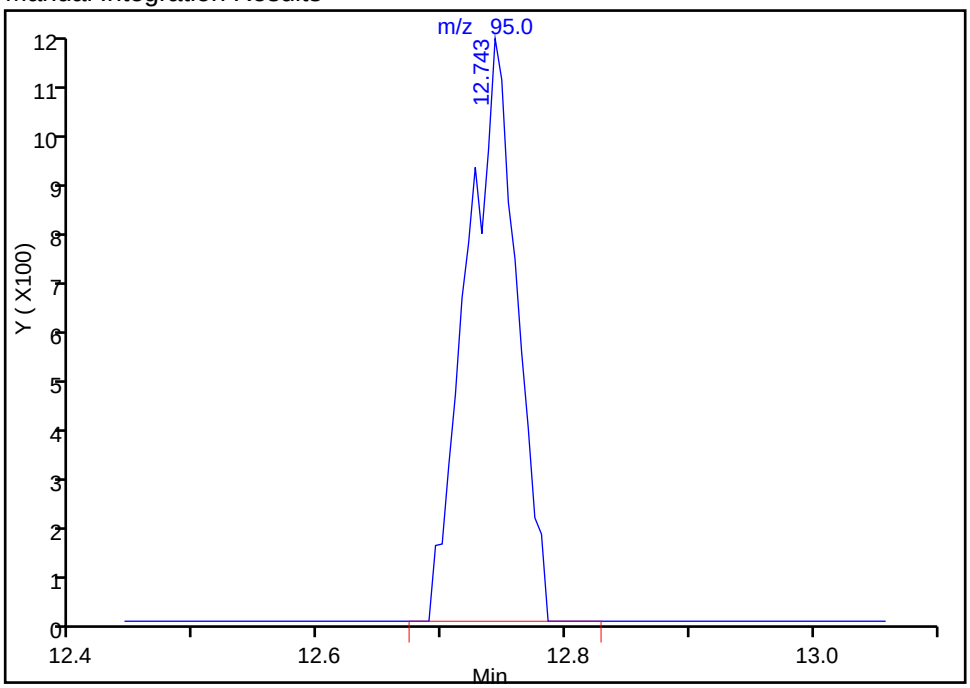
Processing Integration Results

RT: 12.74
Area: 2216
Amount: 0.096431
Amount Units: ppb v/v



Manual Integration Results

RT: 12.74
Area: 3313
Amount: 0.144168
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

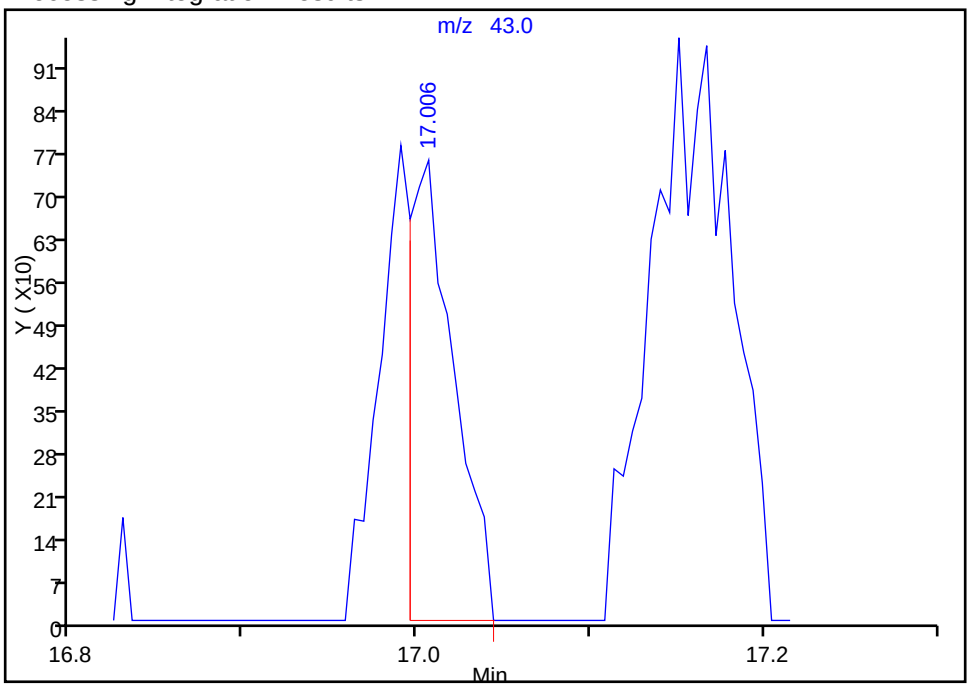
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

70 2-Hexanone, CAS: 591-78-6

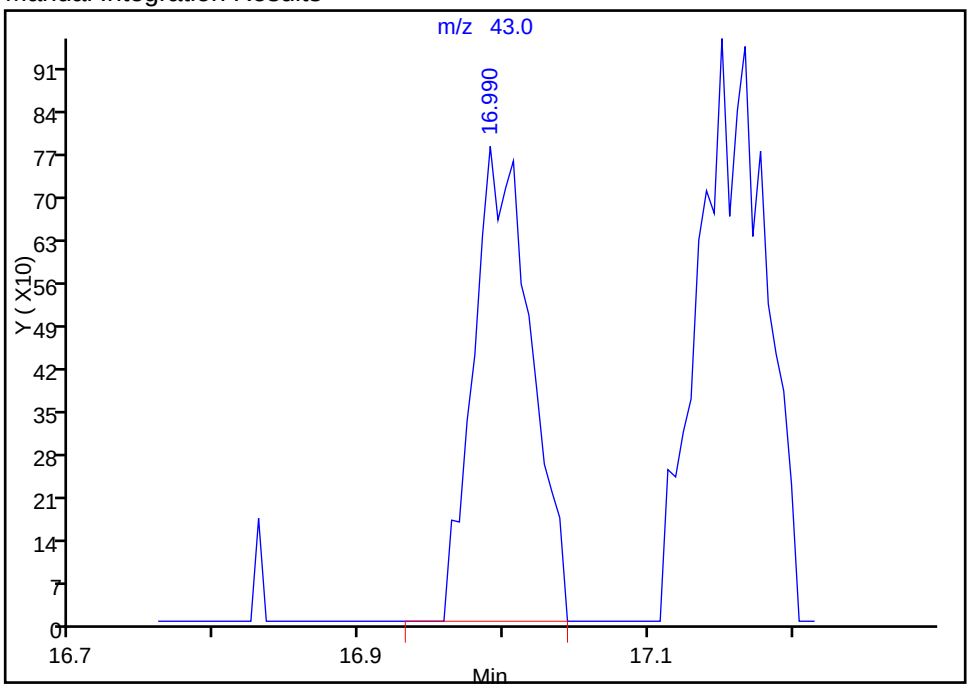
Processing Integration Results

RT: 17.01
Area: 1350
Amount: 0.045607
Amount Units: ppb v/v



Manual Integration Results

RT: 16.99
Area: 2156
Amount: 0.072836
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

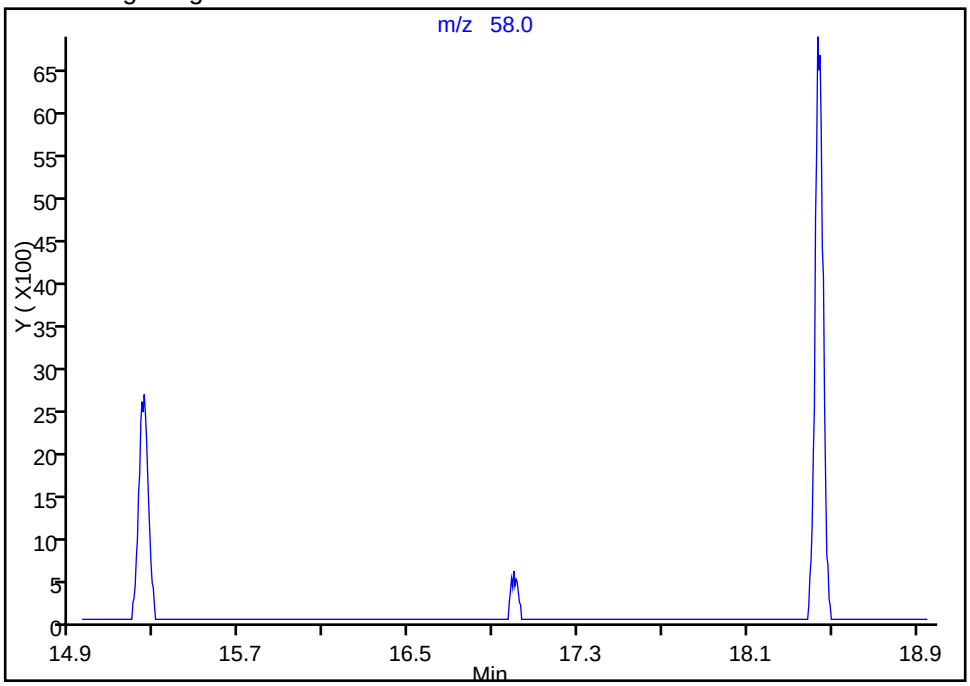
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_21.D				
Injection Date:	06-Oct-2015 01:05:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-11	Lab Sample ID:	200-29972-11		
Client ID:	FR-SS06-092315				
Operator ID:	wrd	ALS Bottle#:	2	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

70 2-Hexanone, CAS: 591-78-6

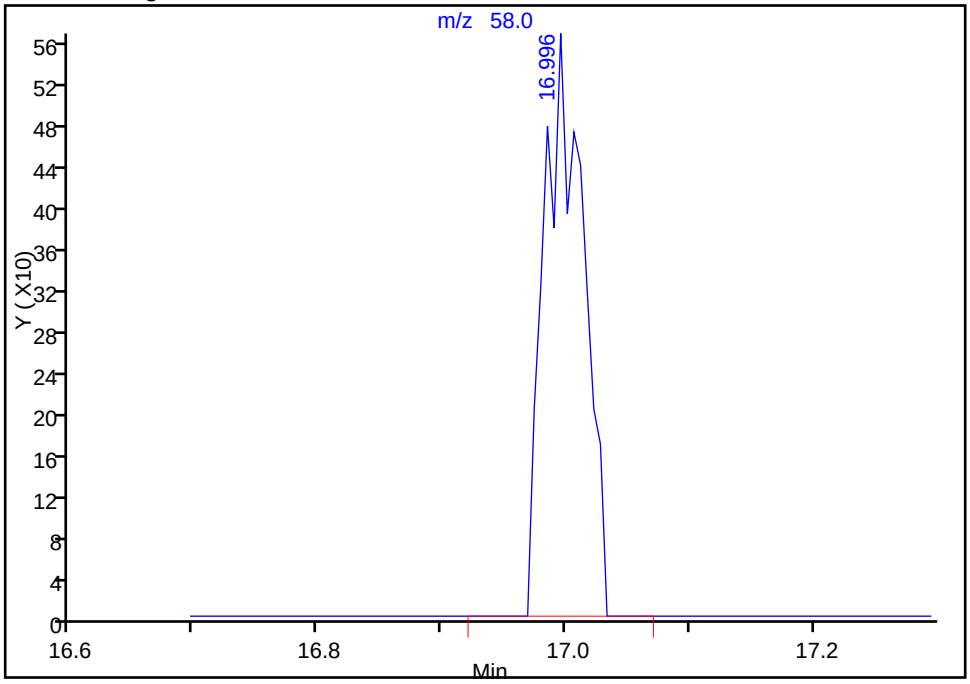
Processing Integration Results

RT: 16.95
Area: 0
Amount: 0.045607
Amount Units: ppb v/v



Manual Integration Results

RT: 17.00
Area: 1260
Amount: 0.072836
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 10:36:57
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 | Lab Sample ID: 200-29972-12

Matrix: Air | Lab File ID: 15991_017.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 23:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.69		0.50	0.080
75-45-6	Freon 22	86.47	0.59		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.093
106-97-8	n-Butane	58.12	5.4		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	*Trichlorofluoromethane*	*137.37*	*49*	*E*	*0.20*	*0.038*
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.48		0.20	0.036
67-64-1	Acetone	58.08	7.0		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	4.6	J	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.045	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.27	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.59		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.16	J	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.71		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.33		0.20	0.046
110-82-7	Cyclohexane	84.16	0.13	J	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.092		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.23		0.20	0.039
71-43-2	Benzene	78.11	0.46		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.39		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 | Lab Sample ID: 200-29972-12

Matrix: Air | Lab File ID: 15991_017.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 23:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.16	J	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	1.1		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.043	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.15	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.51		0.50	0.071
95-47-6	Xylene, o-	106.17	0.18	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.69	J	0.70	0.037
100-42-5	Styrene	104.15	0.076	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.12	J	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.037	J	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 Lab Sample ID: 200-29972-12

Matrix: Air Lab File ID: 15991_017.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 23:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 | Lab Sample ID: 200-29972-12

Matrix: Air | Lab File ID: 15991_017.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 23:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.4		2.5	0.40
75-45-6	Freon 22	86.47	2.1		1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.2		1.0	0.19
106-97-8	n-Butane	58.12	13		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	*Trichlorofluoromethane*	*137.37*	*270*	*E*	*1.1*	*0.21*
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	1.9		0.79	0.14
67-64-1	Acetone	58.08	17		12	2.0
67-63-0	Isopropyl alcohol	60.10	11	J	12	2.4
75-15-0	Carbon disulfide	76.14	0.14	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	0.95	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	2.1		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.66	J	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	2.1		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.8		1.1	0.25
110-82-7	Cyclohexane	84.16	0.45	J	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.58		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.1		0.93	0.18
71-43-2	Benzene	78.11	1.5		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	1.6		0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 | Lab Sample ID: 200-29972-12

Matrix: Air | Lab File ID: 15991_017.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 23:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.66	J	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	4.0		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.29	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.66	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.2		2.2	0.31
95-47-6	Xylene, o-	106.17	0.79	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	3.0	J	3.0	0.16
100-42-5	Styrene	104.15	0.32	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.61	J	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	0.20	J	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 Lab Sample ID: 200-29972-12

Matrix: Air Lab File ID: 15991_017.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 23:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d
Lims ID: 200-29972-A-12 Lab Sample ID: 200-29972-12
Client ID: FR-IA06-092315
Sample Type: Client
Inject. Date: 29-Sep-2015 23:40:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-017
Misc. Info.: 29972-12
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 13:07:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	99	29929	0.6885	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	95	10277	0.5865	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	4.998	5.009	-0.011	98	5033	0.5928	
6 Butane	43	5.282	5.282	0.000	96	66918	5.41	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	98	2394052	48.5	E
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.668	8.663	0.005	96	6845	0.4833	
22 Acetone	43	8.946	8.935	0.011	98	107613	7.03	
23 Carbon disulfide	76	9.166	9.160	0.006	94	1533	0.0450	M
24 Isopropyl alcohol	45	9.224	9.219	0.005	97	55995	4.58	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.931	9.925	0.006	85	3073	0.2736	M
28 2-Methyl-2-propanol	59	10.123	10.112	0.011	82	2140	0.0991	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	89	8769	0.5885	
34 1,1-Dichloroethane	63	11.439	11.428	0.011	95	3601	0.1636	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.653	0.006	97	5052	0.7133	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	76	136886	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83	13.221	13.215	0.006	15	1712	0.0507	M
43 Cyclohexane	84	13.510	13.509	0.001	89	2420	0.1306	M
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	95	12921	0.3252	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.782	13.782	0.000	92	4008	0.0917	
46 Isooctane	57	14.189	14.183	0.006	93	11678	0.2326	
47 Benzene	78	14.253	14.253	0.000	95	20028	0.4623	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	98	8030	0.3861	
49 n-Heptane	43	14.526	14.531	-0.005	75	2534	0.1620	M
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	640049	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
65 Toluene	92	17.955	17.960	-0.005	92	36369	1.06	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166	18.988	18.987	0.001	86	1769	0.0430	M
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.6940	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	590870	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.898	20.897	0.001	97	11705	0.1531	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	15846	0.5132	
79 o-Xylene	106	21.807	21.801	0.006	97	5506	0.1809	
80 Styrene	104	21.834	21.839	-0.005	92	3626	0.0760	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.352	-0.005	88	1876	0.0201	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.979	22.973	0.006	96	2837	0.0253	
88 4-Ethyltoluene	105	23.139	23.144	-0.005	97	2907	0.0282	M
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	92	3208	0.0360	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	95	10925	0.1237	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	94	4046	0.0371	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	92	2403	0.0333	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128		28.767				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003	Amount Added:	20.00	Units: mL	Run Reagent

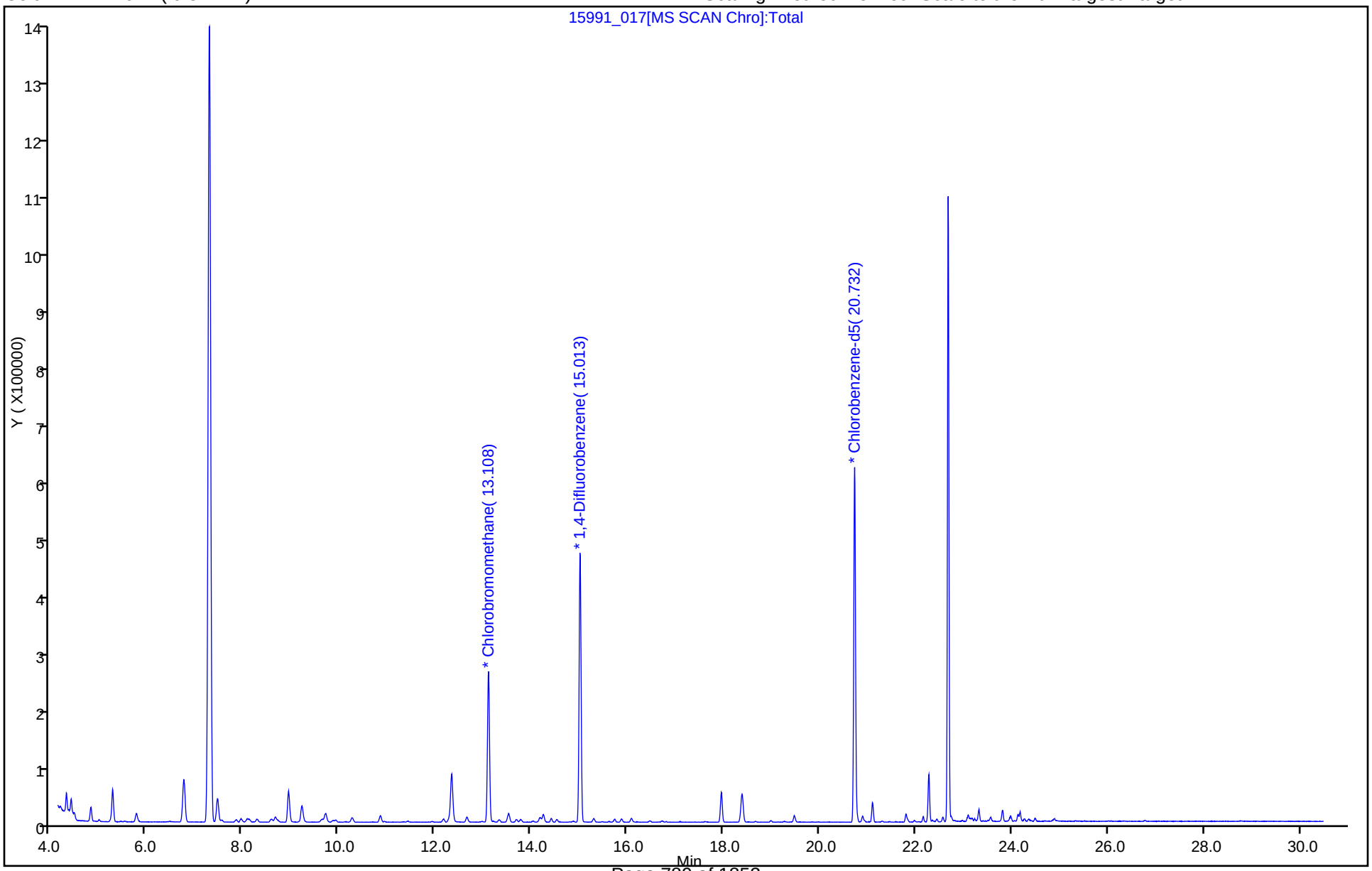
Report Date: 30-Sep-2015 14:17:50 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12	Worklist Smp#:	17
Client ID:	FR-IA06-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

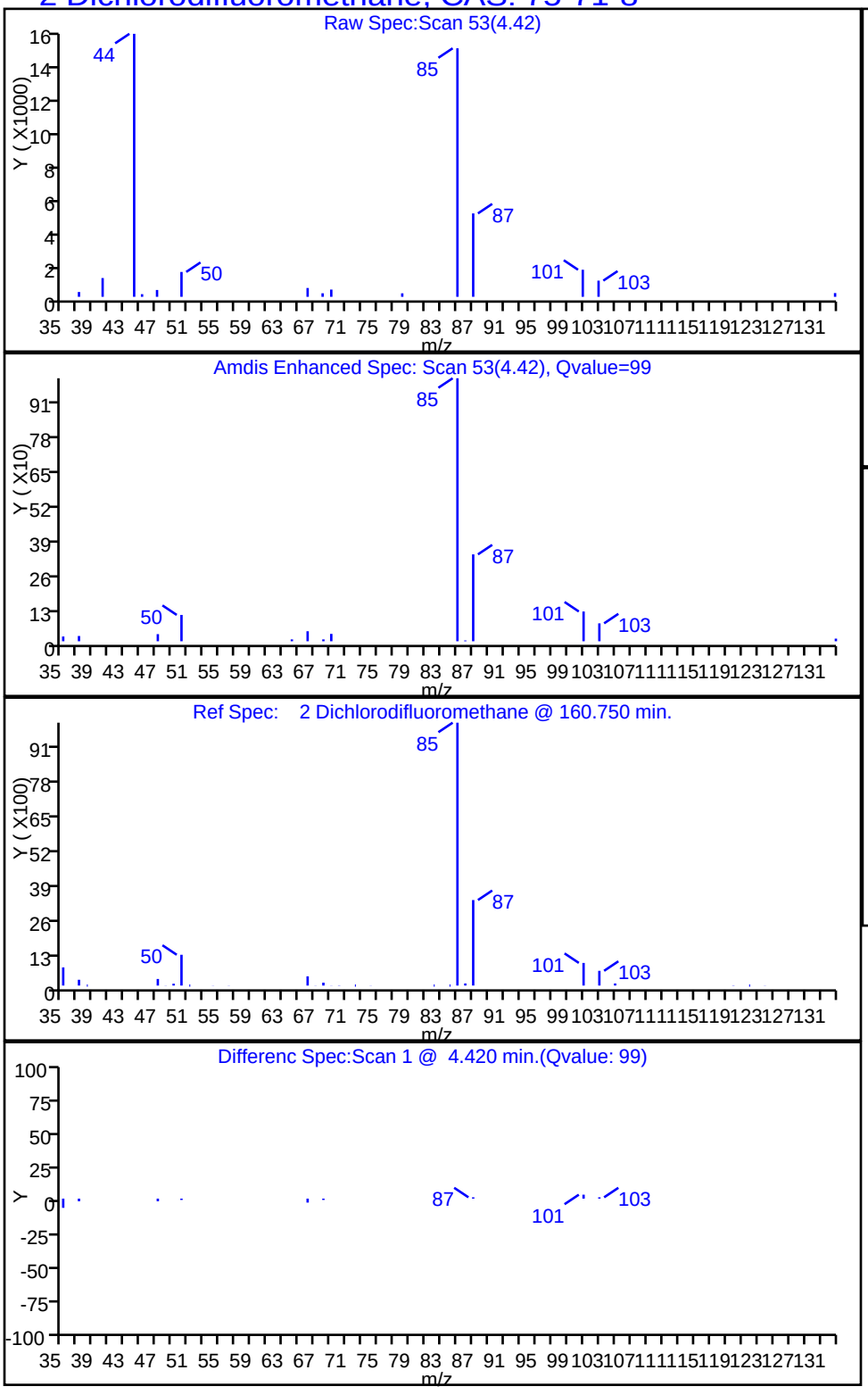


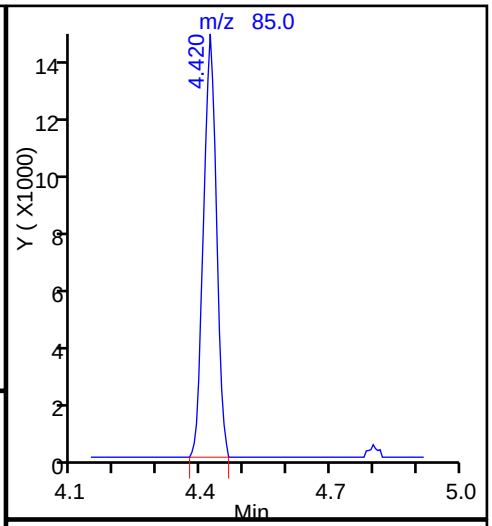
Report Date: 30-Sep-2015 14:17:50 Chrom Revision: 2.2 23-Jul-2015 08:26:08

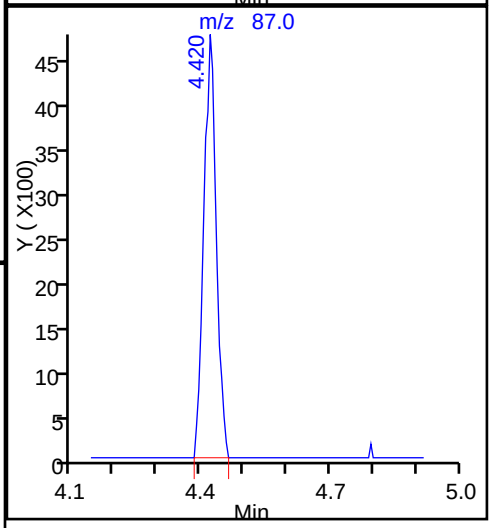
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8







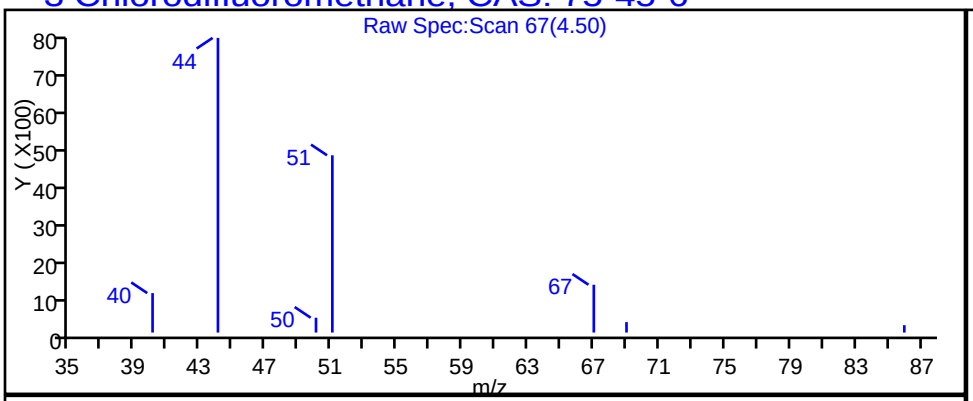
Report Date: 30-Sep-2015 14:17:50 Chrom Revision: 2.2 23-Jul-2015 08:26:08

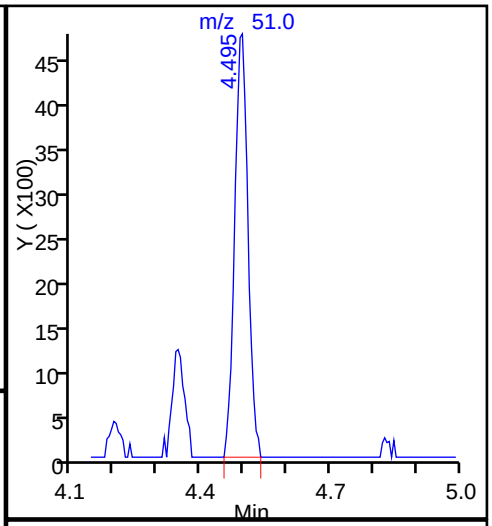
TestAmerica Burlington

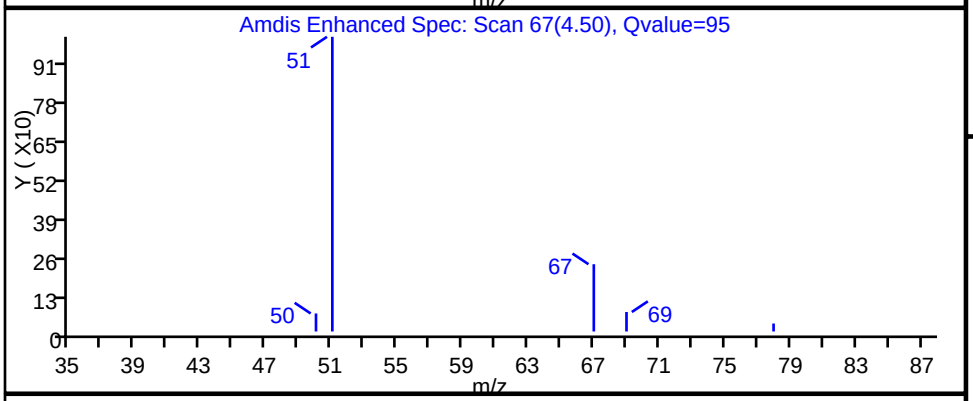
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

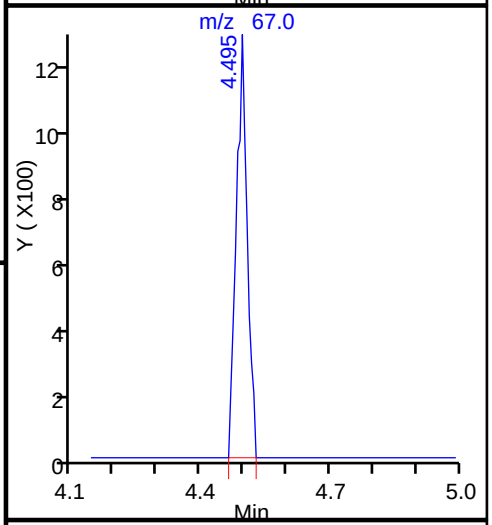
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

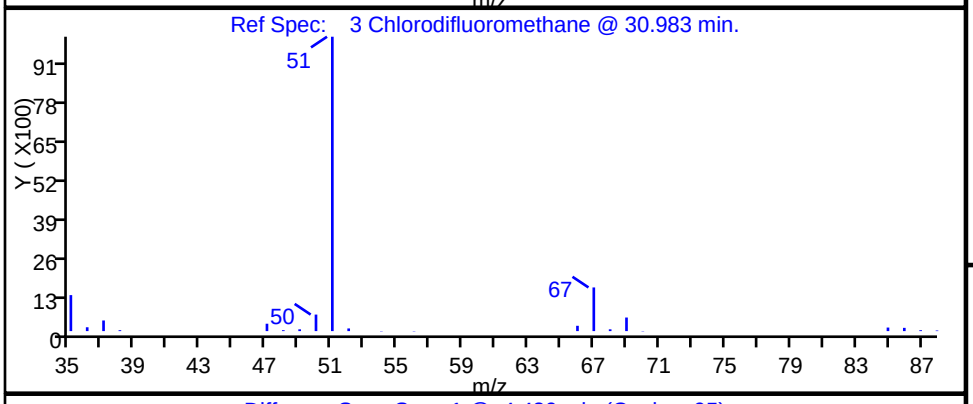
3 Chlorodifluoromethane, CAS: 75-45-6

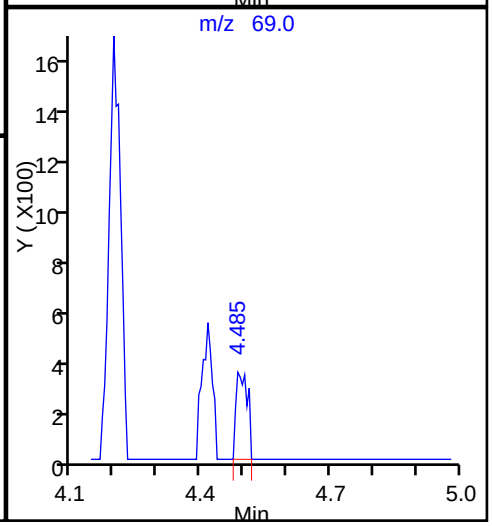


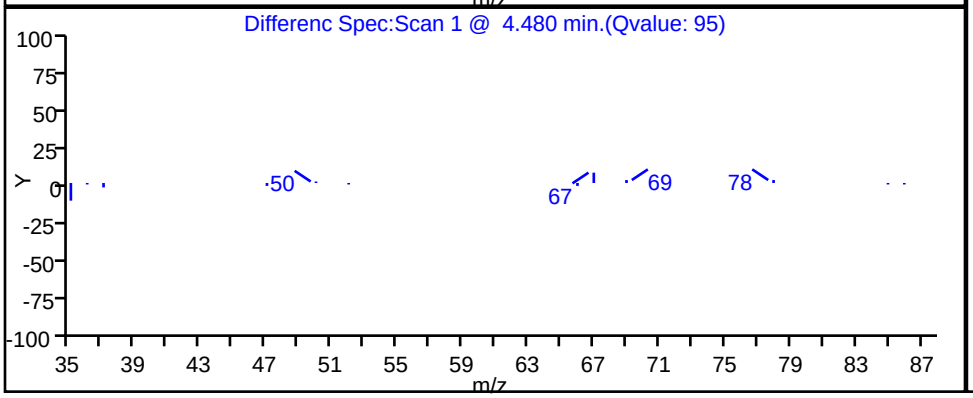












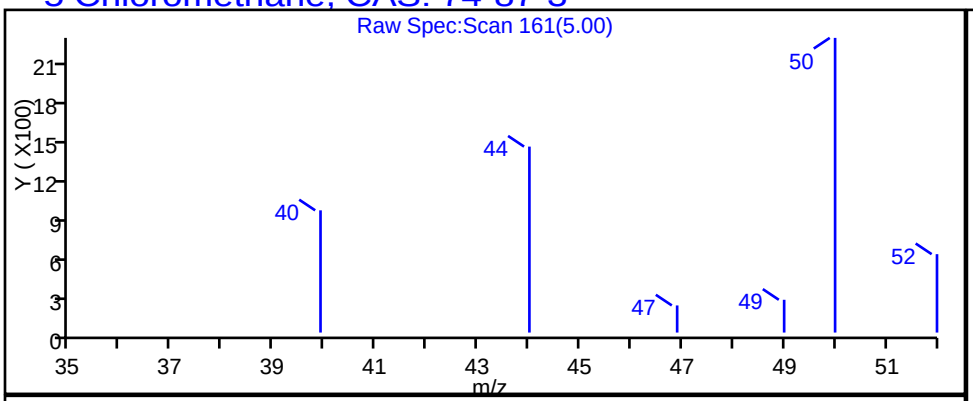
Report Date: 30-Sep-2015 14:17:50 Chrom Revision: 2.2 23-Jul-2015 08:26:08

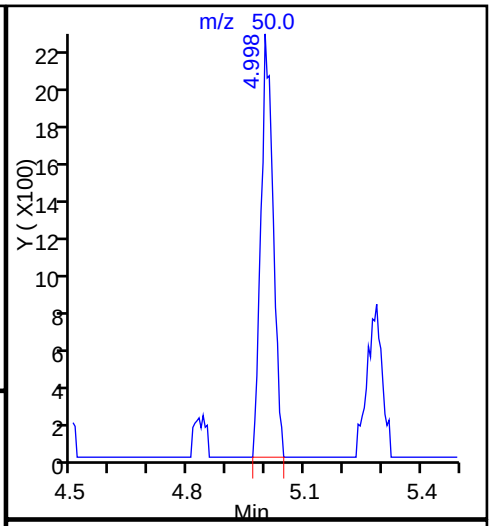
TestAmerica Burlington

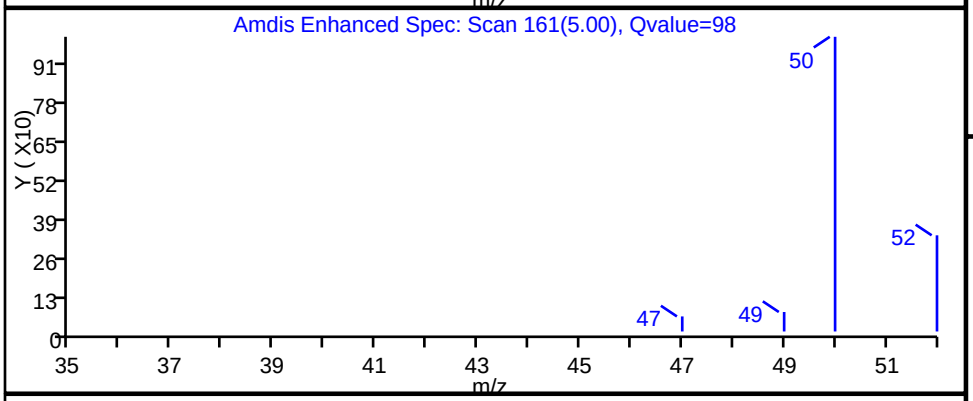
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

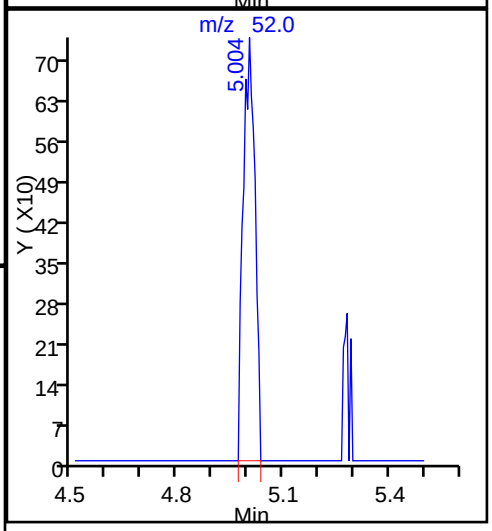
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

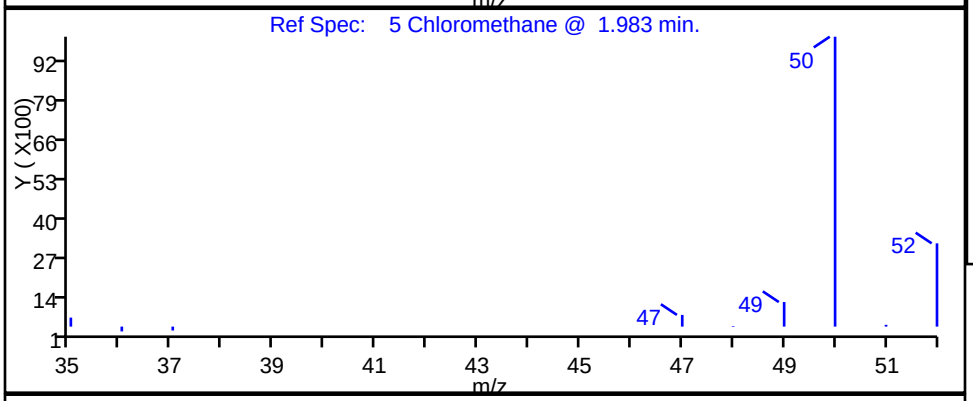
5 Chloromethane, CAS: 74-87-3

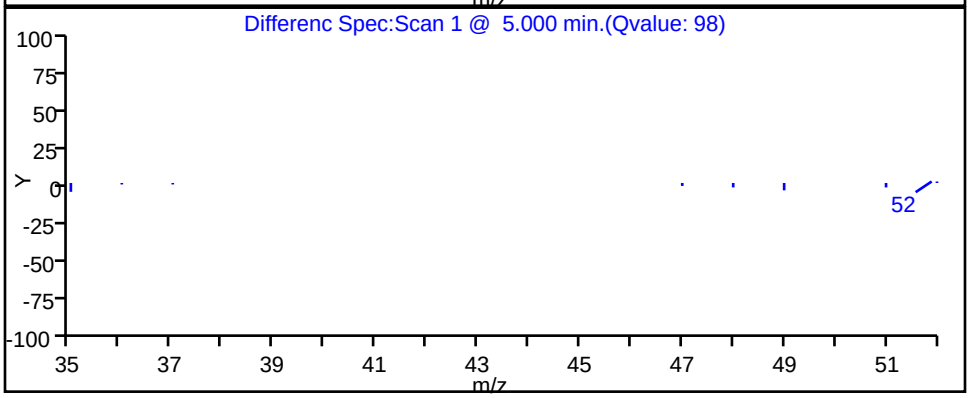












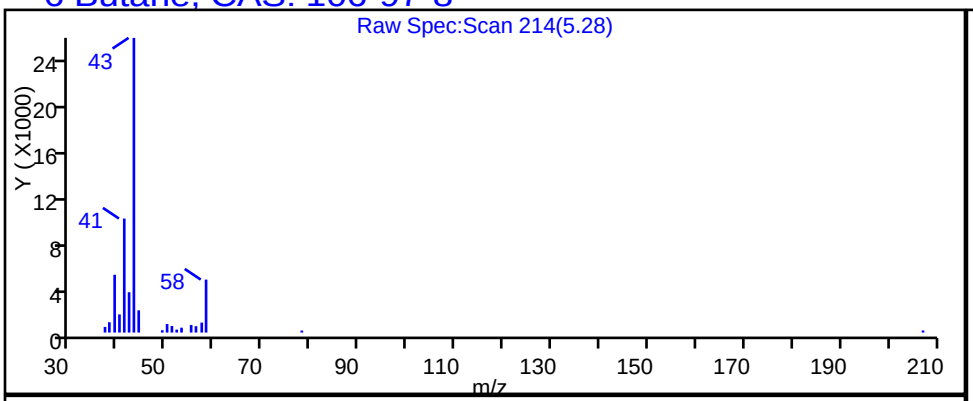
Report Date: 30-Sep-2015 14:17:50 Chrom Revision: 2.2 23-Jul-2015 08:26:08

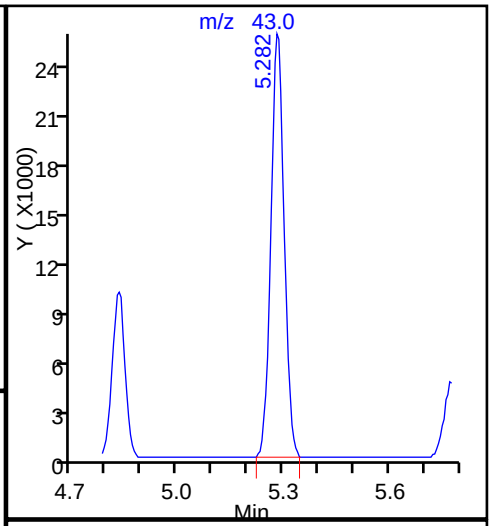
TestAmerica Burlington

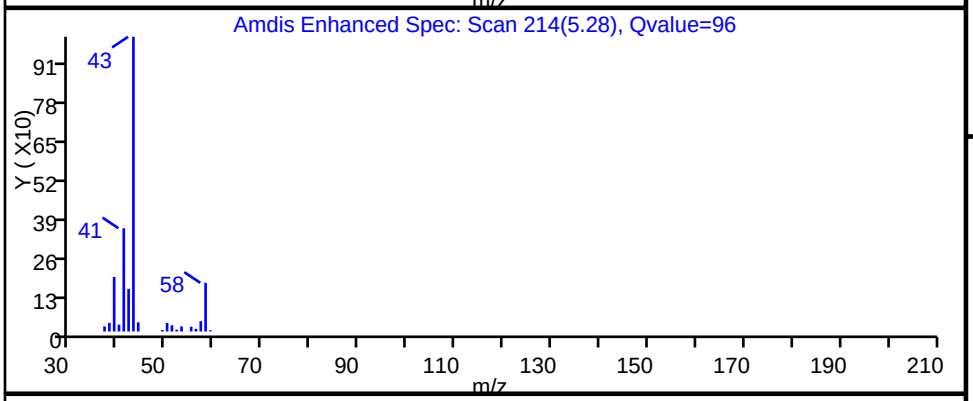
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

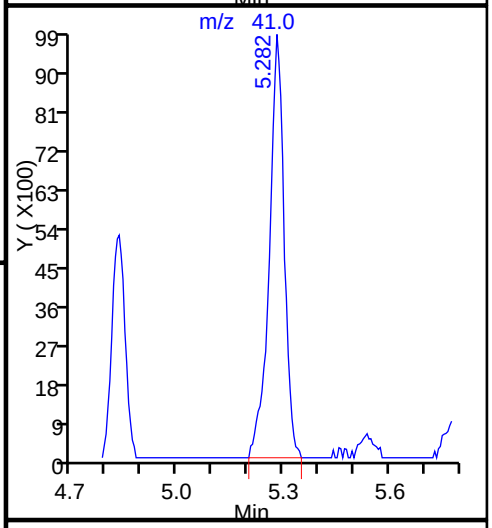
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

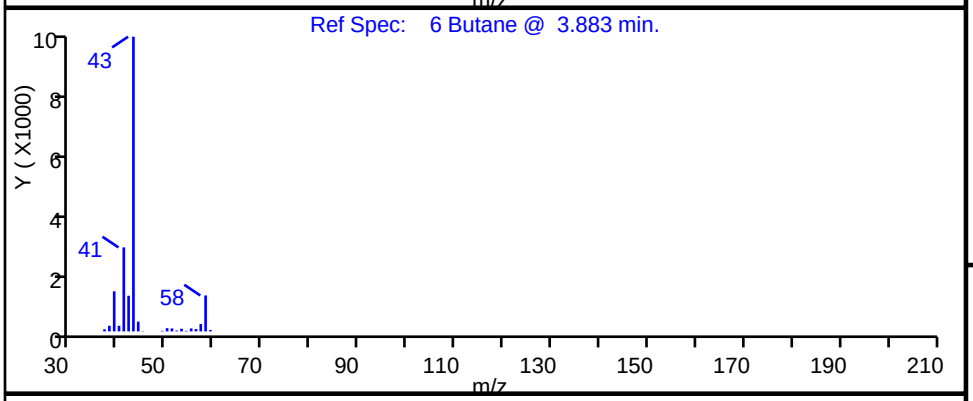
6 Butane, CAS: 106-97-8

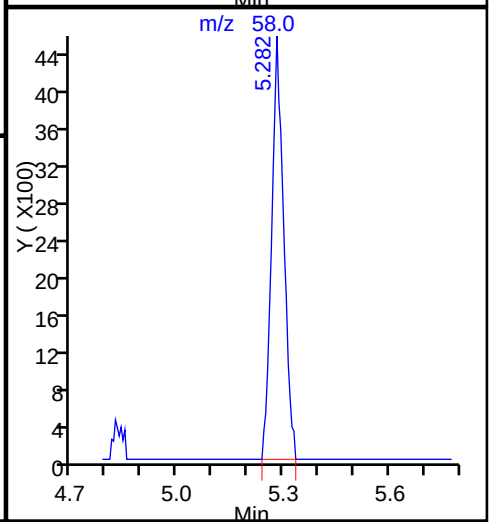


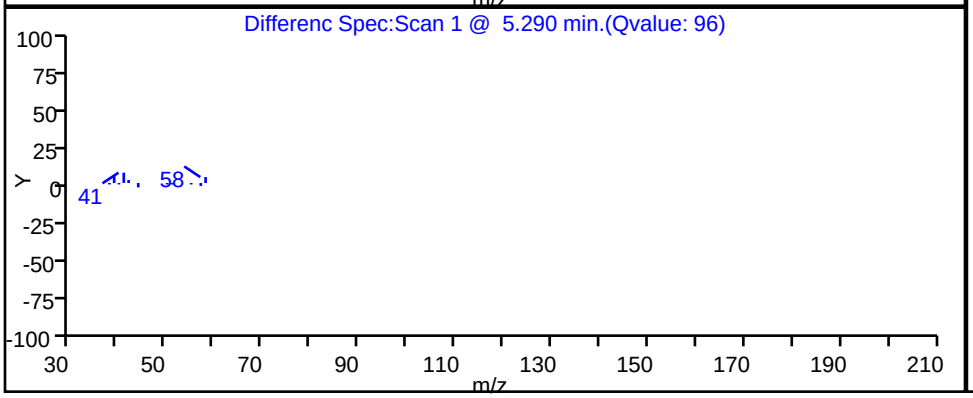












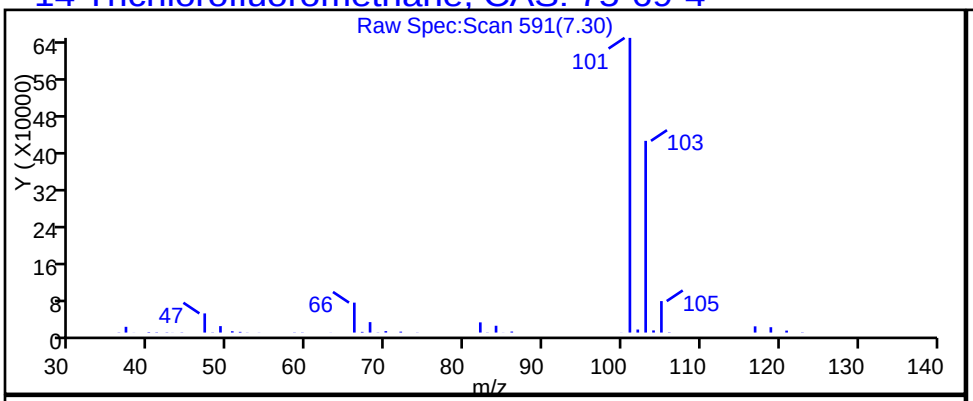
Report Date: 30-Sep-2015 14:17:51 Chrom Revision: 2.2 23-Jul-2015 08:26:08

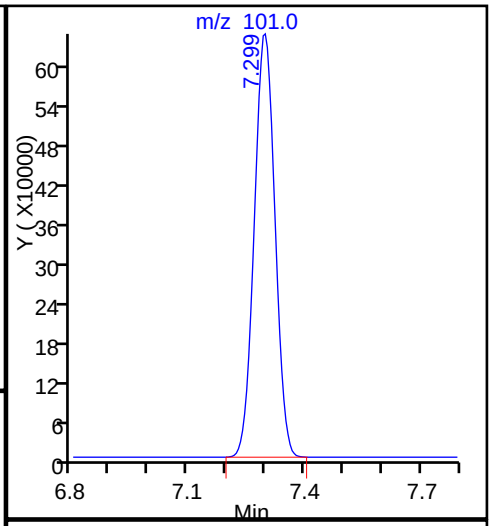
TestAmerica Burlington

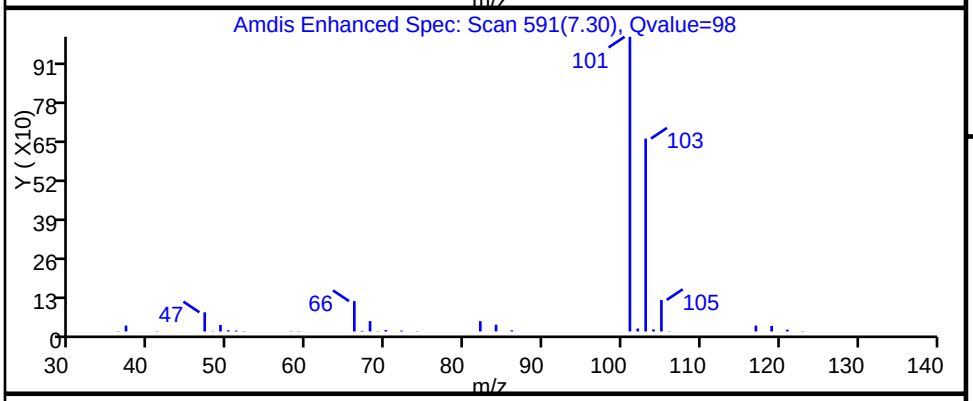
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

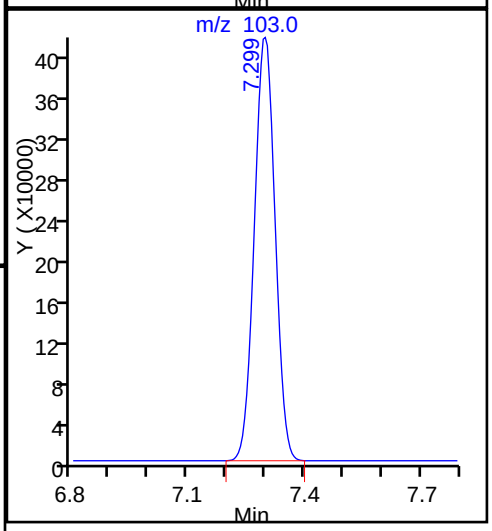
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

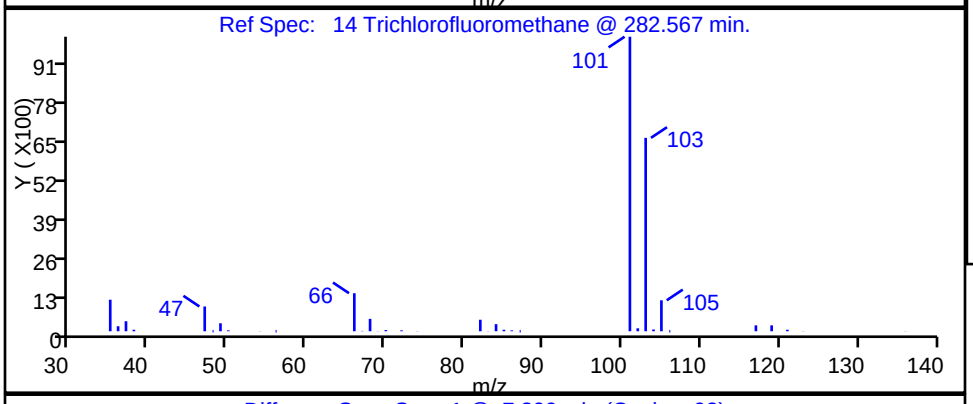
14 Trichlorofluoromethane, CAS: 75-69-4

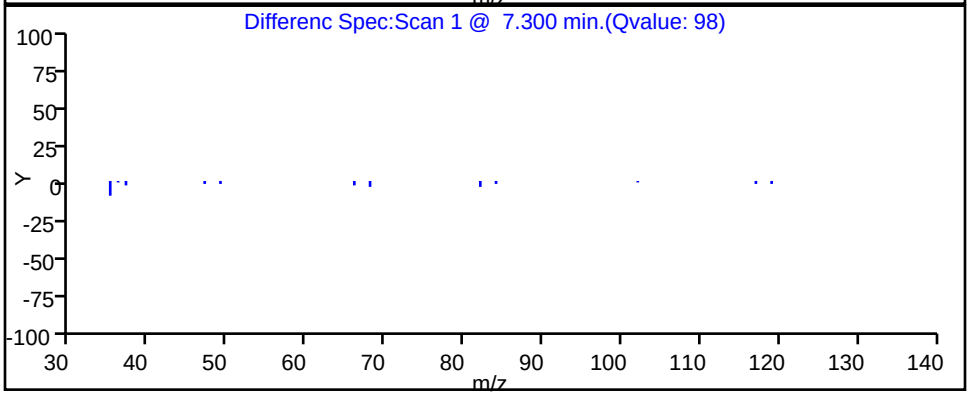












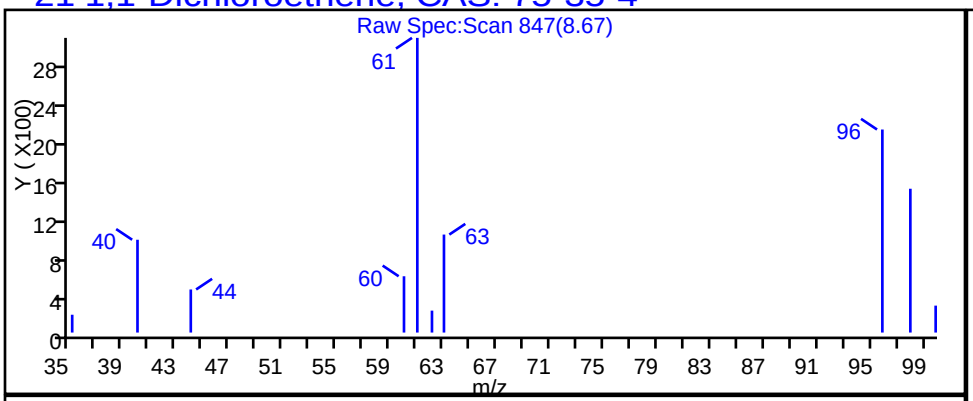
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

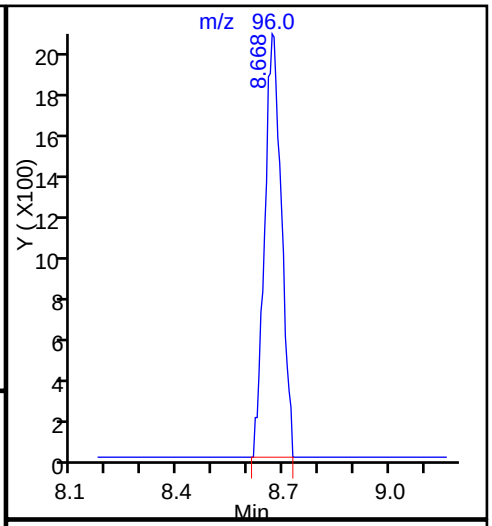
TestAmerica Burlington

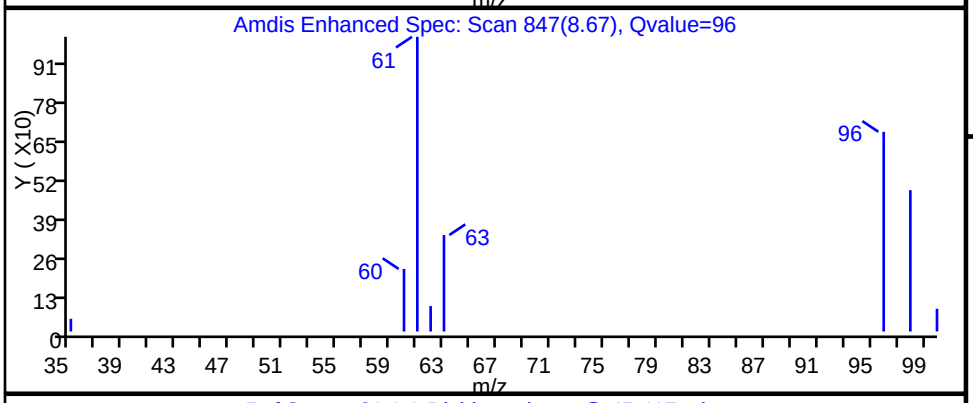
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

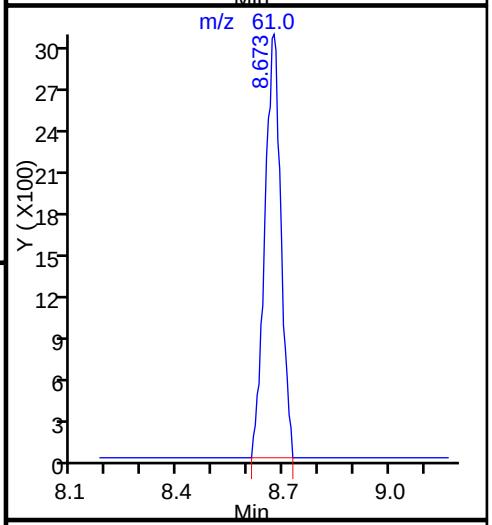
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

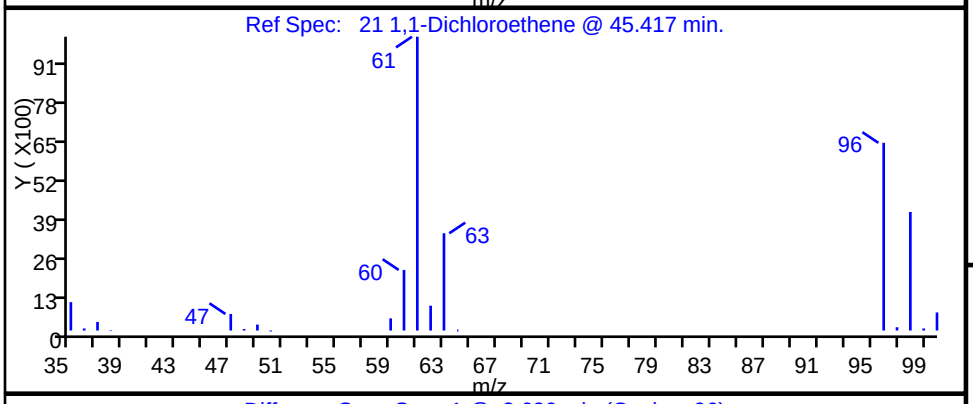
21 1,1-Dichloroethene, CAS: 75-35-4

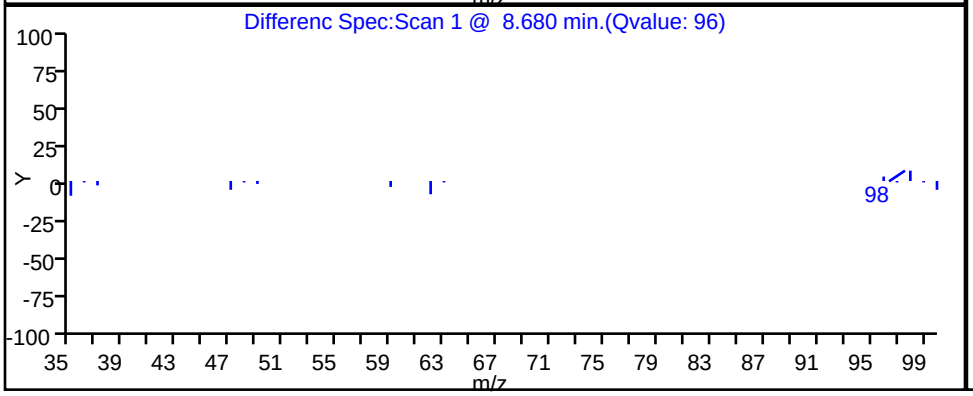


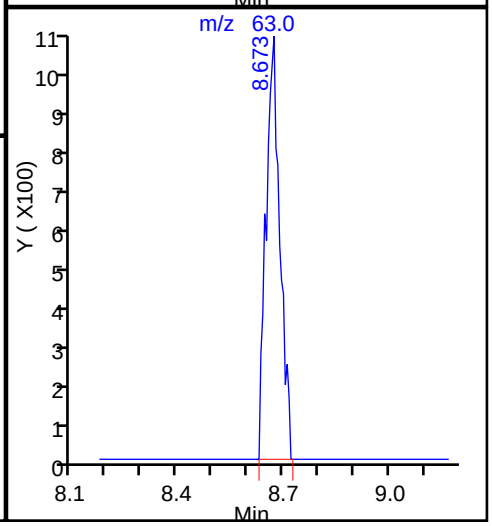












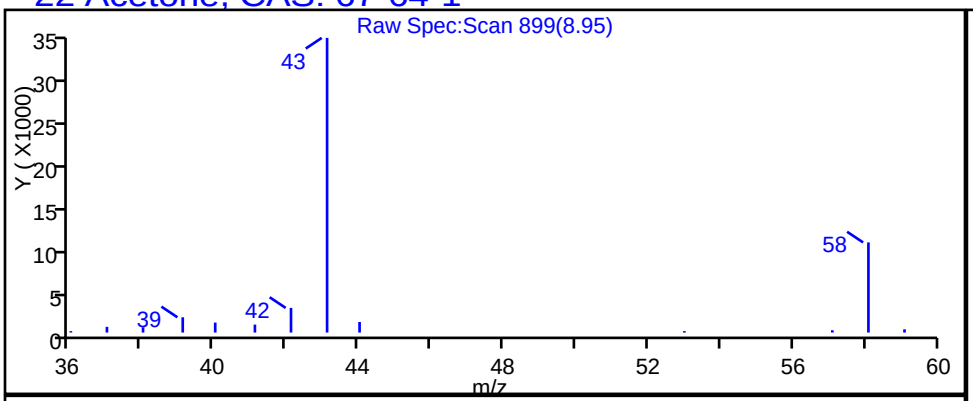
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

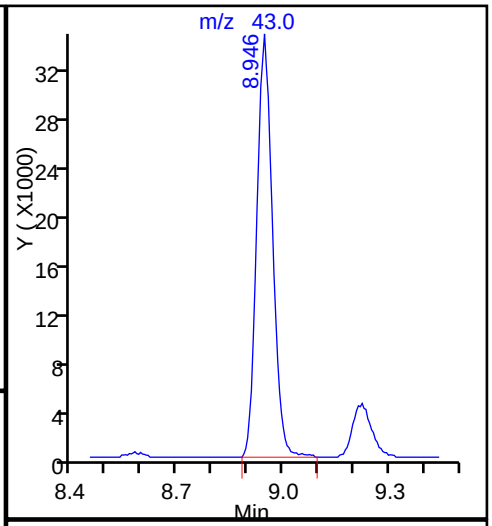
TestAmerica Burlington

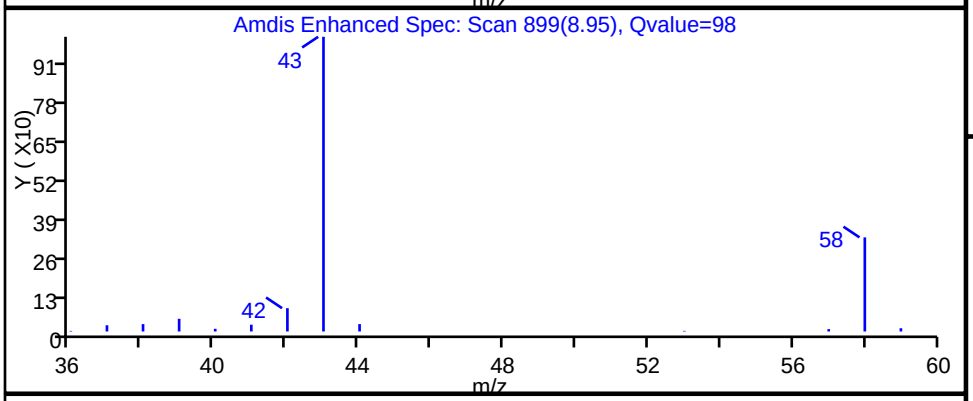
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

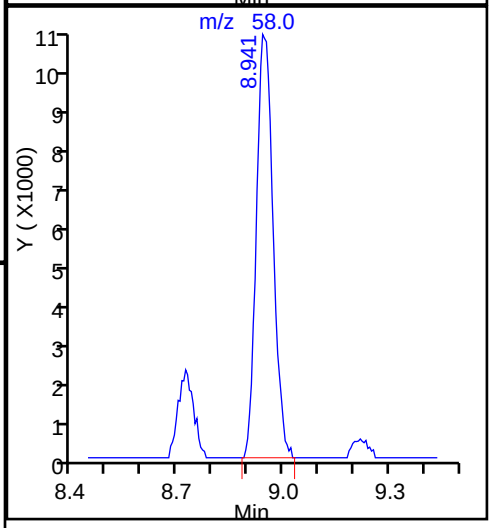
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

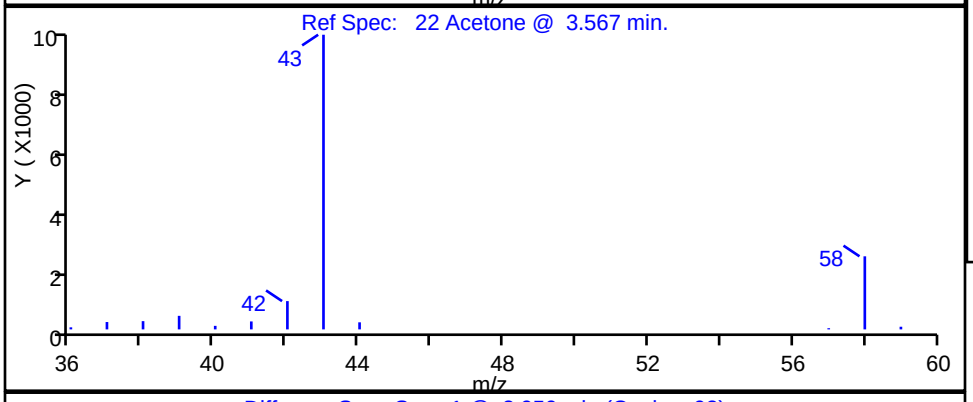
22 Acetone, CAS: 67-64-1

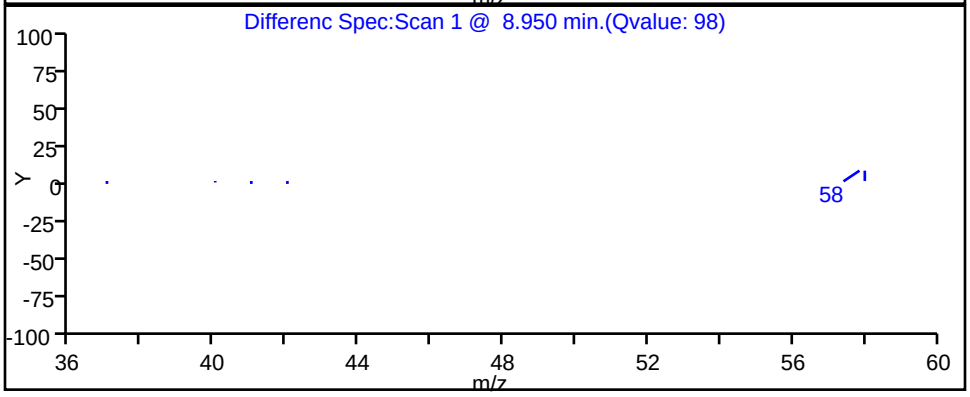












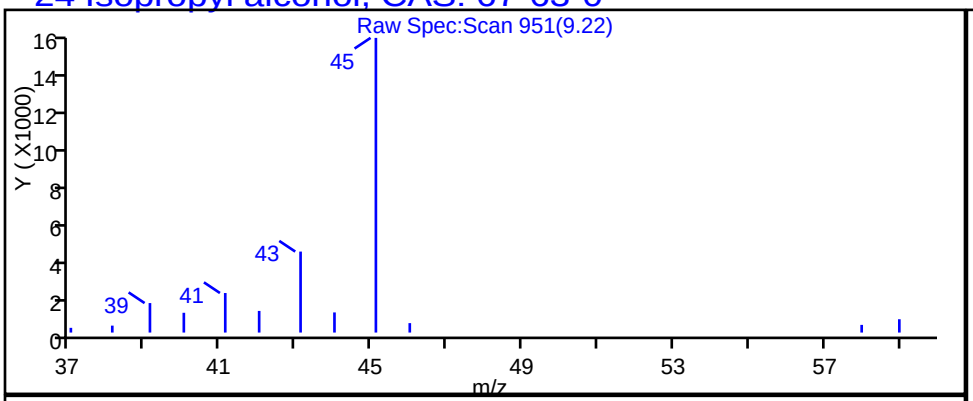
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

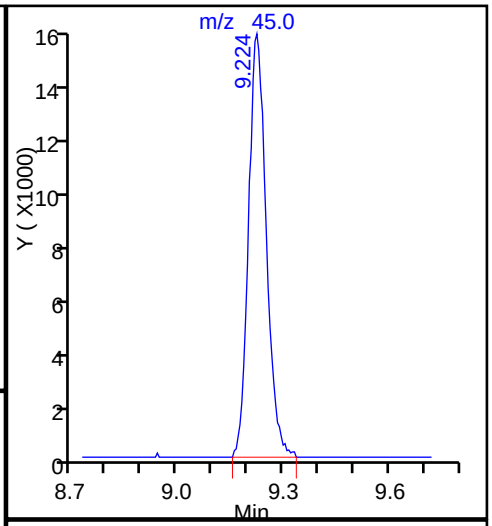
TestAmerica Burlington

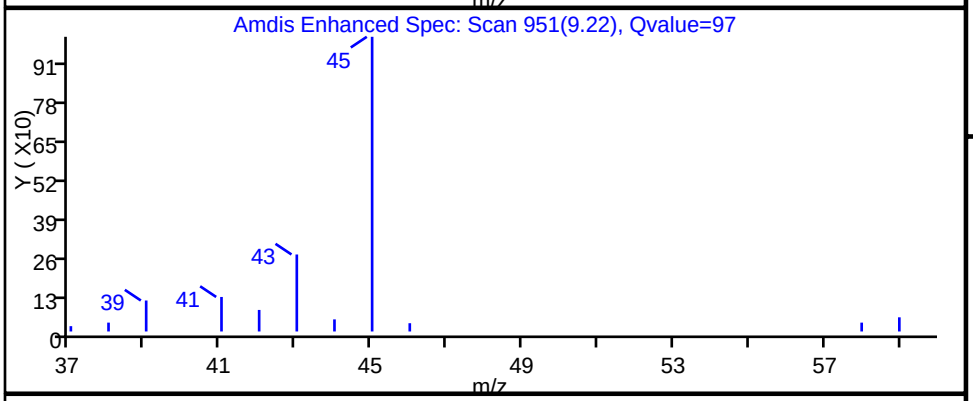
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

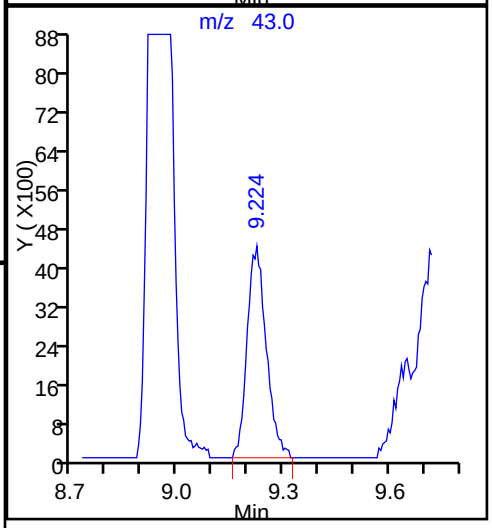
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

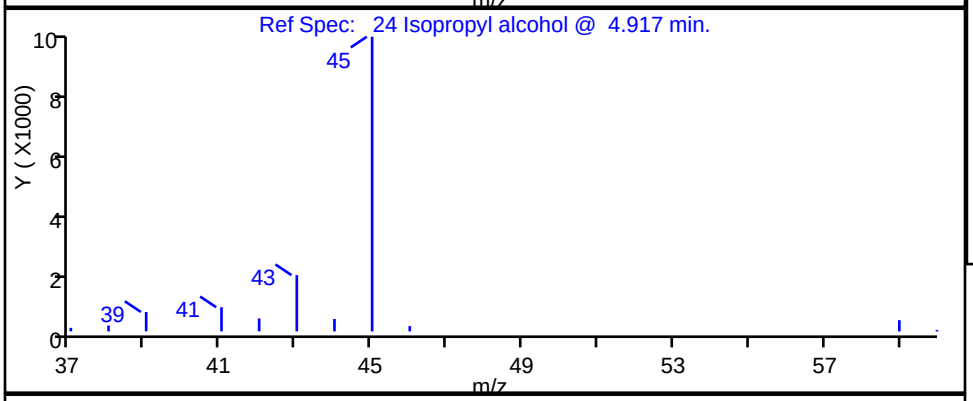
24 Isopropyl alcohol, CAS: 67-63-0

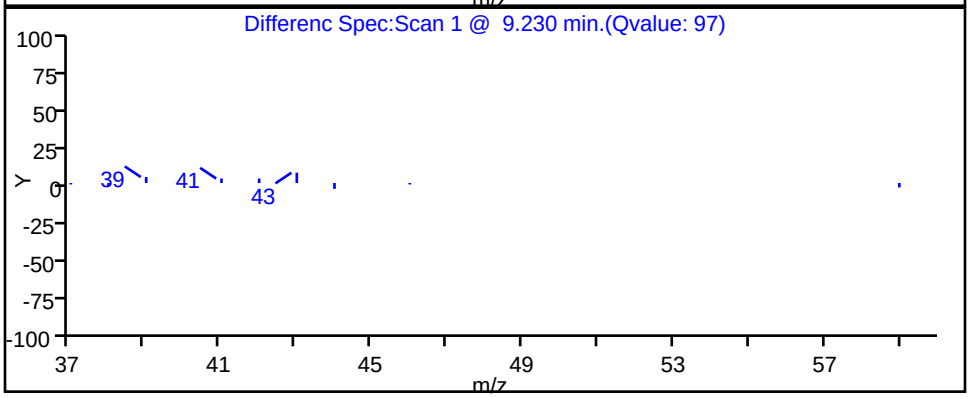












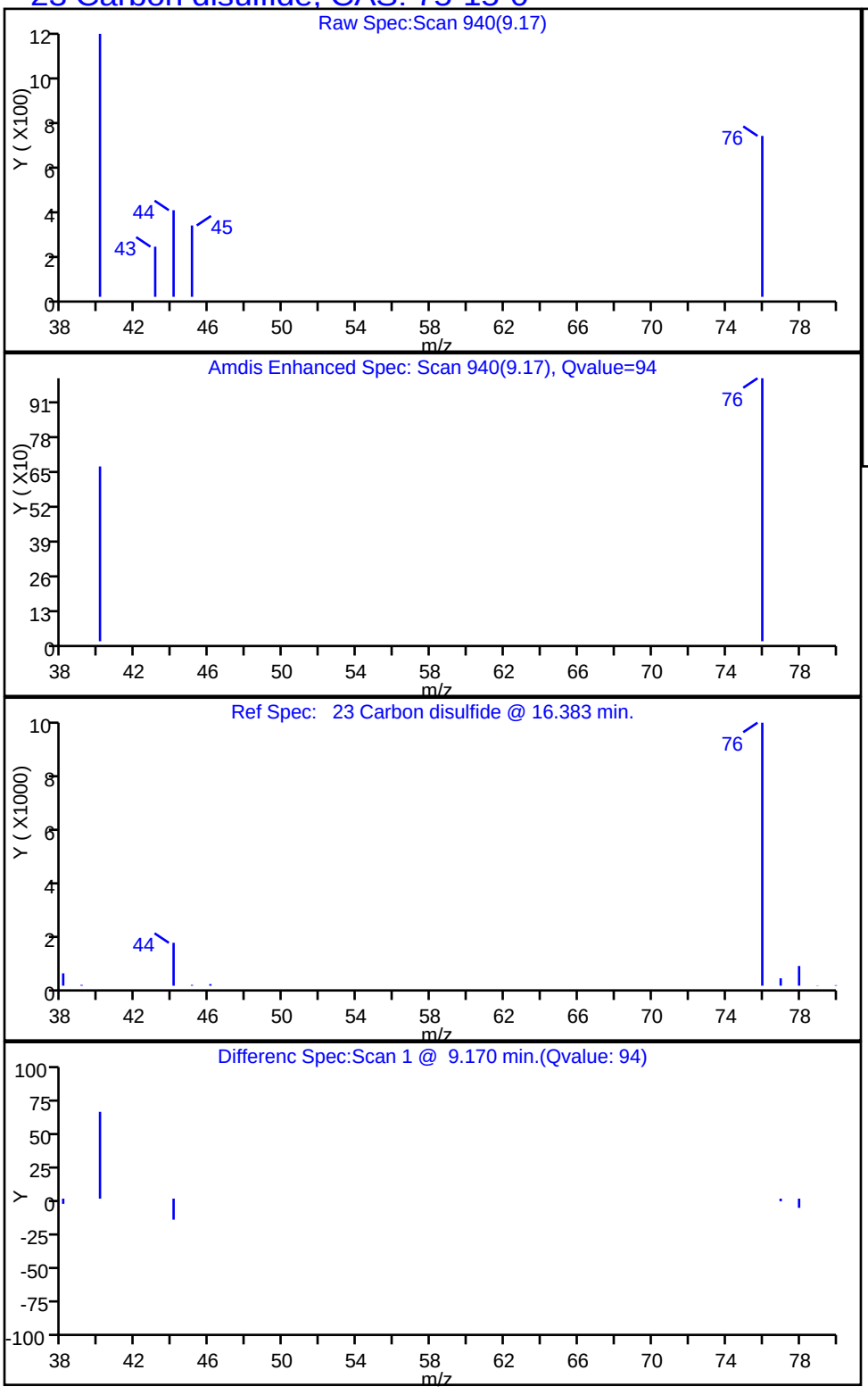
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

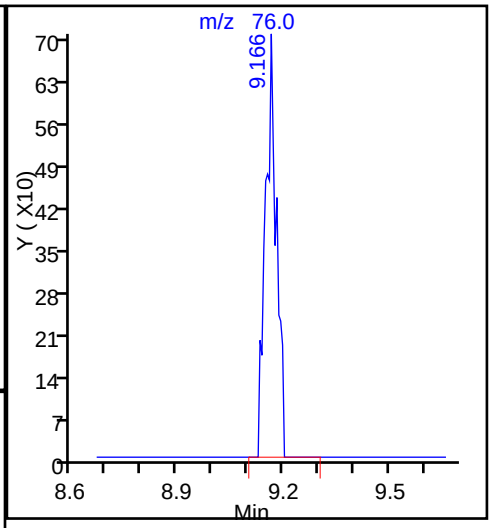
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





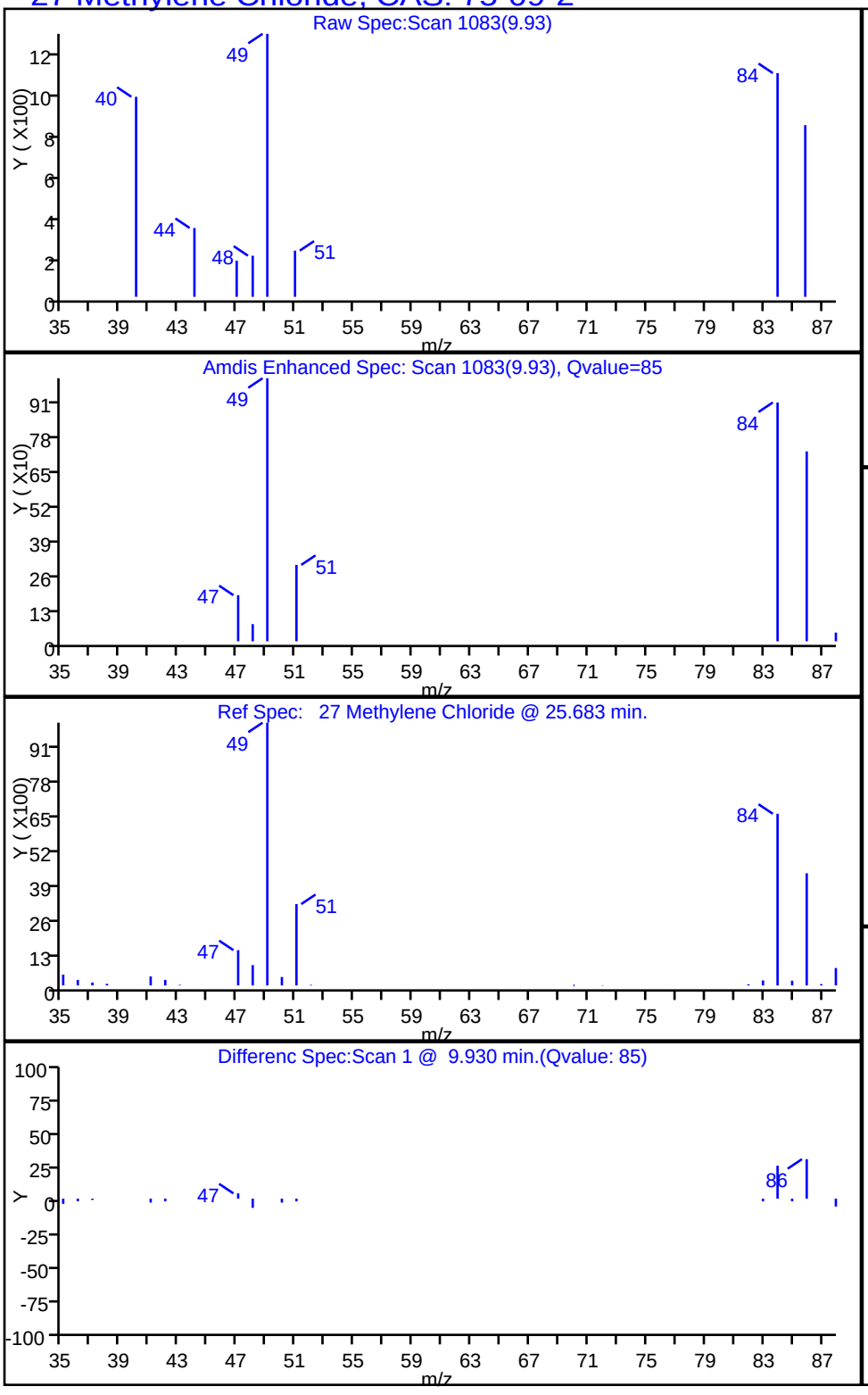
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

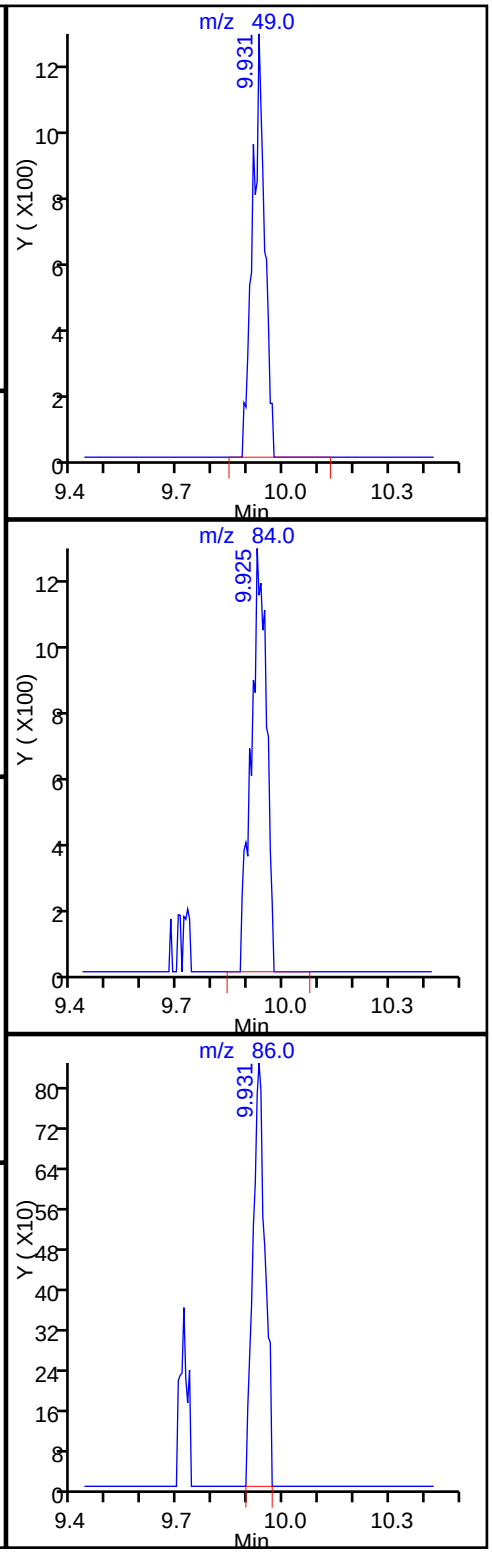
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2





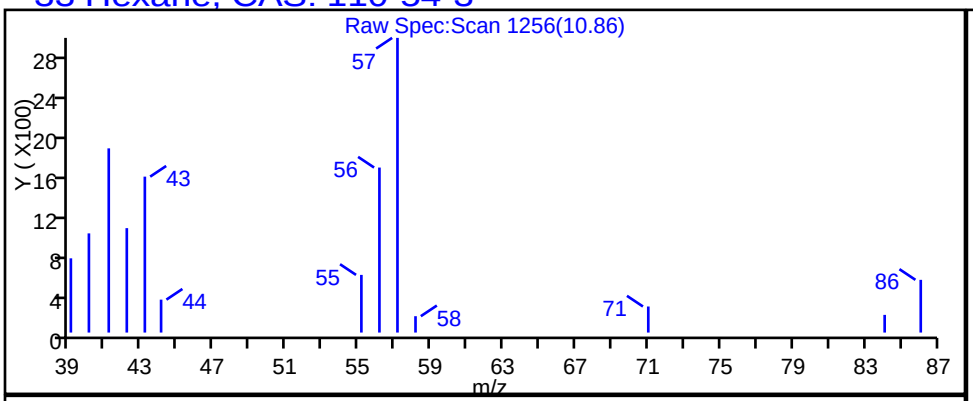
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

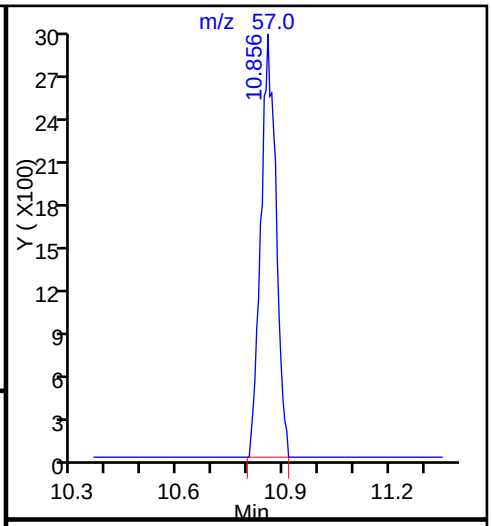
TestAmerica Burlington

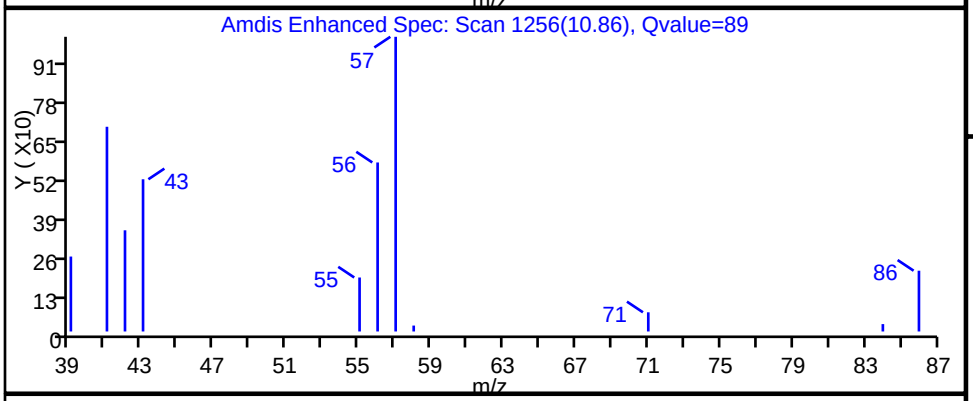
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

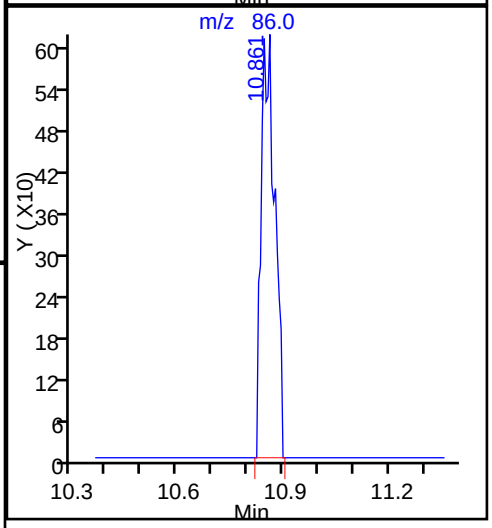
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

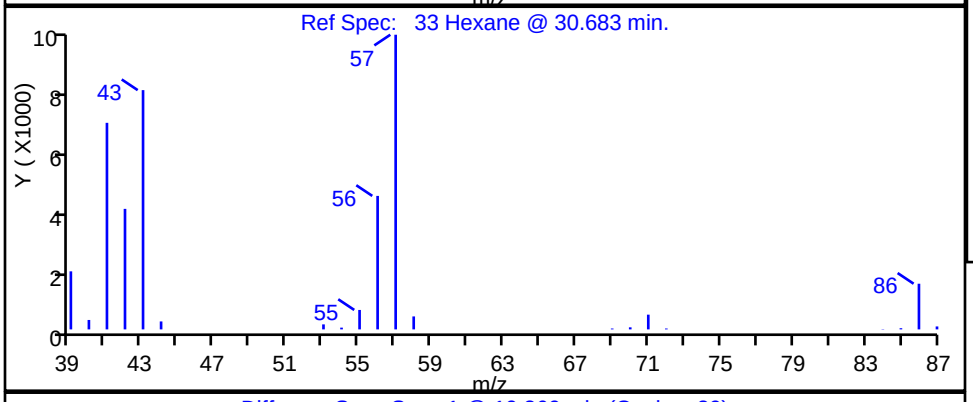
33 Hexane, CAS: 110-54-3

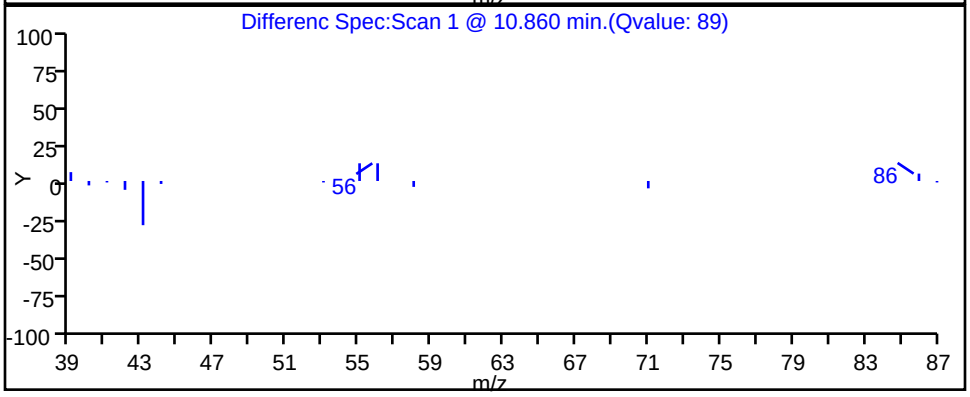












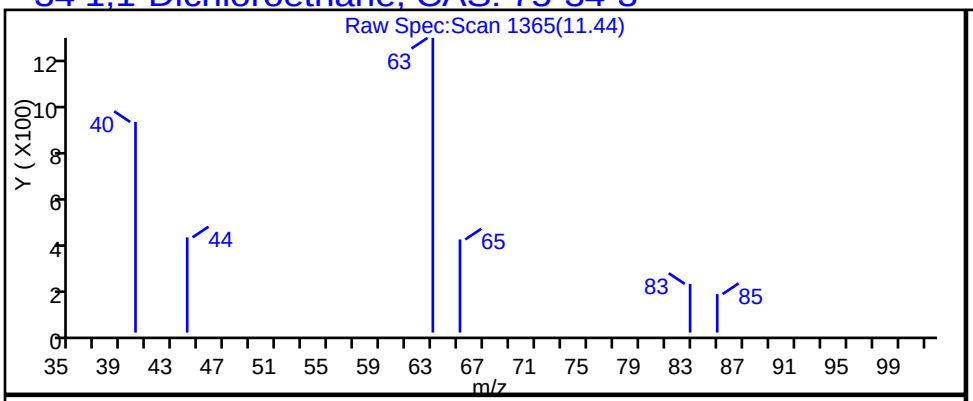
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

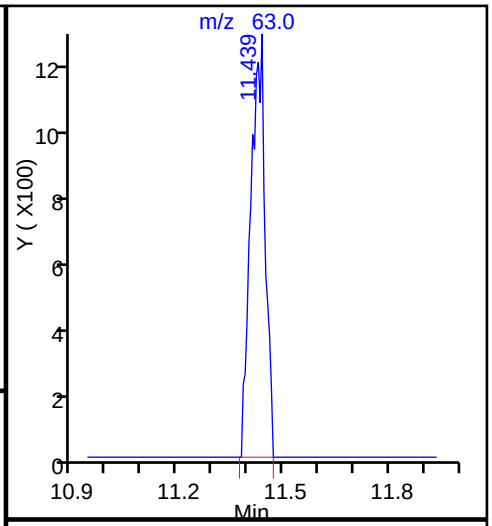
TestAmerica Burlington

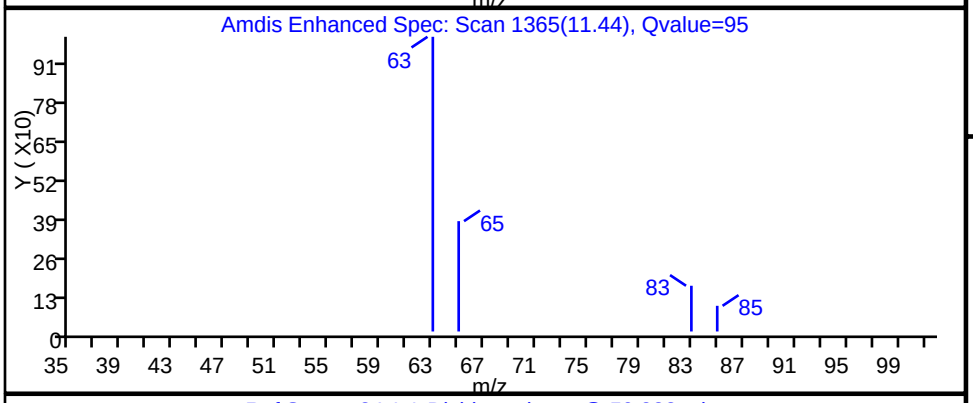
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

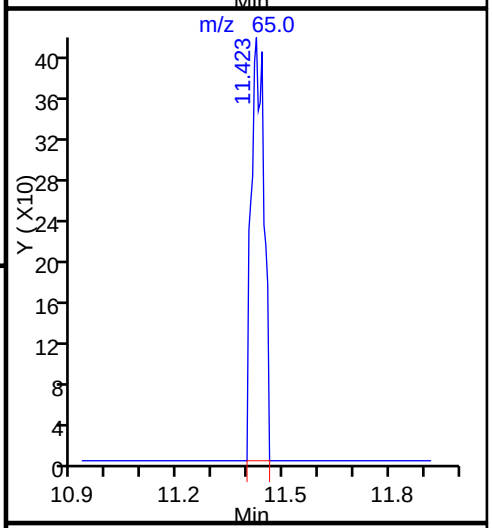
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

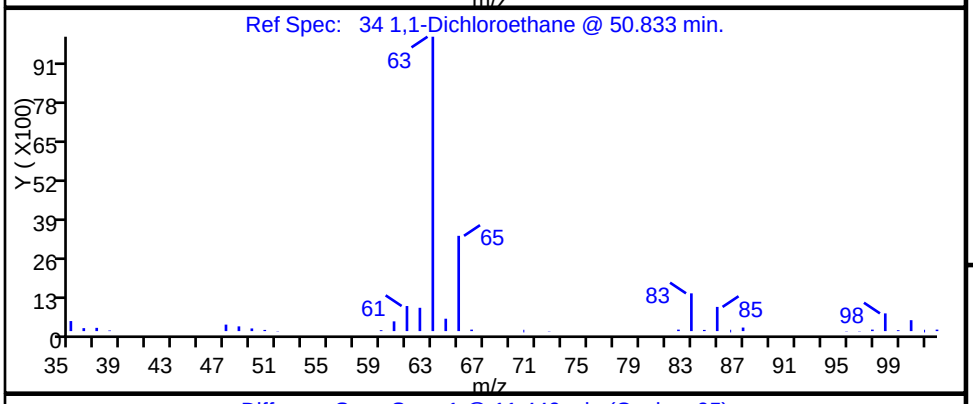
34 1,1-Dichloroethane, CAS: 75-34-3

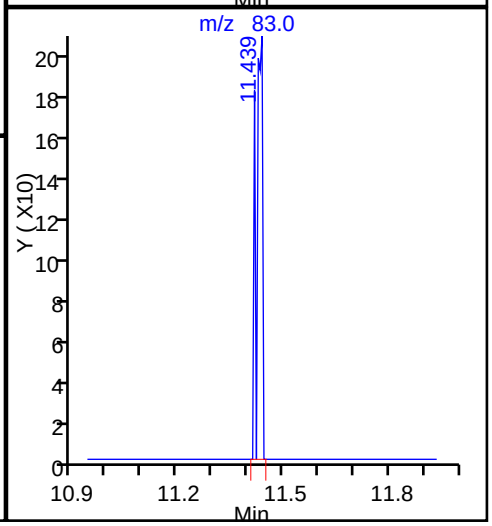


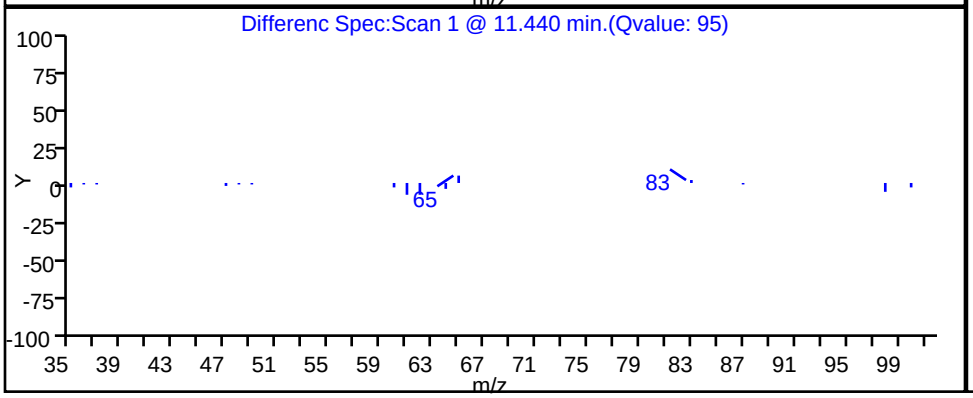










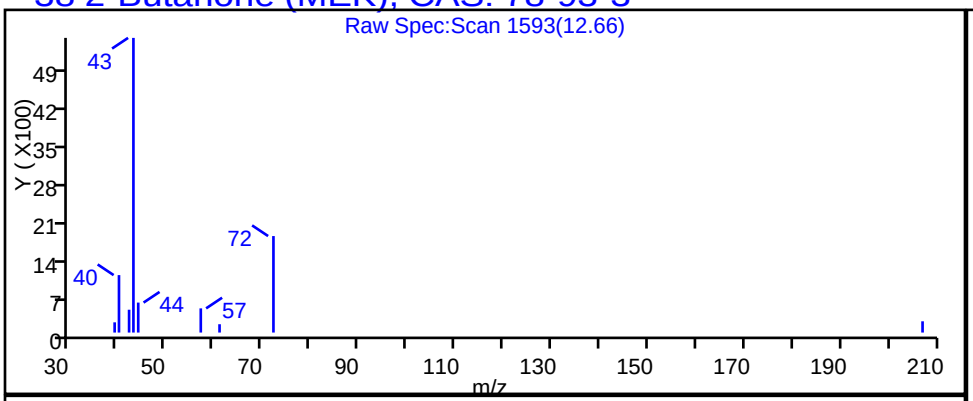


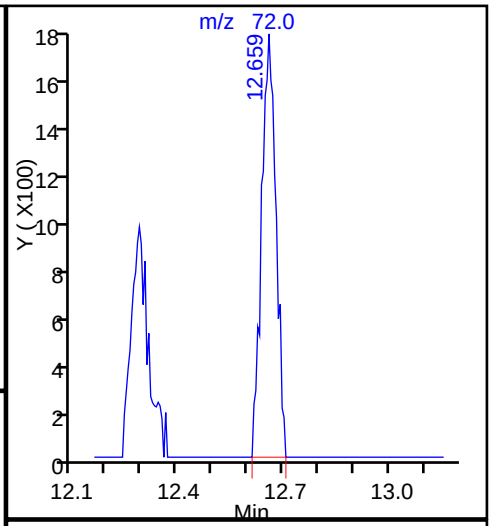
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

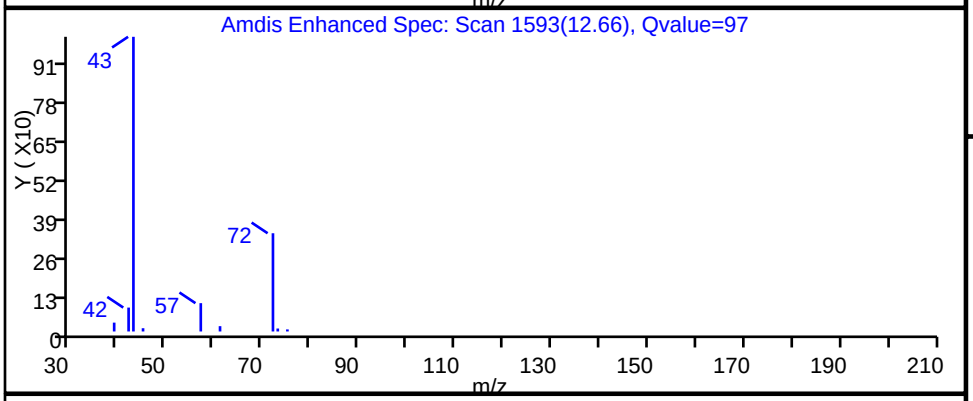
TestAmerica Burlington

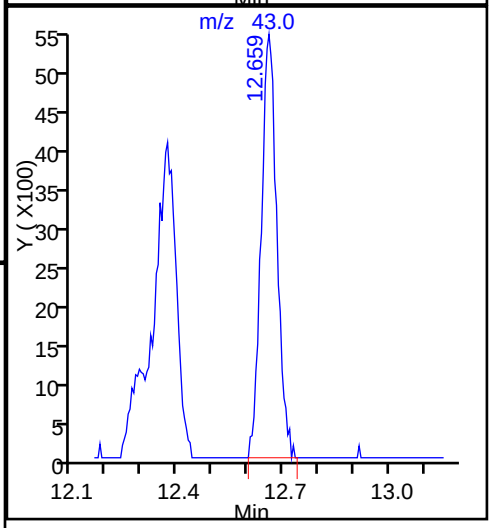
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

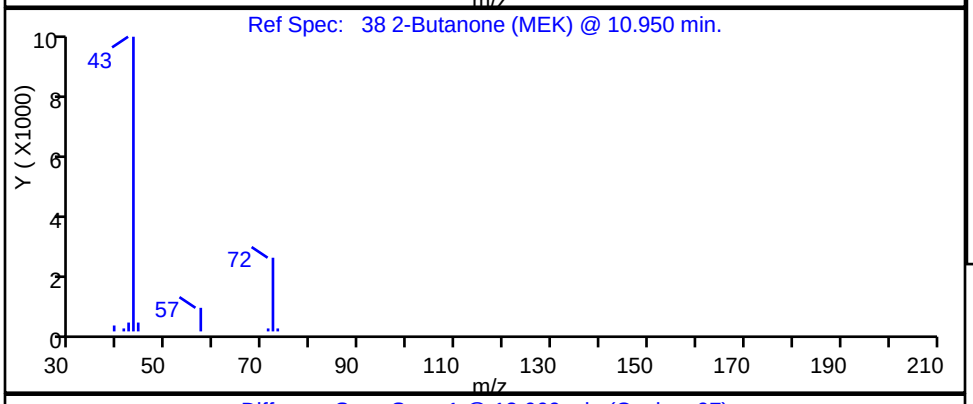
38 2-Butanone (MEK), CAS: 78-93-3

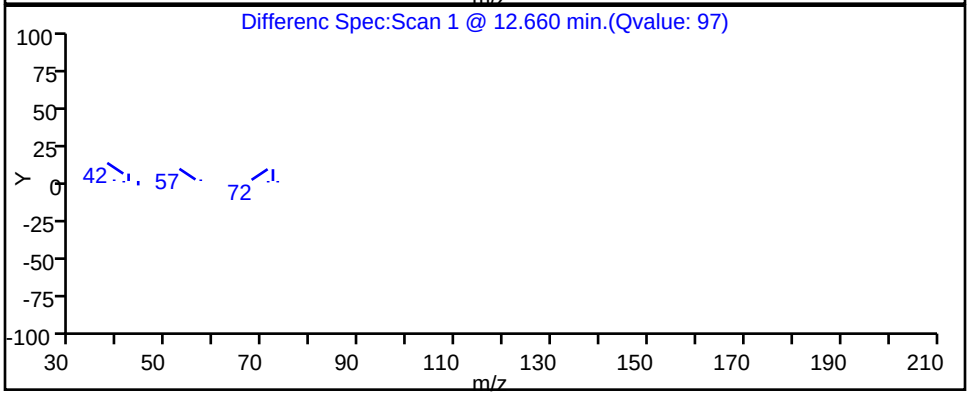










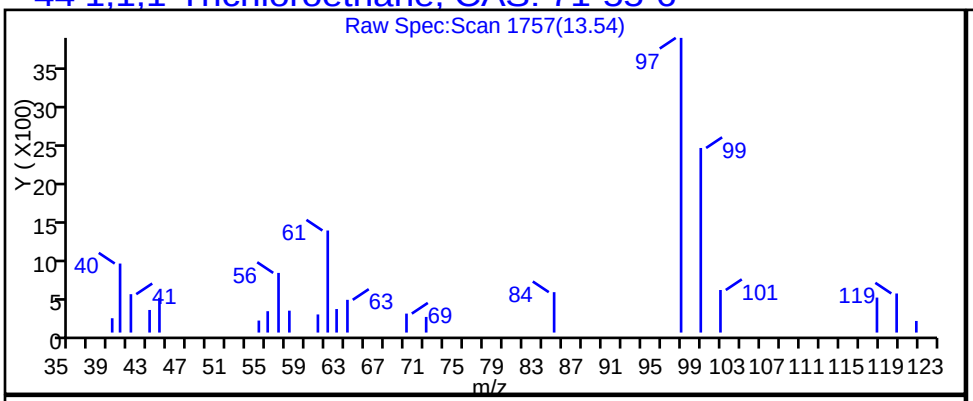


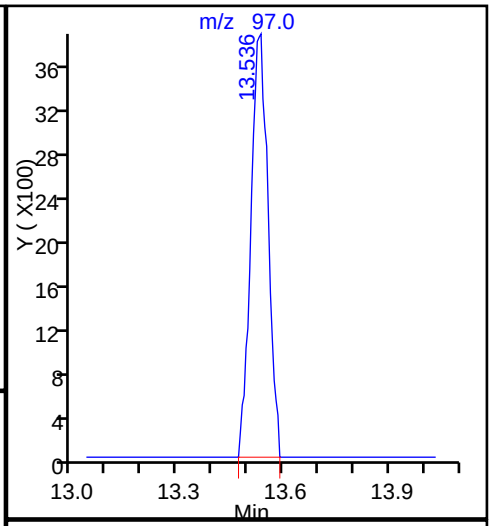
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

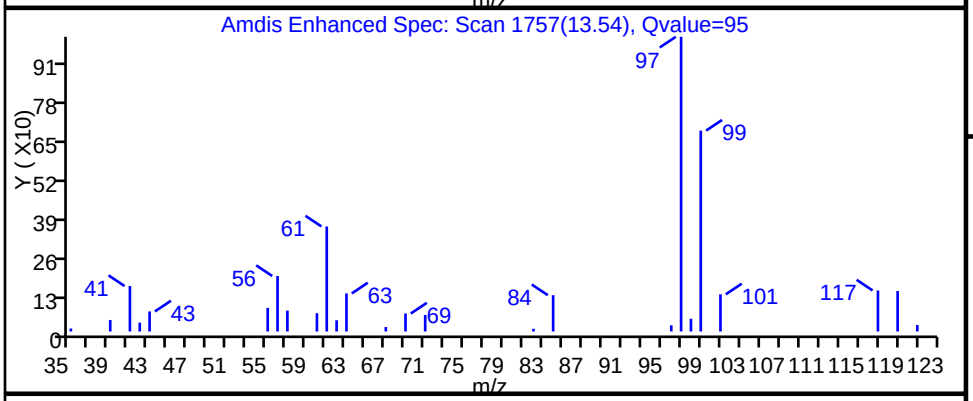
TestAmerica Burlington

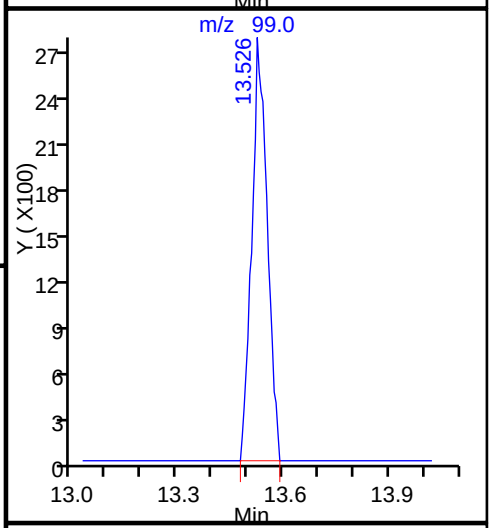
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

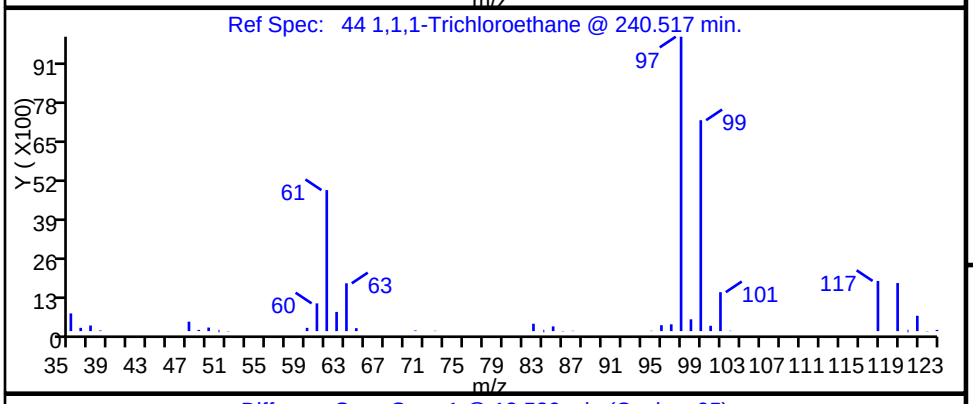
44 1,1,1-Trichloroethane, CAS: 71-55-6

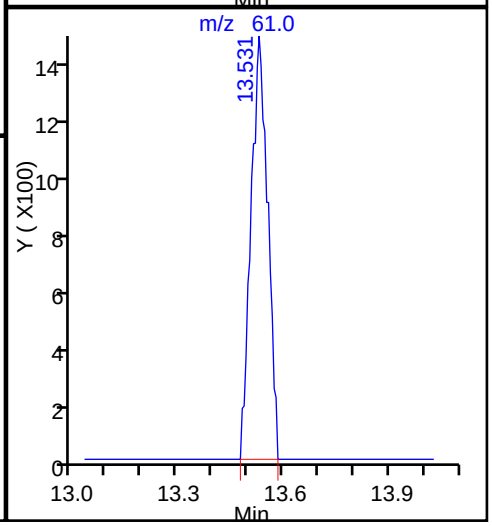


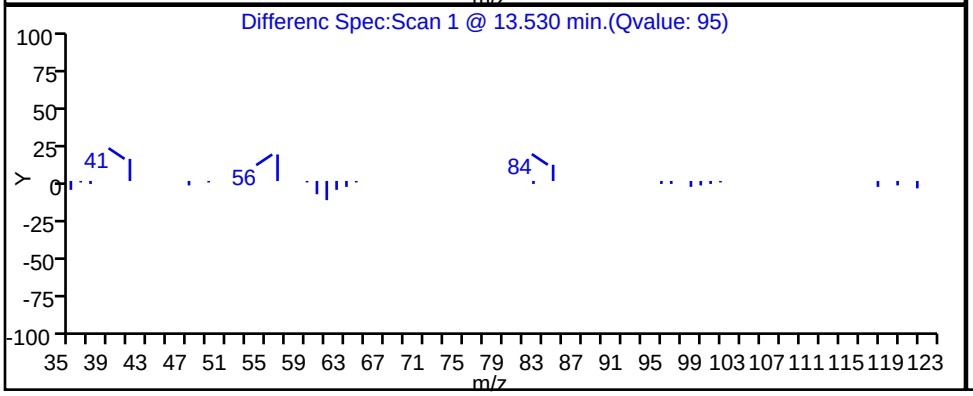










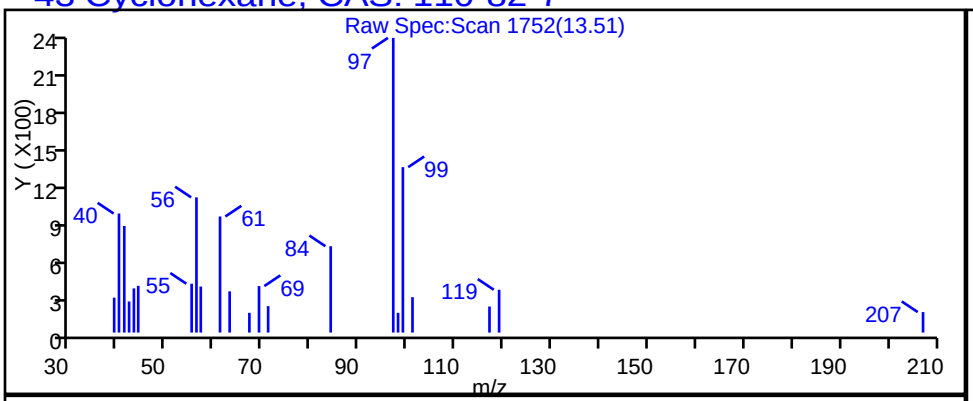


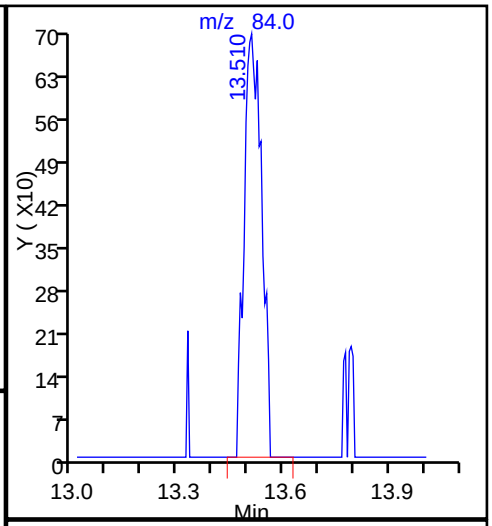
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

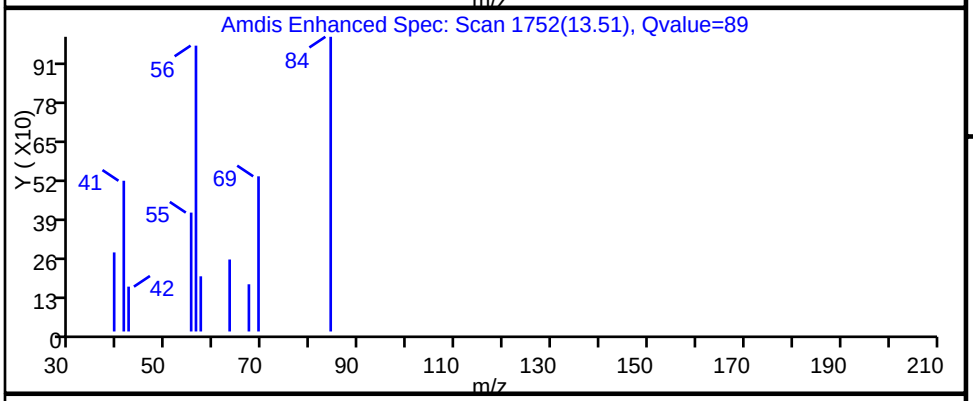
TestAmerica Burlington

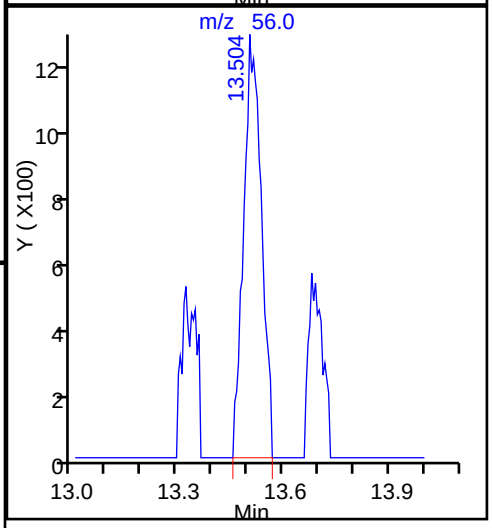
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

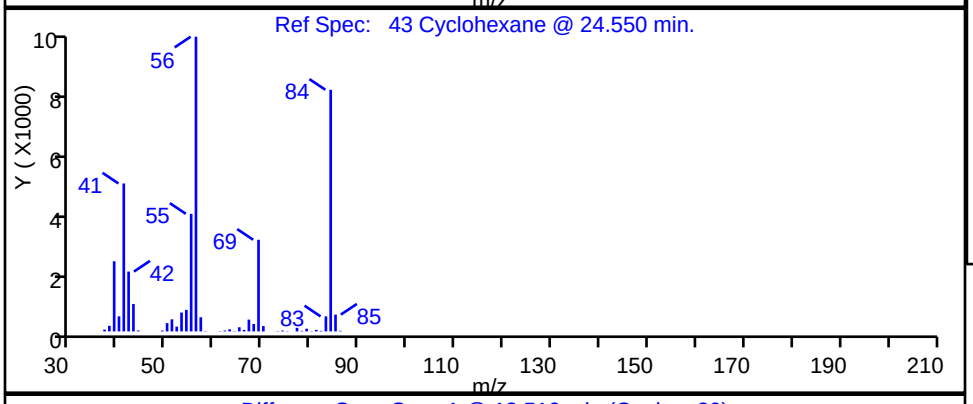
43 Cyclohexane, CAS: 110-82-7

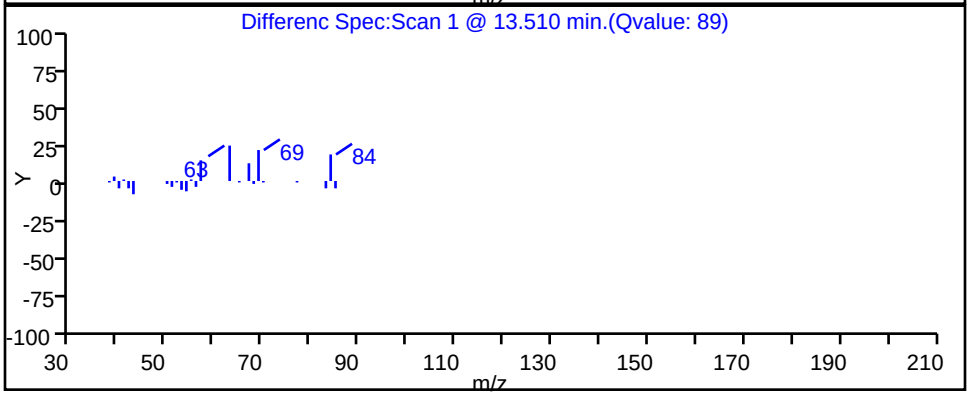










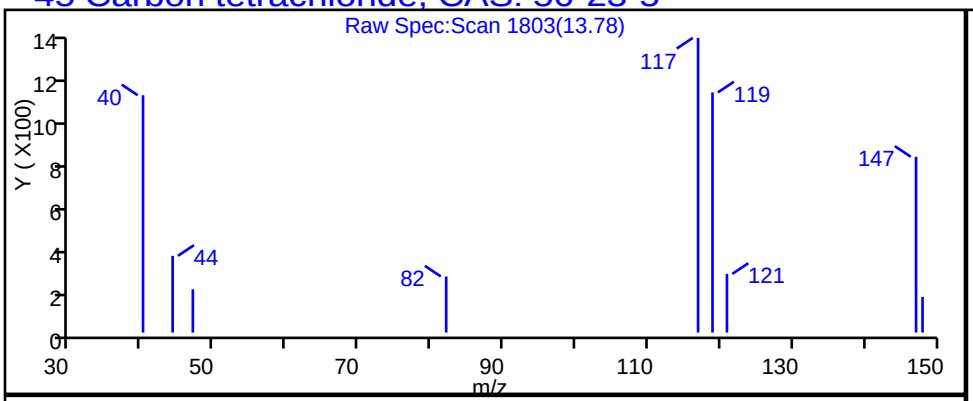


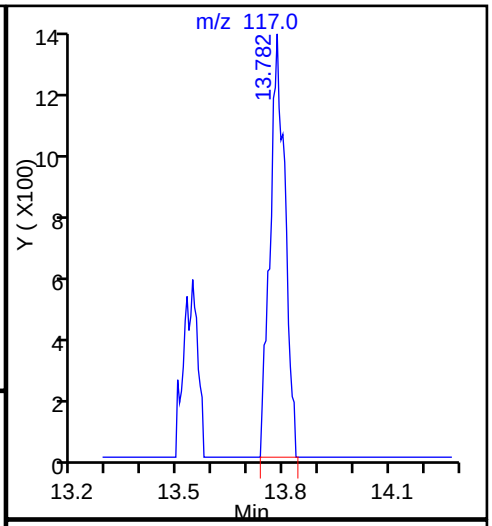
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

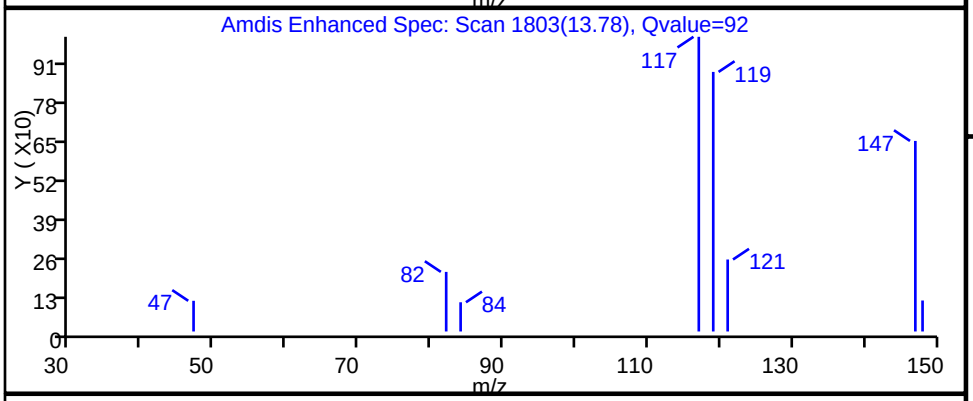
TestAmerica Burlington

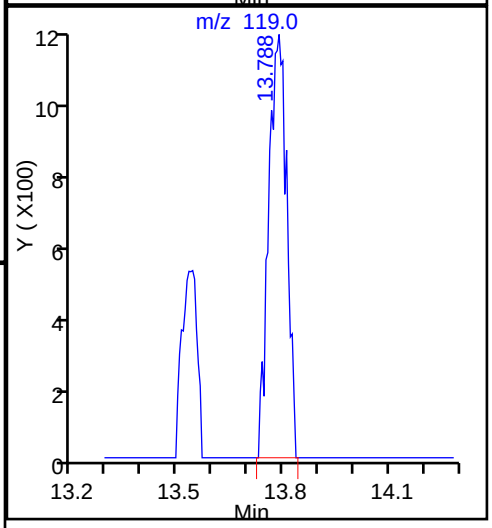
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

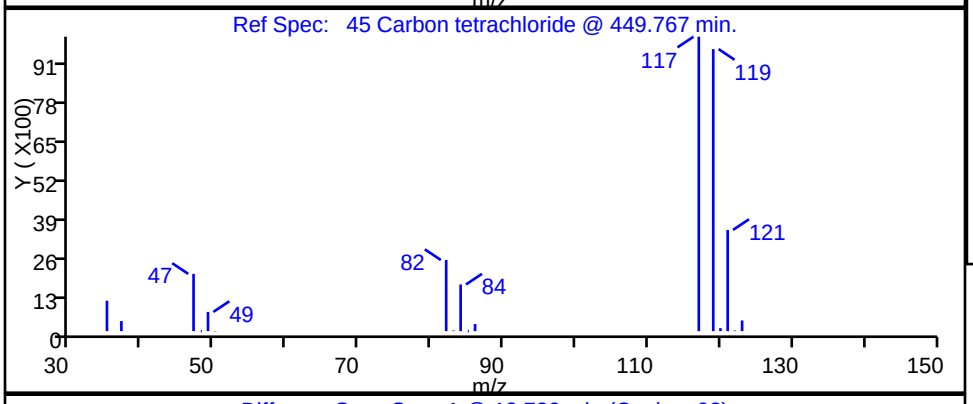
45 Carbon tetrachloride, CAS: 56-23-5

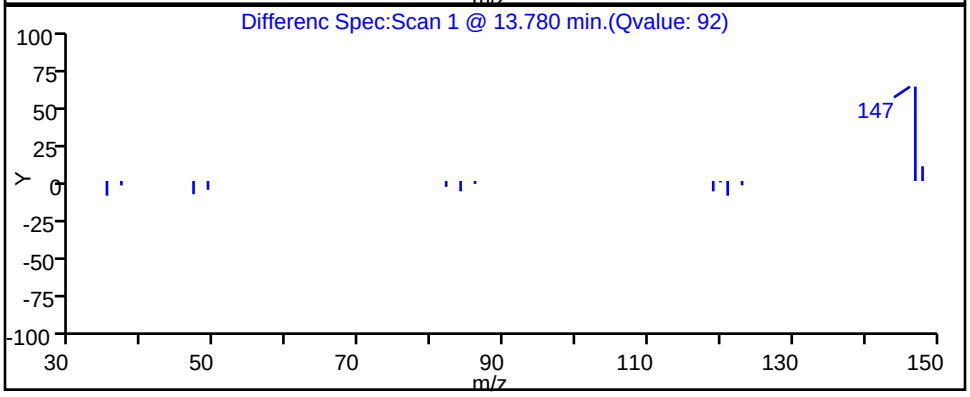












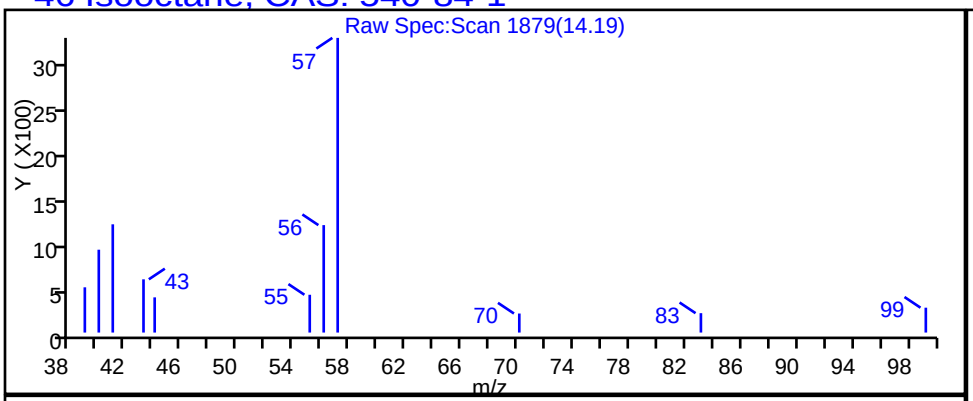
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

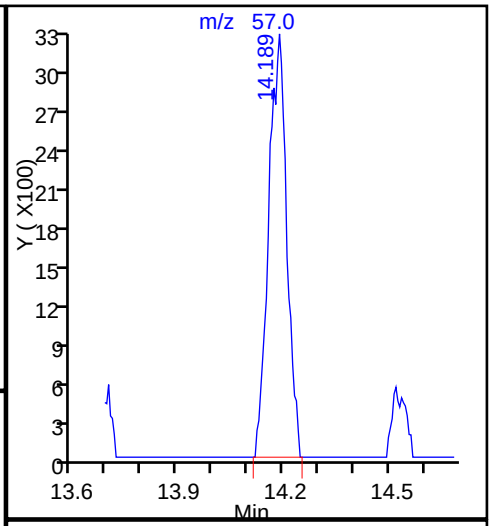
TestAmerica Burlington

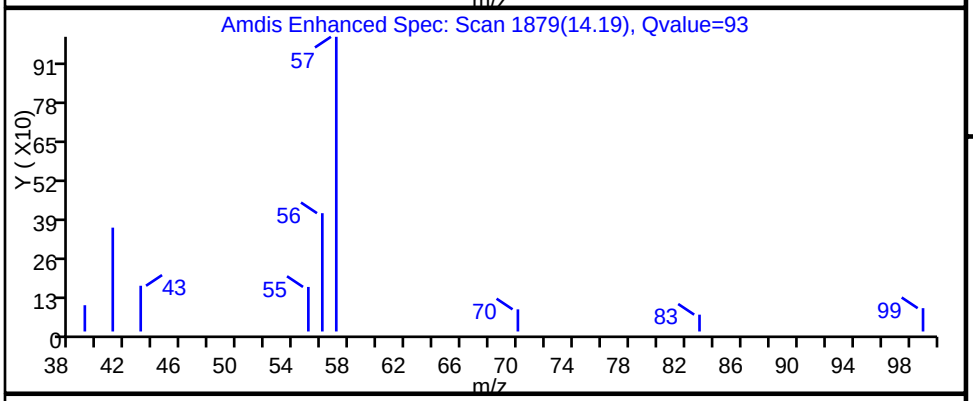
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

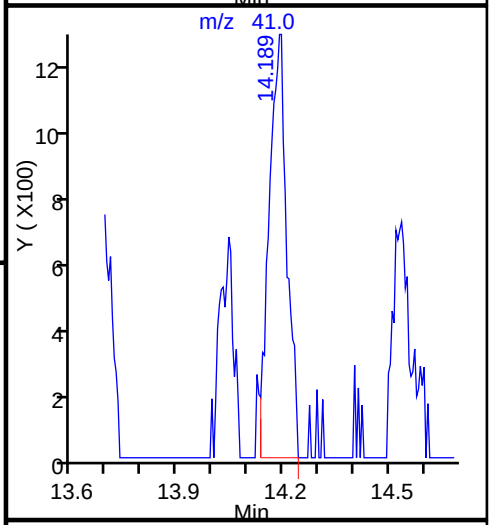
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

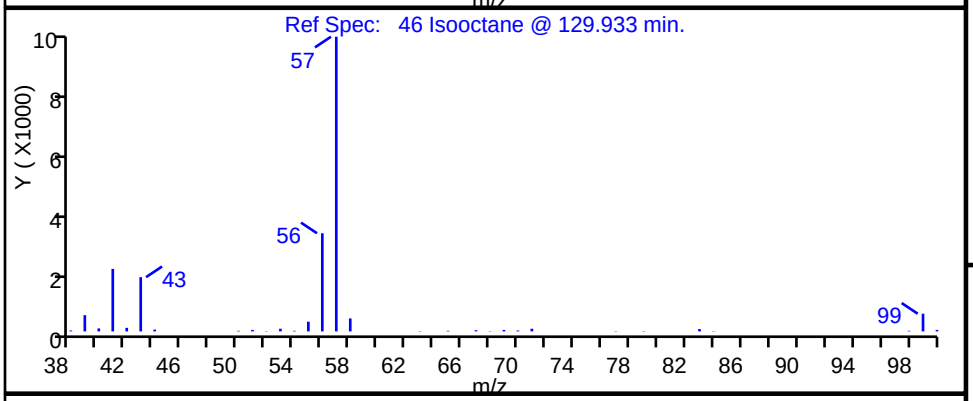
46 Isooctane, CAS: 540-84-1

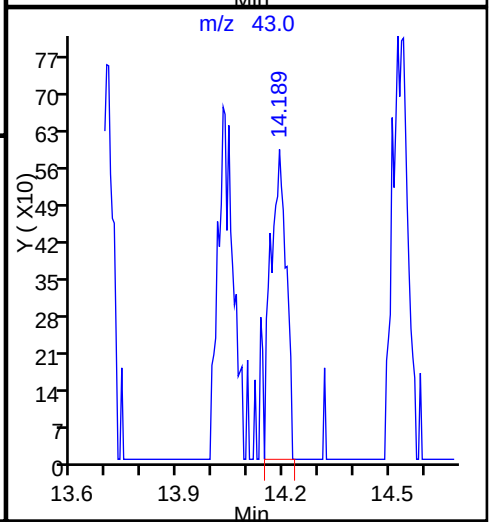


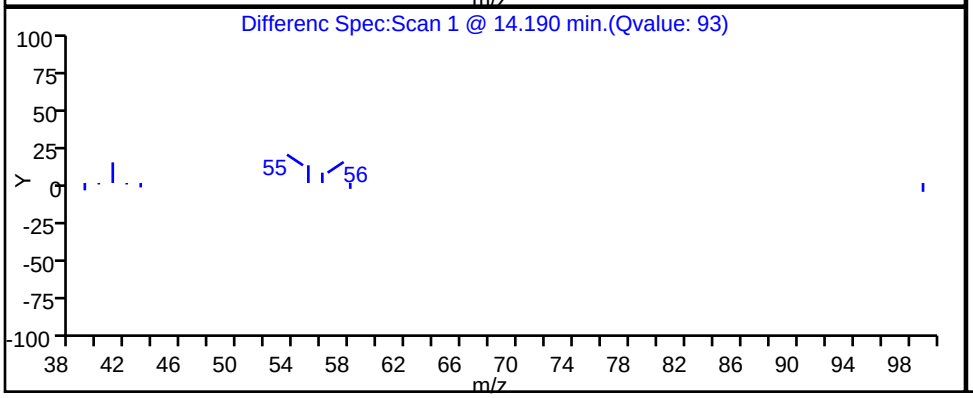












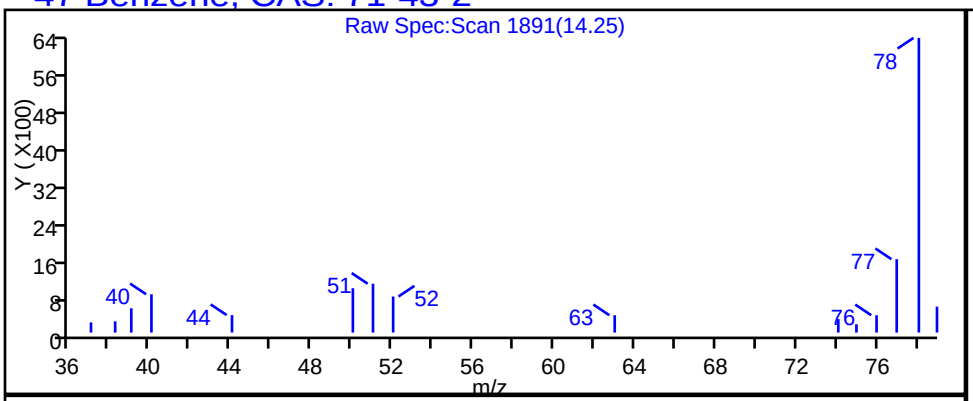
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

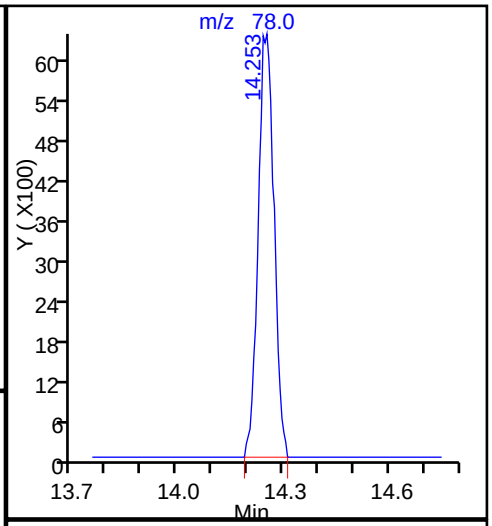
TestAmerica Burlington

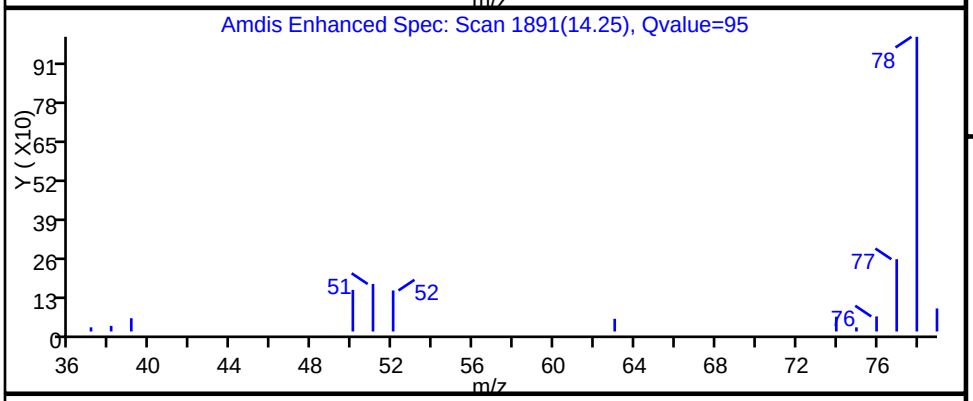
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

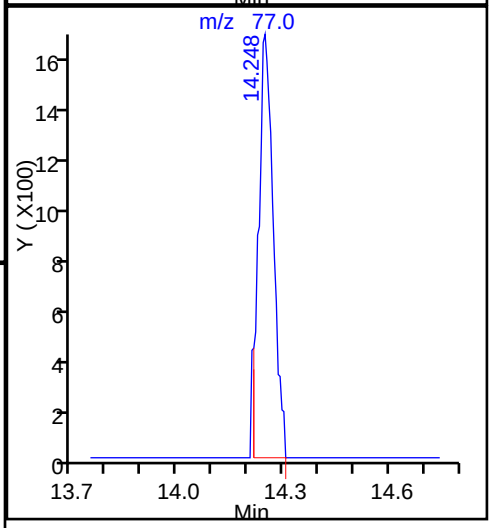
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

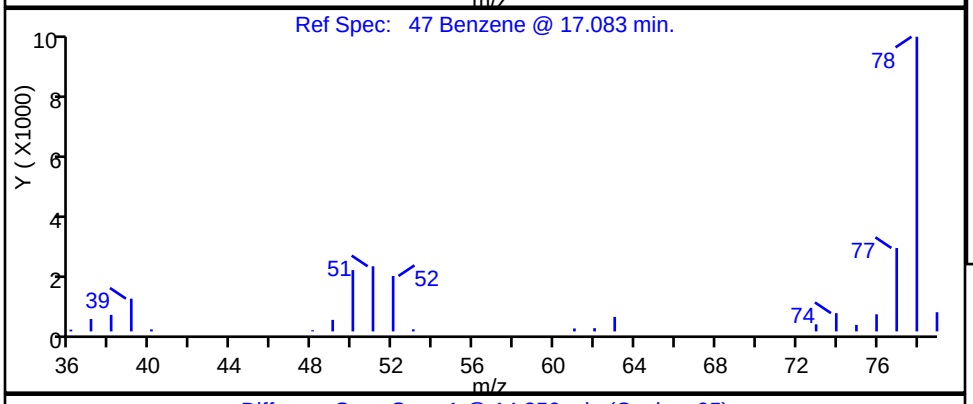
47 Benzene, CAS: 71-43-2

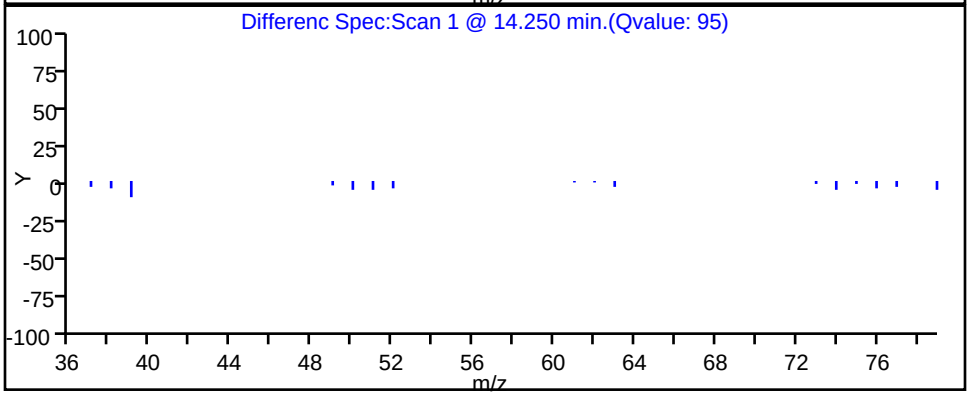












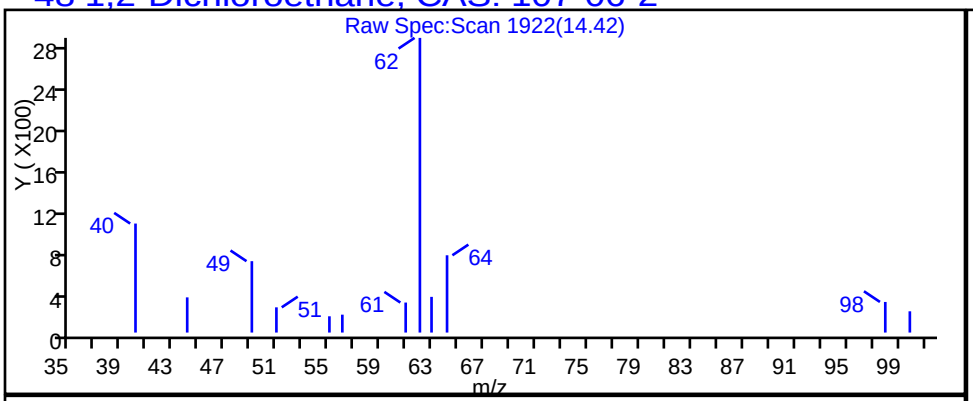
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

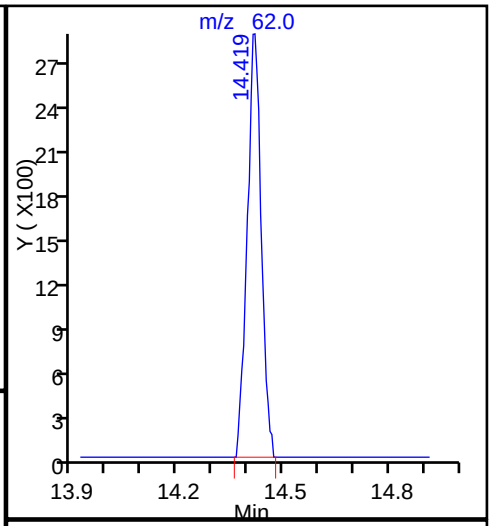
TestAmerica Burlington

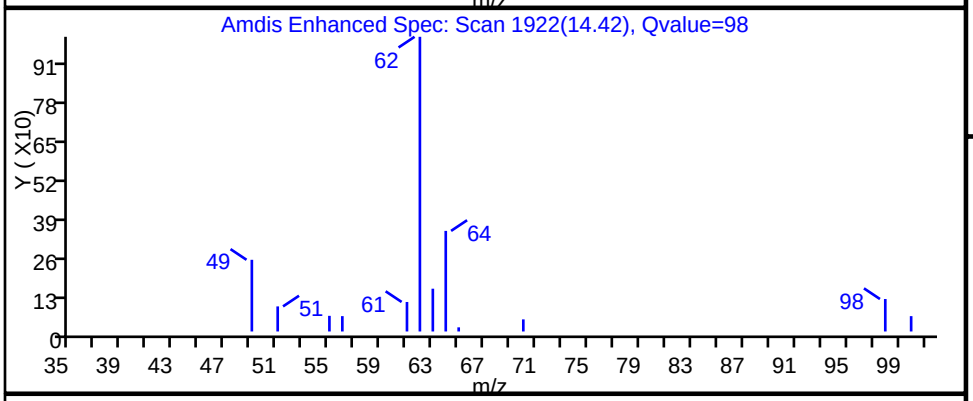
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

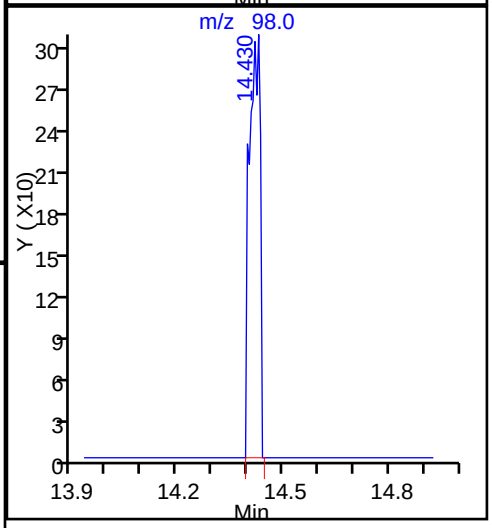
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

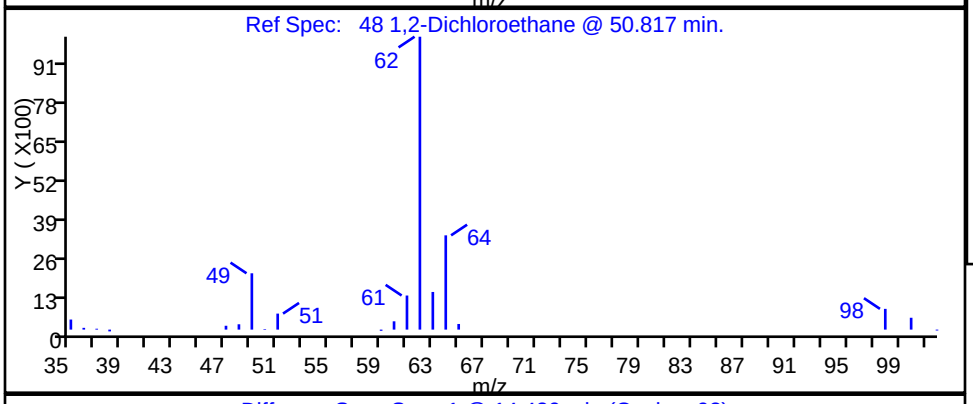
48 1,2-Dichloroethane, CAS: 107-06-2

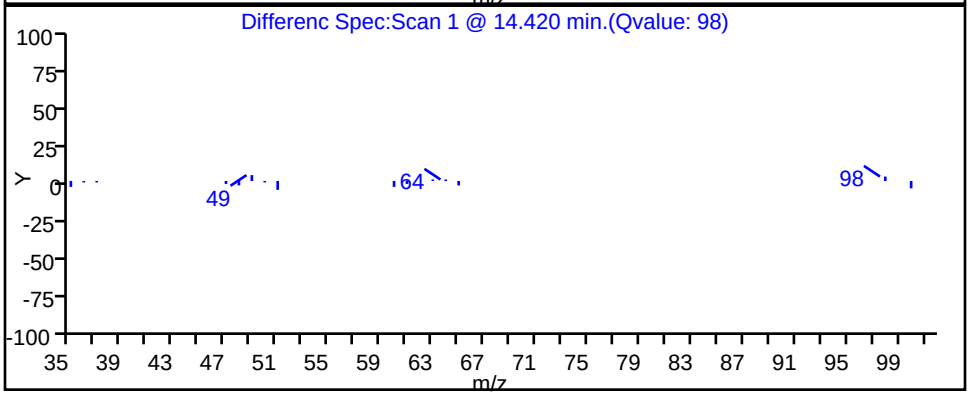












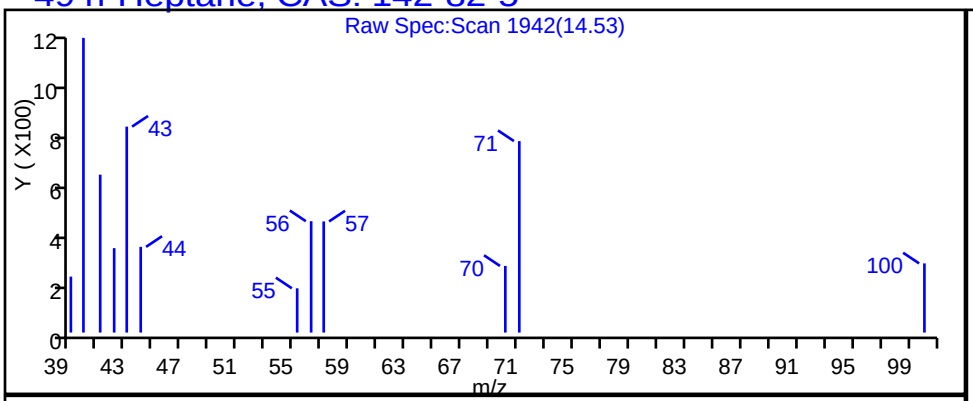
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

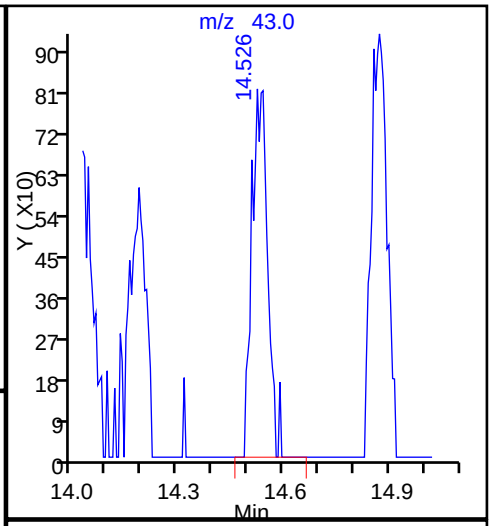
TestAmerica Burlington

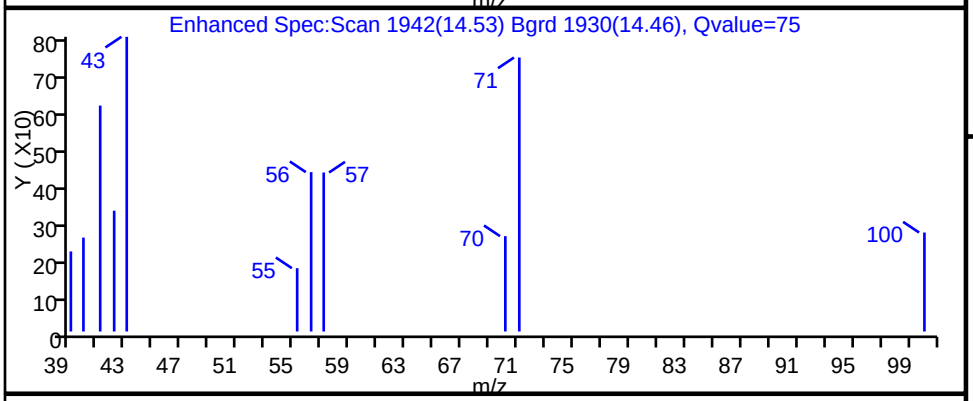
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

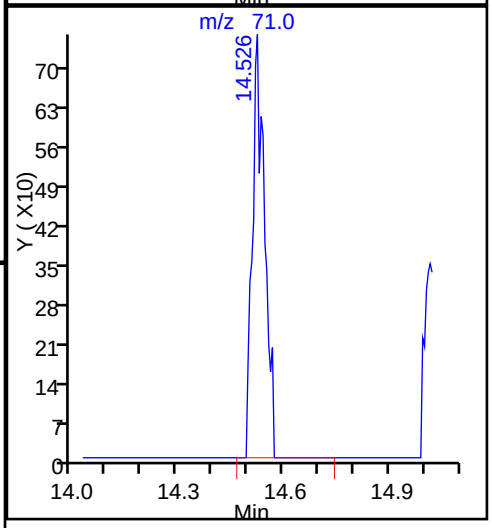
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

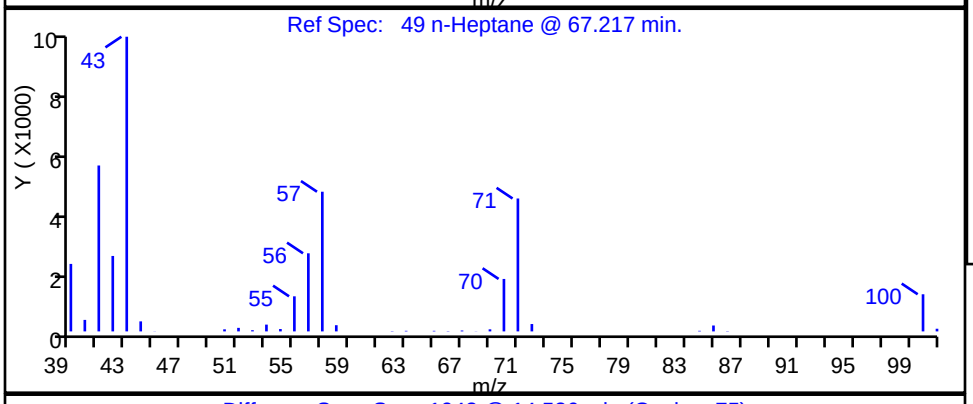
49 n-Heptane, CAS: 142-82-5

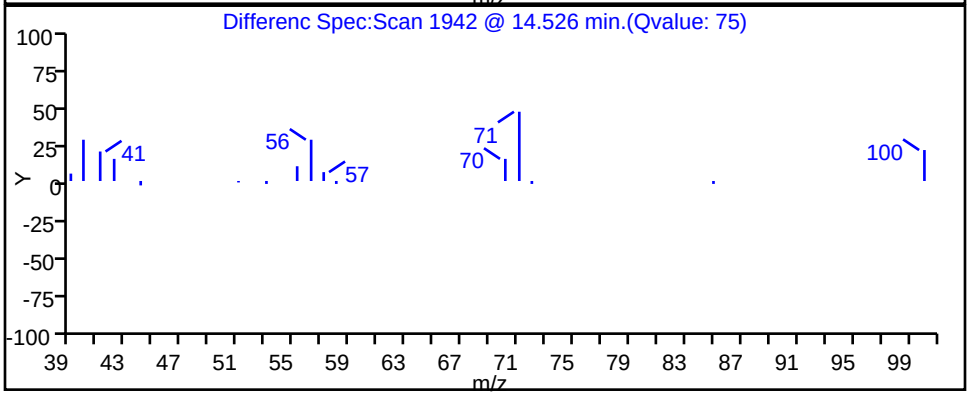










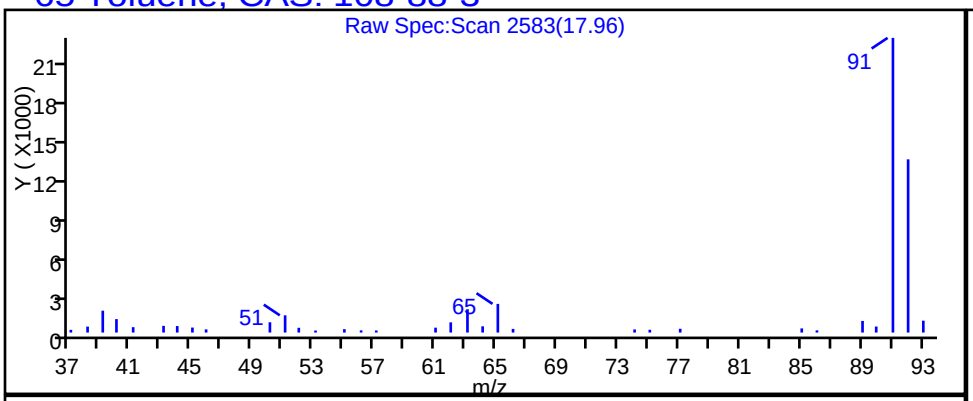


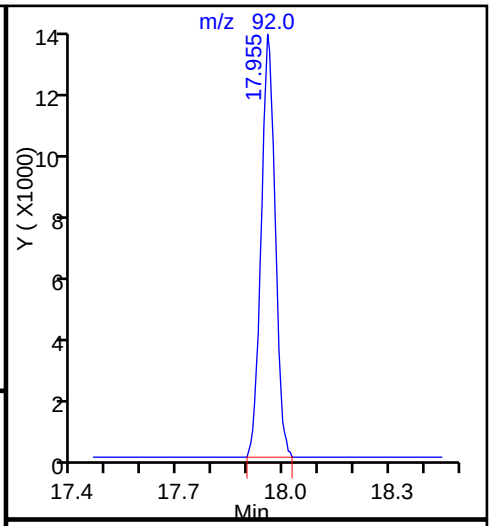
Report Date: 30-Sep-2015 14:17:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

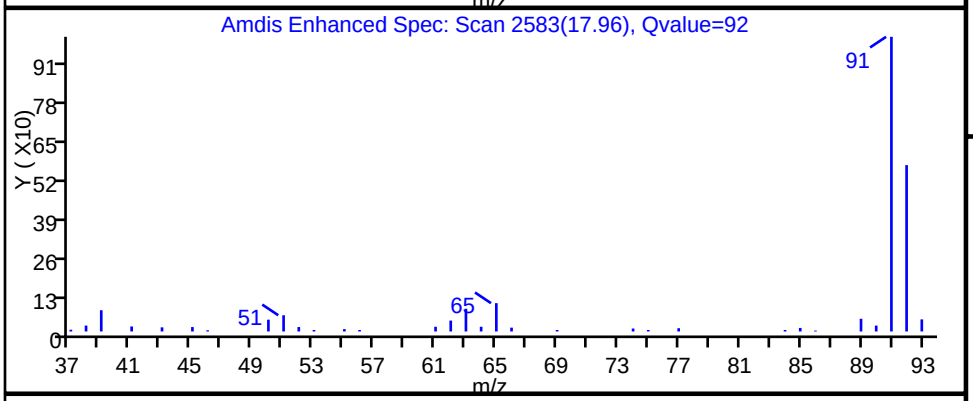
TestAmerica Burlington

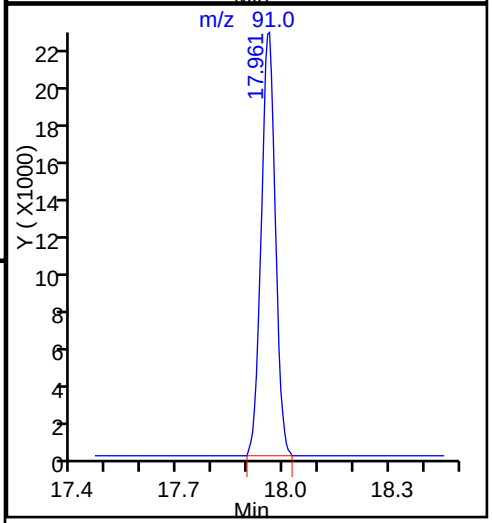
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

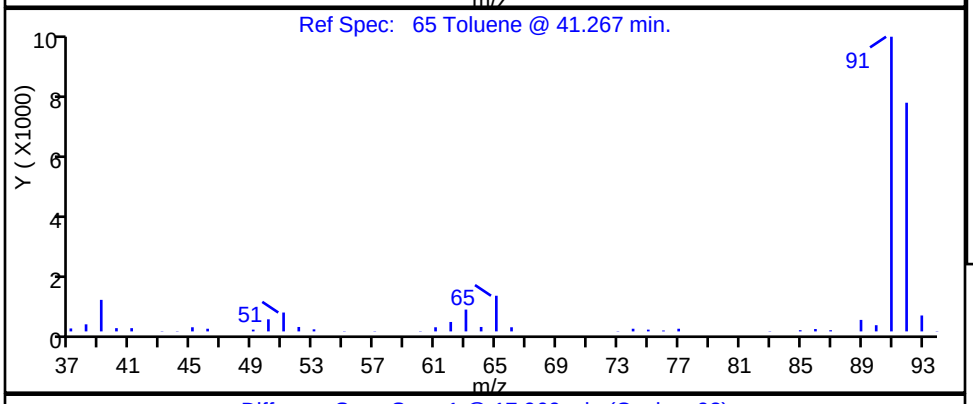
65 Toluene, CAS: 108-88-3

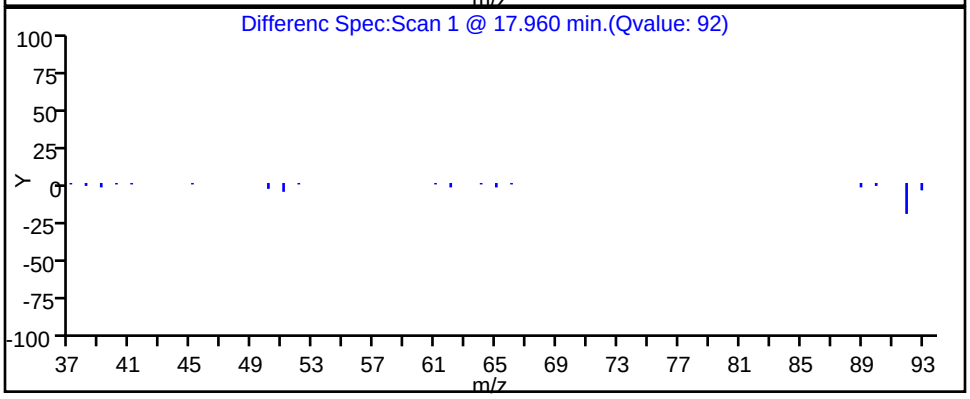












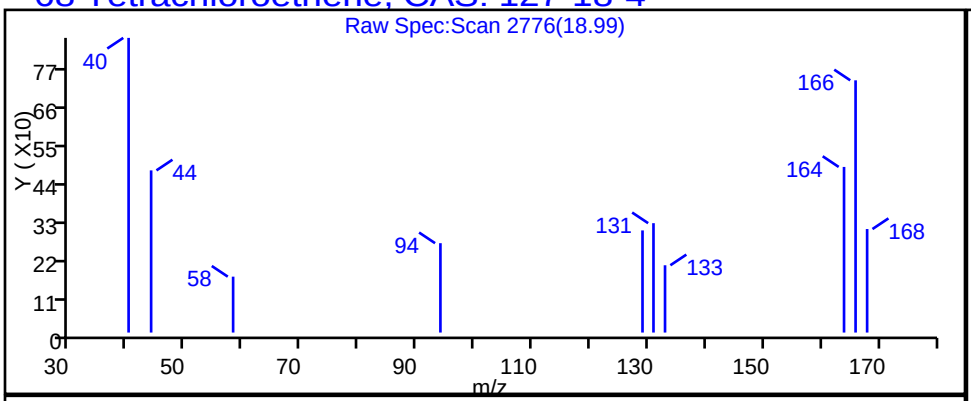
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

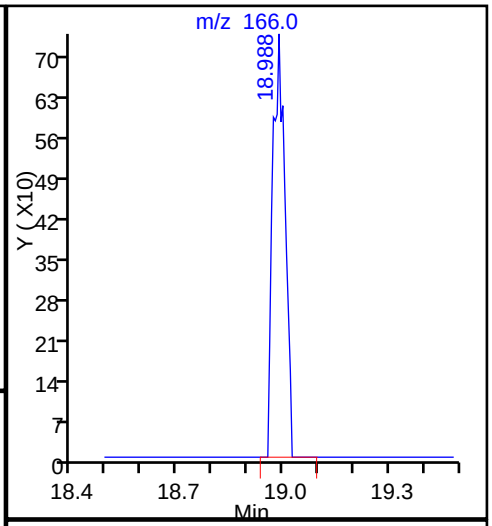
TestAmerica Burlington

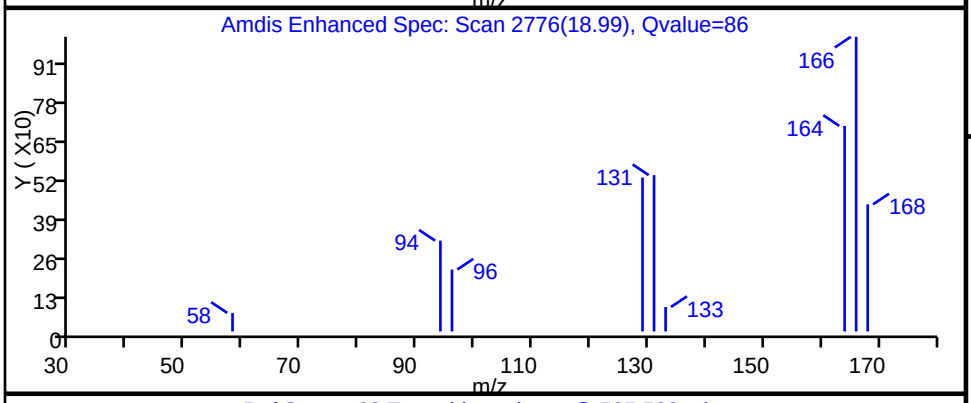
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

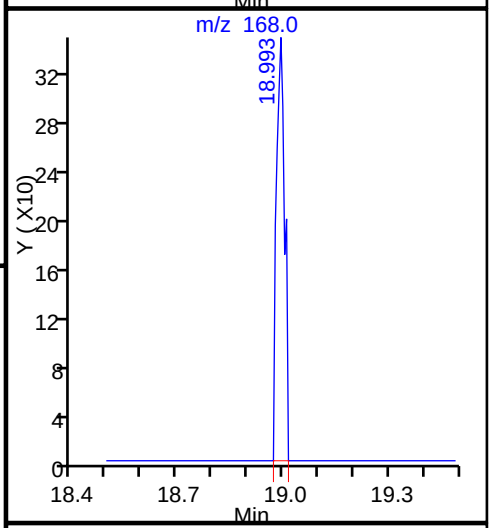
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

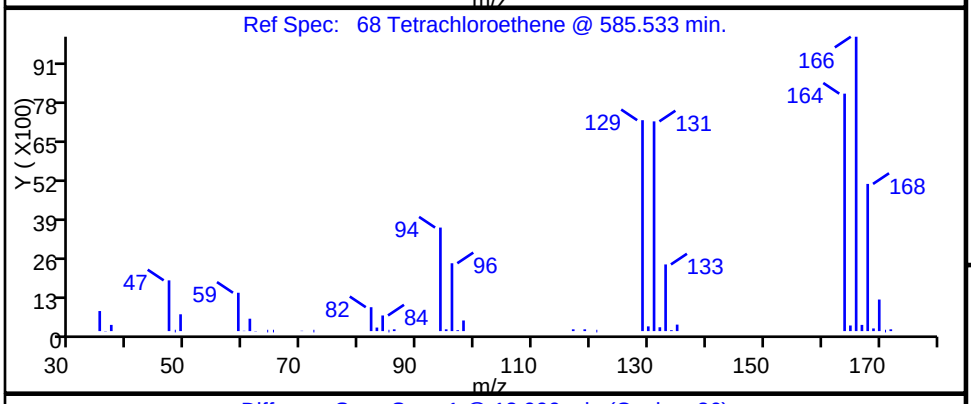
68 Tetrachloroethene, CAS: 127-18-4

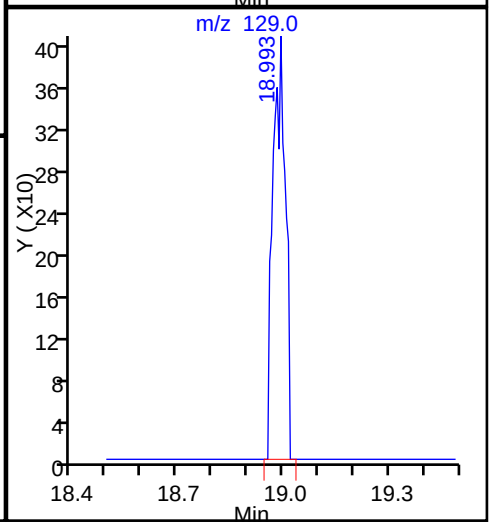


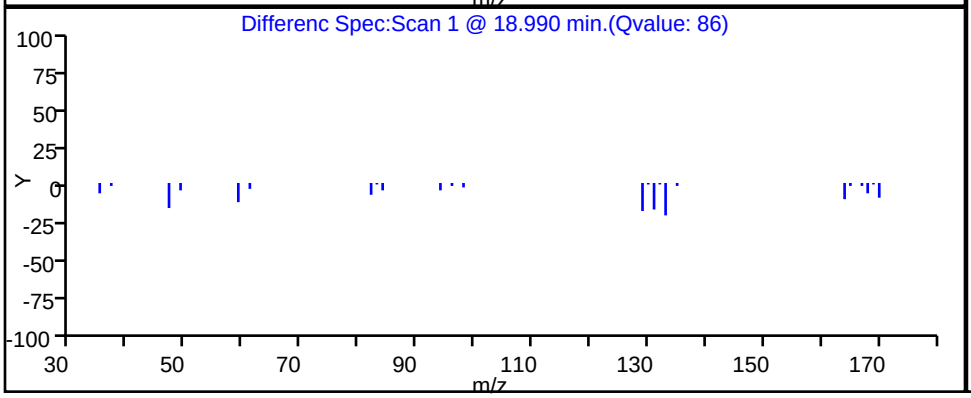










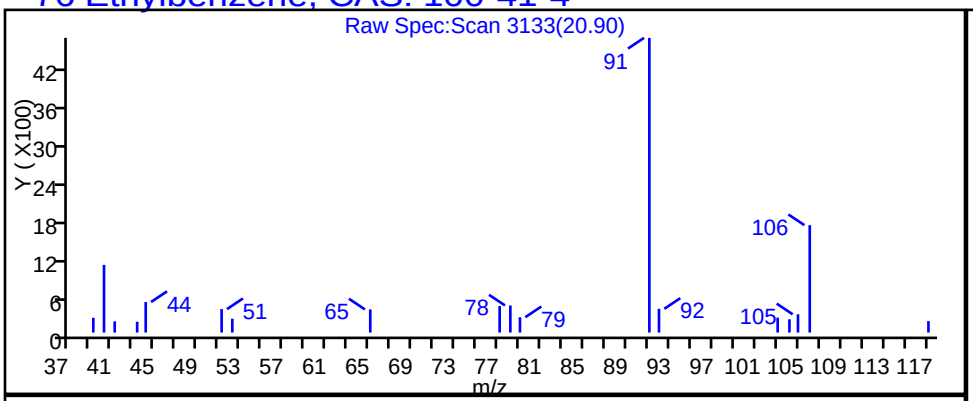


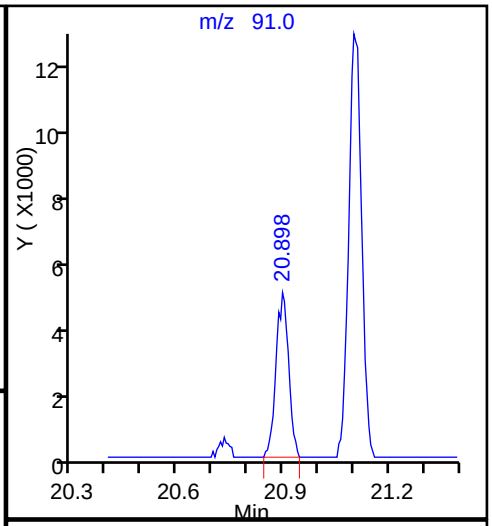
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

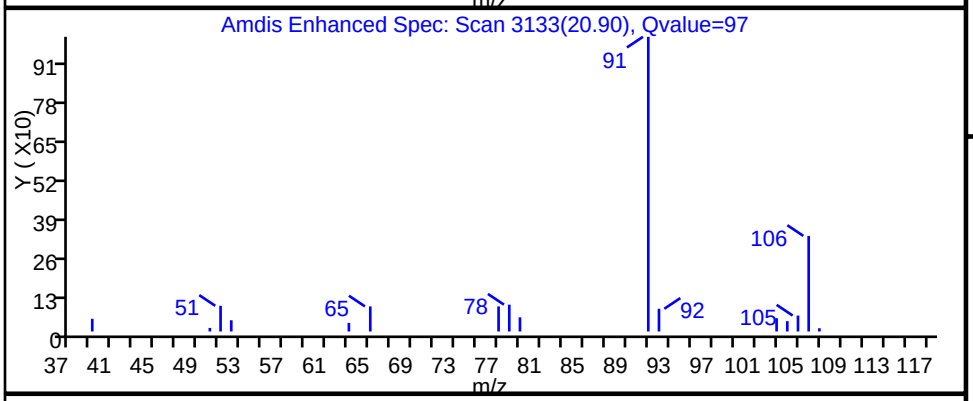
TestAmerica Burlington

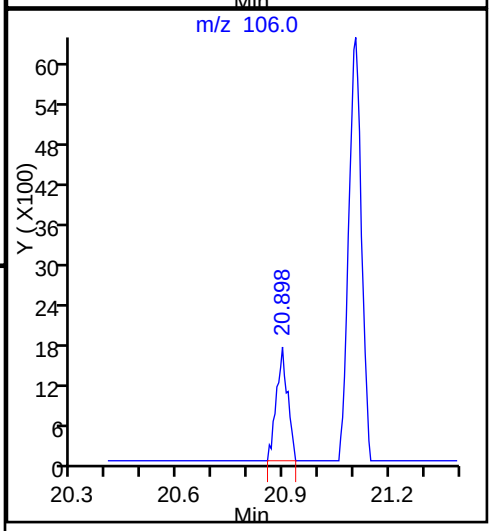
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

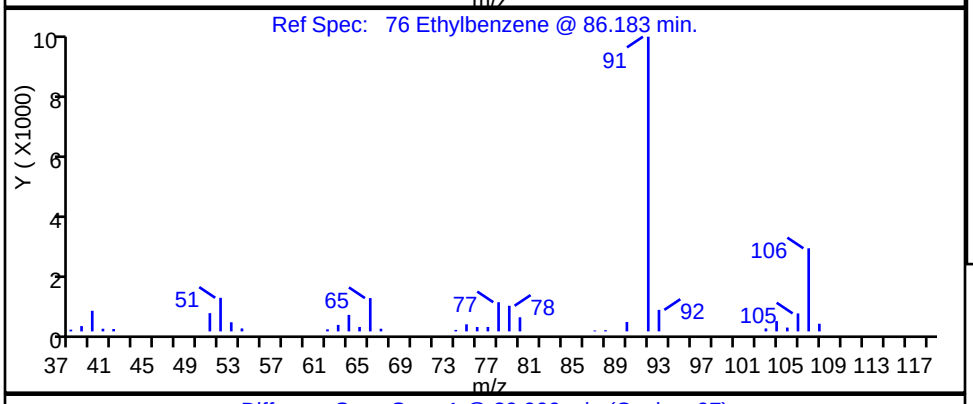
76 Ethylbenzene, CAS: 100-41-4

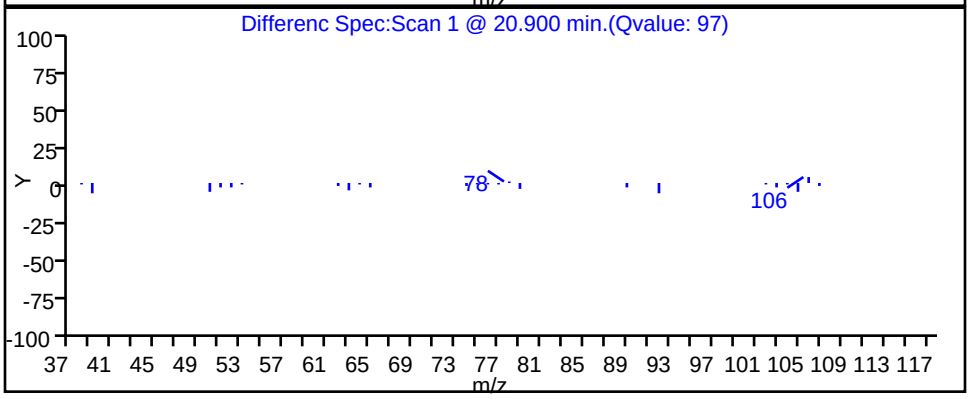










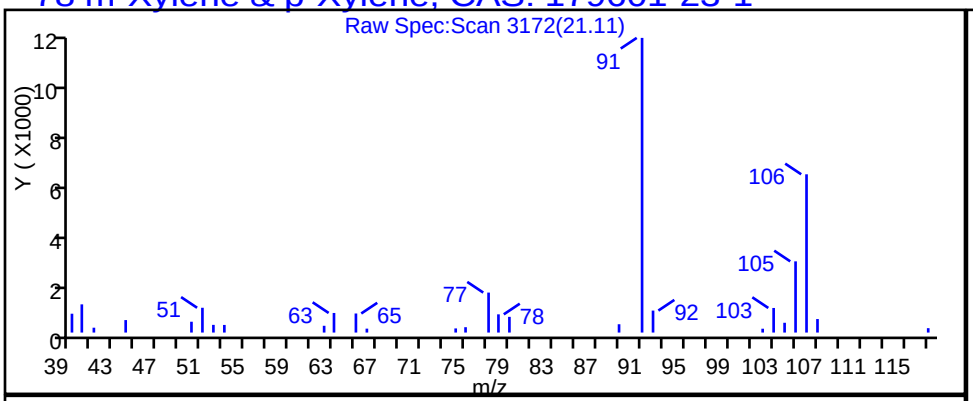


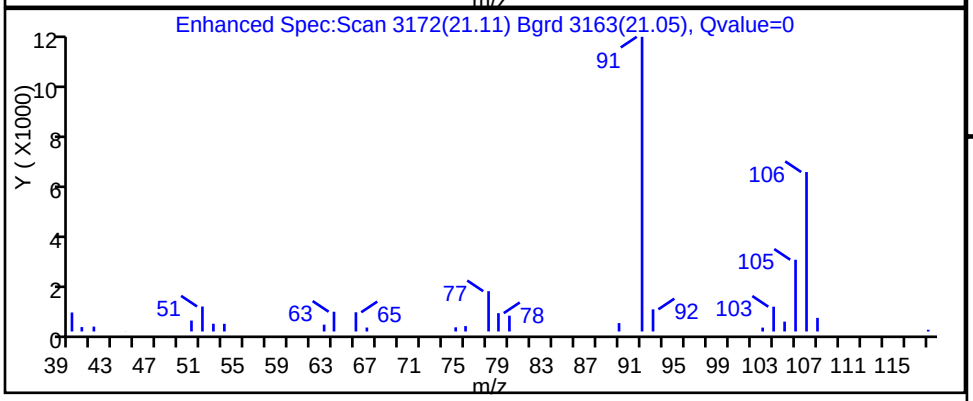
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

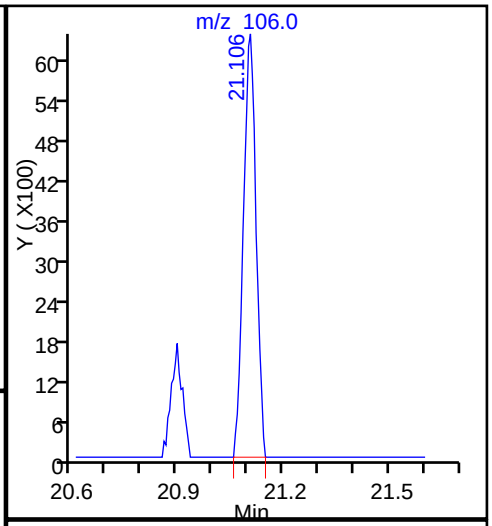
TestAmerica Burlington

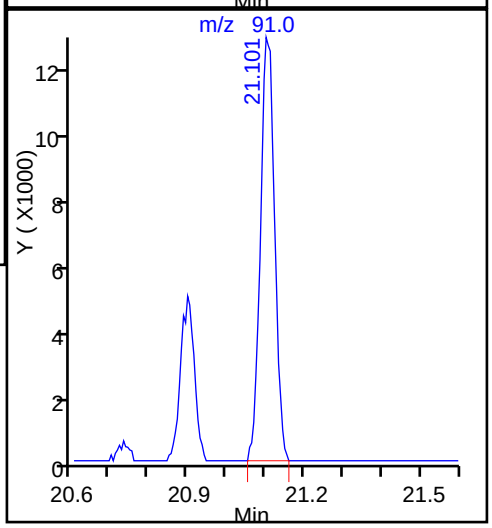
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









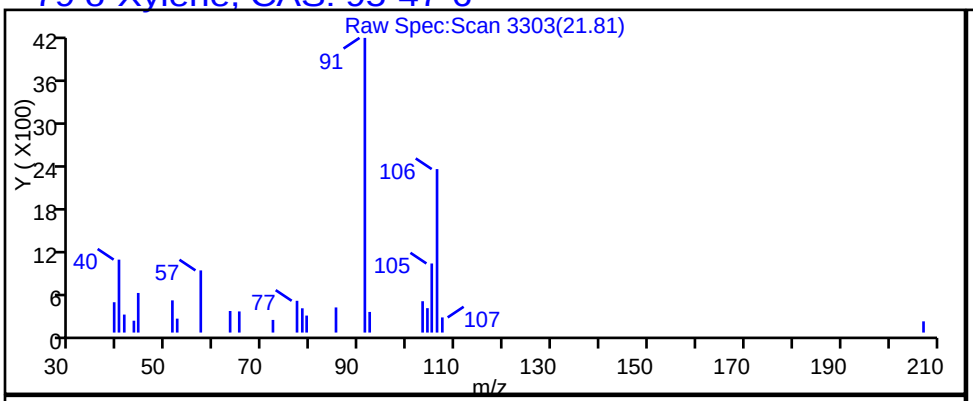
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

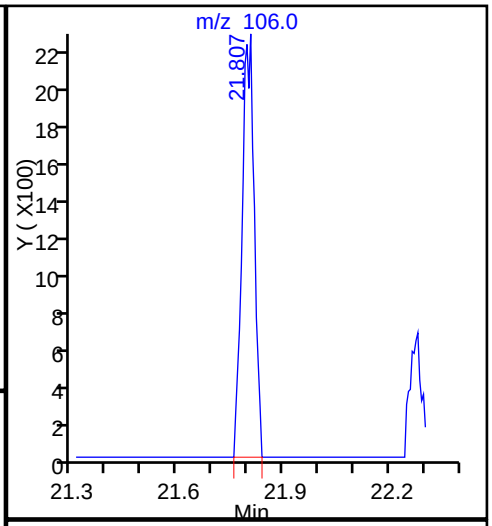
TestAmerica Burlington

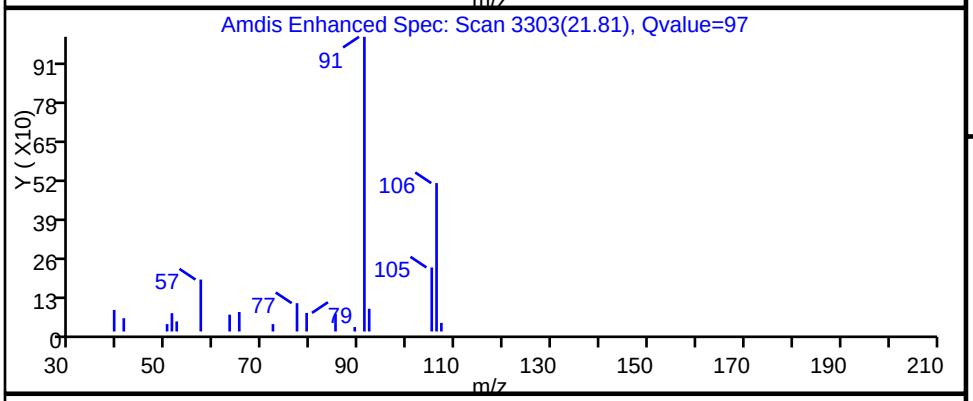
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

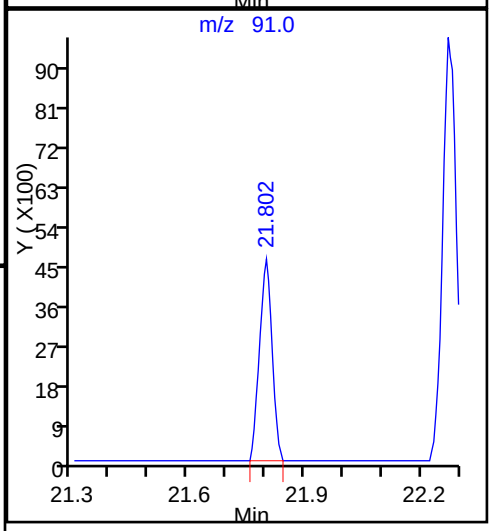
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

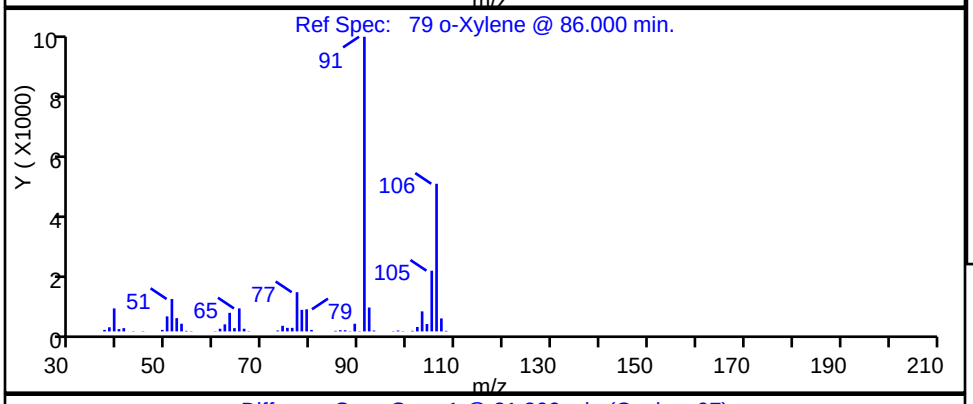
79 o-Xylene, CAS: 95-47-6

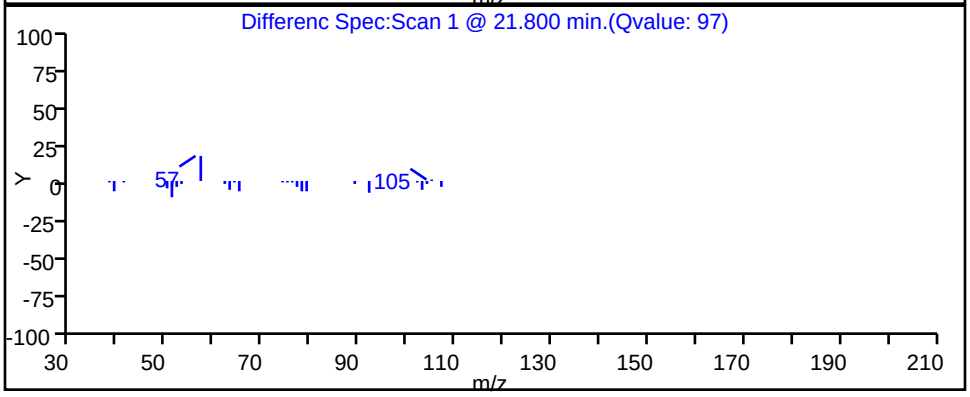












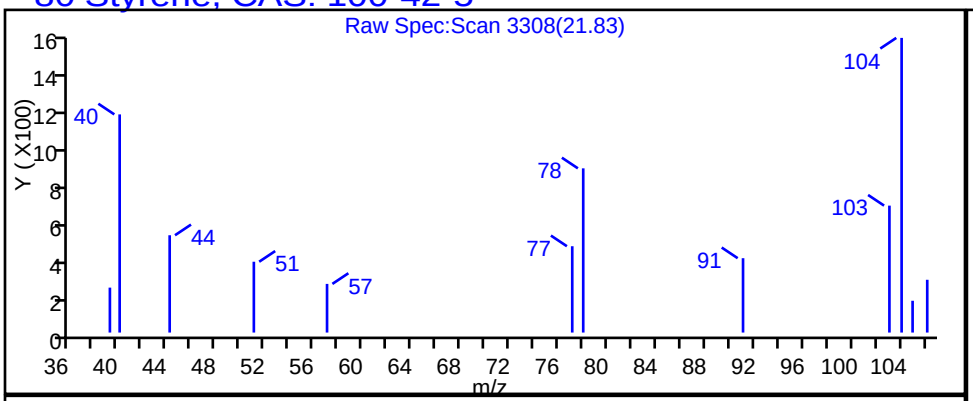
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

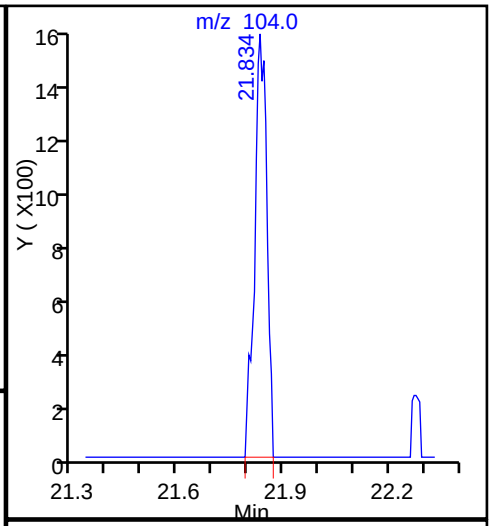
TestAmerica Burlington

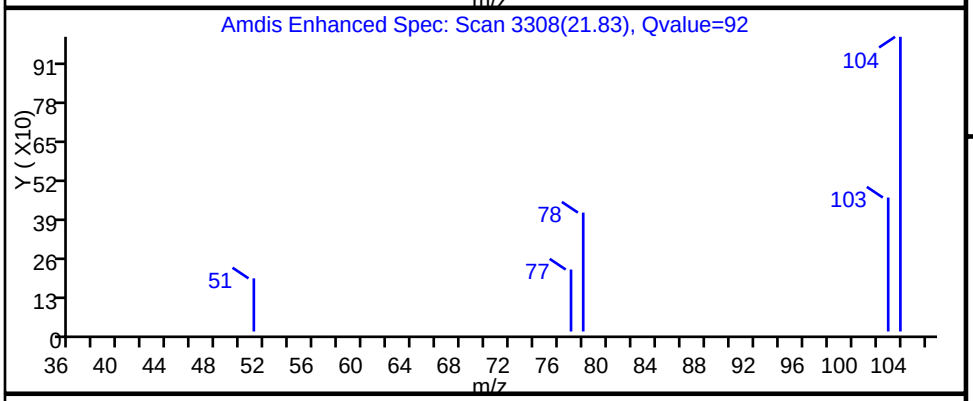
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

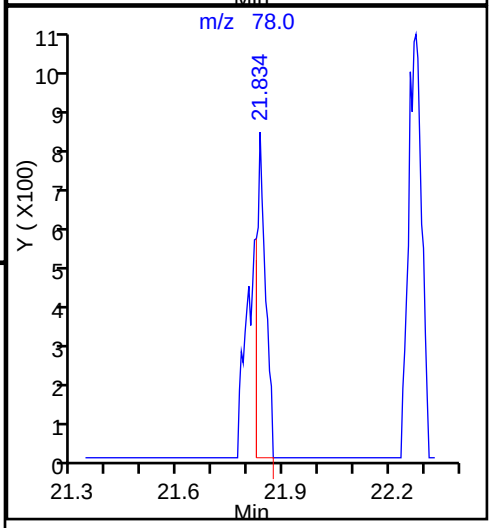
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

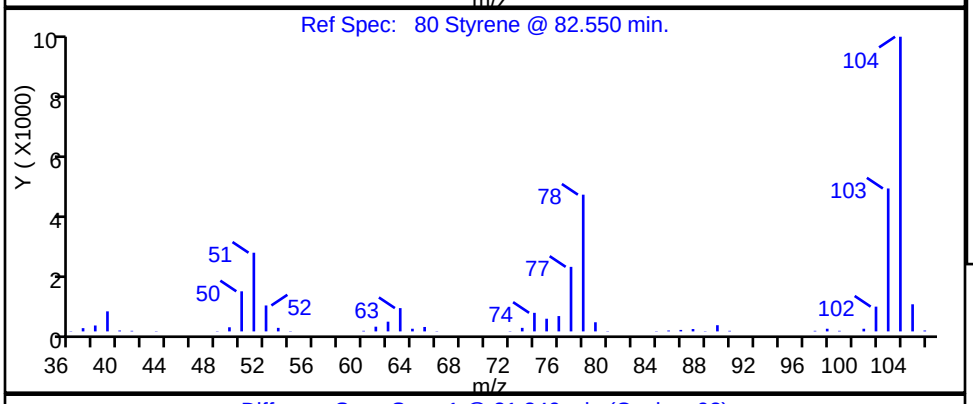
80 Styrene, CAS: 100-42-5

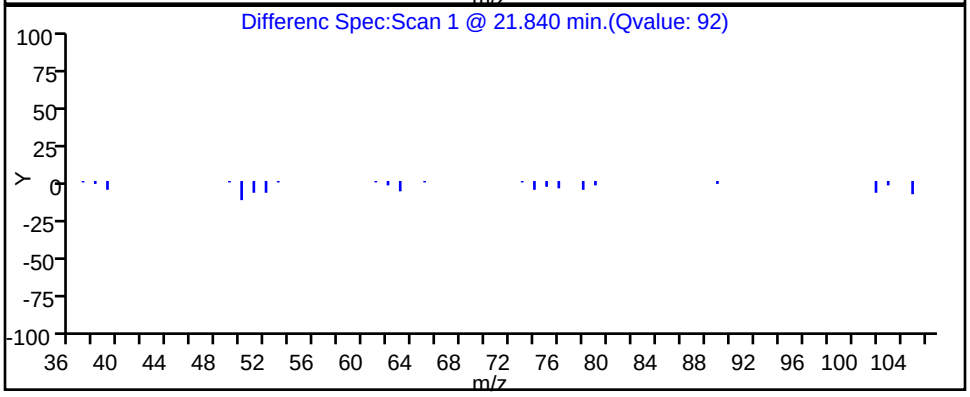










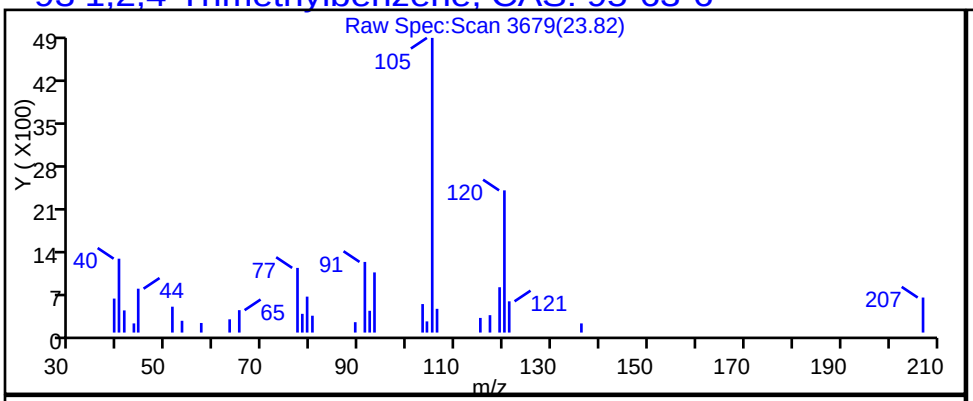


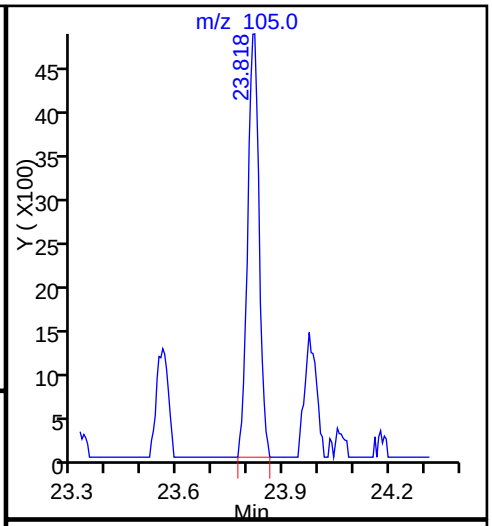
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

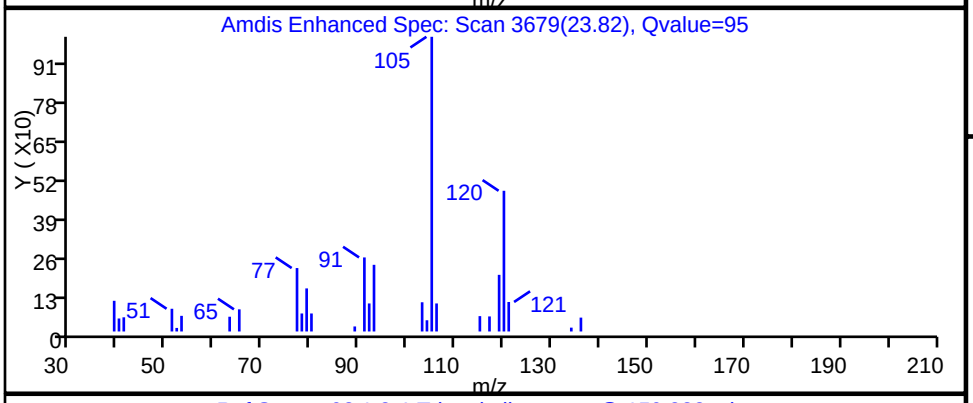
TestAmerica Burlington

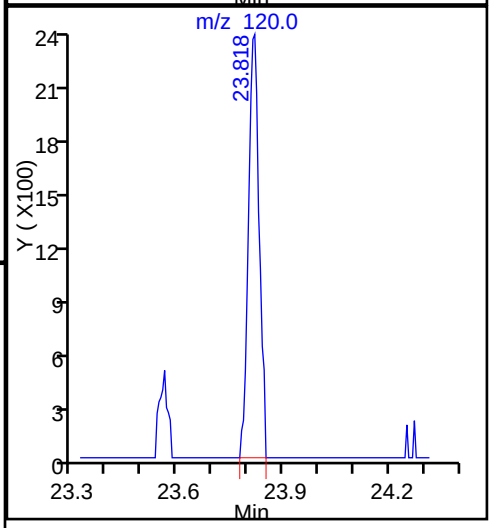
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

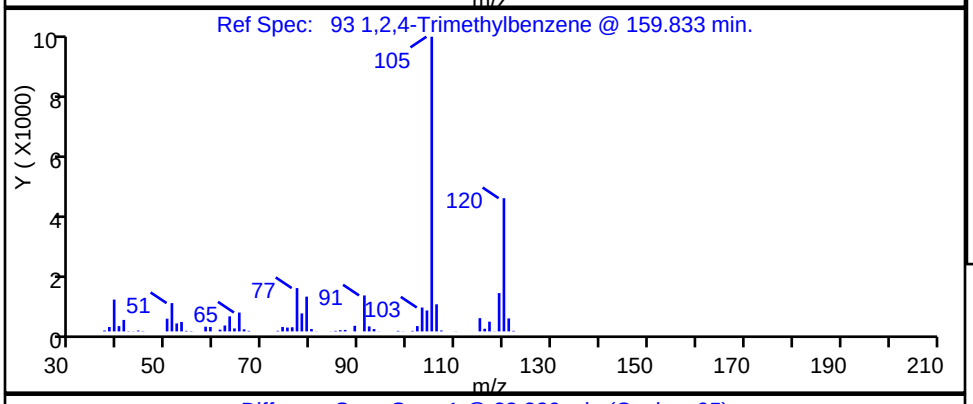
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

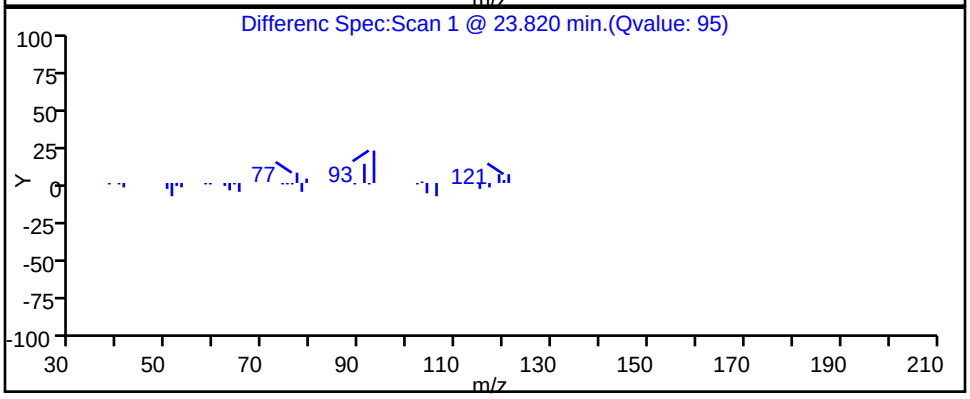












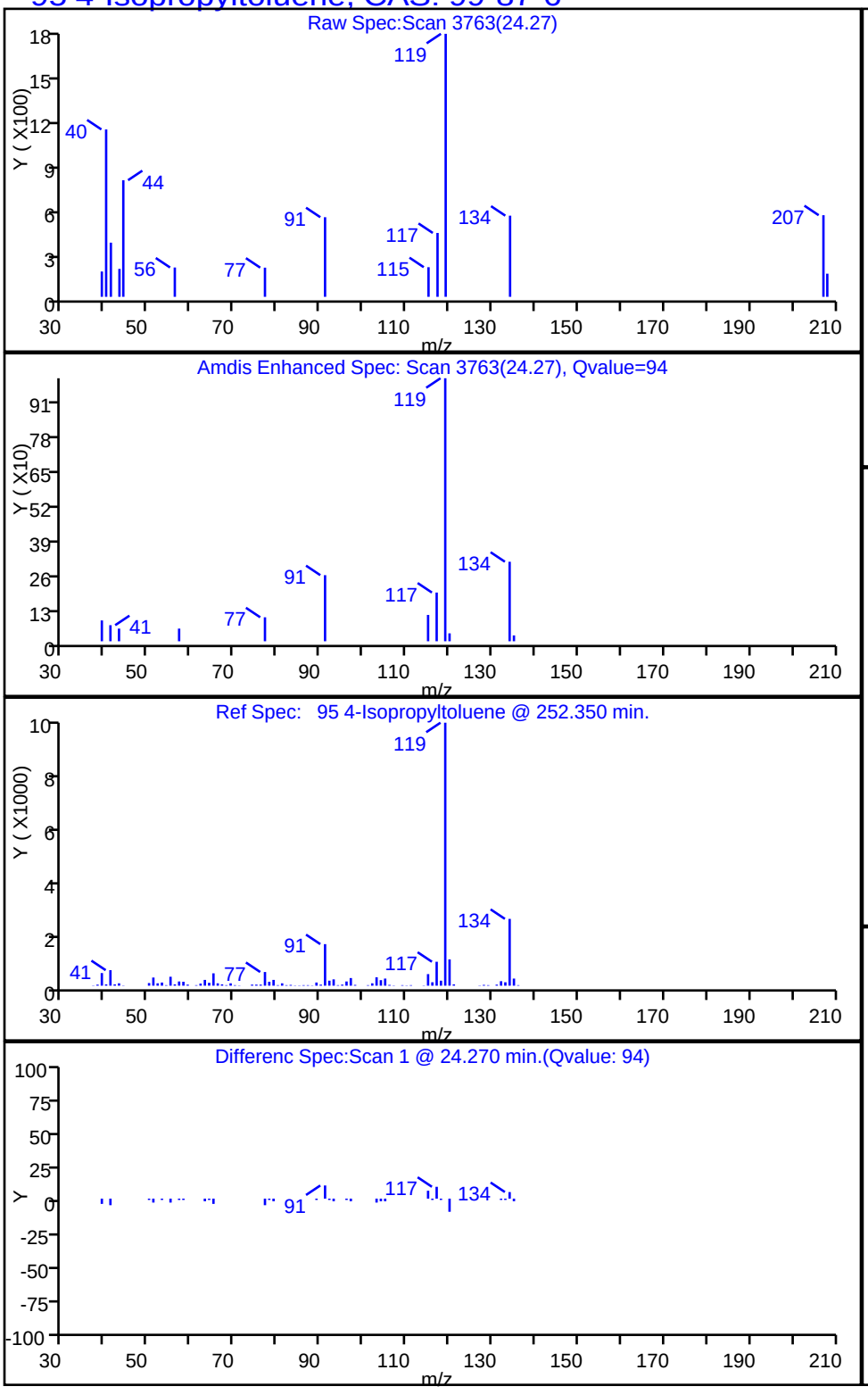
Report Date: 30-Sep-2015 14:17:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

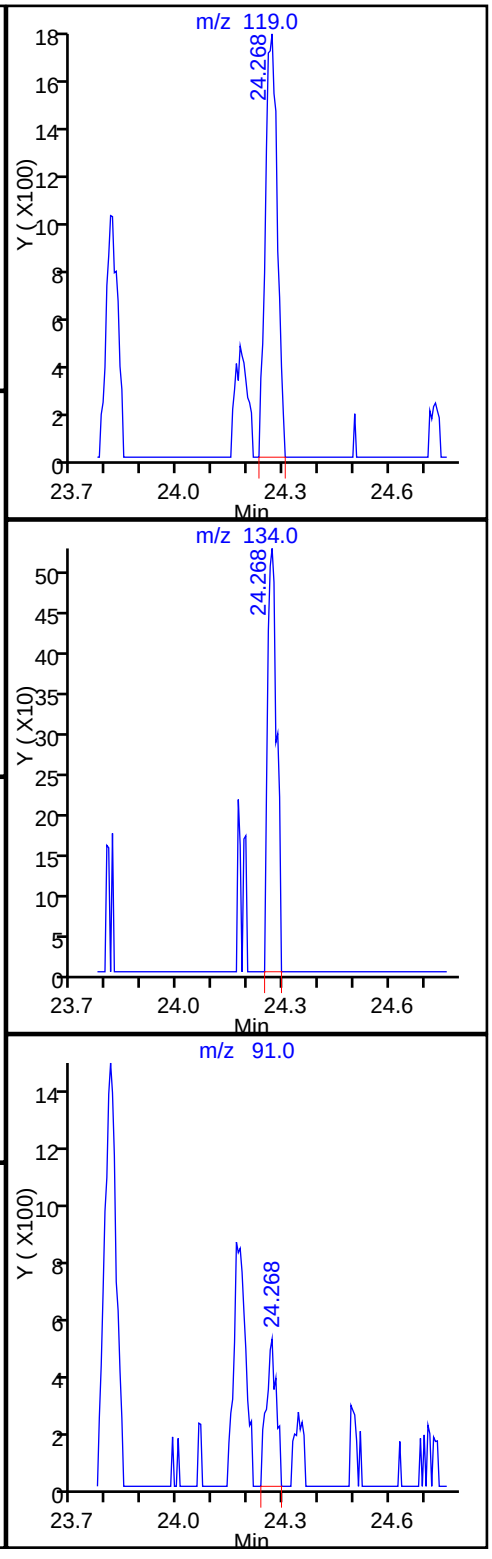
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d

Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

95 4-Isopropyltoluene, CAS: 99-87-6





Manual Integration/User Assign Peak Report

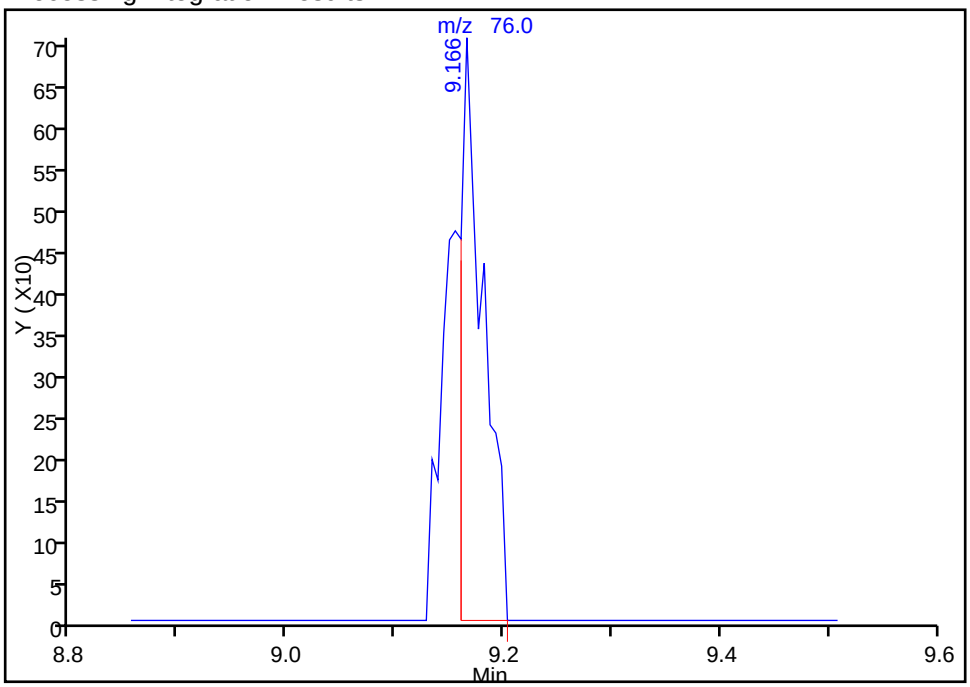
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0

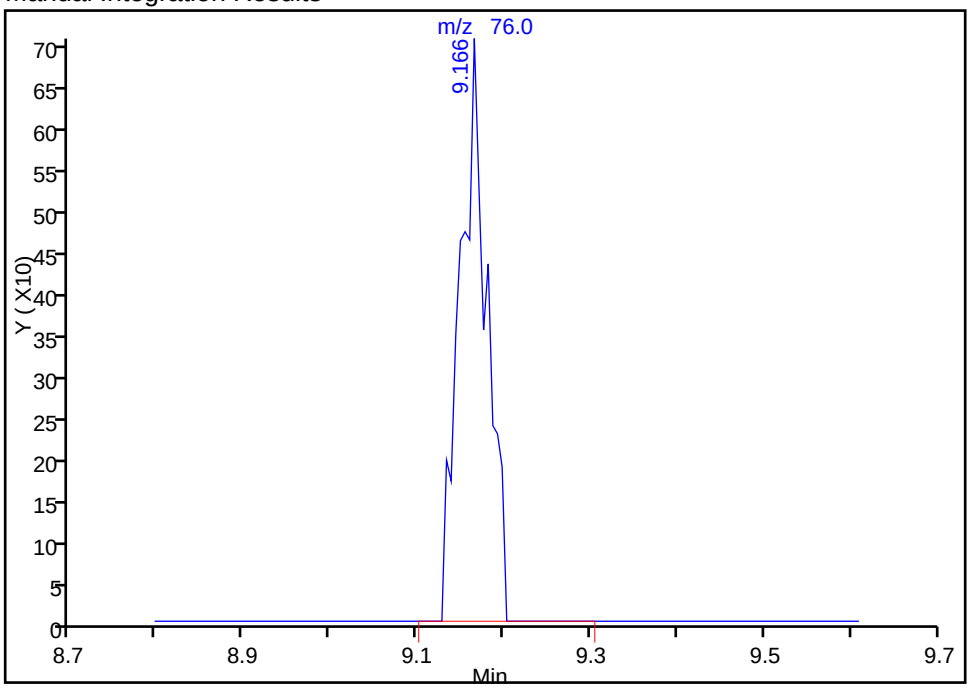
Processing Integration Results

RT: 9.17
Area: 1005
Amount: 0.029470
Amount Units: ppb v/v



Manual Integration Results

RT: 9.17
Area: 1533
Amount: 0.044952
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

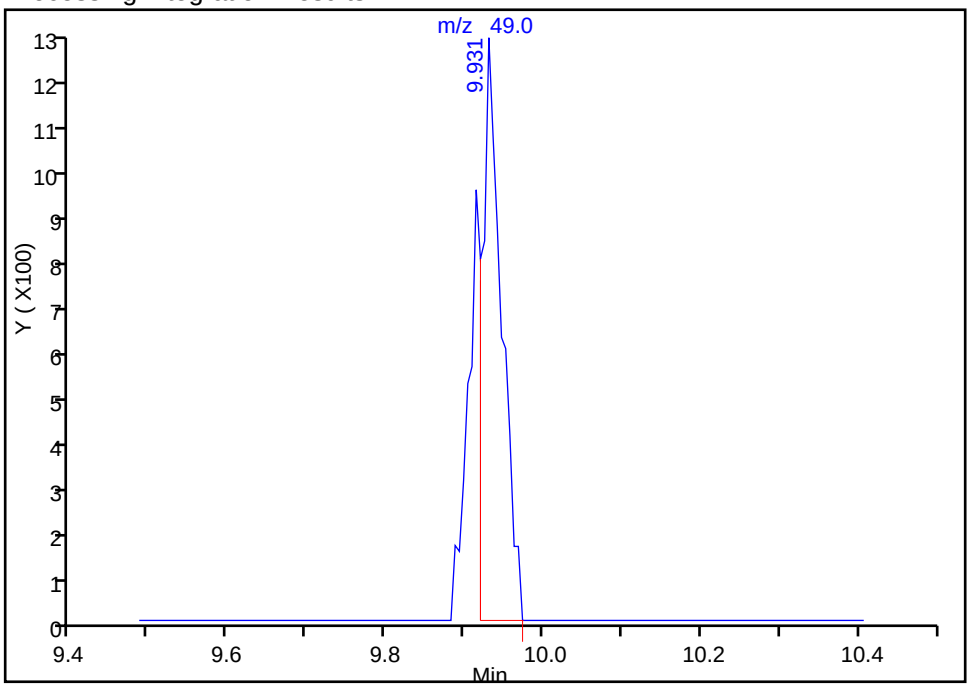
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

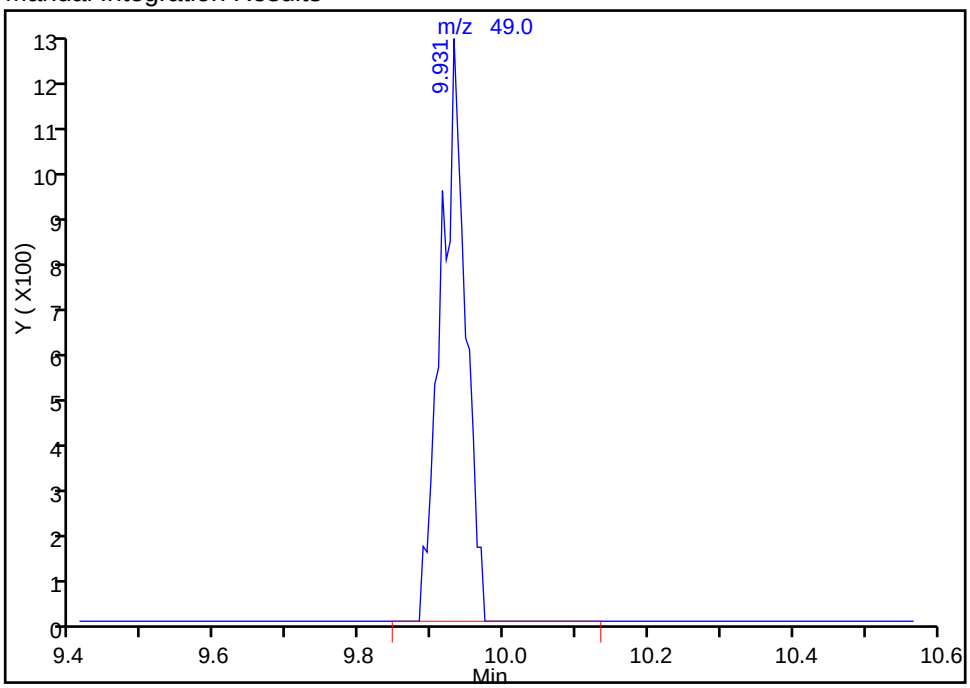
Processing Integration Results

RT: 9.93
Area: 2211
Amount: 0.196819
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 3073
Amount: 0.273552
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

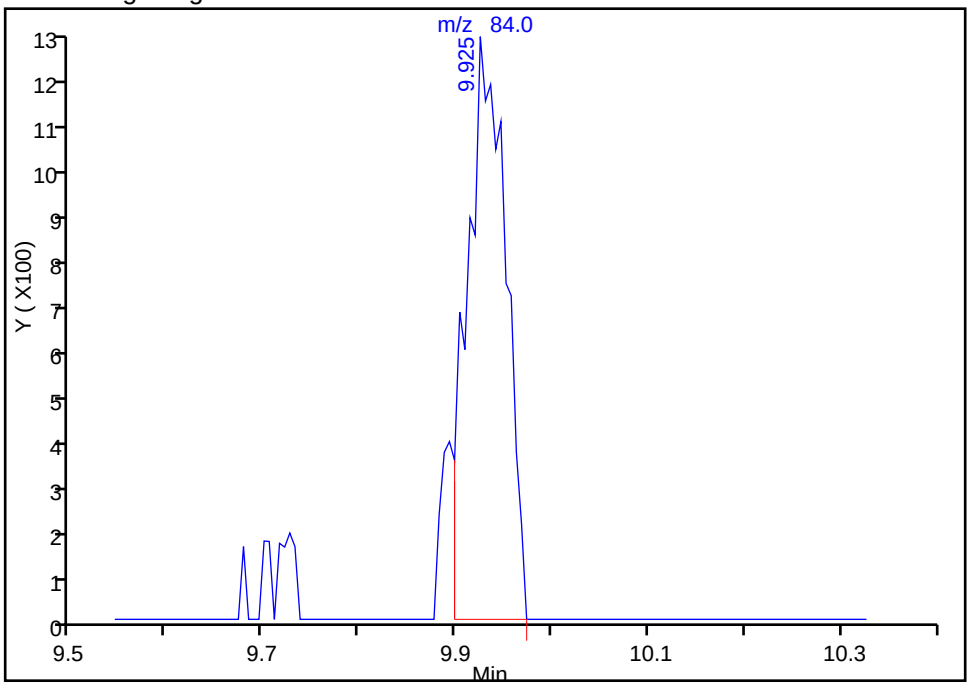
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

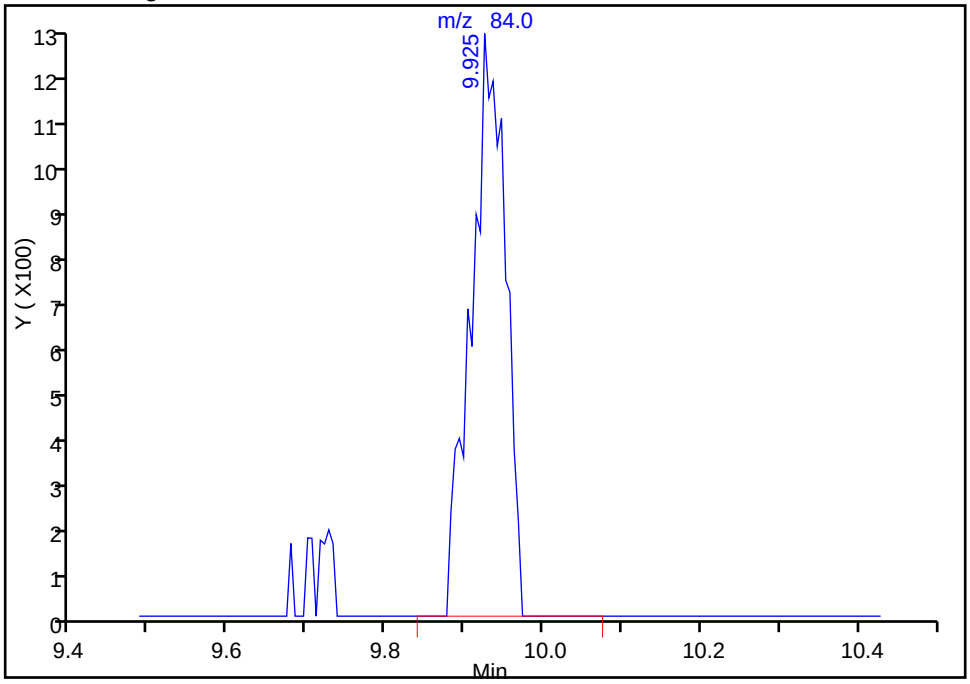
Processing Integration Results

RT: 9.93
Area: 3454
Amount: 0.196819
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 3761
Amount: 0.273552
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

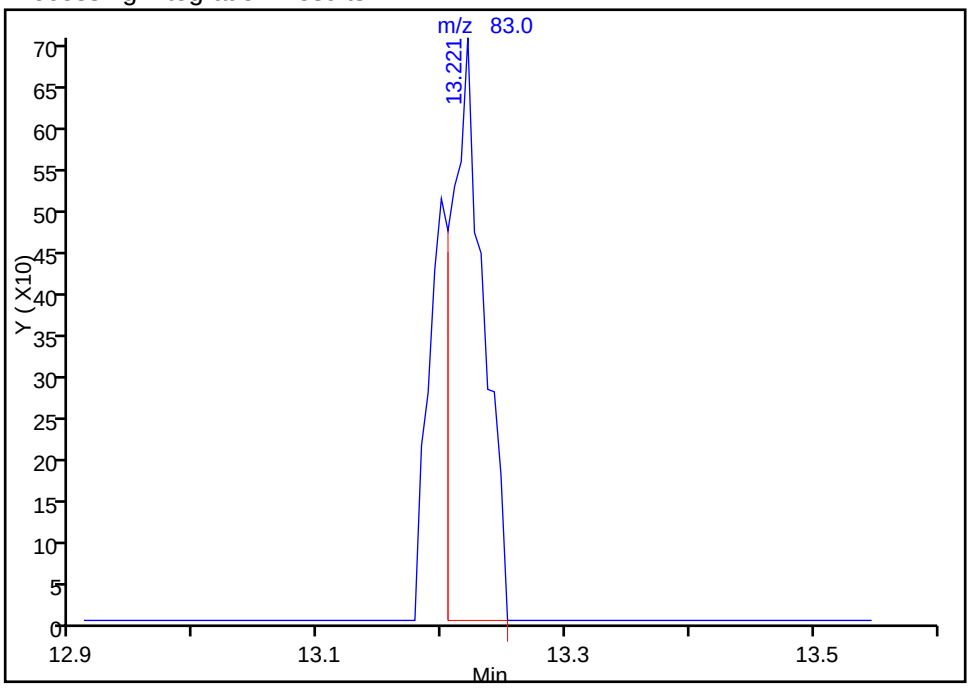
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

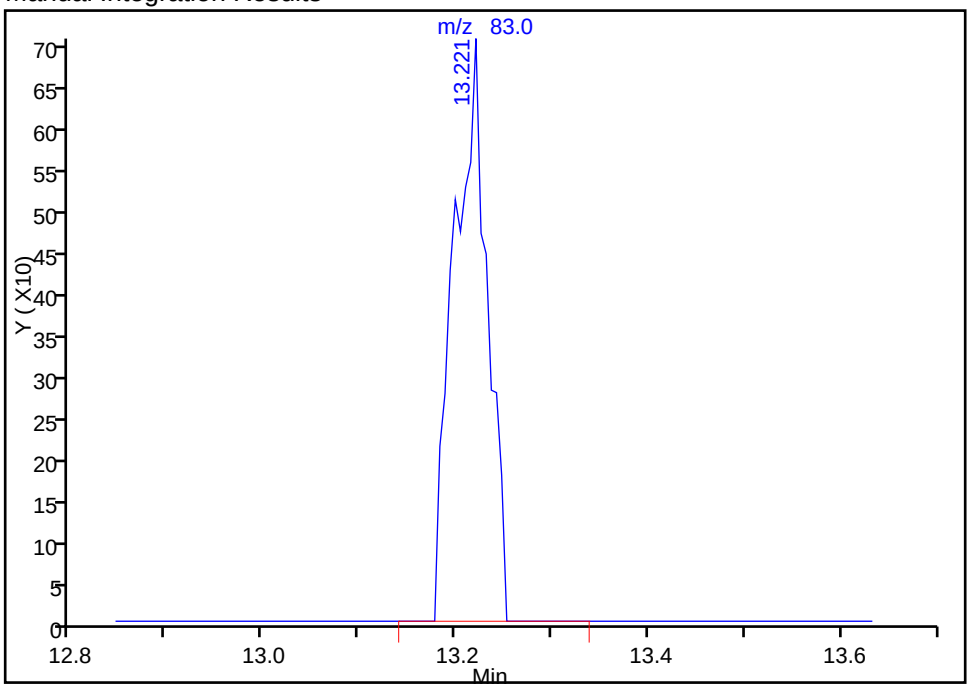
Processing Integration Results

RT: 13.22
Area: 1255
Amount: 0.037195
Amount Units: ppb v/v



Manual Integration Results

RT: 13.22
Area: 1712
Amount: 0.050740
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

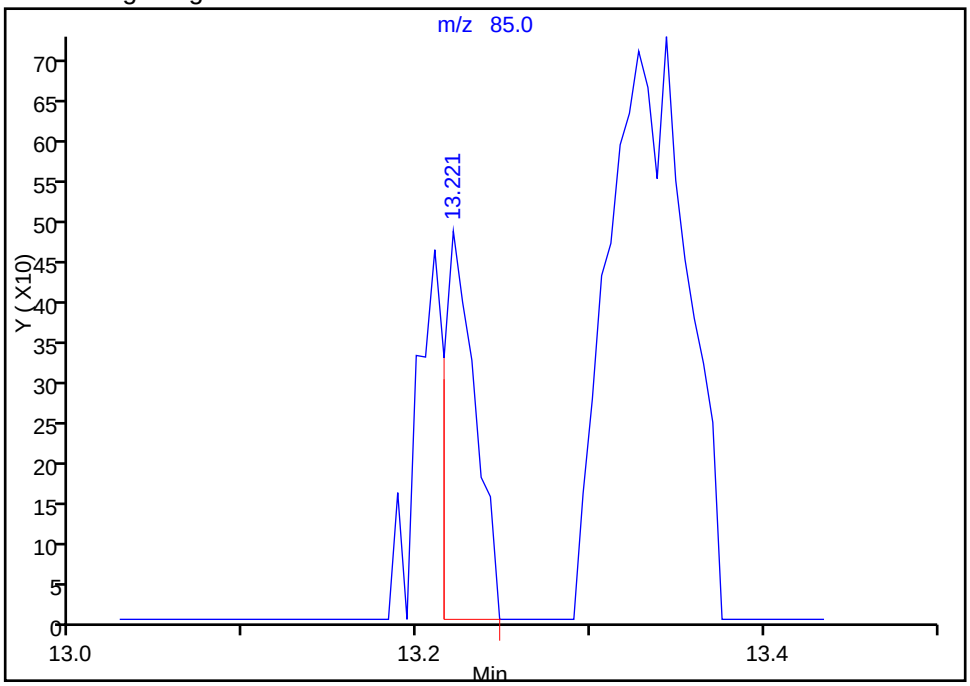
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

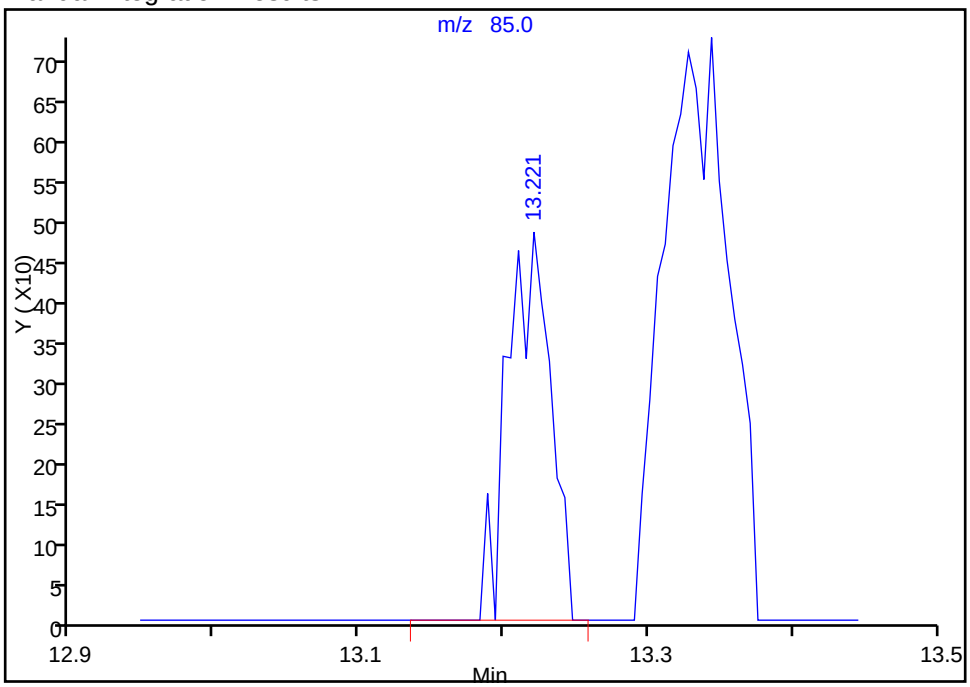
Processing Integration Results

RT: 13.22
Area: 593
Amount: 0.037195
Amount Units: ppb v/v



Manual Integration Results

RT: 13.22
Area: 1000
Amount: 0.050740
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

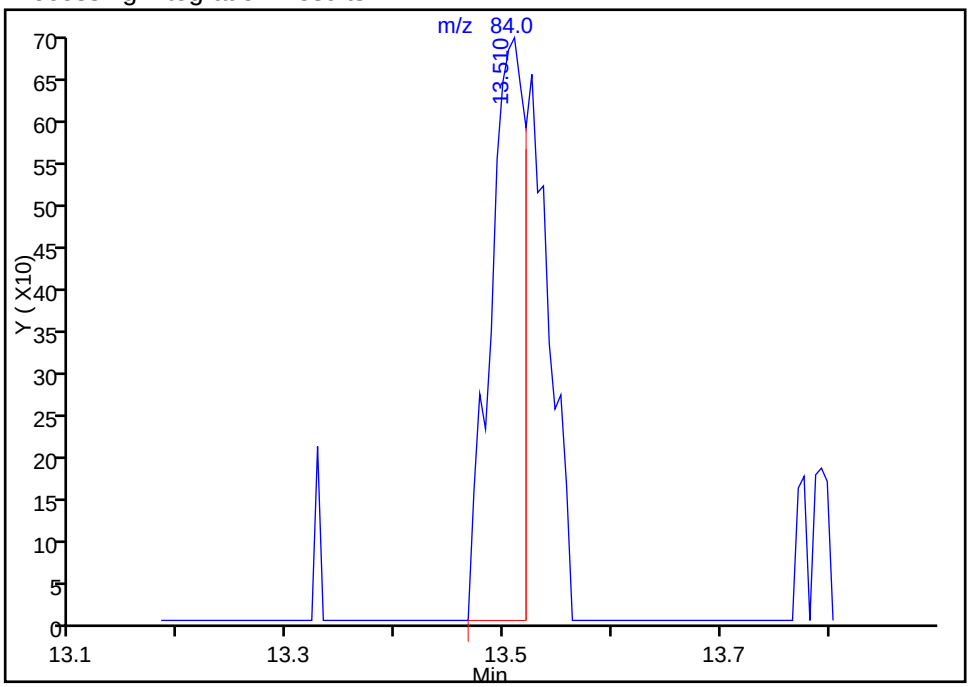
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

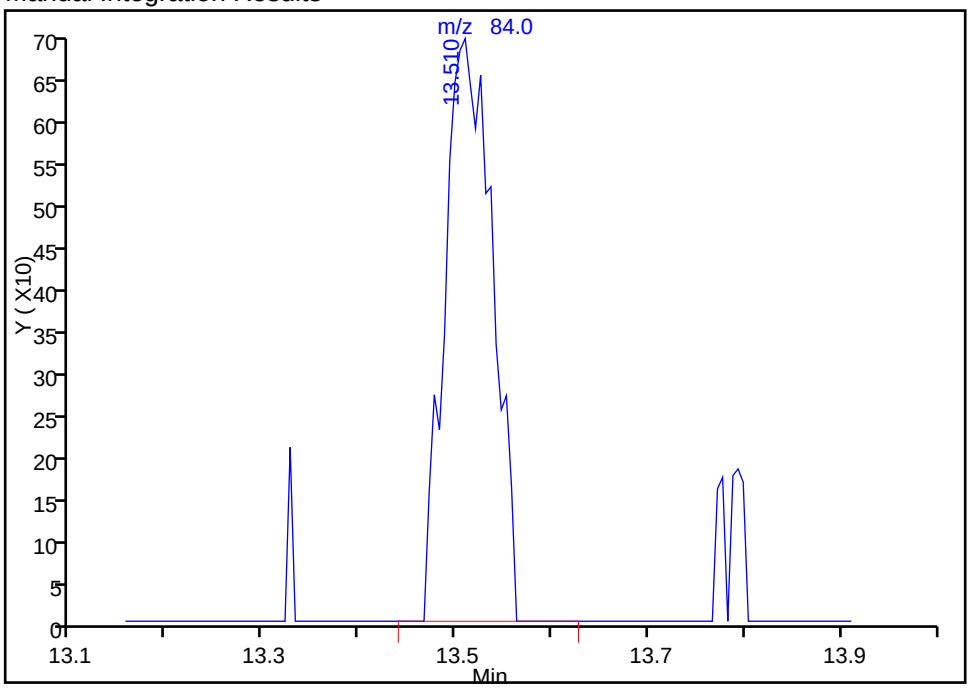
Processing Integration Results

RT: 13.51
Area: 1549
Amount: 0.083573
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 2420
Amount: 0.130566
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

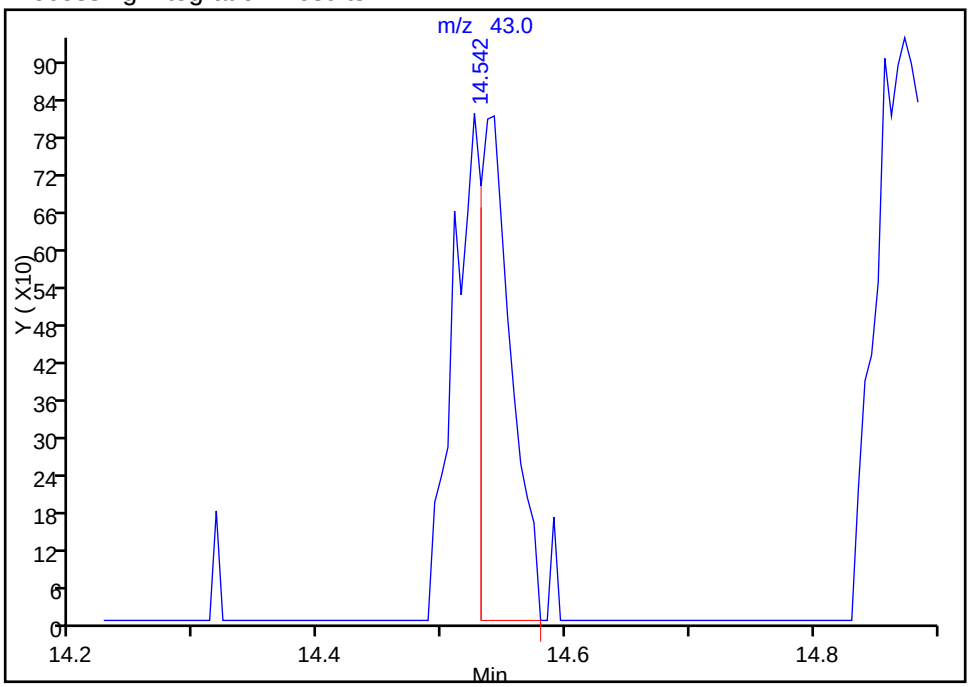
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

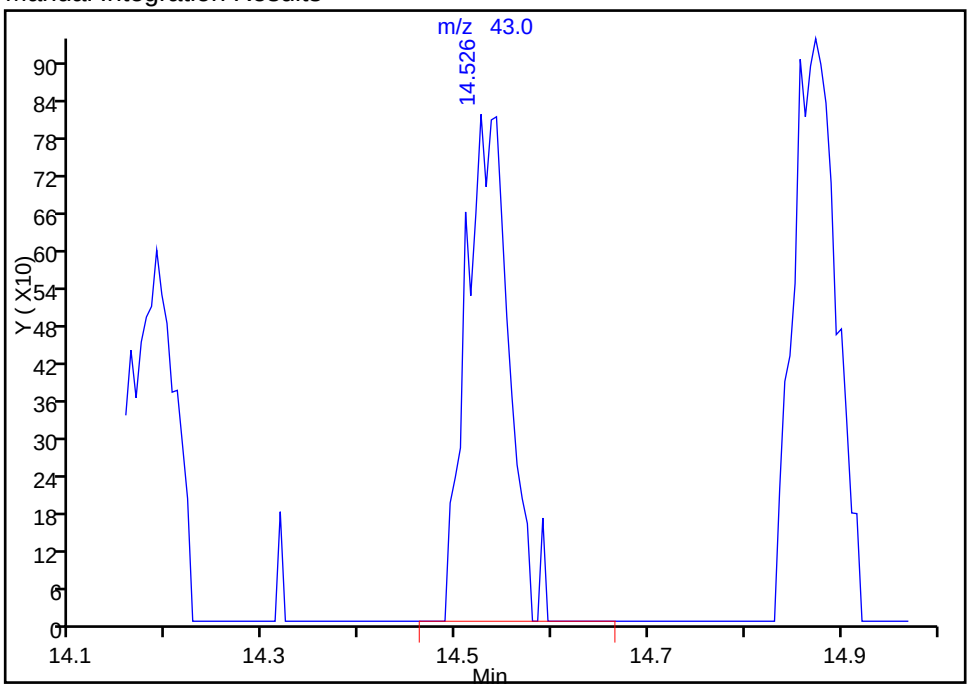
Processing Integration Results

RT: 14.54
Area: 1411
Amount: 0.090209
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 2534
Amount: 0.162006
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

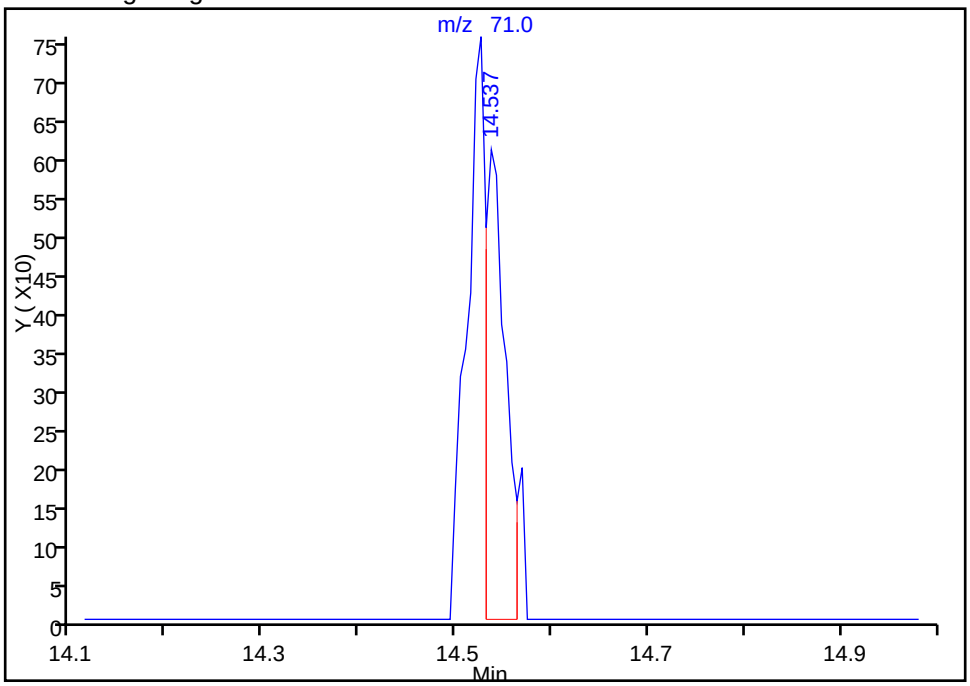
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

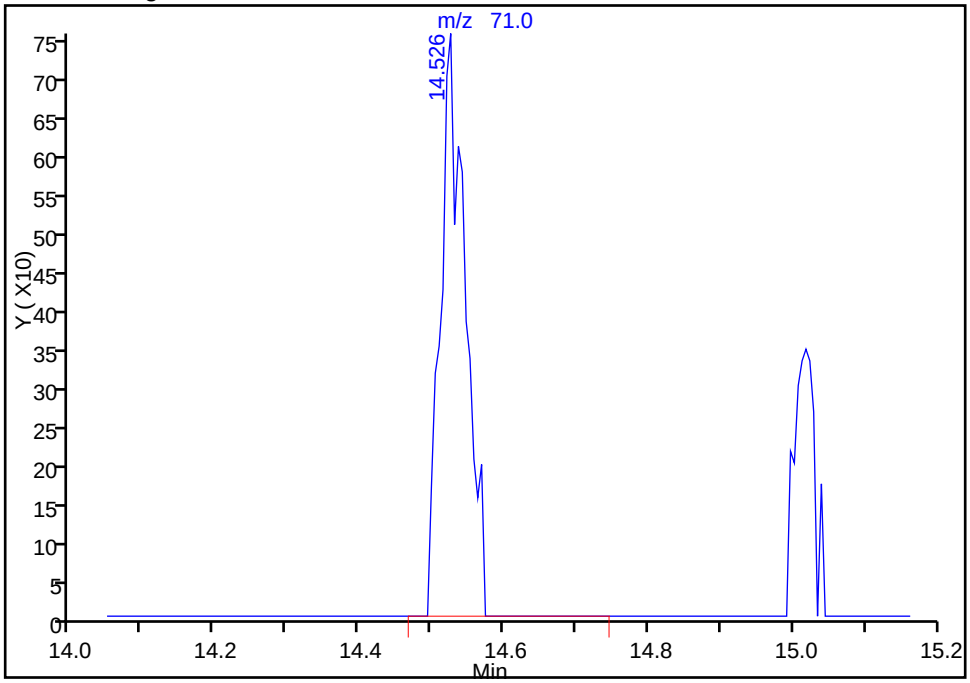
Processing Integration Results

RT: 14.54
Area: 885
Amount: 0.090209
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 1815
Amount: 0.162006
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

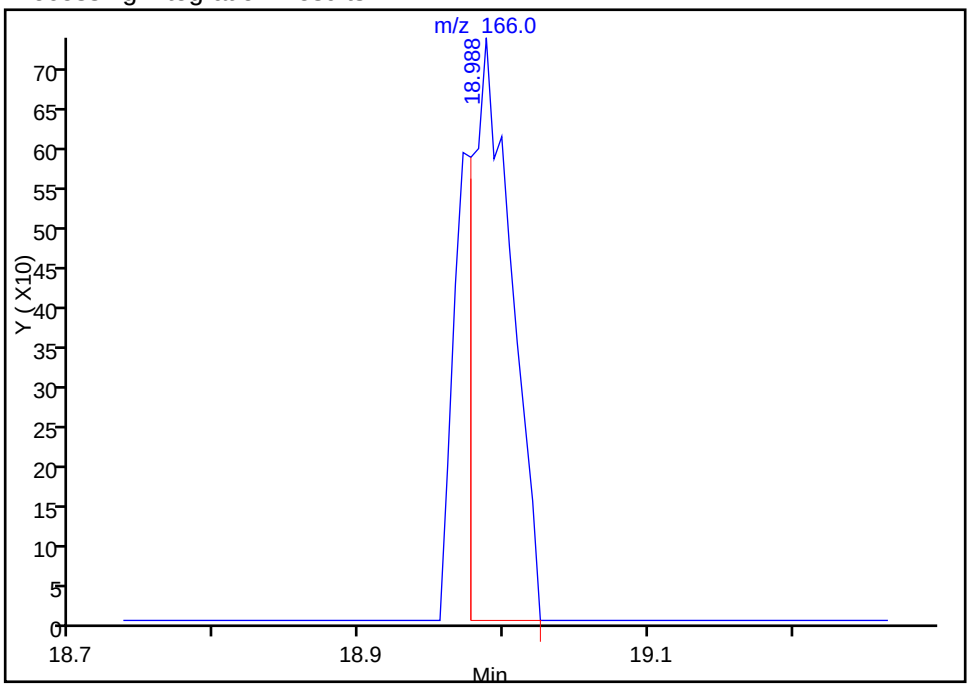
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

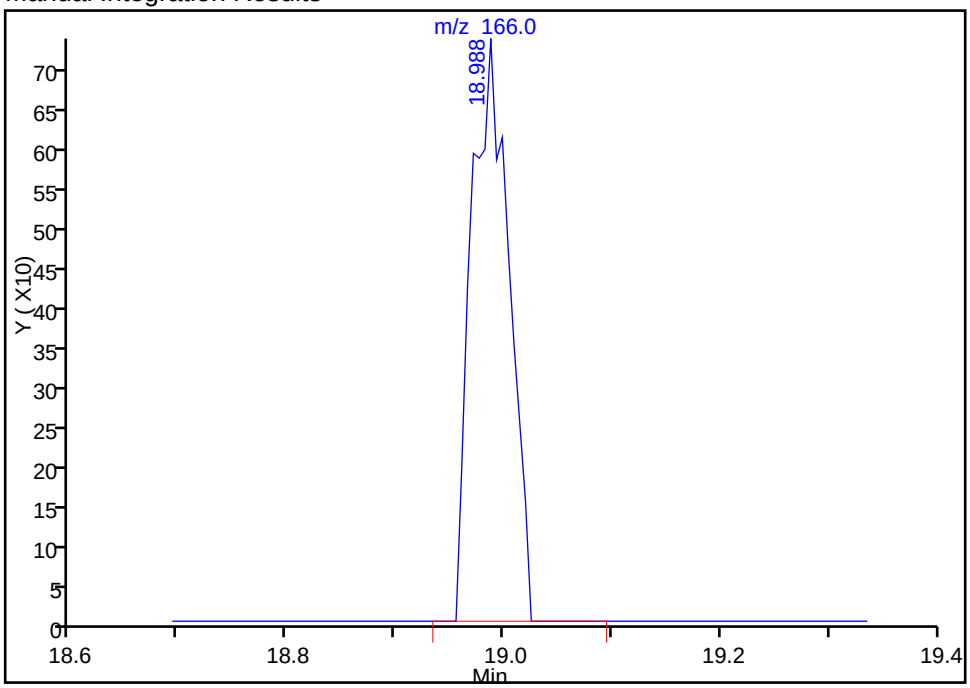
Processing Integration Results

RT: 18.99
Area: 1382
Amount: 0.033603
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 1769
Amount: 0.043012
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

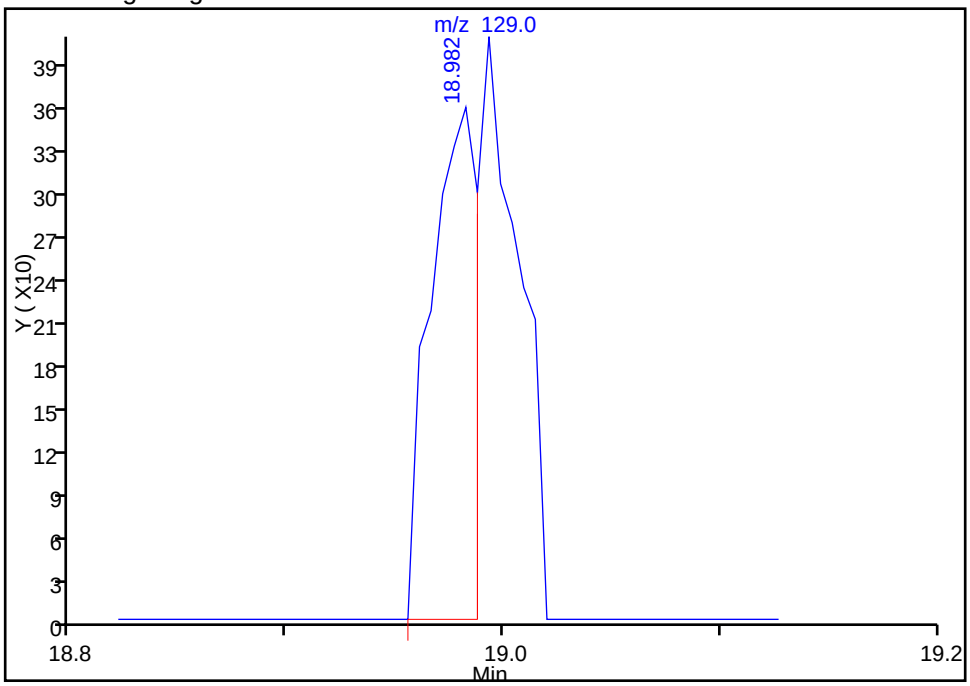
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

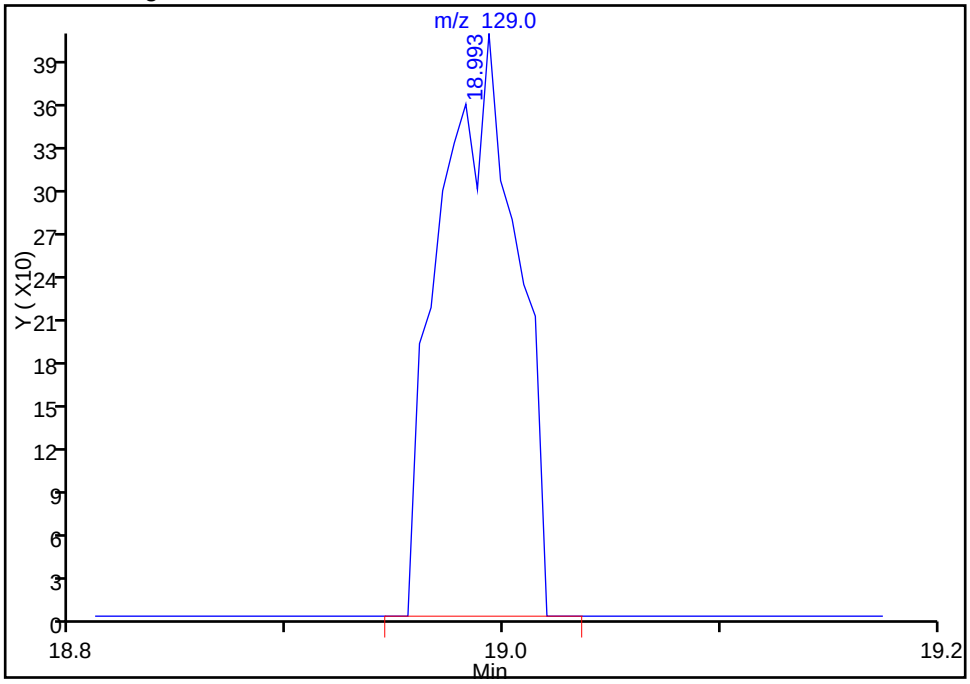
Processing Integration Results

RT: 18.98
Area: 538
Amount: 0.033603
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 994
Amount: 0.043012
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

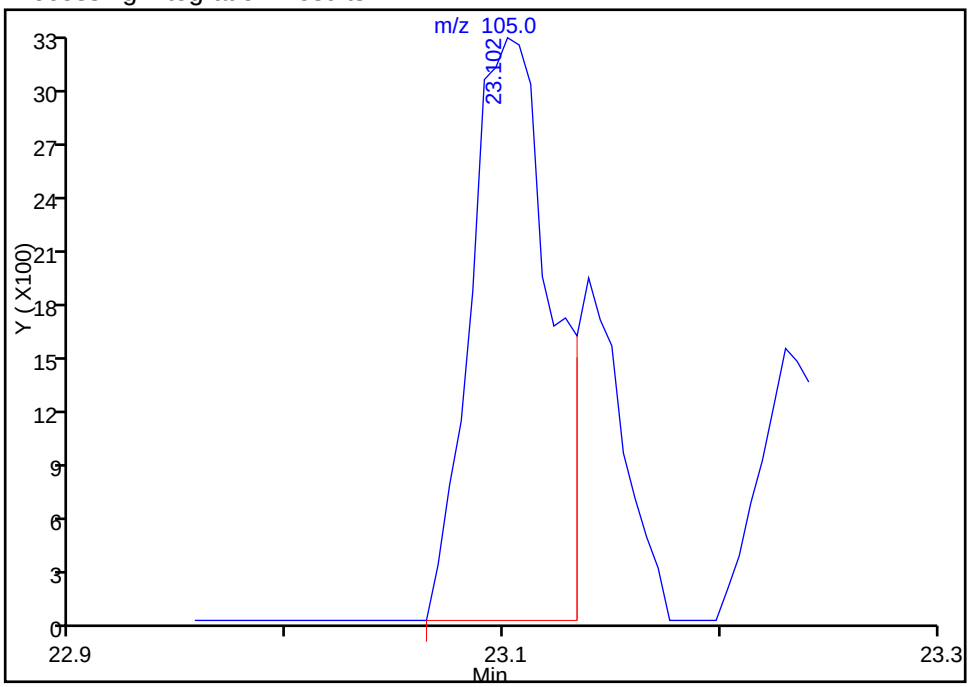
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

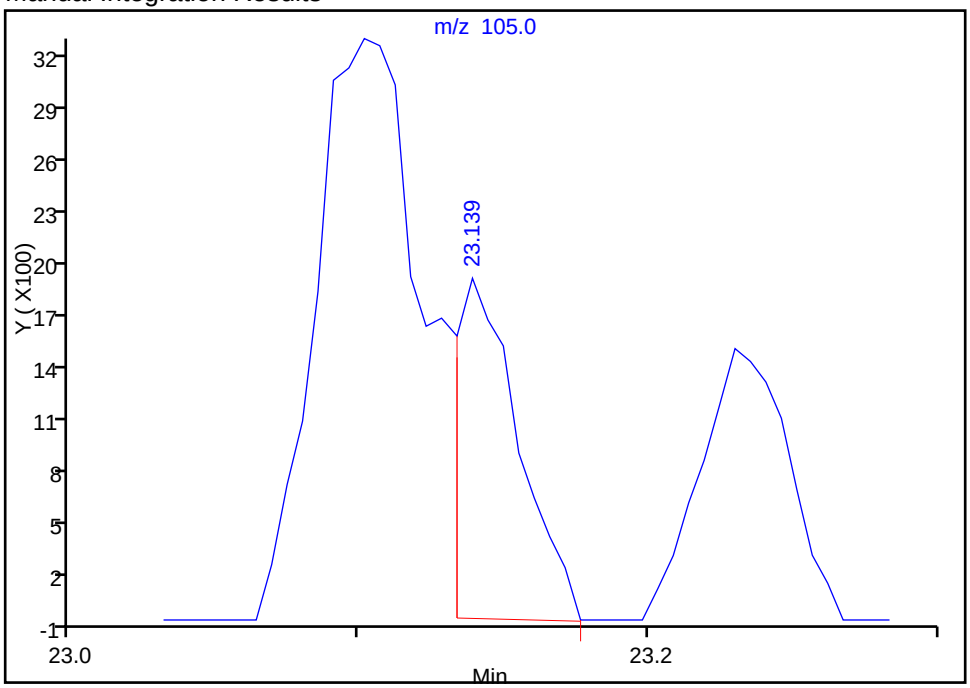
Processing Integration Results

RT: 23.10
Area: 8470
Amount: 0.082130
Amount Units: ppb v/v



Manual Integration Results

RT: 23.14
Area: 2907
Amount: 0.028188
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

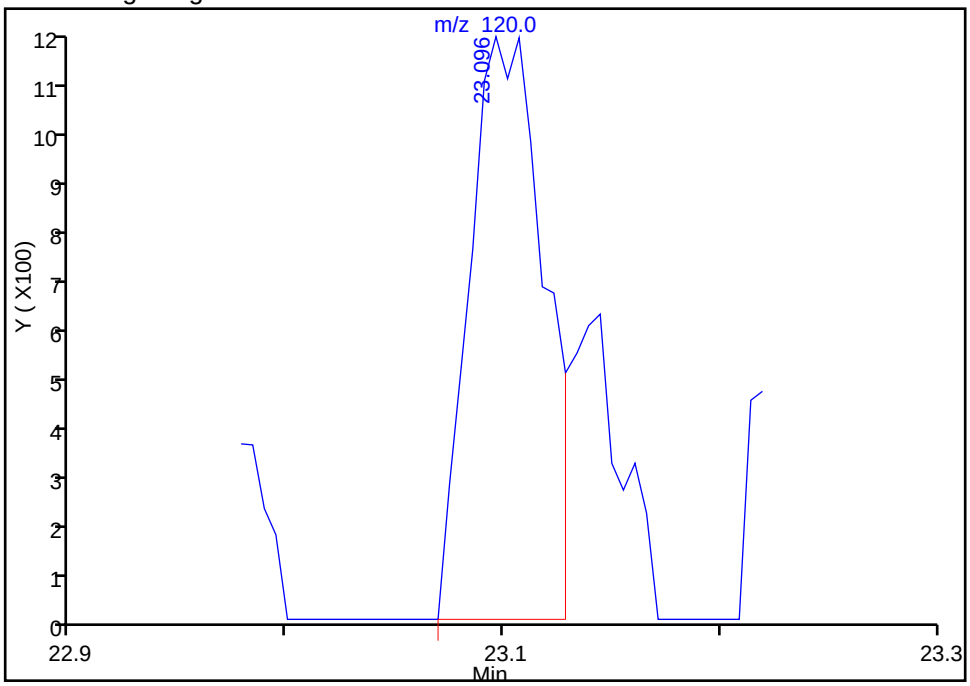
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_017.d				
Injection Date:	29-Sep-2015 23:40:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

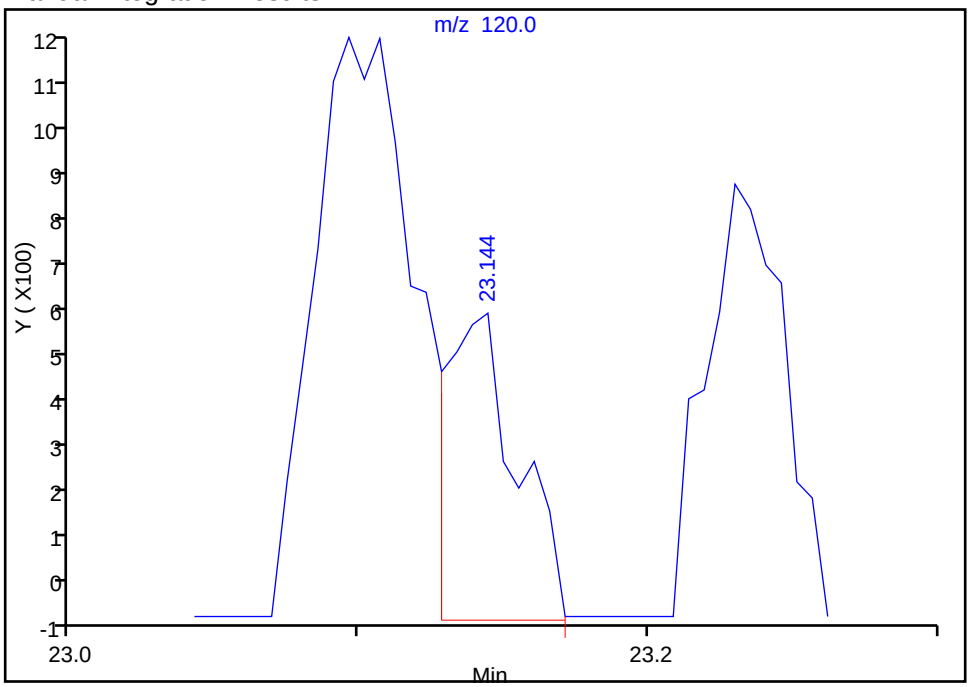
Processing Integration Results

RT: 23.10
Area: 2679
Amount: 0.082130
Amount Units: ppb v/v



Manual Integration Results

RT: 23.14
Area: 1034
Amount: 0.028188
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:07:16
Audit Action: Manually Integrated
Audit Reason: Wrong peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 DL Lab Sample ID: 200-29972-12 DL

Matrix: Air Lab File ID: 15991_027.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 08:51

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	*Dichlorodifluoromethane*	*120.91*	*0.60*	*J D*	*1.0*	*0.16*
75-45-6	*Freon 22*	*86.47*	*0.50*	*J D*	*1.0*	*0.11*
76-14-2	*1,2-Dichlorotetrafluoroethane*	*170.92*	*0.40*	*U*	*0.40*	*0.076*
74-87-3	*Chloromethane*	*50.49*	*0.54*	*J D*	*1.0*	*0.19*
106-97-8	*n-Butane*	*58.12*	*4.3*	*D*	*1.0*	*0.16*
75-01-4	*Vinyl chloride*	*62.50*	*0.080*	*U*	*0.080*	*0.064*
106-99-0	*1,3-Butadiene*	*54.09*	*0.40*	*U*	*0.40*	*0.18*
74-83-9	*Bromomethane*	*94.94*	*0.40*	*U*	*0.40*	*0.11*
75-00-3	*Chloroethane*	*64.52*	*1.0*	*U*	*1.0*	*0.17*
593-60-2	*Bromoethene(Vinyl Bromide)*	*106.96*	*0.40*	*U*	*0.40*	*0.088*
75-69-4	Trichlorofluoromethane	137.37	44	D	0.40	0.076
76-13-1	*Freon TF*	*187.38*	*0.40*	*U*	*0.40*	*0.15*
75-35-4	*1,1-Dichloroethene*	*96.94*	*0.44*	*D*	*0.40*	*0.072*
67-64-1	*Acetone*	*58.08*	*6.2*	*J D*	*10*	*1.7*
67-63-0	*Isopropyl alcohol*	*60.10*	*4.0*	*J D*	*10*	*2.0*
75-15-0	*Carbon disulfide*	*76.14*	*1.0*	*U*	*1.0*	*0.086*
107-05-1	*3-Chloropropene*	*76.53*	*1.0*	*U*	*1.0*	*0.14*
75-09-2	*Methylene Chloride*	*84.93*	*1.0*	*U*	*1.0*	*0.36*
75-65-0	*tert-Butyl alcohol*	*74.12*	*10*	*U*	*10*	*1.7*
1634-04-4	*Methyl tert-butyl ether*	*88.15*	*0.40*	*U*	*0.40*	*0.18*
156-60-5	*trans-1,2-Dichloroethene*	*96.94*	*0.40*	*U*	*0.40*	*0.086*
110-54-3	*n-Hexane*	*86.17*	*0.49*	*D*	*0.40*	*0.11*
75-34-3	*1,1-Dichloroethane*	*98.96*	*0.13*	*J D*	*0.40*	*0.050*
78-93-3	*Methyl Ethyl Ketone*	*72.11*	*0.54*	*J D*	*1.0*	*0.10*
156-59-2	*cis-1,2-Dichloroethene*	*96.94*	*0.40*	*U*	*0.40*	*0.070*
540-59-0	*1,2-Dichloroethene, Total*	*96.94*	*0.80*	*U*	*0.80*	*0.070*
67-66-3	*Chloroform*	*119.38*	*0.40*	*U*	*0.40*	*0.16*
109-99-9	*Tetrahydrofuran*	*72.11*	*10*	*U*	*10*	*2.8*
71-55-6	*1,1,1-Trichloroethane*	*133.41*	*0.30*	*J D*	*0.40*	*0.092*
110-82-7	*Cyclohexane*	*84.16*	*0.40*	*U*	*0.40*	*0.078*
56-23-5	*Carbon tetrachloride*	*153.81*	*0.080*	*D*	*0.080*	*0.064*
540-84-1	*2,2,4-Trimethylpentane*	*114.23*	*0.19*	*J D*	*0.40*	*0.078*
71-43-2	*Benzene*	*78.11*	*0.43*	*D*	*0.40*	*0.084*
107-06-2	*1,2-Dichloroethane*	*98.96*	*0.34*	*J D*	*0.40*	*0.082*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 DL | Lab Sample ID: 200-29972-12 DL

Matrix: Air | Lab File ID: 15991_027.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 100(mL) | Date Analyzed: 09/30/2015 08:51

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.12	J D	0.40	0.080
79-01-6	Trichloroethene	131.39	0.080	U	0.080	0.078
80-62-6	Methyl methacrylate	100.12	1.0	U	1.0	0.080
78-87-5	1,2-Dichloropropane	112.99	0.40	U	0.40	0.054
123-91-1	1,4-Dioxane	88.11	10	U	10	1.1
75-27-4	Bromodichloromethane	163.83	0.40	U	0.40	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	0.40	U	0.40	0.046
108-10-1	methyl isobutyl ketone	100.16	1.0	U	1.0	0.10
108-88-3	Toluene	92.14	0.87	D	0.40	0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	0.40	U	0.40	0.068
79-00-5	1,1,2-Trichloroethane	133.41	0.40	U	0.40	0.078
127-18-4	Tetrachloroethene	165.83	0.40	U	0.40	0.046
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.0	U	1.0	0.11
124-48-1	Dibromochloromethane	208.29	0.40	U	0.40	0.088
106-93-4	1,2-Dibromoethane	187.87	0.40	U	0.40	0.078
108-90-7	Chlorobenzene	112.56	0.40	U	0.40	0.098
100-41-4	Ethylbenzene	106.17	0.14	J D	0.40	0.066
179601-23-1	m,p-Xylene	106.17	0.46	J D	1.0	0.14
95-47-6	Xylene, o-	106.17	0.15	J D	0.40	0.074
1330-20-7	Xylene (total)	106.17	0.61	J D	1.4	0.074
100-42-5	Styrene	104.15	0.40	U	0.40	0.086
75-25-2	Bromoform	252.75	0.40	U	0.40	0.11
98-82-8	Cumene	120.19	0.40	U	0.40	0.060
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.40	U	0.40	0.088
103-65-1	n-Propylbenzene	120.19	0.40	U	0.40	0.086
622-96-8	4-Ethyltoluene	120.20	0.40	U	0.40	0.088
108-67-8	1,3,5-Trimethylbenzene	120.20	0.40	U	0.40	0.078
95-49-8	2-Chlorotoluene	126.59	0.40	U	0.40	0.066
98-06-6	tert-Butylbenzene	134.22	0.40	U	0.40	0.088
95-63-6	1,2,4-Trimethylbenzene	120.20	0.10	J D	0.40	0.086
135-98-8	sec-Butylbenzene	134.22	0.40	U	0.40	0.088
99-87-6	4-Isopropyltoluene	134.22	0.40	U	0.40	0.074
541-73-1	1,3-Dichlorobenzene	147.00	0.40	U	0.40	0.11
106-46-7	1,4-Dichlorobenzene	147.00	0.40	U	0.40	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 DL Lab Sample ID: 200-29972-12 DL

Matrix: Air Lab File ID: 15991_027.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 08:51

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.40*	*U*	*0.40*	*0.11*
104-51-8	*n-Butylbenzene*	*134.22*	*0.40*	*U*	*0.40*	*0.094*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.40*	*U*	*0.40*	*0.11*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*1.0*	*U*	*1.0*	*0.14*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.40*	*U*	*0.40*	*0.16*
91-20-3	*Naphthalene*	*128.17*	*1.0*	*U*	*1.0*	*0.11*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 DL Lab Sample ID: 200-29972-12 DL

Matrix: Air Lab File ID: 15991_027.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 08:51

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.9	J D	4.9	0.79
75-45-6	Freon 22	86.47	1.8	J D	3.5	0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.8	U	2.8	0.53
74-87-3	Chloromethane	50.49	1.1	J D	2.1	0.38
106-97-8	n-Butane	58.12	10	D	2.4	0.37
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.16
106-99-0	1,3-Butadiene	54.09	0.88	U	0.88	0.39
74-83-9	Bromomethane	94.94	1.6	U	1.6	0.43
75-00-3	Chloroethane	64.52	2.6	U	2.6	0.45
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.7	U	1.7	0.38
75-69-4	Trichlorofluoromethane	137.37	250	D	2.2	0.43
76-13-1	Freon TF	187.38	3.1	U	3.1	1.1
75-35-4	1,1-Dichloroethene	96.94	1.8	D	1.6	0.29
67-64-1	Acetone	58.08	15	J D	24	4.1
67-63-0	Isopropyl alcohol	60.10	9.9	J D	25	4.8
75-15-0	Carbon disulfide	76.14	3.1	U	3.1	0.27
107-05-1	3-Chloropropene	76.53	3.1	U	3.1	0.43
75-09-2	Methylene Chloride	84.93	3.5	U	3.5	1.3
75-65-0	tert-Butyl alcohol	74.12	30	U	30	5.2
1634-04-4	Methyl tert-butyl ether	88.15	1.4	U	1.4	0.64
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	0.34
110-54-3	n-Hexane	86.17	1.7	D	1.4	0.38
75-34-3	1,1-Dichloroethane	98.96	0.53	J D	1.6	0.20
78-93-3	Methyl Ethyl Ketone	72.11	1.6	J D	2.9	0.31
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	0.28
540-59-0	1,2-Dichloroethene, Total	96.94	3.2	U	3.2	0.28
67-66-3	Chloroform	119.38	2.0	U	2.0	0.80
109-99-9	Tetrahydrofuran	72.11	29	U	29	8.3
71-55-6	1,1,1-Trichloroethane	133.41	1.7	J D	2.2	0.50
110-82-7	Cyclohexane	84.16	1.4	U	1.4	0.27
56-23-5	Carbon tetrachloride	153.81	0.50	D	0.50	0.40
540-84-1	2,2,4-Trimethylpentane	114.23	0.88	J D	1.9	0.36
71-43-2	Benzene	78.11	1.4	D	1.3	0.27
107-06-2	1,2-Dichloroethane	98.96	1.4	J D	1.6	0.33

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 DL | Lab Sample ID: 200-29972-12 DL

Matrix: Air | Lab File ID: 15991_027.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:59

Sample wt/vol: 100(mL) | Date Analyzed: 09/30/2015 08:51

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.50	J D	1.6	0.33
79-01-6	Trichloroethene	131.39	0.43	U	0.43	0.42
80-62-6	Methyl methacrylate	100.12	4.1	U	4.1	0.33
78-87-5	1,2-Dichloropropane	112.99	1.8	U	1.8	0.25
123-91-1	1,4-Dioxane	88.11	36	U	36	4.0
75-27-4	Bromodichloromethane	163.83	2.7	U	2.7	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	1.8	U	1.8	0.21
108-10-1	methyl isobutyl ketone	100.16	4.1	U	4.1	0.41
108-88-3	Toluene	92.14	3.3	D	1.5	0.70
10061-02-6	trans-1,3-Dichloropropene	110.97	1.8	U	1.8	0.31
79-00-5	1,1,2-Trichloroethane	133.41	2.2	U	2.2	0.43
127-18-4	Tetrachloroethene	165.83	2.7	U	2.7	0.31
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	4.1	U	4.1	0.47
124-48-1	Dibromochloromethane	208.29	3.4	U	3.4	0.75
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	0.60
108-90-7	Chlorobenzene	112.56	1.8	U	1.8	0.45
100-41-4	Ethylbenzene	106.17	0.59	J D	1.7	0.29
179601-23-1	m,p-Xylene	106.17	2.0	J D	4.3	0.62
95-47-6	Xylene, o-	106.17	0.64	J D	1.7	0.32
1330-20-7	Xylene (total)	106.17	2.6	J D	6.1	0.32
100-42-5	Styrene	104.15	1.7	U	1.7	0.37
75-25-2	Bromoform	252.75	4.1	U	4.1	1.2
98-82-8	Cumene	120.19	2.0	U	2.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.7	U	2.7	0.60
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.42
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.43
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.38
95-49-8	2-Chlorotoluene	126.59	2.1	U	2.1	0.34
98-06-6	tert-Butylbenzene	134.22	2.2	U	2.2	0.48
95-63-6	1,2,4-Trimethylbenzene	120.20	0.50	J D	2.0	0.42
135-98-8	sec-Butylbenzene	134.22	2.2	U	2.2	0.48
99-87-6	4-Isopropyltoluene	134.22	2.2	U	2.2	0.41
541-73-1	1,3-Dichlorobenzene	147.00	2.4	U	2.4	0.66
106-46-7	1,4-Dichlorobenzene	147.00	2.4	U	2.4	0.69

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA06-092315 DL Lab Sample ID: 200-29972-12 DL

Matrix: Air Lab File ID: 15991_027.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:59

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 08:51

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*2.1*	*U*	*2.1*	*0.55*
104-51-8	*n-Butylbenzene*	*134.22*	*2.2*	*U*	*2.2*	*0.52*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*2.4*	*U*	*2.4*	*0.66*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*7.4*	*U*	*7.4*	*1.0*
87-68-3	*Hexachlorobutadiene*	*260.76*	*4.3*	*U*	*4.3*	*1.7*
91-20-3	*Naphthalene*	*128.17*	*5.2*	*U*	*5.2*	*0.60*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d
Lims ID: 200-29972-A-12 Lab Sample ID: 200-29972-12
Client ID: FR-IA06-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 08:51:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Sample Info: 200-0015991-027
Misc. Info.: 29972-12
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 13:09:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	98	15811	0.2979	
3 Chlorodifluoromethane	51	4.490	4.495	-0.005	96	5309	0.2481	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.004	5.009	-0.005	96	2797	0.2698	
6 Butane	43	5.282	5.282	0.000	95	32752	2.17	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.293	7.288	0.005	98	1329846	22.1	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.663	8.663	0.000	92	3840	0.2220	
22 Acetone	43	8.946	8.935	0.011	97	58003	3.10	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.225	9.219	0.005	96	29903	2.01	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.925	9.925	0.000	73	2150	0.1568	
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.856	10.851	0.005	76	4438	0.2439	
34 1,1-Dichloroethane	63	11.429	11.428	0.001	89	1773	0.0660	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.653	0.006	98	2333	0.2698	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	69	167135	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	95	7267	0.1513	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.777	13.782	-0.005	90	2111	0.0399	
46 Isooctane	57	14.184	14.183	0.001	90	5747	0.0947	
47 Benzene	78	14.248	14.253	-0.005	93	11321	0.2161	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	97	4289	0.1706	
49 n-Heptane	43	14.531	14.531	0.000	74	1153	0.0610	M
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	773758	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
65 Toluene	92	17.961	17.960	0.001	92	18506	0.4353	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166		18.987				ND	
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.3023	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	734959	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.898	20.897	0.001	96	6467	0.0680	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	8779	0.2286	
79 o-Xylene	106	21.796	21.801	-0.005	95	2792	0.0737	
80 Styrene	104	21.839	21.839	0.000	85	1827	0.0308	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105		22.352				ND	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91		22.973				ND	
88 4-Ethyltoluene	105	23.134	23.144	-0.010	94	2070	0.0161	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.241	23.235	0.006	51	1874	0.0169	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.819	23.813	0.005	94	5562	0.0506	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	92	2259	0.0167	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	83	1326	0.0148	M
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128		28.767				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

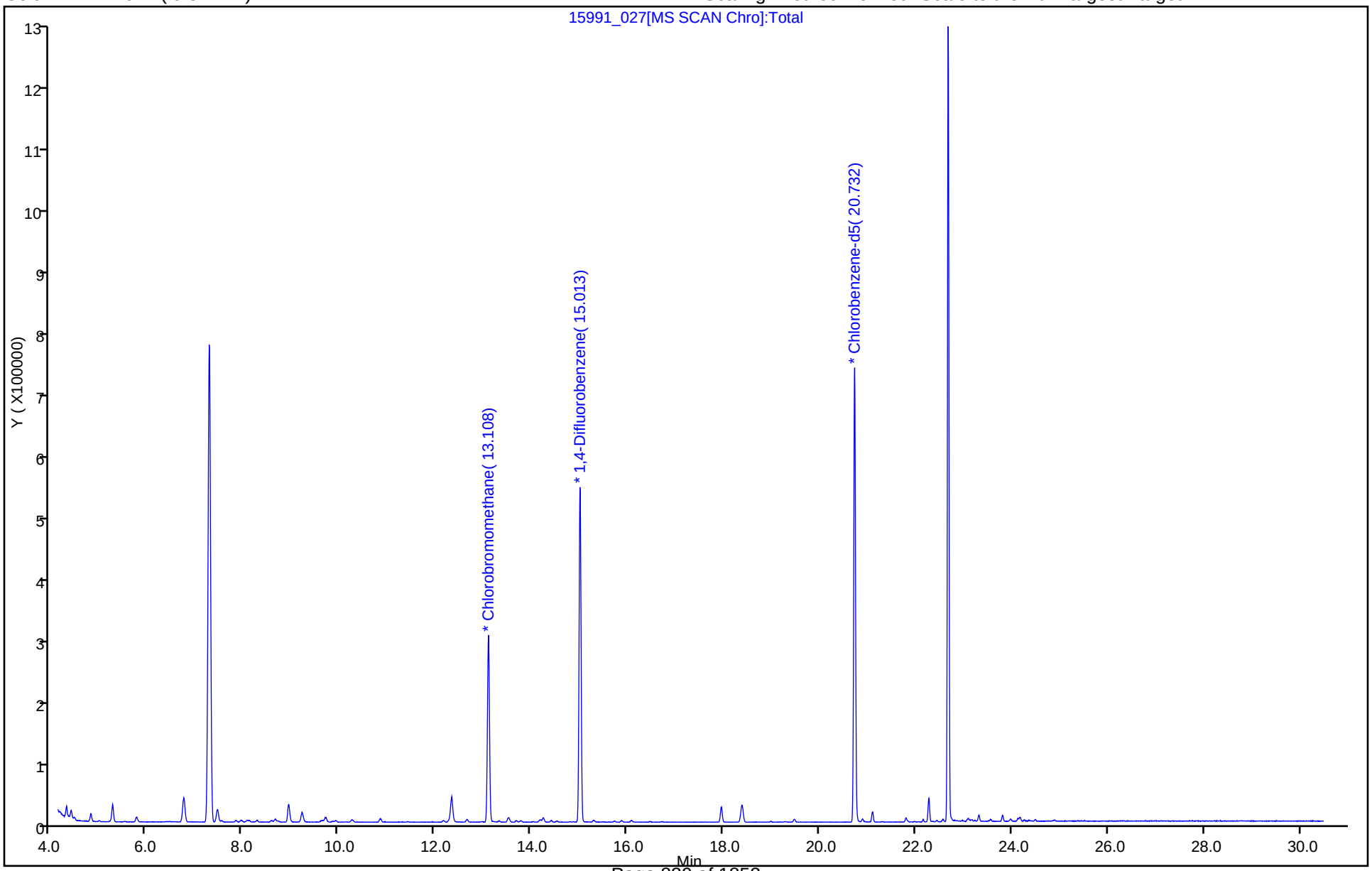
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12	Worklist Smp#:	27
Client ID:	FR-IA06-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	26
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



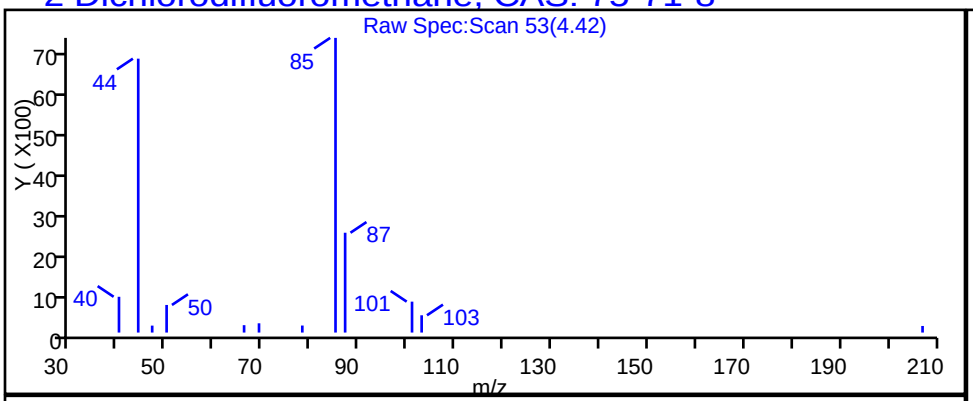
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

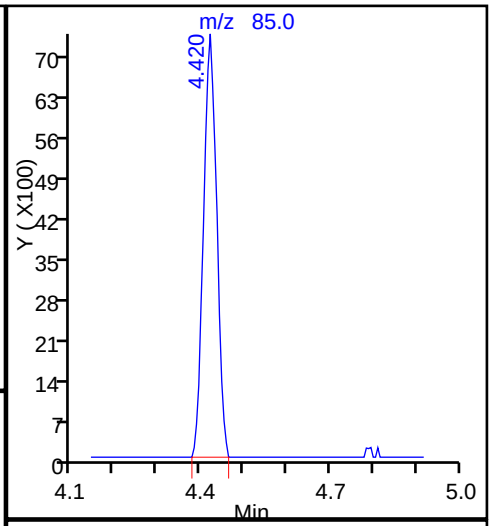
TestAmerica Burlington

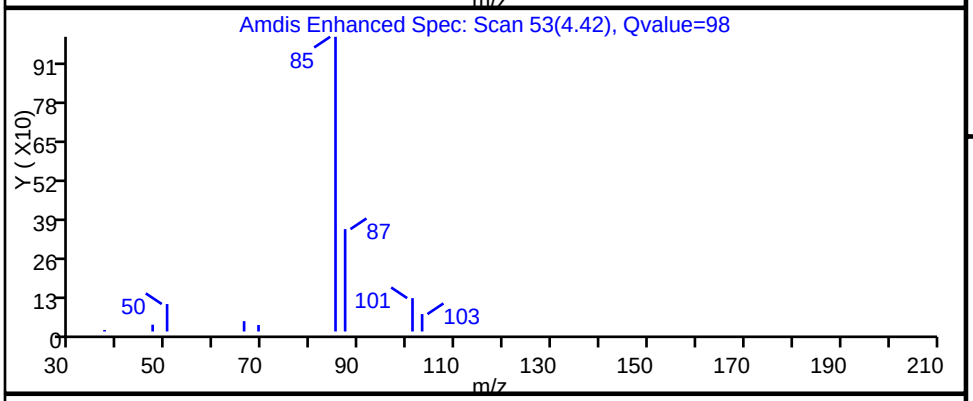
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

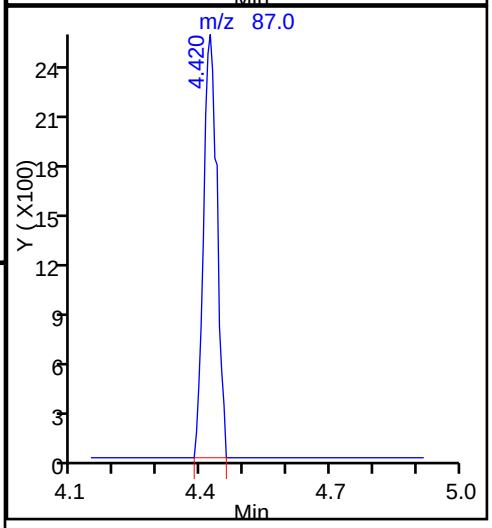
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

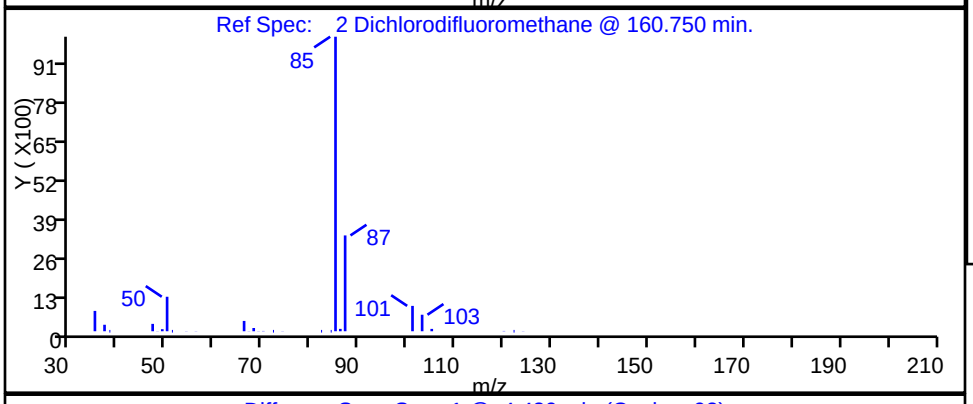
2 Dichlorodifluoromethane, CAS: 75-71-8

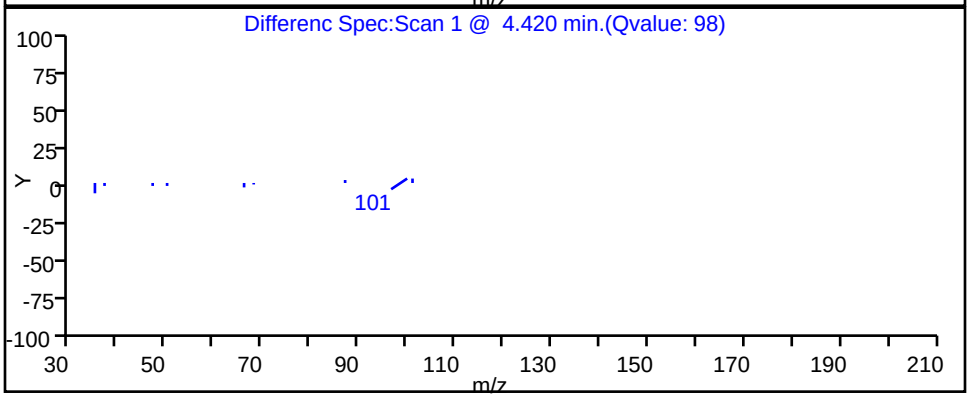












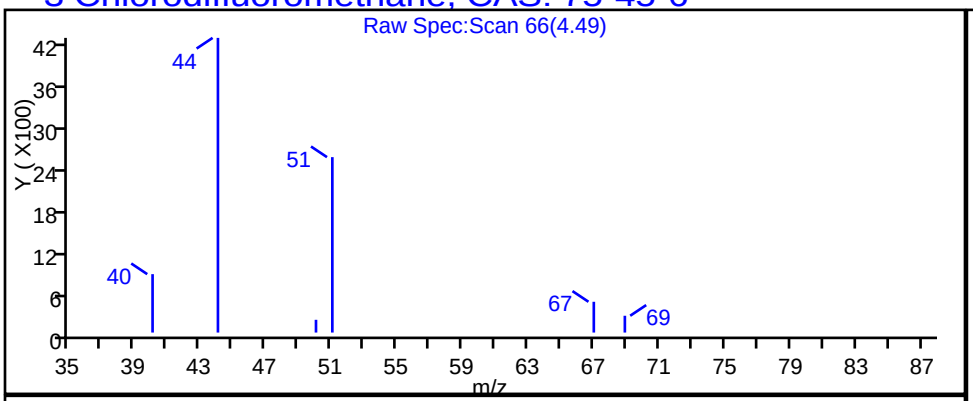
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

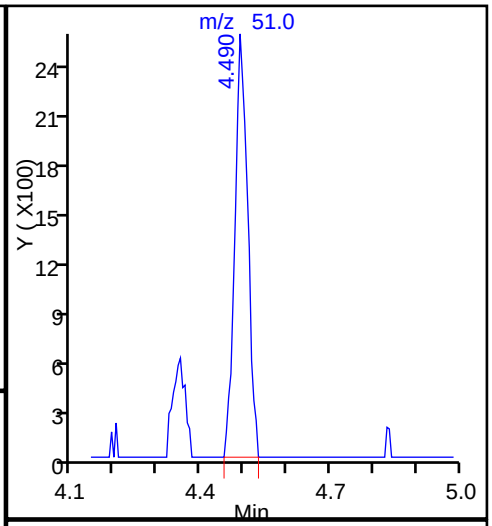
TestAmerica Burlington

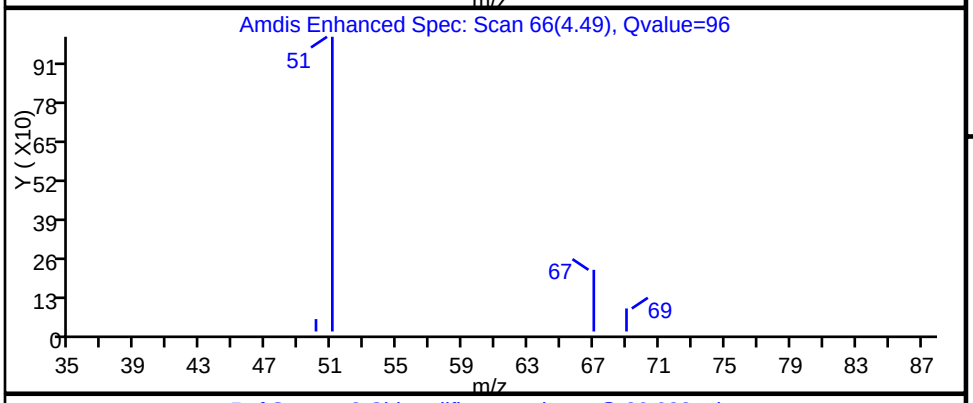
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

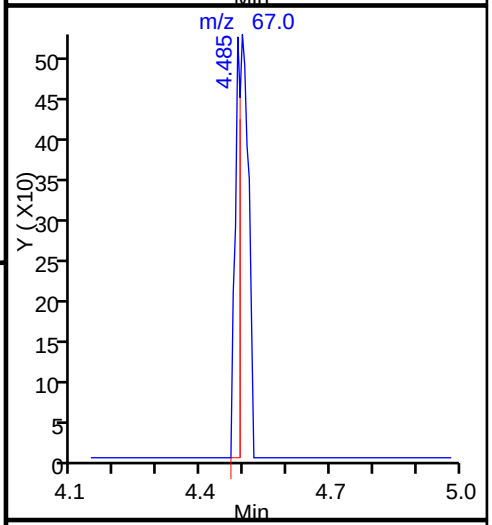
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

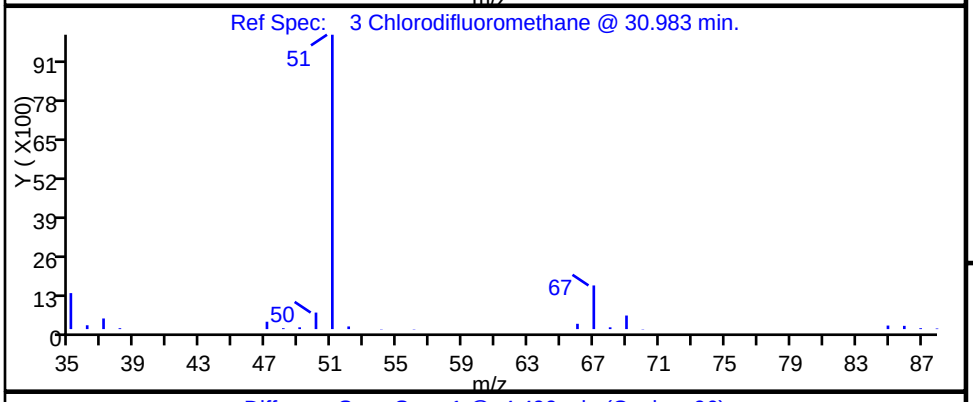
3 Chlorodifluoromethane, CAS: 75-45-6

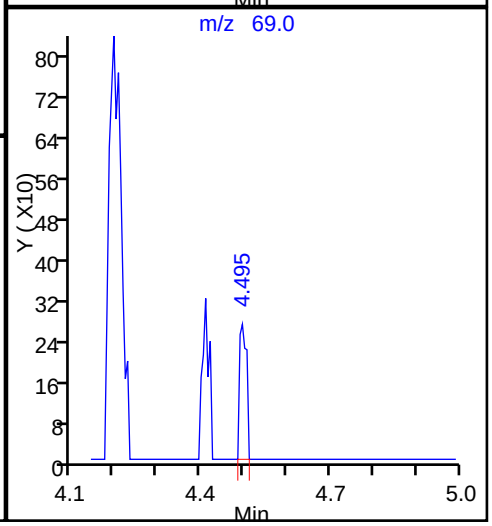


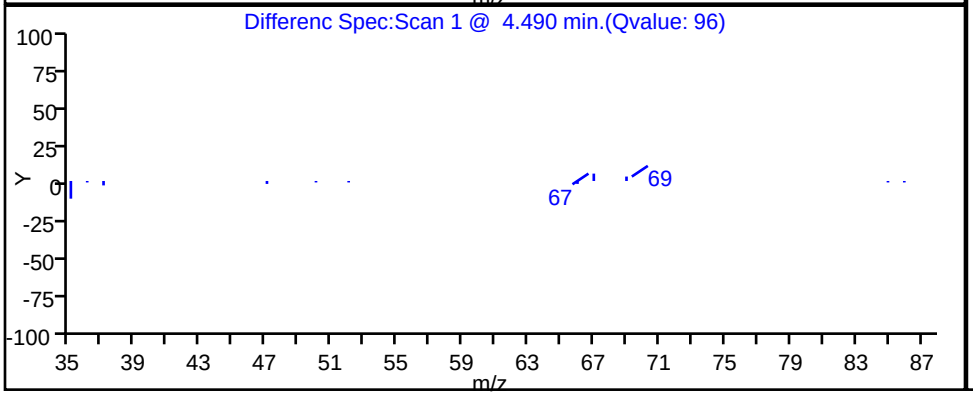












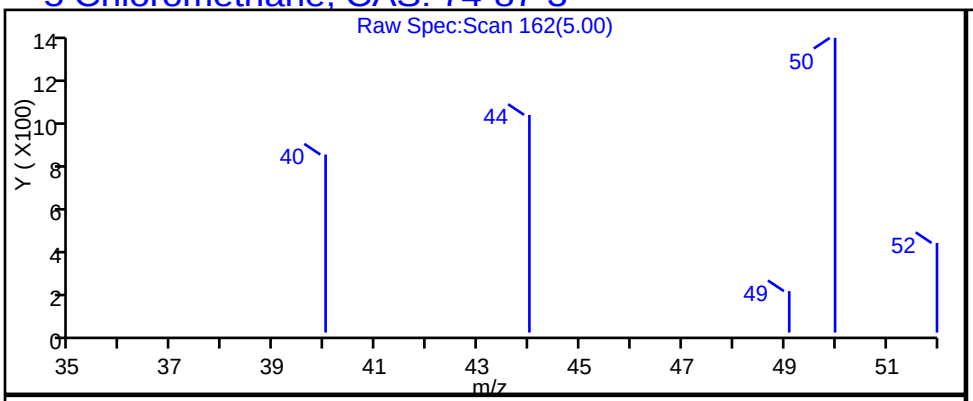
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

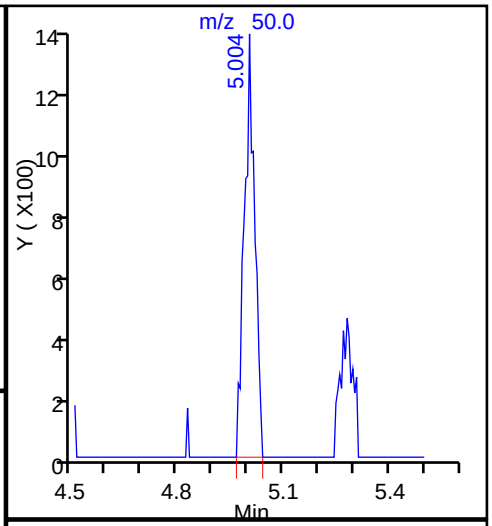
TestAmerica Burlington

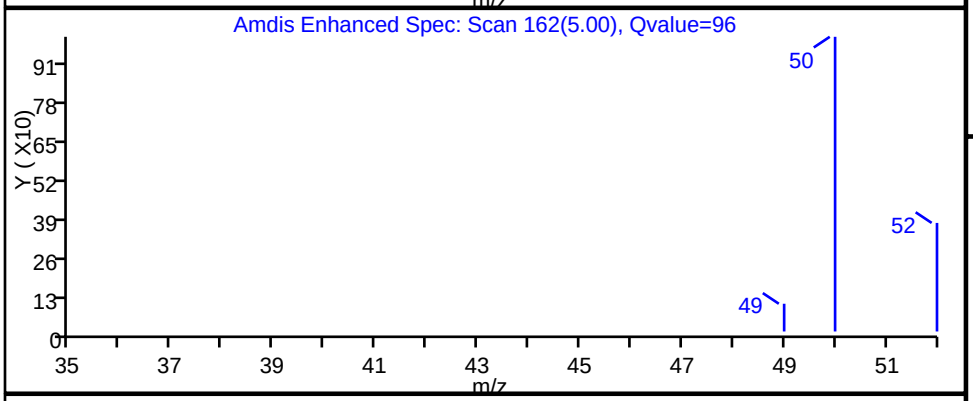
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

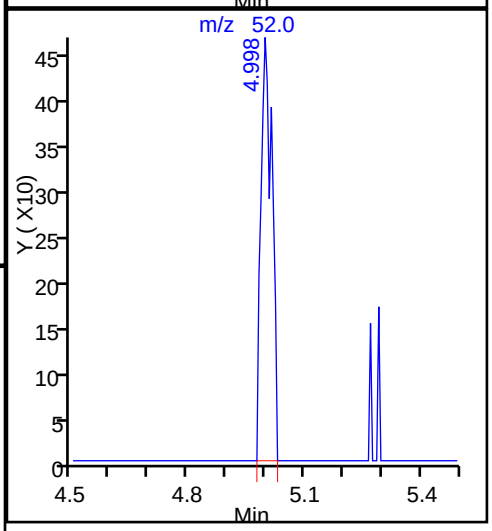
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

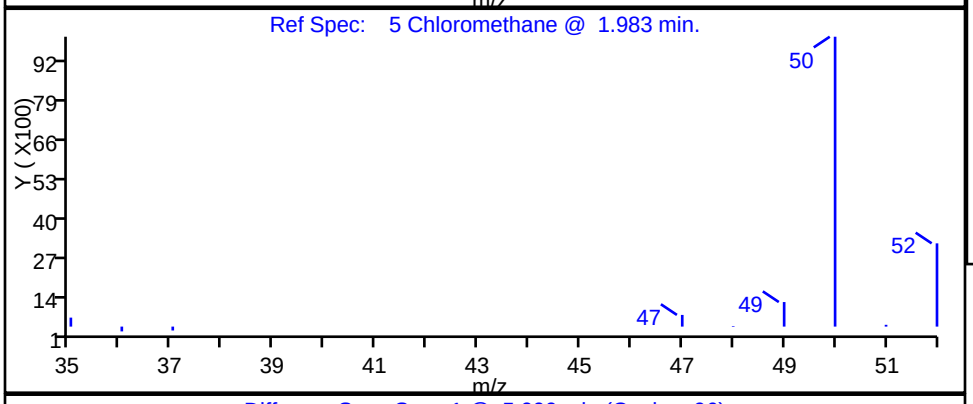
5 Chloromethane, CAS: 74-87-3

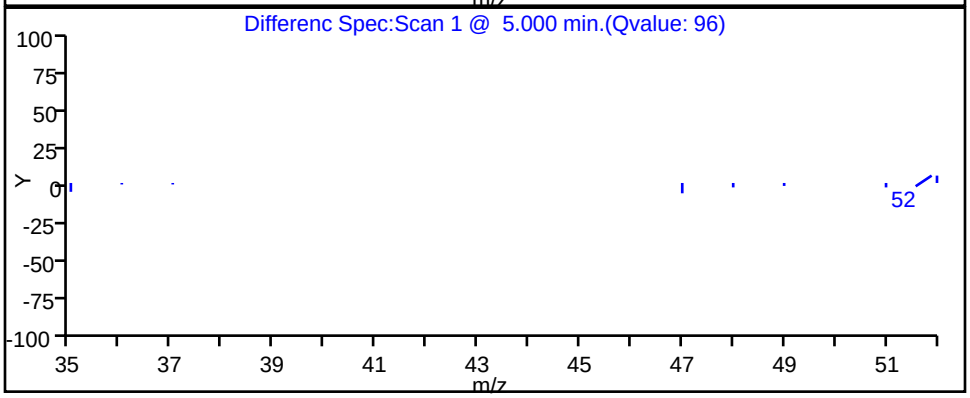












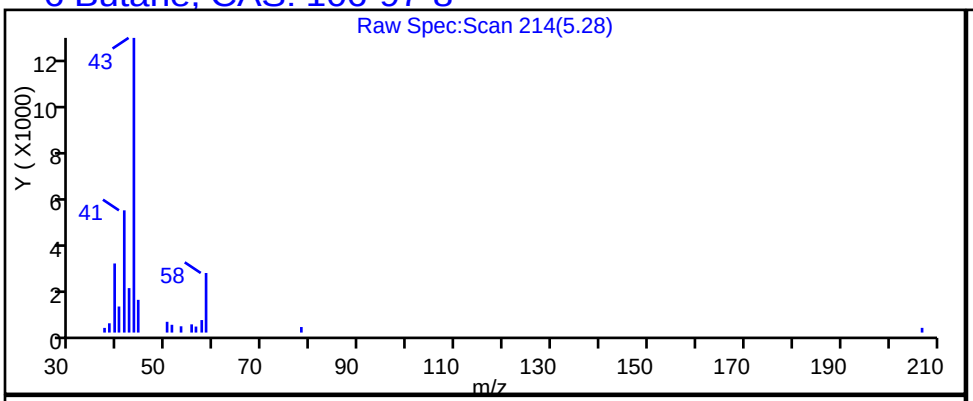
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

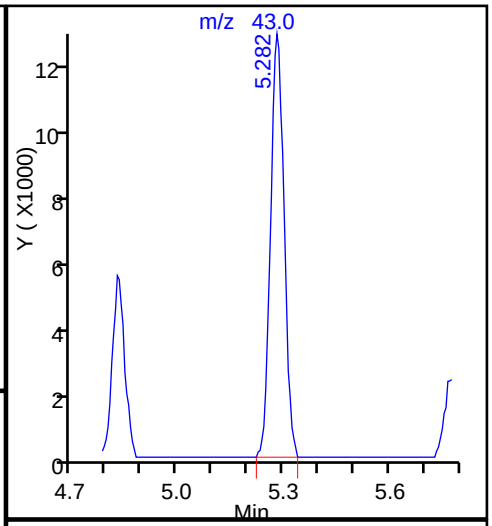
TestAmerica Burlington

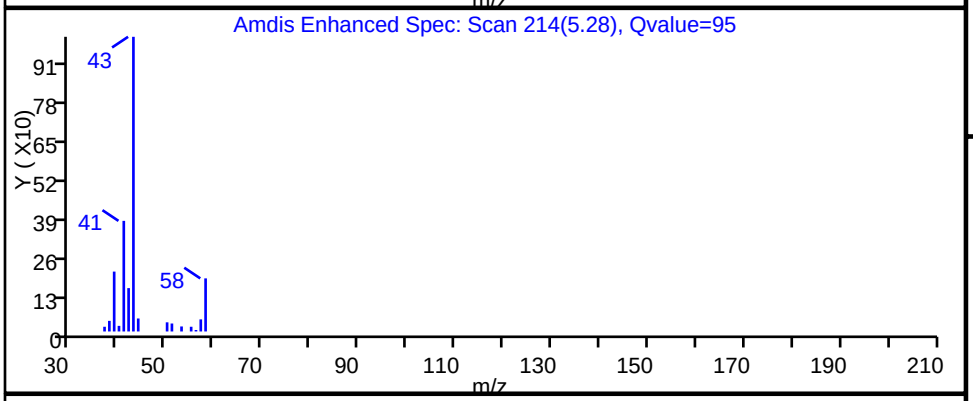
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

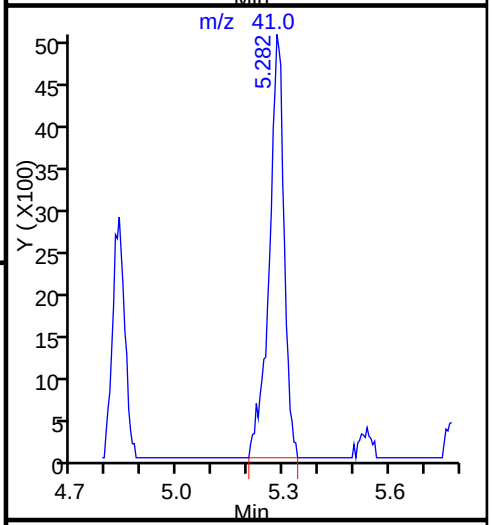
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

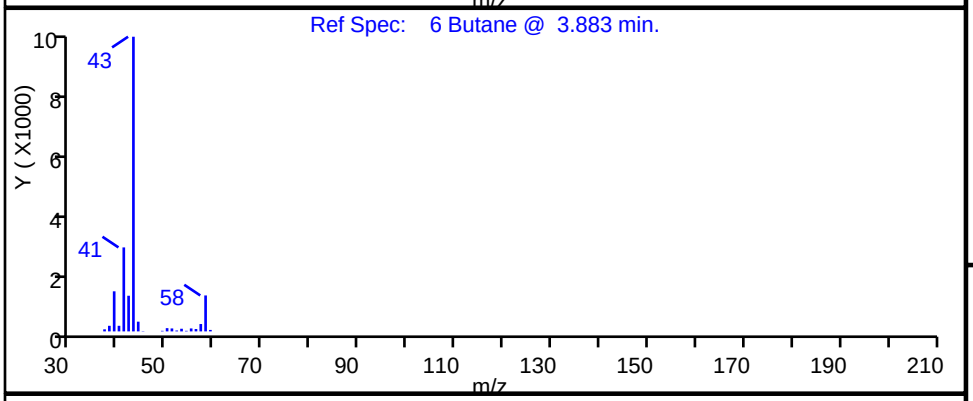
6 Butane, CAS: 106-97-8

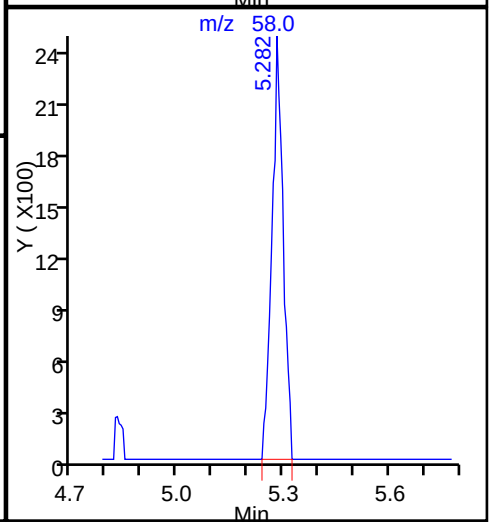


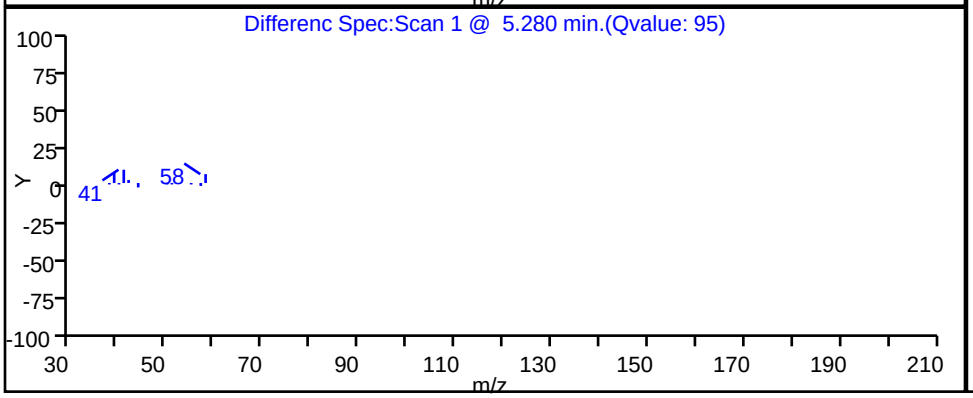










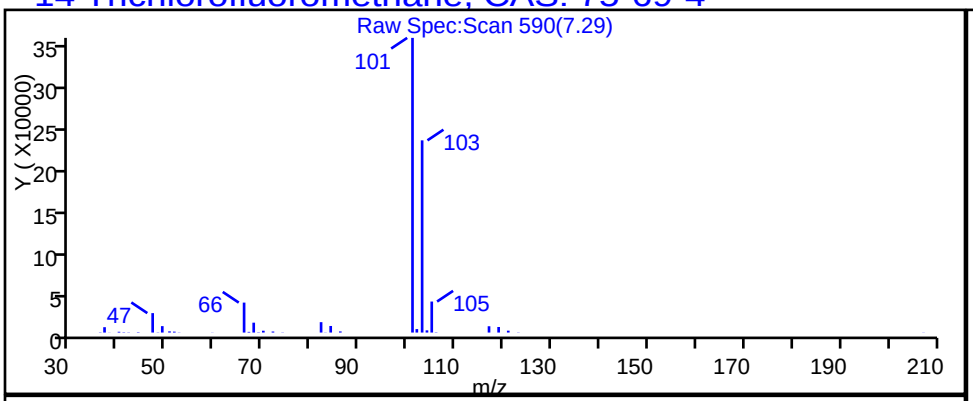


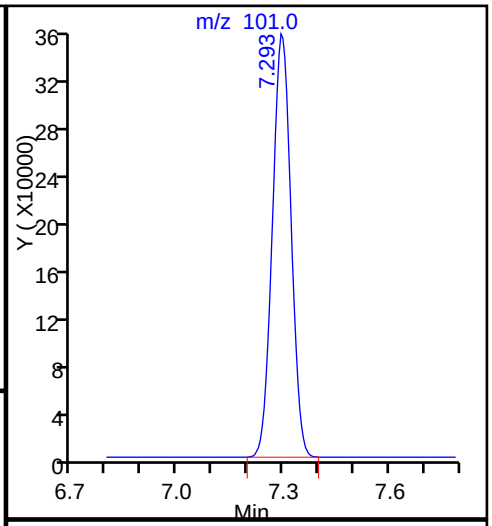
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

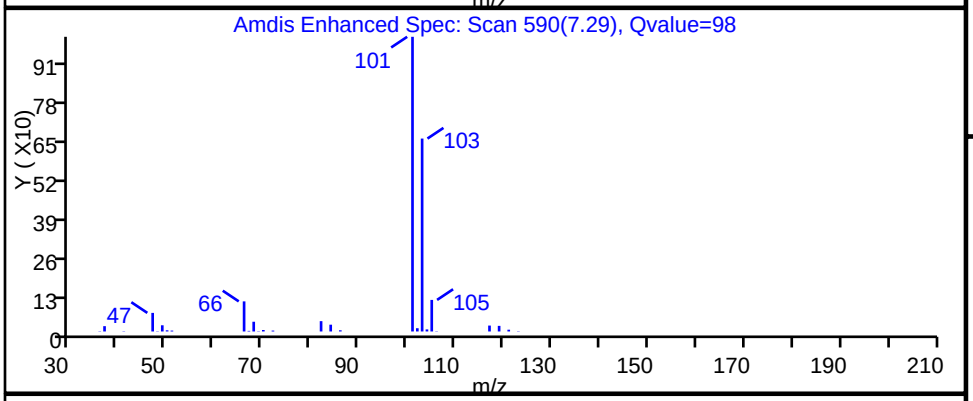
TestAmerica Burlington

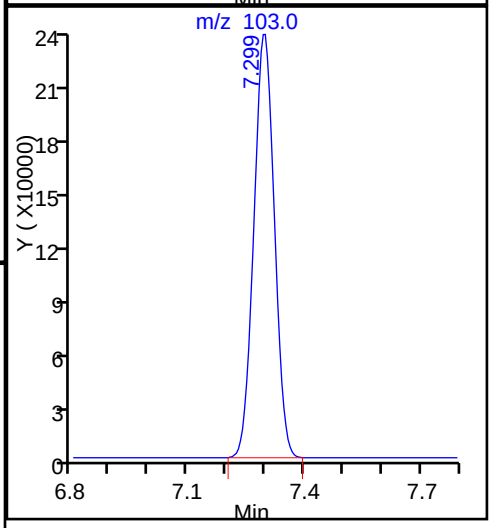
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

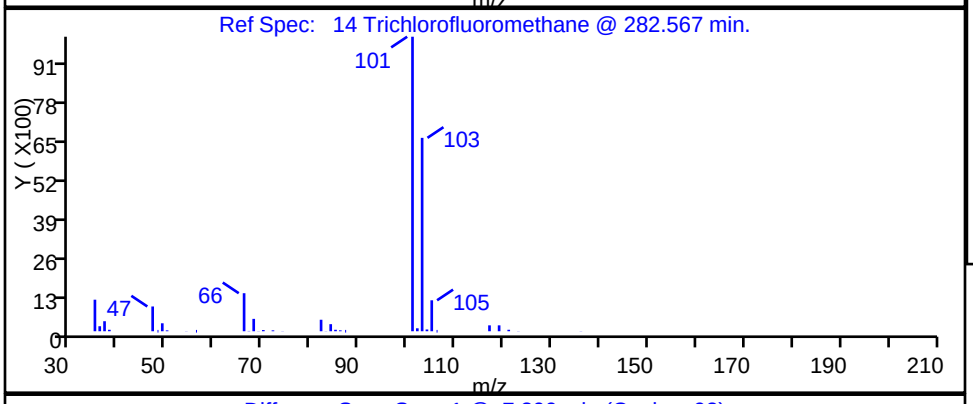
14 Trichlorofluoromethane, CAS: 75-69-4

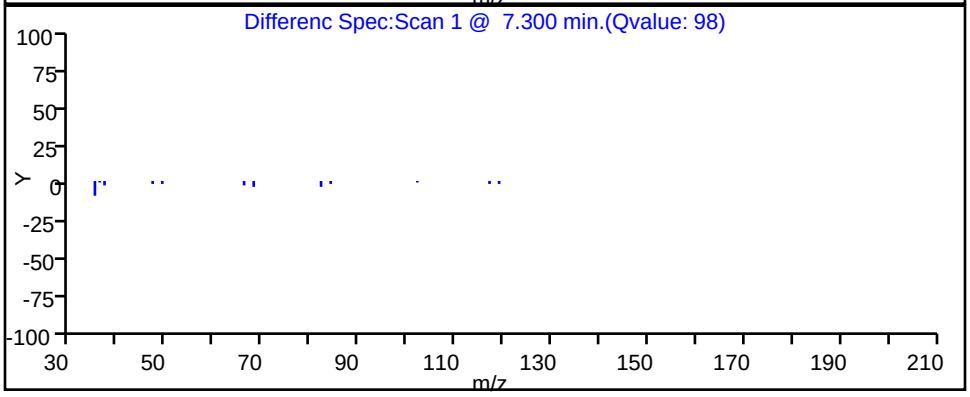












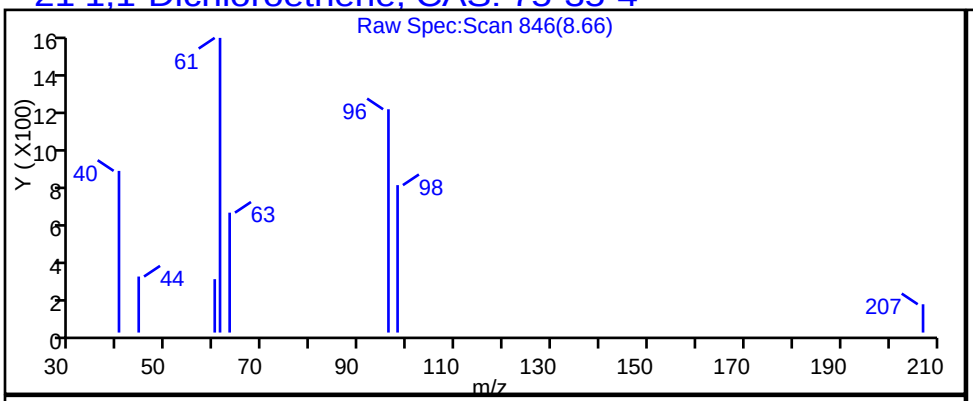
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

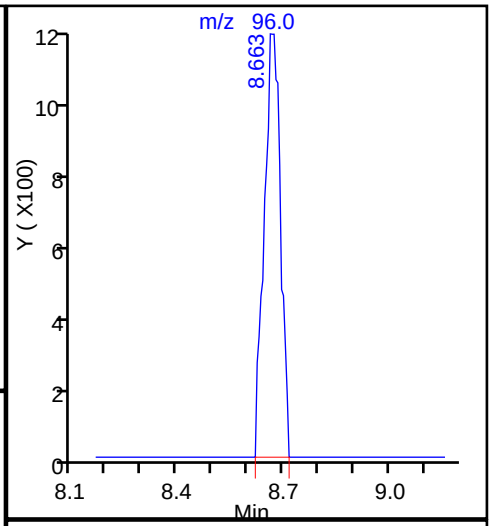
TestAmerica Burlington

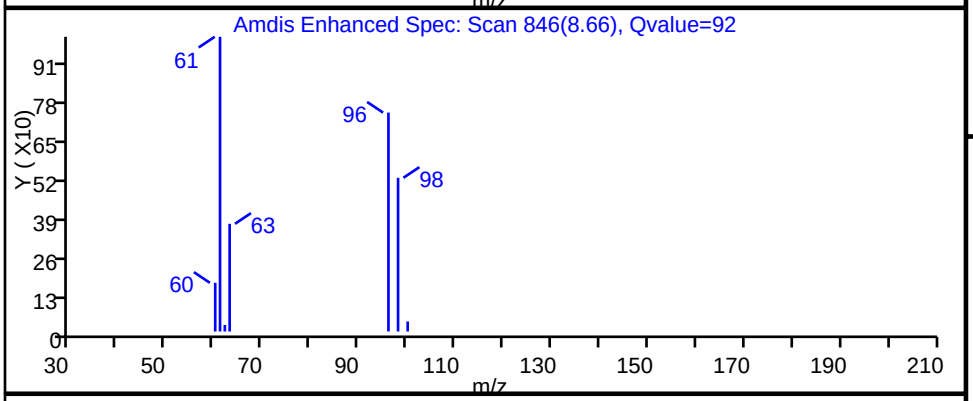
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

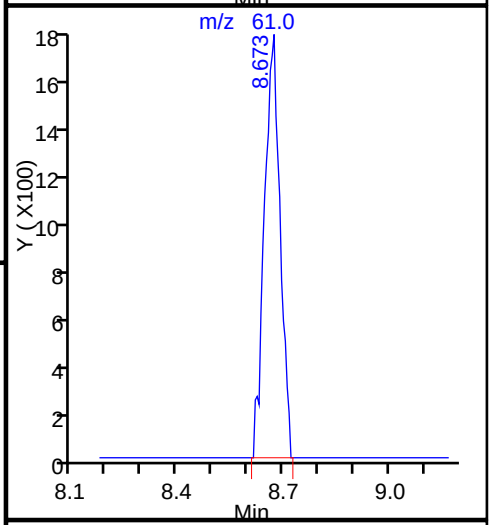
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

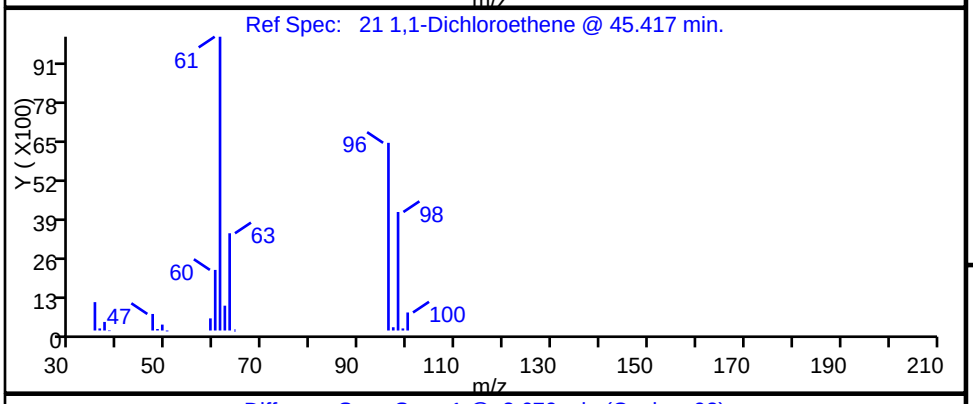
21 1,1-Dichloroethene, CAS: 75-35-4

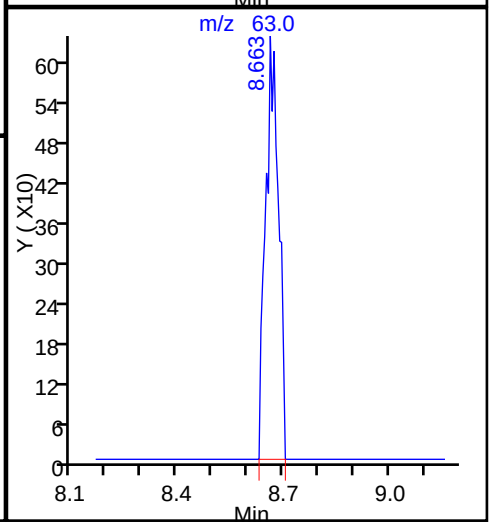


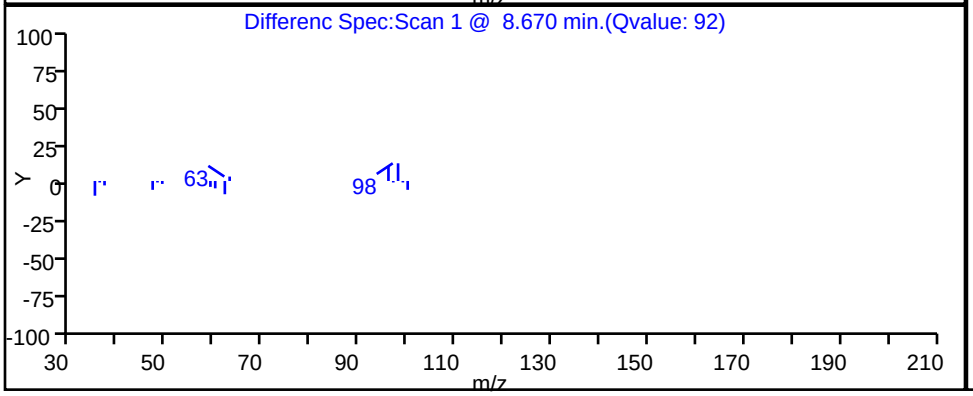










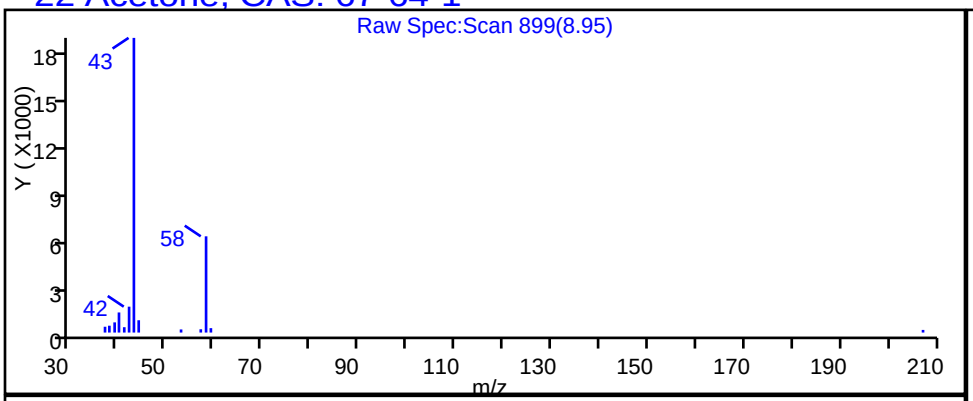


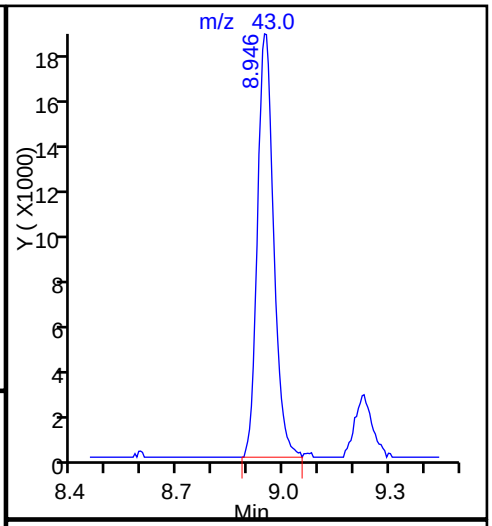
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

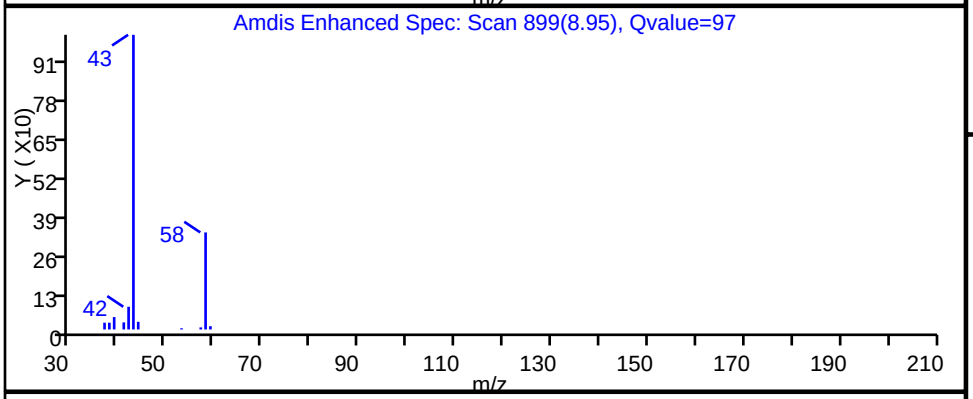
TestAmerica Burlington

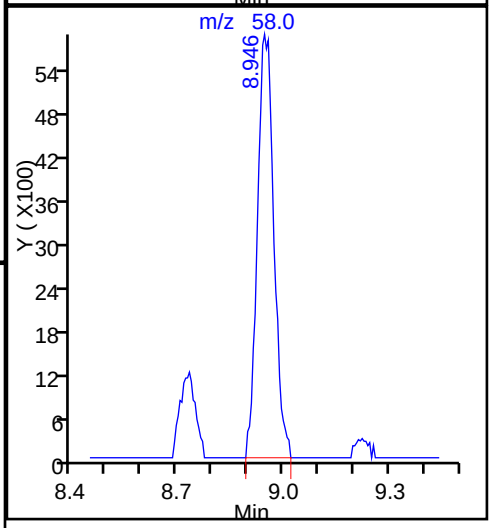
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

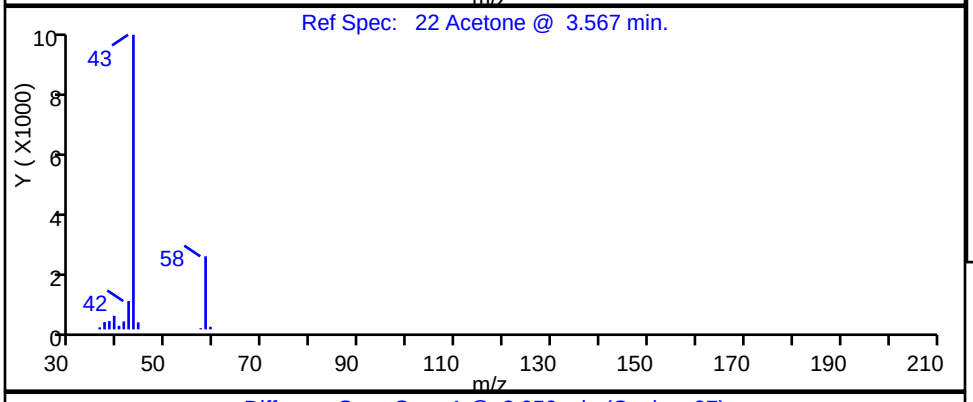
22 Acetone, CAS: 67-64-1

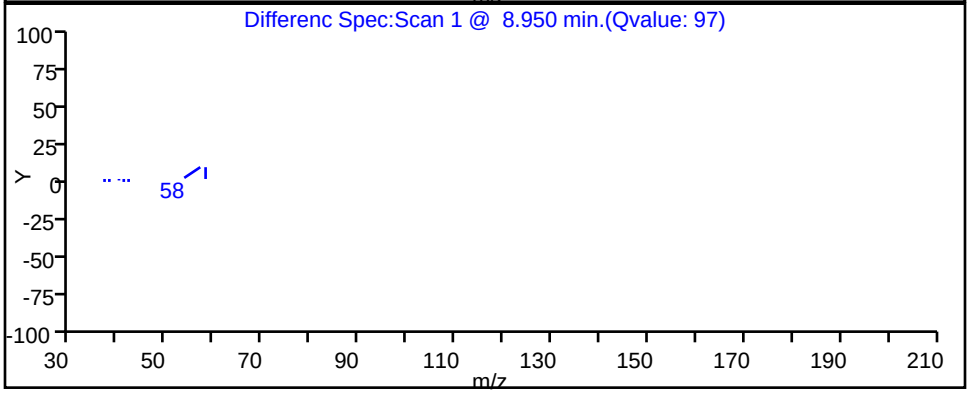










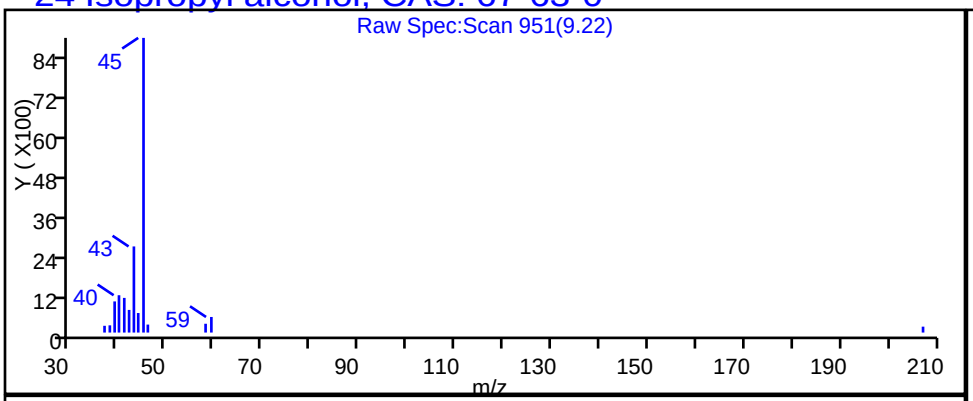


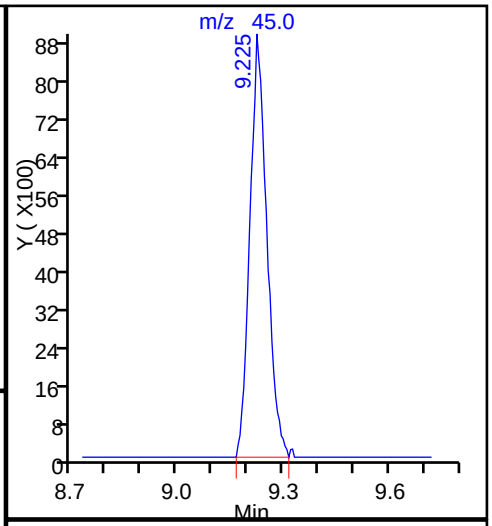
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

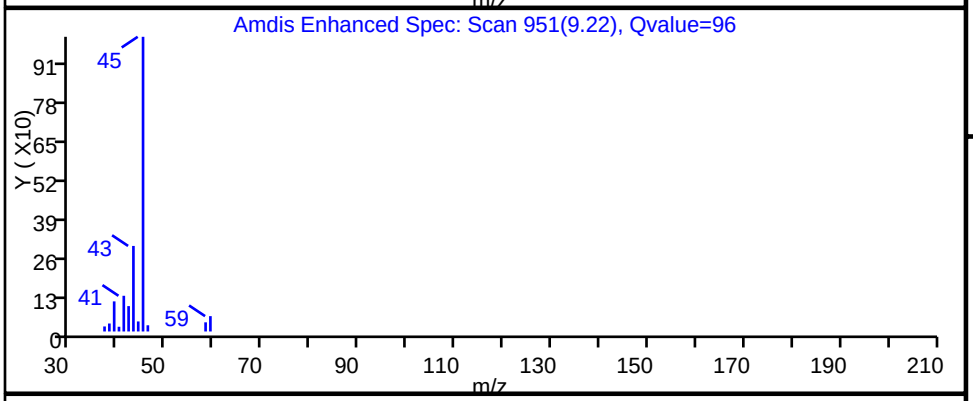
TestAmerica Burlington

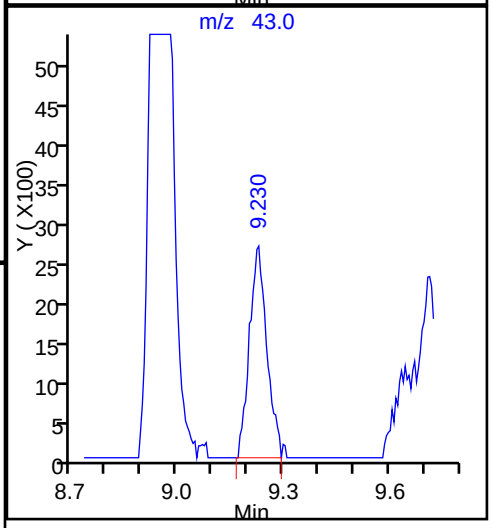
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

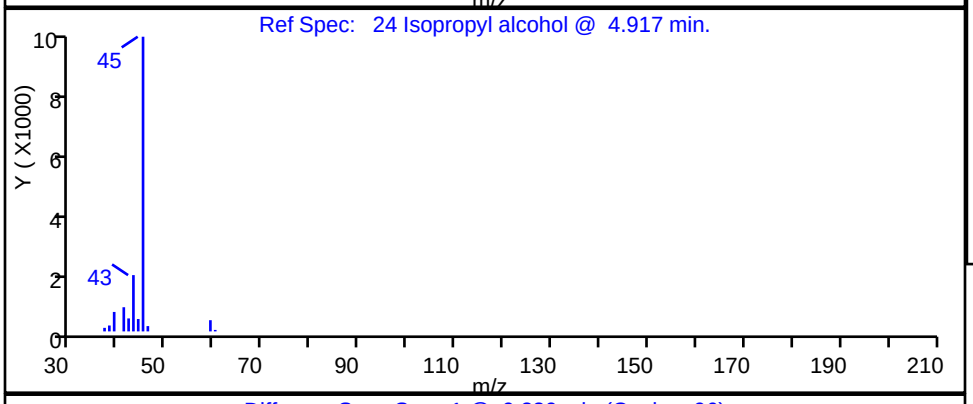
24 Isopropyl alcohol, CAS: 67-63-0

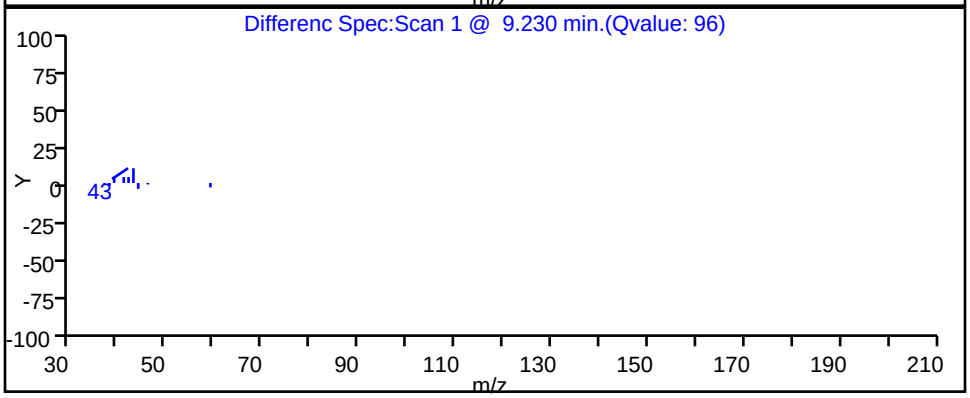










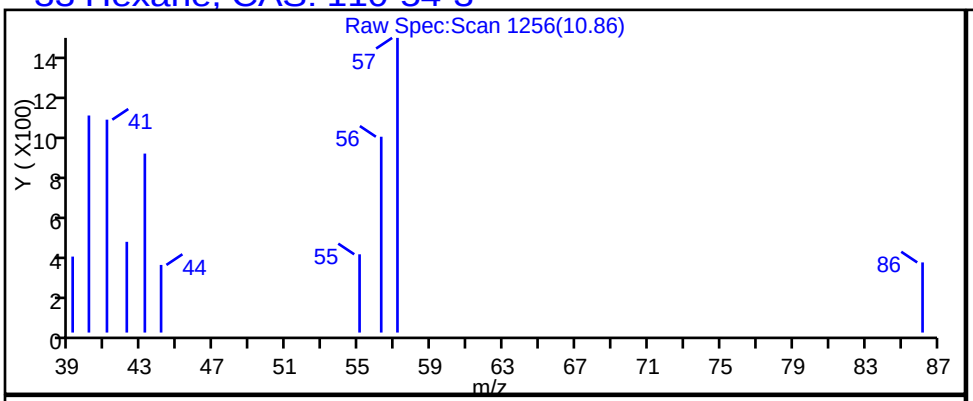


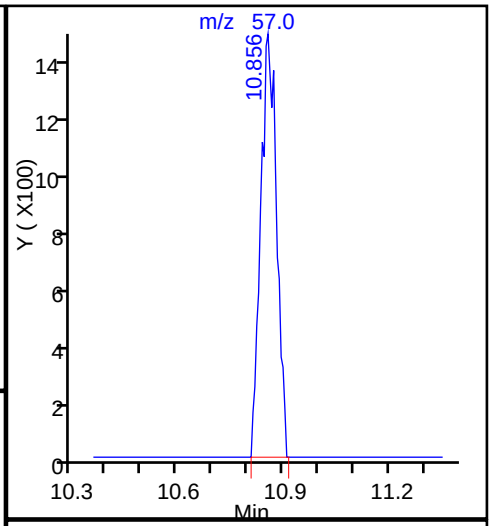
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

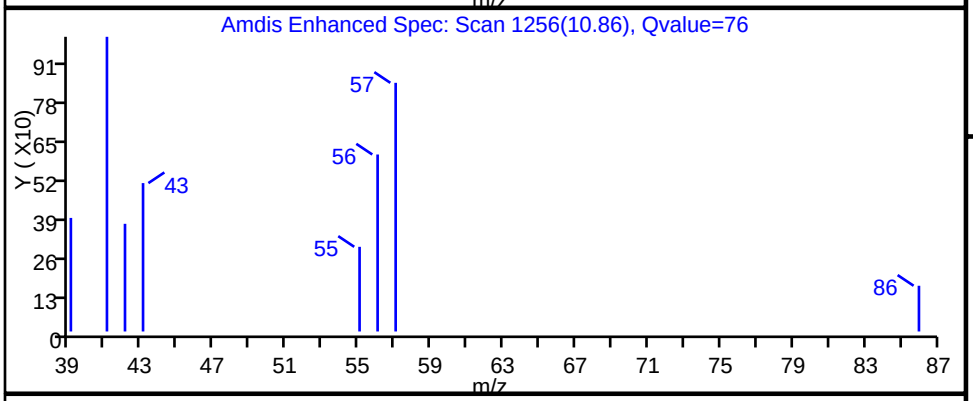
TestAmerica Burlington

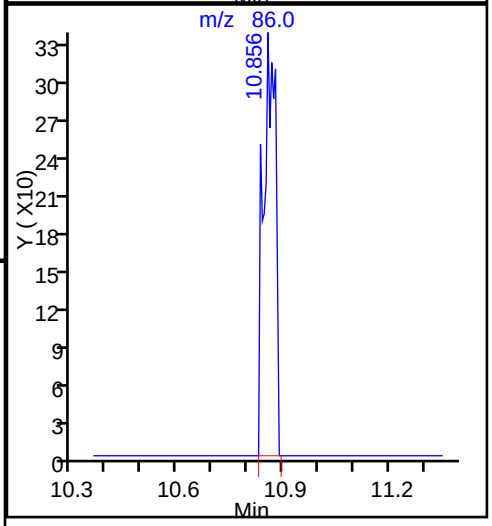
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

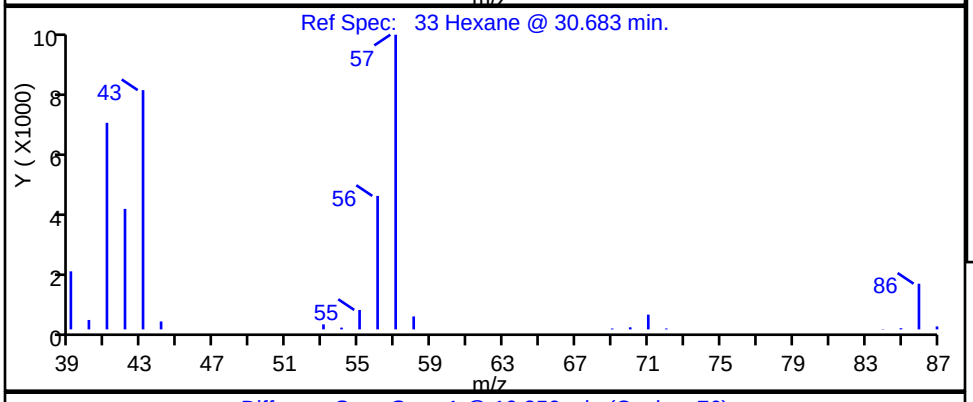
33 Hexane, CAS: 110-54-3

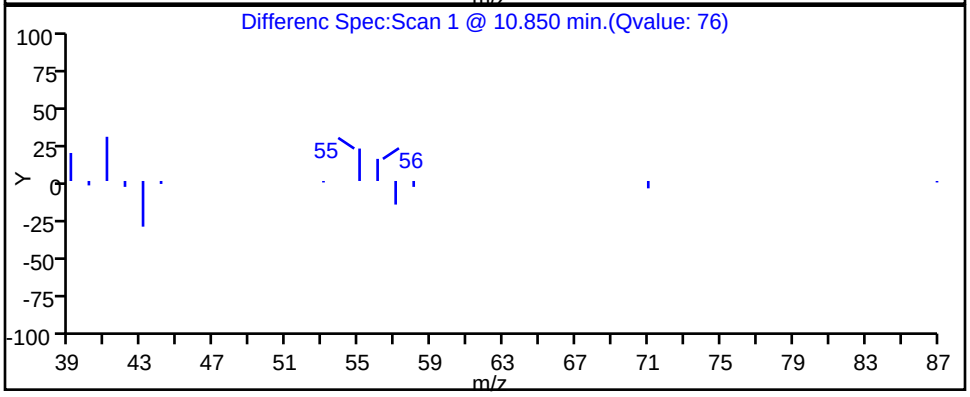












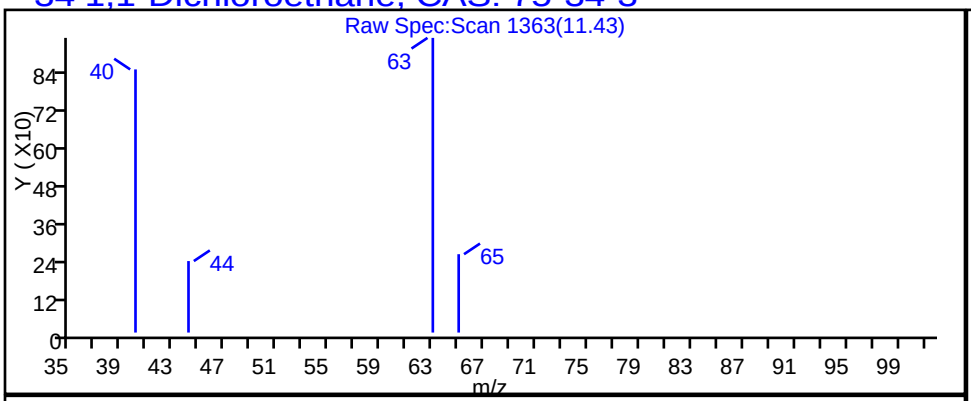
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

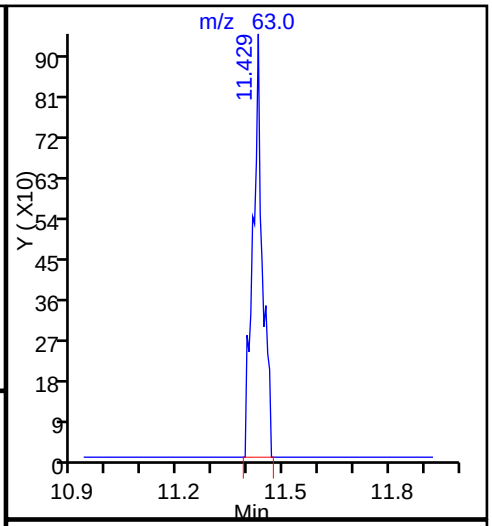
TestAmerica Burlington

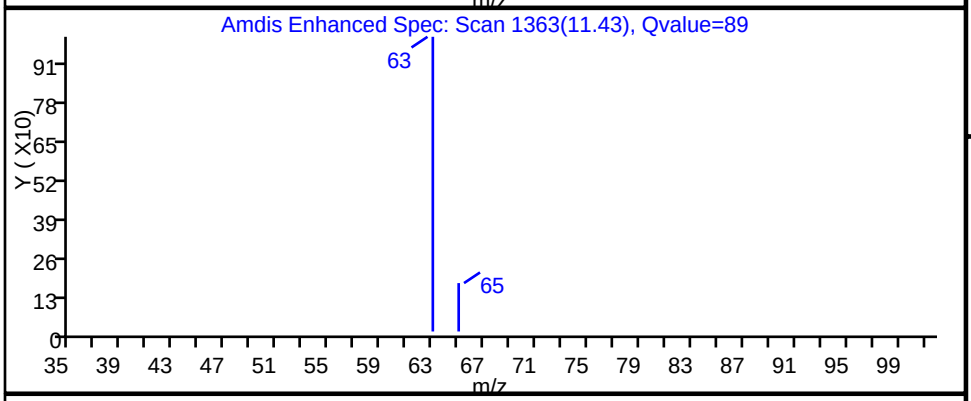
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

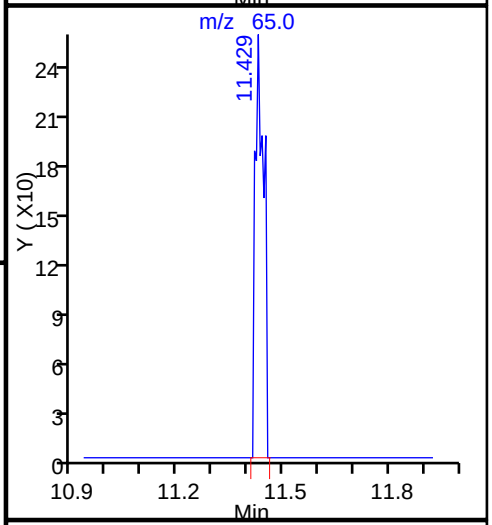
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

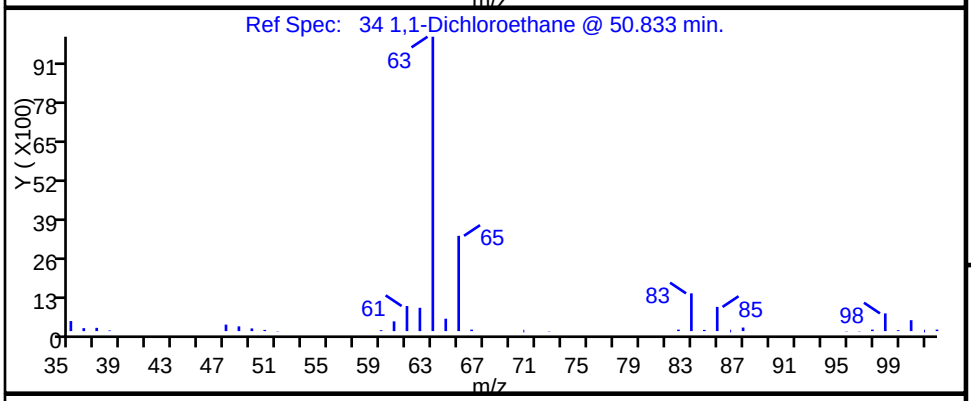
34 1,1-Dichloroethane, CAS: 75-34-3

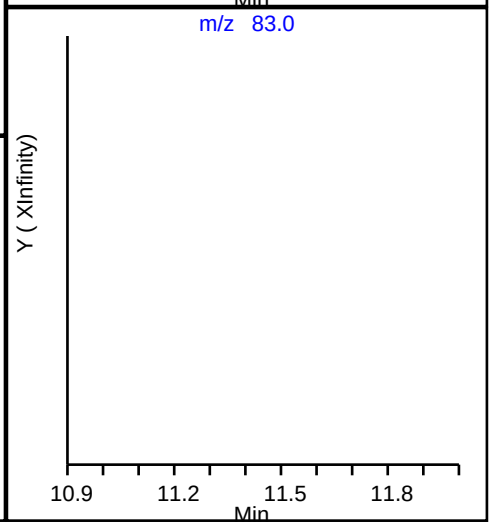


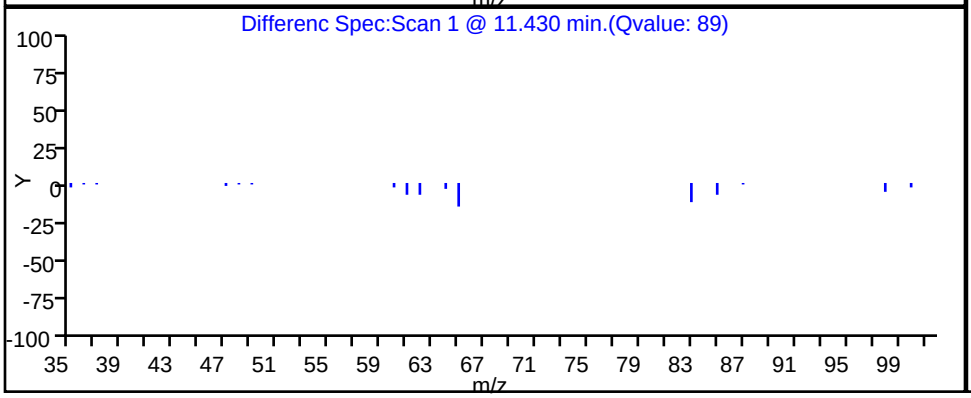












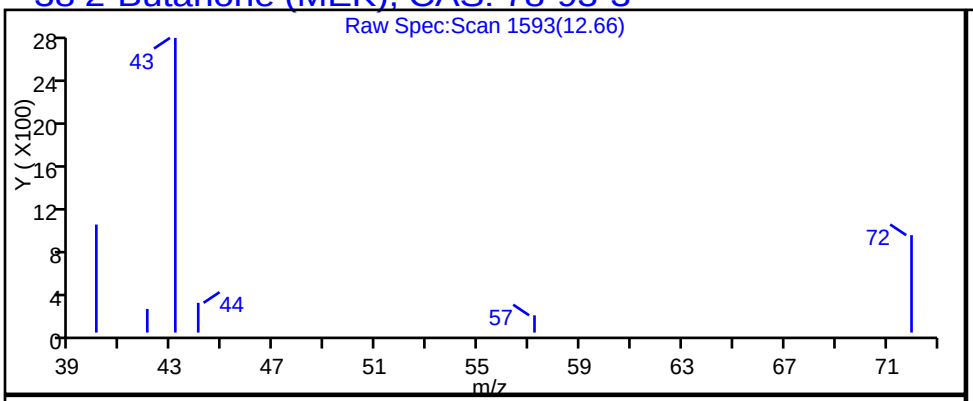
Report Date: 30-Sep-2015 14:18:41 Chrom Revision: 2.2 23-Jul-2015 08:26:08

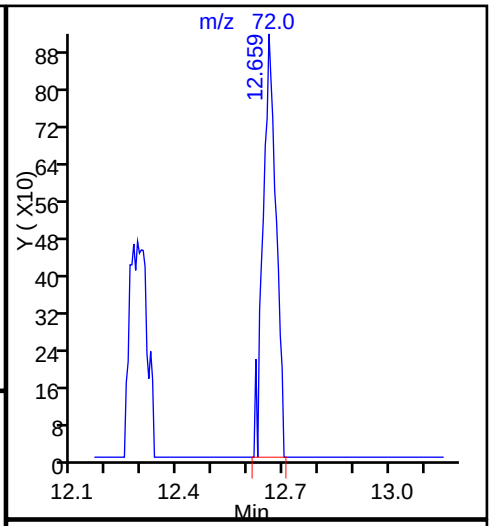
TestAmerica Burlington

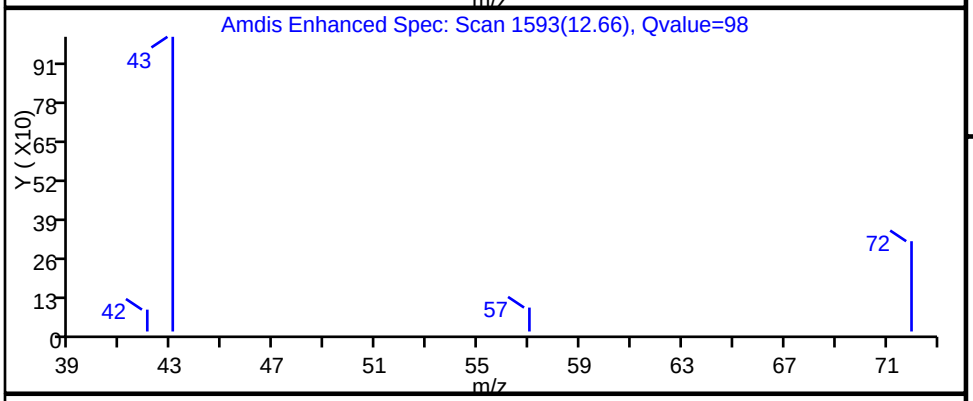
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

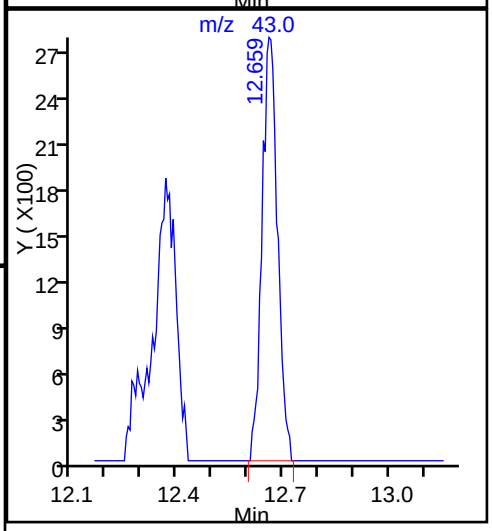
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

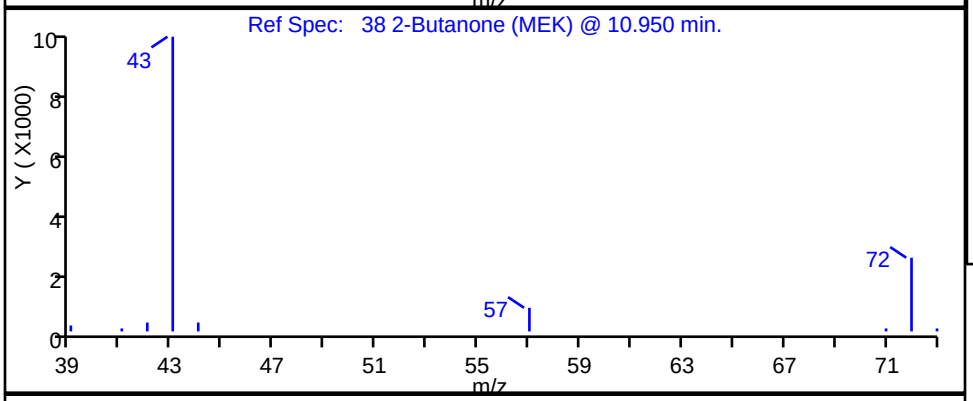
38 2-Butanone (MEK), CAS: 78-93-3

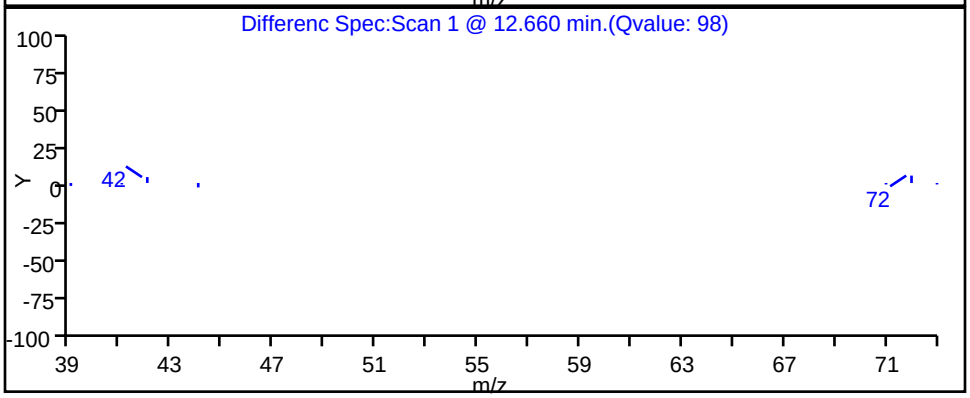










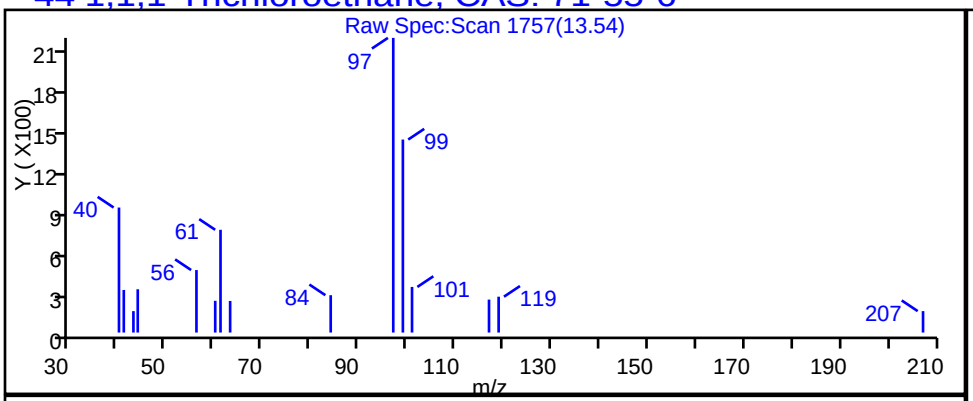


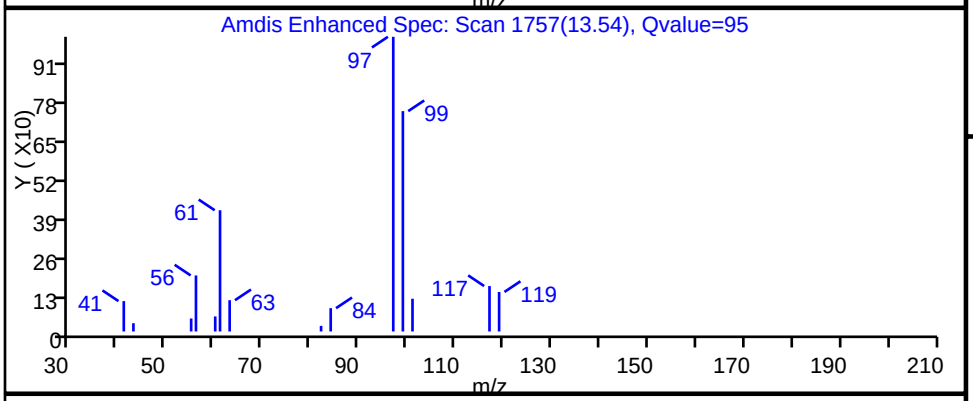
Report Date: 30-Sep-2015 14:18:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

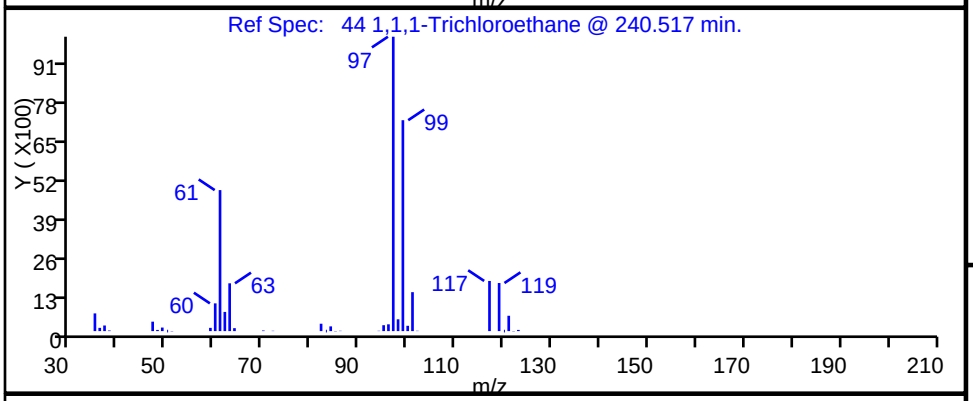
TestAmerica Burlington

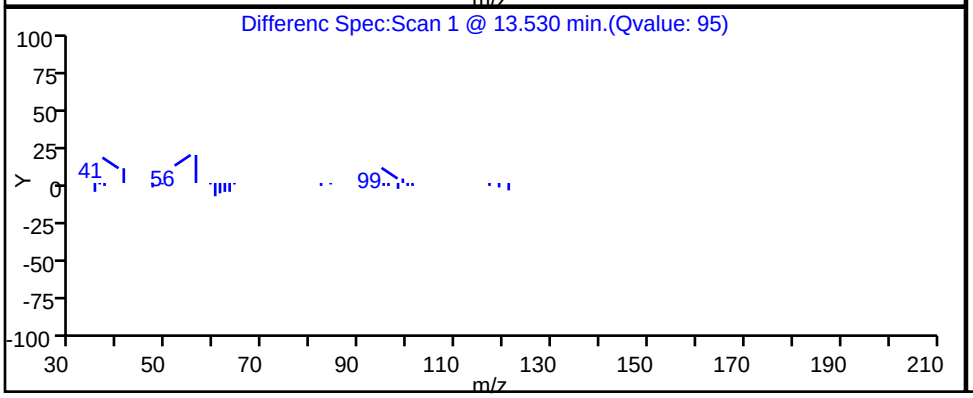
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

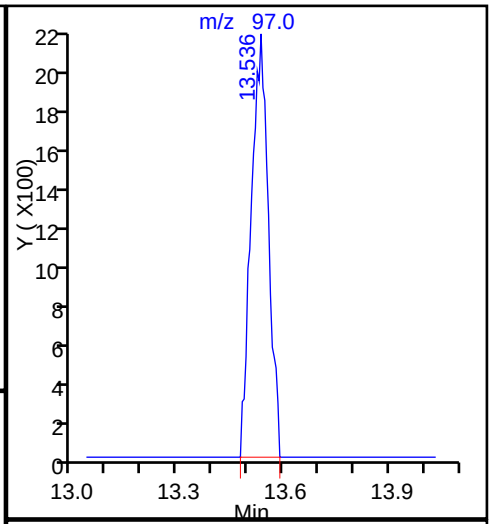
44 1,1,1-Trichloroethane, CAS: 71-55-6

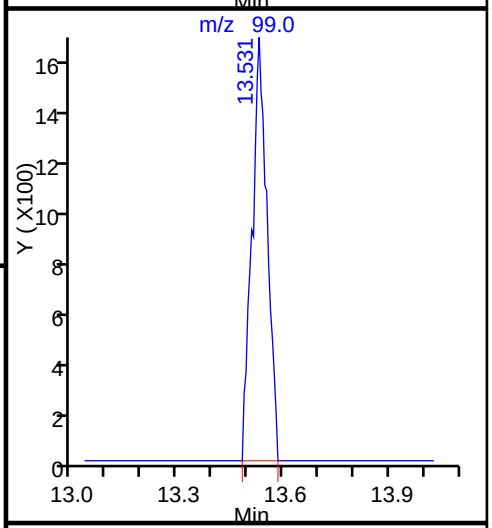


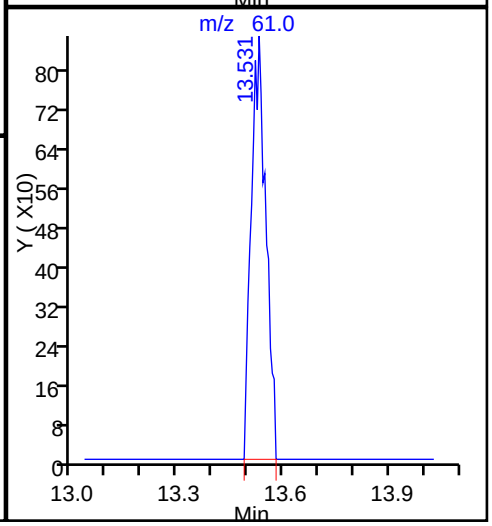












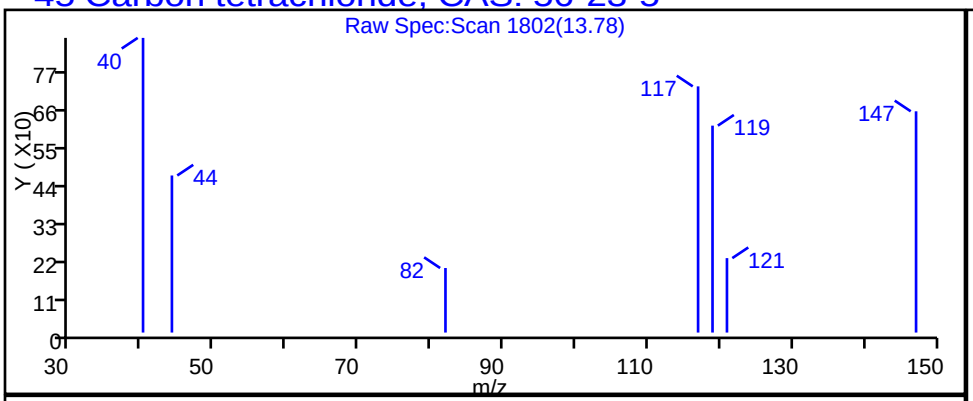
Report Date: 30-Sep-2015 14:18:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

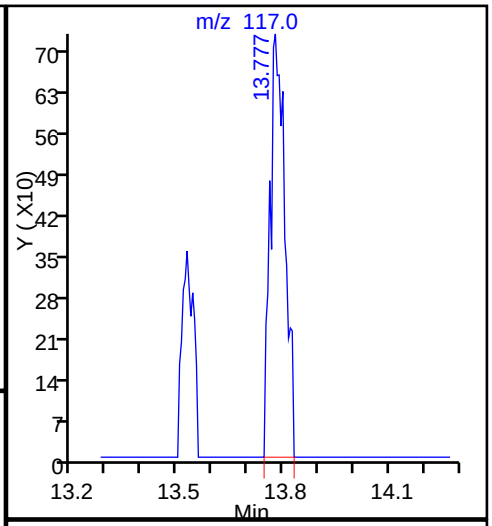
TestAmerica Burlington

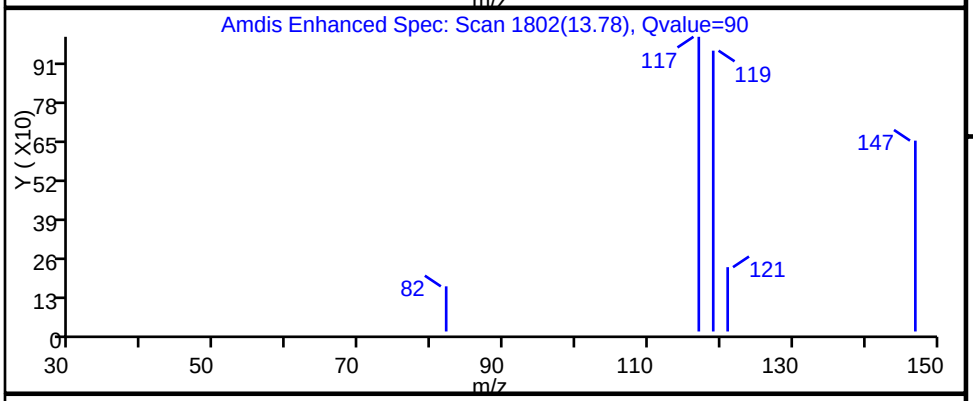
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

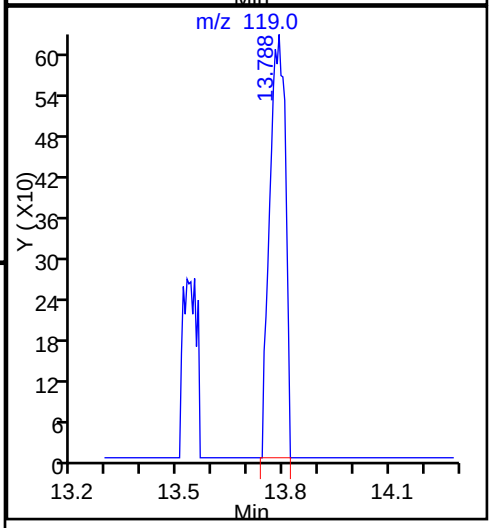
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

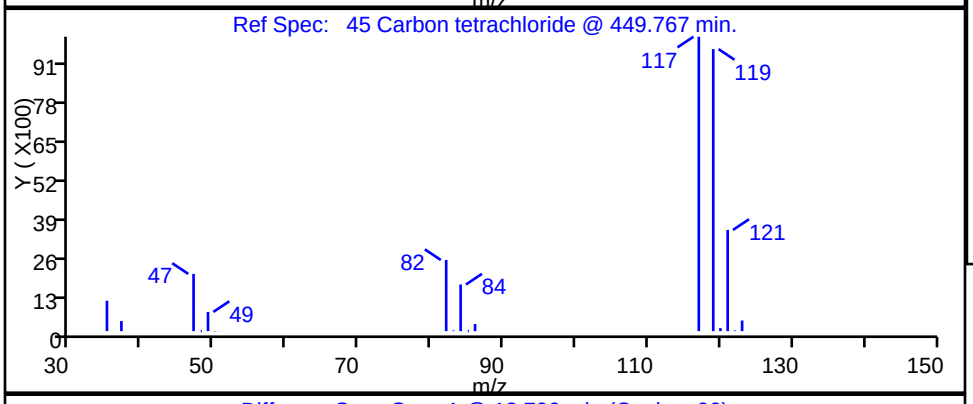
45 Carbon tetrachloride, CAS: 56-23-5

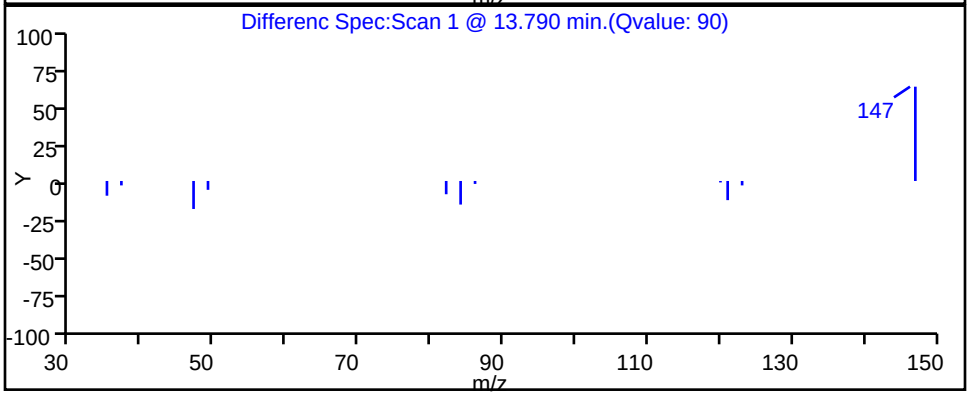












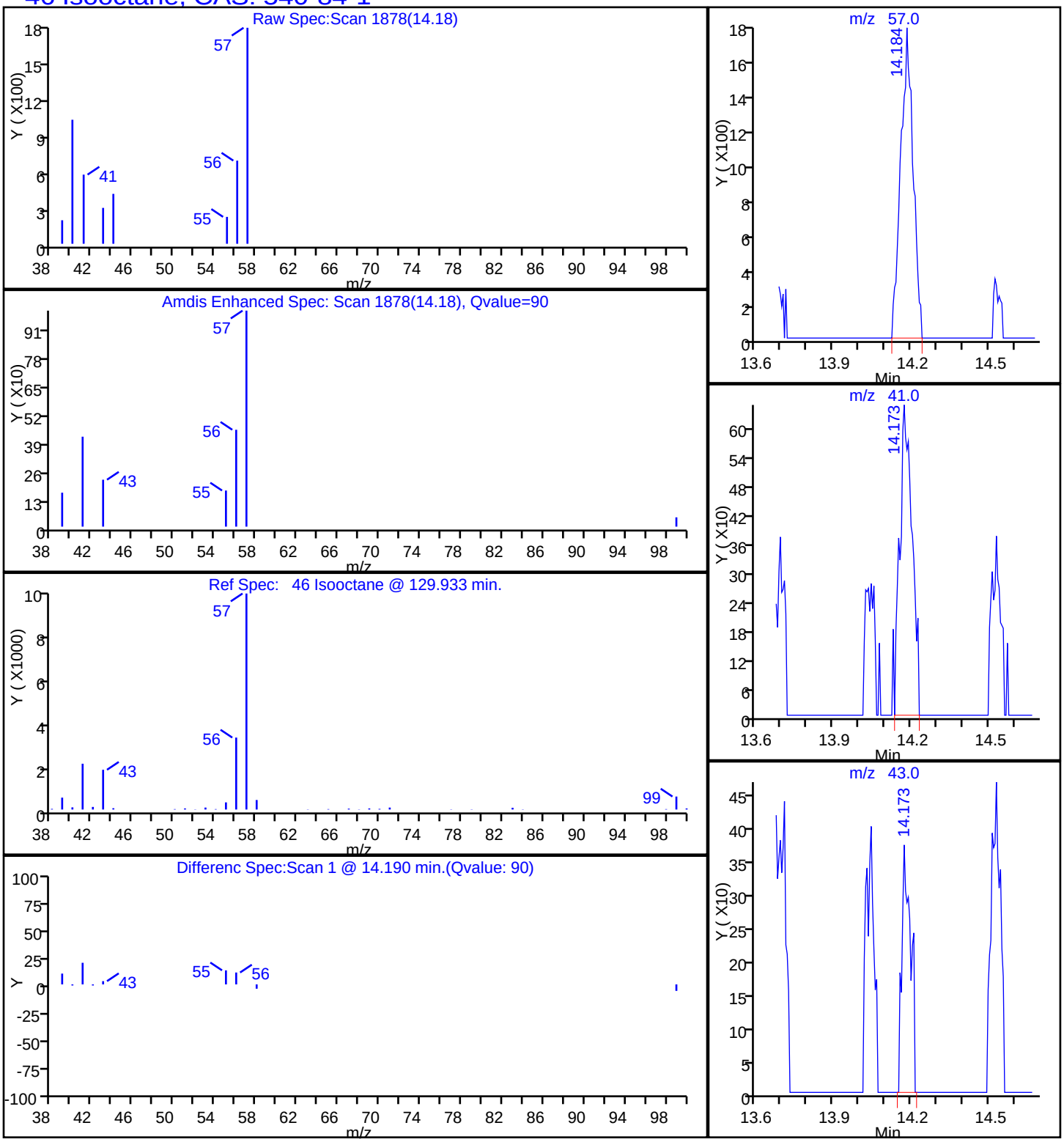
Report Date: 30-Sep-2015 14:18:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1

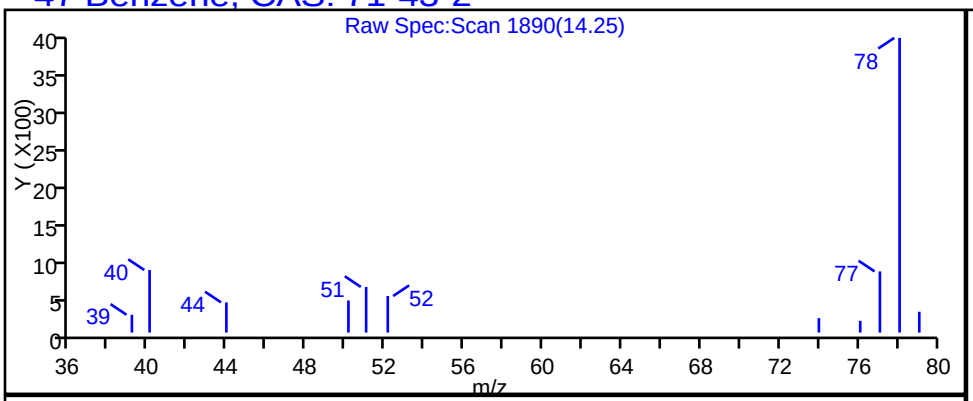


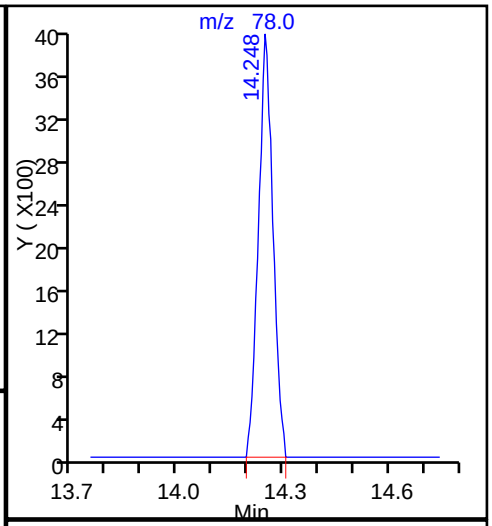
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

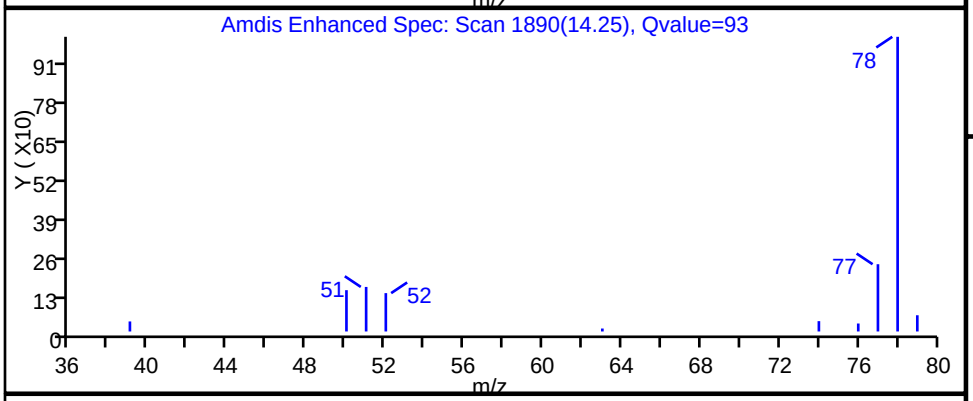
TestAmerica Burlington

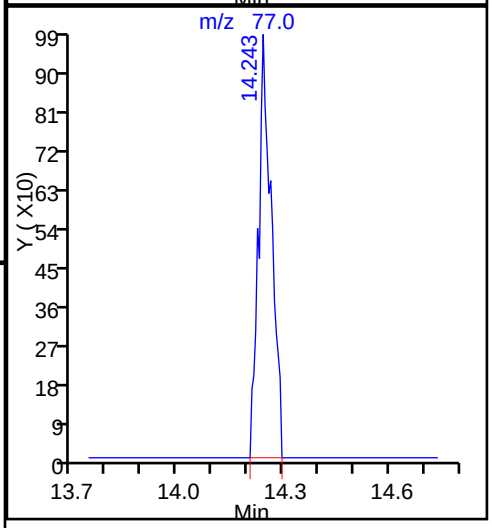
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

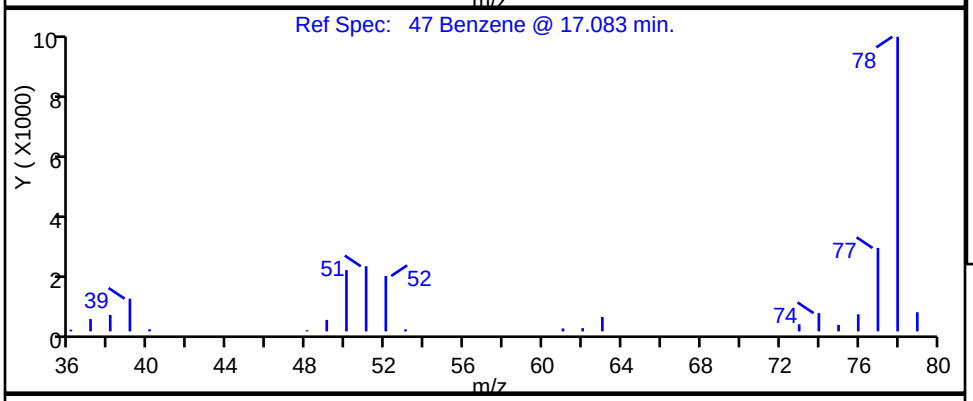
47 Benzene, CAS: 71-43-2

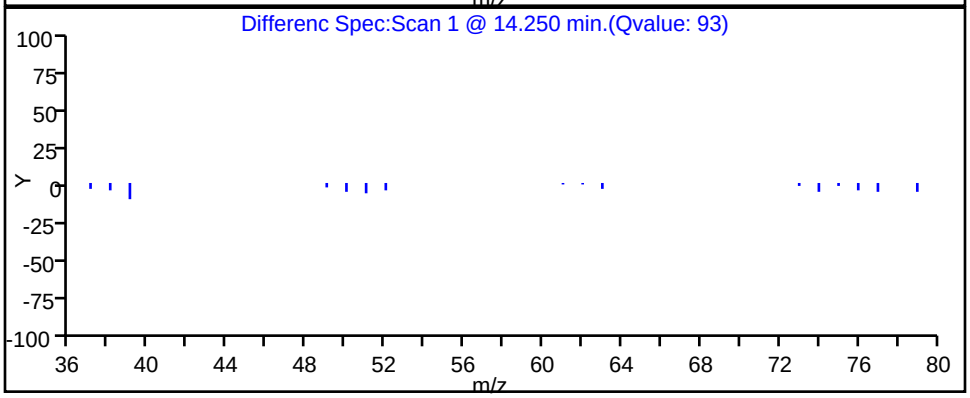












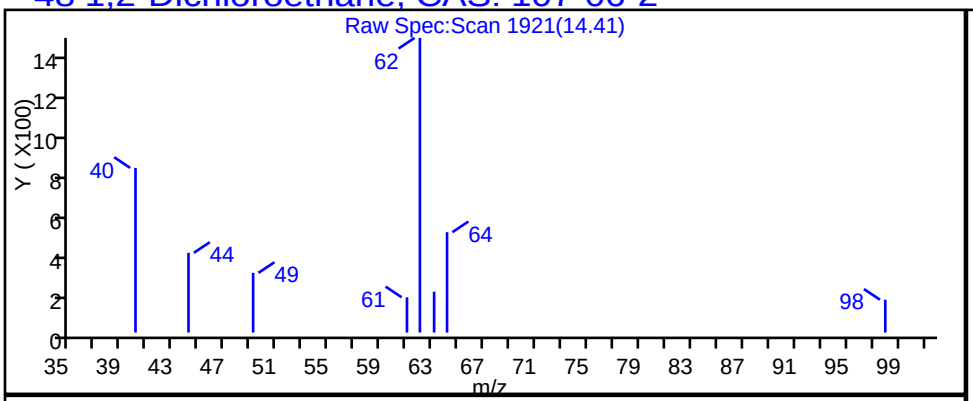
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

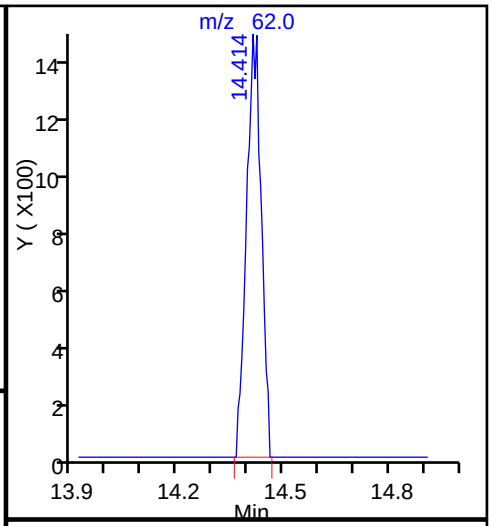
TestAmerica Burlington

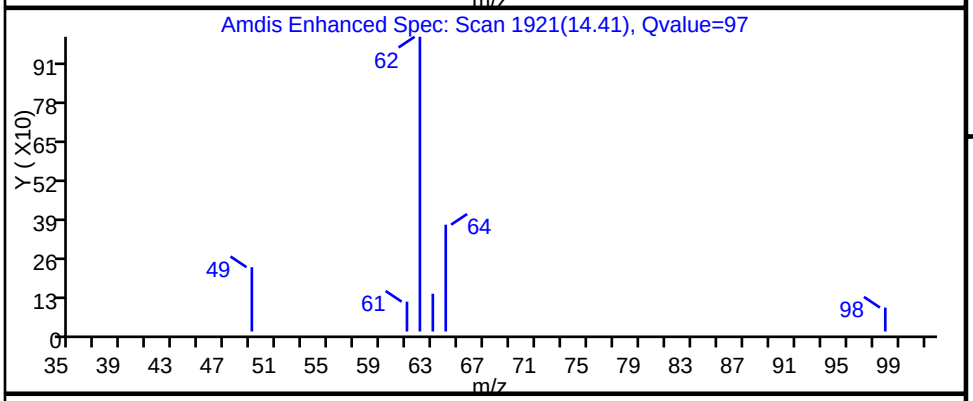
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

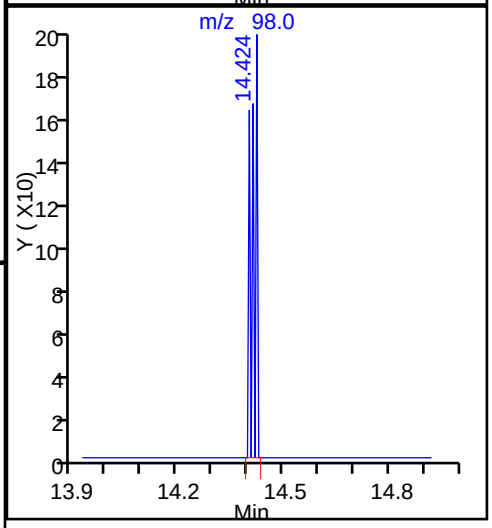
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

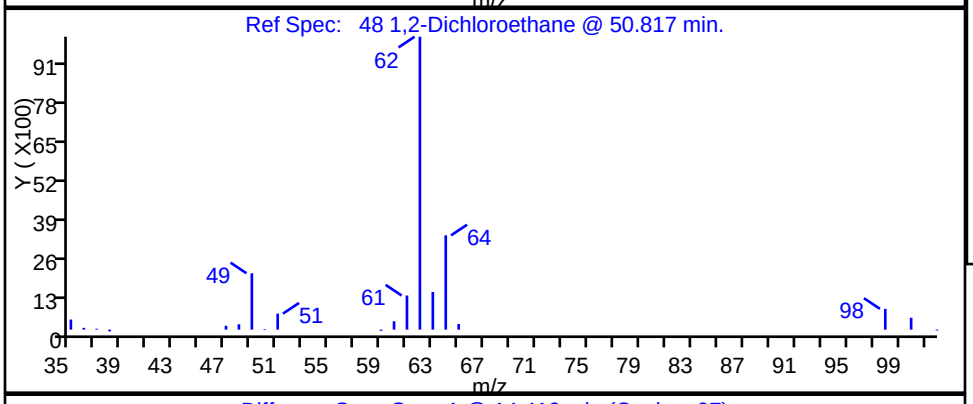
48 1,2-Dichloroethane, CAS: 107-06-2

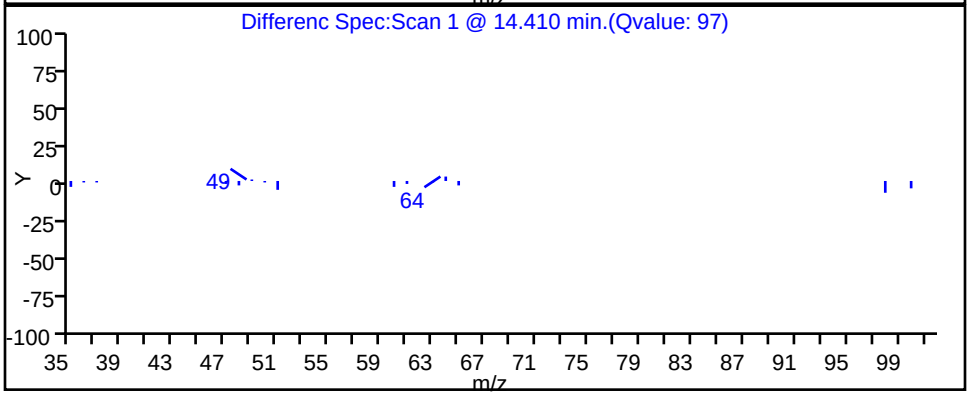












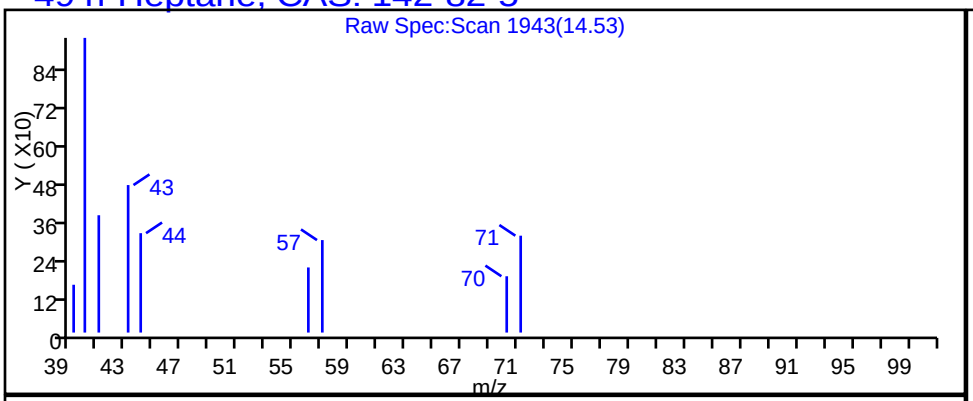
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

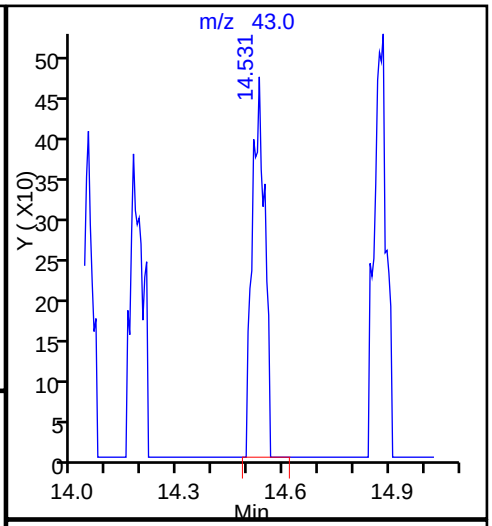
TestAmerica Burlington

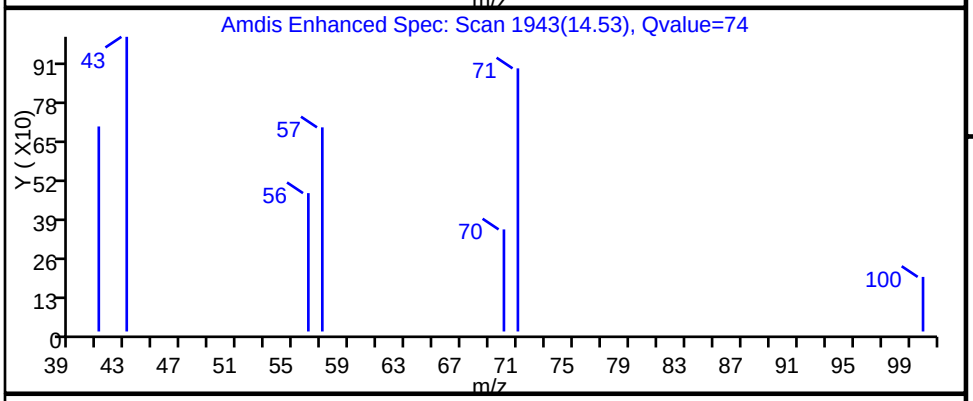
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

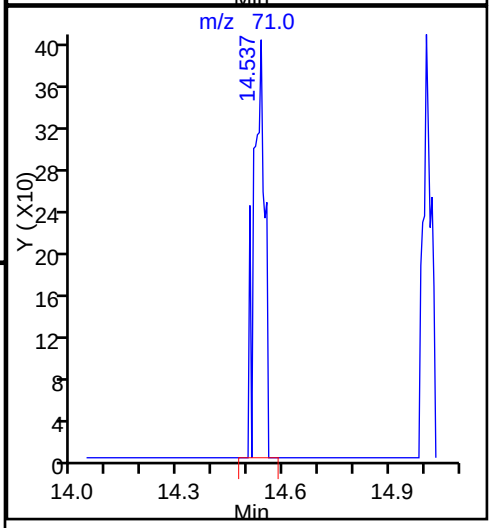
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

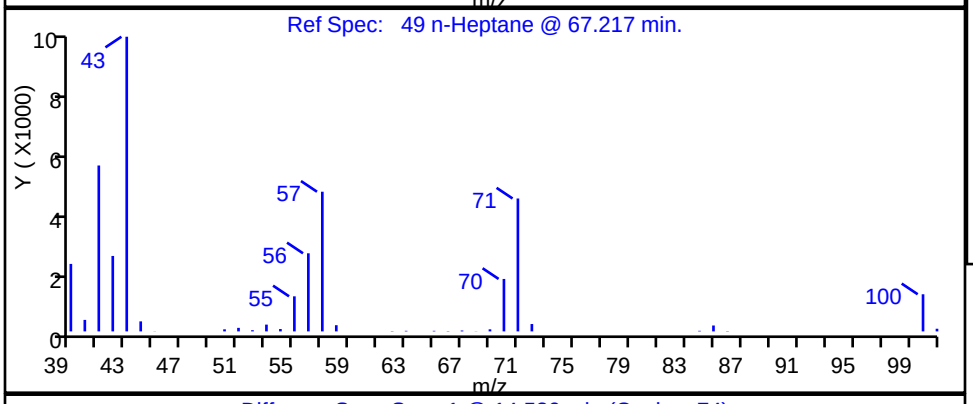
49 n-Heptane, CAS: 142-82-5

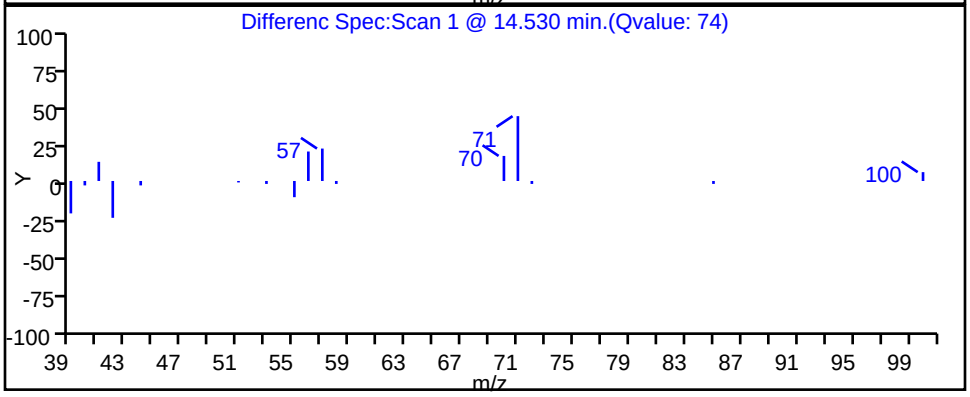












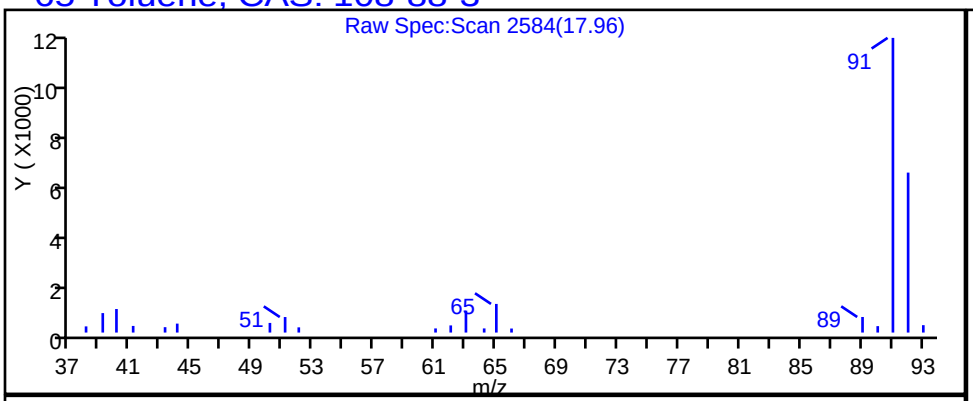
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

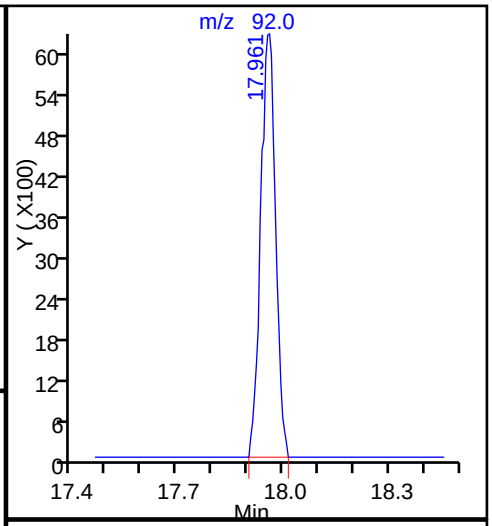
TestAmerica Burlington

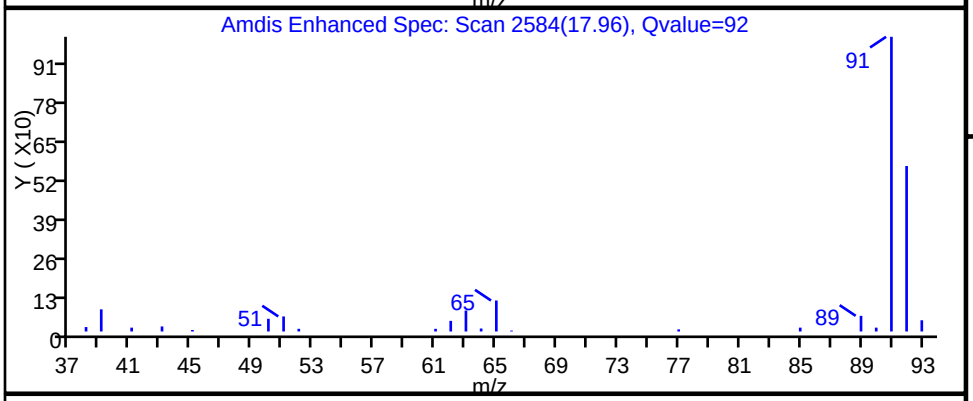
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d

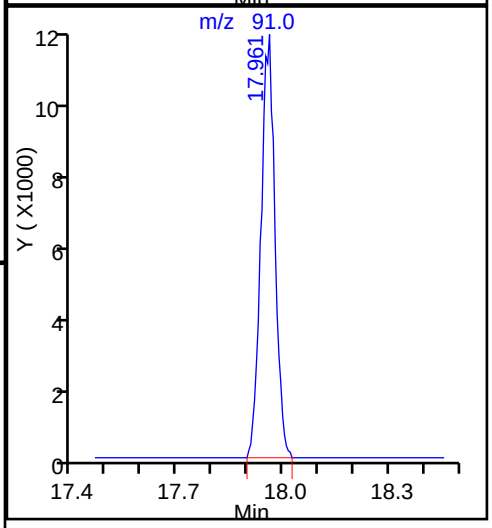
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

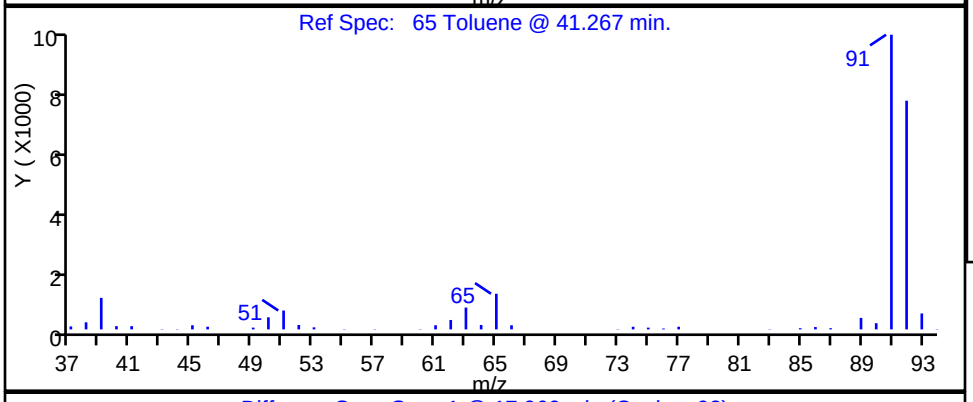
65 Toluene, CAS: 108-88-3

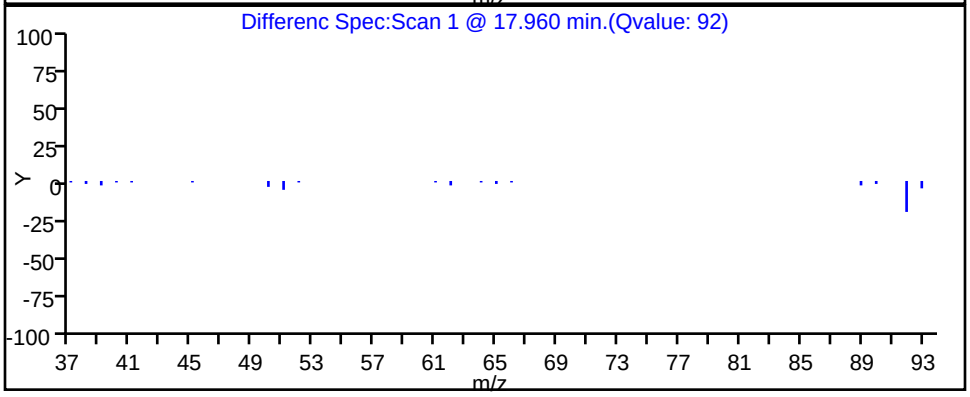










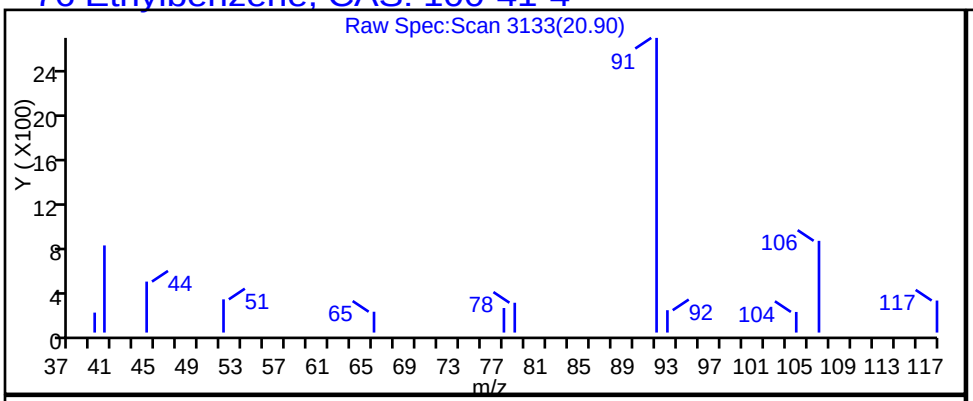


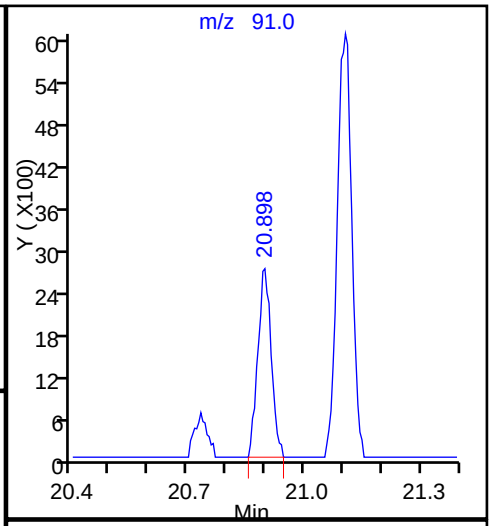
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

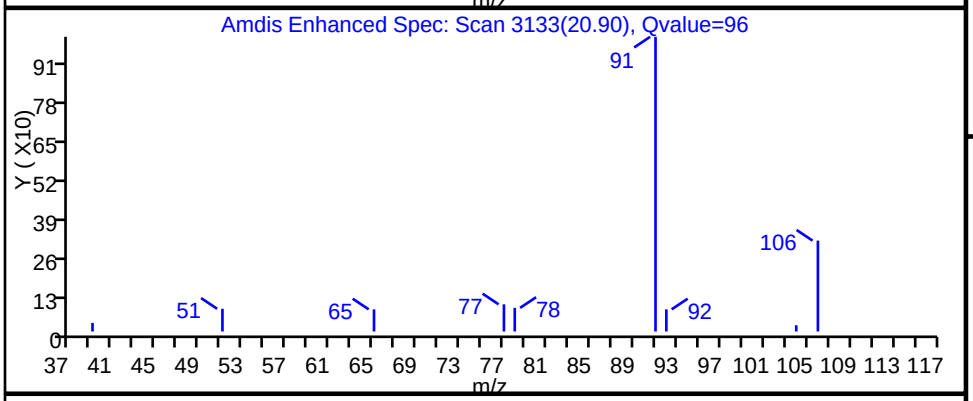
TestAmerica Burlington

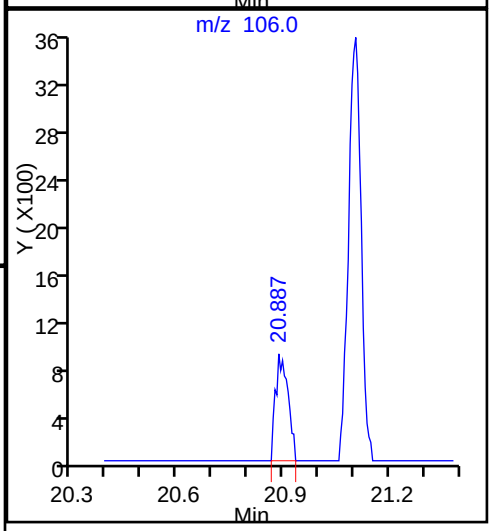
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

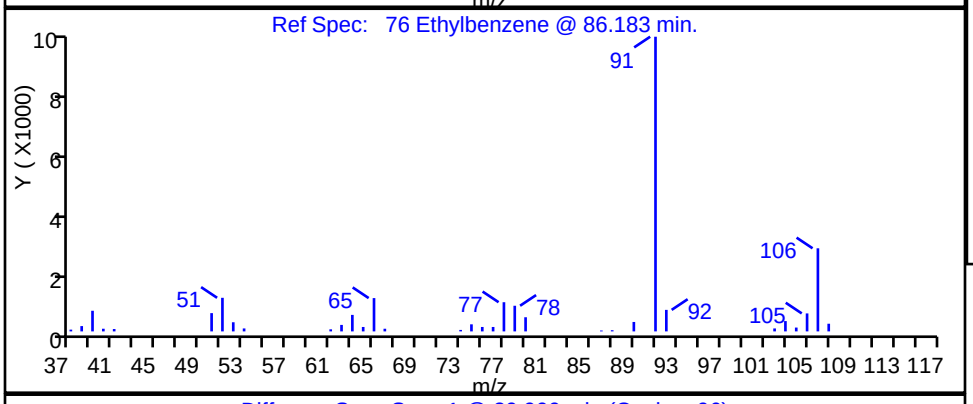
76 Ethylbenzene, CAS: 100-41-4

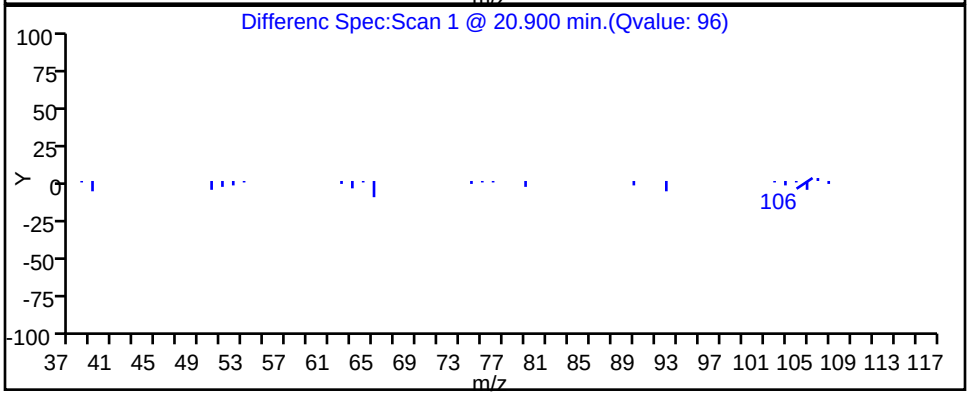










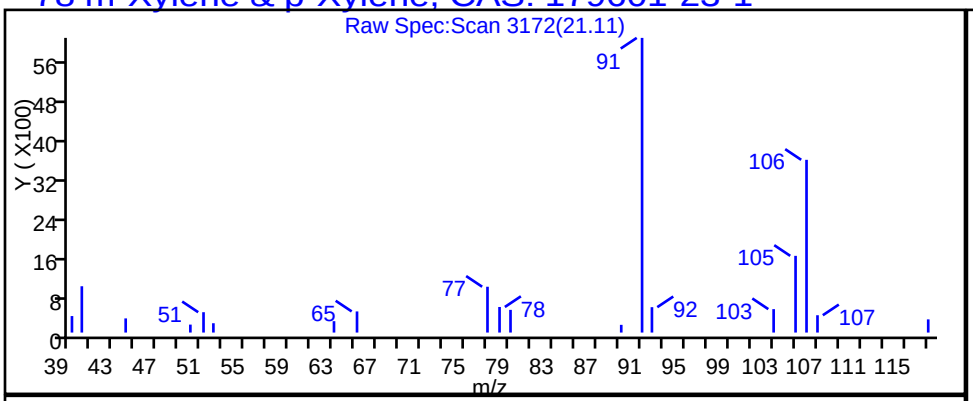


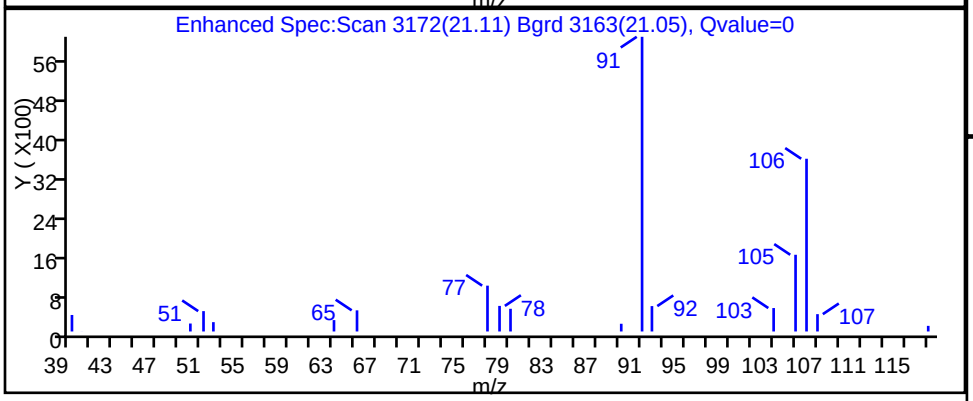
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

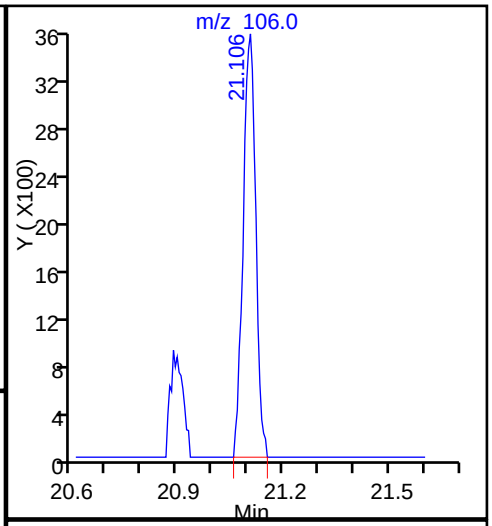
TestAmerica Burlington

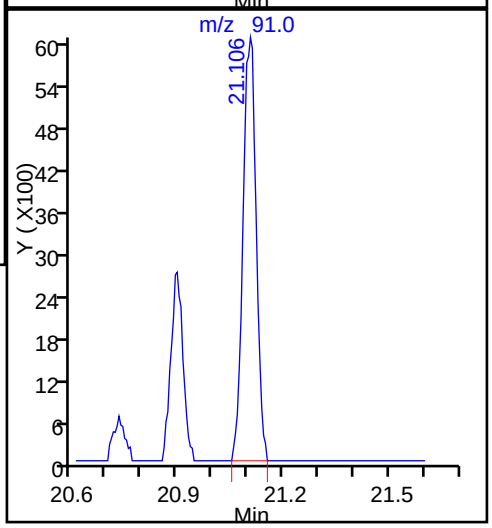
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







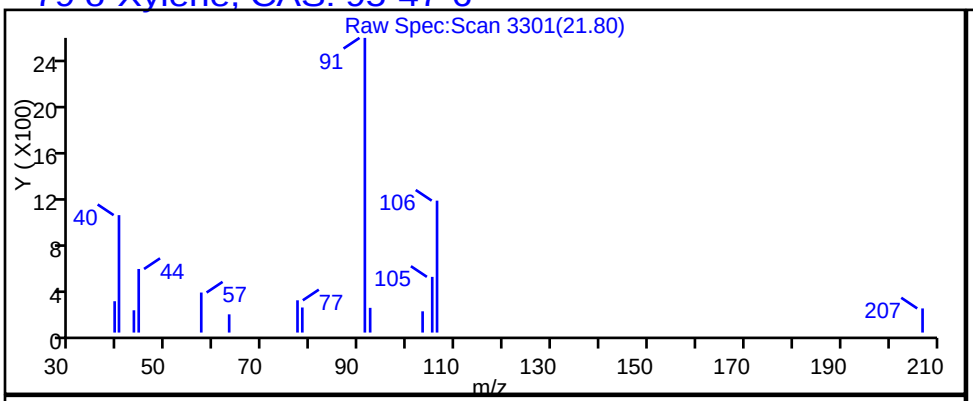


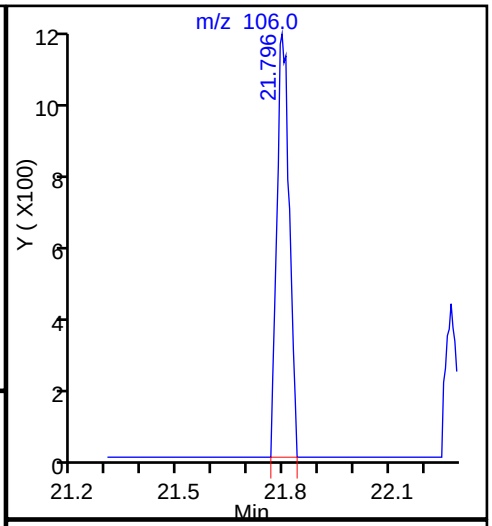
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

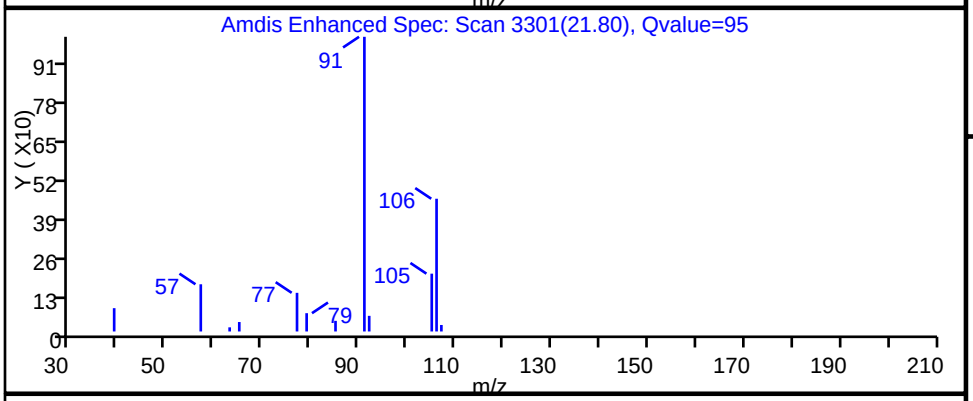
TestAmerica Burlington

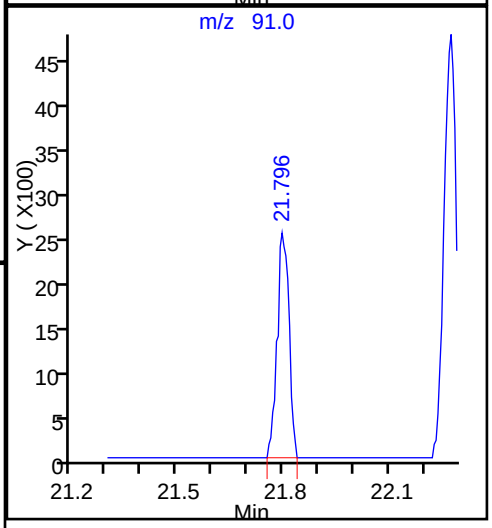
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

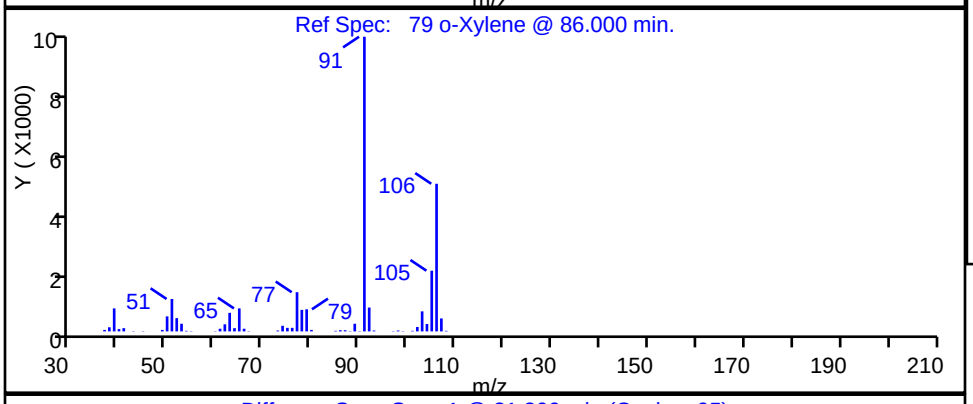
79 o-Xylene, CAS: 95-47-6

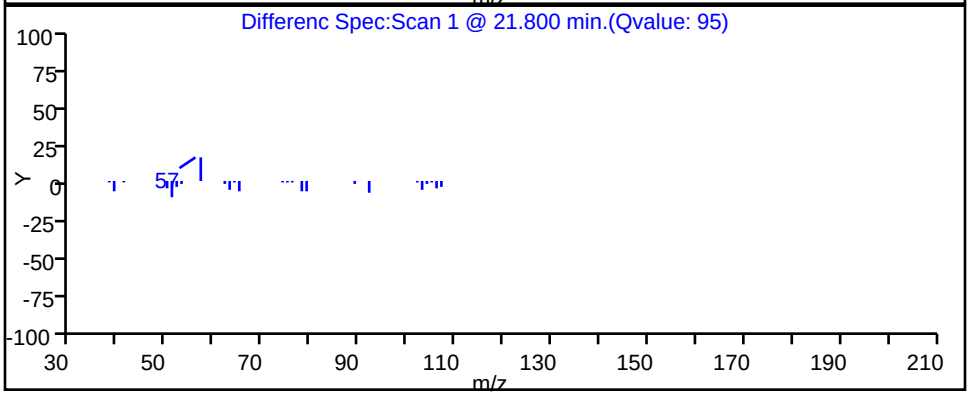










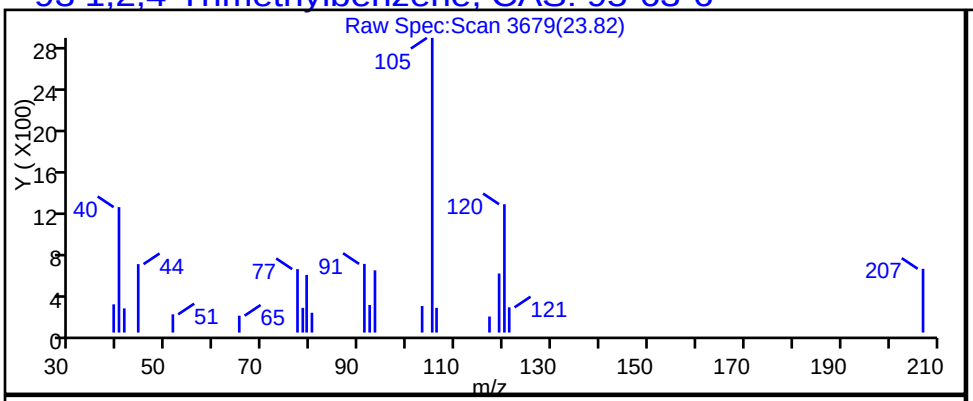


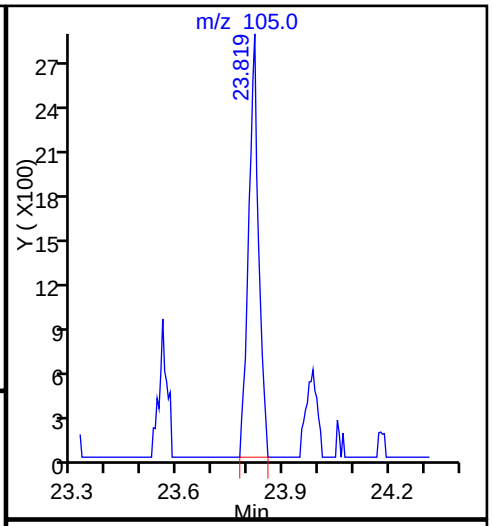
Report Date: 30-Sep-2015 14:18:43 Chrom Revision: 2.2 23-Jul-2015 08:26:08

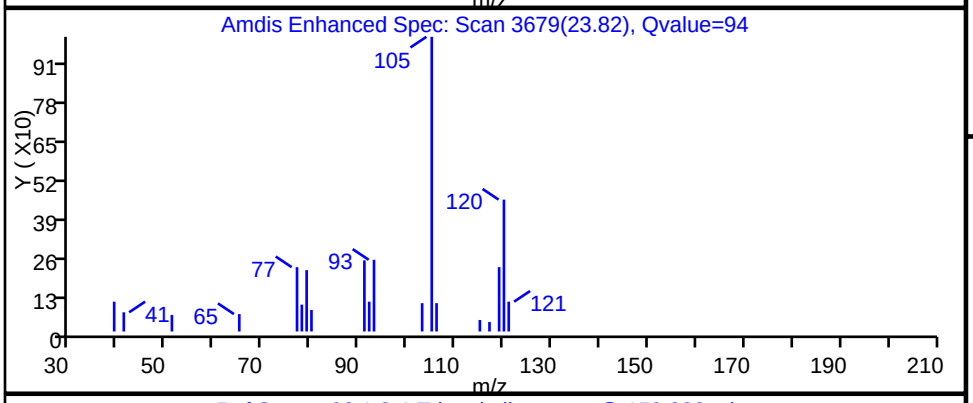
TestAmerica Burlington

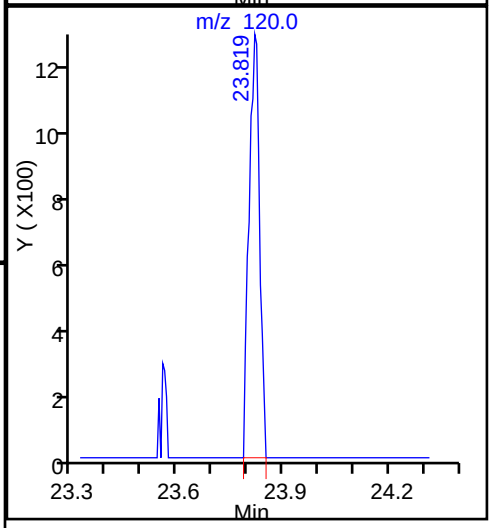
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

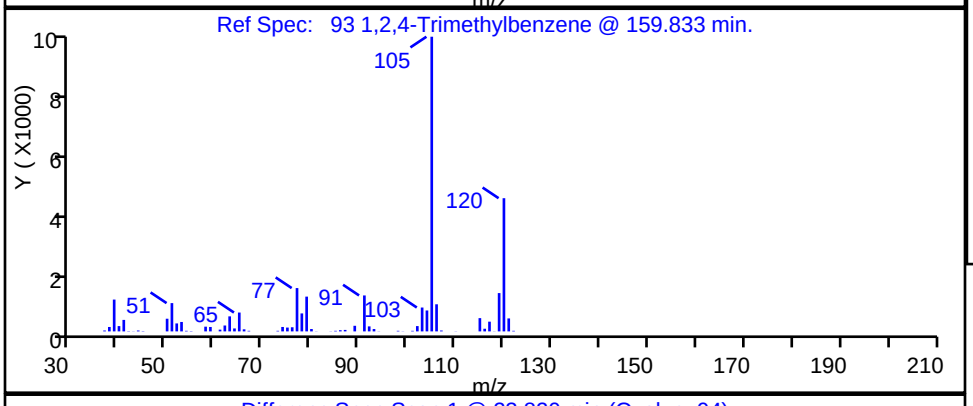
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

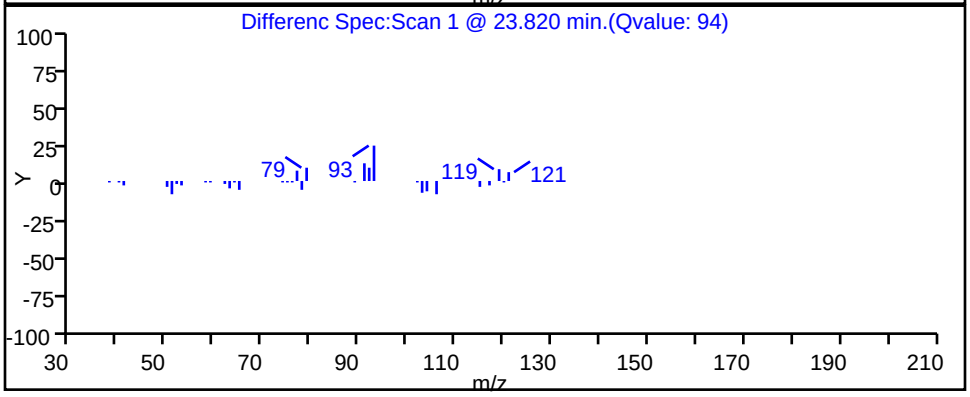












Manual Integration/User Assign Peak Report

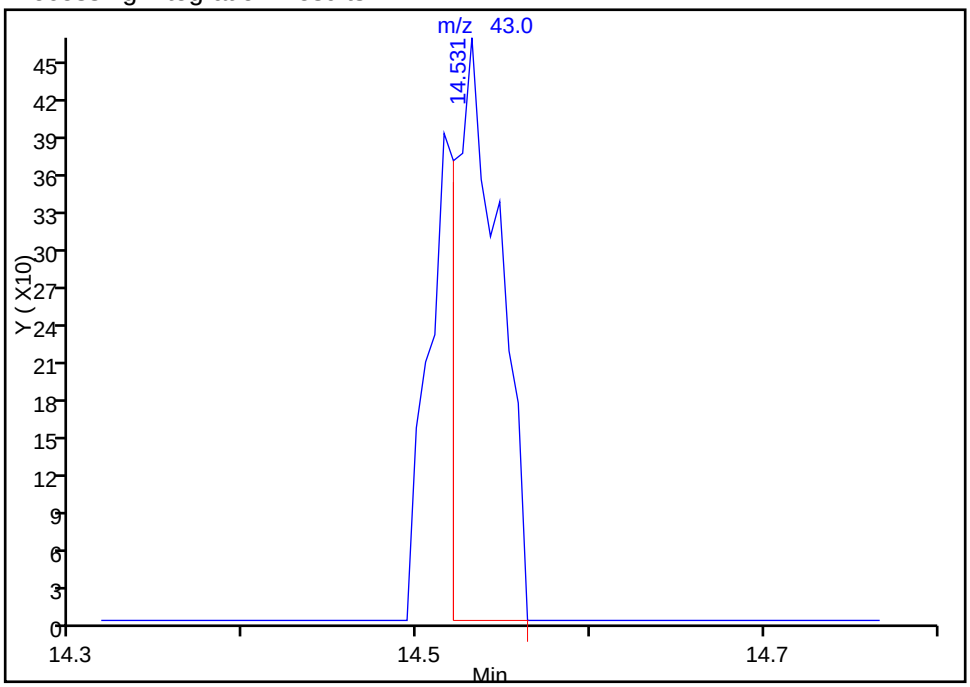
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

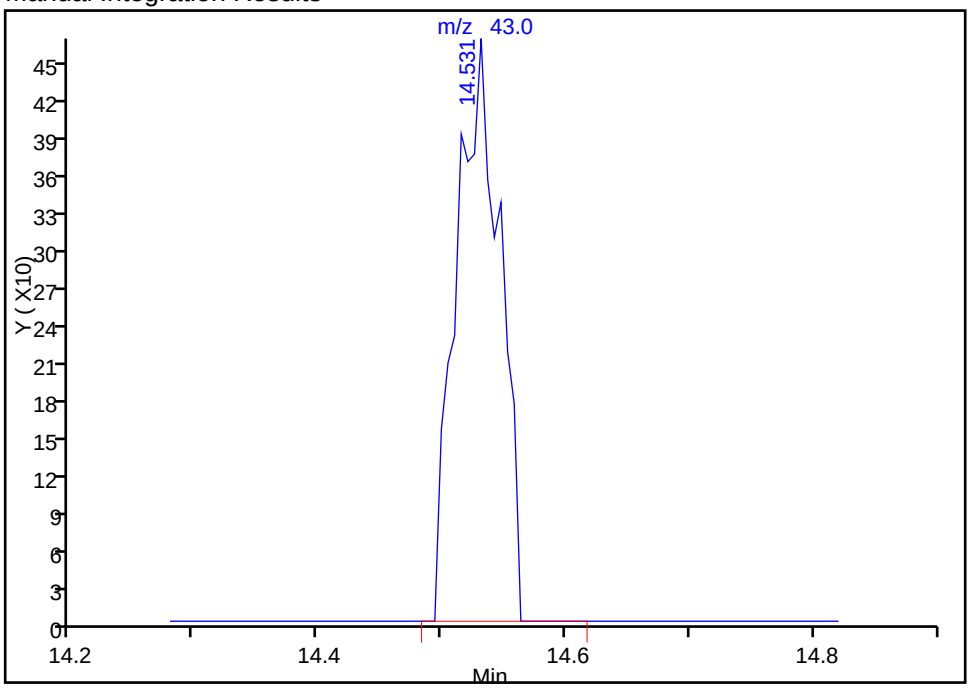
Processing Integration Results

RT: 14.53
Area: 837
Amount: 0.044265
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 1153
Amount: 0.060977
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:09:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

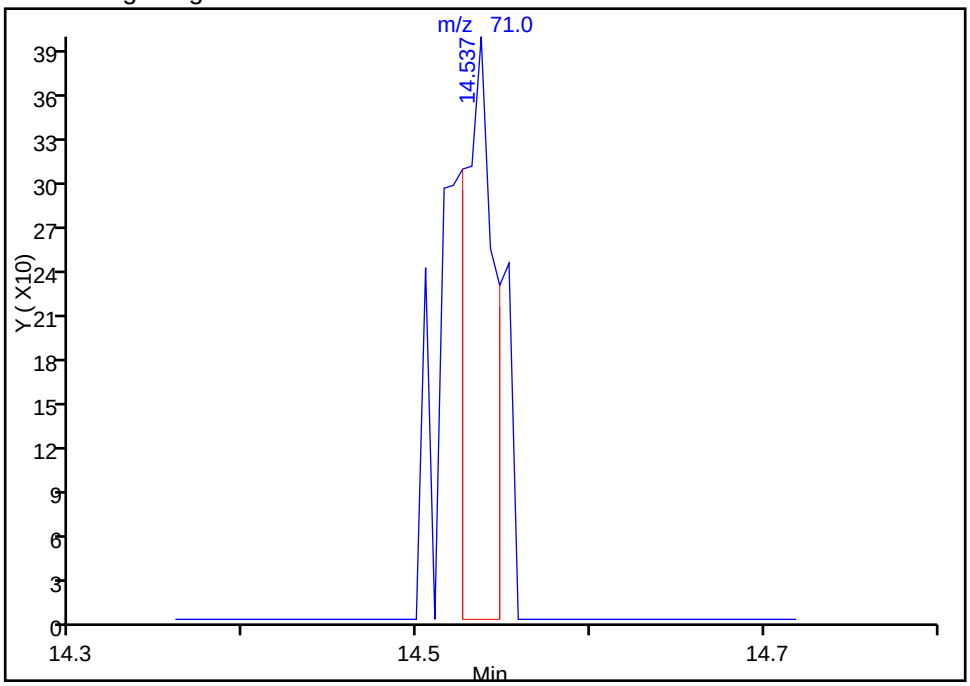
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

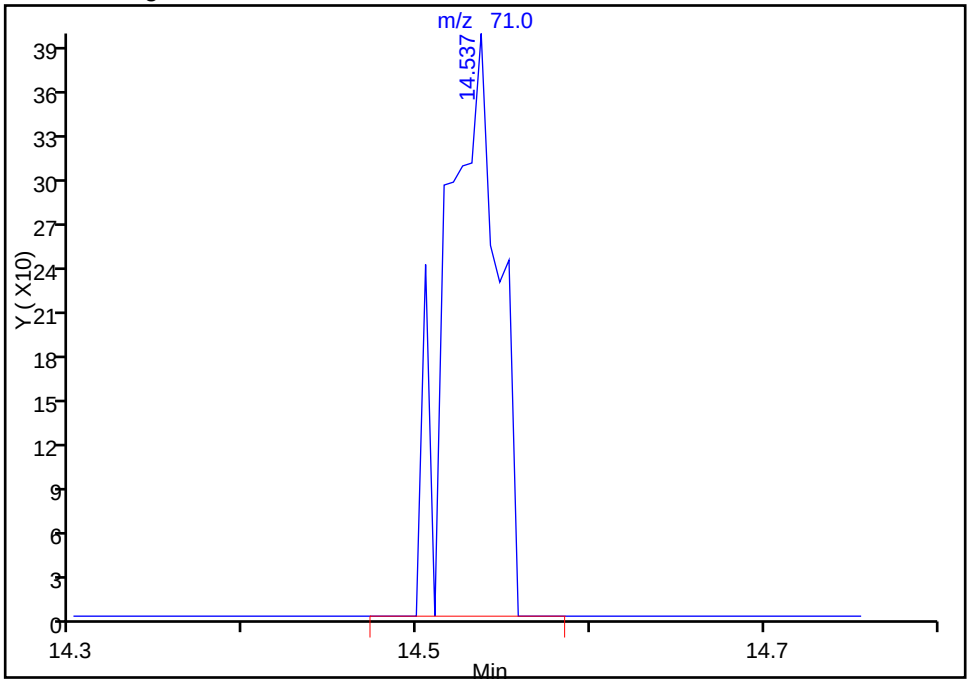
Processing Integration Results

RT: 14.54
Area: 478
Amount: 0.044265
Amount Units: ppb v/v



Manual Integration Results

RT: 14.54
Area: 821
Amount: 0.060977
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:09:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

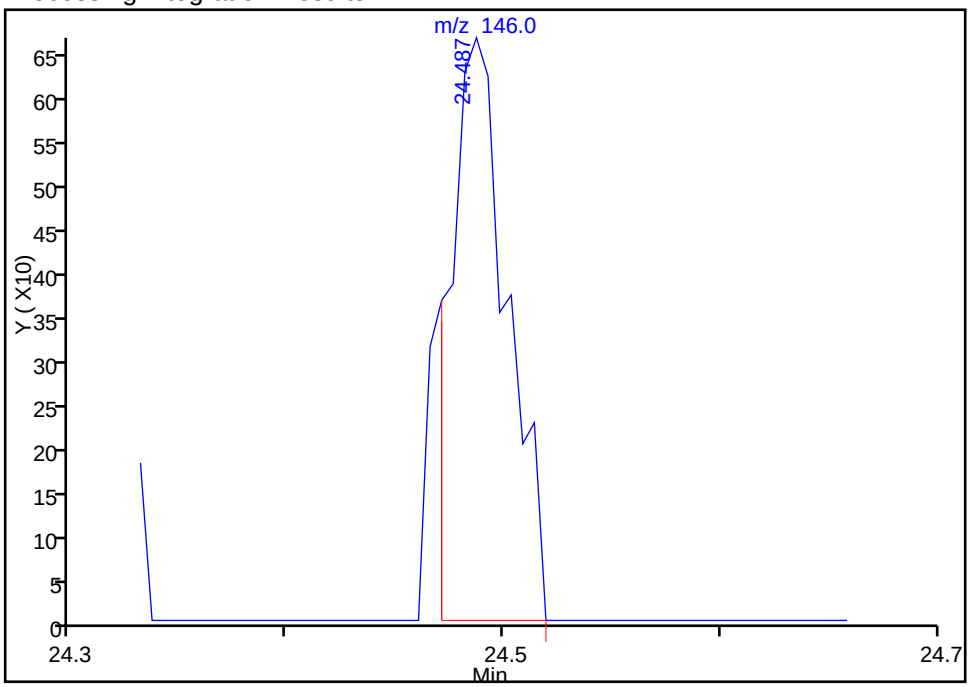
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

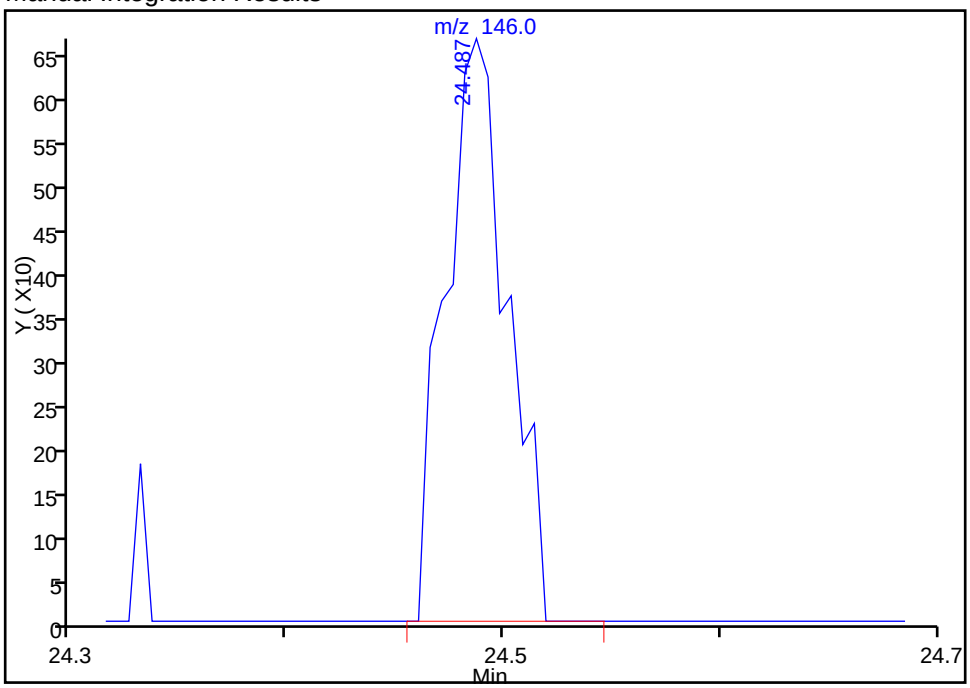
Processing Integration Results

RT: 24.49
Area: 1226
Amount: 0.013653
Amount Units: ppb v/v



Manual Integration Results

RT: 24.49
Area: 1326
Amount: 0.014767
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:09:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

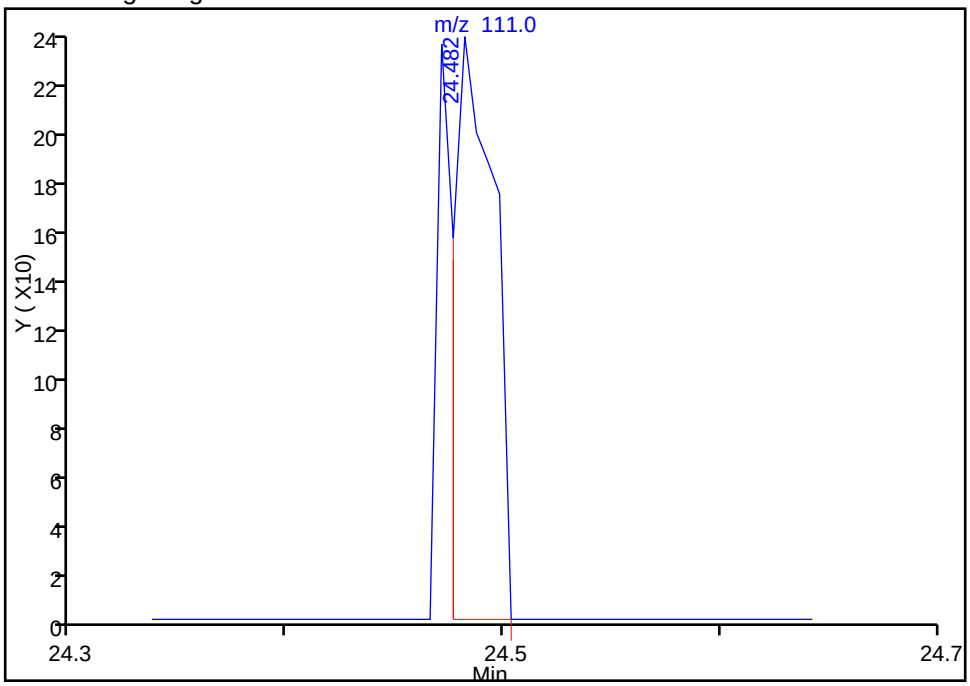
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

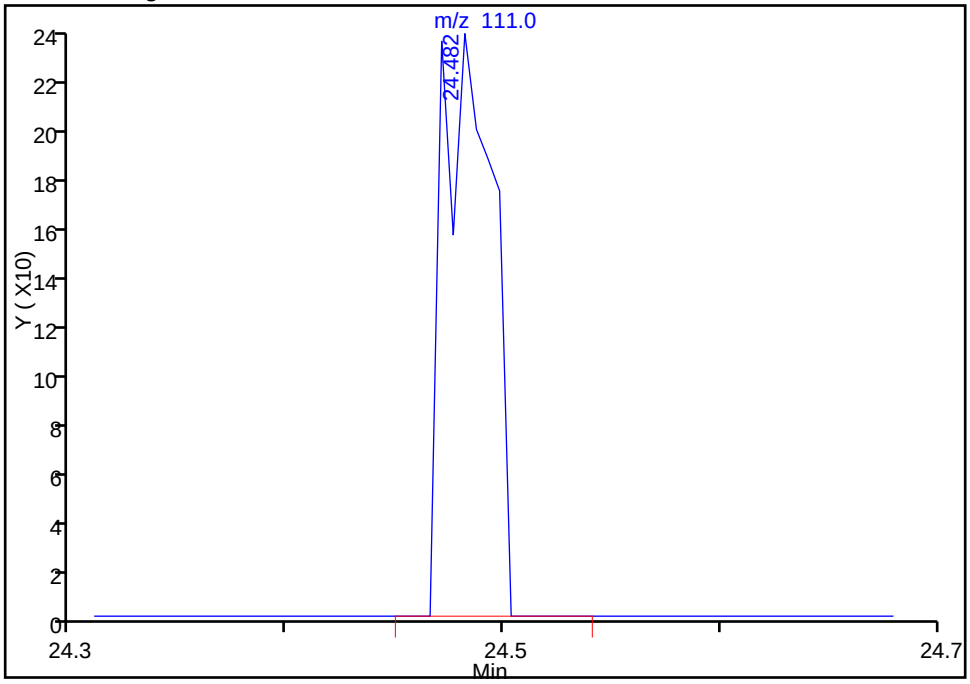
Processing Integration Results

RT: 24.48
Area: 305
Amount: 0.013653
Amount Units: ppb v/v



Manual Integration Results

RT: 24.48
Area: 380
Amount: 0.014767
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:09:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

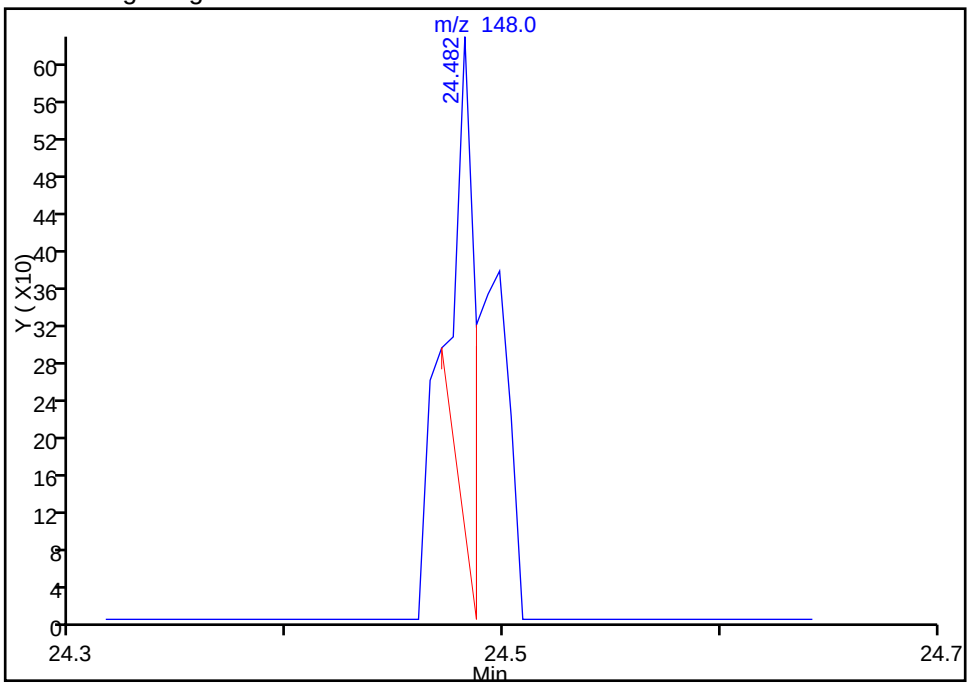
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_027.d				
Injection Date:	30-Sep-2015 08:51:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-12	Lab Sample ID:	200-29972-12		
Client ID:	FR-IA06-092315				
Operator ID:	pad	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

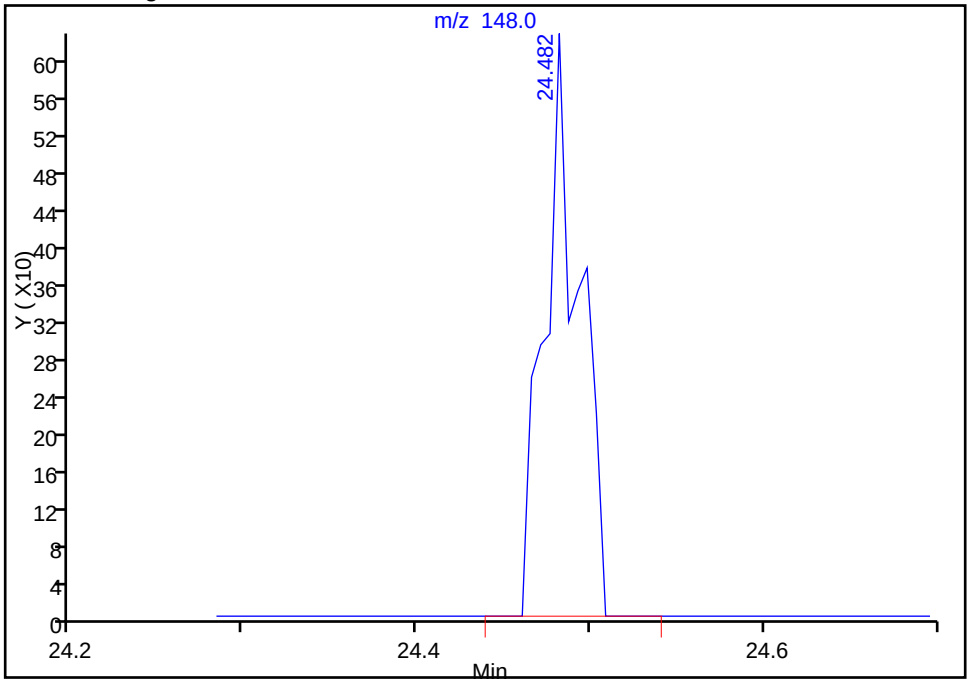
Processing Integration Results

RT: 24.48
Area: 308
Amount: 0.013653
Amount Units: ppb v/v



Manual Integration Results

RT: 24.48
Area: 882
Amount: 0.014767
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:09:34
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS07-092315 Lab Sample ID: 200-29972-13

Matrix: Air Lab File ID: 16087_22.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 40(mL) Date Analyzed: 10/06/2015 01:55

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.64	J	2.5	0.40
75-45-6	Freon 22	86.47	2.5	U	2.5	0.29
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.0	U	1.0	0.19
74-87-3	Chloromethane	50.49	2.5	U	2.5	0.47
106-97-8	n-Butane	58.12	2.5	U	2.5	0.39
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.16
106-99-0	1,3-Butadiene	54.09	1.0	U	1.0	0.45
74-83-9	Bromomethane	94.94	1.0	U	1.0	0.28
75-00-3	Chloroethane	64.52	2.5	U	2.5	0.43
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	137.37	92		1.0	0.19
76-13-1	Freon TF	187.38	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	96.94	1.0	U	1.0	0.18
67-64-1	Acetone	58.08	25	U	25	4.3
67-63-0	Isopropyl alcohol	60.10	25	U	25	4.9
75-15-0	Carbon disulfide	76.14	2.5	U	2.5	0.22
107-05-1	3-Chloropropene	76.53	2.5	U	2.5	0.34
75-09-2	Methylene Chloride	84.93	2.5	U	2.5	0.90
75-65-0	tert-Butyl alcohol	74.12	25	U	25	4.3
1634-04-4	Methyl tert-butyl ether	88.15	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	U	1.0	0.22
110-54-3	n-Hexane	86.17	1.0	U	1.0	0.27
75-34-3	1,1-Dichloroethane	98.96	1.0	U	1.0	0.13
78-93-3	Methyl Ethyl Ketone	72.11	2.5	U	2.5	0.26
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	U	1.0	0.18
540-59-0	1,2-Dichloroethene, Total	96.94	2.0	U	2.0	0.18
67-66-3	Chloroform	119.38	1.0	U	1.0	0.41
109-99-9	Tetrahydrofuran	72.11	25	U	25	7.0
71-55-6	1,1,1-Trichloroethane	133.41	8.8		1.0	0.23
110-82-7	Cyclohexane	84.16	1.0	U	1.0	0.20
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.16
540-84-1	2,2,4-Trimethylpentane	114.23	1.0	U	1.0	0.20
71-43-2	Benzene	78.11	1.0	U	1.0	0.21
107-06-2	1,2-Dichloroethane	98.96	1.0	U	1.0	0.21

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS07-092315 Lab Sample ID: 200-29972-13

Matrix: Air Lab File ID: 16087_22.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 40(mL) Date Analyzed: 10/06/2015 01:55

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.0	U	1.0	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	100.12	2.5	U	2.5	0.20
78-87-5	1,2-Dichloropropane	112.99	1.0	U	1.0	0.14
123-91-1	1,4-Dioxane	88.11	25	U	25	2.8
75-27-4	Bromodichloromethane	163.83	1.0	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	U	1.0	0.12
108-10-1	methyl isobutyl ketone	100.16	2.5	U	2.5	0.25
108-88-3	Toluene	92.14	1.0	U	1.0	0.47
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	U	1.0	0.17
79-00-5	1,1,2-Trichloroethane	133.41	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	165.83	0.12	J	1.0	0.12
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.5	U	2.5	0.29
124-48-1	Dibromochloromethane	208.29	1.0	U	1.0	0.22
106-93-4	1,2-Dibromoethane	187.87	1.0	U	1.0	0.20
108-90-7	Chlorobenzene	112.56	1.0	U	1.0	0.25
100-41-4	Ethylbenzene	106.17	1.0	U	1.0	0.17
179601-23-1	m,p-Xylene	106.17	2.5	U	2.5	0.36
95-47-6	Xylene, o-	106.17	1.0	U	1.0	0.19
1330-20-7	Xylene (total)	106.17	3.5	U	3.5	0.19
100-42-5	Styrene	104.15	1.0	U	1.0	0.22
75-25-2	Bromoform	252.75	1.0	U	1.0	0.28
98-82-8	Cumene	120.19	1.0	U	1.0	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	U	1.0	0.22
103-65-1	n-Propylbenzene	120.19	1.0	U	1.0	0.22
622-96-8	4-Ethyltoluene	120.20	1.0	U	1.0	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.0	U	1.0	0.22
95-63-6	1,2,4-Trimethylbenzene	120.20	1.0	U	1.0	0.22
135-98-8	sec-Butylbenzene	134.22	1.0	U	1.0	0.22
99-87-6	4-Isopropyltoluene	134.22	1.0	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	147.00	1.0	U	1.0	0.28
106-46-7	1,4-Dichlorobenzene	147.00	1.0	U	1.0	0.29

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS07-092315 Lab Sample ID: 200-29972-13

Matrix: Air Lab File ID: 16087_22.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 40(mL) Date Analyzed: 10/06/2015 01:55

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.0	U	1.0	0.24
95-50-1	1,2-Dichlorobenzene	147.00	1.0	U	1.0	0.28
120-82-1	1,2,4-Trichlorobenzene	181.45	2.5	U	2.5	0.34
87-68-3	Hexachlorobutadiene	260.76	1.0	U	1.0	0.41
91-20-3	Naphthalene	128.17	2.5	U	2.5	0.29

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS07-092315 | Lab Sample ID: 200-29972-13

Matrix: Air | Lab File ID: 16087_22.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 40(mL) | Date Analyzed: 10/06/2015 01:55

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.2	J	12	2.0
75-45-6	Freon 22	86.47	8.8	U	8.8	1.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	7.0	U	7.0	1.3
74-87-3	Chloromethane	50.49	5.2	U	5.2	0.96
106-97-8	n-Butane	58.12	5.9	U	5.9	0.93
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.41
106-99-0	1,3-Butadiene	54.09	2.2	U	2.2	0.98
74-83-9	Bromomethane	94.94	3.9	U	3.9	1.1
75-00-3	Chloroethane	64.52	6.6	U	6.6	1.1
593-60-2	Bromoethene(Vinyl Bromide)	106.96	4.4	U	4.4	0.96
75-69-4	Trichlorofluoromethane	137.37	520		5.6	1.1
76-13-1	Freon TF	187.38	7.7	U	7.7	2.9
75-35-4	1,1-Dichloroethene	96.94	4.0	U	4.0	0.71
67-64-1	Acetone	58.08	59	U	59	10
67-63-0	Isopropyl alcohol	60.10	61	U	61	12
75-15-0	Carbon disulfide	76.14	7.8	U	7.8	0.67
107-05-1	3-Chloropropene	76.53	7.8	U	7.8	1.1
75-09-2	Methylene Chloride	84.93	8.7	U	8.7	3.1
75-65-0	tert-Butyl alcohol	74.12	76	U	76	13
1634-04-4	Methyl tert-butyl ether	88.15	3.6	U	3.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	4.0	U	4.0	0.85
110-54-3	n-Hexane	86.17	3.5	U	3.5	0.95
75-34-3	1,1-Dichloroethane	98.96	4.0	U	4.0	0.51
78-93-3	Methyl Ethyl Ketone	72.11	7.4	U	7.4	0.77
156-59-2	cis-1,2-Dichloroethene	96.94	4.0	U	4.0	0.69
540-59-0	1,2-Dichloroethene, Total	96.94	7.9	U	7.9	0.69
67-66-3	Chloroform	119.38	4.9	U	4.9	2.0
109-99-9	Tetrahydrofuran	72.11	74	U	74	21
71-55-6	1,1,1-Trichloroethane	133.41	48		5.5	1.3
110-82-7	Cyclohexane	84.16	3.4	U	3.4	0.67
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	1.0
540-84-1	2,2,4-Trimethylpentane	114.23	4.7	U	4.7	0.91
71-43-2	Benzene	78.11	3.2	U	3.2	0.67
107-06-2	1,2-Dichloroethane	98.96	4.0	U	4.0	0.83

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS07-092315 Lab Sample ID: 200-29972-13

Matrix: Air Lab File ID: 16087_22.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 40(mL) Date Analyzed: 10/06/2015 01:55

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	4.1	U	4.1	0.82
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.0
80-62-6	Methyl methacrylate	100.12	10	U	10	0.82
78-87-5	1,2-Dichloropropane	112.99	4.6	U	4.6	0.62
123-91-1	1,4-Dioxane	88.11	90	U	90	10
75-27-4	Bromodichloromethane	163.83	6.7	U	6.7	1.0
10061-01-5	cis-1,3-Dichloropropene	110.97	4.5	U	4.5	0.52
108-10-1	methyl isobutyl ketone	100.16	10	U	10	1.0
108-88-3	Toluene	92.14	3.8	U	3.8	1.8
10061-02-6	trans-1,3-Dichloropropene	110.97	4.5	U	4.5	0.77
79-00-5	1,1,2-Trichloroethane	133.41	5.5	U	5.5	1.1
127-18-4	Tetrachloroethene	165.83	0.80	J	6.8	0.78
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	10	U	10	1.2
124-48-1	Dibromochloromethane	208.29	8.5	U	8.5	1.9
106-93-4	1,2-Dibromoethane	187.87	7.7	U	7.7	1.5
108-90-7	Chlorobenzene	112.56	4.6	U	4.6	1.1
100-41-4	Ethylbenzene	106.17	4.3	U	4.3	0.72
179601-23-1	m,p-Xylene	106.17	11	U	11	1.5
95-47-6	Xylene, o-	106.17	4.3	U	4.3	0.80
1330-20-7	Xylene (total)	106.17	15	U	15	0.80
100-42-5	Styrene	104.15	4.3	U	4.3	0.92
75-25-2	Bromoform	252.75	10	U	10	2.9
98-82-8	Cumene	120.19	4.9	U	4.9	0.74
79-34-5	1,1,2,2-Tetrachloroethane	167.85	6.9	U	6.9	1.5
103-65-1	n-Propylbenzene	120.19	4.9	U	4.9	1.1
622-96-8	4-Ethyltoluene	120.20	4.9	U	4.9	1.1
108-67-8	1,3,5-Trimethylbenzene	120.20	4.9	U	4.9	0.96
95-49-8	2-Chlorotoluene	126.59	5.2	U	5.2	0.85
98-06-6	tert-Butylbenzene	134.22	5.5	U	5.5	1.2
95-63-6	1,2,4-Trimethylbenzene	120.20	4.9	U	4.9	1.1
135-98-8	sec-Butylbenzene	134.22	5.5	U	5.5	1.2
99-87-6	4-Isopropyltoluene	134.22	5.5	U	5.5	1.0
541-73-1	1,3-Dichlorobenzene	147.00	6.0	U	6.0	1.7
106-46-7	1,4-Dichlorobenzene	147.00	6.0	U	6.0	1.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS07-092315 Lab Sample ID: 200-29972-13

Matrix: Air Lab File ID: 16087_22.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 40(mL) Date Analyzed: 10/06/2015 01:55

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	5.2	U	5.2	1.4
104-51-8	n-Butylbenzene	134.22	5.5	U	5.5	1.3
95-50-1	1,2-Dichlorobenzene	147.00	6.0	U	6.0	1.7
120-82-1	1,2,4-Trichlorobenzene	181.45	19	U	19	2.5
87-68-3	Hexachlorobutadiene	260.76	11	U	11	4.4
91-20-3	Naphthalene	128.17	13	U	13	1.5

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_22.D
Lims ID: 200-29972-A-13 Lab Sample ID: 200-29972-13
Client ID: FR-SS07-092315
Sample Type: Client
Inject. Date: 06-Oct-2015 01:55:30 ALS Bottle#: 3 Worklist Smp#: 22
Purge Vol: 200.000 mL Dil. Factor: 5.0000
Sample Info: 200-0016087-022
Misc. Info.: 29972-13
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 11:44:58 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 11:44:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.167	3.172	-0.005	99	3474	0.1280	
3 Chlorodifluoromethane	51	3.226	3.226	0.000	92	463	0.0353	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50		3.579				ND	
6 Butane	43		3.771				ND	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.248	5.259	-0.011	98	552059	18.4	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43	6.666	6.612	0.054	88	6187	0.5067	
22 Carbon disulfide	76	6.735	6.746	-0.011	94	900	0.0316	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.404	7.414	-0.010	80	1405	0.1366	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57		8.212				ND	
33 1,1-Dichloroethane	63		8.709				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72		9.881				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.271	10.282	-0.011	73	139516	10.0	
39 Tetrahydrofuran	42		10.298				ND	
41 Chloroform	83	10.394	10.410	-0.016	50	1138	0.0439	
42 Cyclohexane	84		10.651				ND	
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	96	49132	1.76	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117		10.929				ND	
	45 Isooctane	57		11.368				ND	
	46 Benzene	78		11.411				ND	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43		11.753				ND	
*	50 1,4-Difluorobenzene	114	12.251	12.261	-0.010	92	764238	10.0	
	52 Trichloroethene	95		12.743				ND	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83		13.904				ND	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.193				ND	
	62 Toluene	92	15.466	15.476	-0.010	86	3258	0.0836	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.573	16.579	-0.006	19	920	0.0237	
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.440	18.446	-0.006	81	765709	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91		18.649				ND	
	77 m-Xylene & p-Xylene	106	18.895	18.906	-0.011	83	1258	0.0355	
	78 o-Xylene	106	19.719	19.719	0.000	1	347	0.0099	
	79 Styrene	104	19.751	19.767	-0.016	1	355	0.006493	
S	80 Xylenes, Total	106				0		0.0454	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105		20.355				ND	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91		21.035				ND	
	89 4-Ethyltoluene	105		21.217				ND	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105		21.318				ND	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105		21.880				ND	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119		22.297				ND	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91		22.886				ND	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128		26.197				ND	

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

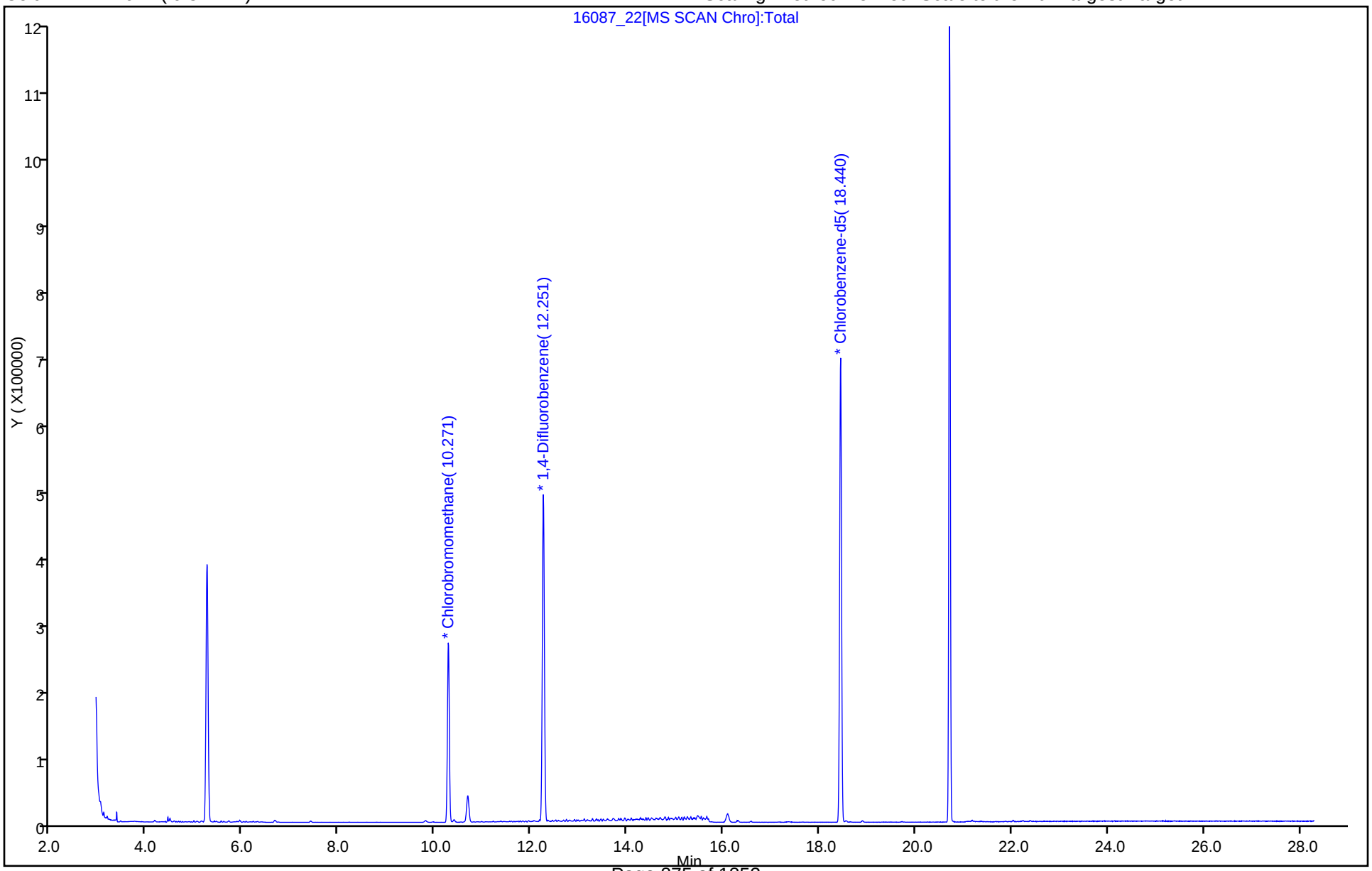
Report Date: 06-Oct-2015 11:44:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_22.D

Injection Date:	06-Oct-2015 01:55:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-13	Lab Sample ID:	200-29972-13	Worklist Smp#:	22
Client ID:	FR-SS07-092315				
Purge Vol:	200.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	3
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



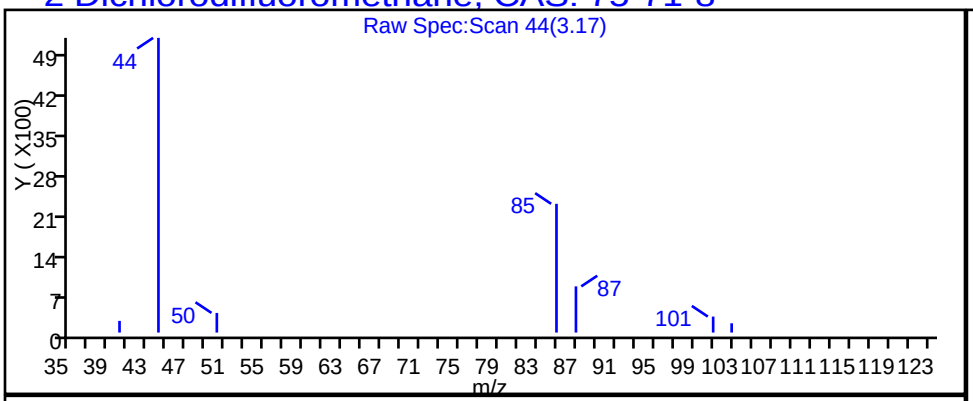
Report Date: 06-Oct-2015 11:44:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

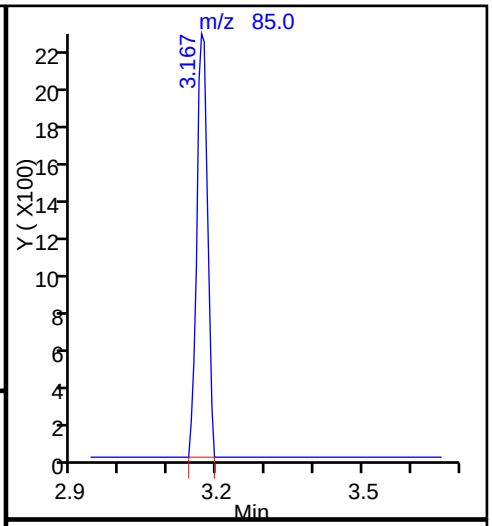
TestAmerica Burlington

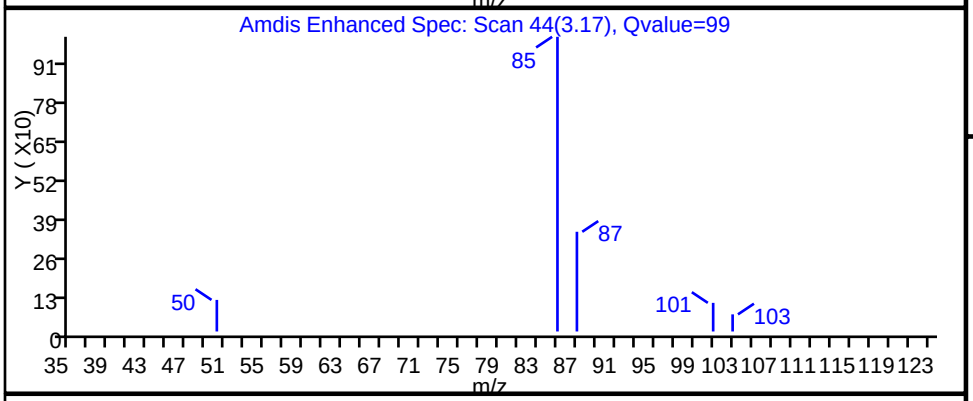
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_22.D

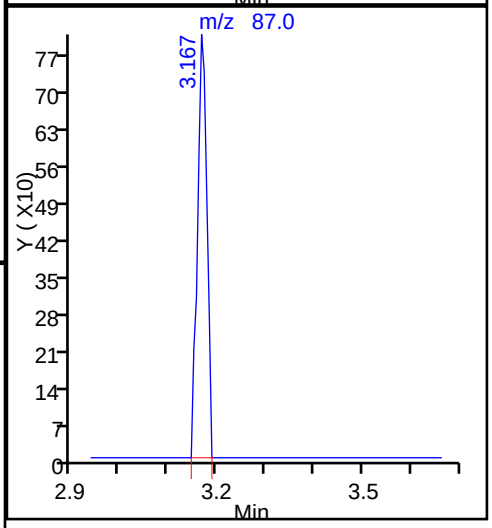
Injection Date:	06-Oct-2015 01:55:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-13	Lab Sample ID:	200-29972-13		
Client ID:	FR-SS07-092315				
Operator ID:	wrd	ALS Bottle#:	3	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

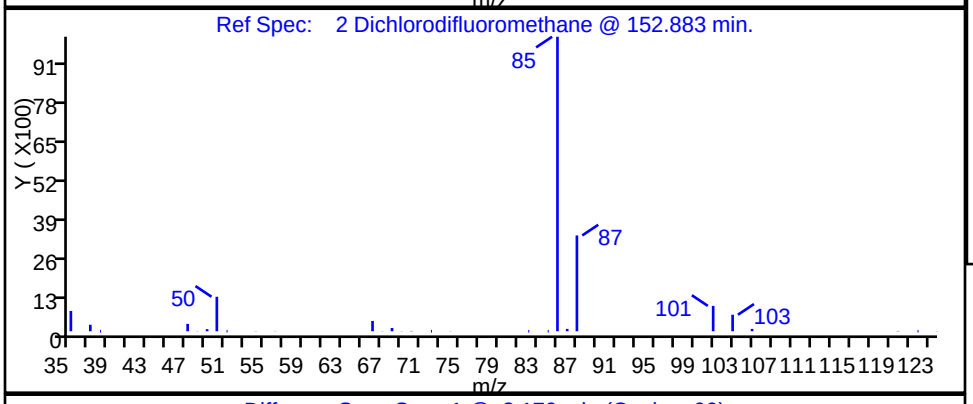
2 Dichlorodifluoromethane, CAS: 75-71-8

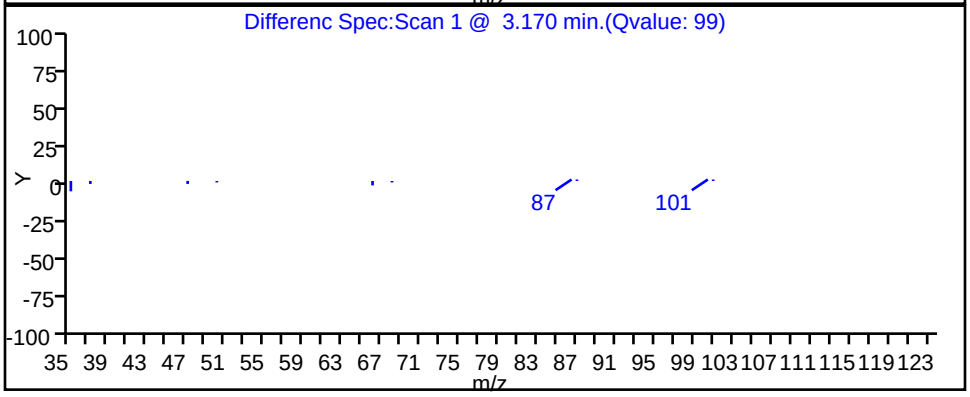












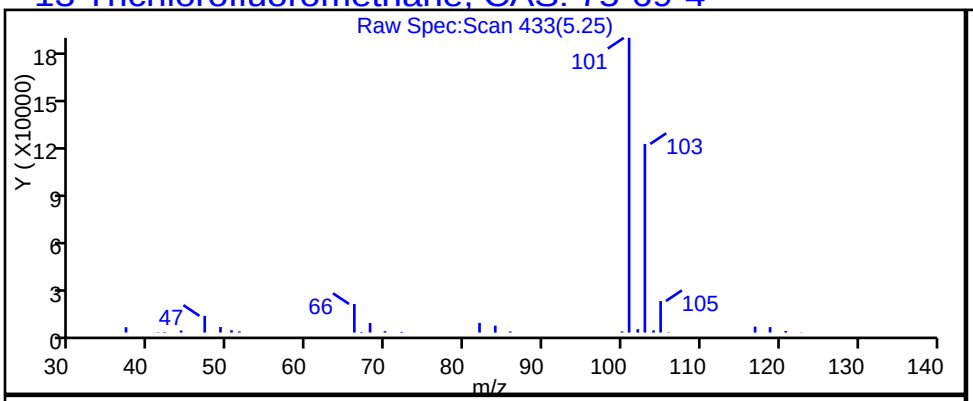
Report Date: 06-Oct-2015 11:44:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

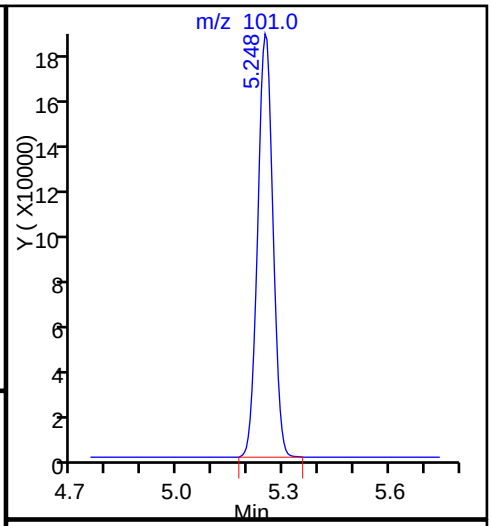
TestAmerica Burlington

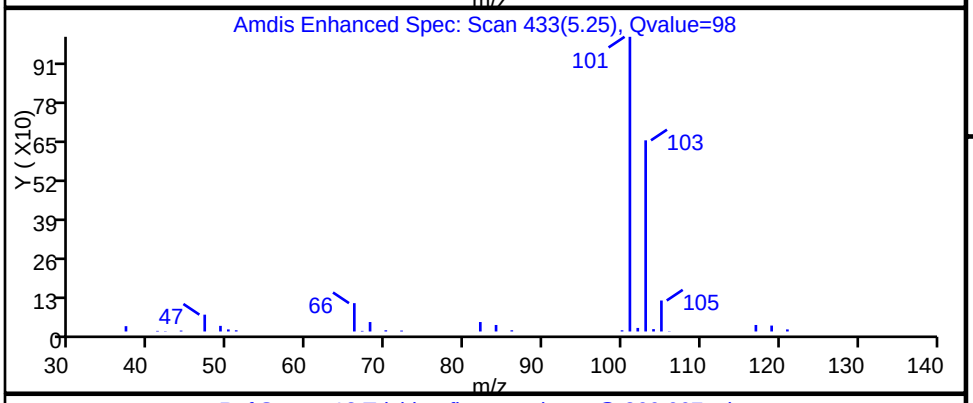
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_22.D

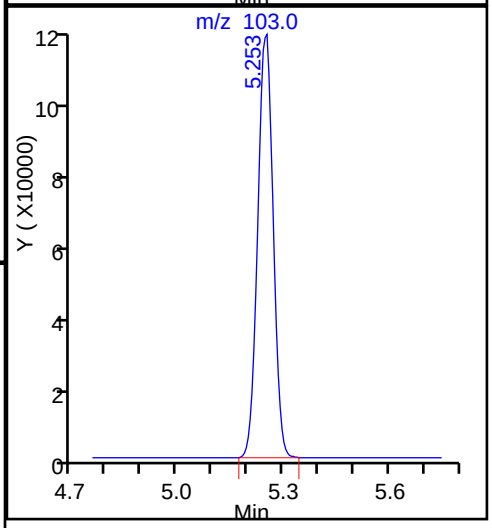
Injection Date:	06-Oct-2015 01:55:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-13	Lab Sample ID:	200-29972-13		
Client ID:	FR-SS07-092315				
Operator ID:	wrd	ALS Bottle#:	3	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

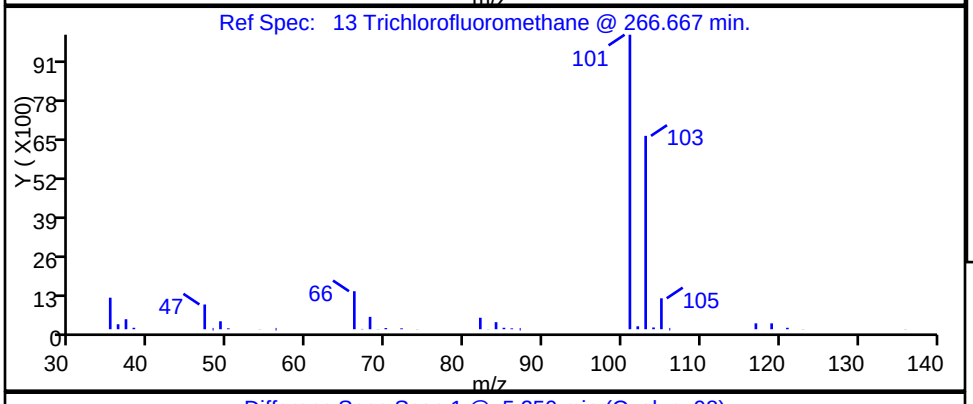
13 Trichlorofluoromethane, CAS: 75-69-4

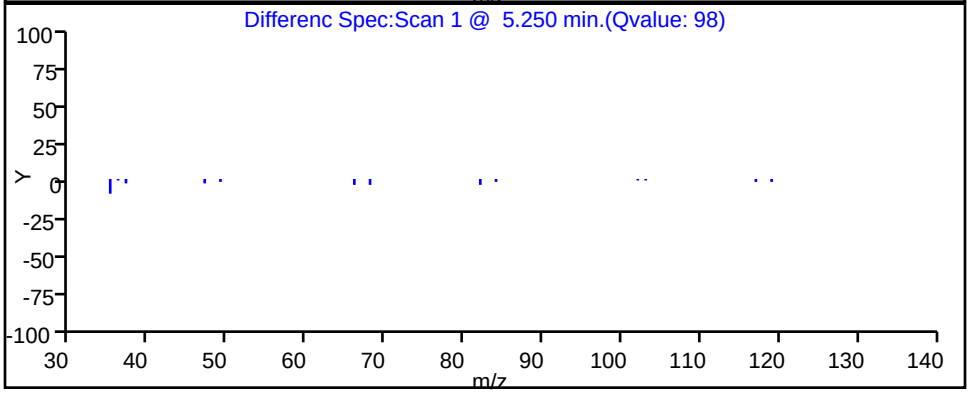










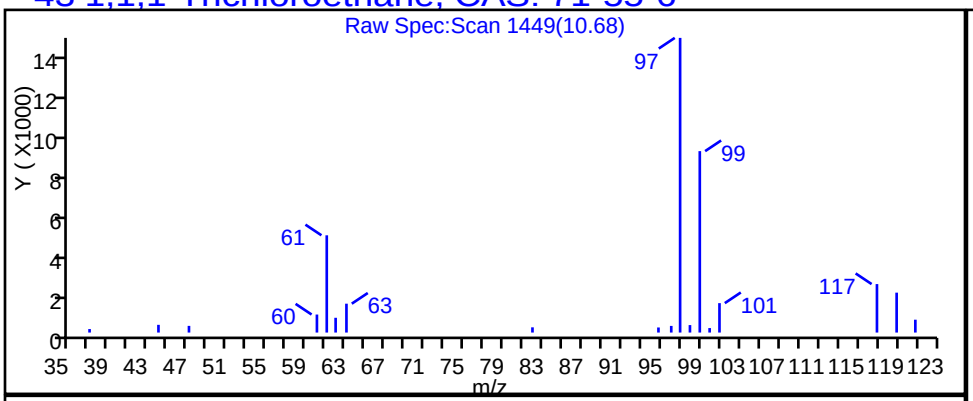


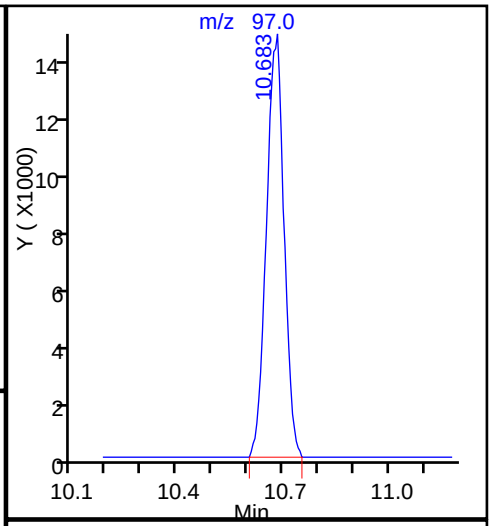
Report Date: 06-Oct-2015 11:45:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

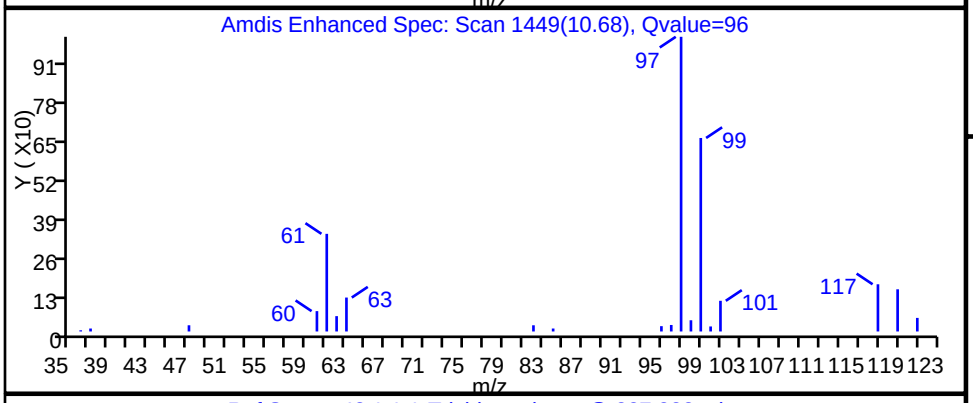
TestAmerica Burlington

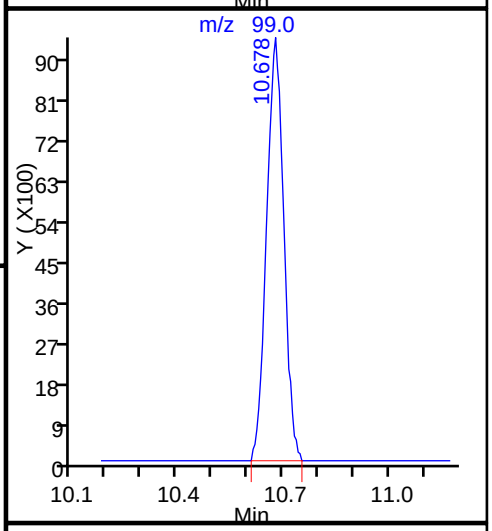
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_22.D				
Injection Date:	06-Oct-2015 01:55:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-13	Lab Sample ID:	200-29972-13		
Client ID:	FR-SS07-092315				
Operator ID:	wrd	ALS Bottle#:	3	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

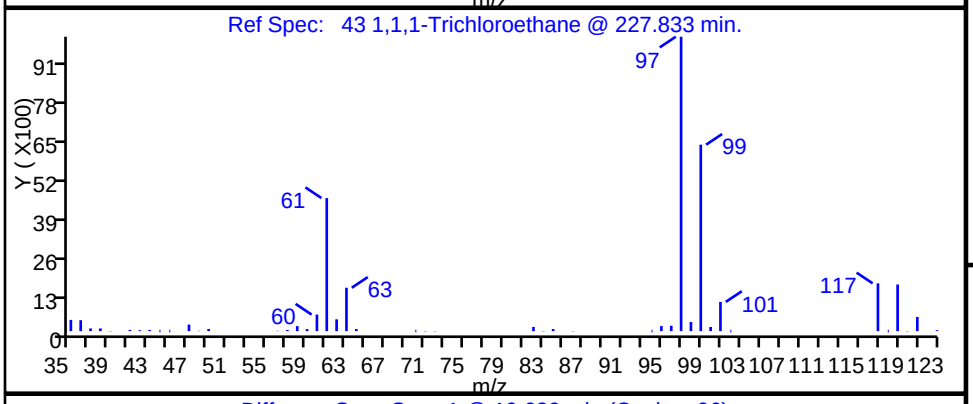
43 1,1,1-Trichloroethane, CAS: 71-55-6

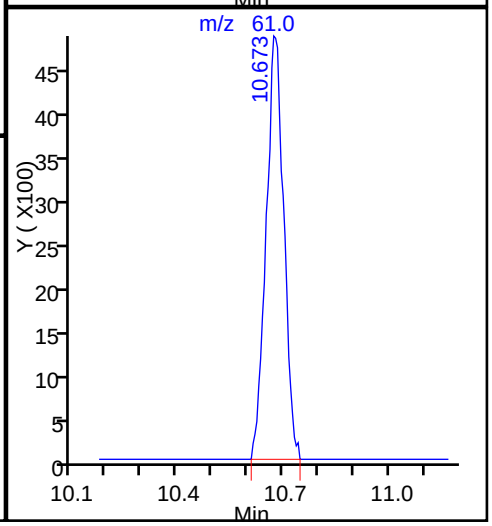


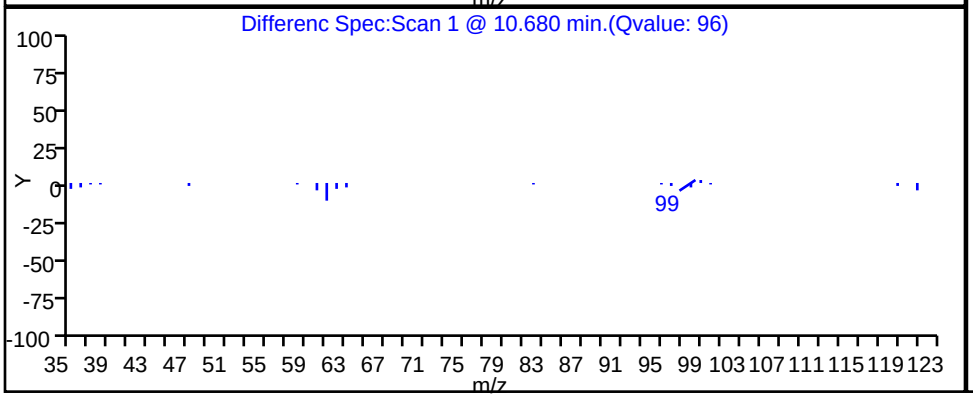












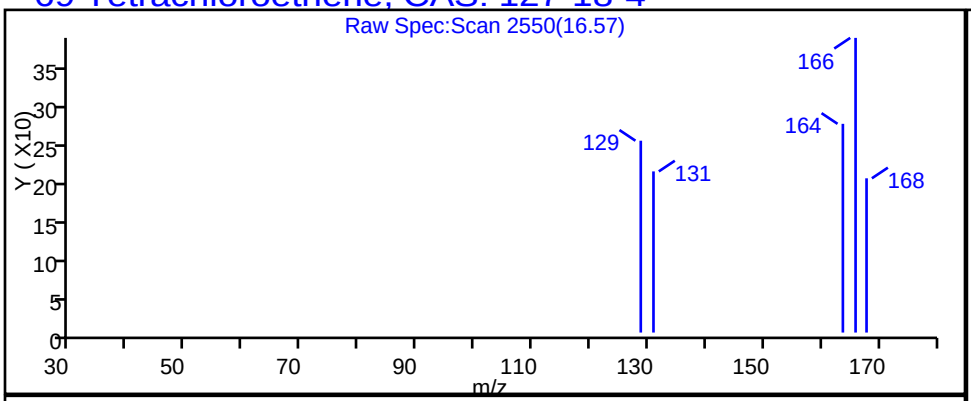
Report Date: 06-Oct-2015 11:45:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

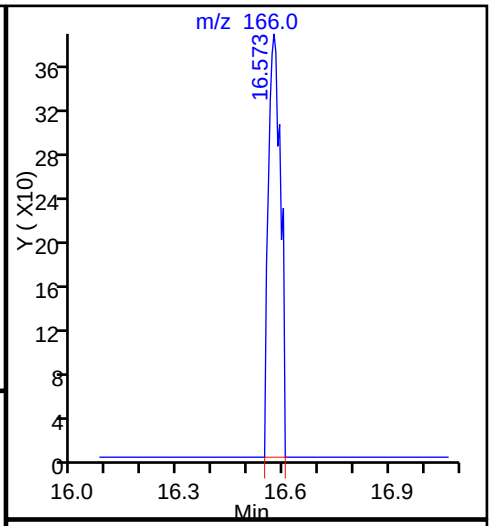
TestAmerica Burlington

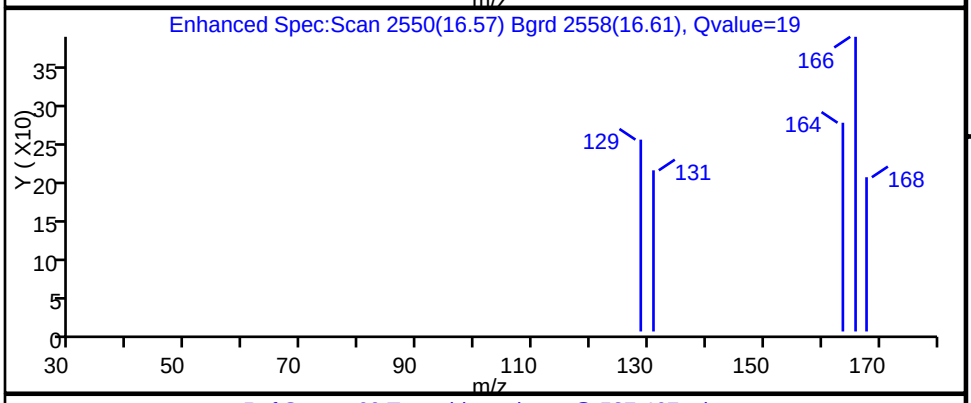
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_22.D

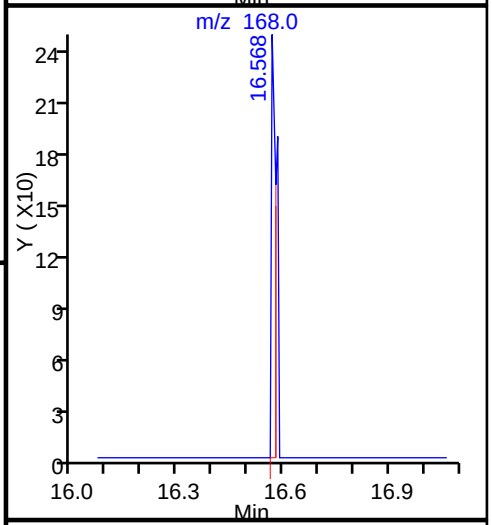
Injection Date:	06-Oct-2015 01:55:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-13	Lab Sample ID:	200-29972-13		
Client ID:	FR-SS07-092315				
Operator ID:	wrd	ALS Bottle#:	3	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	5.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

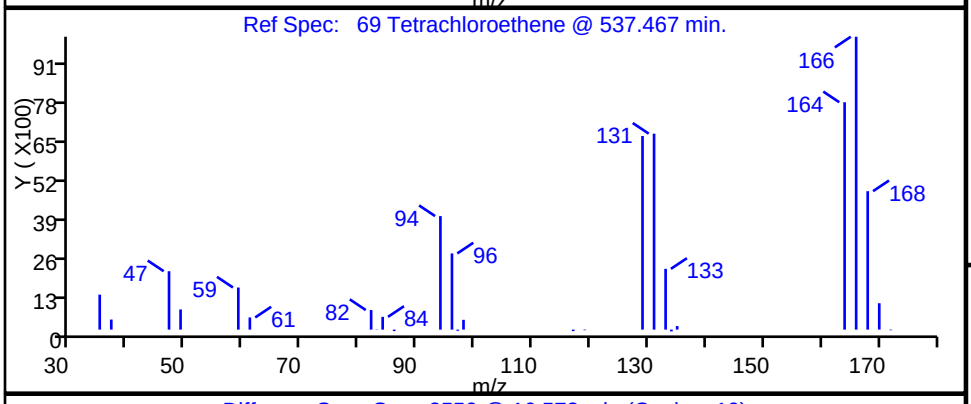
69 Tetrachloroethene, CAS: 127-18-4

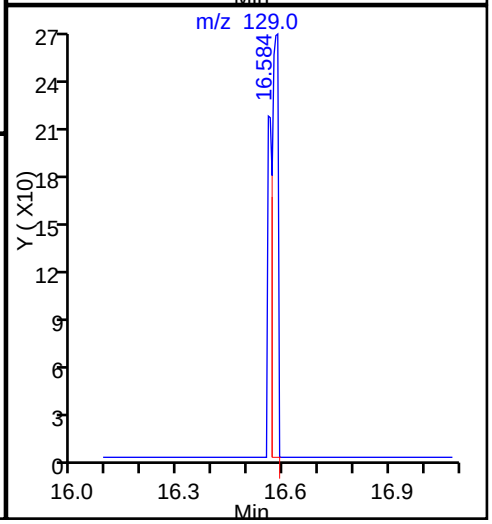


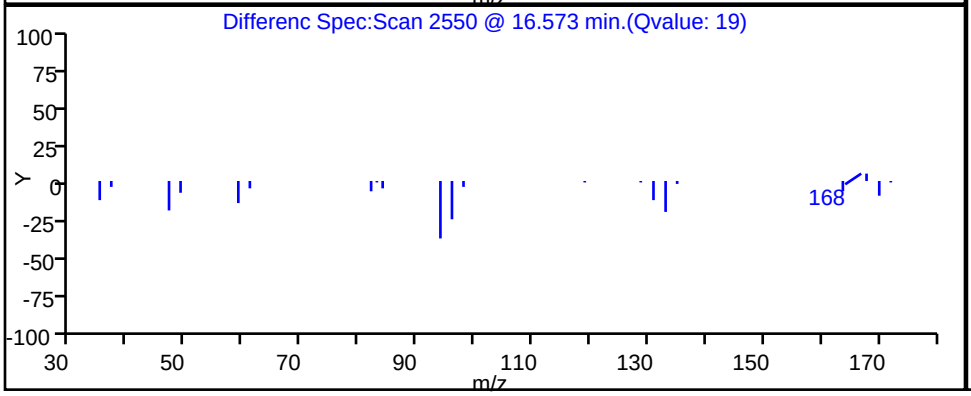












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 | Lab Sample ID: 200-29972-14

Matrix: Air | Lab File ID: 16024_008.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 16:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.57		0.50	0.080
75-45-6	Freon 22	86.47	0.55		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.50		0.50	0.093
106-97-8	n-Butane	58.12	3.9		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.089	J	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	*Trichlorofluoromethane*	*137.37*	*40*	*E*	*0.20*	*0.038*
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.53		0.20	0.036
67-64-1	Acetone	58.08	6.6		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	3.7	J	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.18	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.23	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.45		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.15	J	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.79		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.40		0.20	0.046
110-82-7	Cyclohexane	84.16	0.14	J	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.085		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.21		0.20	0.039
71-43-2	Benzene	78.11	0.43		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.53		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 | Lab Sample ID: 200-29972-14

Matrix: Air | Lab File ID: 16024_008.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 16:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.14	J	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	1.0		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.051	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.12	J	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.14	J	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.49	J	0.50	0.071
95-47-6	Xylene, o-	106.17	0.18	J	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.67	J	0.70	0.037
100-42-5	Styrene	104.15	0.13	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.050	J	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.063	J	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.060	J	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 Lab Sample ID: 200-29972-14

Matrix: Air Lab File ID: 16024_008.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 16:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.12	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 | Lab Sample ID: 200-29972-14

Matrix: Air | Lab File ID: 16024_008.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 16:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.8		2.5	0.40
75-45-6	Freon 22	86.47	1.9		1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.0		1.0	0.19
106-97-8	n-Butane	58.12	9.3		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	0.23	J	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	*Trichlorofluoromethane*	*137.37*	*230*	*E*	*1.1*	*0.21*
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	2.1		0.79	0.14
67-64-1	Acetone	58.08	16		12	2.0
67-63-0	Isopropyl alcohol	60.10	9.1	J	12	2.4
75-15-0	Carbon disulfide	76.14	0.58	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	0.81	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	1.6		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.62	J	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	2.3		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	2.2		1.1	0.25
110-82-7	Cyclohexane	84.16	0.48	J	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.53		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.97		0.93	0.18
71-43-2	Benzene	78.11	1.4		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	2.2		0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 Lab Sample ID: 200-29972-14

Matrix: Air Lab File ID: 16024_008.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 16:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.59	J	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	3.8		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.35	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	J	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.63	J	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.1	J	2.2	0.31
95-47-6	Xylene, o-	106.17	0.79	J	0.87	0.16
1330-20-7	Xylene (total)	106.17	2.9	J	3.0	0.16
100-42-5	Styrene	104.15	0.54	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.25	J	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.77	J	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	0.35	J	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	0.36	J	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 Lab Sample ID: 200-29972-14

Matrix: Air Lab File ID: 16024_008.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 16:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	0.66	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d
Lims ID: 200-29972-A-14 Lab Sample ID: 200-29972-14
Client ID: FR-IA07-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 16:53:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016024-008
Misc. Info.: 29972-14
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:09:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.431	-0.011	99	31448	0.5730	
3 Chlorodifluoromethane	51	4.490	4.501	-0.011	95	12165	0.5498	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50	5.004	5.009	-0.005	98	5348	0.4989	
6 Butane	43	5.282	5.292	-0.010	96	61285	3.92	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64	6.662	6.678	-0.016	1	742	0.0888	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.299	7.299	0.000	98	2508083	40.3	E
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	94	9454	0.5287	
22 Acetone	43	8.946	8.941	0.005	97	127014	6.57	
23 Carbon disulfide	76	9.166	9.171	-0.005	95	7951	0.1847	
24 Isopropyl alcohol	45	9.224	9.219	0.005	97	56868	3.69	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.920	9.931	-0.011	54	3302	0.2328	M
28 2-Methyl-2-propanol	59	10.129	10.113	0.016	91	3788	0.1390	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57	10.856	10.856	0.000	87	8484	0.4510	
34 1,1-Dichloroethane	63	11.429	11.429	0.000	96	4228	0.1522	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.654	0.005	97	7042	0.7875	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	69	172829	10.0	
42 Chloroform	83	13.210	13.215	-0.005	83	2070	0.0486	M
43 Cyclohexane	84	13.520	13.510	0.010	53	3247	0.1395	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	93	19896	0.3988	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.788	13.782	0.006	92	4656	0.0848	
46 Isooctane	57	14.189	14.184	0.005	95	13056	0.2070	
47 Benzene	78	14.248	14.253	-0.005	94	23545	0.4327	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	98	13887	0.5317	
49 n-Heptane	43	14.531	14.531	0.000	66	2845	0.1448	M
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	803804	10.0	
53 Trichloroethene	95	15.468	15.478	-0.010	81	940	0.0337	M
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88	16.201	16.190	0.011	74	863	0.0905	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.624				ND	
65 Toluene	92	17.961	17.955	0.006	92	45032	1.00	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.865				ND	
68 Tetrachloroethene	166	18.982	18.988	-0.006	93	2756	0.0510	
69 2-Hexanone	43	19.271	19.261	0.010	93	3674	0.1224	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.6677	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	776126	10.0	
75 Chlorobenzene	112	20.791	20.785	0.006	76	2317	0.0320	
76 Ethylbenzene	91	20.898	20.898	0.000	97	14550	0.1449	
78 m-Xylene & p-Xylene	106	21.101	21.106	-0.005	0	19733	0.4865	
79 o-Xylene	106	21.802	21.796	0.006	98	7246	0.1812	
80 Styrene	104	21.834	21.839	-0.005	93	7996	0.1276	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.342	22.347	-0.005	89	3470	0.0283	
84 1,1,2,2-Tetrachloroethane	83	22.893	22.898	-0.005	79	1510	0.0244	
85 N-Propylbenzene	91	22.973	22.973	0.000	98	4878	0.0331	
88 4-Ethyltoluene	105	23.144	23.139	0.005	98	5194	0.0383	
89 2-Chlorotoluene	91		23.177				ND	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	92	5894	0.0503	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	95	18135	0.1563	
94 sec-Butylbenzene	105	24.054	24.059	-0.005	95	2165	0.0133	
95 4-Isopropyltoluene	119	24.268	24.262	0.006	96	9040	0.0631	
96 1,3-Dichlorobenzene	146	24.327	24.332	-0.005	89	1390	0.0145	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	94	5655	0.0596	
98 Benzyl chloride	91		24.707				ND	
100 n-Butylbenzene	91		24.921				ND	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	81	1449	0.0156	
103 1,2,4-Trichlorobenzene	180	28.136	28.130	0.006	91	2697	0.0348	
104 Hexachlorobutadiene	225	28.339	28.344	-0.005	90	2413	0.0329	
105 Naphthalene	128	28.772	28.767	0.005	98	18340	0.1250	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

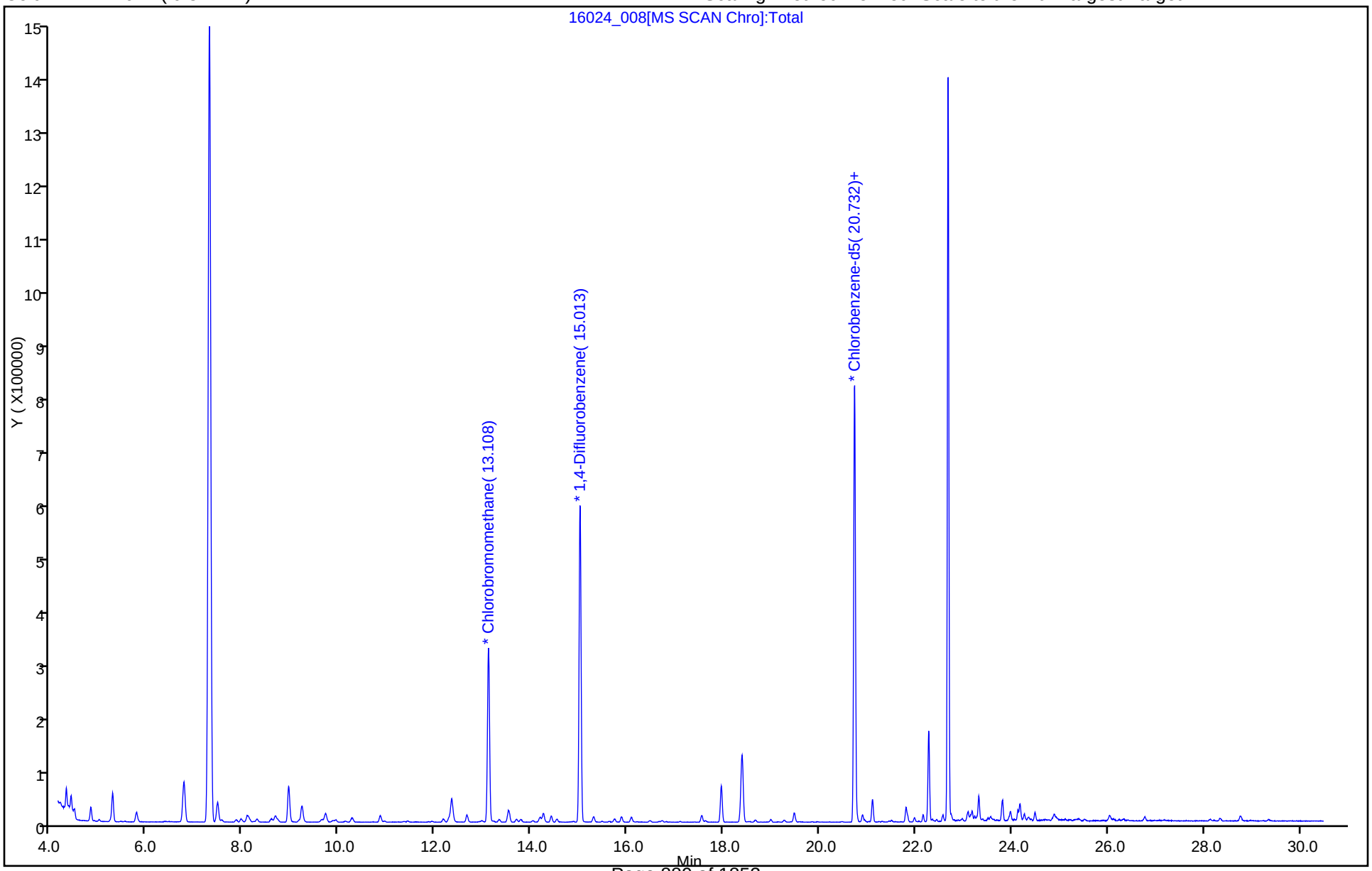
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14	Worklist Smp#:	8
Client ID:	FR-IA07-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



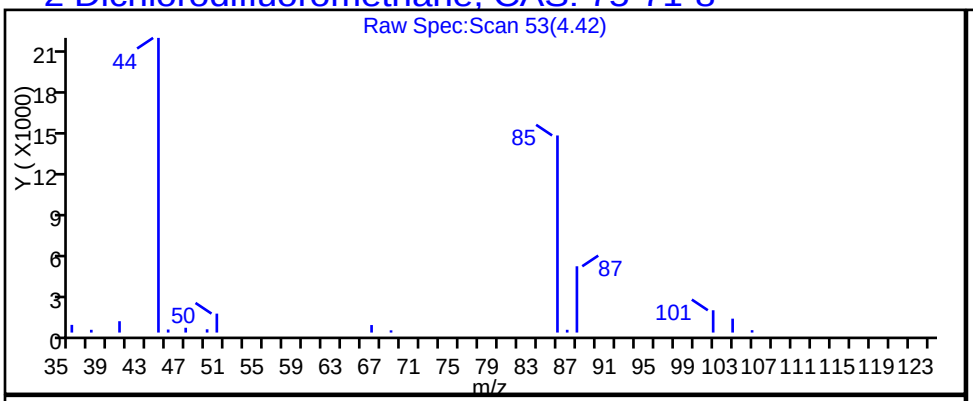
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

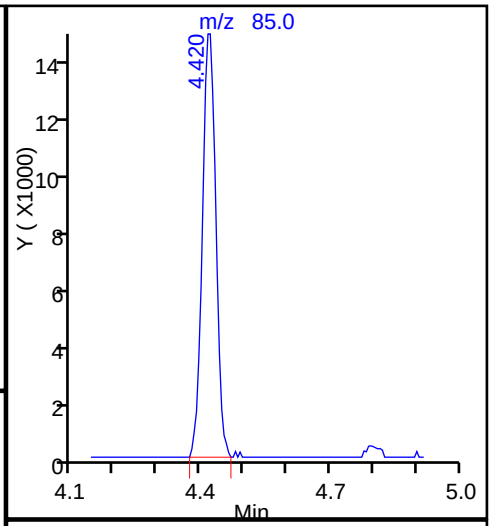
TestAmerica Burlington

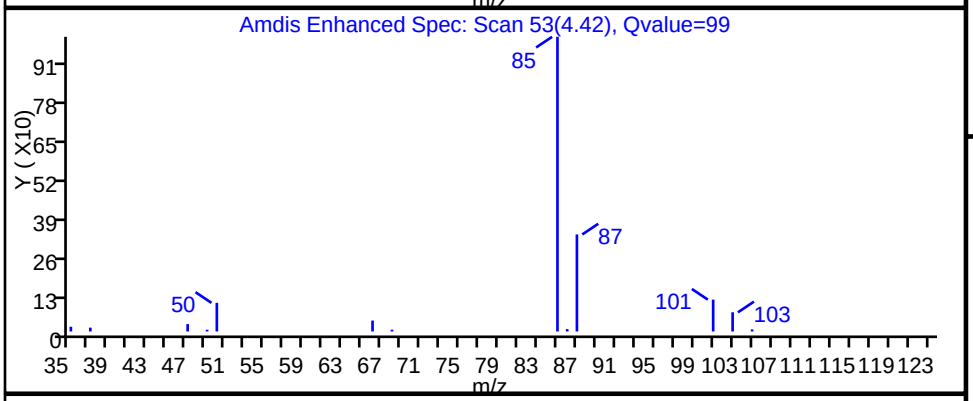
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

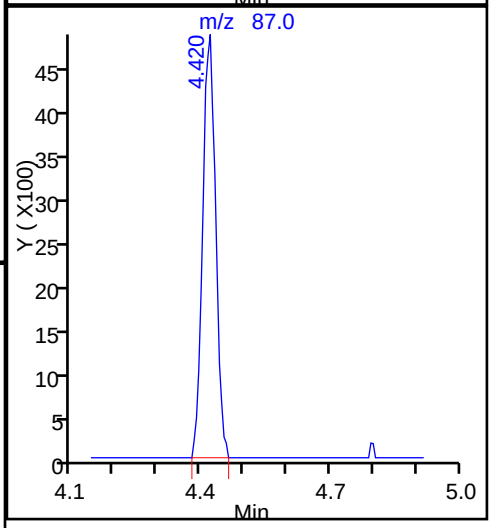
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

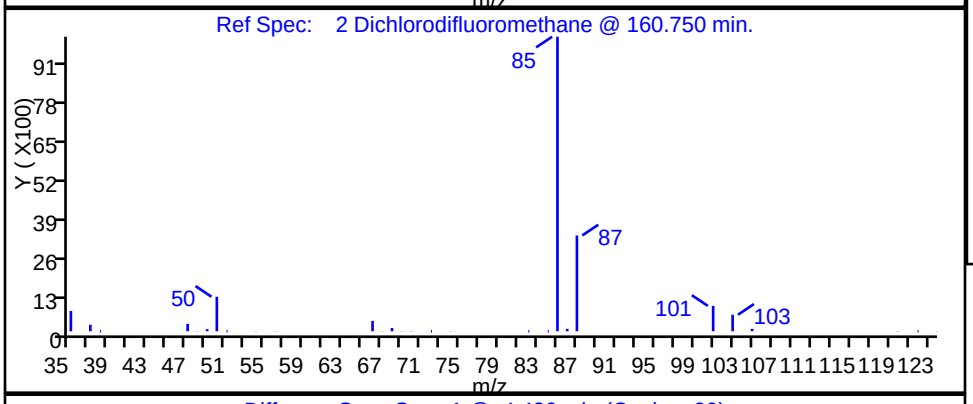
2 Dichlorodifluoromethane, CAS: 75-71-8

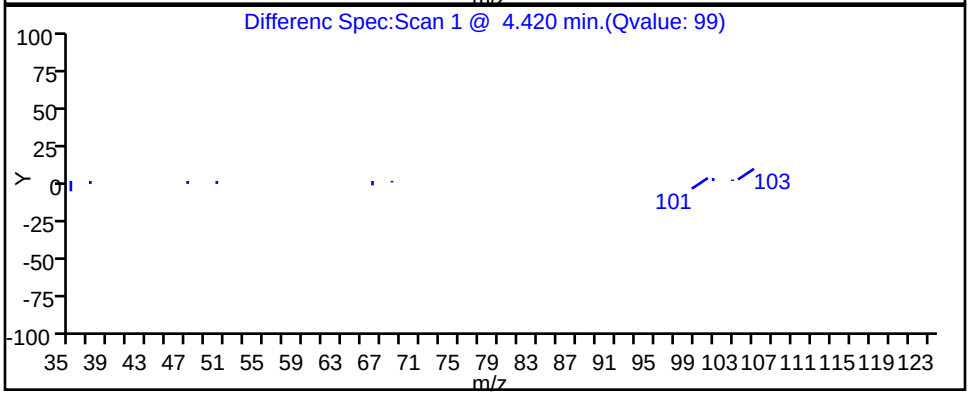












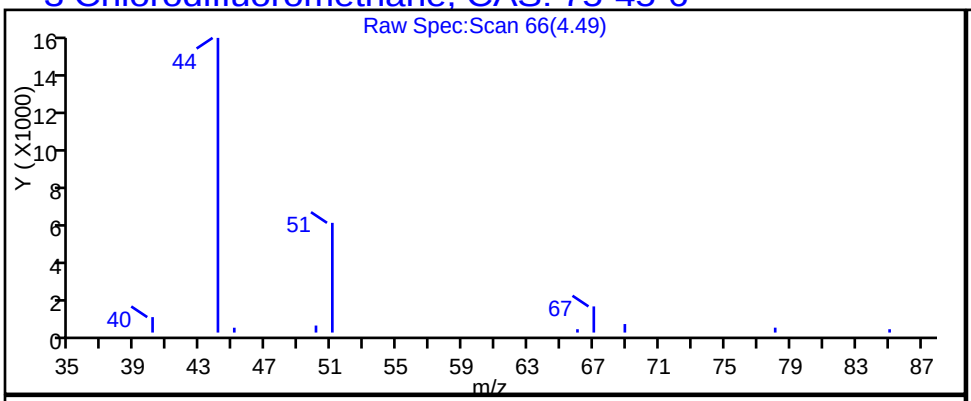
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

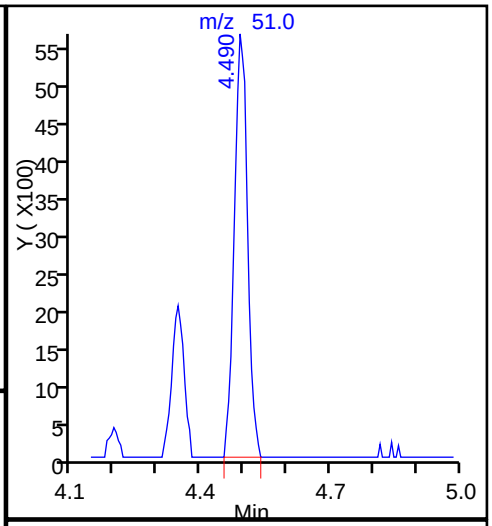
TestAmerica Burlington

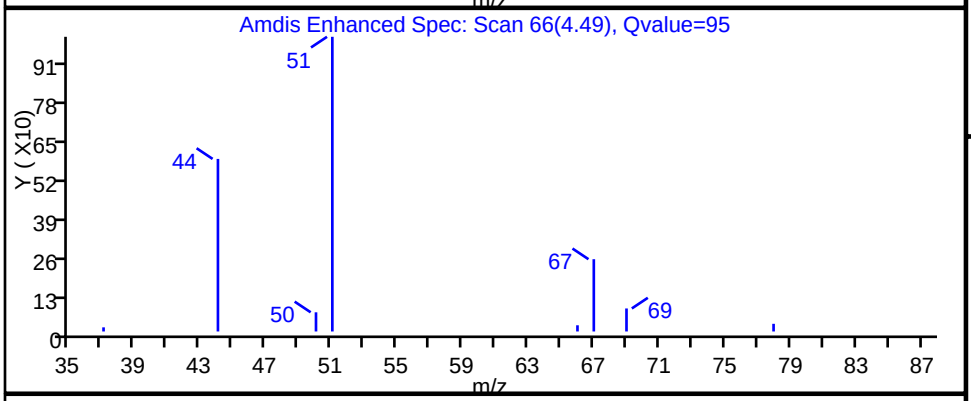
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

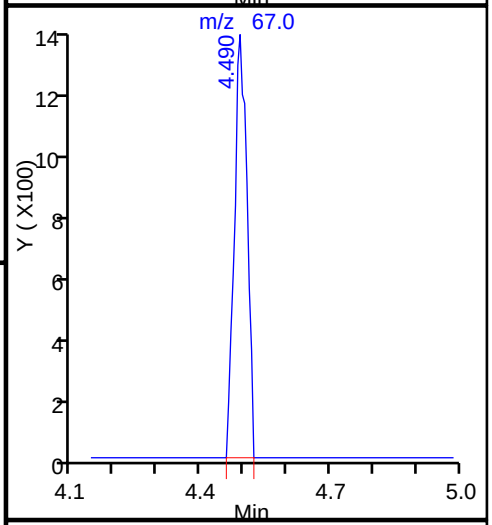
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

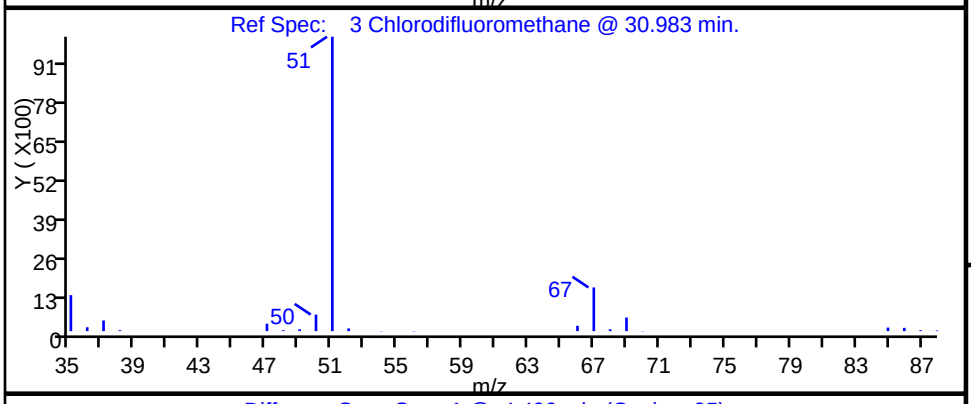
3 Chlorodifluoromethane, CAS: 75-45-6

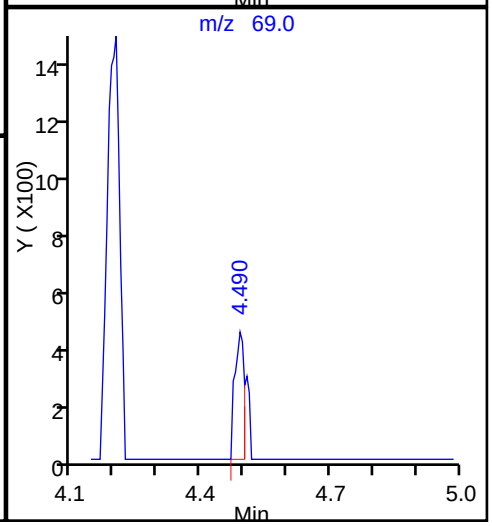


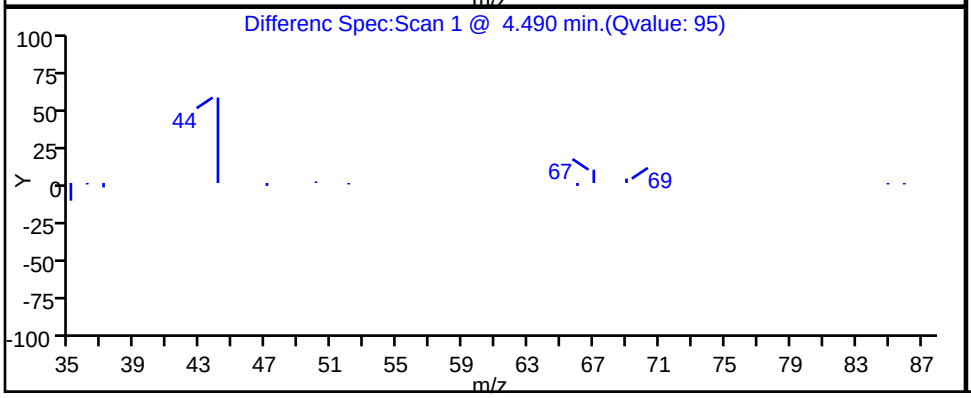












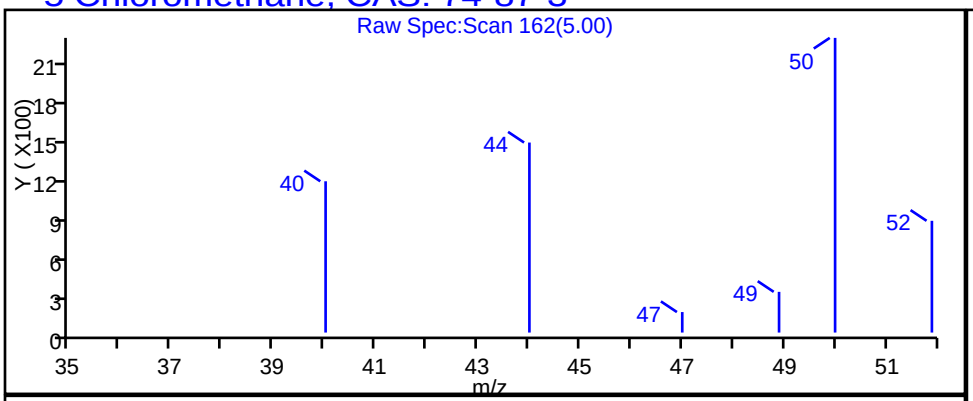
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

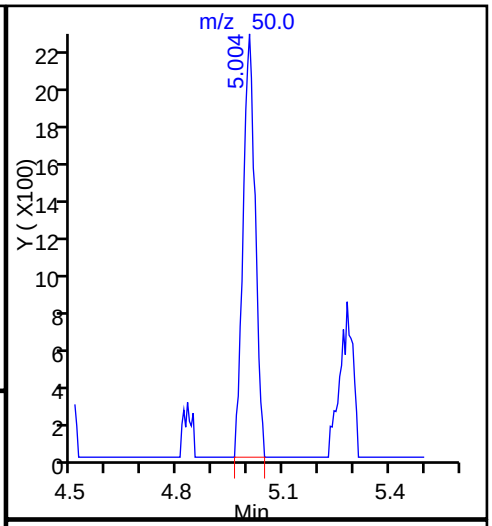
TestAmerica Burlington

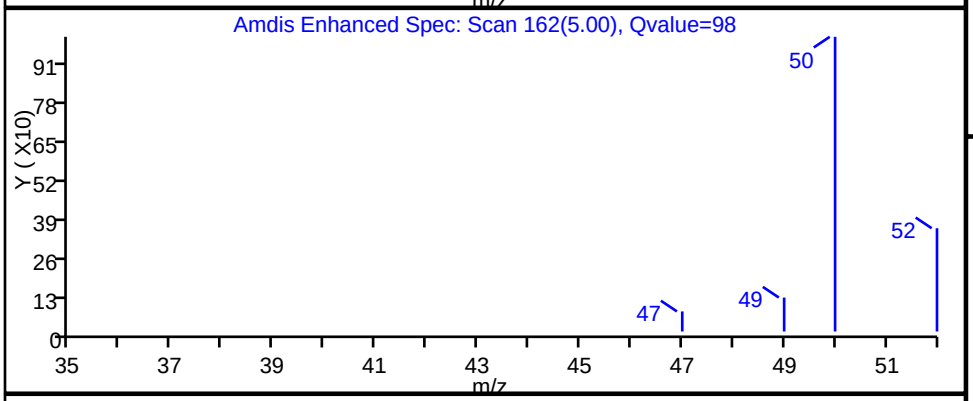
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

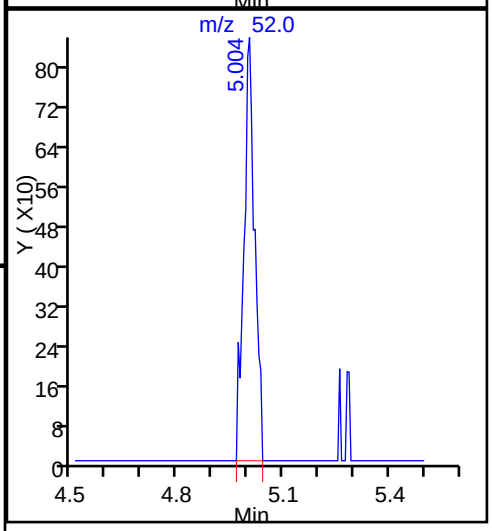
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

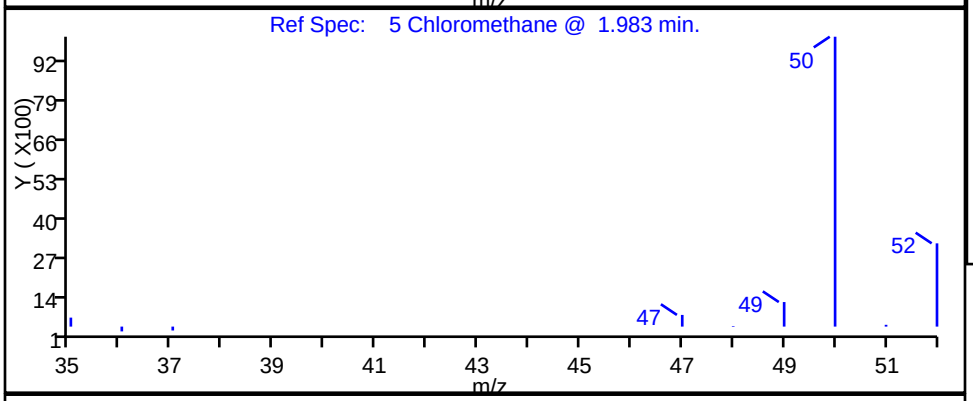
5 Chloromethane, CAS: 74-87-3

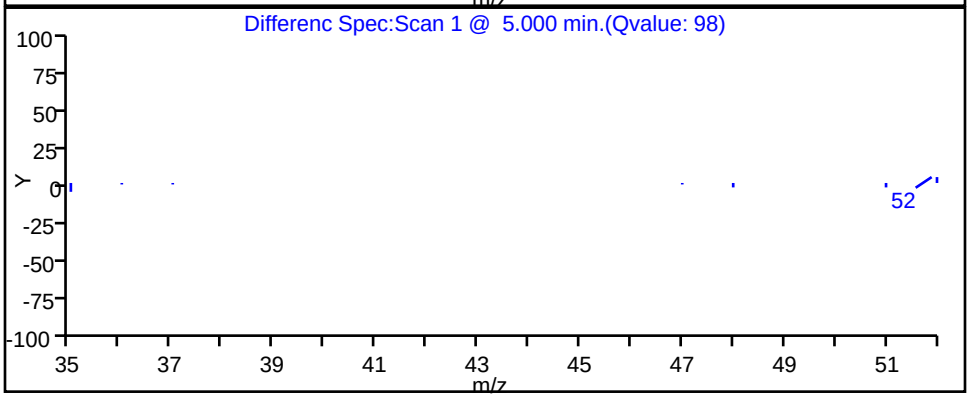












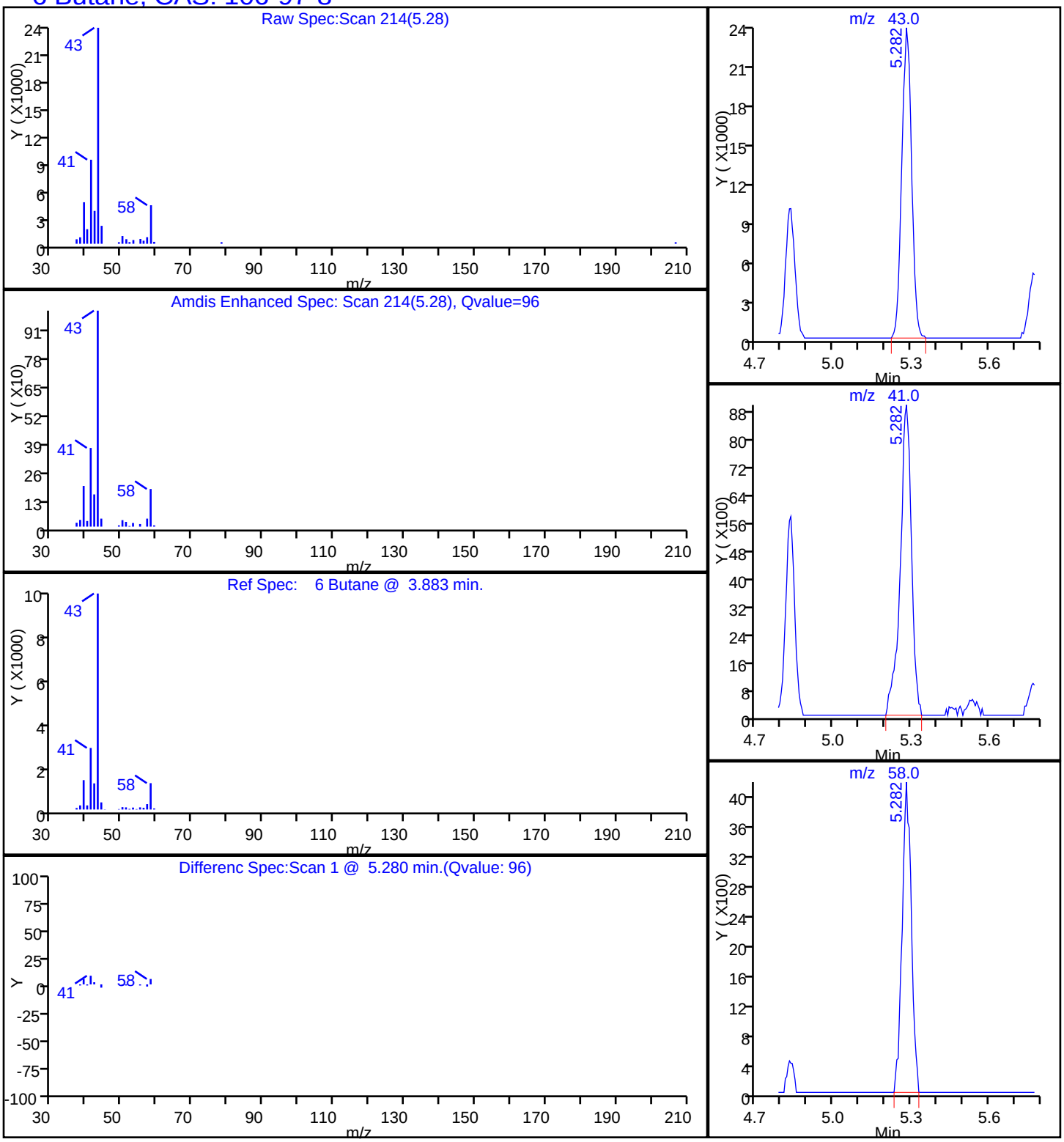
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

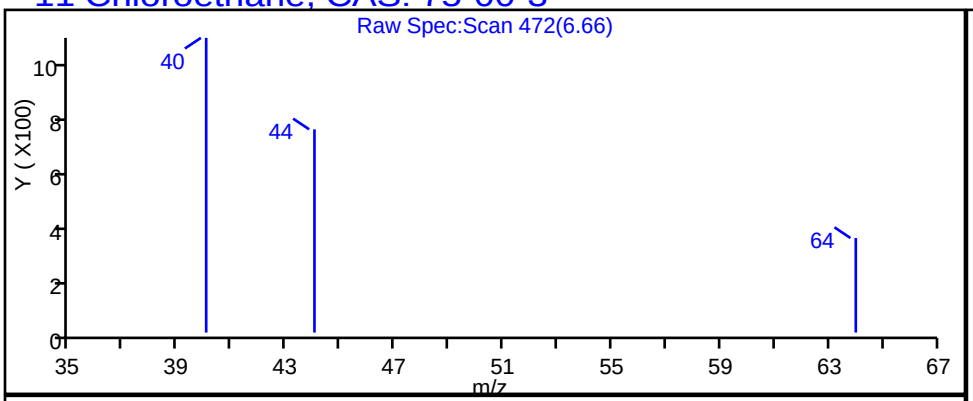


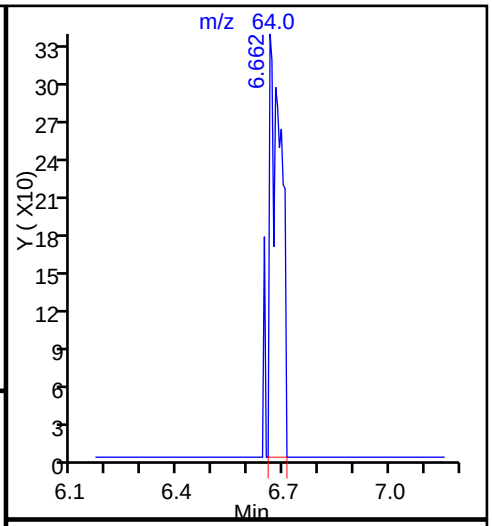
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

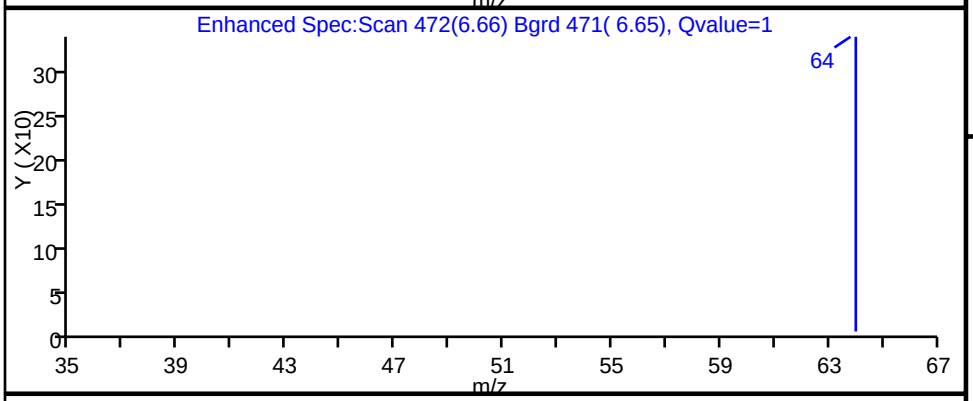
TestAmerica Burlington

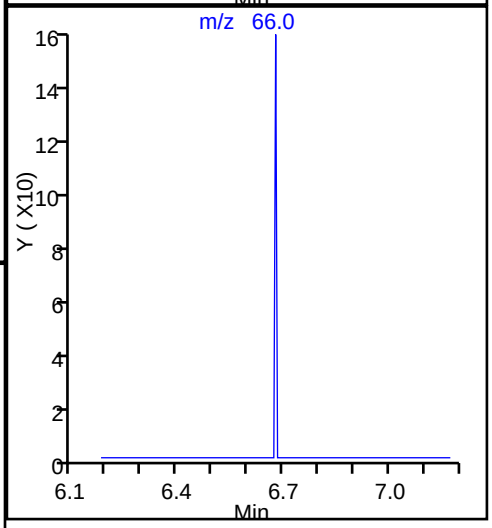
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

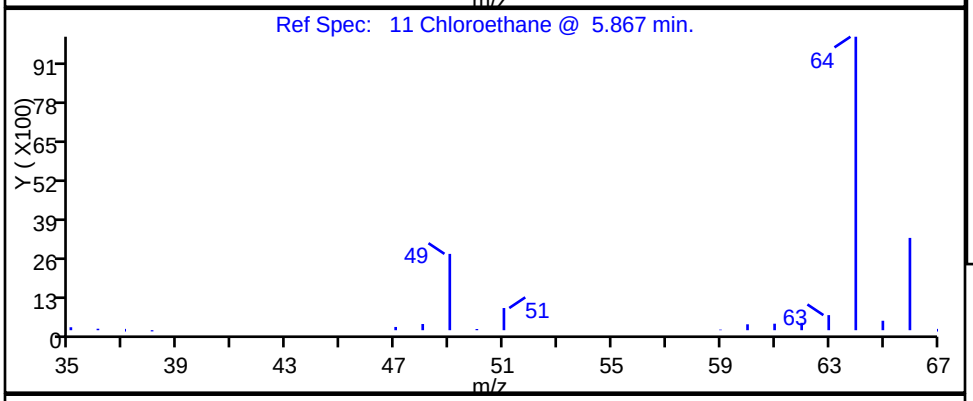
11 Chloroethane, CAS: 75-00-3

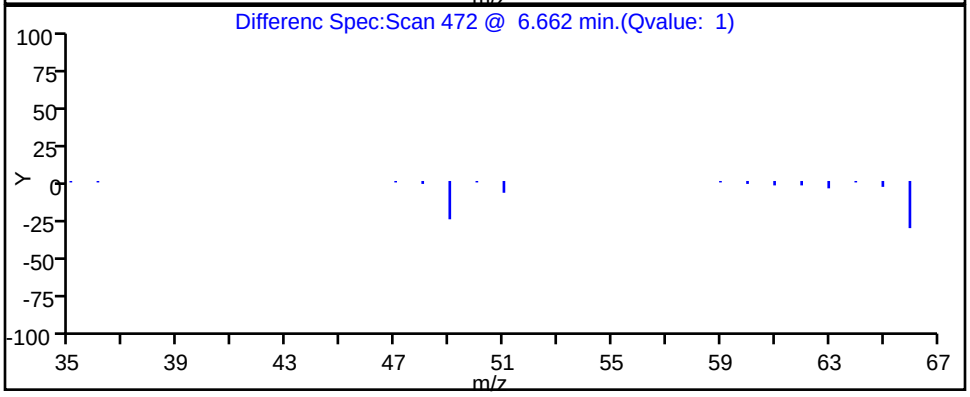












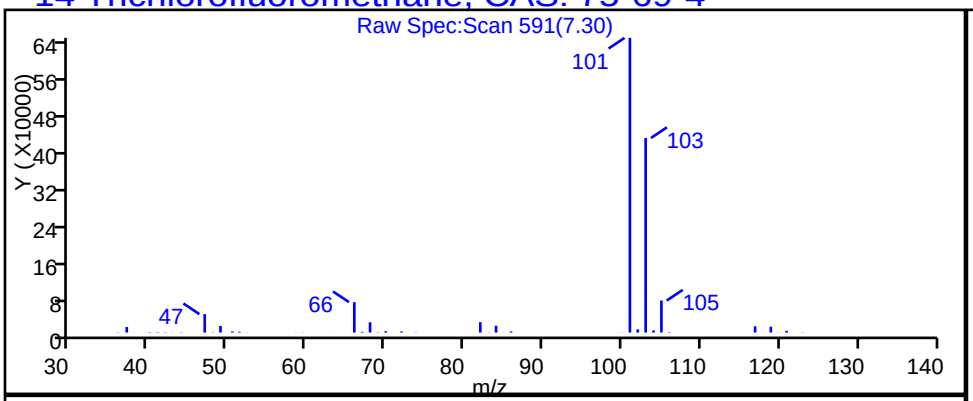
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

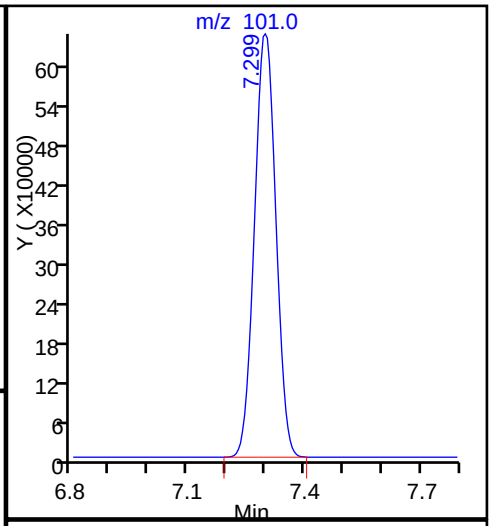
TestAmerica Burlington

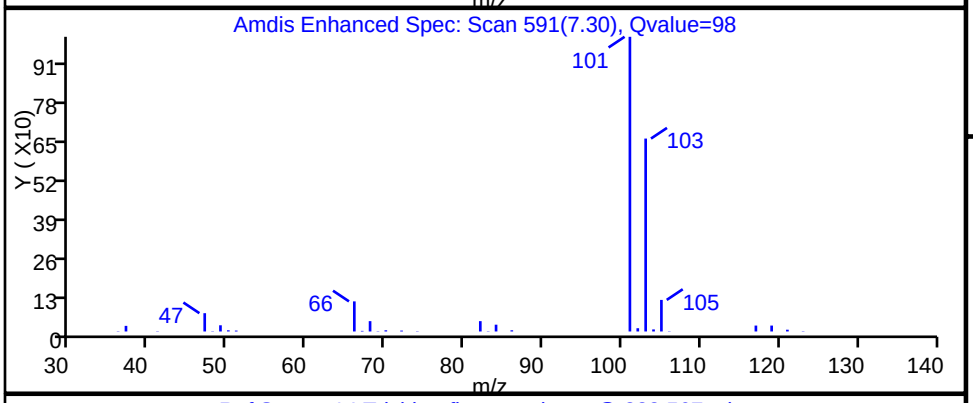
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

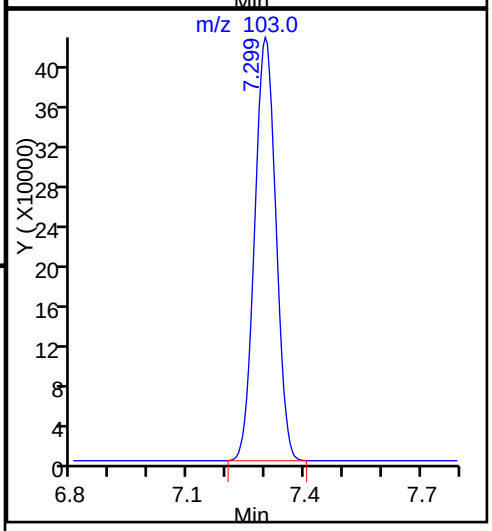
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

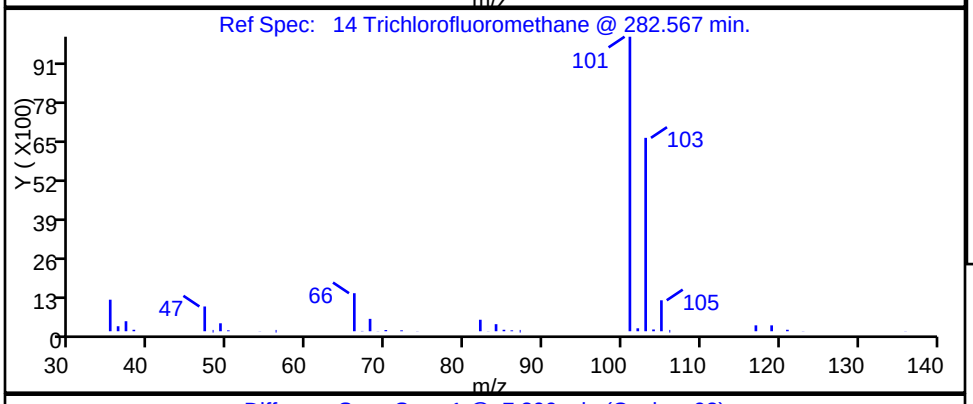
14 Trichlorofluoromethane, CAS: 75-69-4

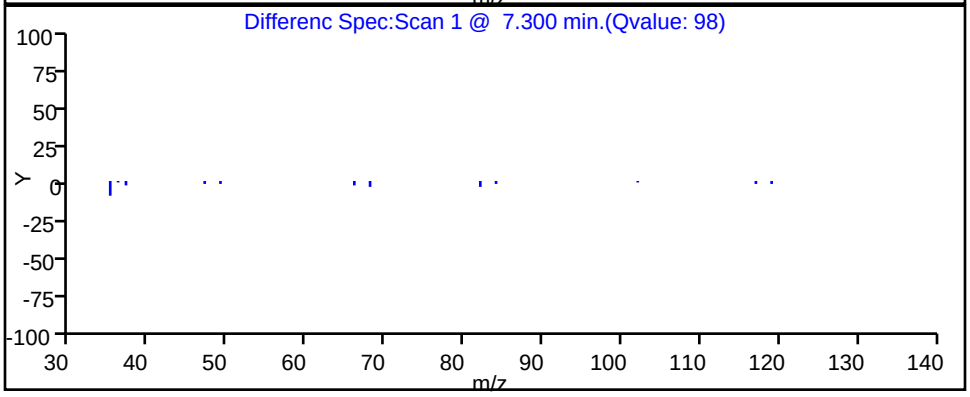












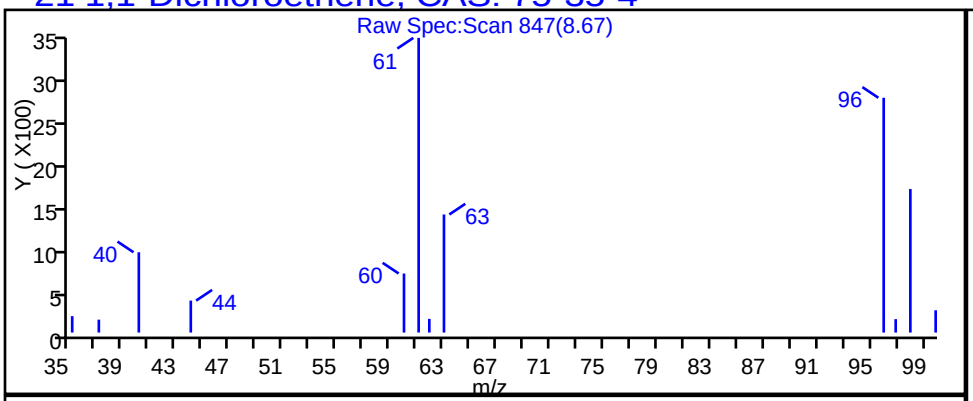
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

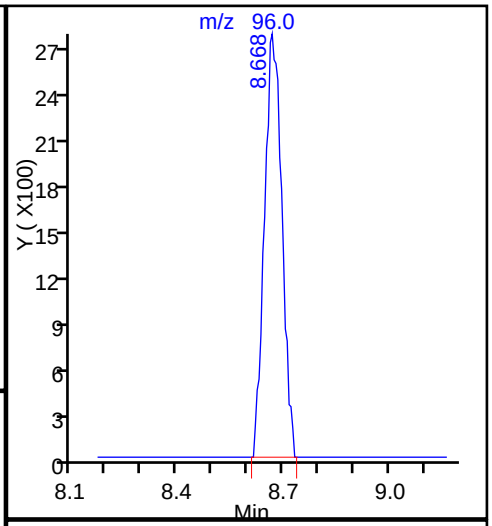
TestAmerica Burlington

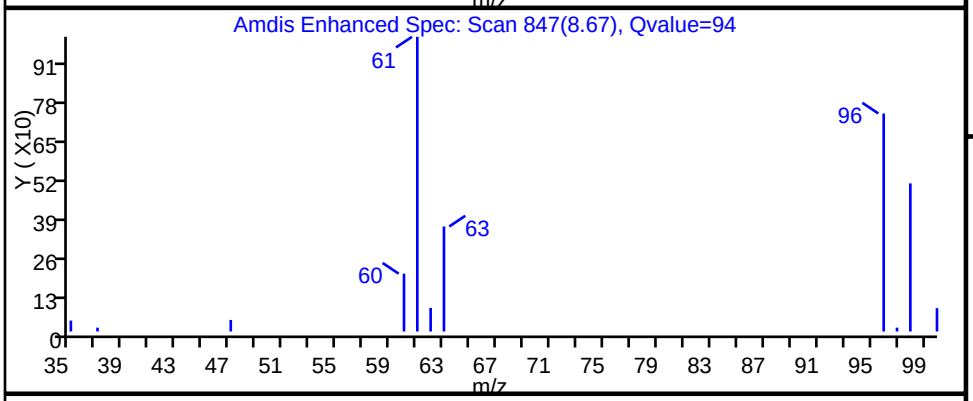
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

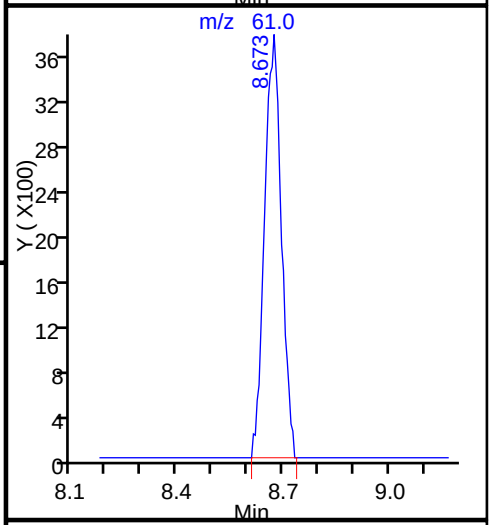
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

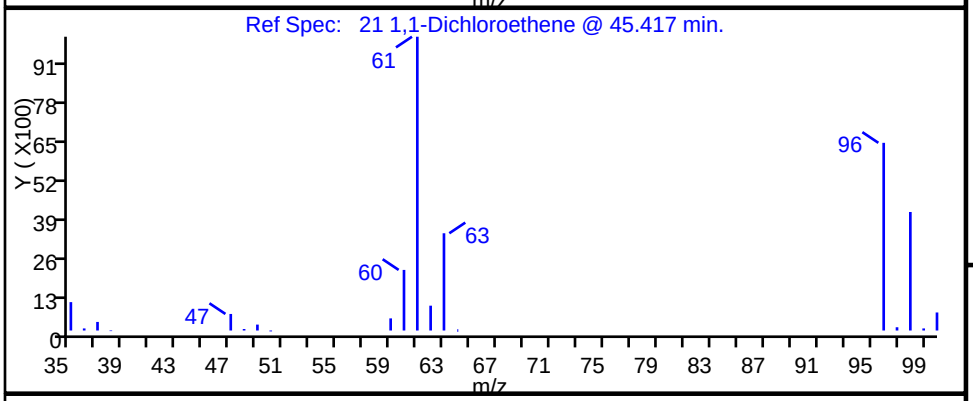
21 1,1-Dichloroethene, CAS: 75-35-4

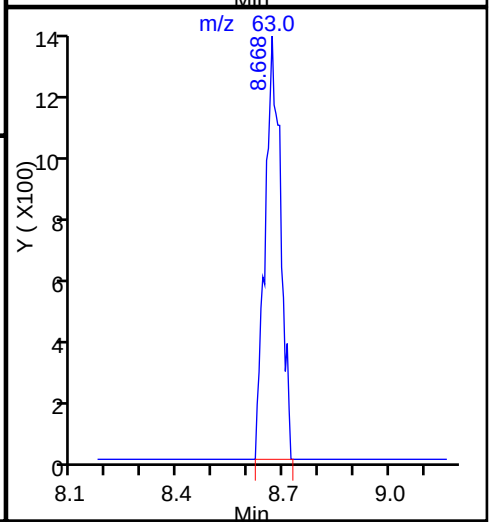


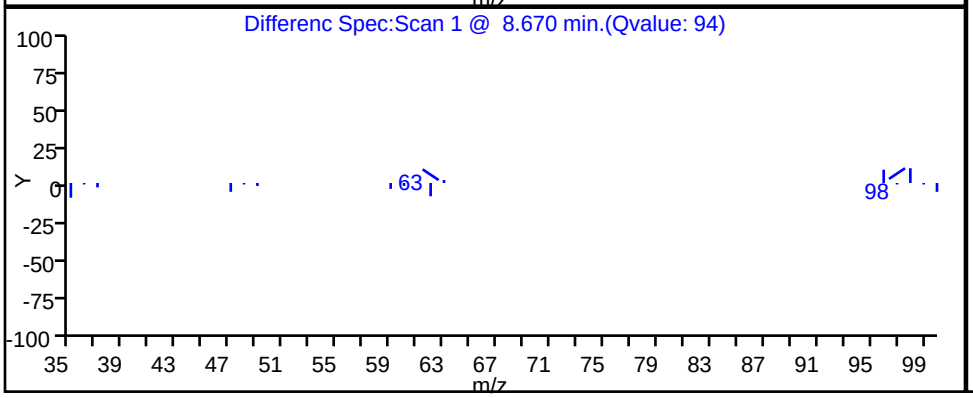












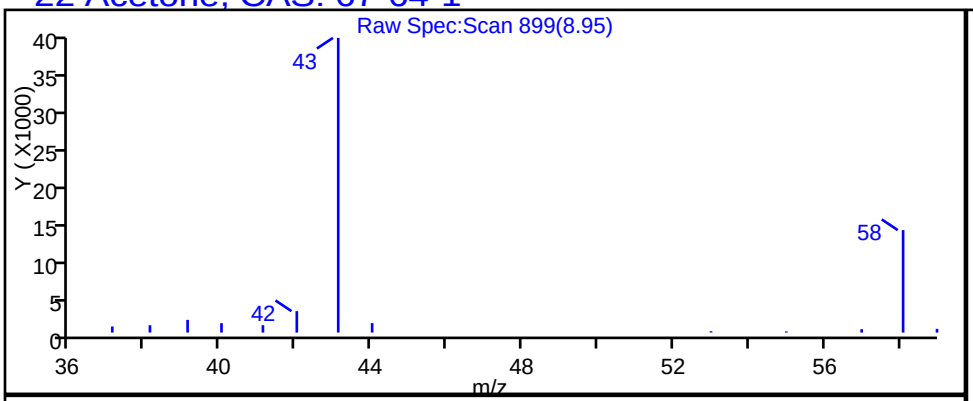
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

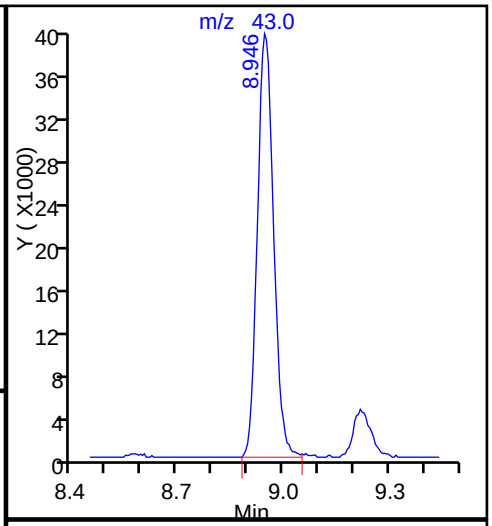
TestAmerica Burlington

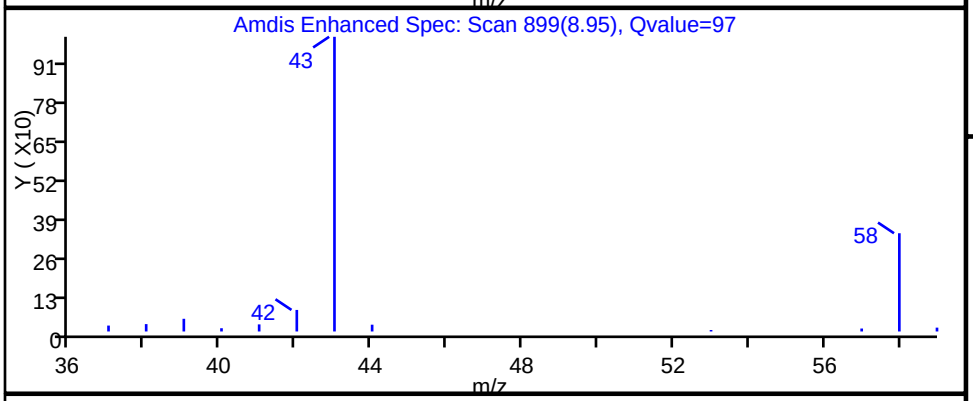
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

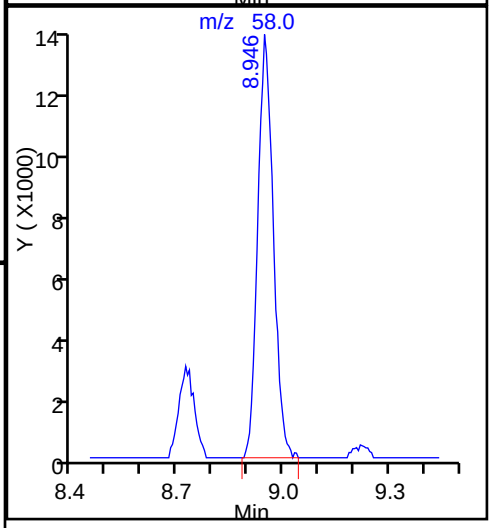
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

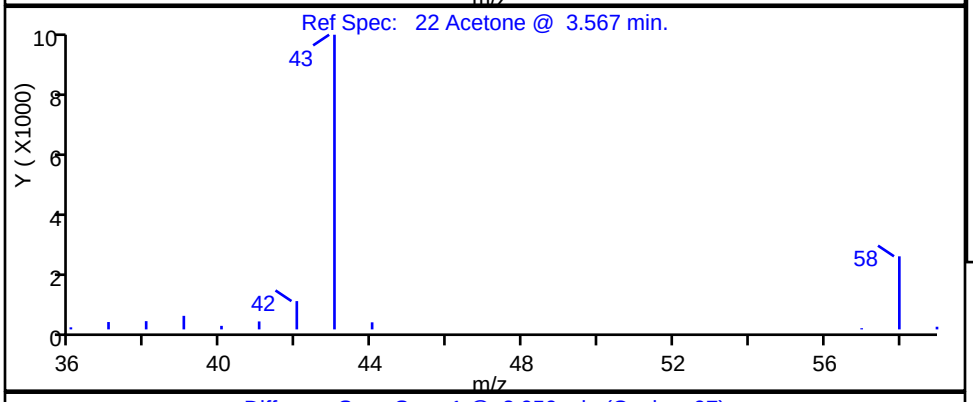
22 Acetone, CAS: 67-64-1

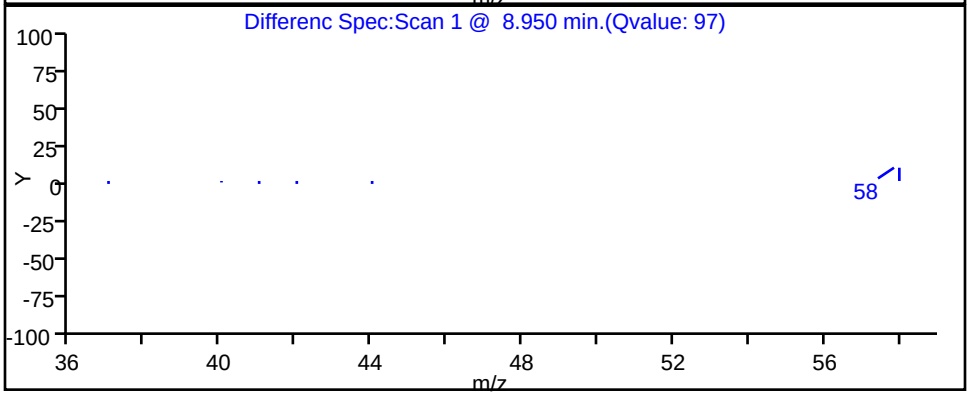












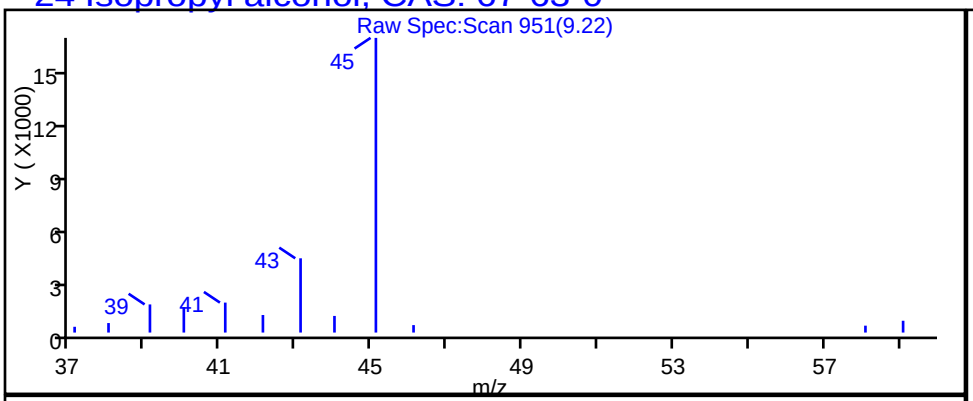
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

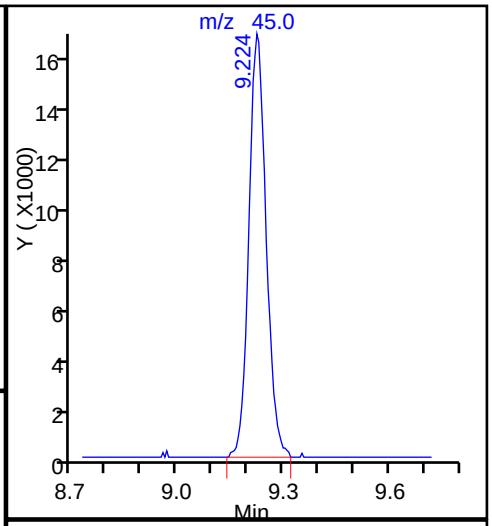
TestAmerica Burlington

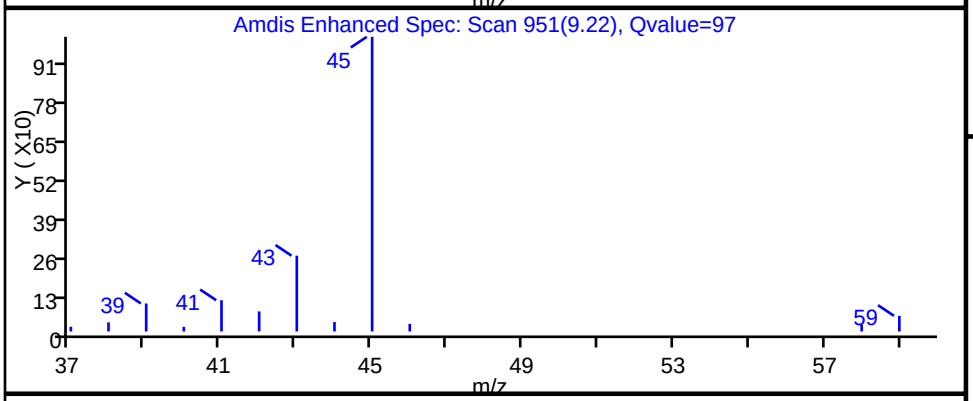
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

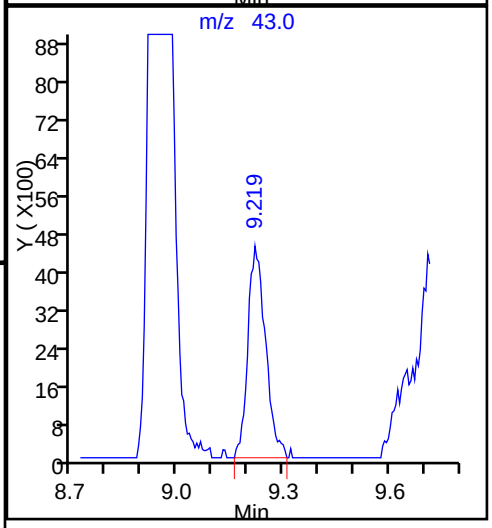
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

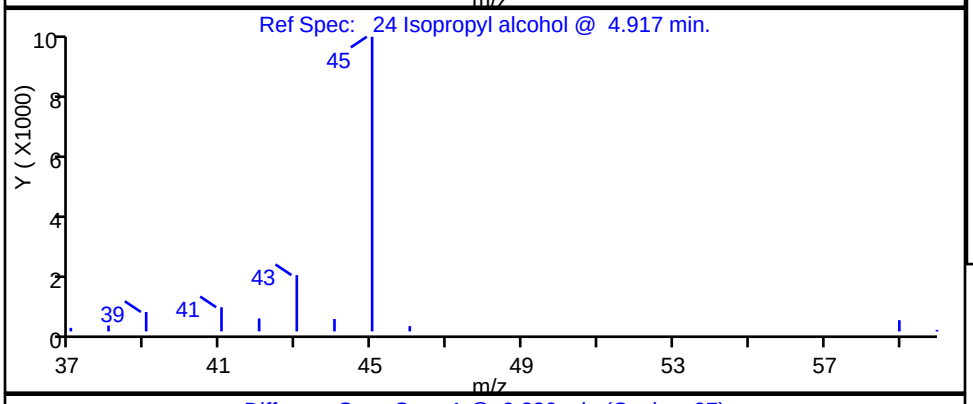
24 Isopropyl alcohol, CAS: 67-63-0

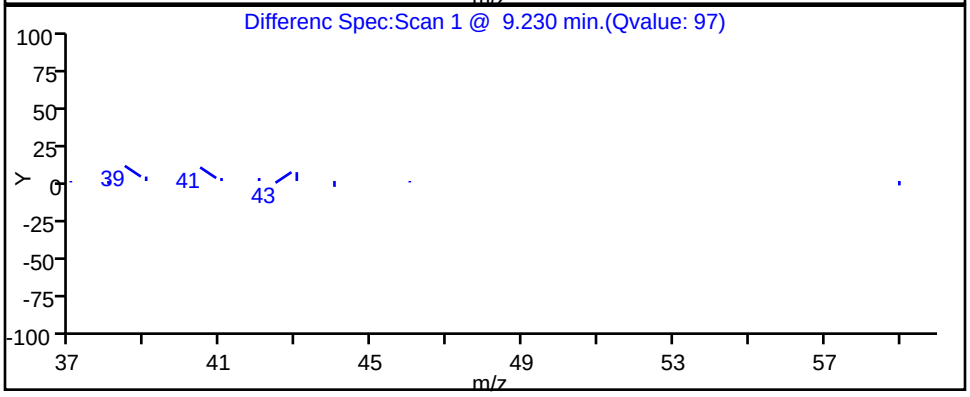










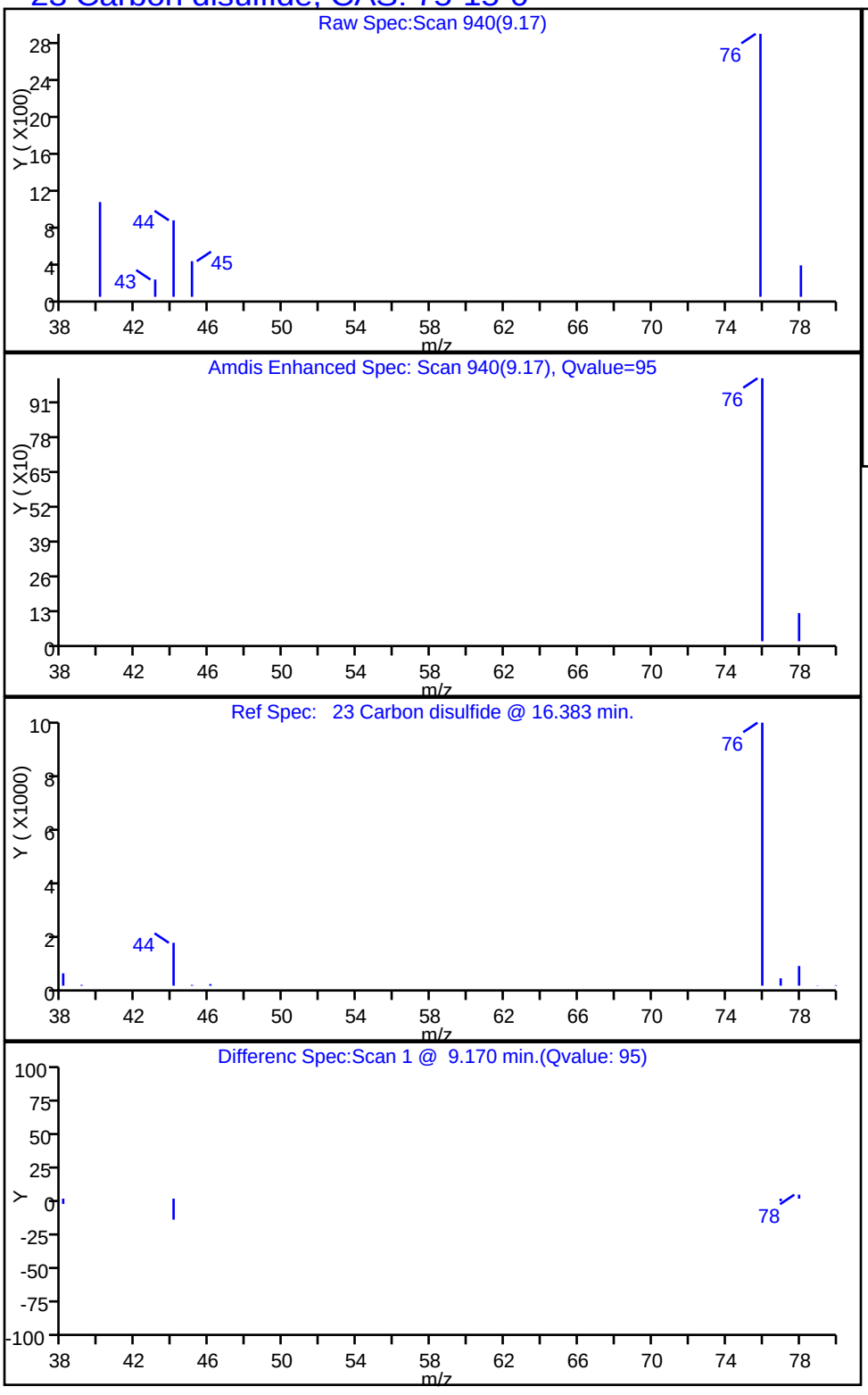


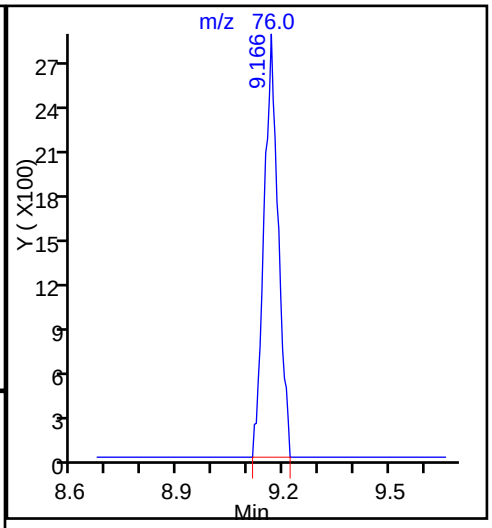
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





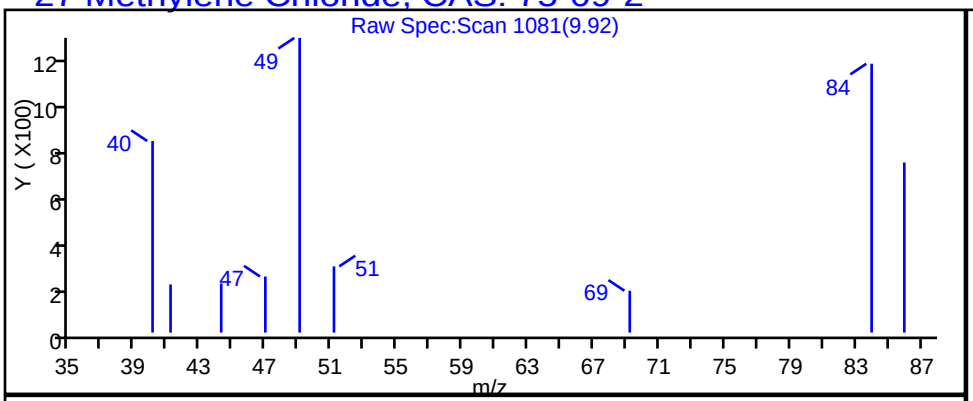
Report Date: 01-Oct-2015 12:53:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

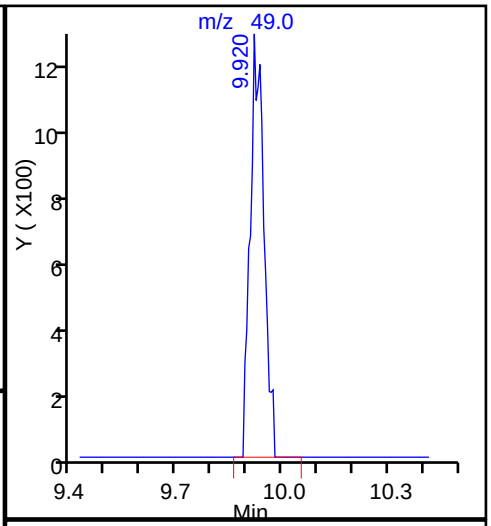
TestAmerica Burlington

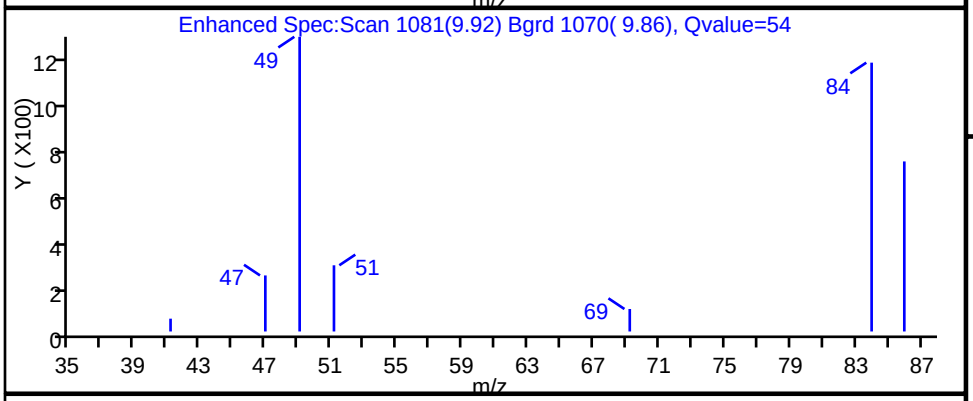
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

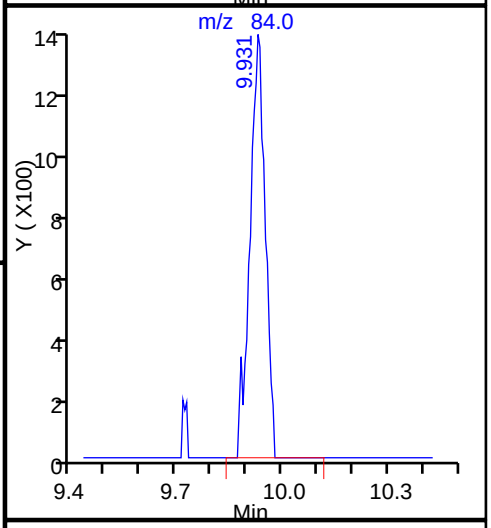
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

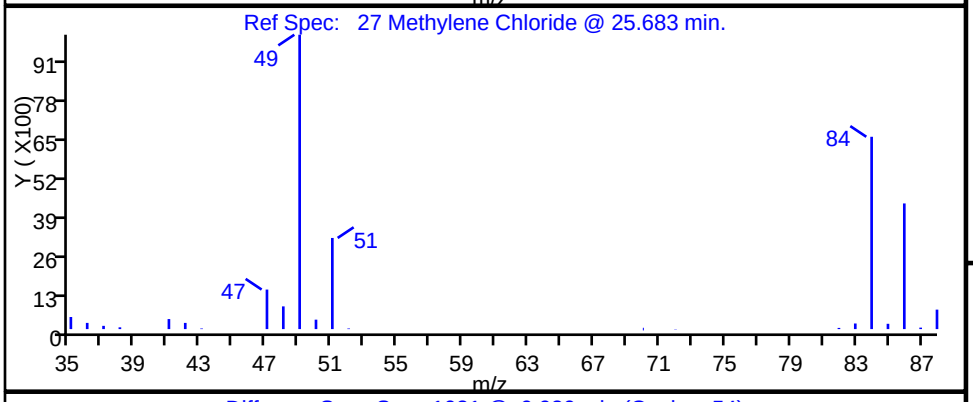
27 Methylene Chloride, CAS: 75-09-2

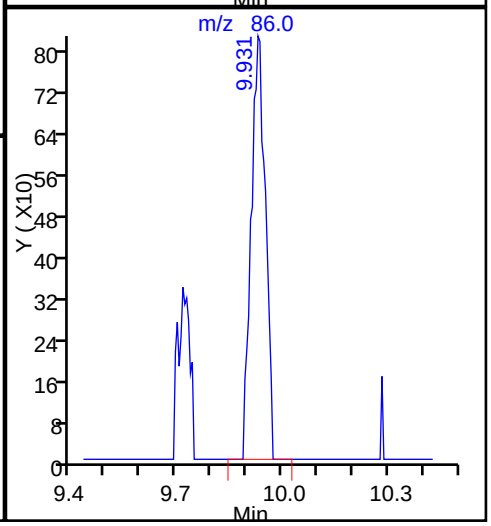


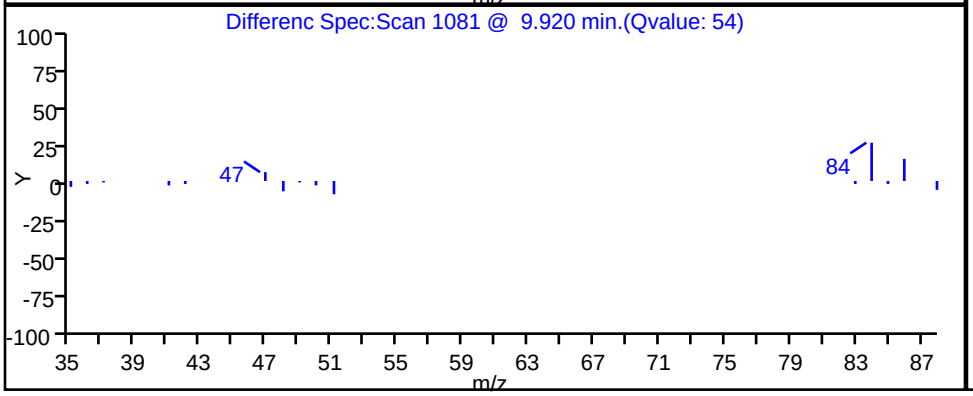












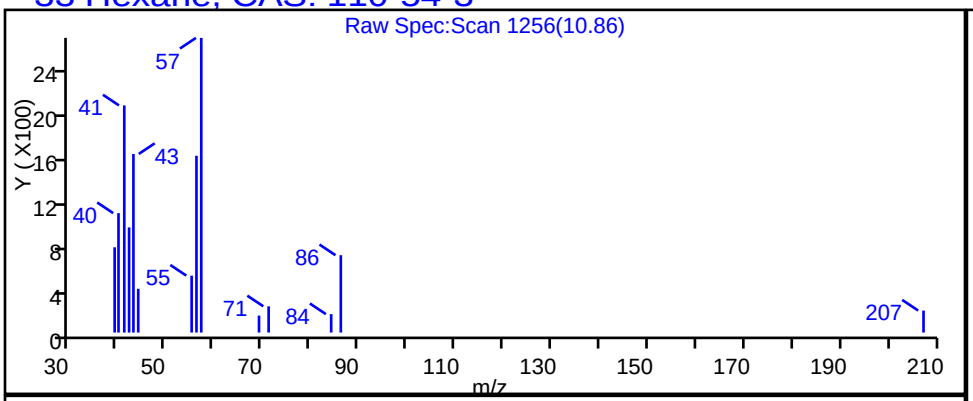
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

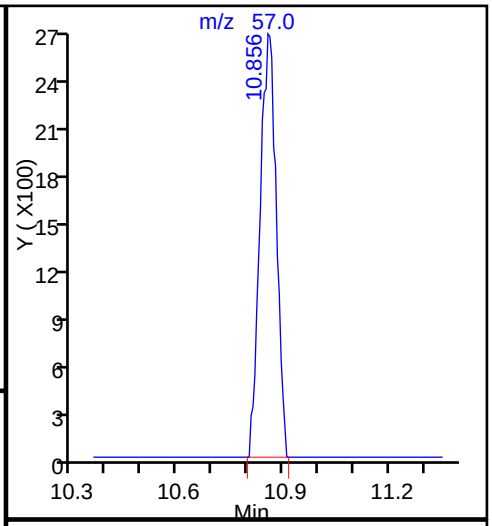
TestAmerica Burlington

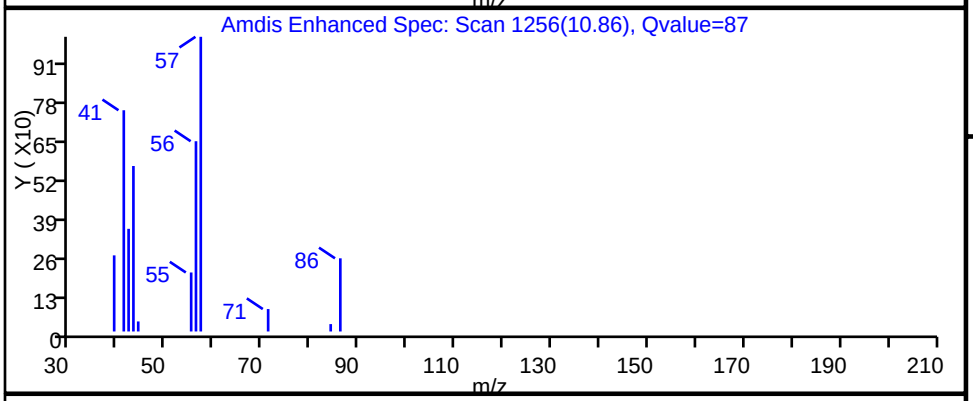
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

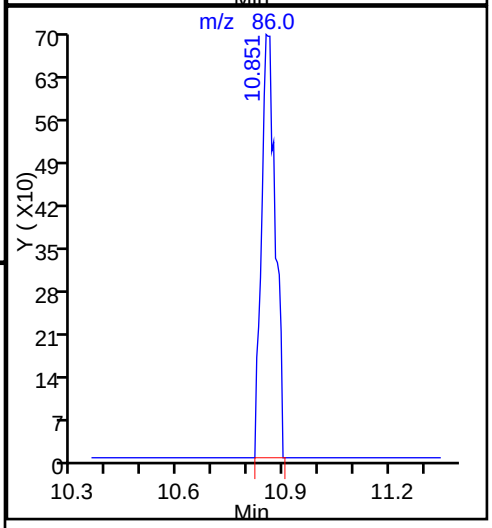
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

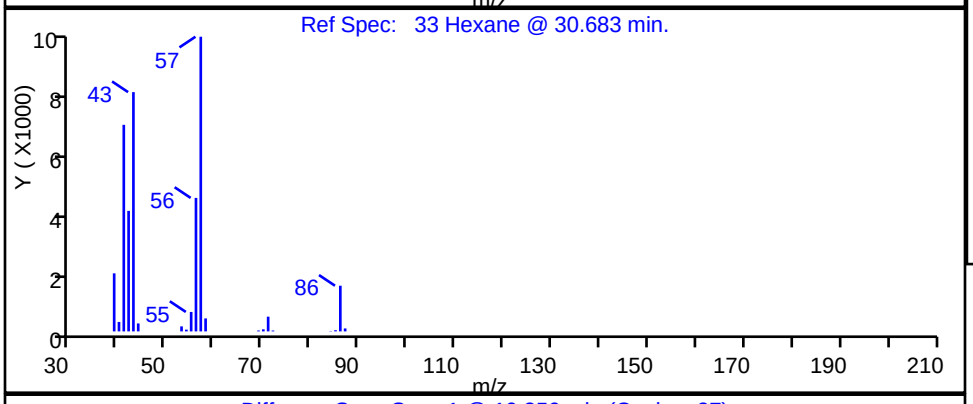
33 Hexane, CAS: 110-54-3

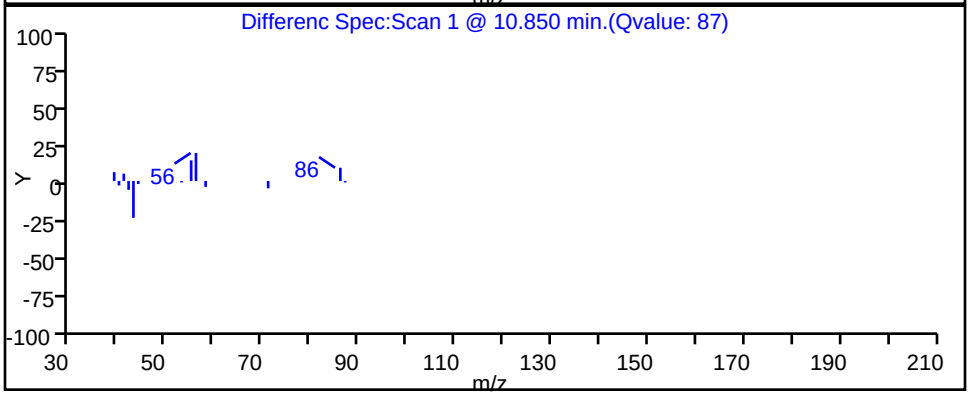












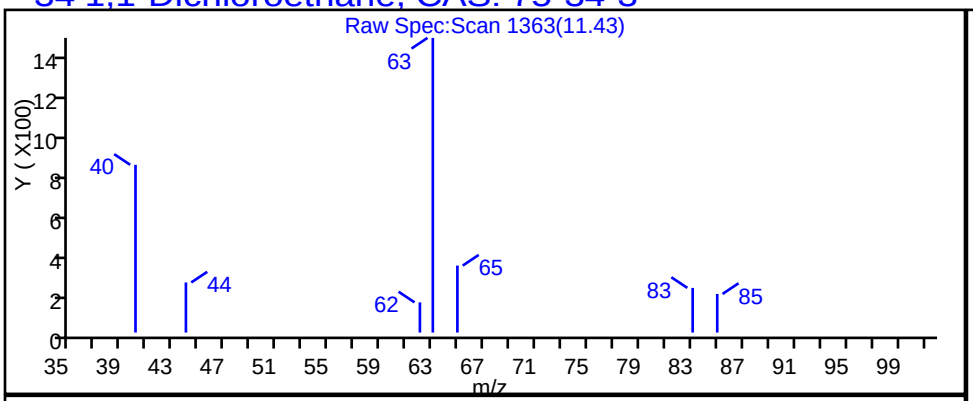
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

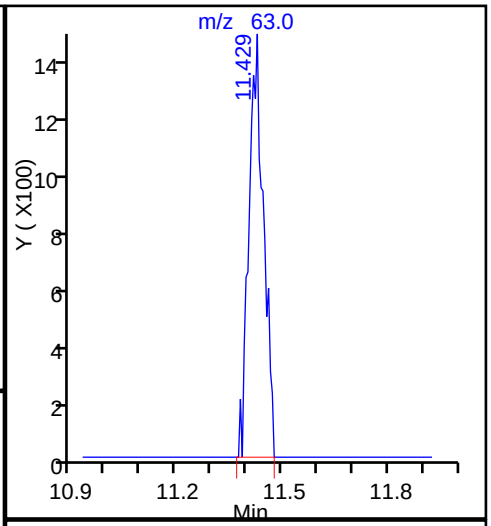
TestAmerica Burlington

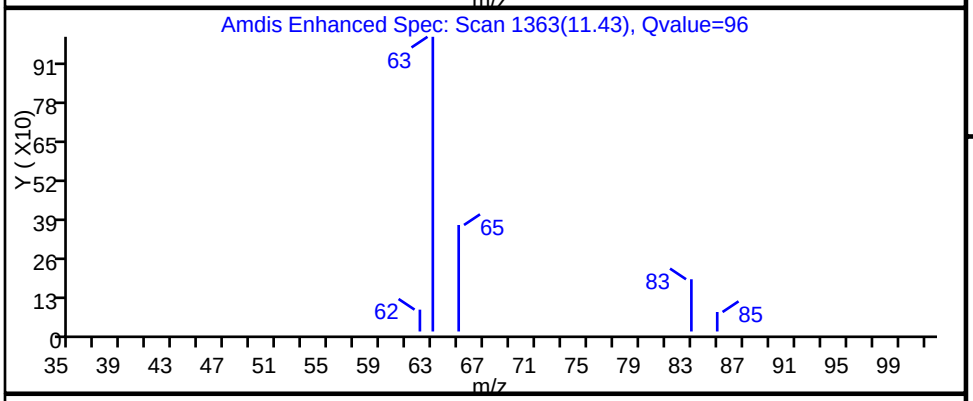
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

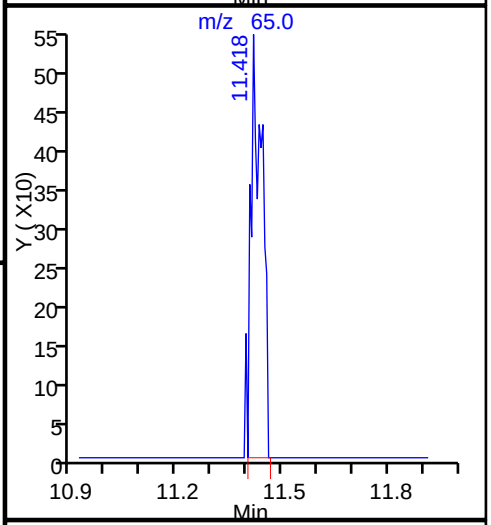
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

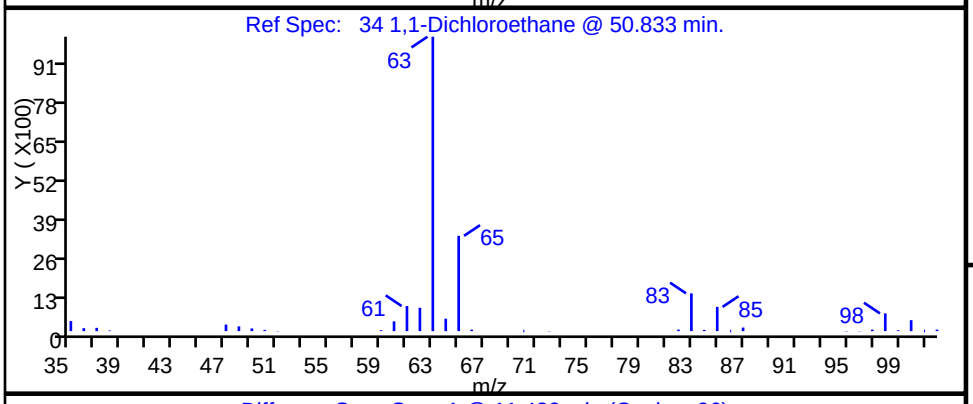
34 1,1-Dichloroethane, CAS: 75-34-3

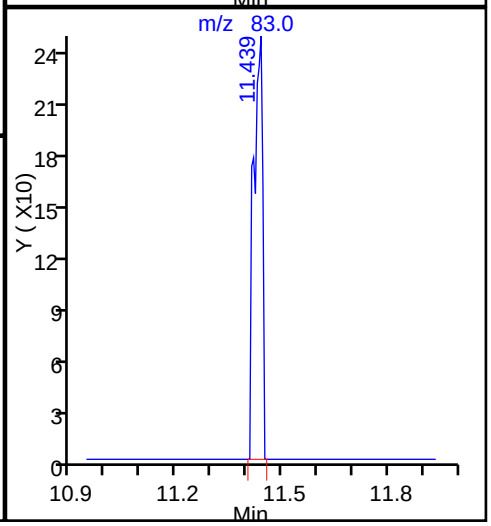


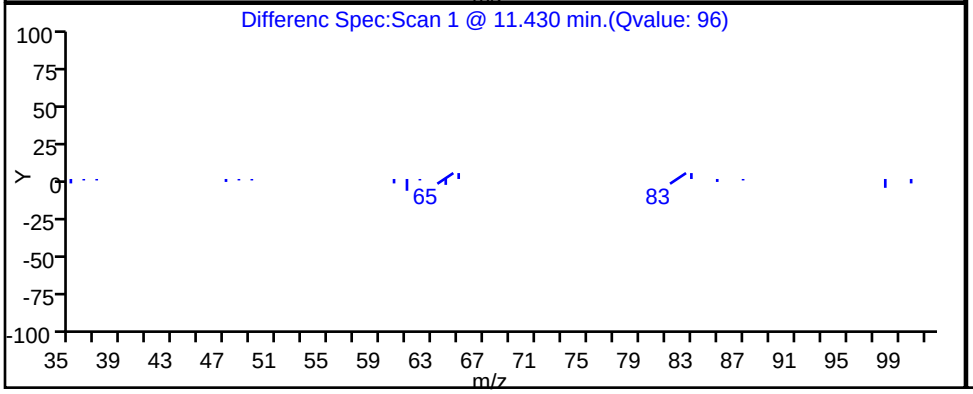










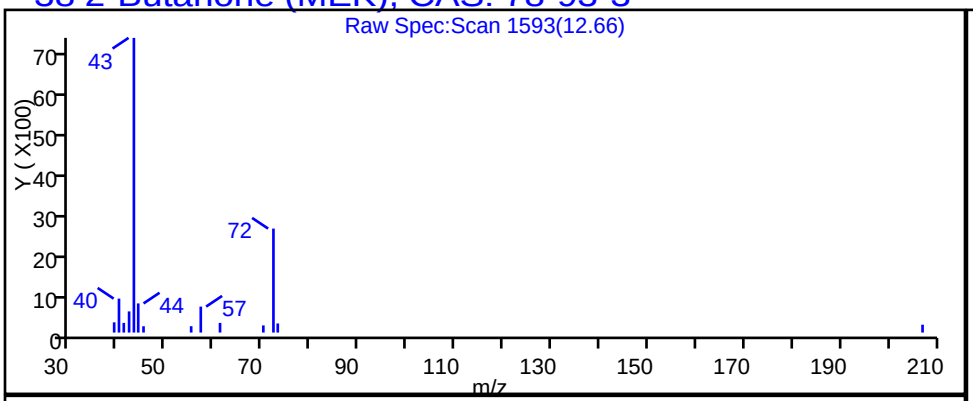


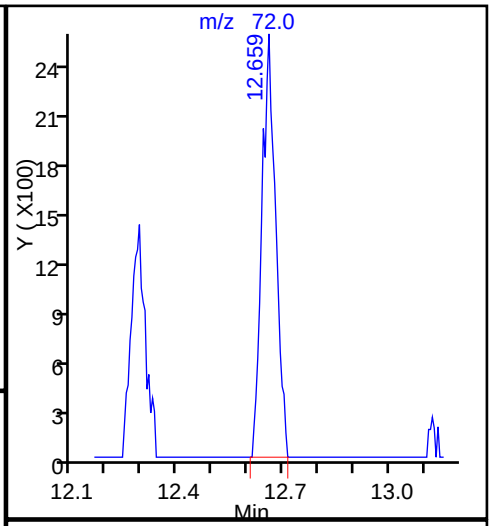
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

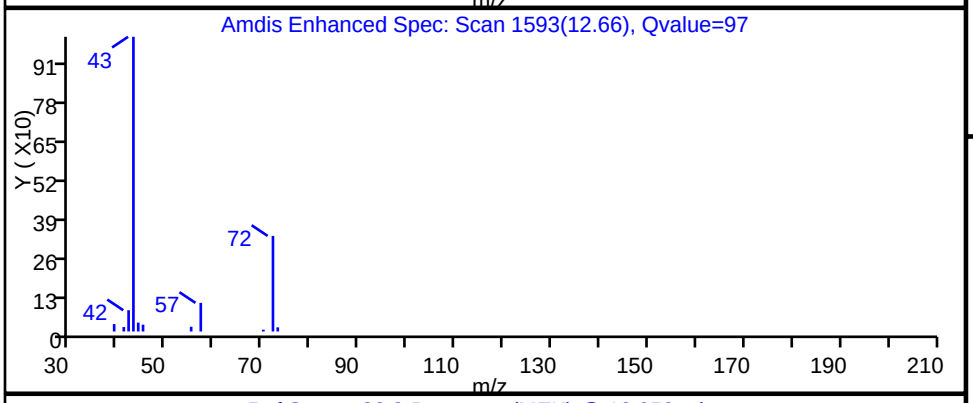
TestAmerica Burlington

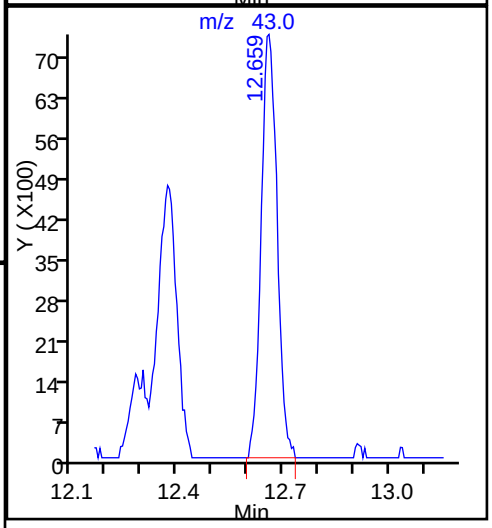
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

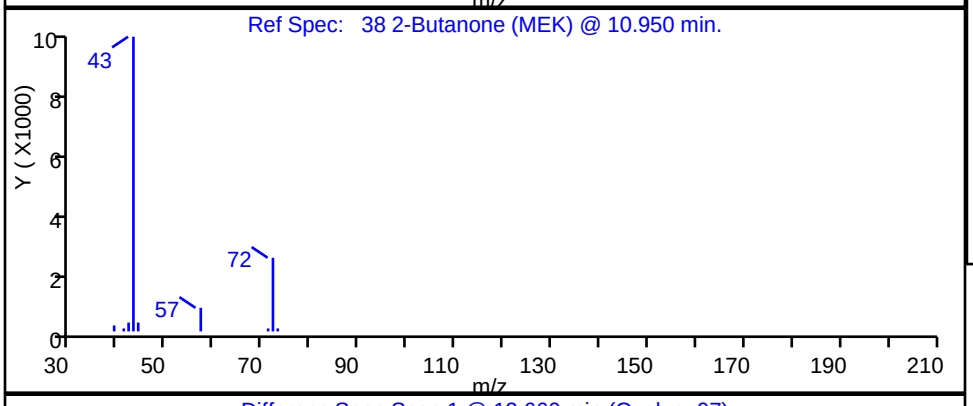
38 2-Butanone (MEK), CAS: 78-93-3

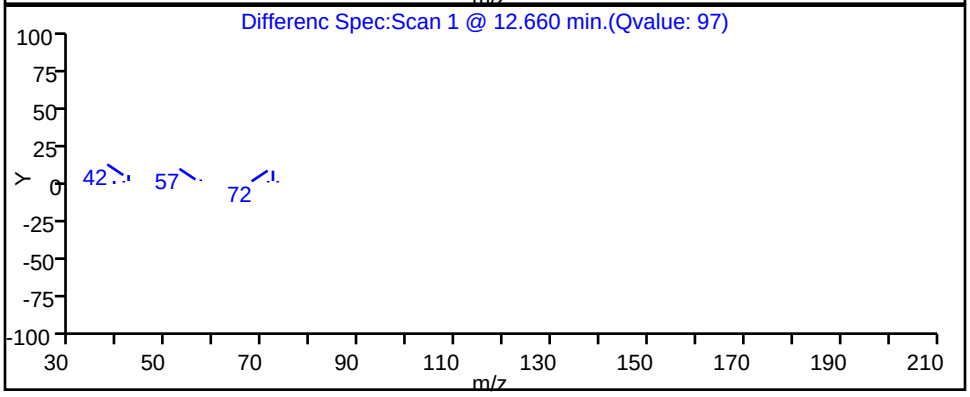










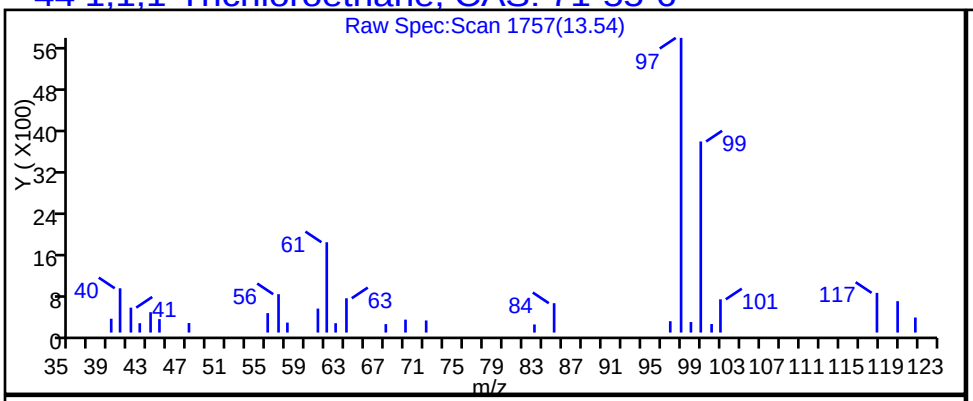


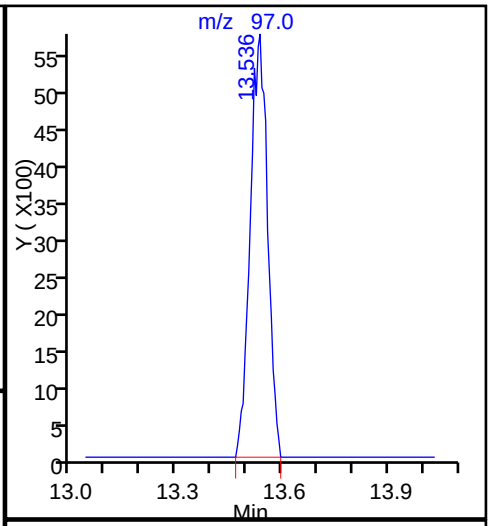
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

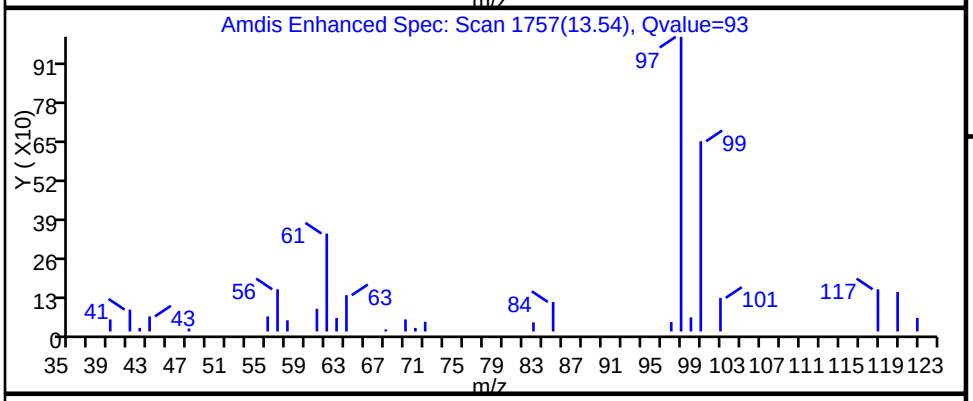
TestAmerica Burlington

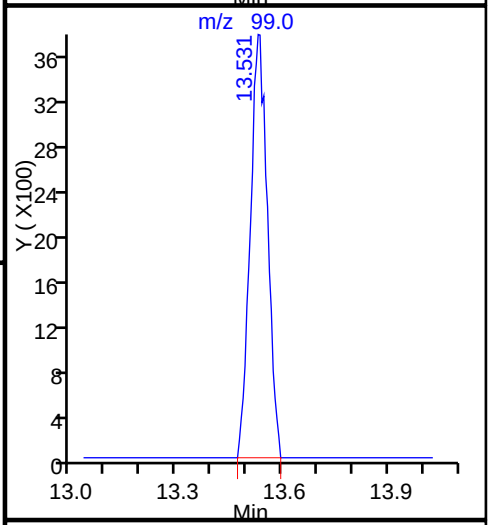
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

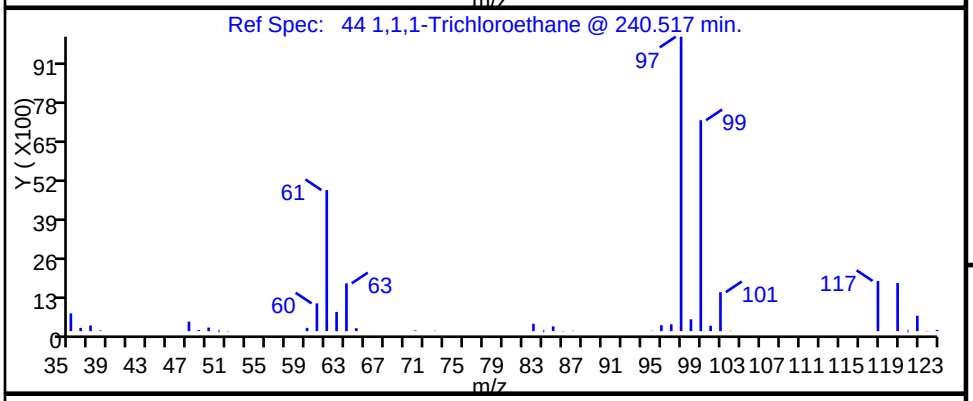
44 1,1,1-Trichloroethane, CAS: 71-55-6

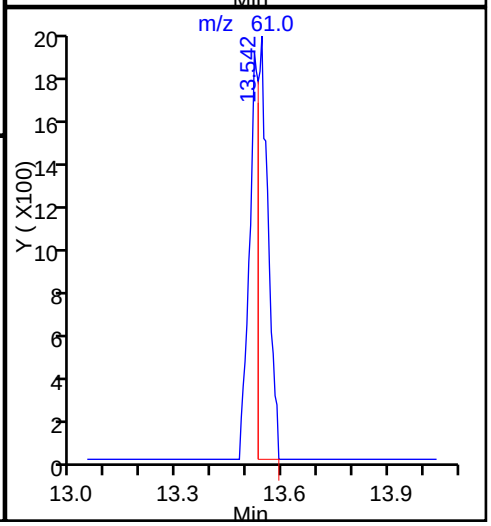


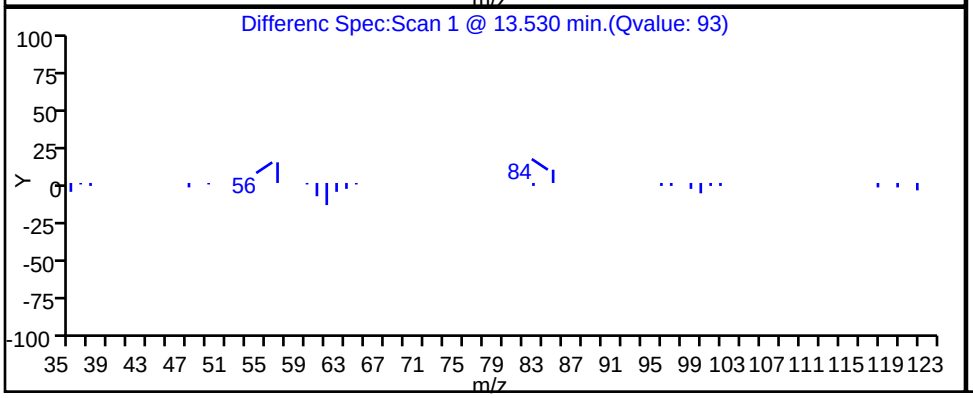












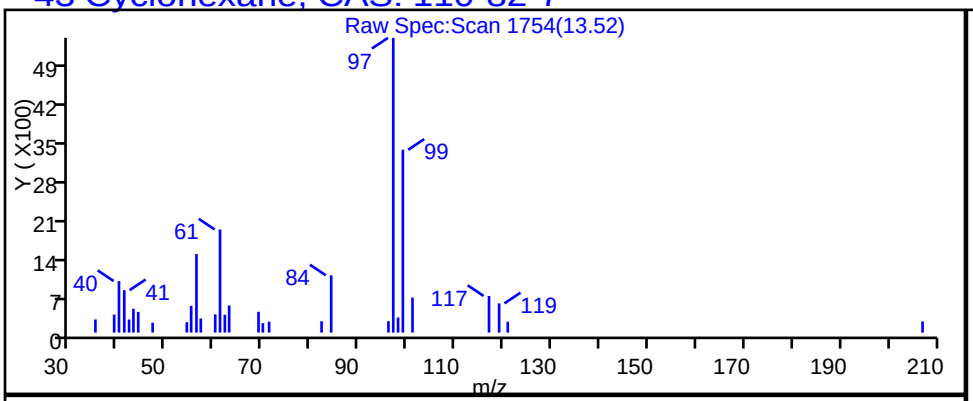
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

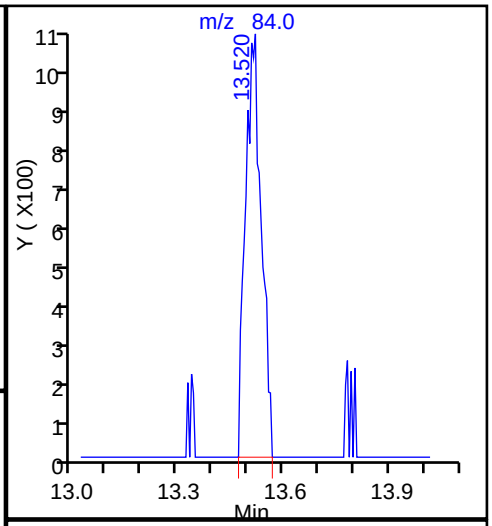
TestAmerica Burlington

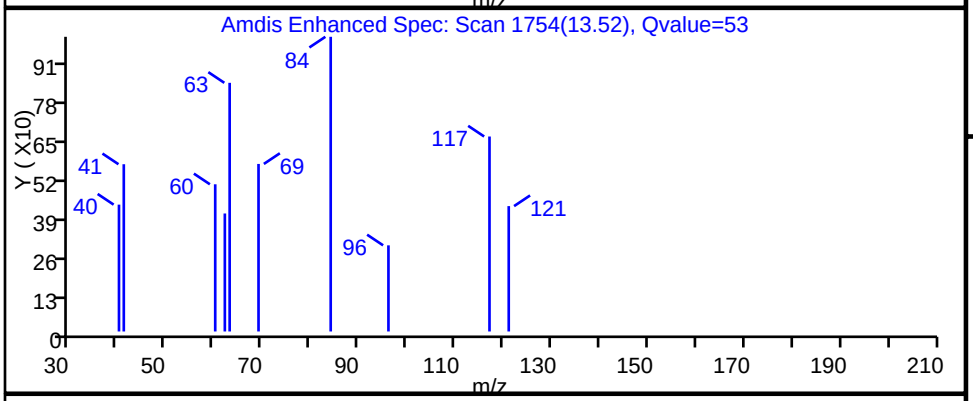
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

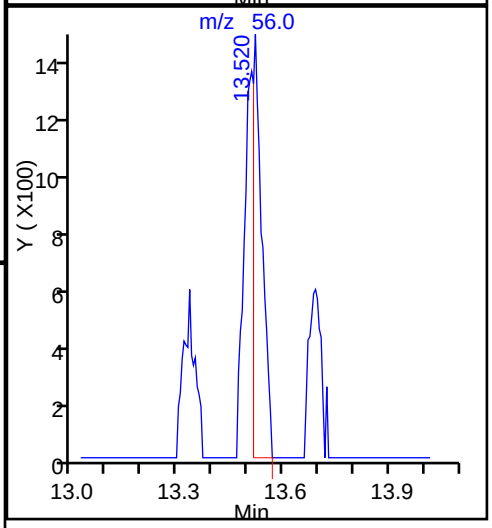
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

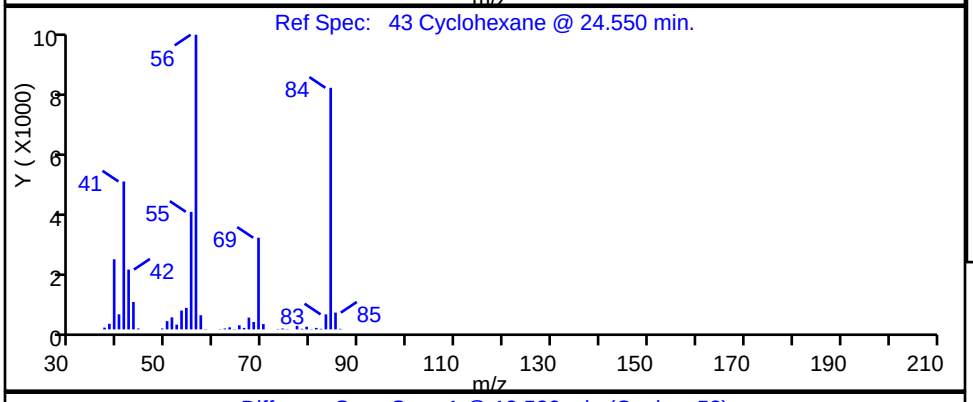
43 Cyclohexane, CAS: 110-82-7

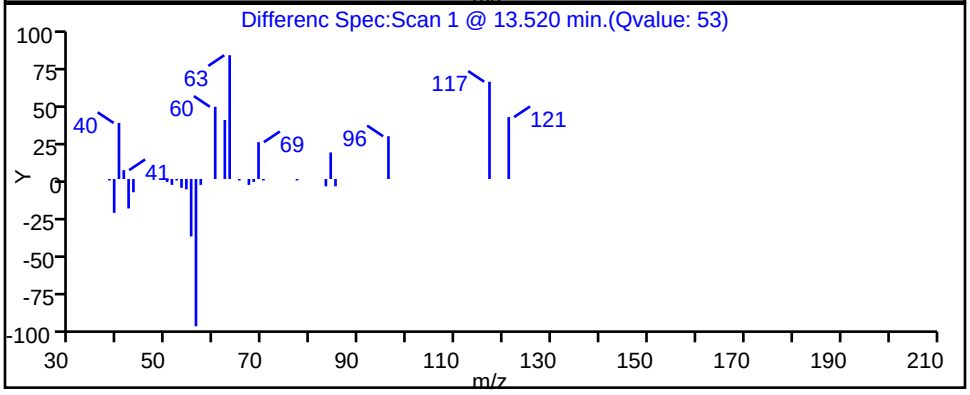










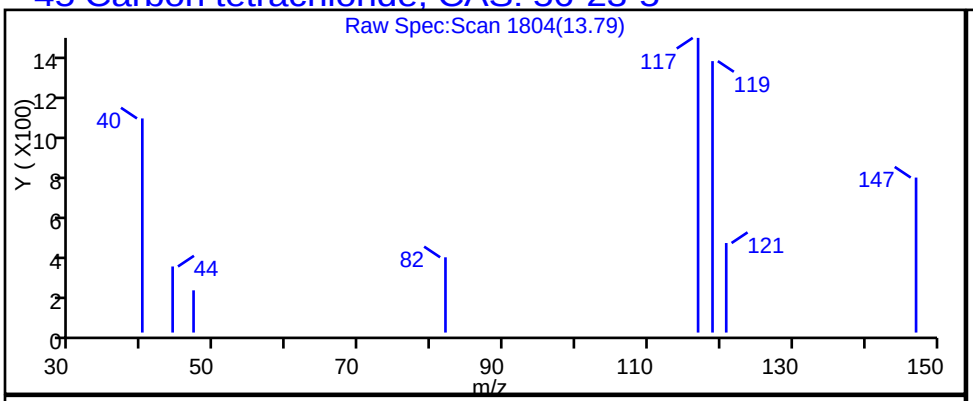


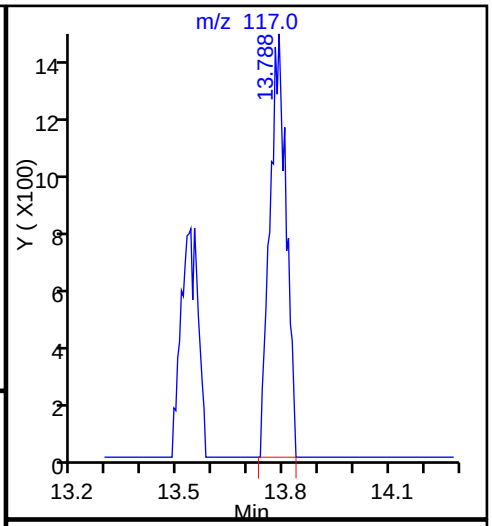
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

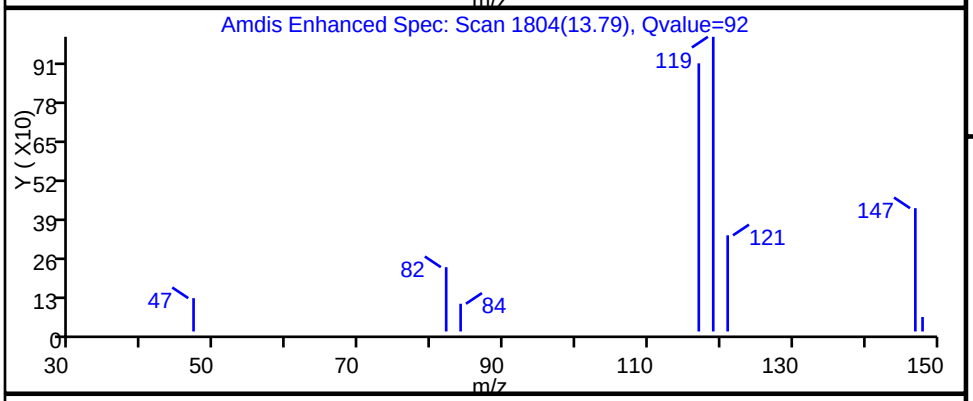
TestAmerica Burlington

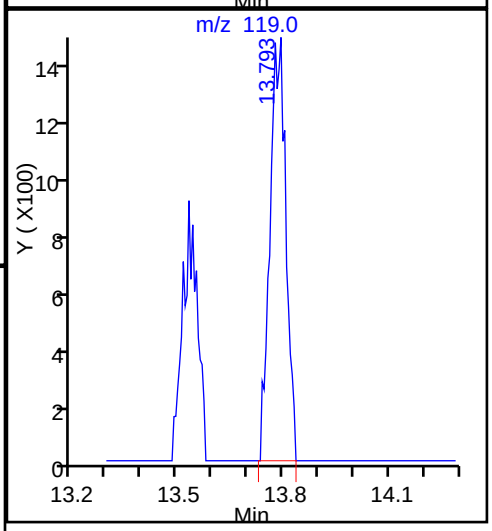
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

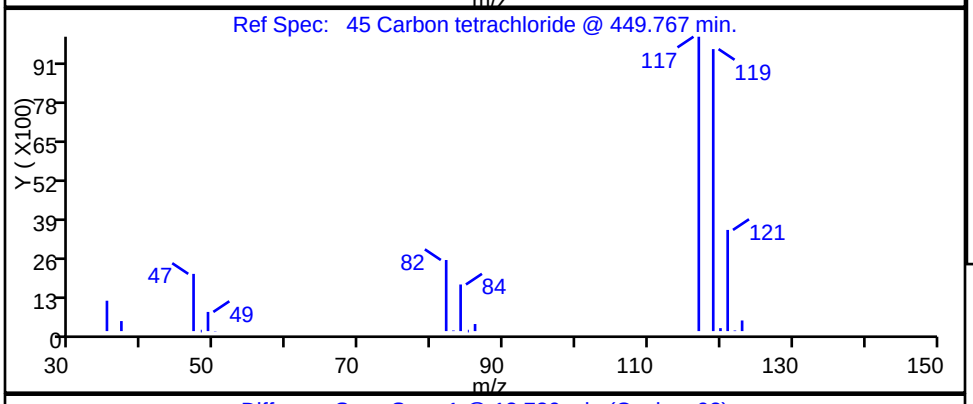
45 Carbon tetrachloride, CAS: 56-23-5

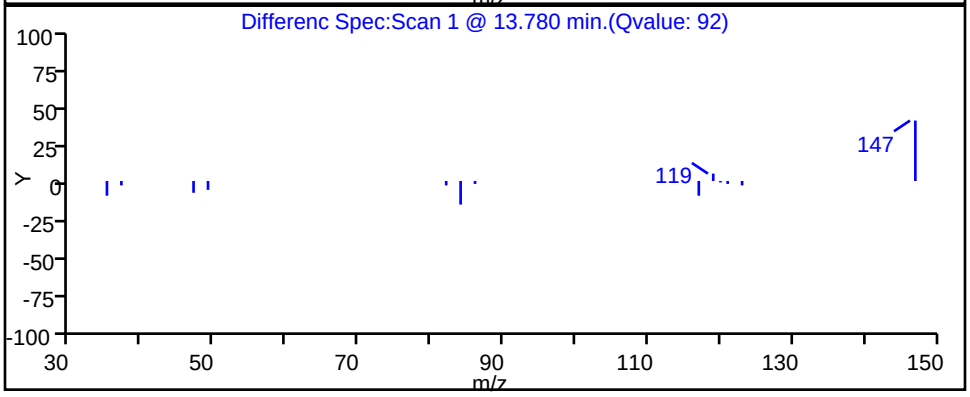












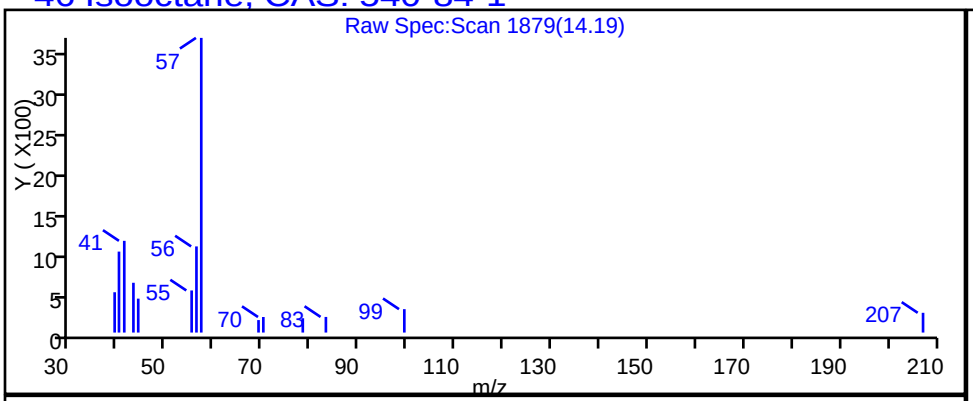
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

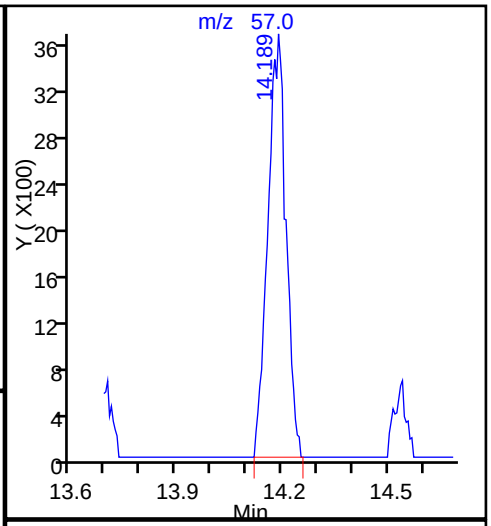
TestAmerica Burlington

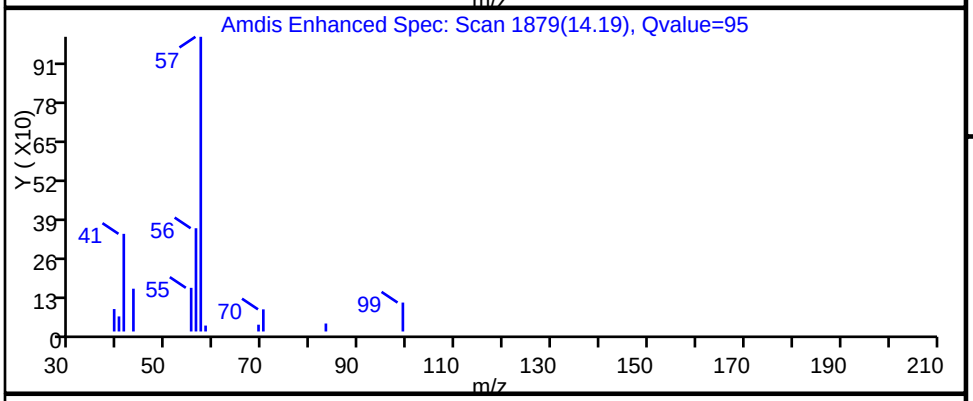
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

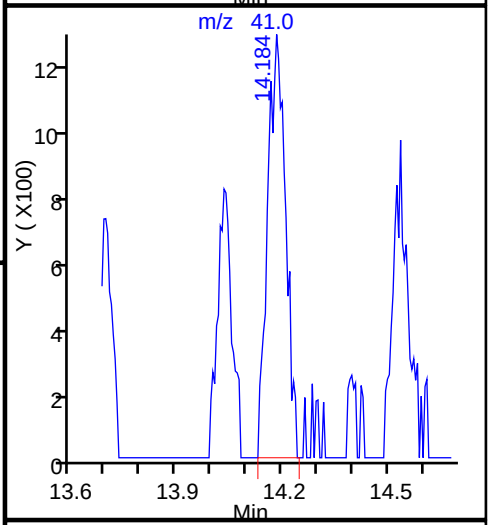
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

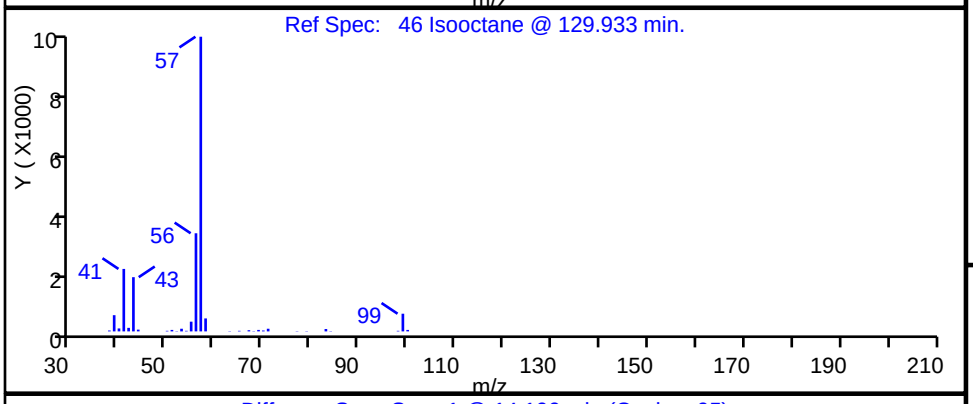
46 Isooctane, CAS: 540-84-1

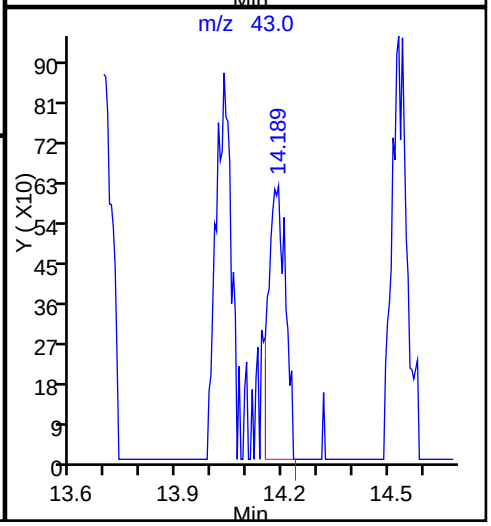


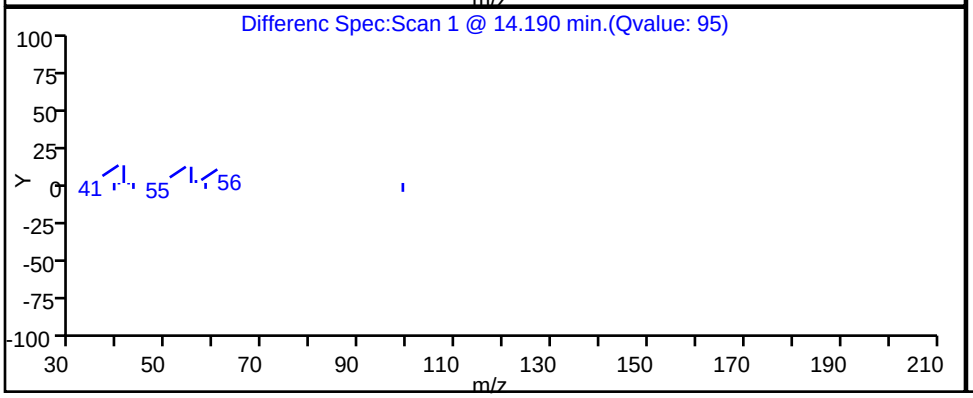












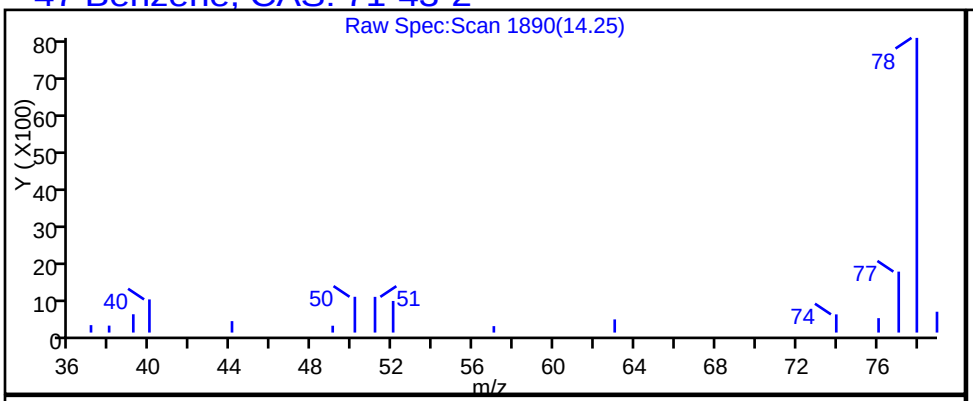
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

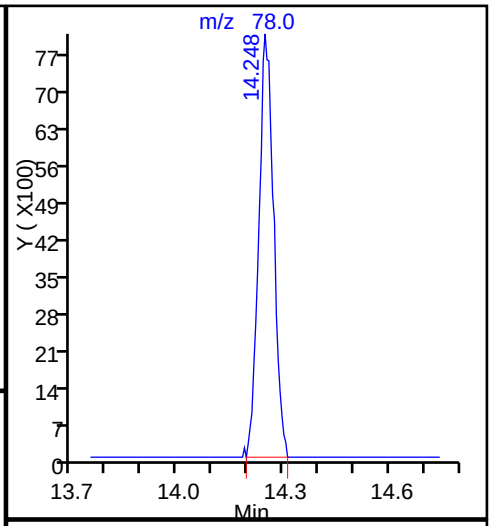
TestAmerica Burlington

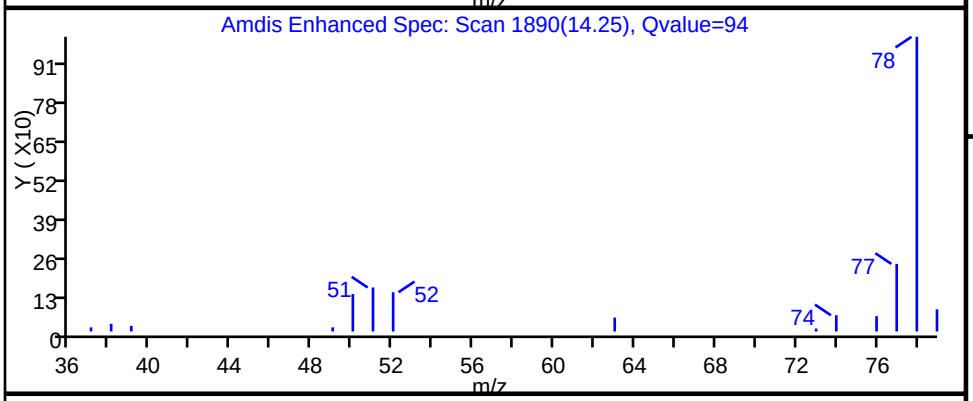
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

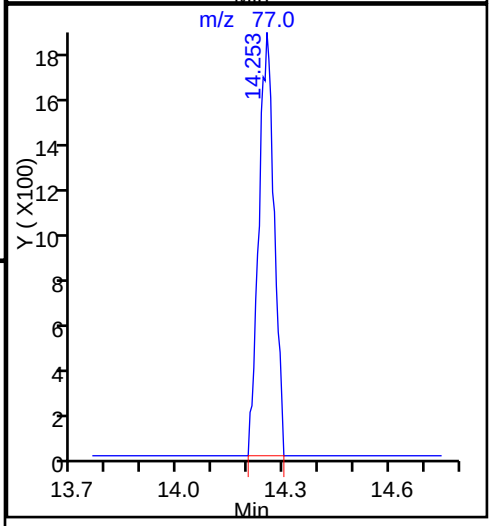
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

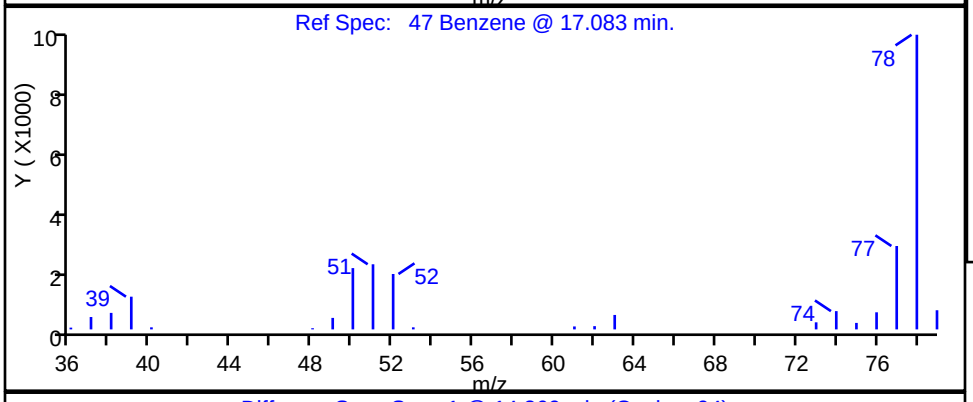
47 Benzene, CAS: 71-43-2

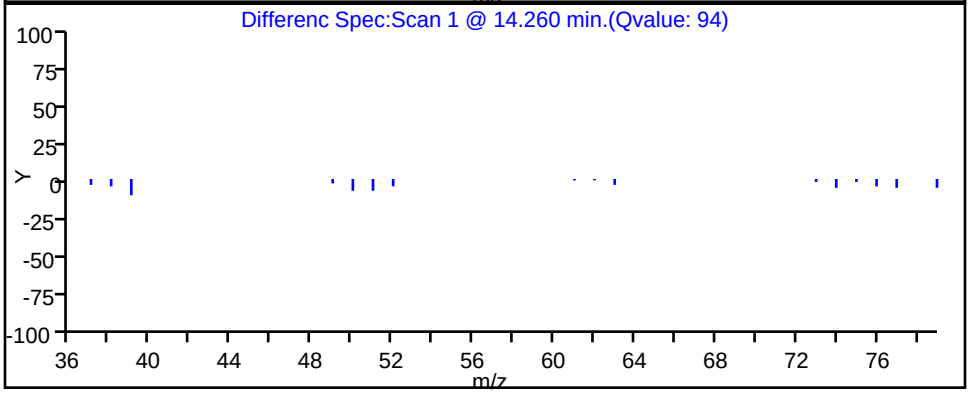












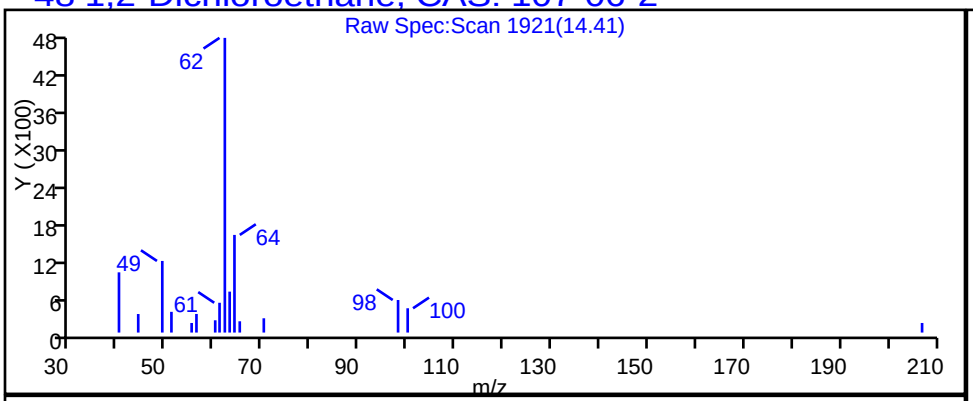
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

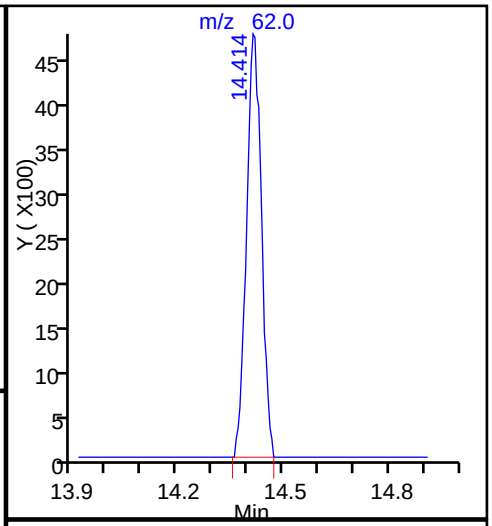
TestAmerica Burlington

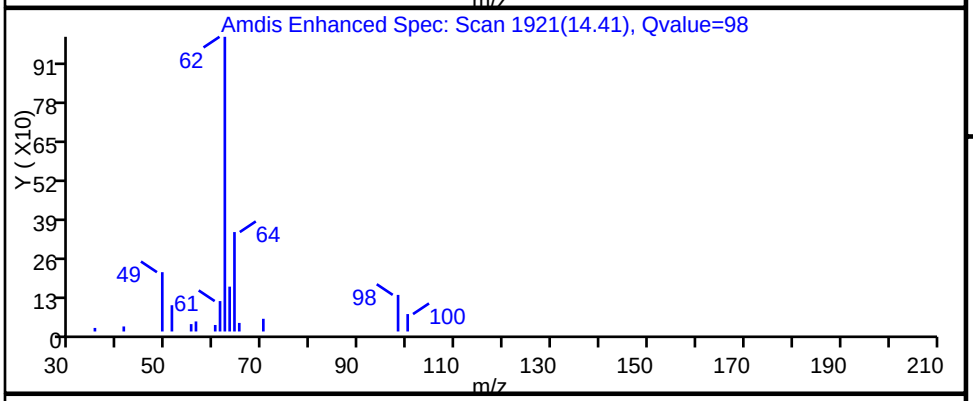
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

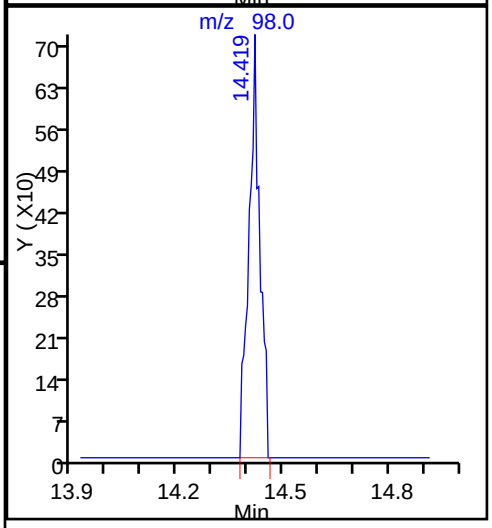
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

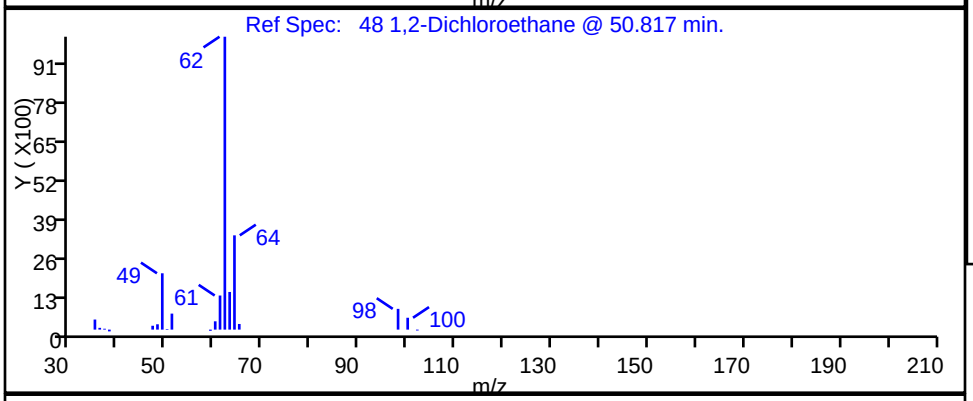
48 1,2-Dichloroethane, CAS: 107-06-2

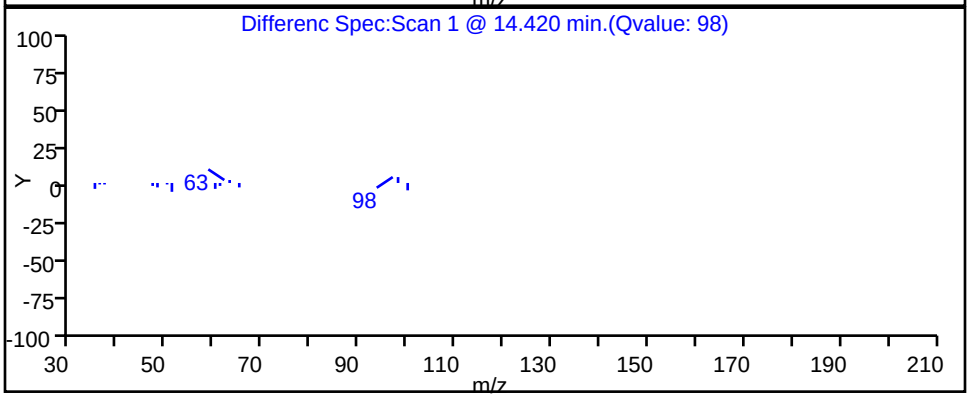












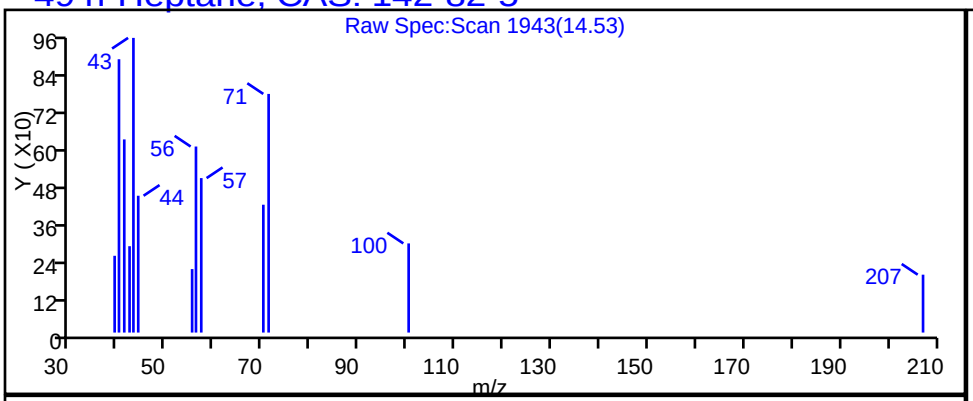
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

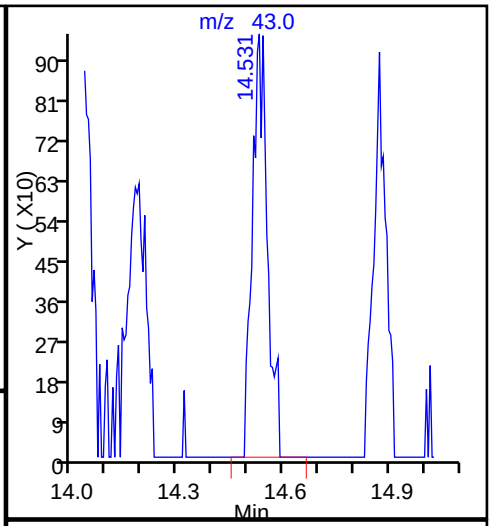
TestAmerica Burlington

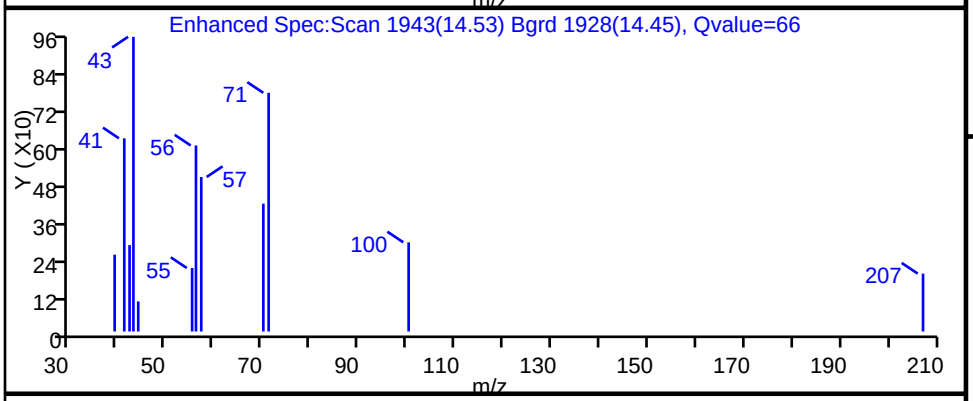
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

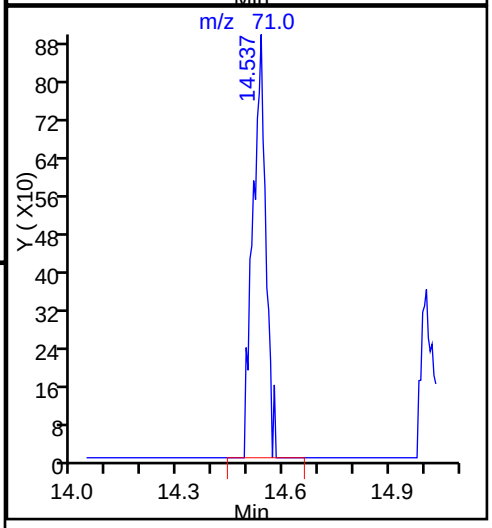
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

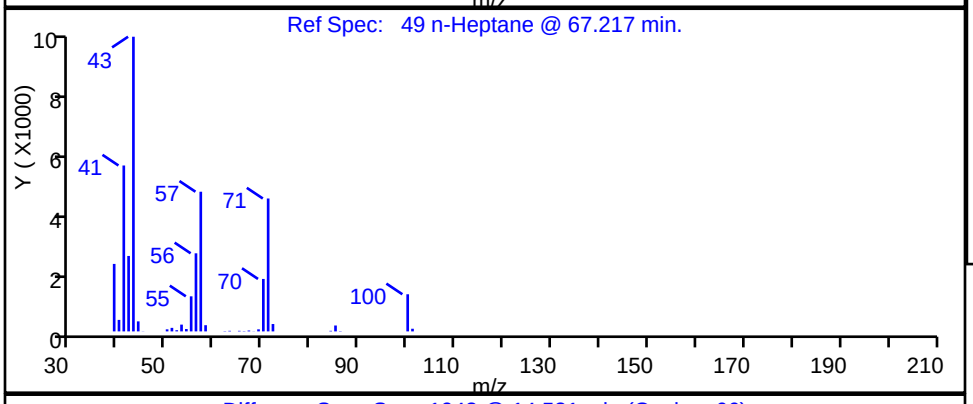
49 n-Heptane, CAS: 142-82-5

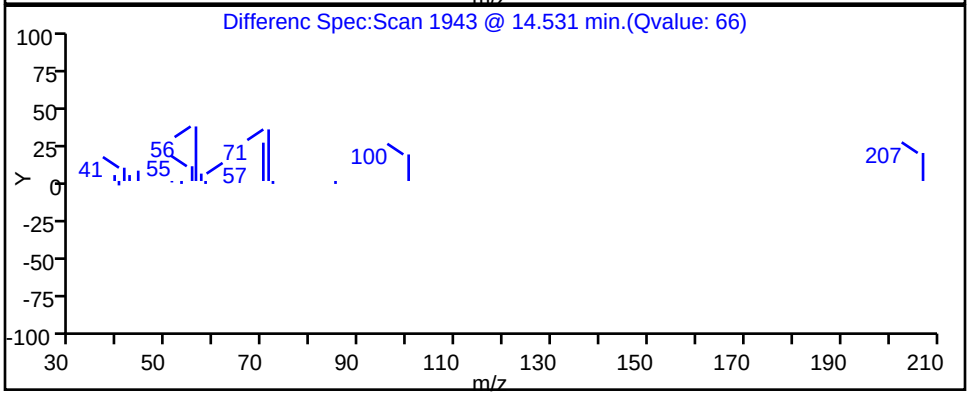












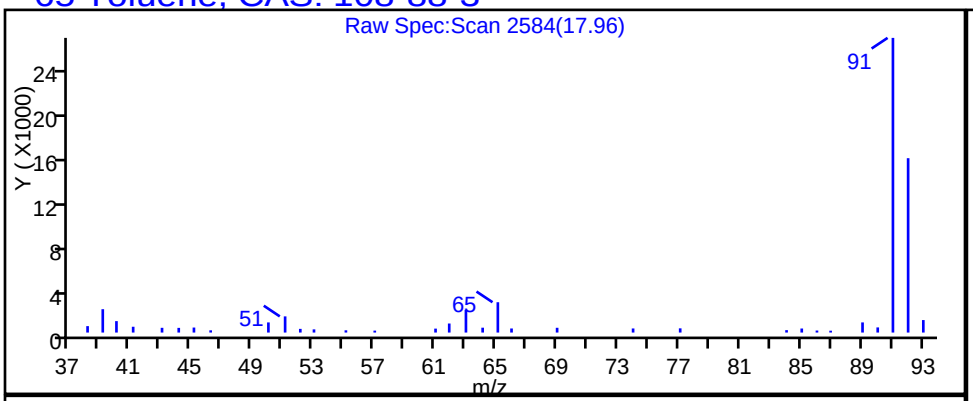
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

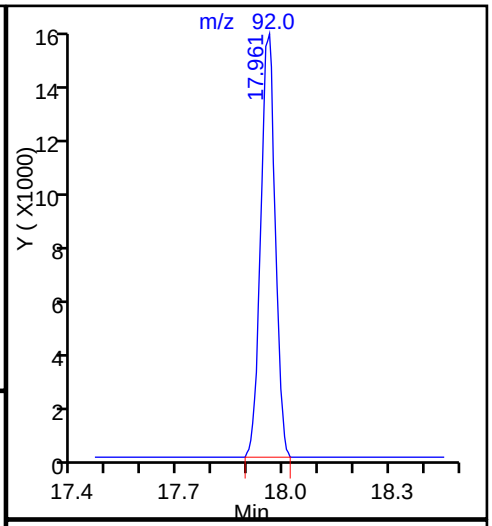
TestAmerica Burlington

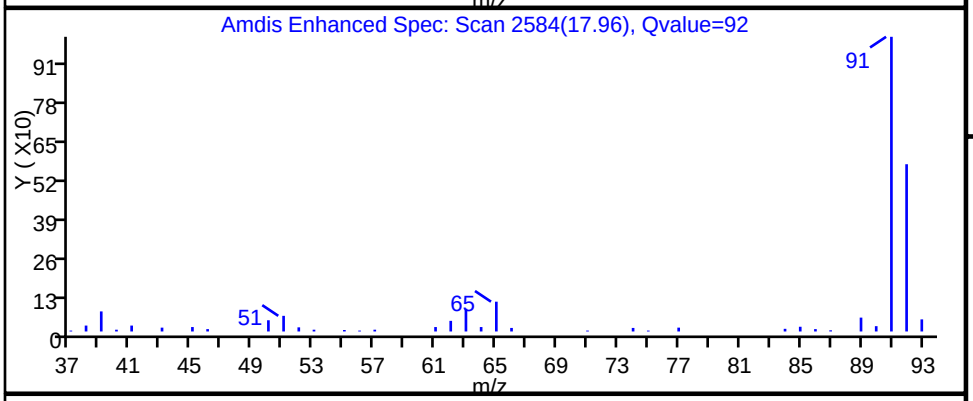
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

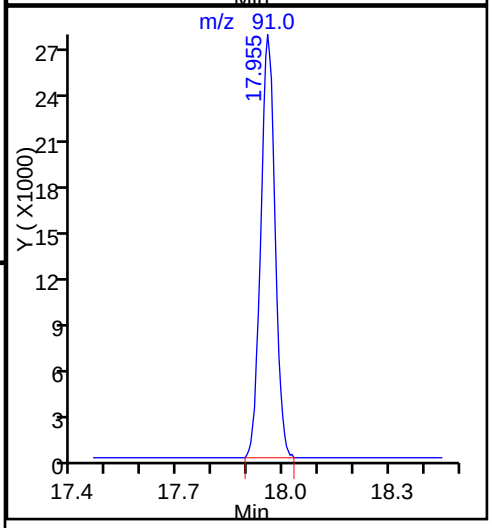
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

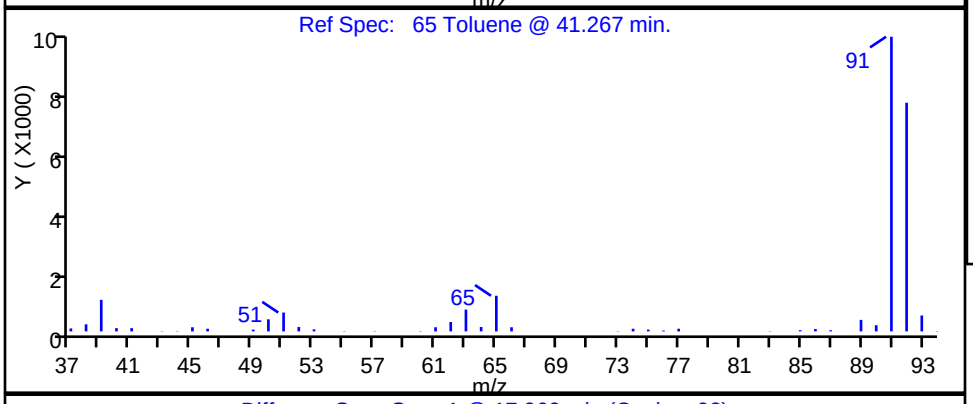
65 Toluene, CAS: 108-88-3

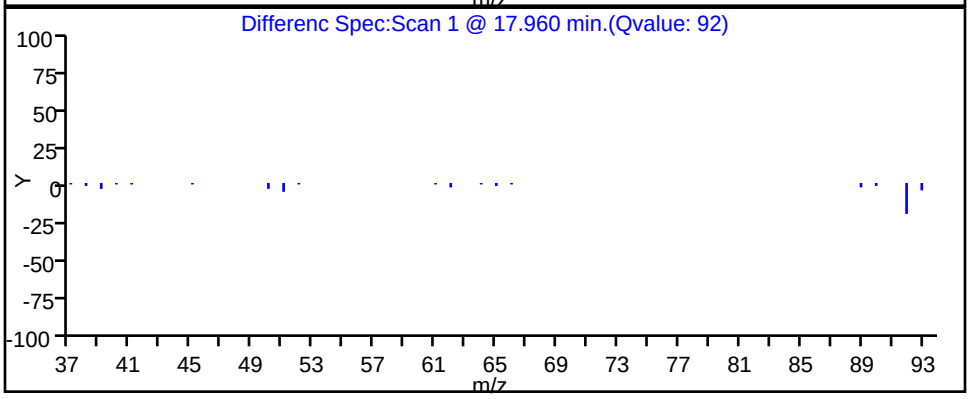












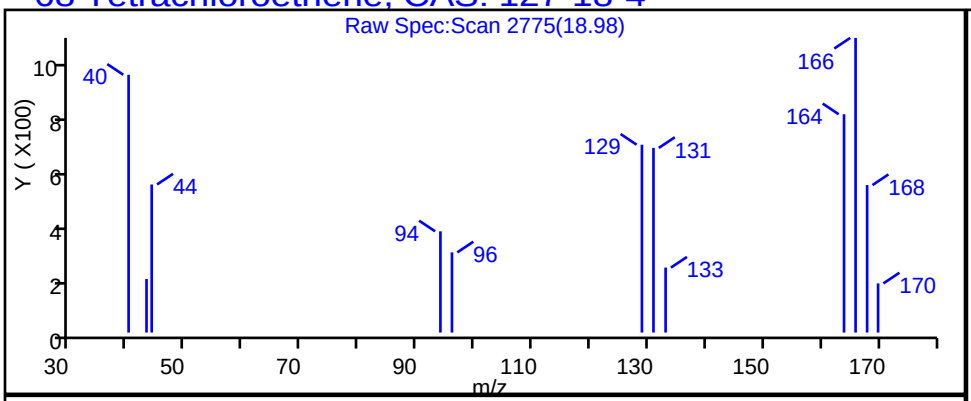
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

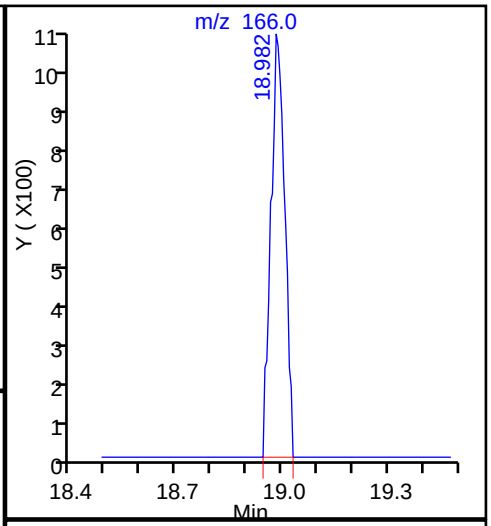
TestAmerica Burlington

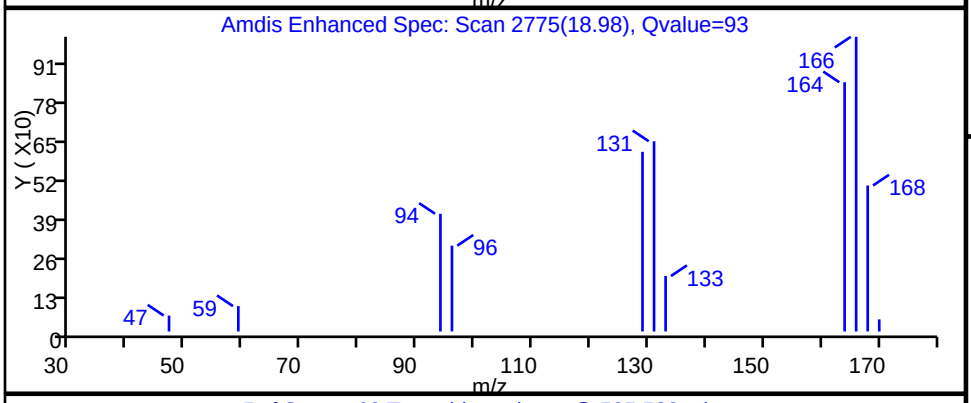
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

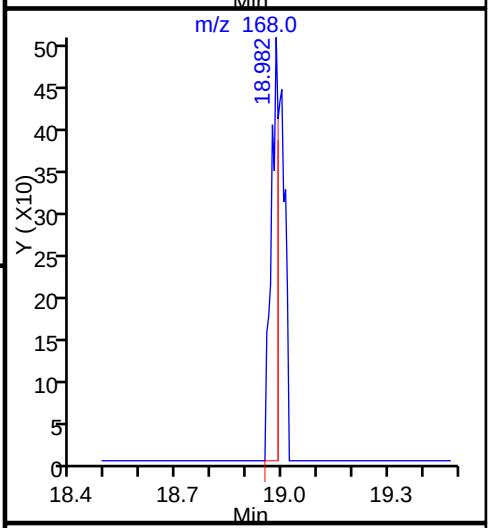
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

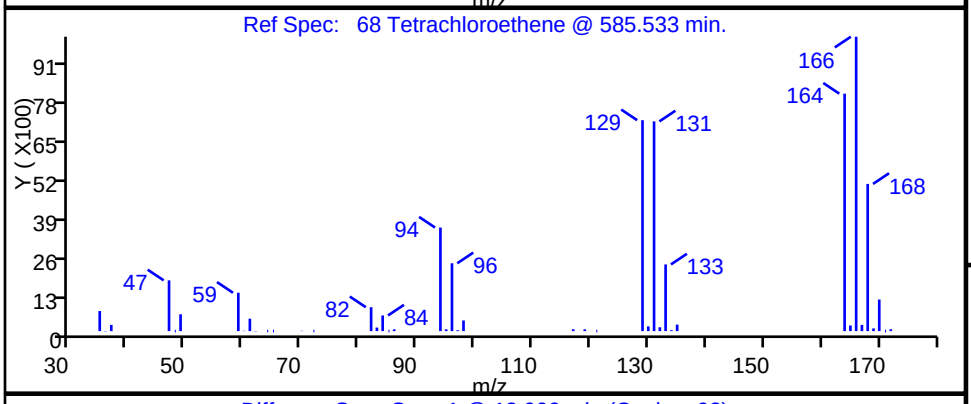
68 Tetrachloroethene, CAS: 127-18-4

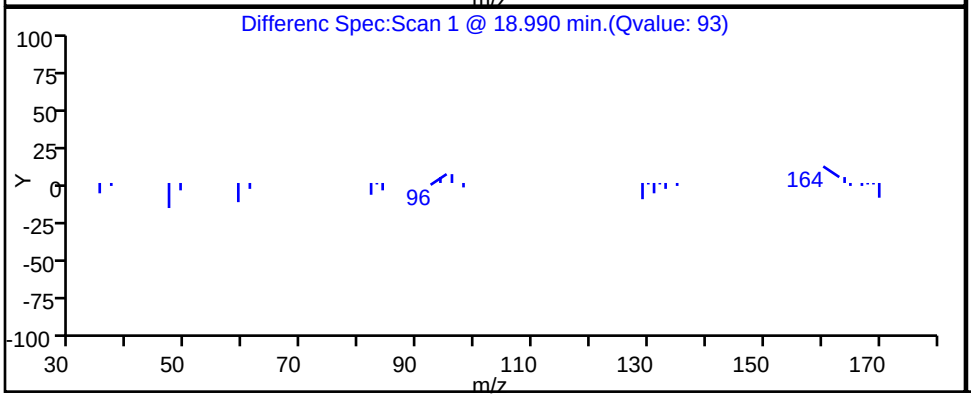


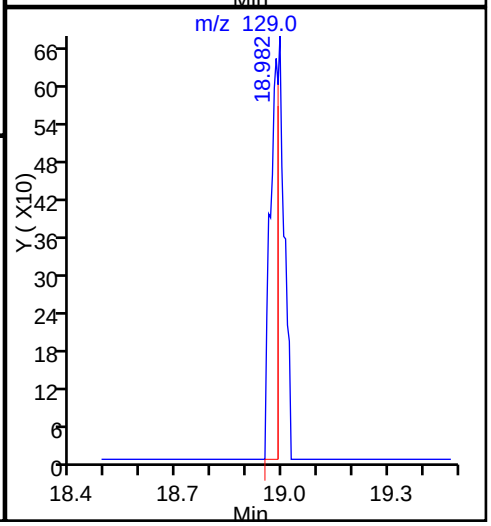












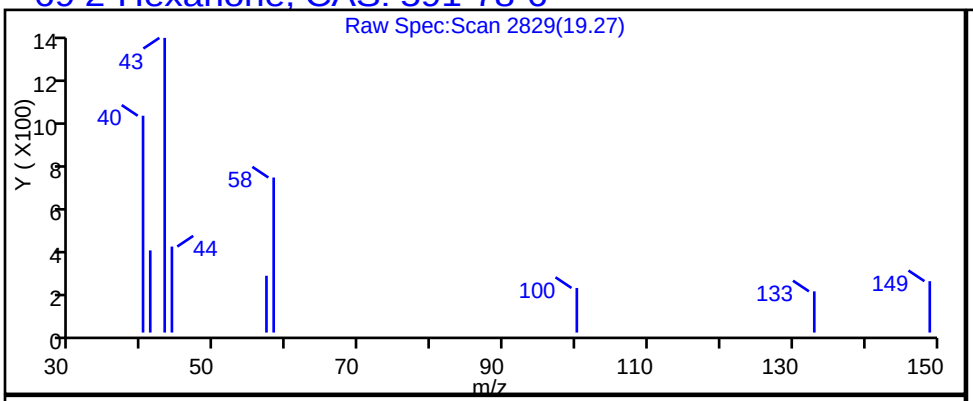
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

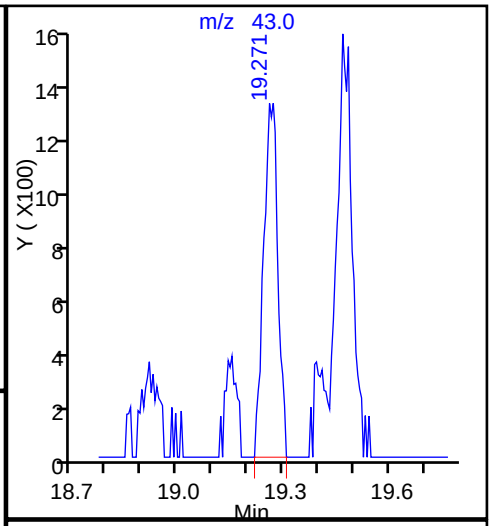
TestAmerica Burlington

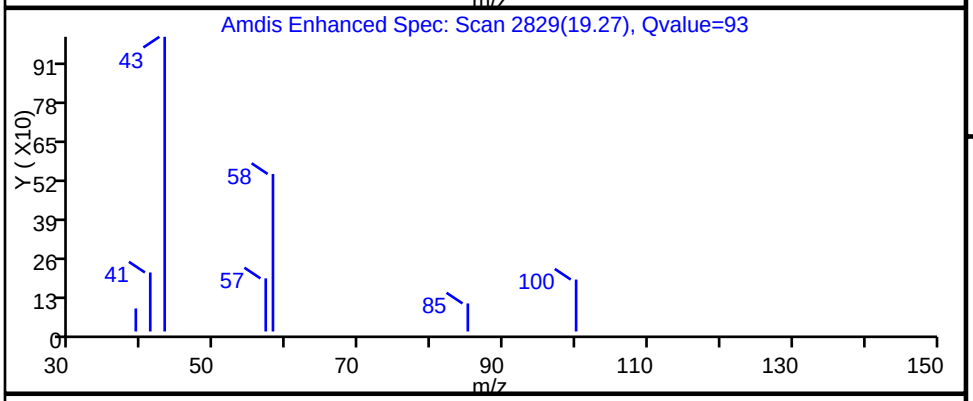
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

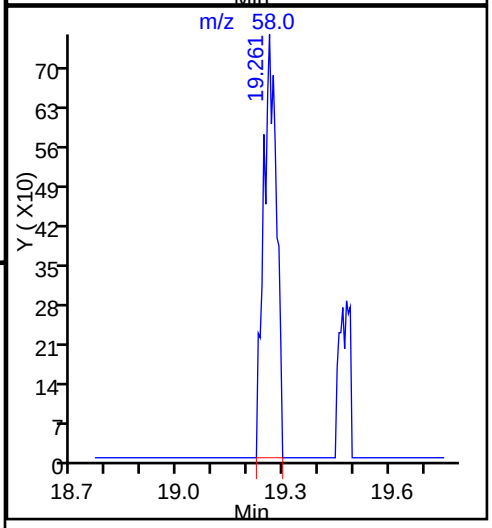
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

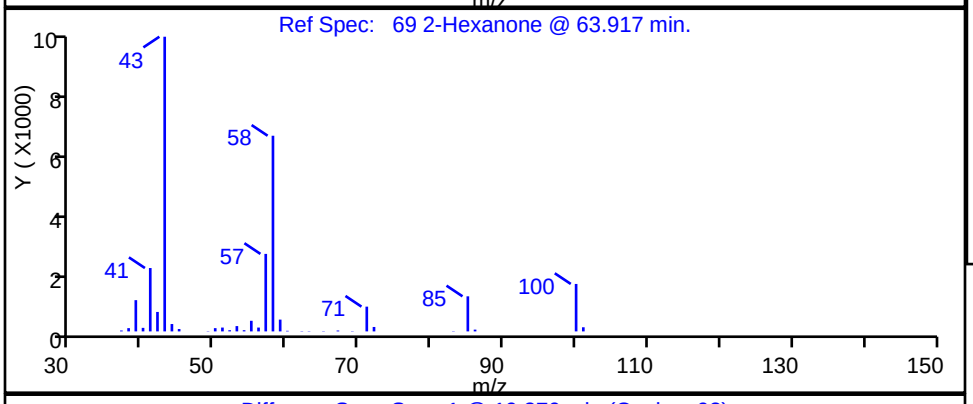
69 2-Hexanone, CAS: 591-78-6

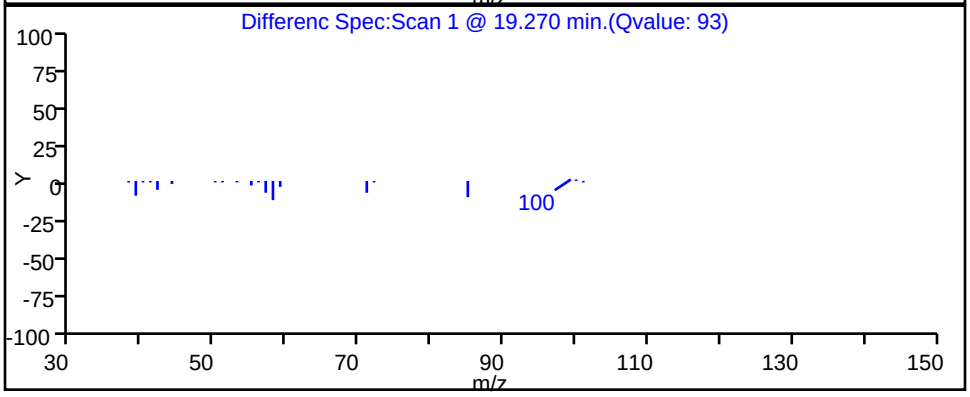












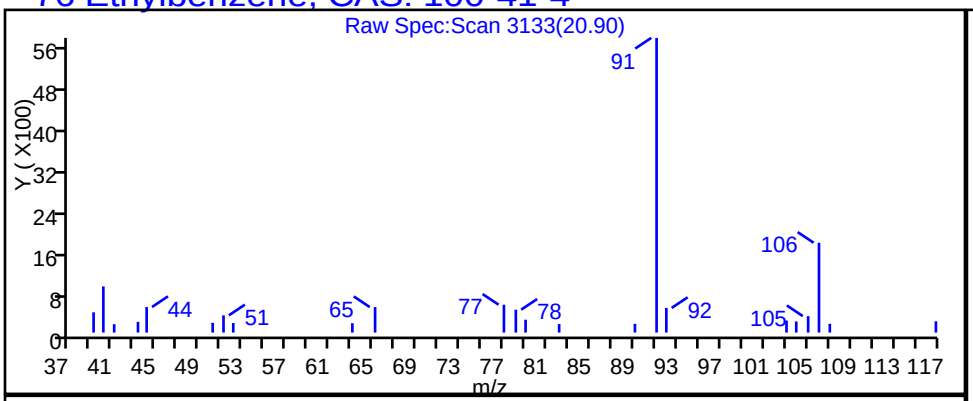
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

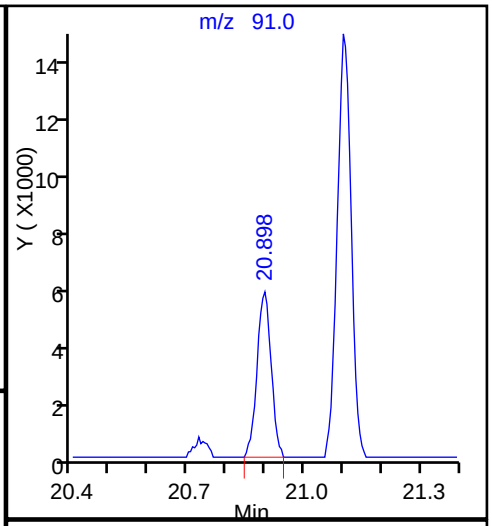
TestAmerica Burlington

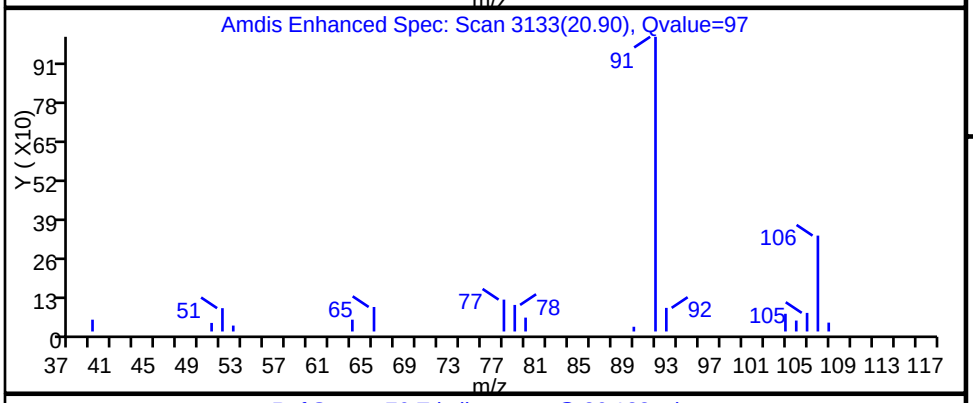
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

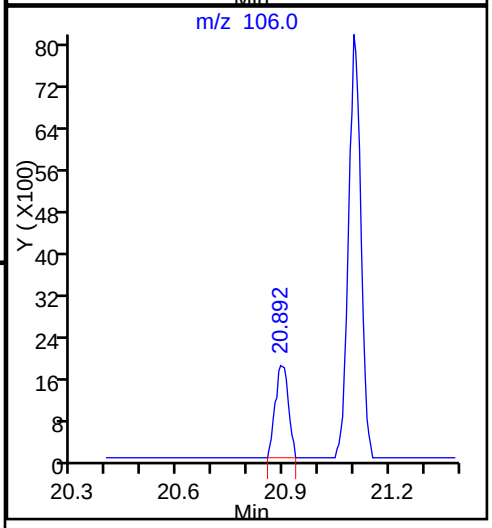
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

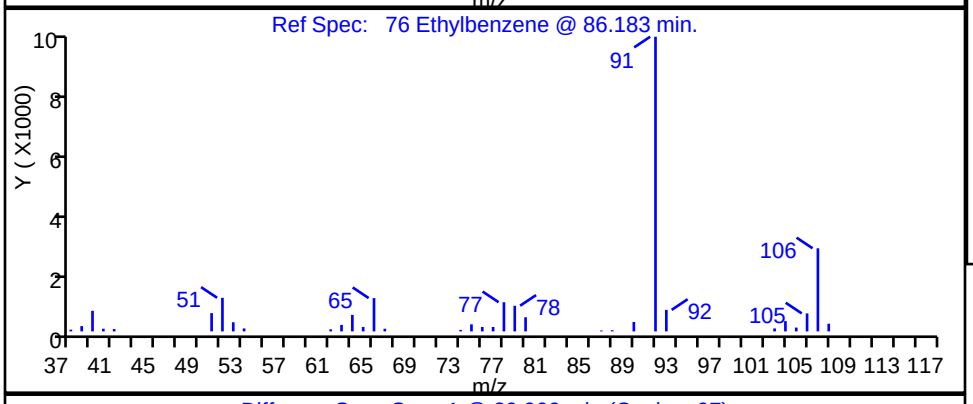
76 Ethylbenzene, CAS: 100-41-4

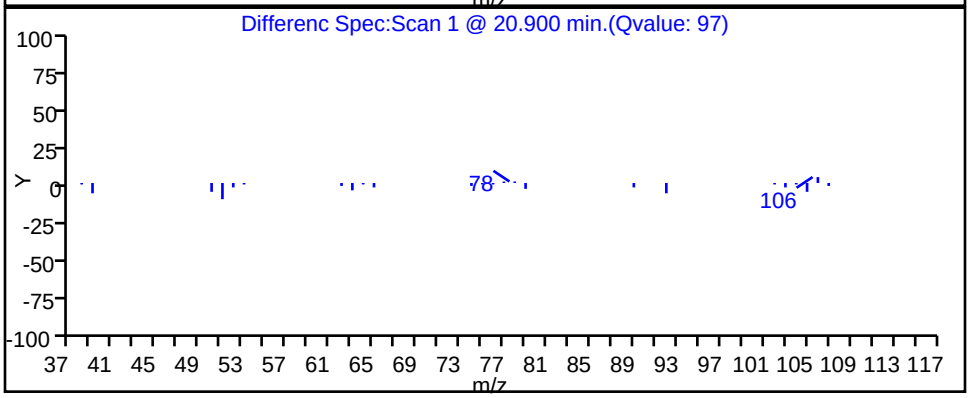












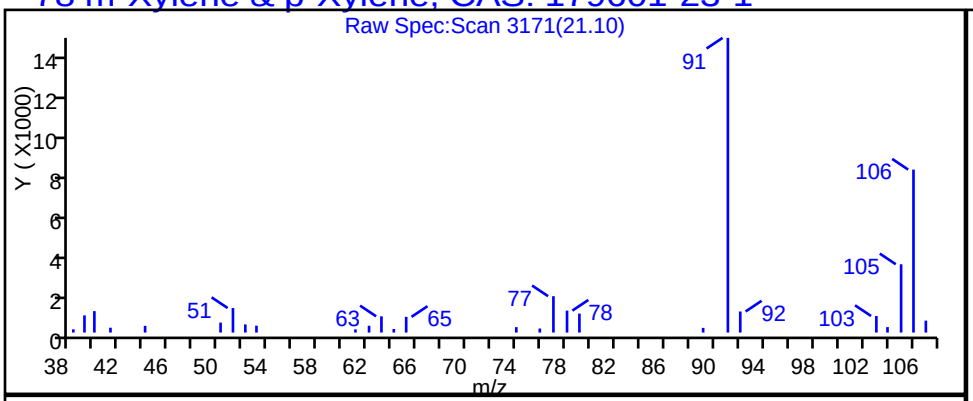
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

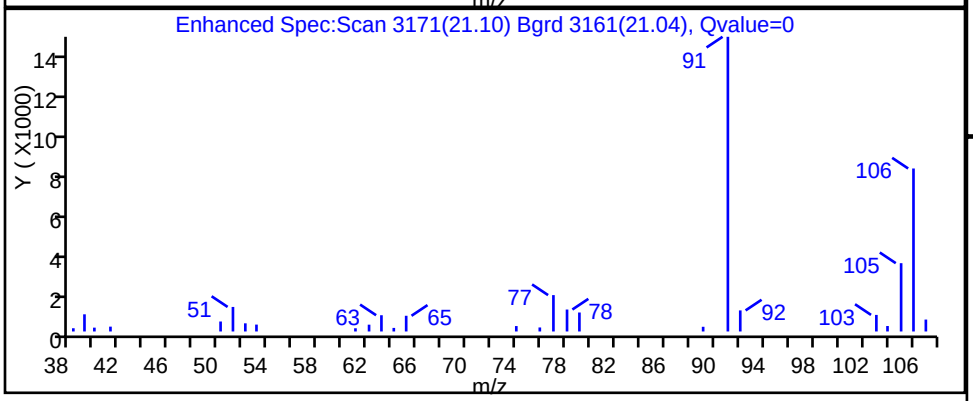
TestAmerica Burlington

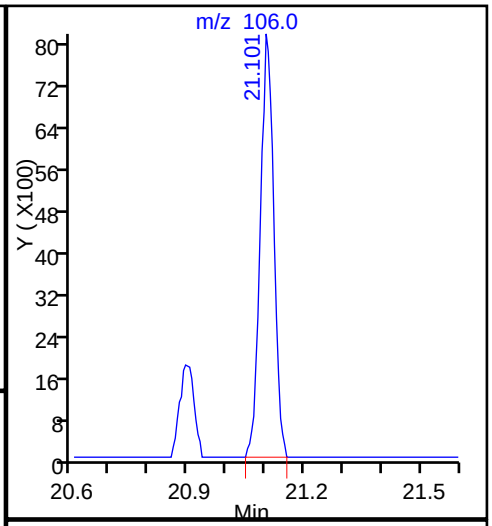
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

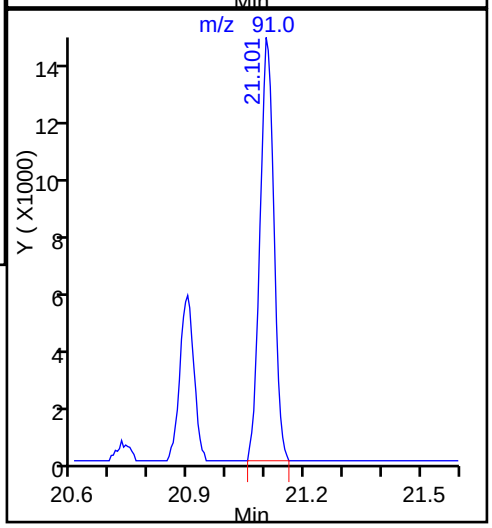
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









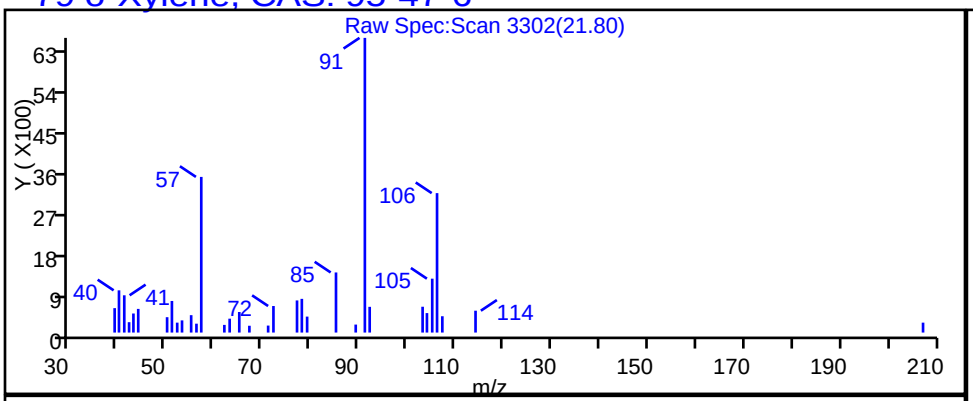
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

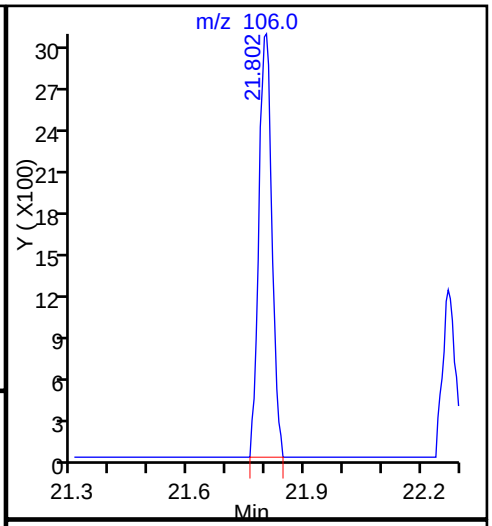
TestAmerica Burlington

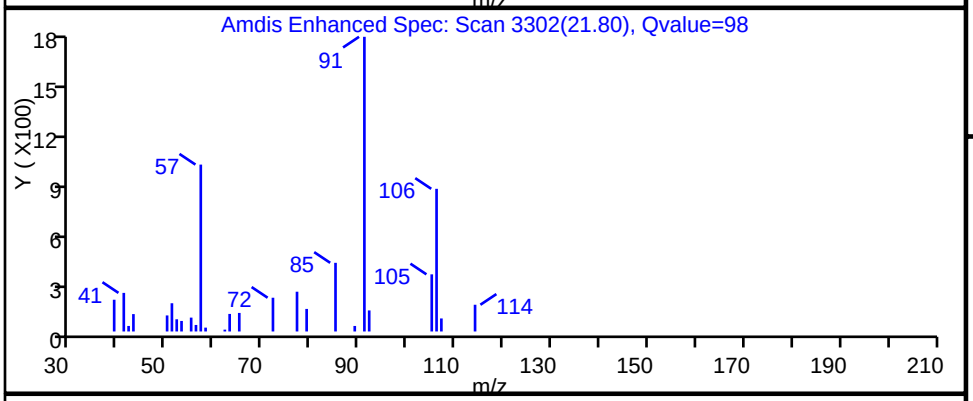
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

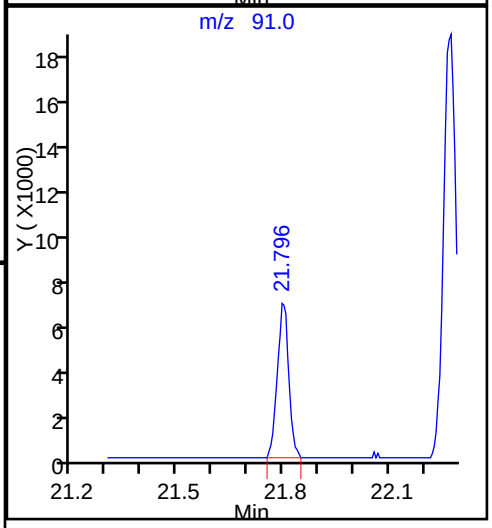
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

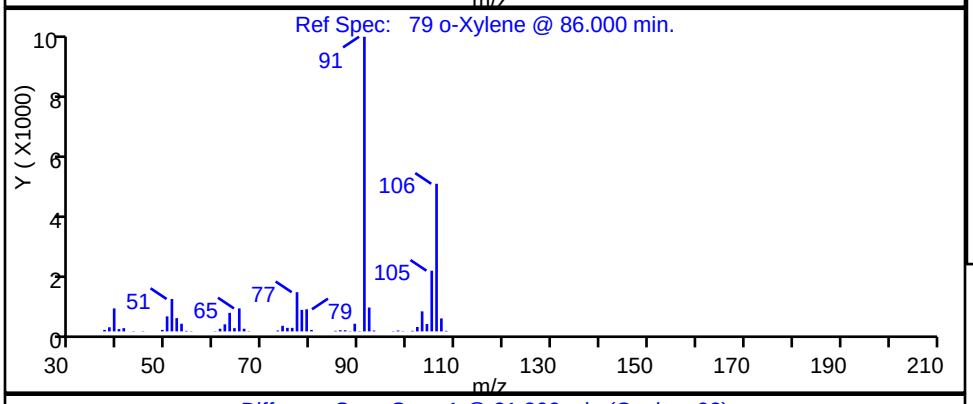
79 o-Xylene, CAS: 95-47-6

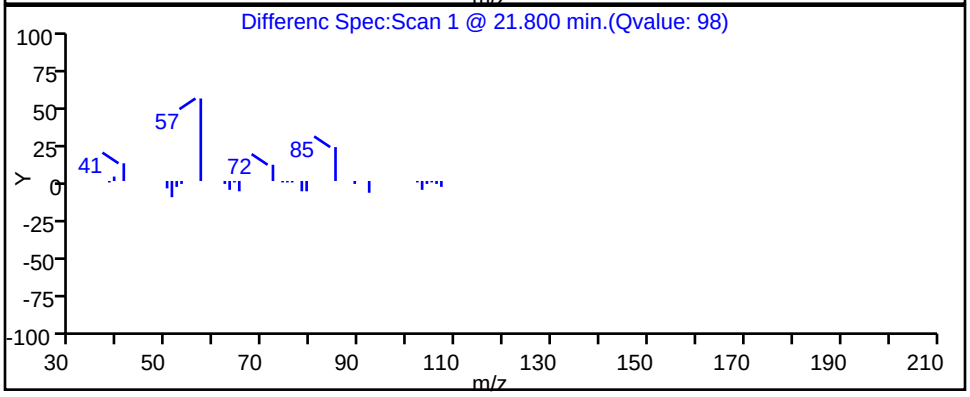












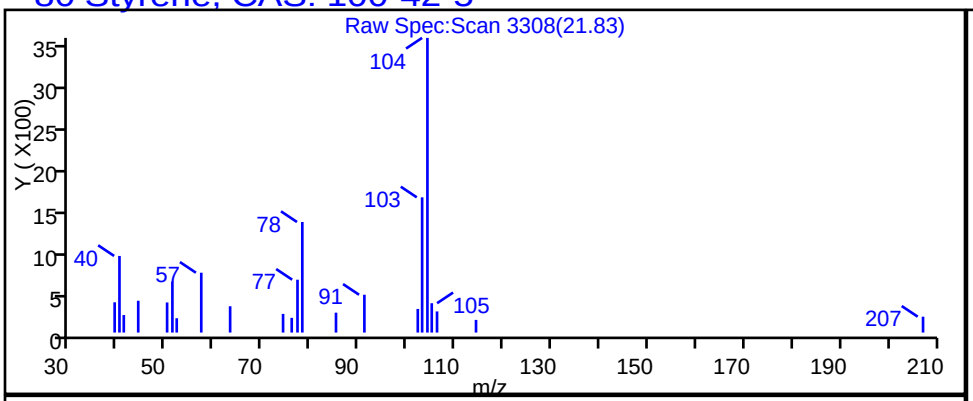
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

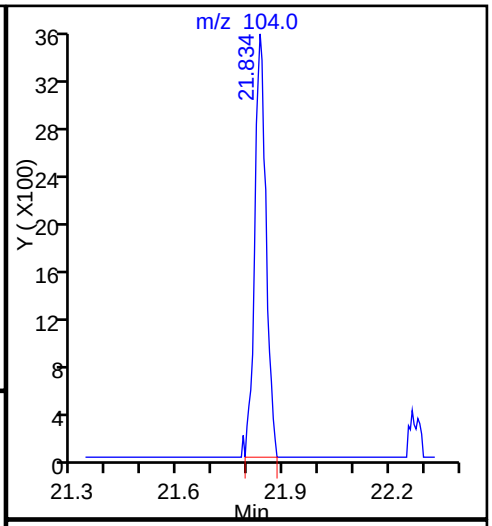
TestAmerica Burlington

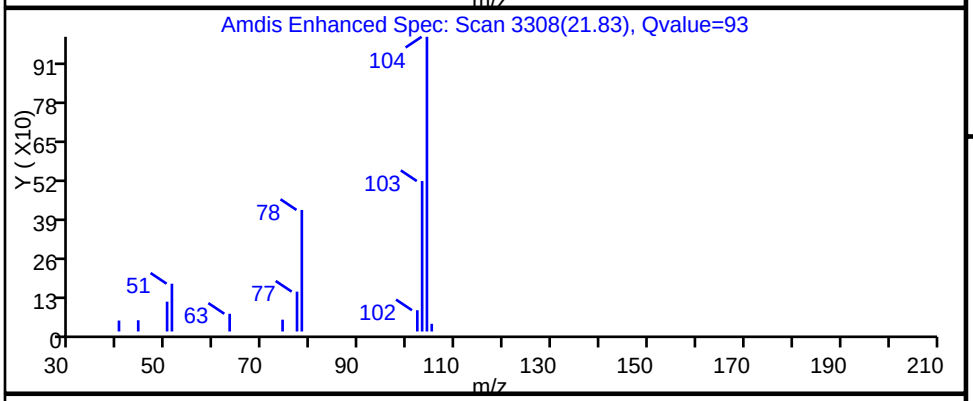
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

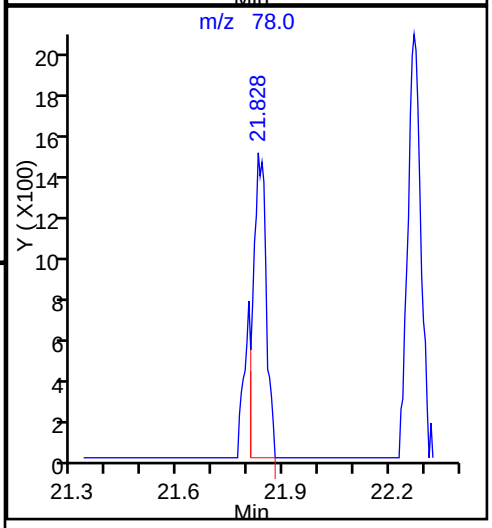
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

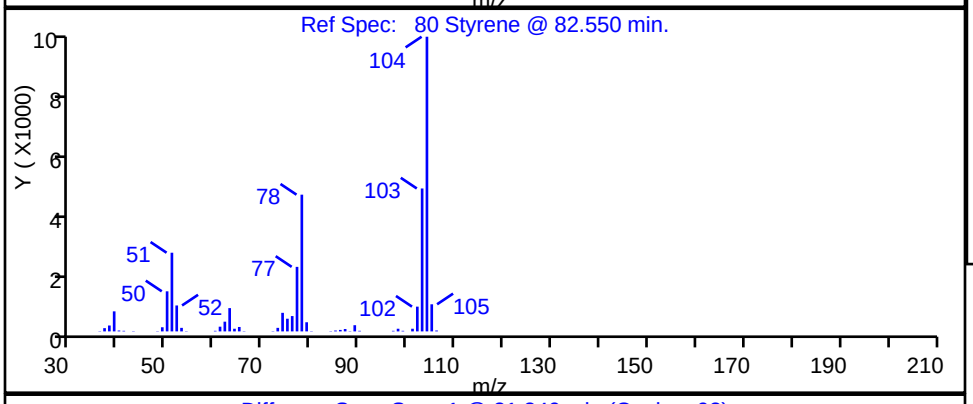
80 Styrene, CAS: 100-42-5

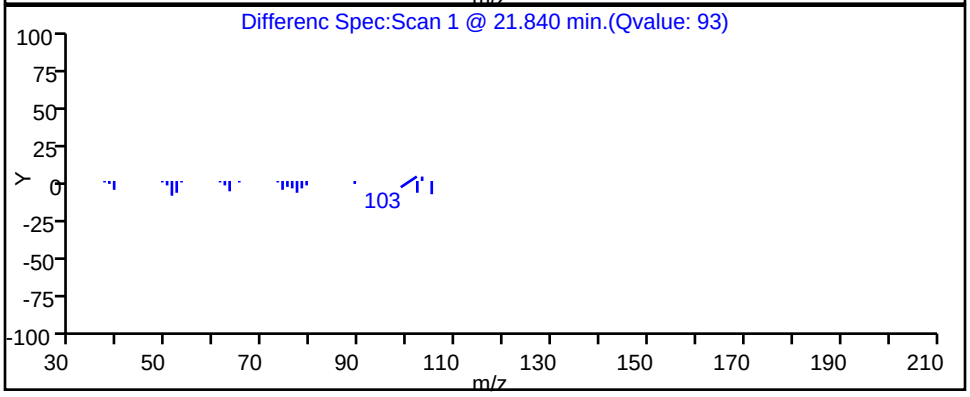










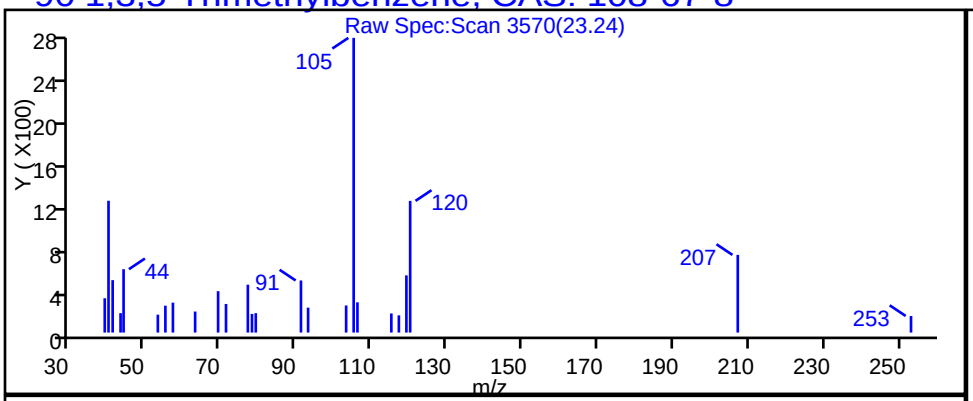


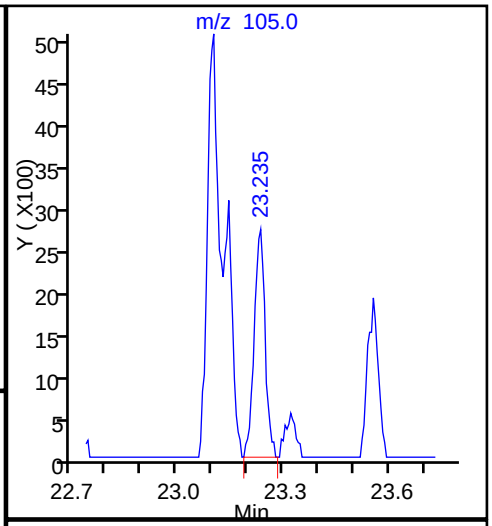
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

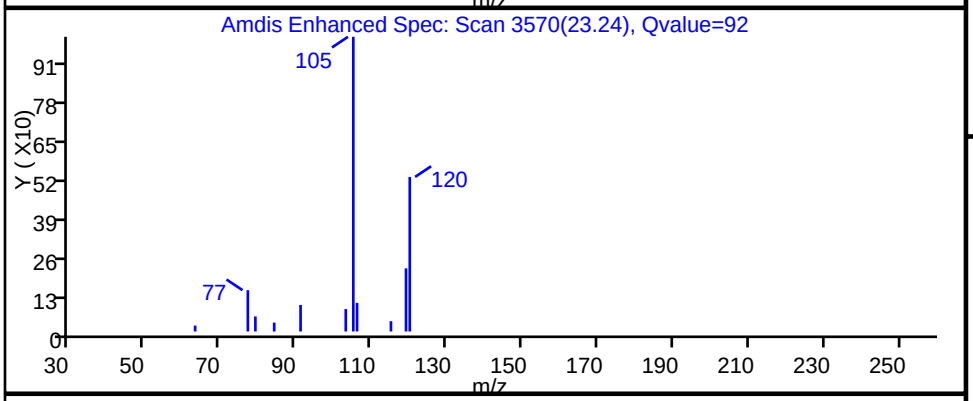
TestAmerica Burlington

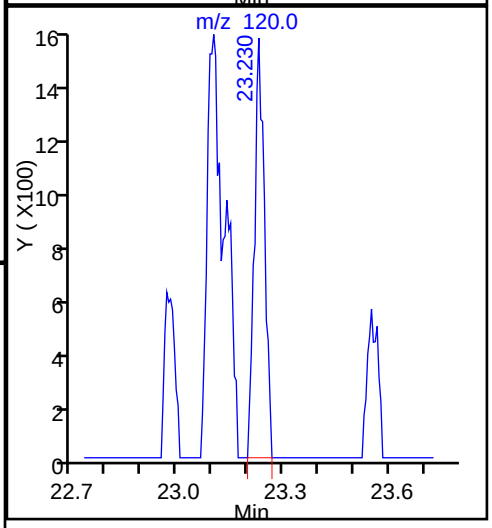
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

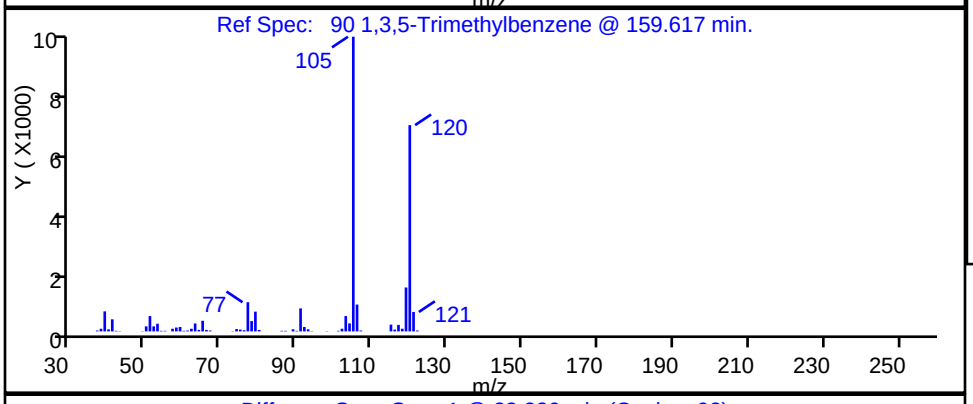
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

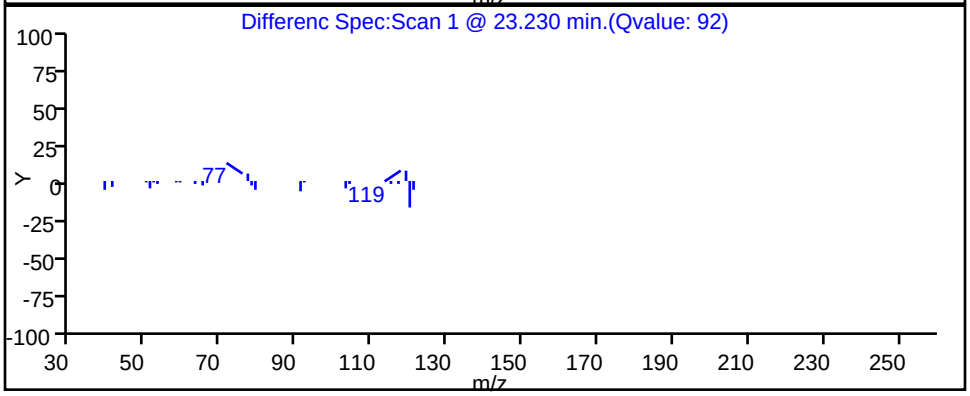










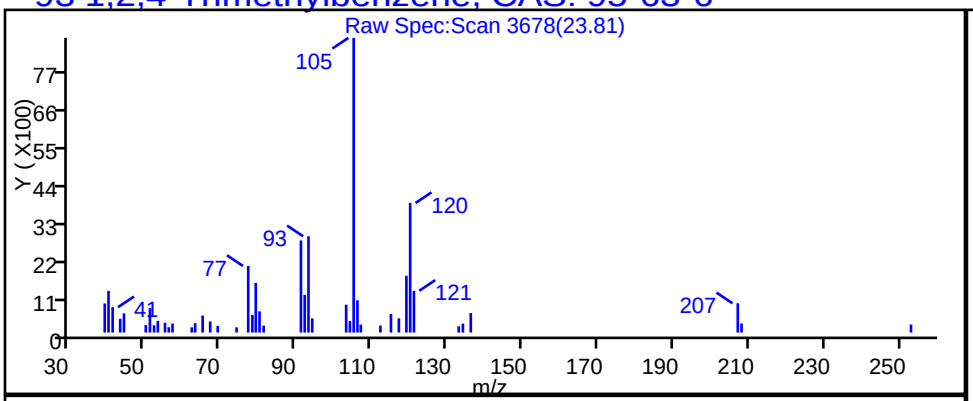


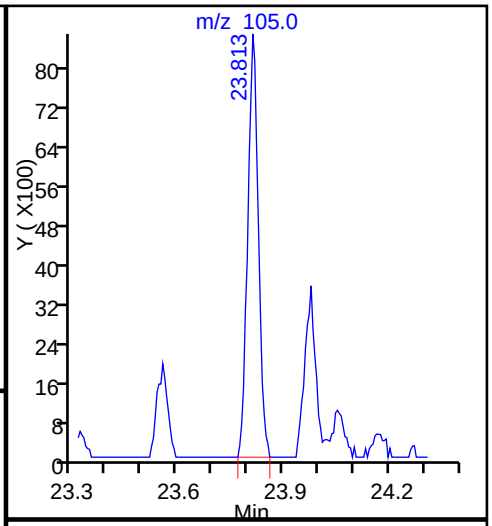
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

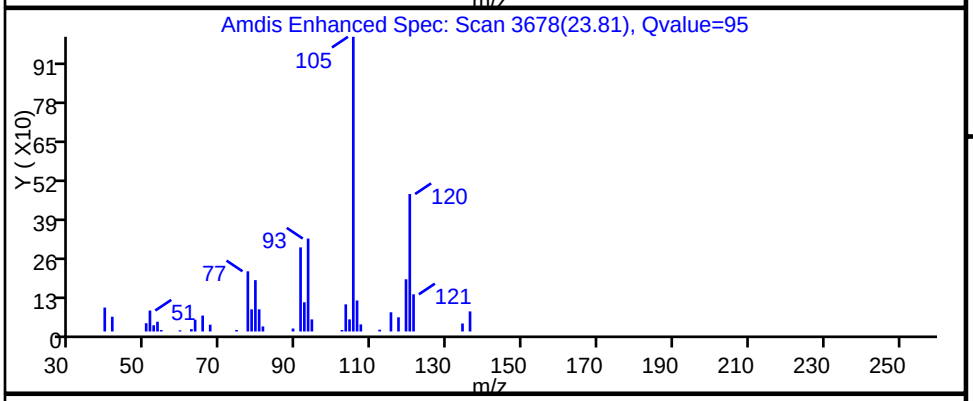
TestAmerica Burlington

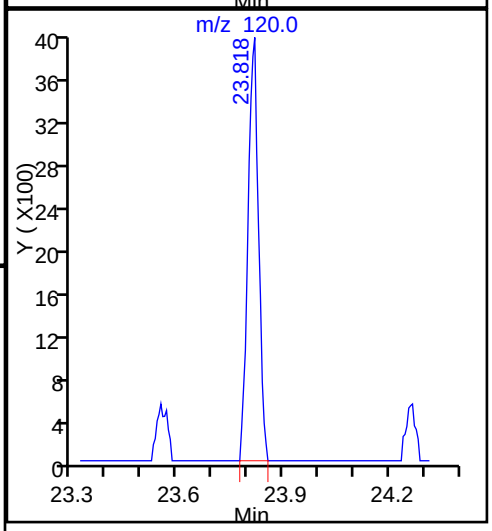
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

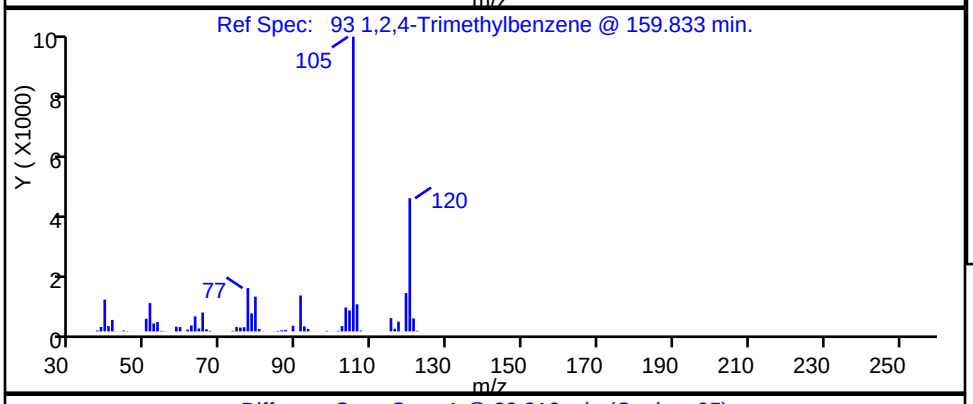
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

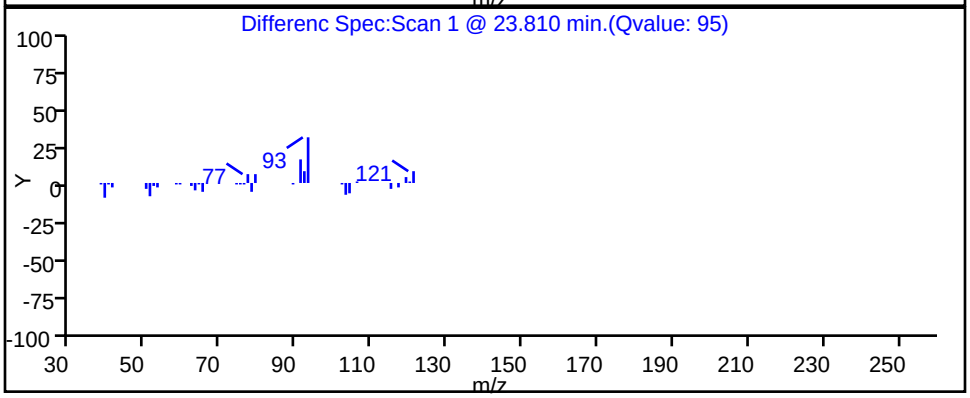












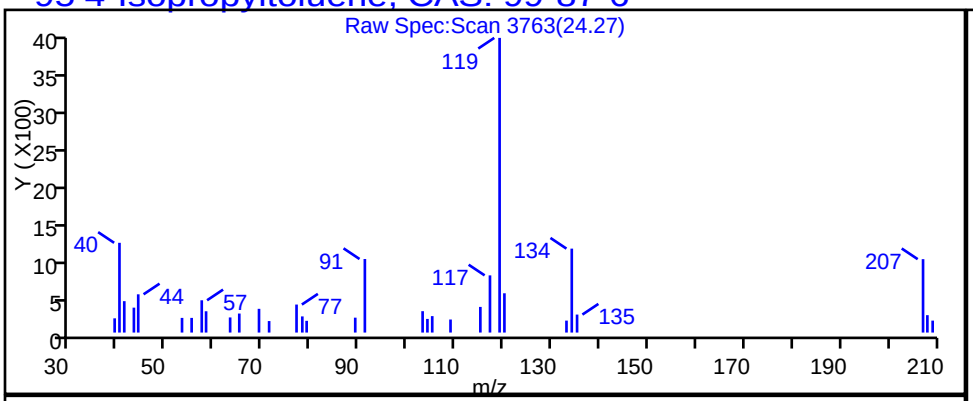
Report Date: 01-Oct-2015 12:53:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

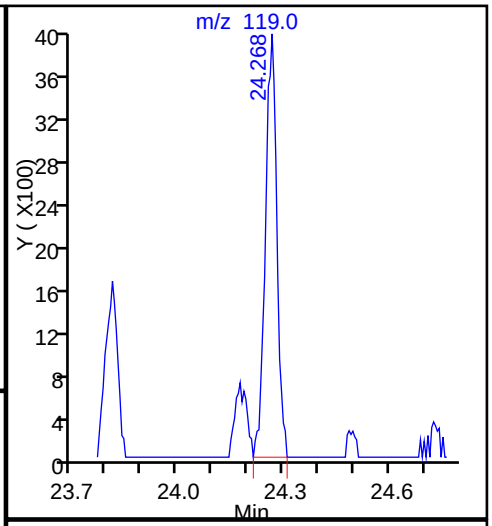
TestAmerica Burlington

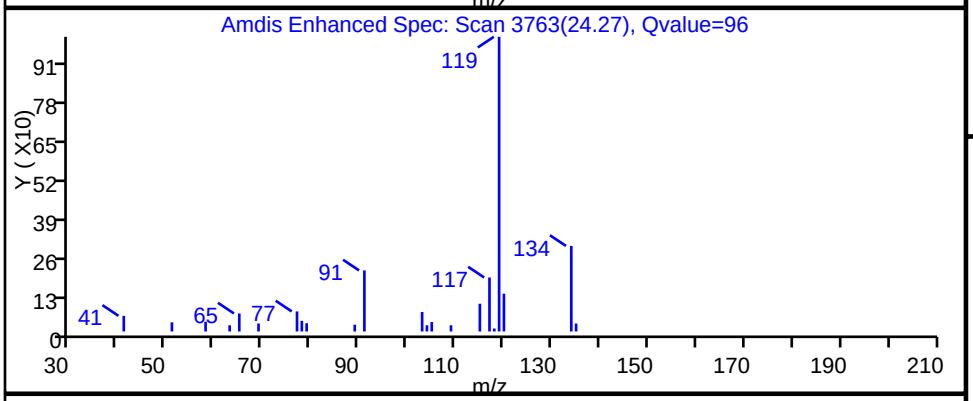
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

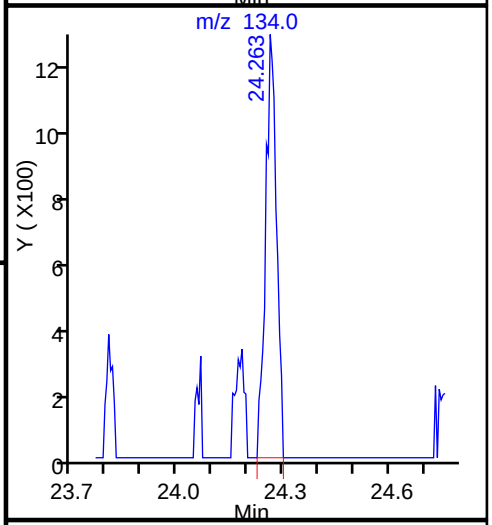
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

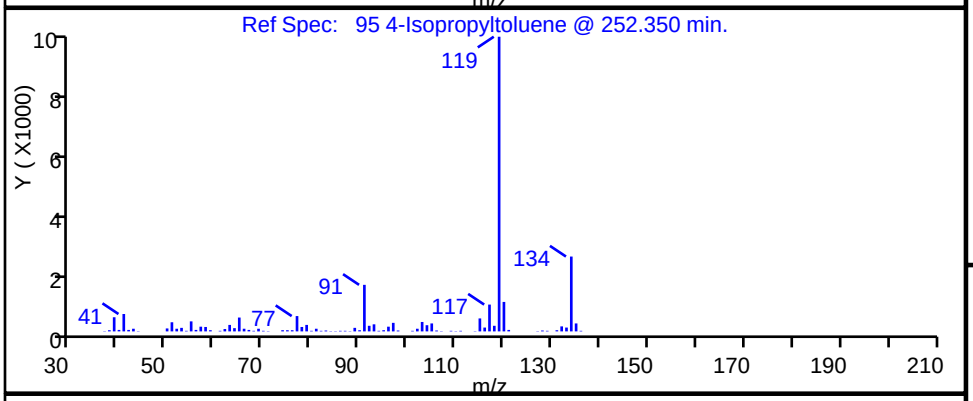
95 4-Isopropyltoluene, CAS: 99-87-6

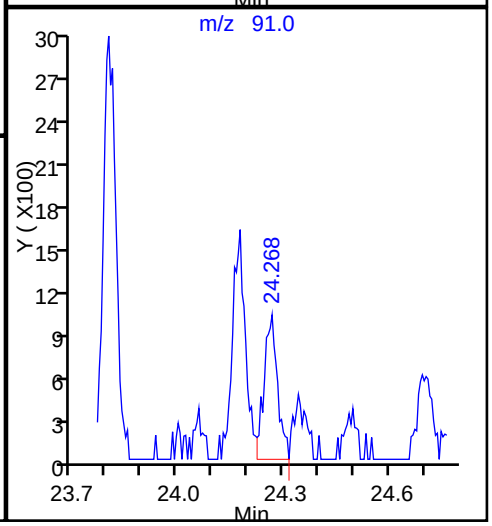


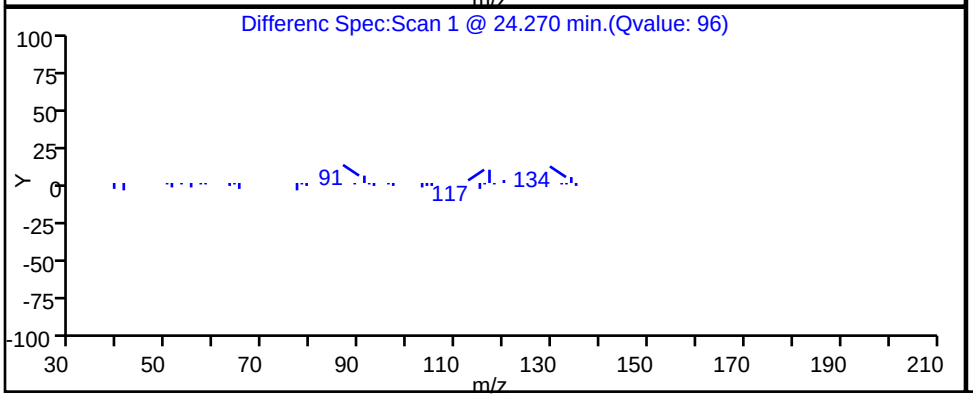












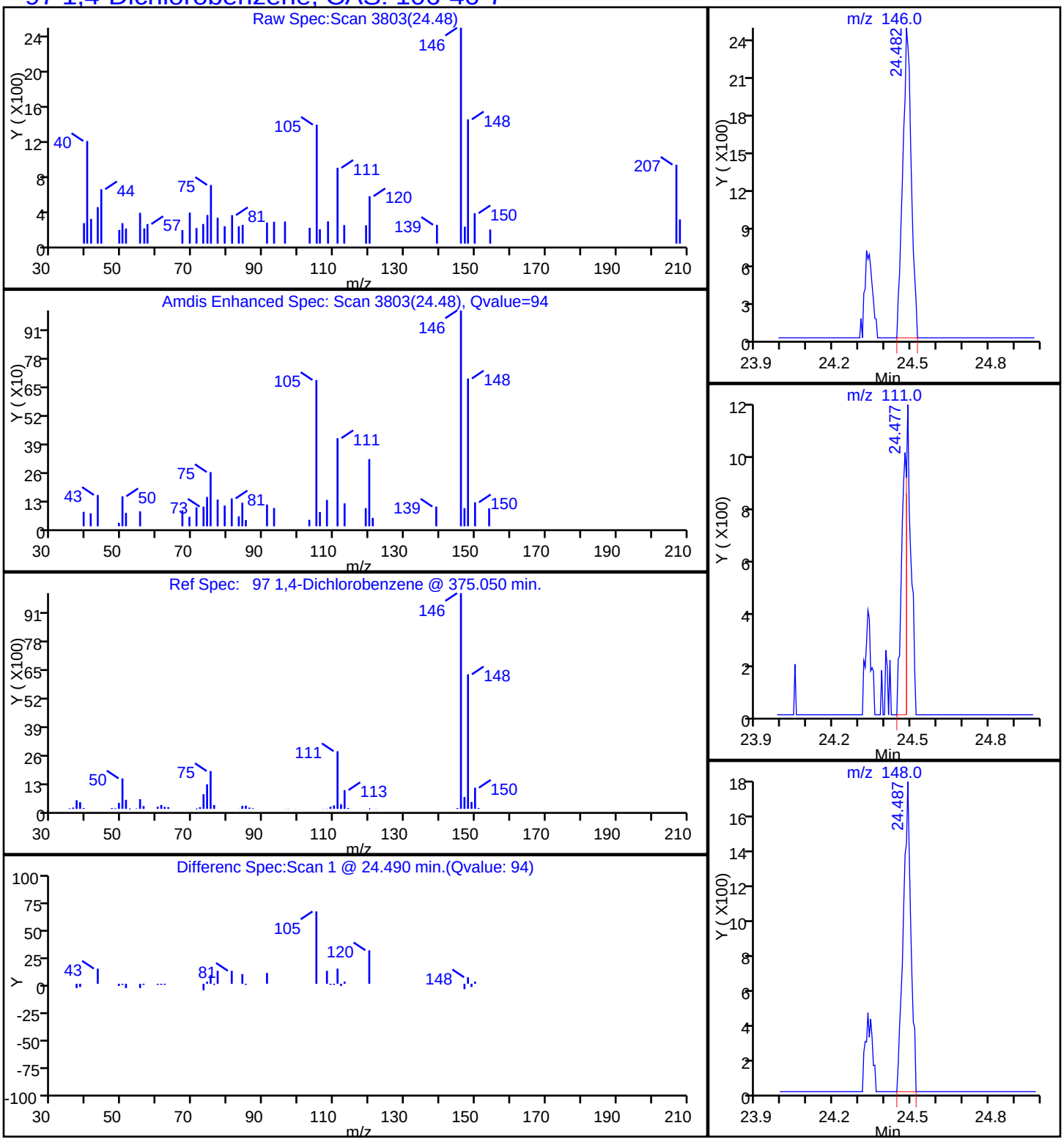
Report Date: 01-Oct-2015 12:53:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



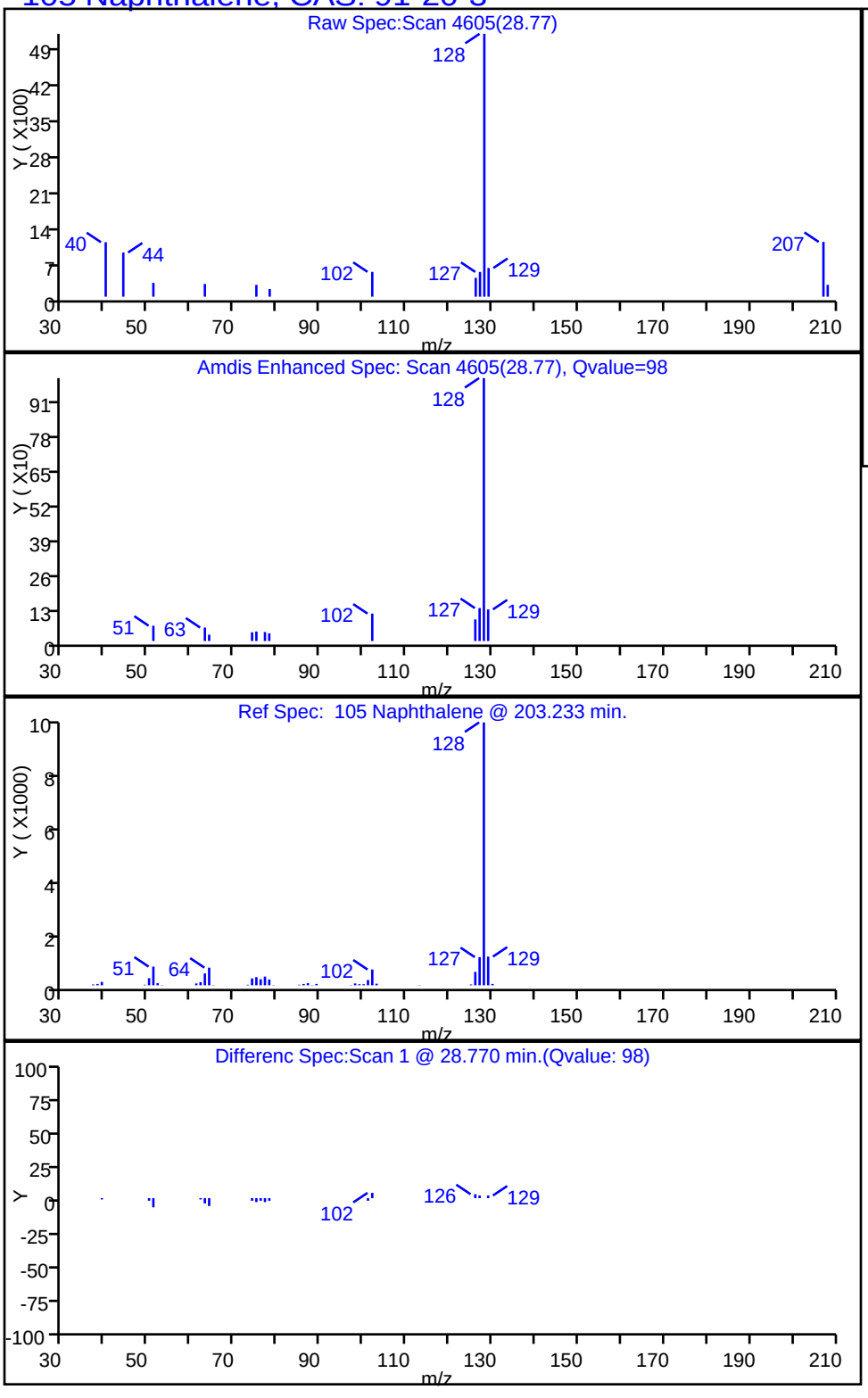
Report Date: 01-Oct-2015 12:53:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

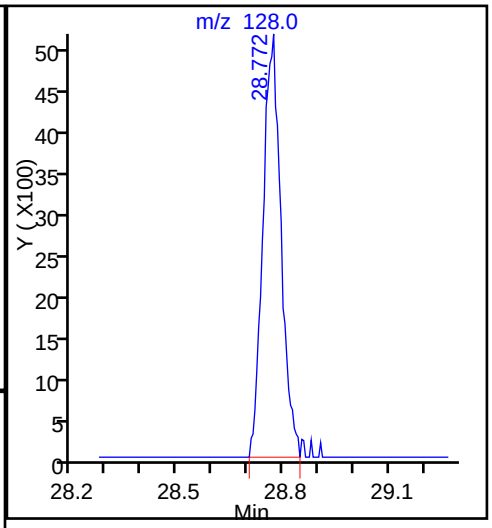
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d

Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

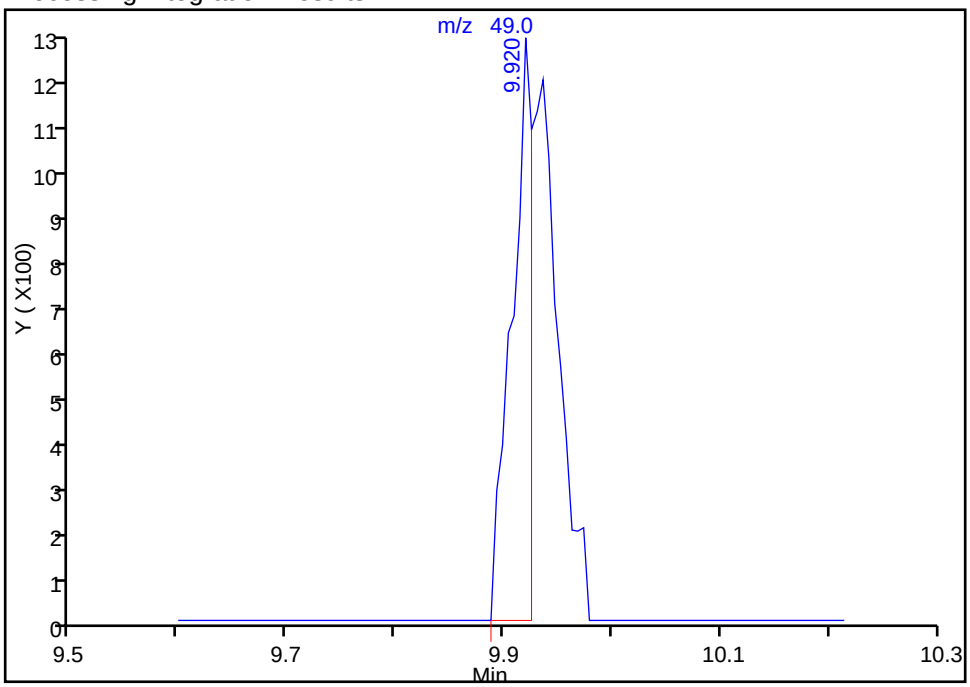
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

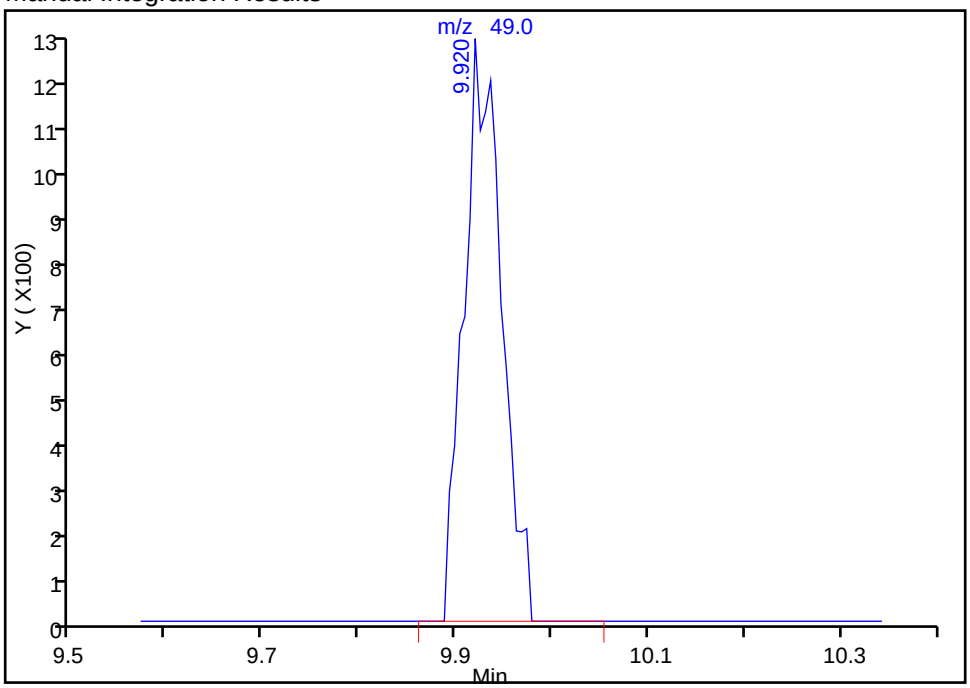
Processing Integration Results

RT: 9.92
Area: 1595
Amount: 0.112456
Amount Units: ppb v/v



Manual Integration Results

RT: 9.92
Area: 3302
Amount: 0.232808
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

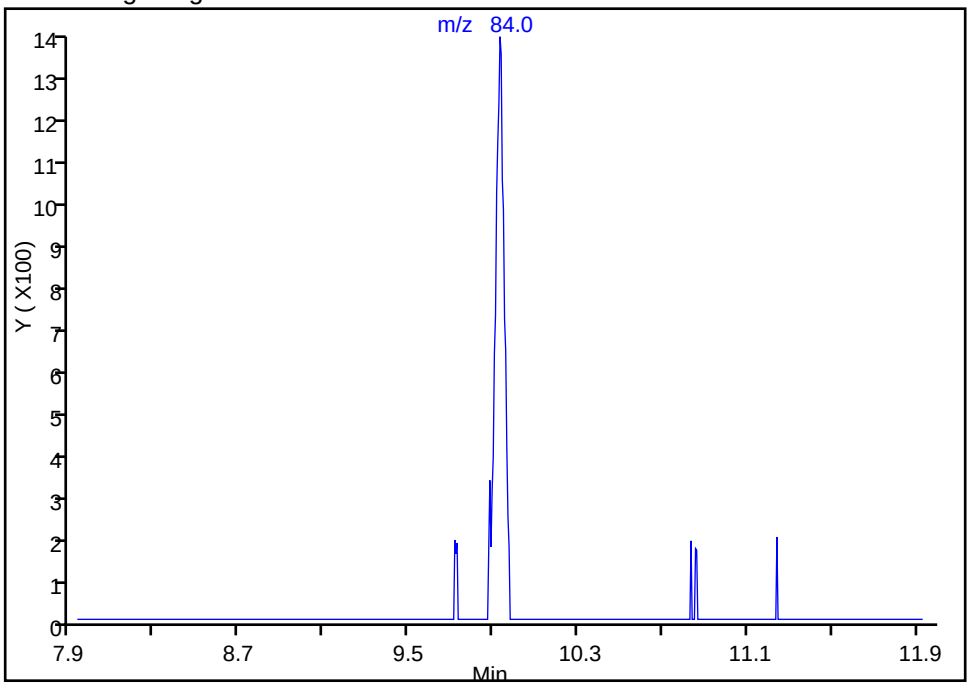
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

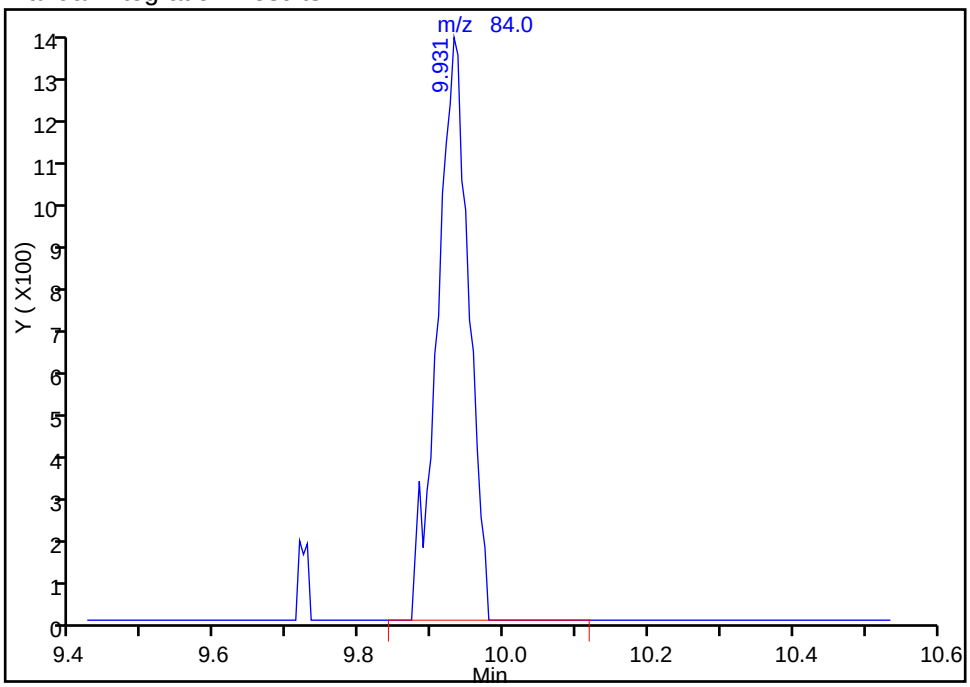
Processing Integration Results

RT: 9.93
Area: 0
Amount: 0.112456
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 4098
Amount: 0.232808
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

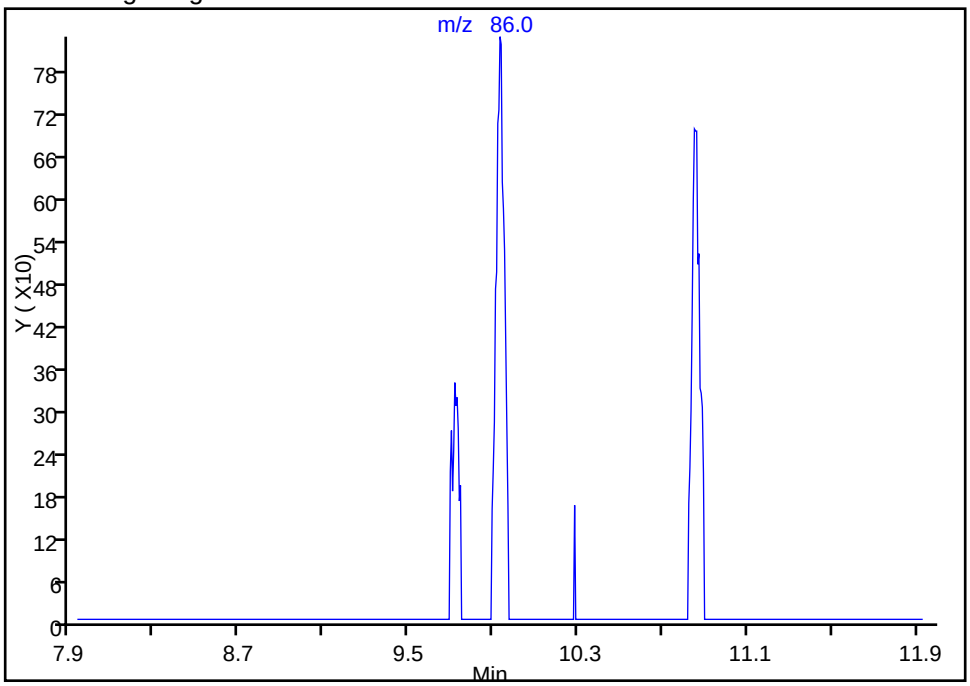
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

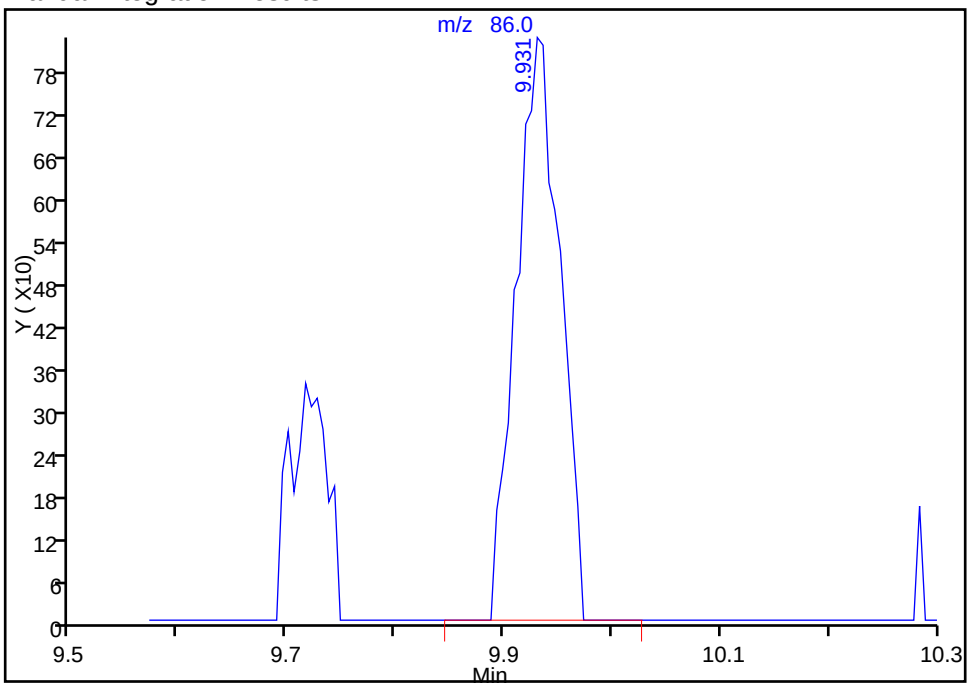
Processing Integration Results

RT: 9.93
Area: 0
Amount: 0.112456
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 2325
Amount: 0.232808
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

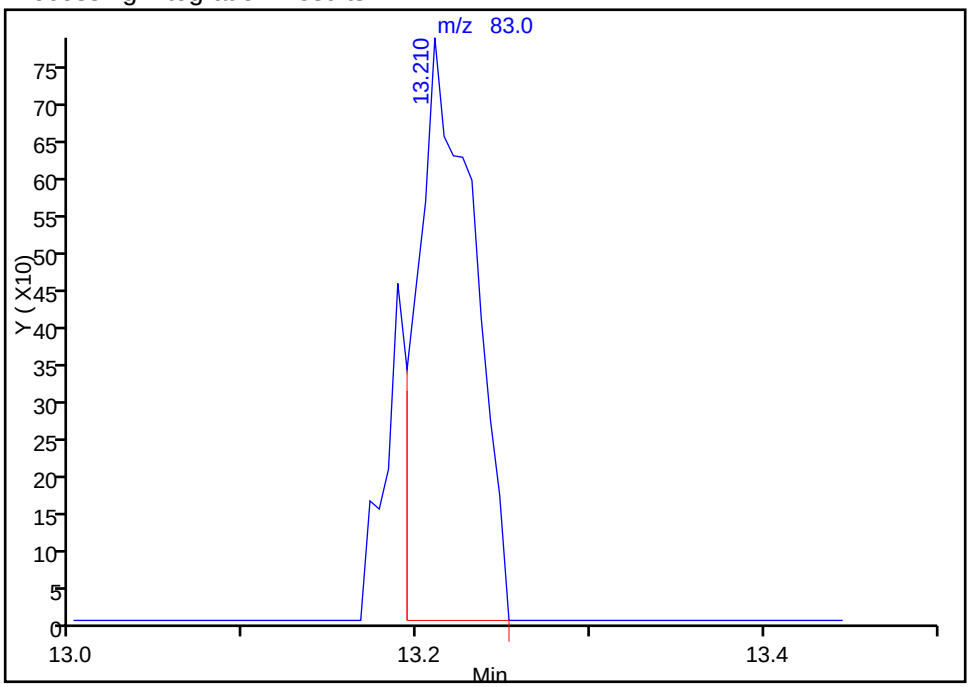
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

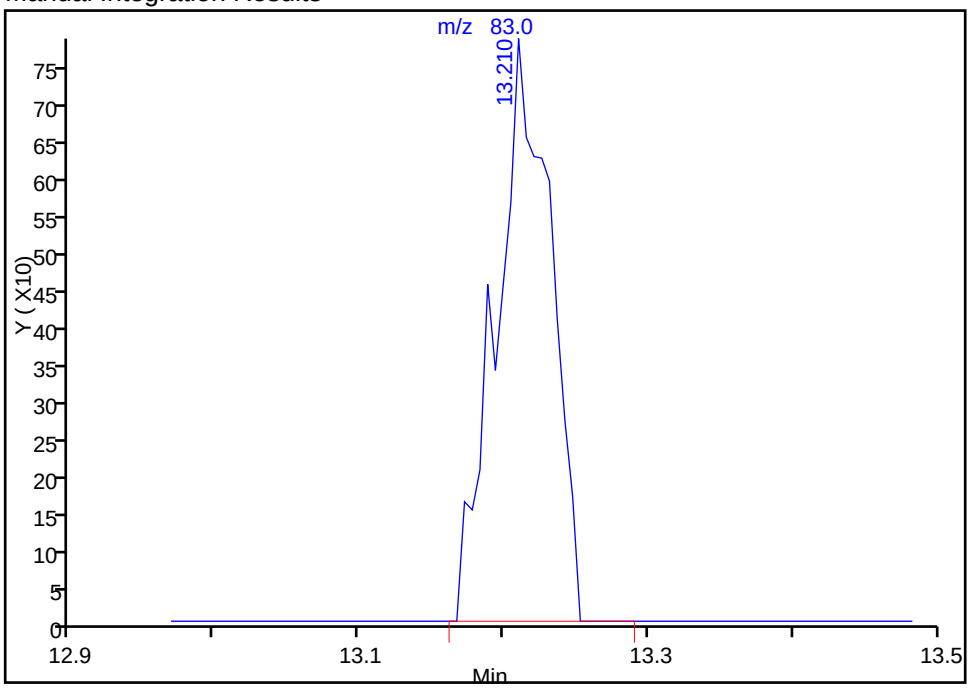
Processing Integration Results

RT: 13.21
Area: 1759
Amount: 0.041291
Amount Units: ppb v/v



Manual Integration Results

RT: 13.21
Area: 2070
Amount: 0.048591
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

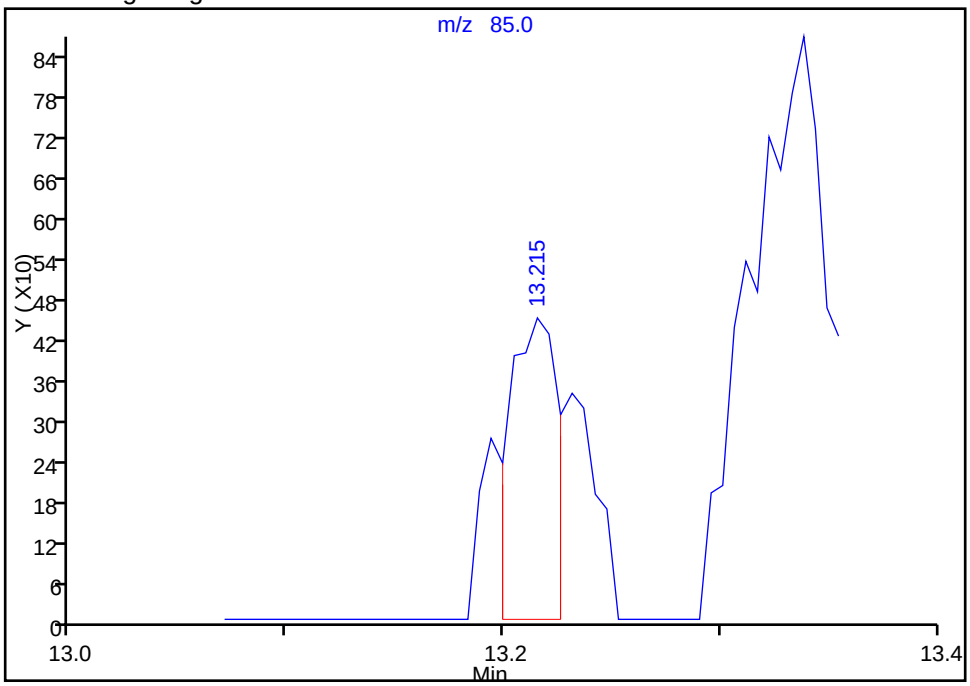
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

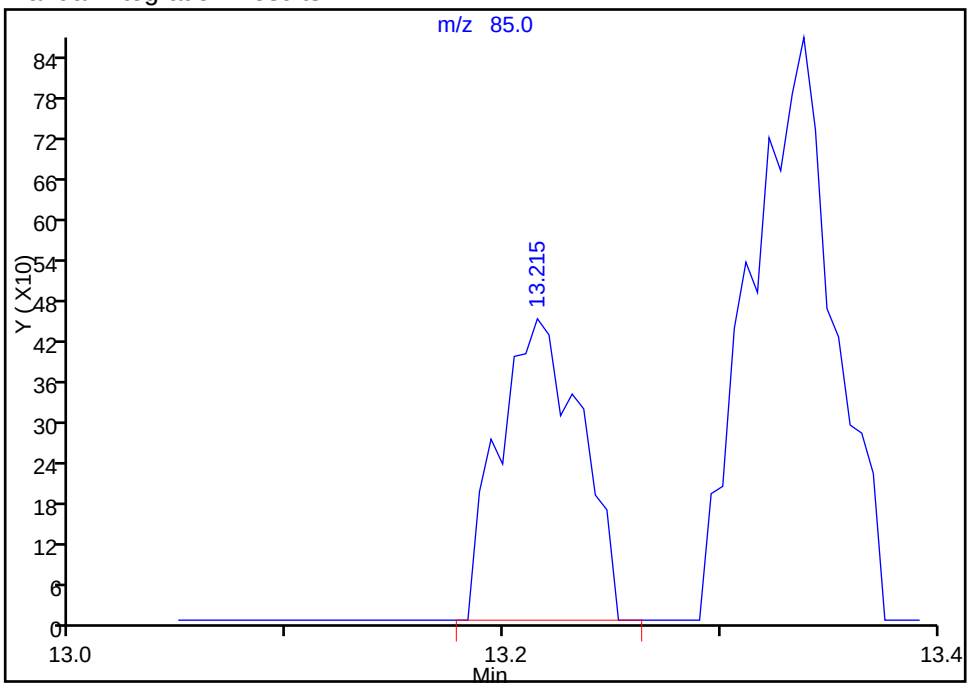
Processing Integration Results

RT: 13.22
Area: 705
Amount: 0.041291
Amount Units: ppb v/v



Manual Integration Results

RT: 13.22
Area: 1174
Amount: 0.048591
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

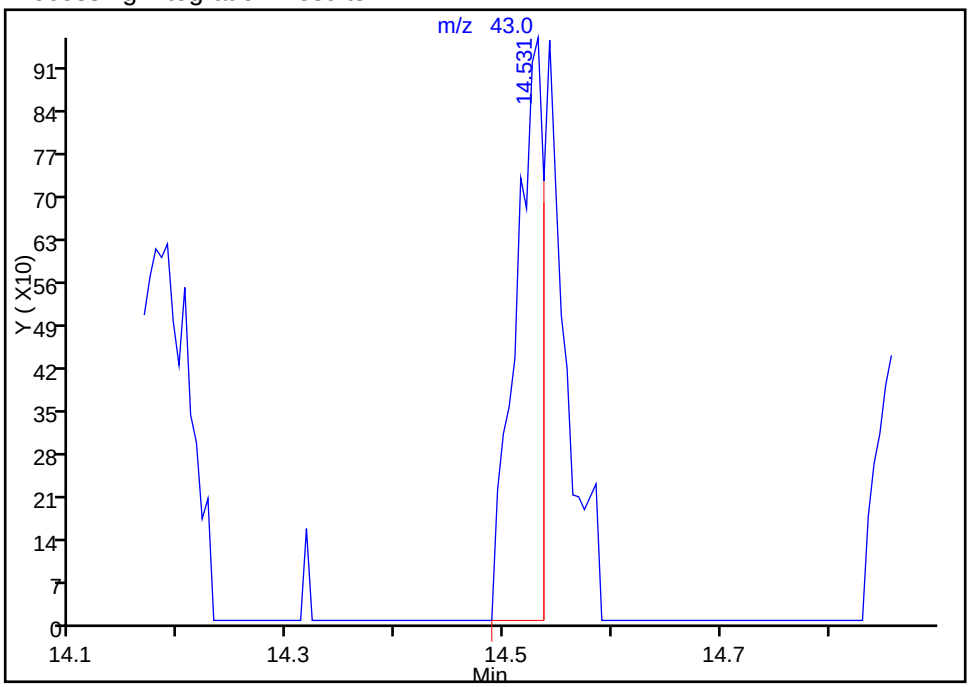
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

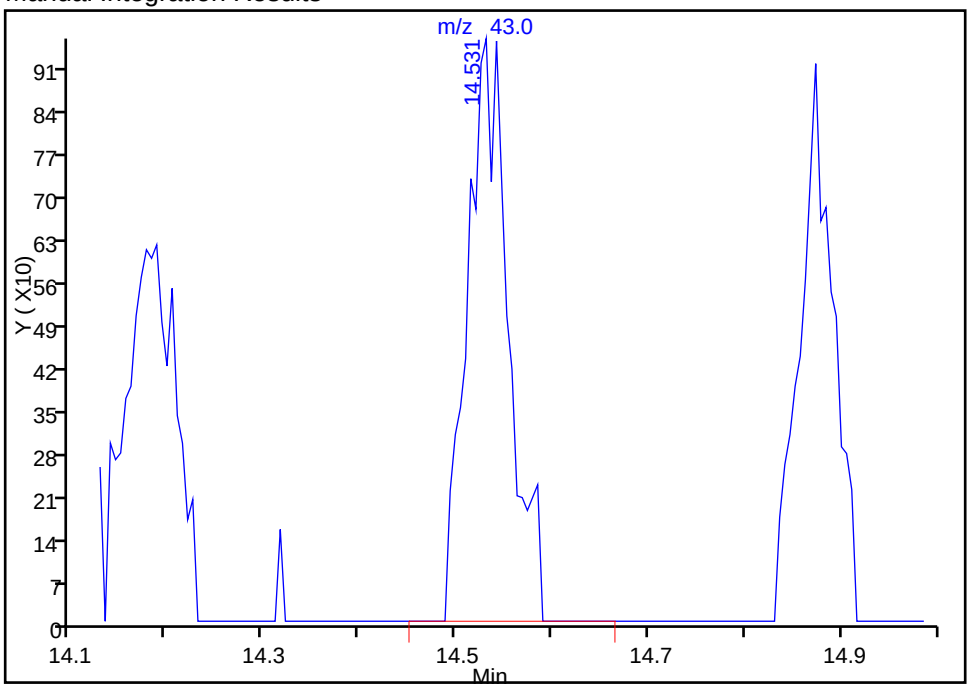
Processing Integration Results

RT: 14.53
Area: 1693
Amount: 0.086188
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 2845
Amount: 0.144834
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

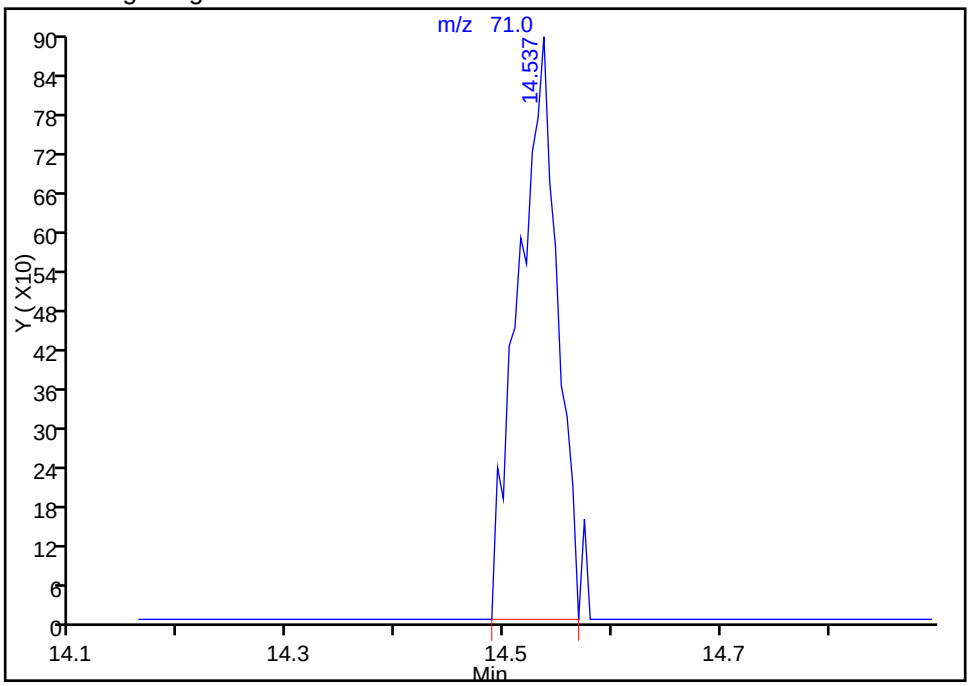
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

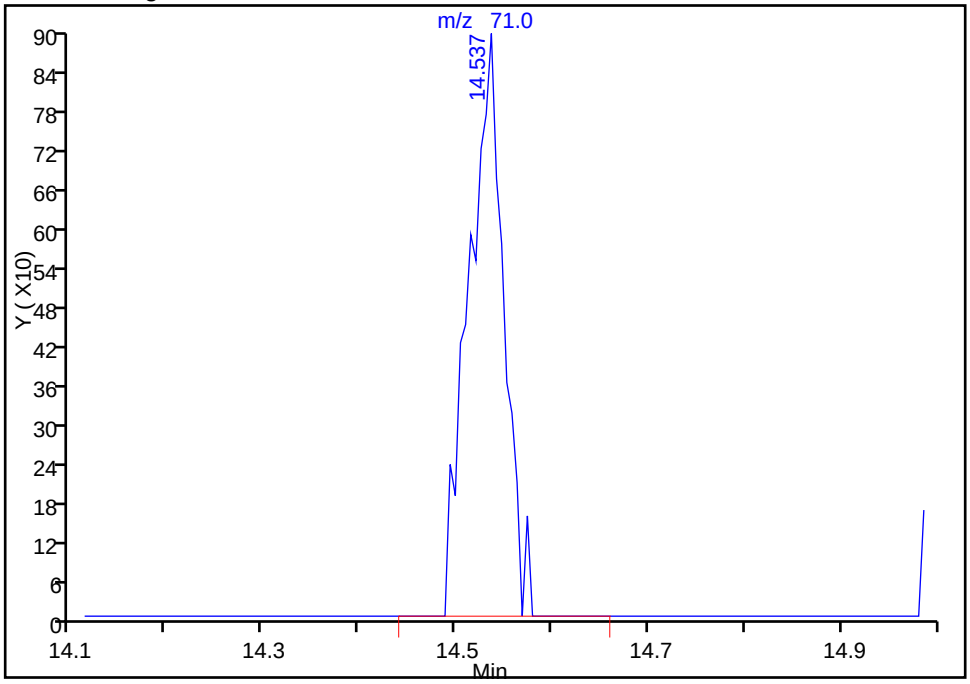
Processing Integration Results

RT: 14.54
Area: 2222
Amount: 0.086188
Amount Units: ppb v/v



Manual Integration Results

RT: 14.54
Area: 2271
Amount: 0.144834
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

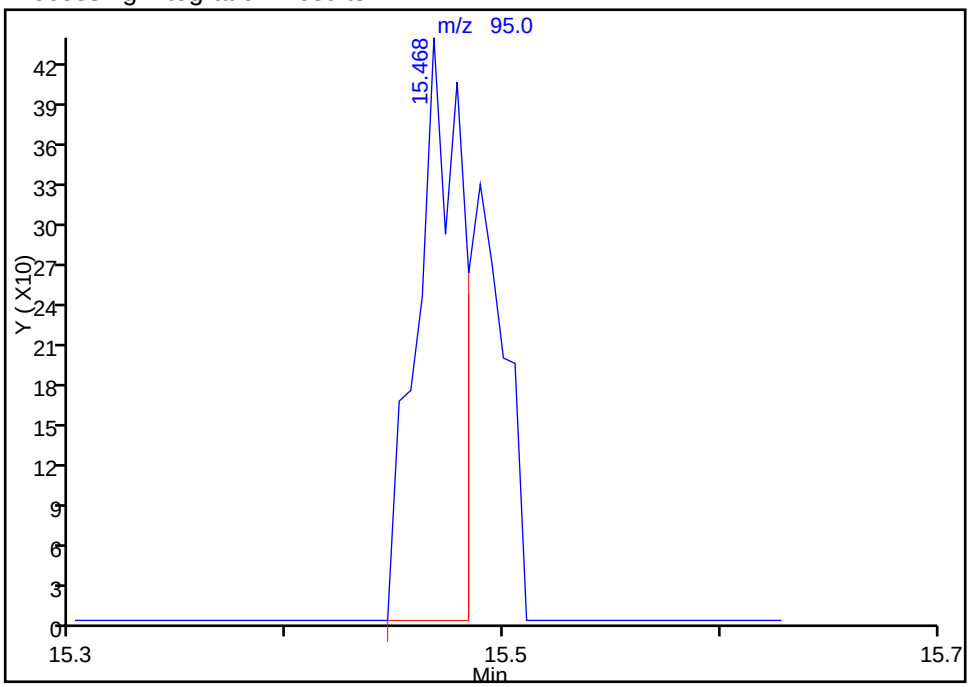
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

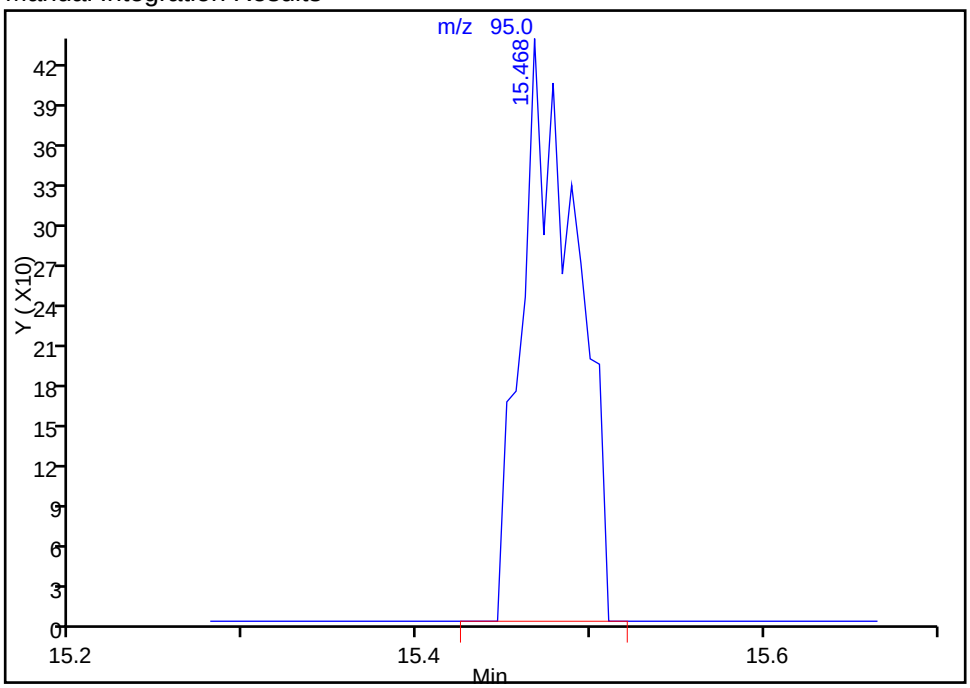
Processing Integration Results

RT: 15.47
Area: 627
Amount: 0.022455
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 940
Amount: 0.033665
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

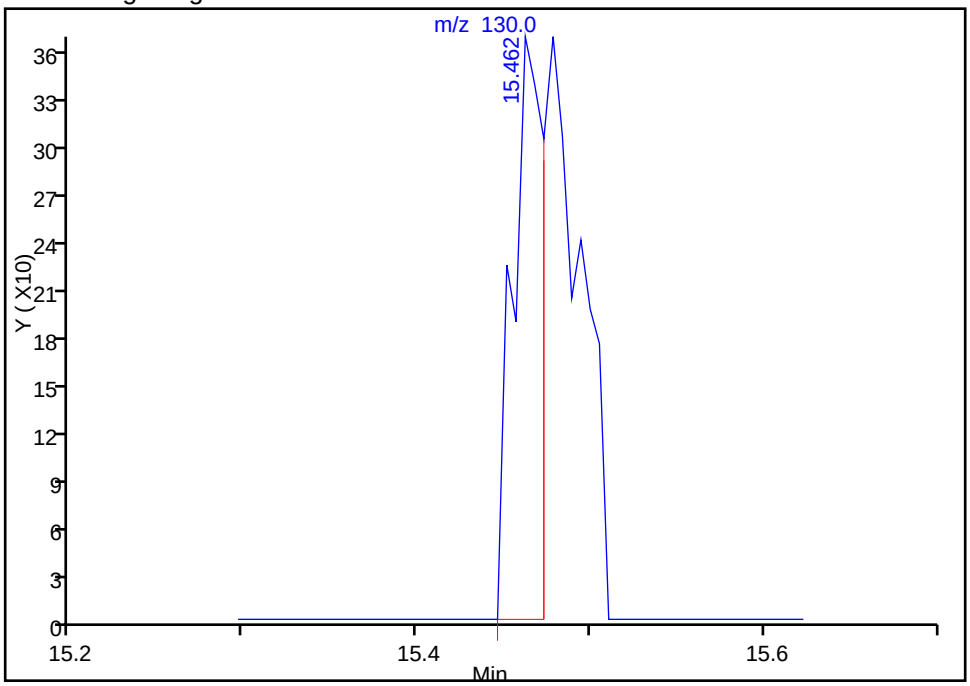
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

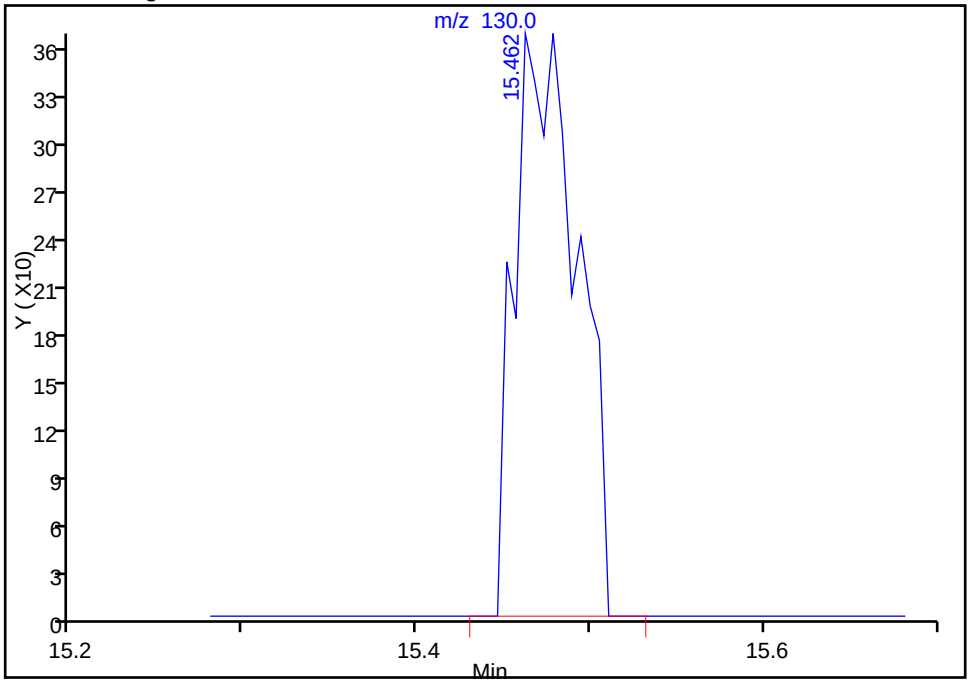
Processing Integration Results

RT: 15.46
Area: 458
Amount: 0.022455
Amount Units: ppb v/v



Manual Integration Results

RT: 15.46
Area: 938
Amount: 0.033665
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

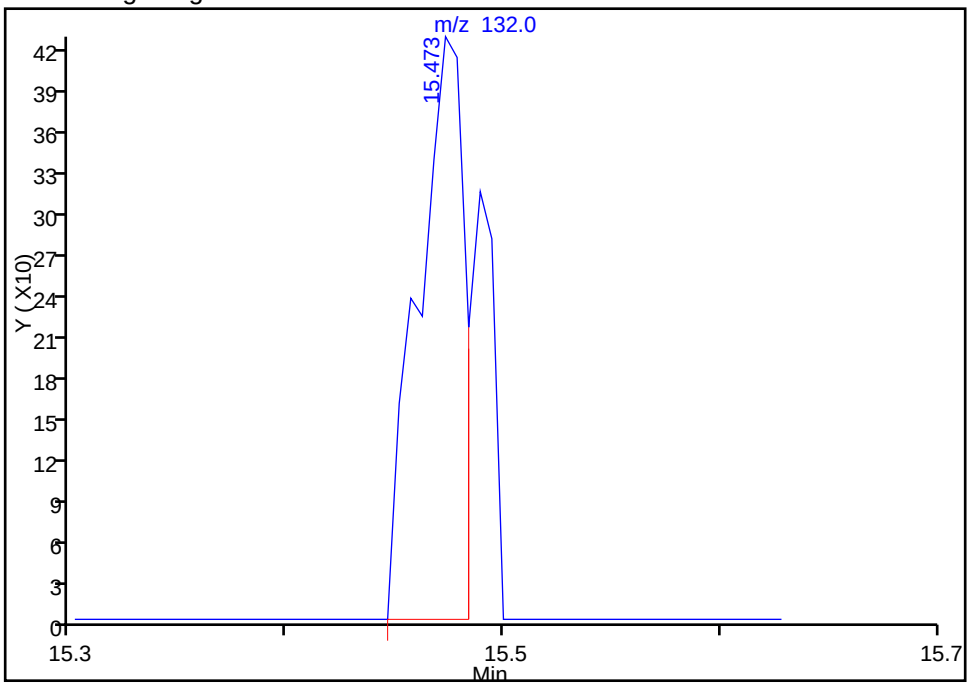
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_008.d				
Injection Date:	30-Sep-2015 16:53:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

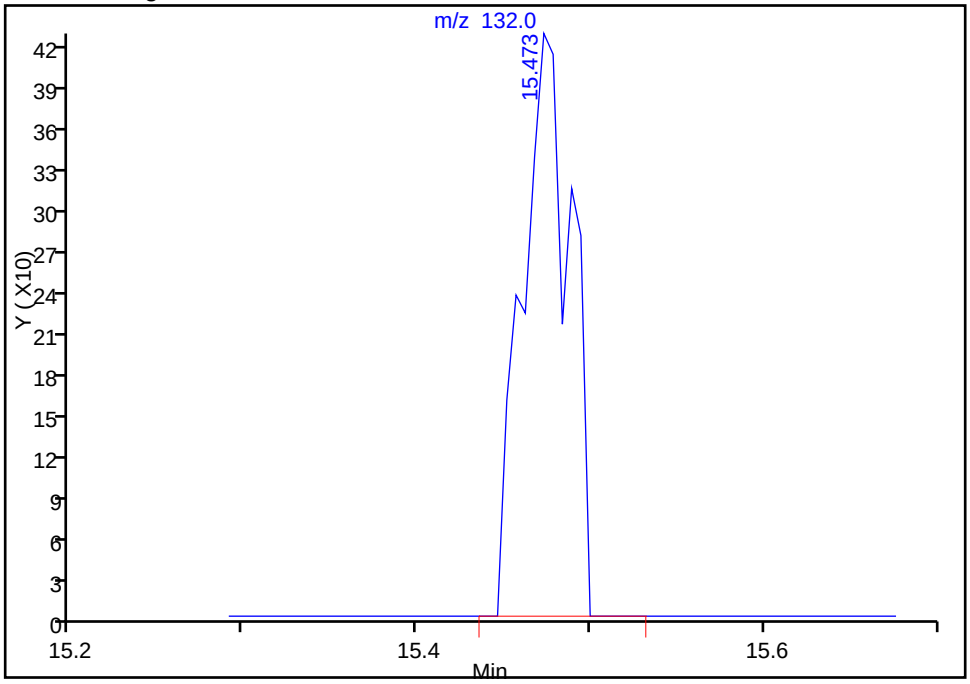
Processing Integration Results

RT: 15.47
Area: 634
Amount: 0.022455
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 822
Amount: 0.033665
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:09:41
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 DL Lab Sample ID: 200-29972-14 DL

Matrix: Air Lab File ID: 15991_028.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 09:39

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.66	J D	1.0	0.16
75-45-6	Freon 22	86.47	0.64	J D	1.0	0.11
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.40	U	0.40	0.076
74-87-3	Chloromethane	50.49	0.58	J D	1.0	0.19
106-97-8	n-Butane	58.12	4.6	D	1.0	0.16
75-01-4	Vinyl chloride	62.50	0.080	U	0.080	0.064
106-99-0	1,3-Butadiene	54.09	0.40	U	0.40	0.18
74-83-9	Bromomethane	94.94	0.40	U	0.40	0.11
75-00-3	Chloroethane	64.52	1.0	U	1.0	0.17
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.40	U	0.40	0.088
75-69-4	Trichlorofluoromethane	137.37	45	D	0.40	0.076
76-13-1	Freon TF	187.38	0.40	U	0.40	0.15
75-35-4	1,1-Dichloroethene	96.94	0.54	D	0.40	0.072
67-64-1	Acetone	58.08	7.4	J D	10	1.7
67-63-0	Isopropyl alcohol	60.10	4.1	J D	10	2.0
75-15-0	Carbon disulfide	76.14	0.21	J D	1.0	0.086
107-05-1	3-Chloropropene	76.53	1.0	U	1.0	0.14
75-09-2	Methylene Chloride	84.93	1.0	U	1.0	0.36
75-65-0	tert-Butyl alcohol	74.12	10	U	10	1.7
1634-04-4	Methyl tert-butyl ether	88.15	0.40	U	0.40	0.18
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.086
110-54-3	n-Hexane	86.17	0.45	D	0.40	0.11
75-34-3	1,1-Dichloroethane	98.96	0.16	J D	0.40	0.050
78-93-3	Methyl Ethyl Ketone	72.11	0.79	J D	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.070
540-59-0	1,2-Dichloroethene, Total	96.94	0.80	U	0.80	0.070
67-66-3	Chloroform	119.38	0.40	U	0.40	0.16
109-99-9	Tetrahydrofuran	72.11	10	U	10	2.8
71-55-6	1,1,1-Trichloroethane	133.41	0.42	D	0.40	0.092
110-82-7	Cyclohexane	84.16	0.40	U	0.40	0.078
56-23-5	Carbon tetrachloride	153.81	0.078	J D	0.080	0.064
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J D	0.40	0.078
71-43-2	Benzene	78.11	0.47	D	0.40	0.084
107-06-2	1,2-Dichloroethane	98.96	0.58	D	0.40	0.082

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 DL | Lab Sample ID: 200-29972-14 DL

Matrix: Air | Lab File ID: 15991_028.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 100(mL) | Date Analyzed: 09/30/2015 09:39

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.40	U	0.40	0.080
79-01-6	Trichloroethene	131.39	0.080	U	0.080	0.078
80-62-6	Methyl methacrylate	100.12	1.0	U	1.0	0.080
78-87-5	1,2-Dichloropropane	112.99	0.40	U	0.40	0.054
123-91-1	1,4-Dioxane	88.11	10	U	10	1.1
75-27-4	Bromodichloromethane	163.83	0.40	U	0.40	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	0.40	U	0.40	0.046
108-10-1	methyl isobutyl ketone	100.16	1.0	U	1.0	0.10
108-88-3	Toluene	92.14	0.95	D	0.40	0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	0.40	U	0.40	0.068
79-00-5	1,1,2-Trichloroethane	133.41	0.40	U	0.40	0.078
127-18-4	Tetrachloroethene	165.83	0.40	U	0.40	0.046
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.0	U	1.0	0.11
124-48-1	Dibromochloromethane	208.29	0.40	U	0.40	0.088
106-93-4	1,2-Dibromoethane	187.87	0.40	U	0.40	0.078
108-90-7	Chlorobenzene	112.56	0.40	U	0.40	0.098
100-41-4	Ethylbenzene	106.17	0.14	J D	0.40	0.066
179601-23-1	m,p-Xylene	106.17	0.42	J D	1.0	0.14
95-47-6	Xylene, o-	106.17	0.16	J D	0.40	0.074
1330-20-7	Xylene (total)	106.17	0.58	J D	1.4	0.074
100-42-5	Styrene	104.15	0.099	J D	0.40	0.086
75-25-2	Bromoform	252.75	0.40	U	0.40	0.11
98-82-8	Cumene	120.19	0.40	U	0.40	0.060
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.40	U	0.40	0.088
103-65-1	n-Propylbenzene	120.19	0.40	U	0.40	0.086
622-96-8	4-Ethyltoluene	120.20	0.40	U	0.40	0.088
108-67-8	1,3,5-Trimethylbenzene	120.20	0.40	U	0.40	0.078
95-49-8	2-Chlorotoluene	126.59	0.40	U	0.40	0.066
98-06-6	tert-Butylbenzene	134.22	0.40	U	0.40	0.088
95-63-6	1,2,4-Trimethylbenzene	120.20	0.12	J D	0.40	0.086
135-98-8	sec-Butylbenzene	134.22	0.40	U	0.40	0.088
99-87-6	4-Isopropyltoluene	134.22	0.40	U	0.40	0.074
541-73-1	1,3-Dichlorobenzene	147.00	0.40	U	0.40	0.11
106-46-7	1,4-Dichlorobenzene	147.00	0.40	U	0.40	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 DL Lab Sample ID: 200-29972-14 DL

Matrix: Air Lab File ID: 15991_028.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 09:39

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.40*	*U*	*0.40*	*0.11*
104-51-8	*n-Butylbenzene*	*134.22*	*0.40*	*U*	*0.40*	*0.094*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.40*	*U*	*0.40*	*0.11*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*1.0*	*U*	*1.0*	*0.14*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.40*	*U*	*0.40*	*0.16*
91-20-3	*Naphthalene*	*128.17*	*1.0*	*U*	*1.0*	*0.11*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 DL | Lab Sample ID: 200-29972-14 DL

Matrix: Air | Lab File ID: 15991_028.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 100(mL) | Date Analyzed: 09/30/2015 09:39

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.3	J D	4.9	0.79
75-45-6	Freon 22	86.47	2.3	J D	3.5	0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.8	U	2.8	0.53
74-87-3	Chloromethane	50.49	1.2	J D	2.1	0.38
106-97-8	n-Butane	58.12	11	D	2.4	0.37
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.16
106-99-0	1,3-Butadiene	54.09	0.88	U	0.88	0.39
74-83-9	Bromomethane	94.94	1.6	U	1.6	0.43
75-00-3	Chloroethane	64.52	2.6	U	2.6	0.45
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.7	U	1.7	0.38
75-69-4	Trichlorofluoromethane	137.37	250	D	2.2	0.43
76-13-1	Freon TF	187.38	3.1	U	3.1	1.1
75-35-4	1,1-Dichloroethene	96.94	2.1	D	1.6	0.29
67-64-1	Acetone	58.08	18	J D	24	4.1
67-63-0	Isopropyl alcohol	60.10	10	J D	25	4.8
75-15-0	Carbon disulfide	76.14	0.64	J D	3.1	0.27
107-05-1	3-Chloropropene	76.53	3.1	U	3.1	0.43
75-09-2	Methylene Chloride	84.93	3.5	U	3.5	1.3
75-65-0	tert-Butyl alcohol	74.12	30	U	30	5.2
1634-04-4	Methyl tert-butyl ether	88.15	1.4	U	1.4	0.64
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	0.34
110-54-3	n-Hexane	86.17	1.6	D	1.4	0.38
75-34-3	1,1-Dichloroethane	98.96	0.65	J D	1.6	0.20
78-93-3	Methyl Ethyl Ketone	72.11	2.3	J D	2.9	0.31
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	0.28
540-59-0	1,2-Dichloroethene, Total	96.94	3.2	U	3.2	0.28
67-66-3	Chloroform	119.38	2.0	U	2.0	0.80
109-99-9	Tetrahydrofuran	72.11	29	U	29	8.3
71-55-6	1,1,1-Trichloroethane	133.41	2.3	D	2.2	0.50
110-82-7	Cyclohexane	84.16	1.4	U	1.4	0.27
56-23-5	Carbon tetrachloride	153.81	0.49	J D	0.50	0.40
540-84-1	2,2,4-Trimethylpentane	114.23	0.92	J D	1.9	0.36
71-43-2	Benzene	78.11	1.5	D	1.3	0.27
107-06-2	1,2-Dichloroethane	98.96	2.4	D	1.6	0.33

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 DL | Lab Sample ID: 200-29972-14 DL

Matrix: Air | Lab File ID: 15991_028.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:14

Sample wt/vol: 100(mL) | Date Analyzed: 09/30/2015 09:39

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.6	U	1.6	0.33
79-01-6	Trichloroethene	131.39	0.43	U	0.43	0.42
80-62-6	Methyl methacrylate	100.12	4.1	U	4.1	0.33
78-87-5	1,2-Dichloropropane	112.99	1.8	U	1.8	0.25
123-91-1	1,4-Dioxane	88.11	36	U	36	4.0
75-27-4	Bromodichloromethane	163.83	2.7	U	2.7	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	1.8	U	1.8	0.21
108-10-1	methyl isobutyl ketone	100.16	4.1	U	4.1	0.41
108-88-3	Toluene	92.14	3.6	D	1.5	0.70
10061-02-6	trans-1,3-Dichloropropene	110.97	1.8	U	1.8	0.31
79-00-5	1,1,2-Trichloroethane	133.41	2.2	U	2.2	0.43
127-18-4	Tetrachloroethene	165.83	2.7	U	2.7	0.31
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	4.1	U	4.1	0.47
124-48-1	Dibromochloromethane	208.29	3.4	U	3.4	0.75
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	0.60
108-90-7	Chlorobenzene	112.56	1.8	U	1.8	0.45
100-41-4	Ethylbenzene	106.17	0.62	J D	1.7	0.29
179601-23-1	m,p-Xylene	106.17	1.8	J D	4.3	0.62
95-47-6	Xylene, o-	106.17	0.69	J D	1.7	0.32
1330-20-7	Xylene (total)	106.17	2.5	J D	6.1	0.32
100-42-5	Styrene	104.15	0.42	J D	1.7	0.37
75-25-2	Bromoform	252.75	4.1	U	4.1	1.2
98-82-8	Cumene	120.19	2.0	U	2.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.7	U	2.7	0.60
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.42
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.43
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.38
95-49-8	2-Chlorotoluene	126.59	2.1	U	2.1	0.34
98-06-6	tert-Butylbenzene	134.22	2.2	U	2.2	0.48
95-63-6	1,2,4-Trimethylbenzene	120.20	0.58	J D	2.0	0.42
135-98-8	sec-Butylbenzene	134.22	2.2	U	2.2	0.48
99-87-6	4-Isopropyltoluene	134.22	2.2	U	2.2	0.41
541-73-1	1,3-Dichlorobenzene	147.00	2.4	U	2.4	0.66
106-46-7	1,4-Dichlorobenzene	147.00	2.4	U	2.4	0.69

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA07-092315 DL Lab Sample ID: 200-29972-14 DL

Matrix: Air Lab File ID: 15991_028.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:14

Sample wt/vol: 100(mL) Date Analyzed: 09/30/2015 09:39

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*2.1*	*U*	*2.1*	*0.55*
104-51-8	*n-Butylbenzene*	*134.22*	*2.2*	*U*	*2.2*	*0.52*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*2.4*	*U*	*2.4*	*0.66*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*7.4*	*U*	*7.4*	*1.0*
87-68-3	*Hexachlorobutadiene*	*260.76*	*4.3*	*U*	*4.3*	*1.7*
91-20-3	*Naphthalene*	*128.17*	*5.2*	*U*	*5.2*	*0.60*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d
Lims ID: 200-29972-A-14 Lab Sample ID: 200-29972-14
Client ID: FR-IA07-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 09:39:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Sample Info: 200-0015991-028
Misc. Info.: 29972-14
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:12:18 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 14:16:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.415	4.426	-0.011	99	16197	0.3322	
3 Chlorodifluoromethane	51	4.490	4.495	-0.005	95	6308	0.3210	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.003	5.009	-0.006	97	2763	0.2901	
6 Butane	43	5.282	5.282	0.000	96	32184	2.32	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.293	7.288	0.005	98	1249348	22.6	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.673	8.663	0.010	93	4253	0.2677	
22 Acetone	43	8.946	8.935	0.011	98	63906	3.72	
23 Carbon disulfide	76	9.155	9.160	-0.005	50	3930	0.1027	M
24 Isopropyl alcohol	45	9.230	9.219	0.011	96	27816	2.03	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.925	9.925	0.000	83	2084	0.1654	
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.851	10.851	0.000	87	3792	0.2269	
34 1,1-Dichloroethane	63	11.418	11.428	-0.010	93	1995	0.0808	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.669	12.653	0.016	99	3151	0.3967	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	77	153531	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	93	9208	0.2079	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.772	13.782	-0.010	86	1895	0.0389	
46 Isooctane	57	14.183	14.183	0.000	91	5517	0.0985	M
47 Benzene	78	14.248	14.253	-0.005	94	11395	0.2359	
48 1,2-Dichloroethane	62	14.408	14.419	-0.011	98	6755	0.2913	
49 n-Heptane	43		14.531				ND	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	713622	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.195				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
65 Toluene	92	17.960	17.960	0.000	93	18123	0.4774	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166		18.987				ND	
69 2-Hexanone	43		19.260				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.2901	
* 74 Chlorobenzene-d5	117	20.731	20.731	0.000	83	656294	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.892	20.897	-0.005	94	6059	0.0714	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	7242	0.2111	
79 o-Xylene	106	21.796	21.801	-0.005	95	2671	0.0790	
80 Styrene	104	21.839	21.839	0.000	90	2612	0.0493	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.342	22.352	-0.010	86	1316	0.0127	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.962	22.973	-0.011	94	1936	0.0155	
88 4-Ethyltoluene	105		23.144				ND	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105		23.235				ND	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.786	23.813	-0.027	94	5834	0.0595	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.220	24.268	-0.048	92	3009	0.0248	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.439	24.482	-0.043	91	1915	0.0239	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.628	28.767	-0.139	95	4990	0.0402	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

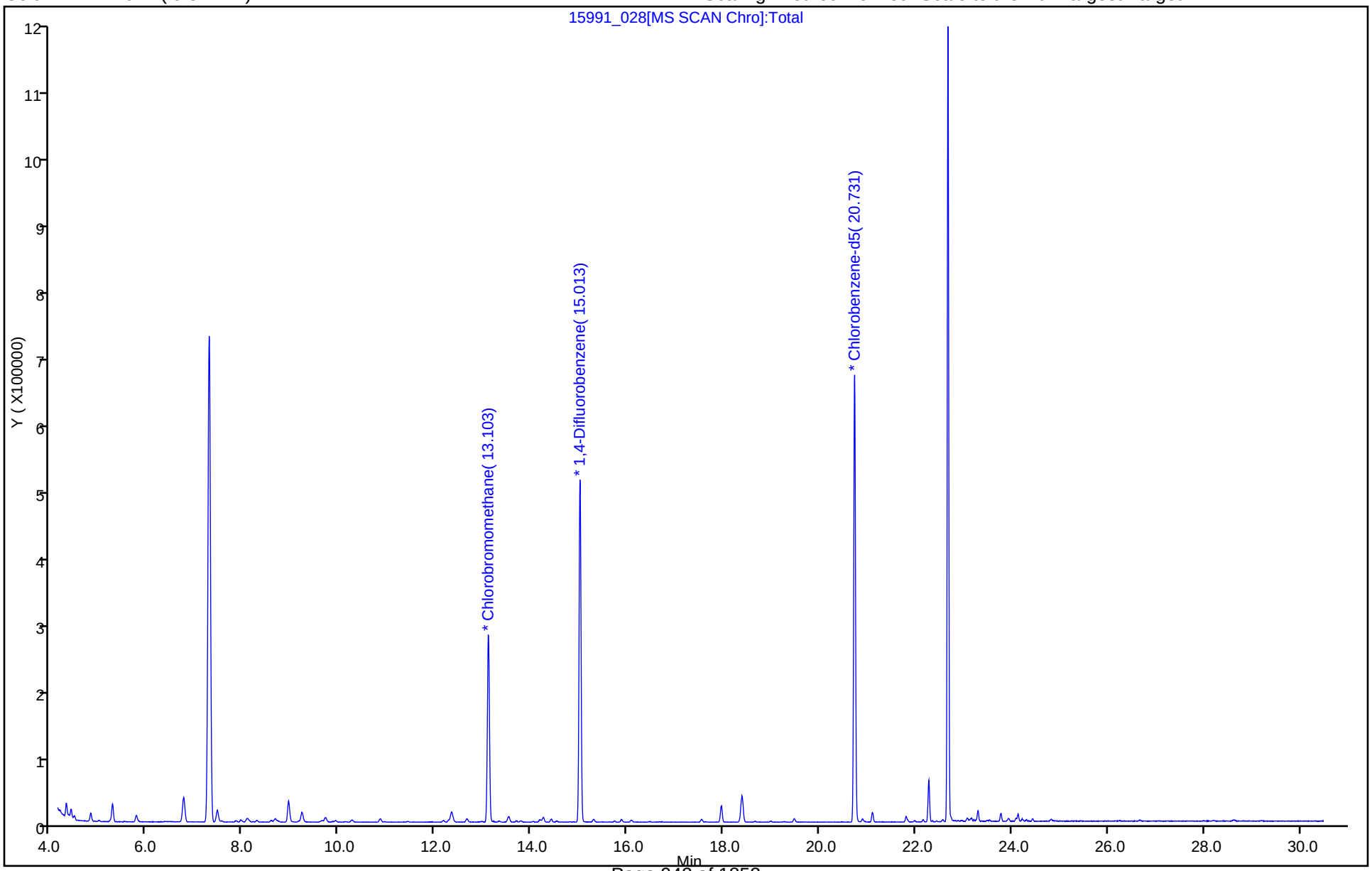
Report Date: 30-Sep-2015 14:16:08 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14	Worklist Smp#:	28
Client ID:	FR-IA07-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	27
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



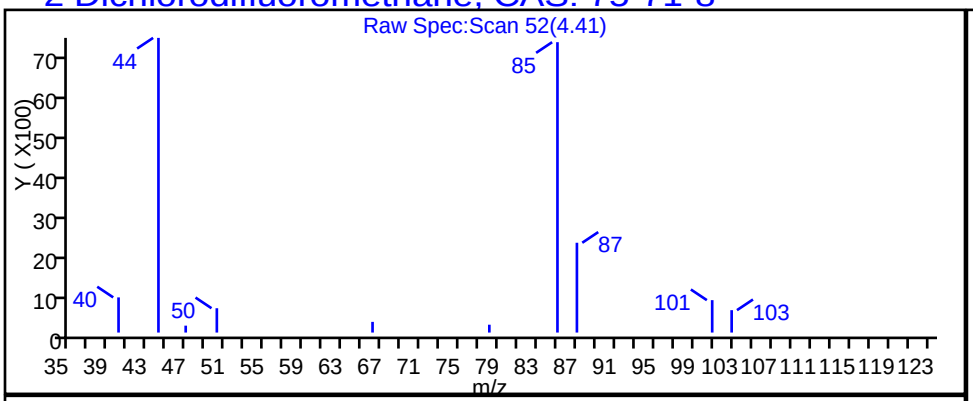
Report Date: 30-Sep-2015 14:16:08 Chrom Revision: 2.2 23-Jul-2015 08:26:08

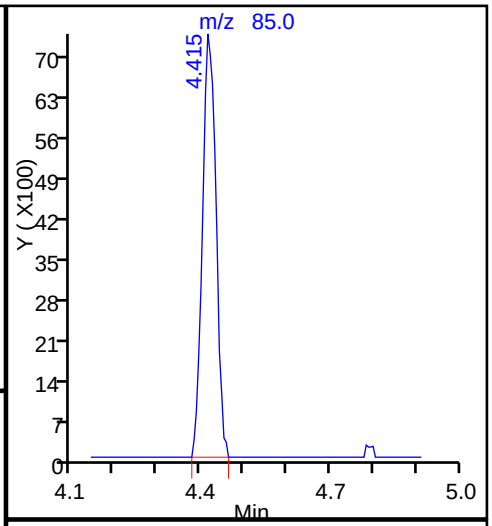
TestAmerica Burlington

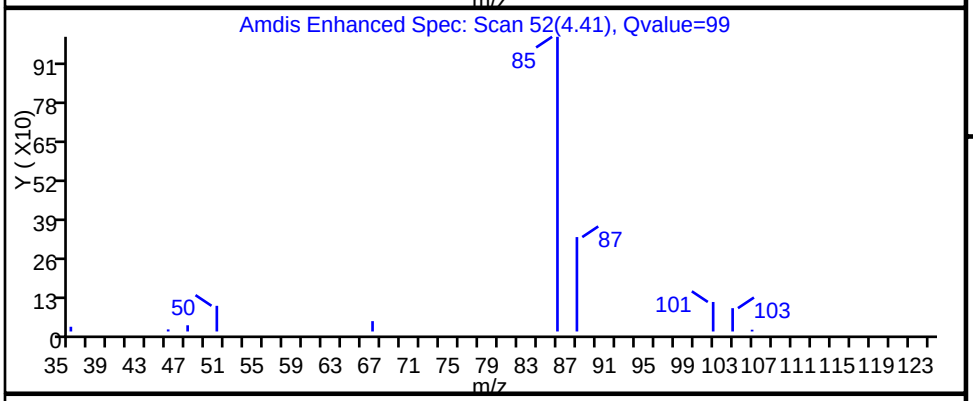
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

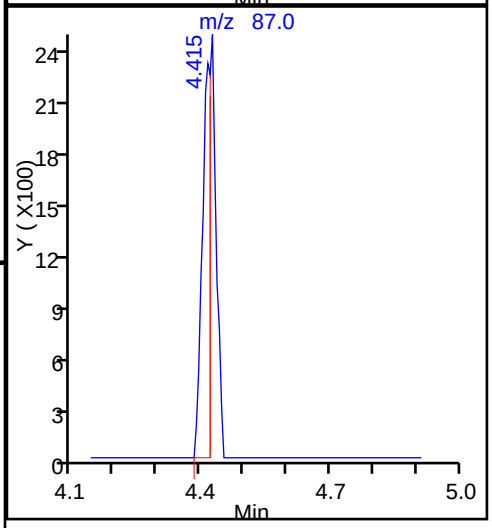
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

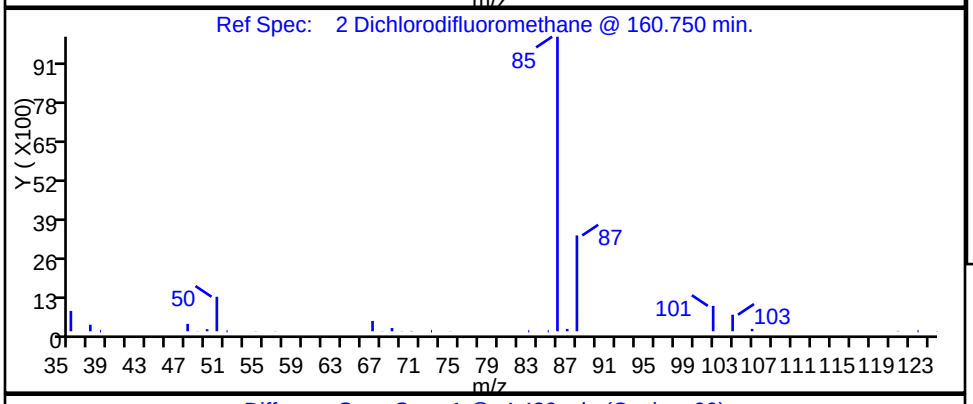
2 Dichlorodifluoromethane, CAS: 75-71-8

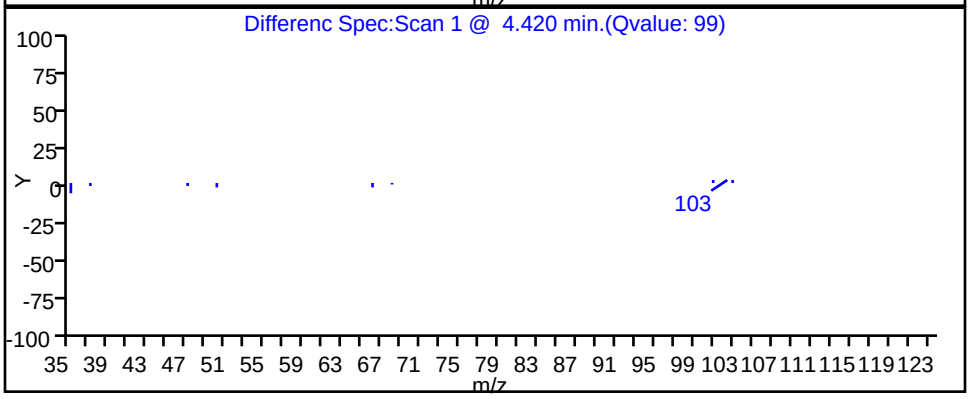












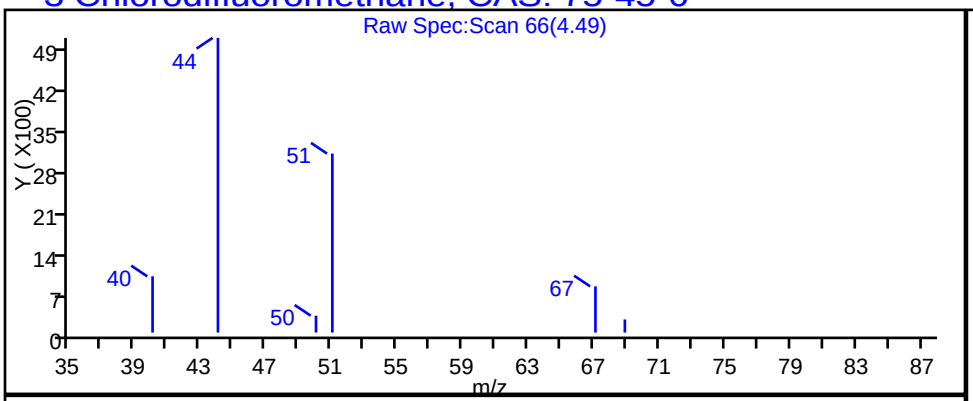
Report Date: 30-Sep-2015 14:16:08 Chrom Revision: 2.2 23-Jul-2015 08:26:08

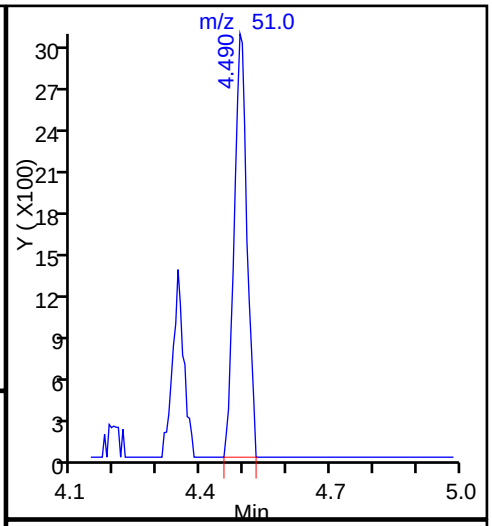
TestAmerica Burlington

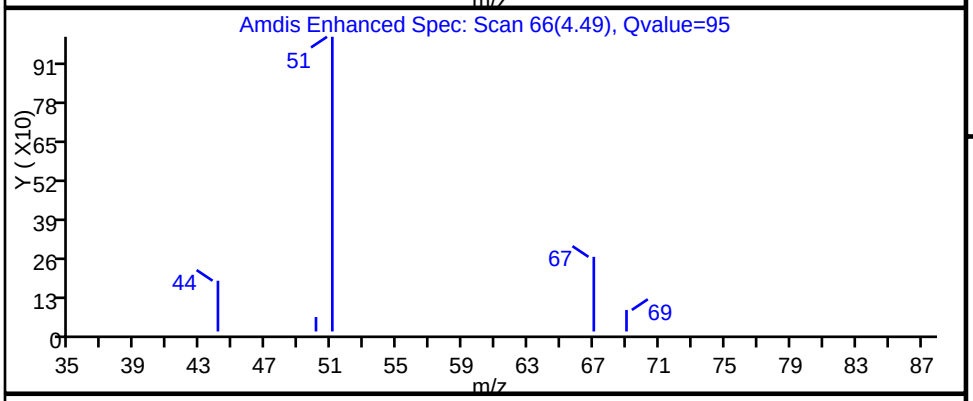
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

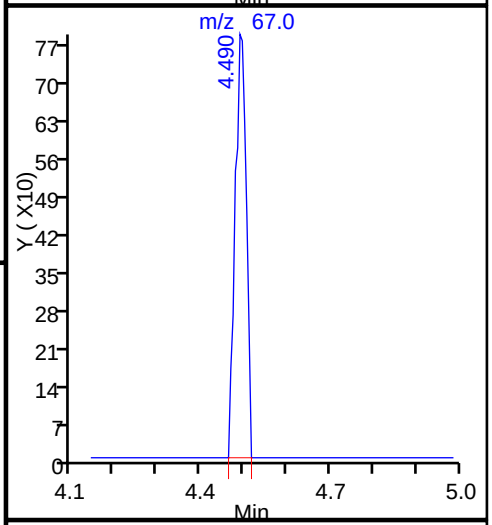
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

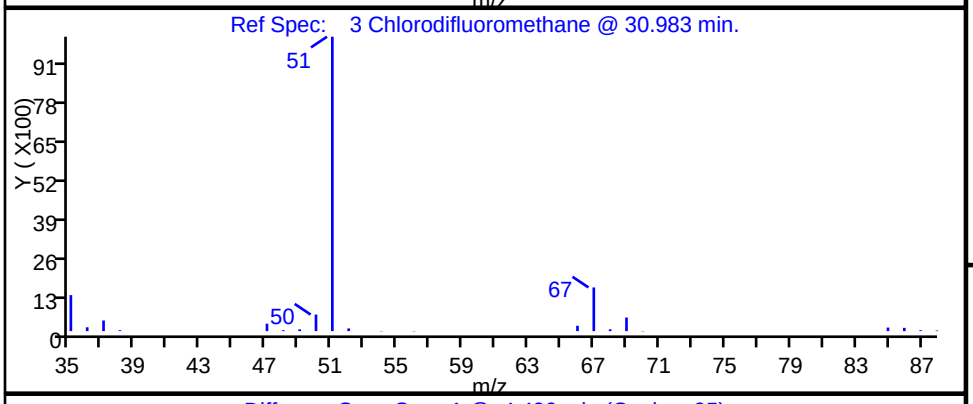
3 Chlorodifluoromethane, CAS: 75-45-6

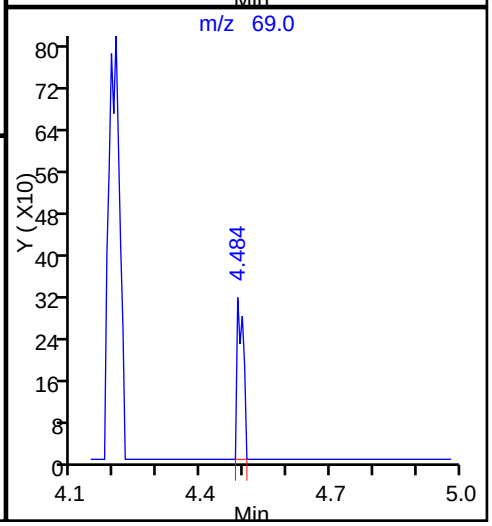


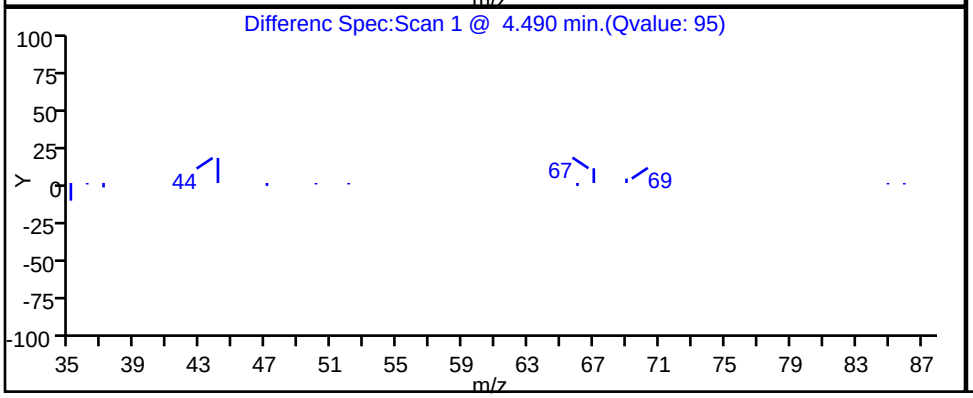












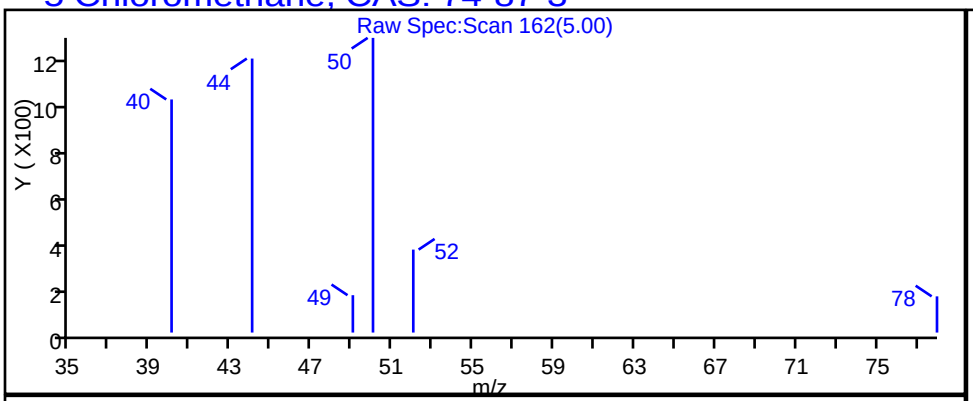
Report Date: 30-Sep-2015 14:16:08 Chrom Revision: 2.2 23-Jul-2015 08:26:08

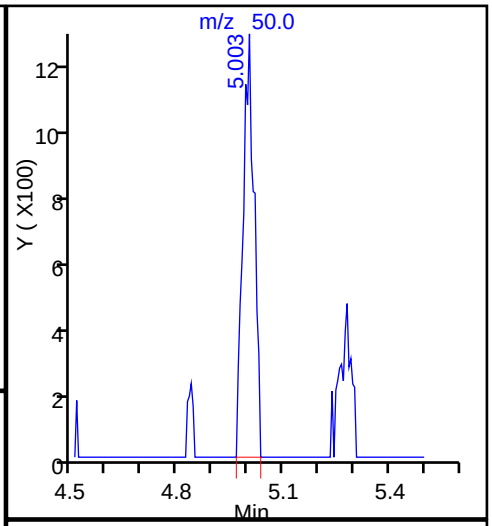
TestAmerica Burlington

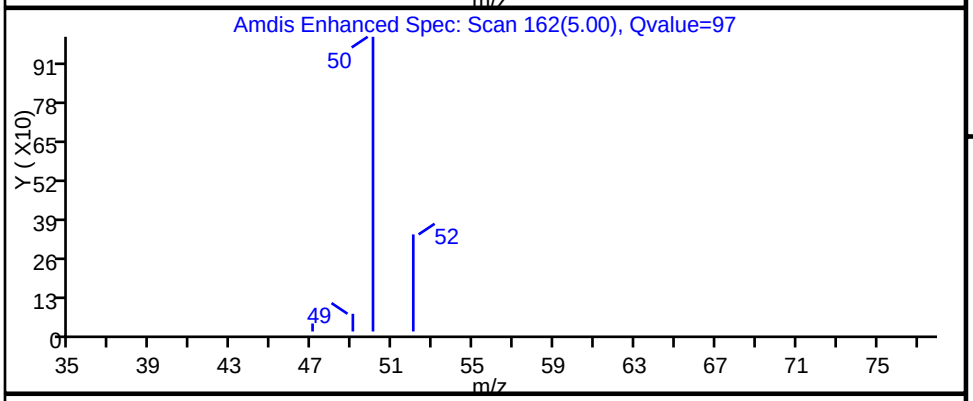
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

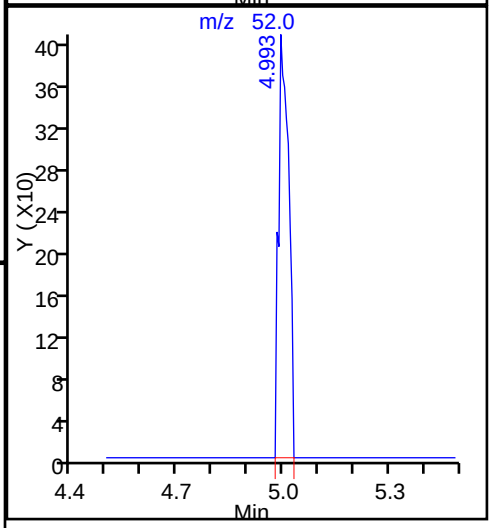
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

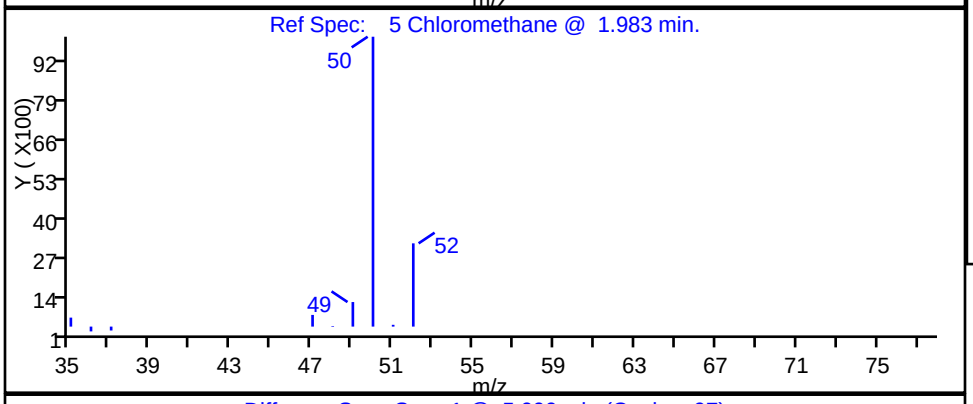
5 Chloromethane, CAS: 74-87-3

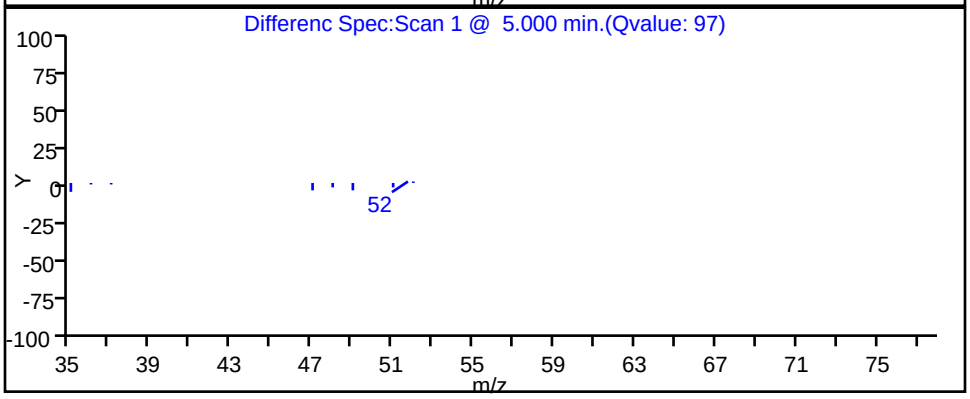












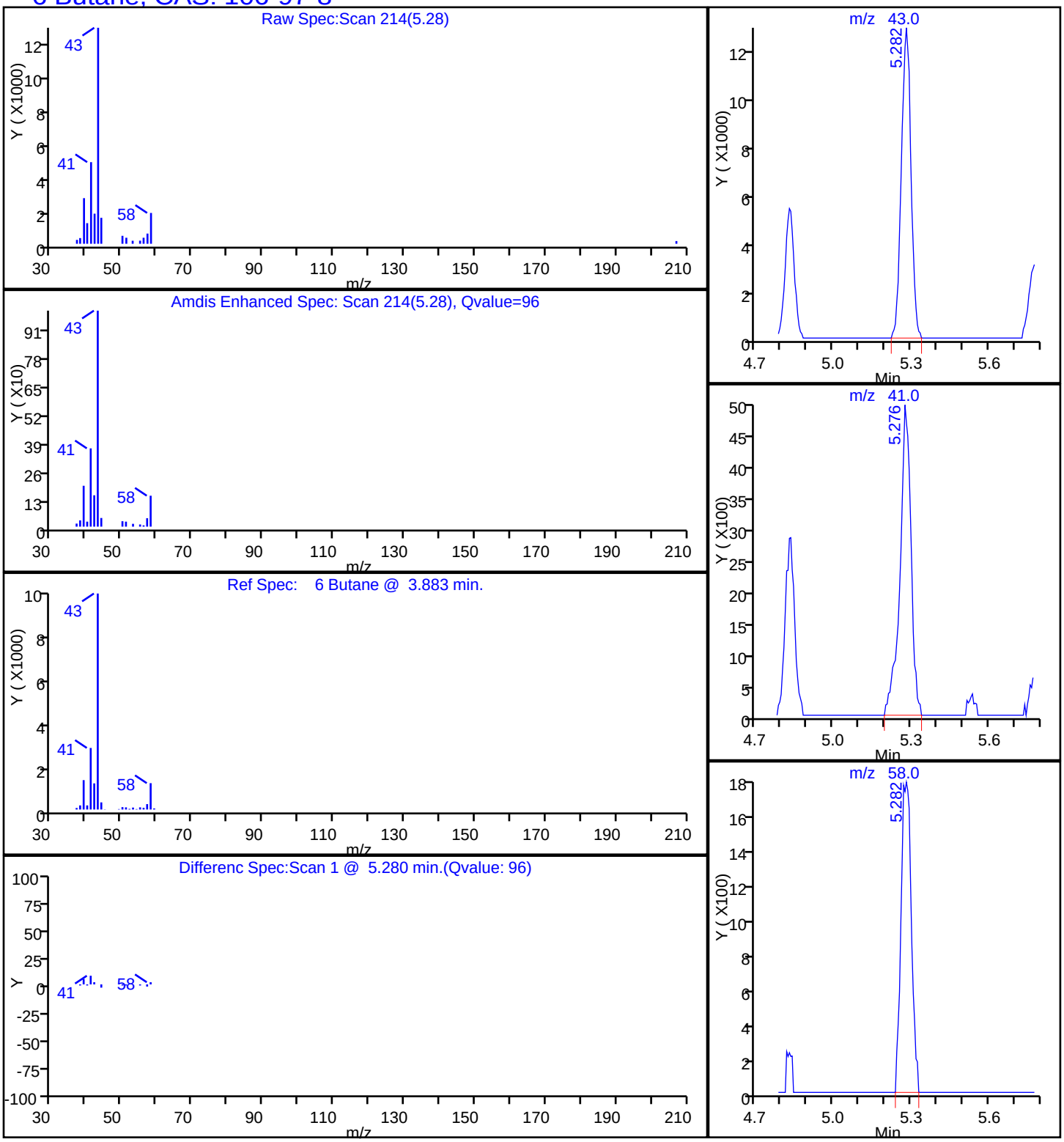
Report Date: 30-Sep-2015 14:16:08 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

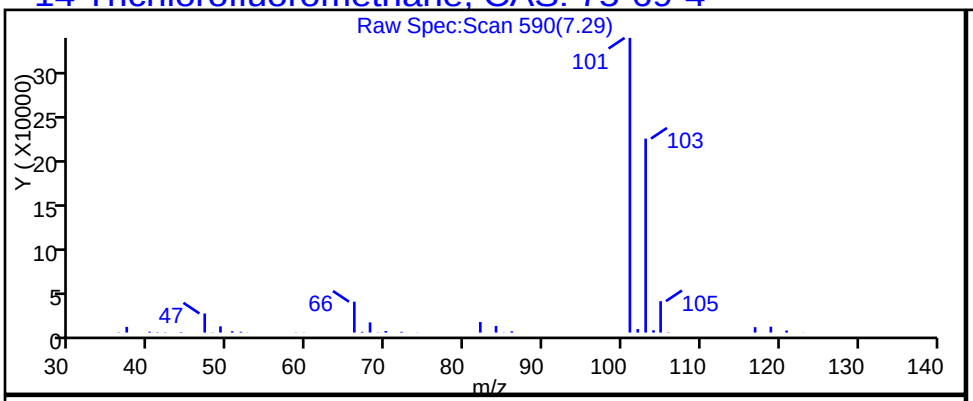


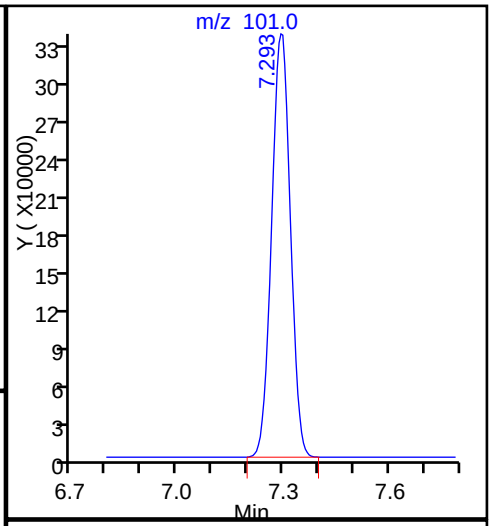
Report Date: 30-Sep-2015 14:16:08 Chrom Revision: 2.2 23-Jul-2015 08:26:08

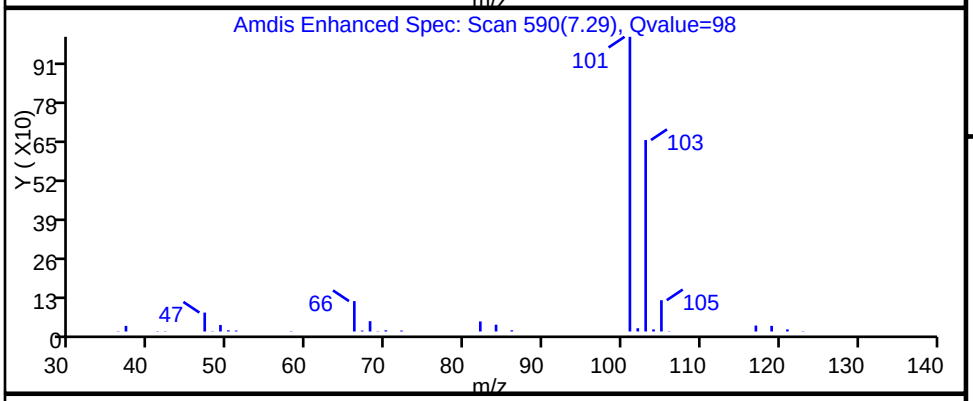
TestAmerica Burlington

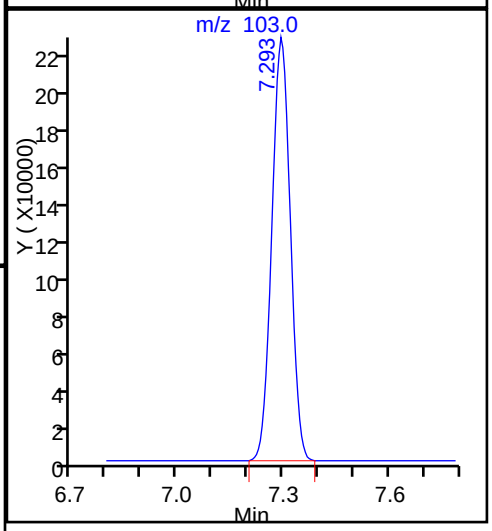
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

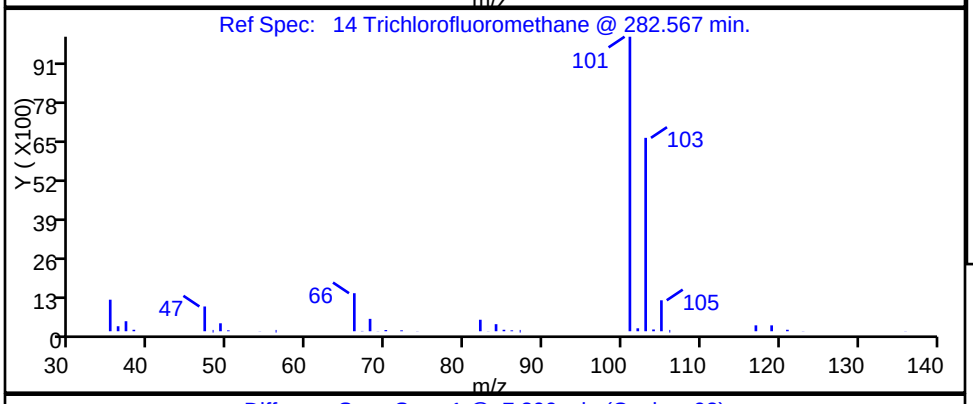
14 Trichlorofluoromethane, CAS: 75-69-4

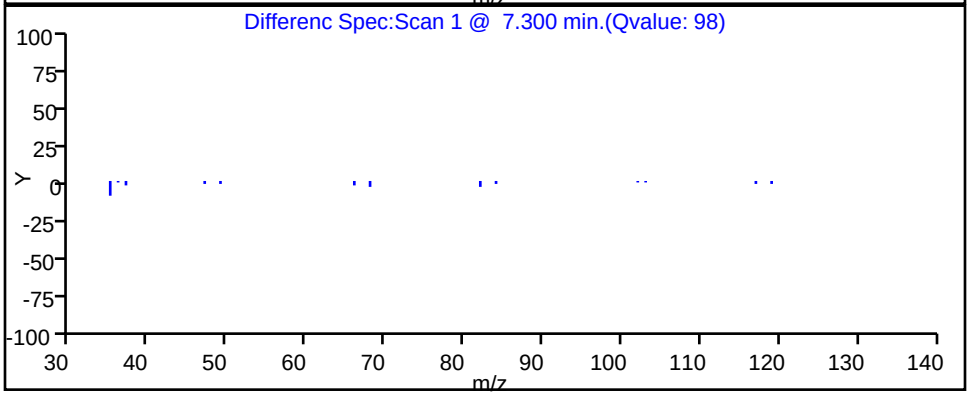












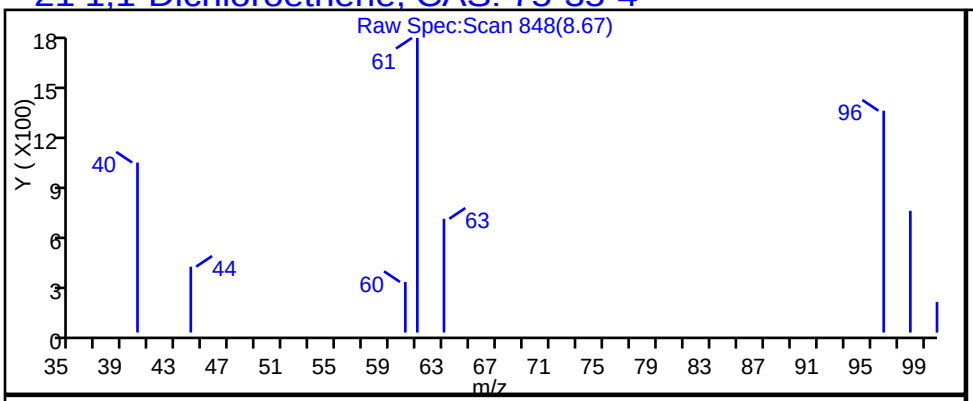
Report Date: 30-Sep-2015 14:16:09 Chrom Revision: 2.2 23-Jul-2015 08:26:08

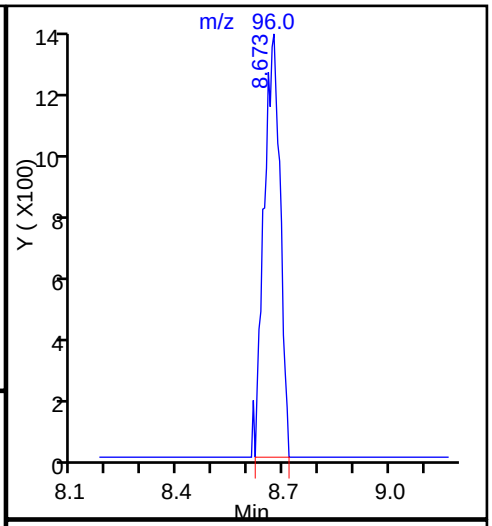
TestAmerica Burlington

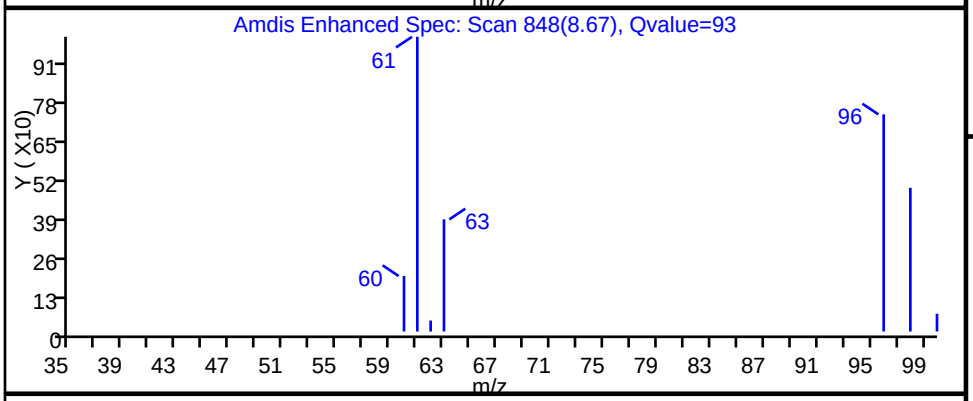
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

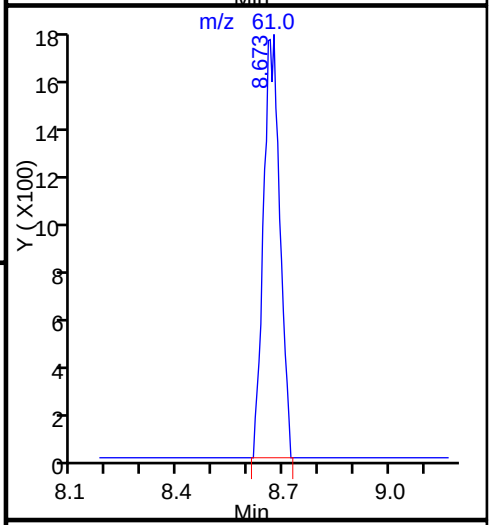
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

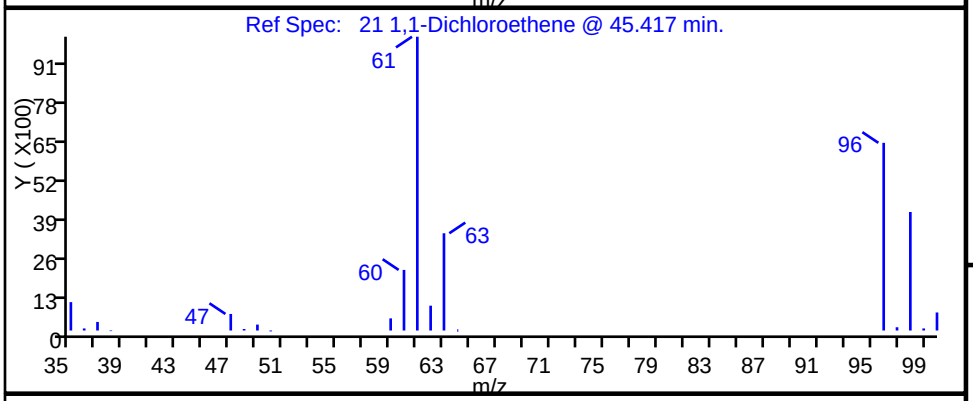
21 1,1-Dichloroethene, CAS: 75-35-4

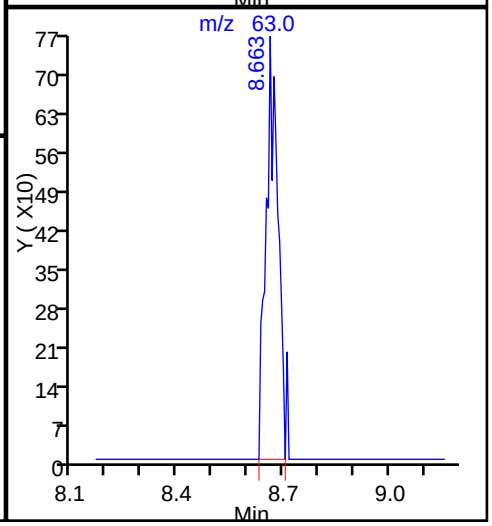


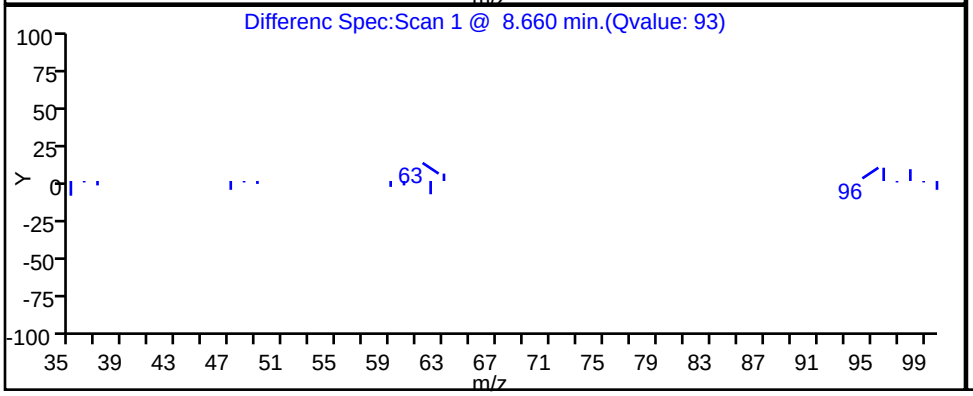












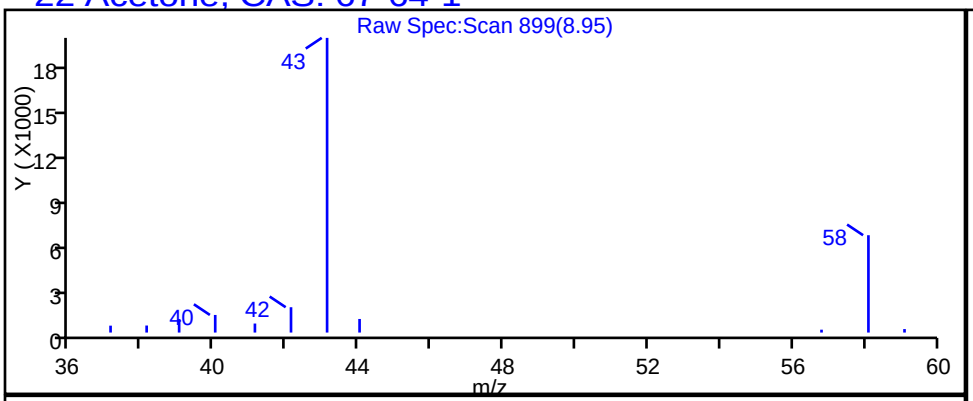
Report Date: 30-Sep-2015 14:16:09 Chrom Revision: 2.2 23-Jul-2015 08:26:08

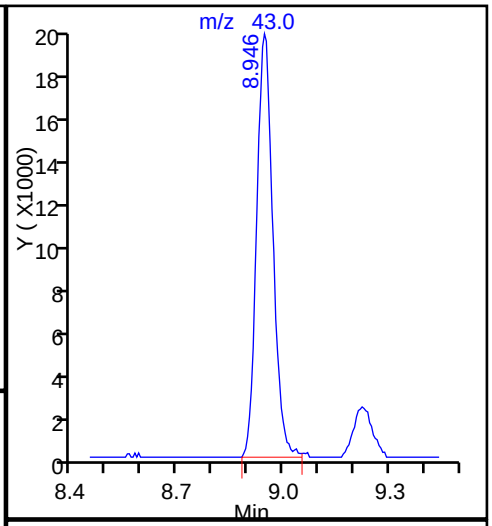
TestAmerica Burlington

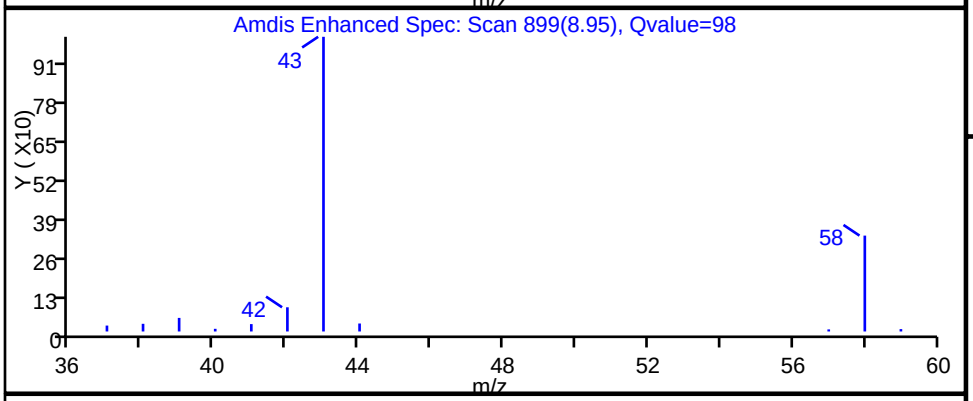
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

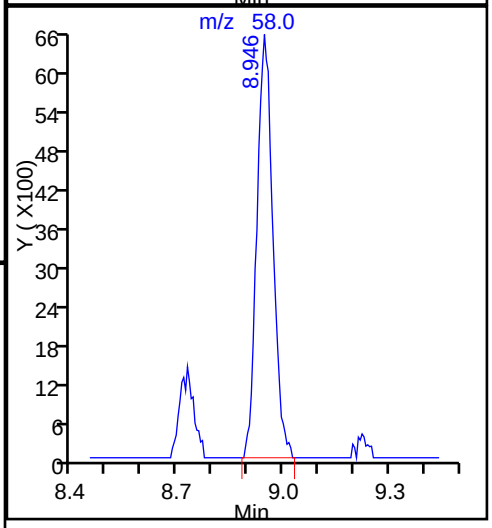
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14
Client ID:	FR-IA07-092315		
Operator ID:	pad	ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

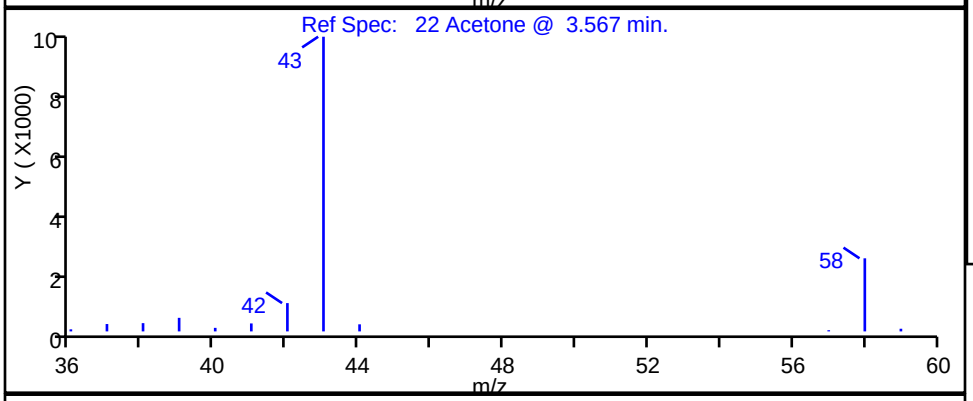
22 Acetone, CAS: 67-64-1

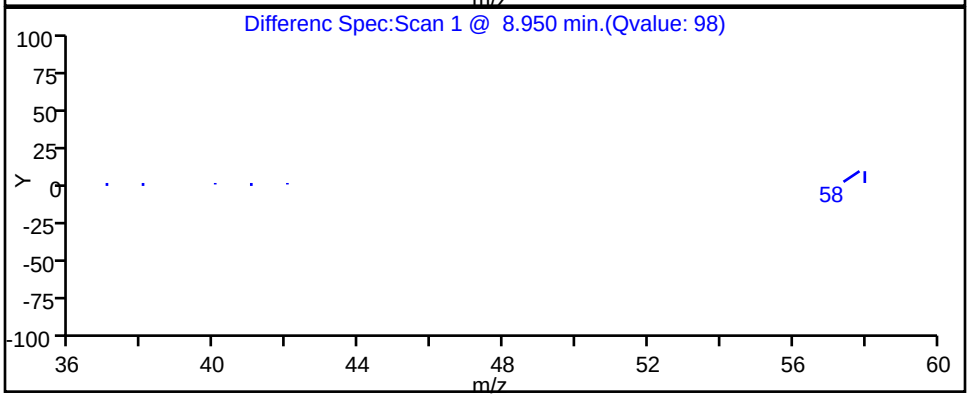












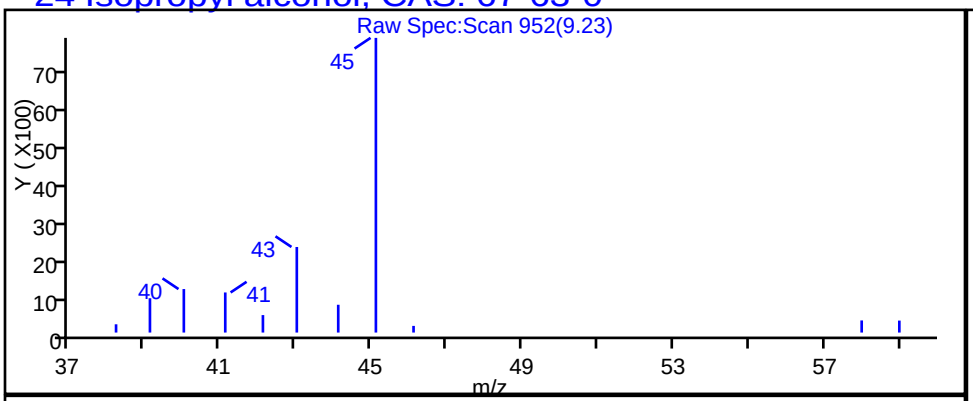
Report Date: 30-Sep-2015 14:16:09 Chrom Revision: 2.2 23-Jul-2015 08:26:08

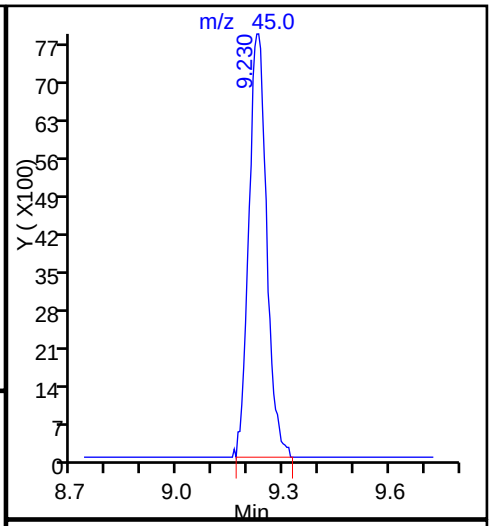
TestAmerica Burlington

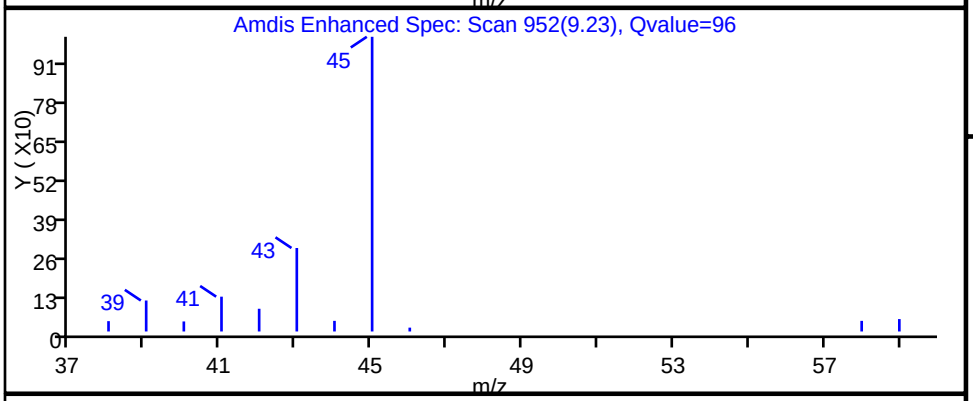
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

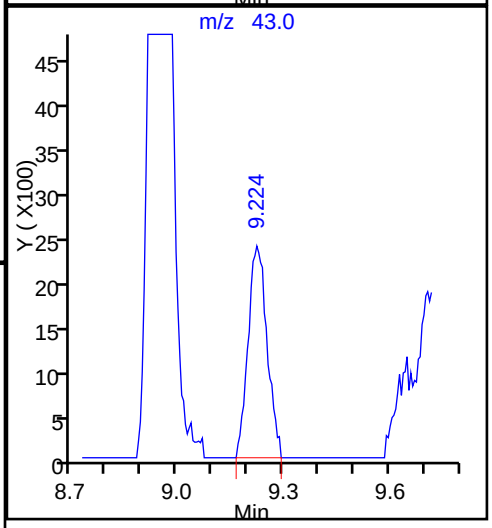
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

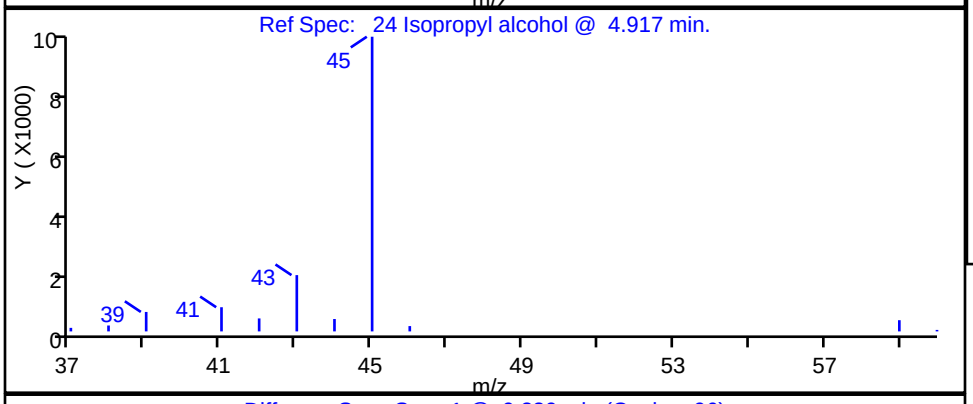
24 Isopropyl alcohol, CAS: 67-63-0

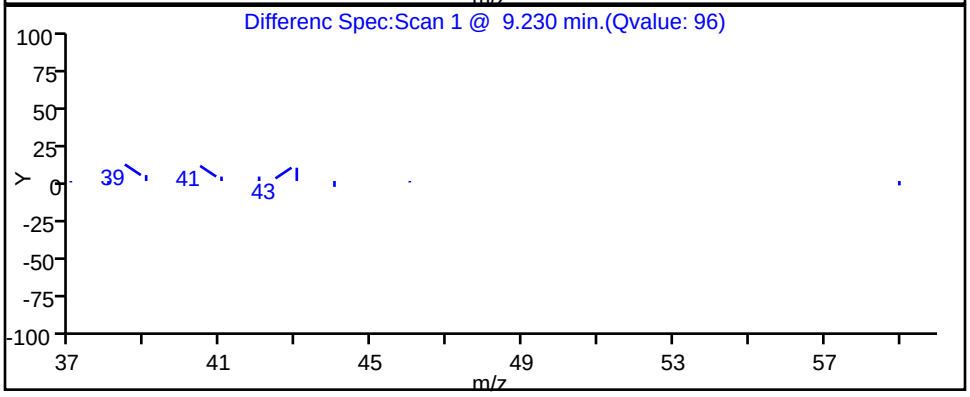












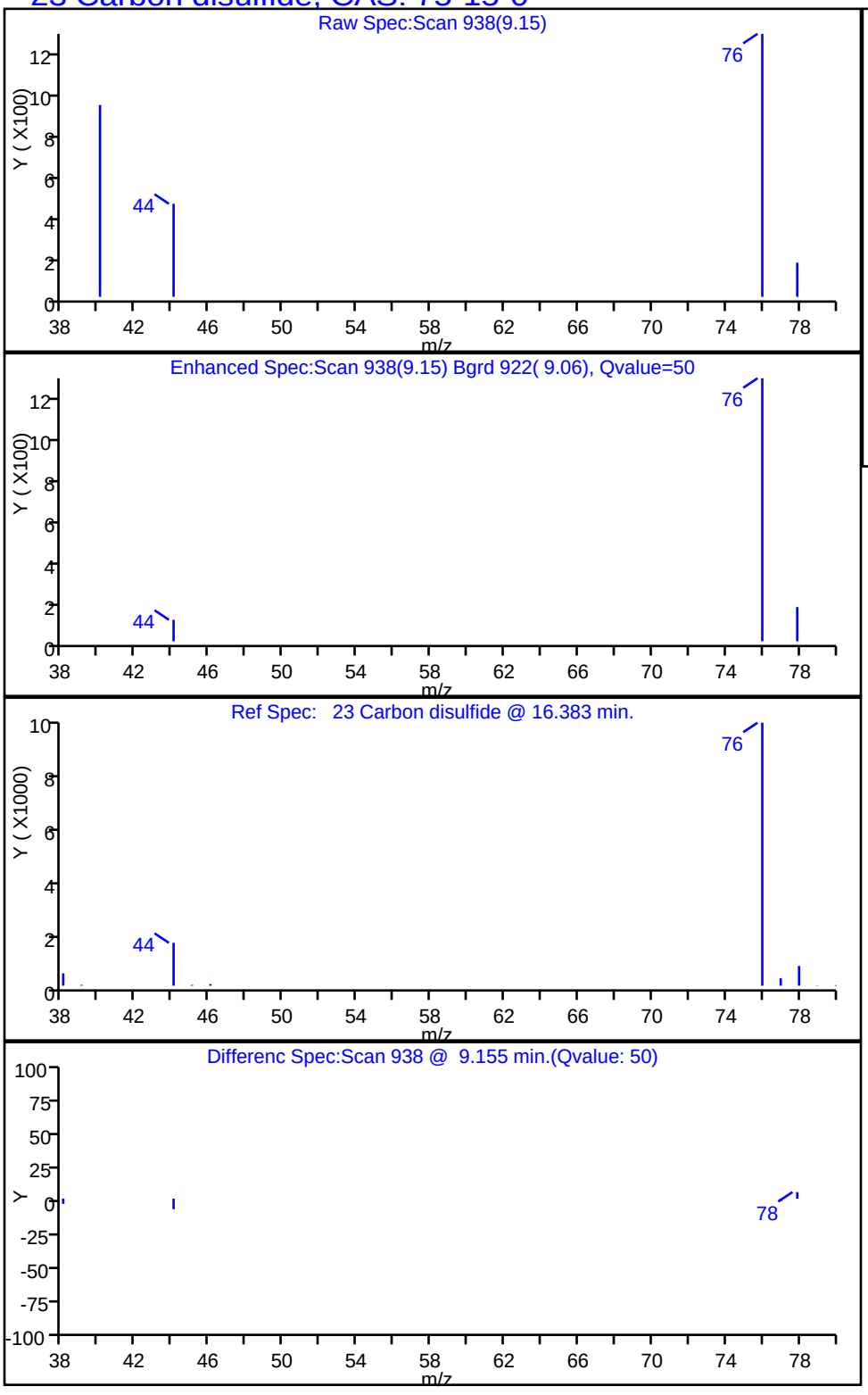
Report Date: 30-Sep-2015 14:16:09 Chrom Revision: 2.2 23-Jul-2015 08:26:08

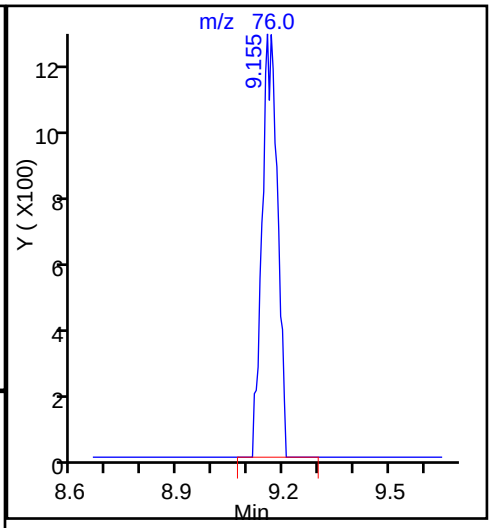
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





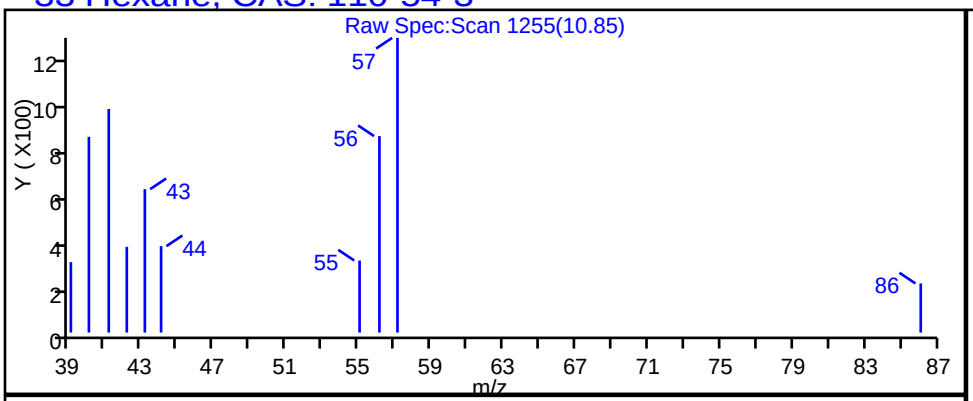
Report Date: 30-Sep-2015 14:16:09 Chrom Revision: 2.2 23-Jul-2015 08:26:08

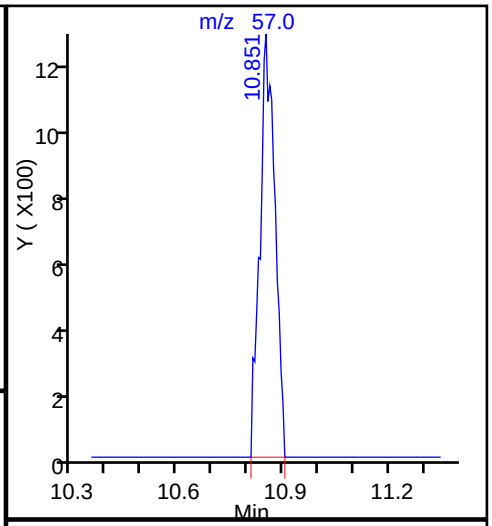
TestAmerica Burlington

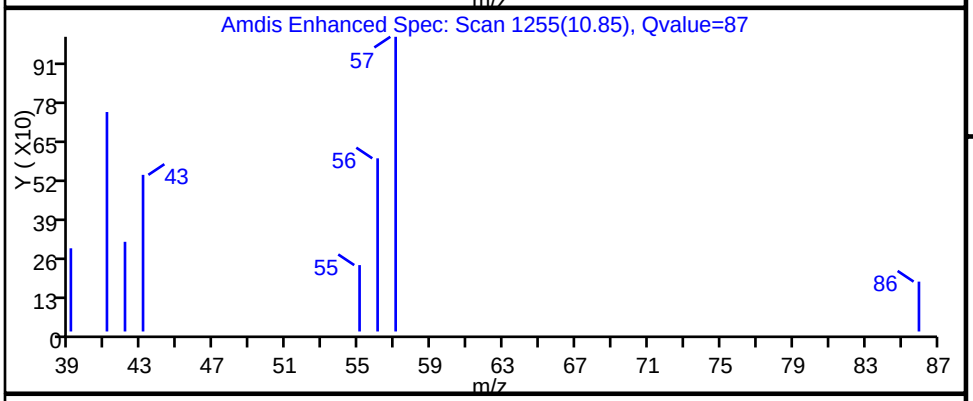
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

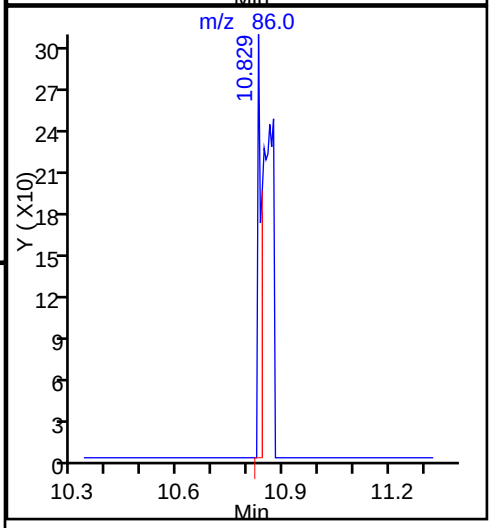
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

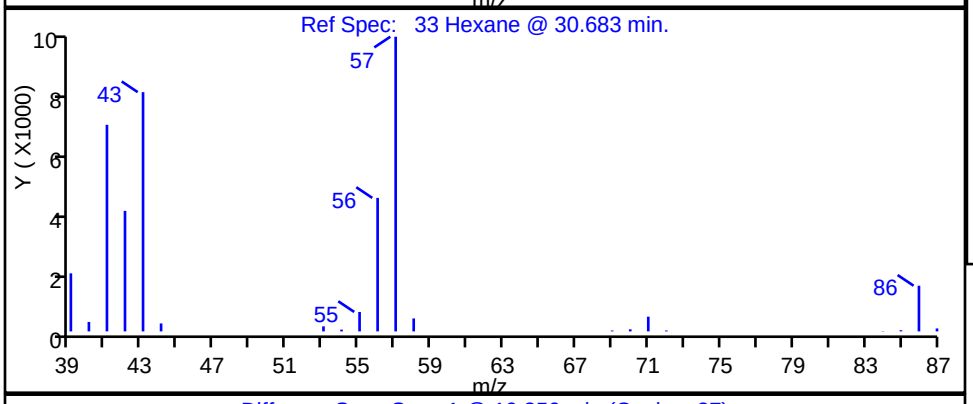
33 Hexane, CAS: 110-54-3

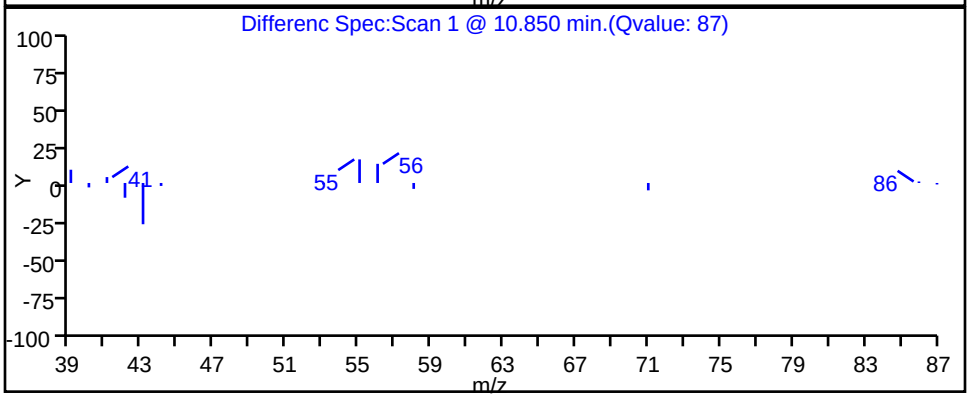












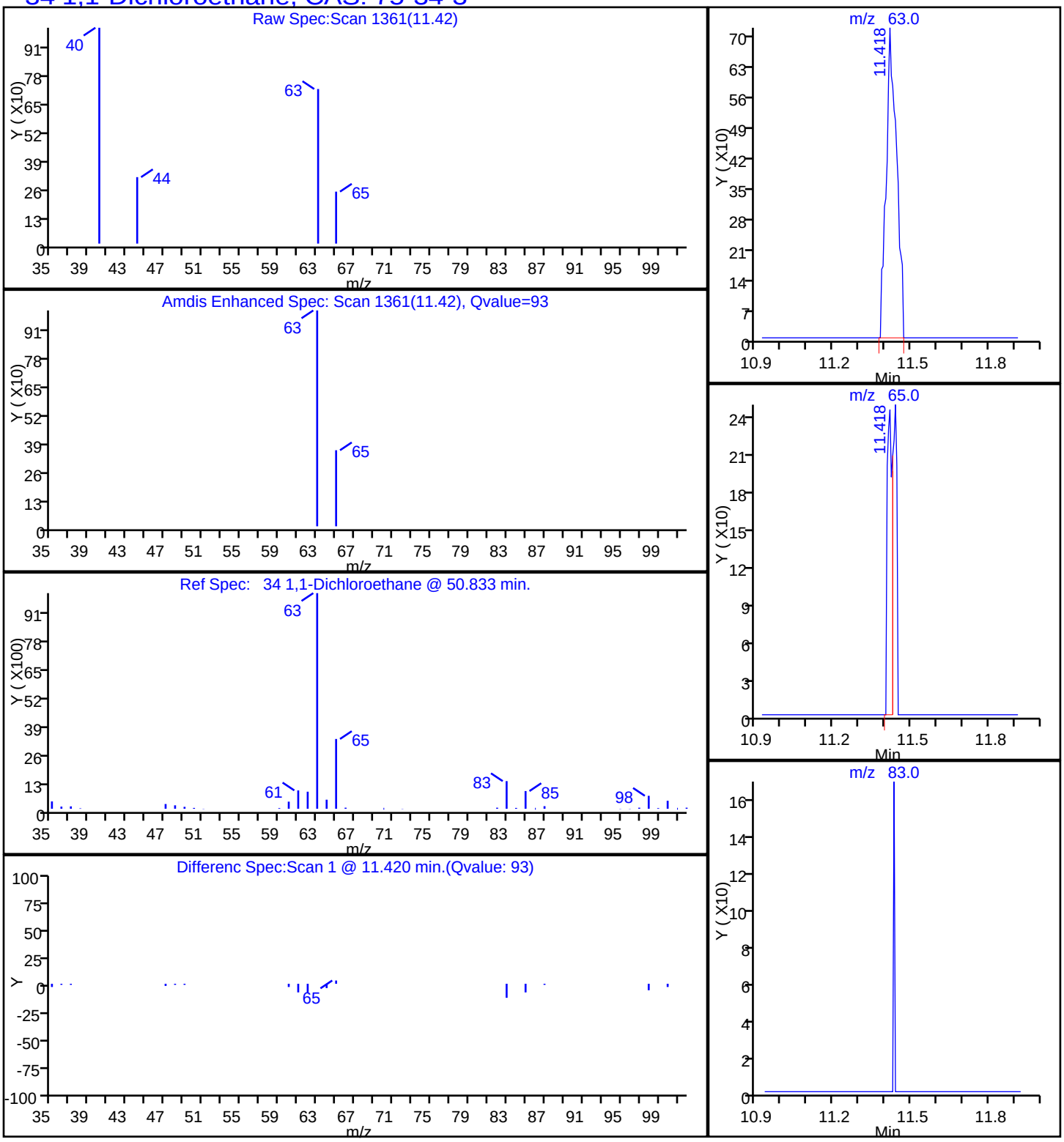
Report Date: 30-Sep-2015 14:16:09 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

34 1,1-Dichloroethane, CAS: 75-34-3



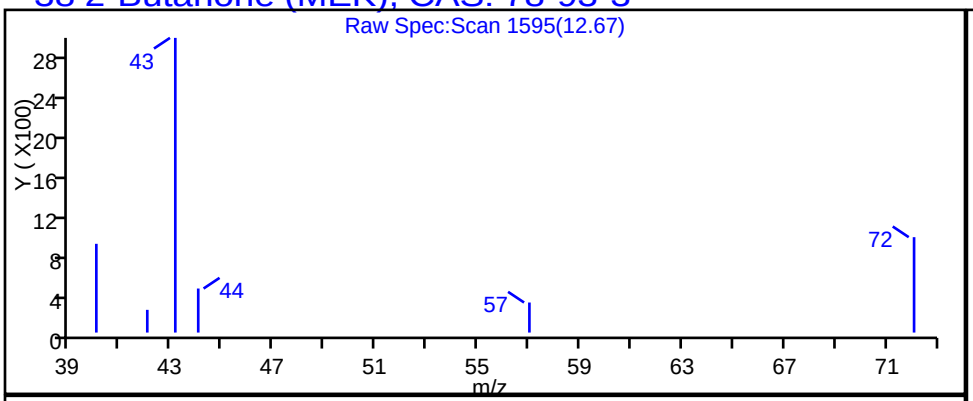
Report Date: 30-Sep-2015 14:16:10 Chrom Revision: 2.2 23-Jul-2015 08:26:08

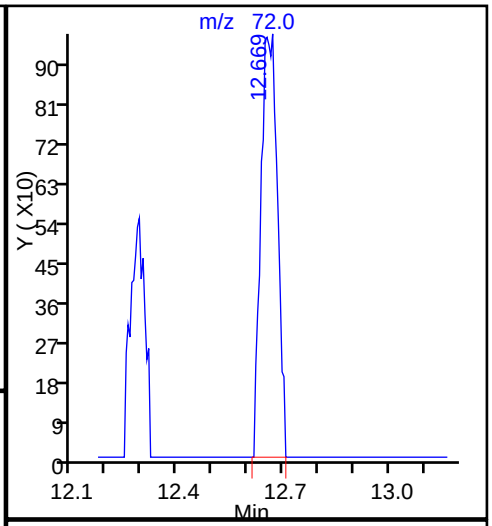
TestAmerica Burlington

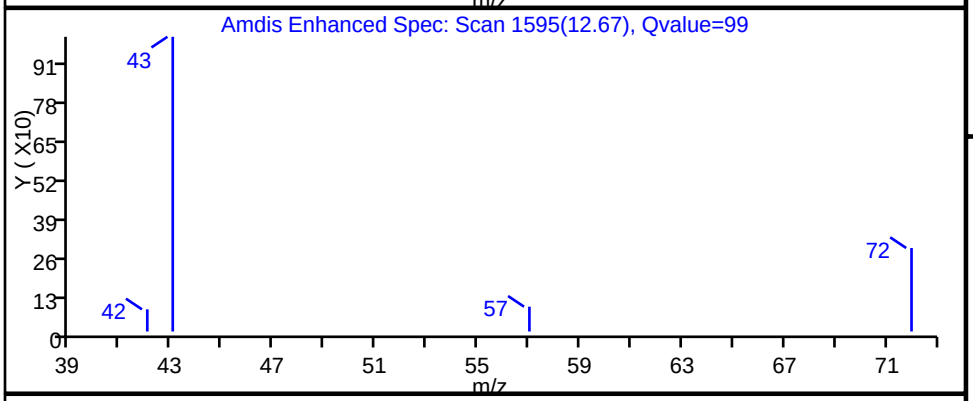
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

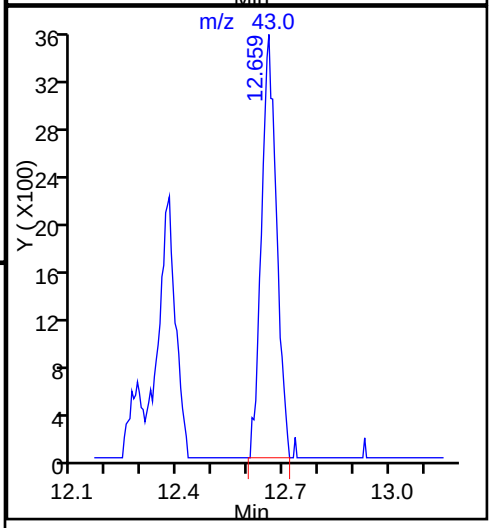
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

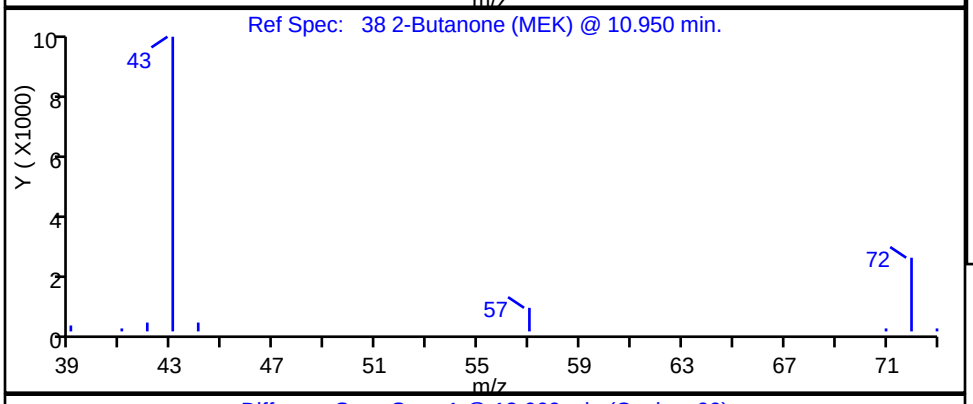
38 2-Butanone (MEK), CAS: 78-93-3

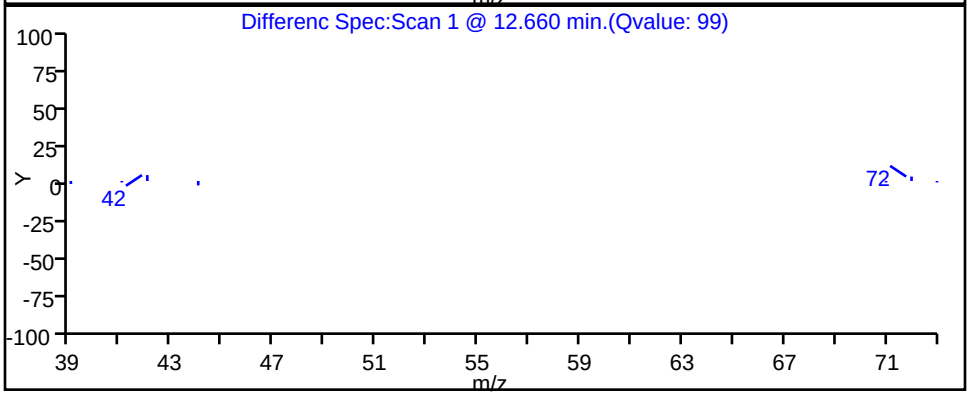












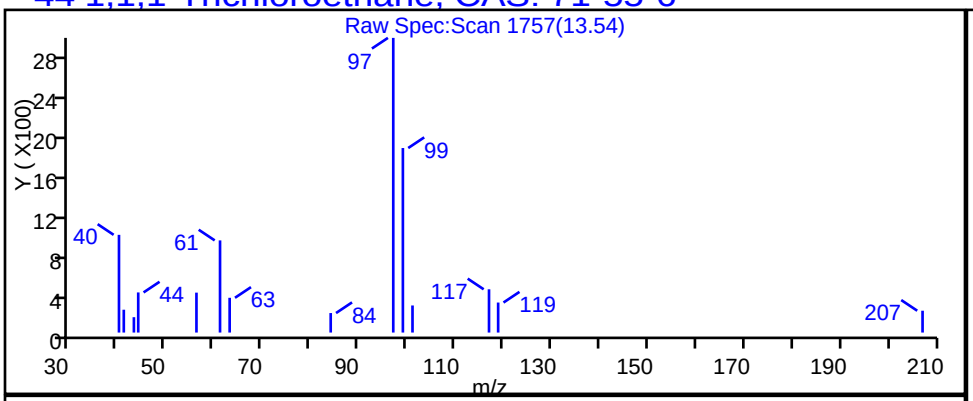
Report Date: 30-Sep-2015 14:16:10 Chrom Revision: 2.2 23-Jul-2015 08:26:08

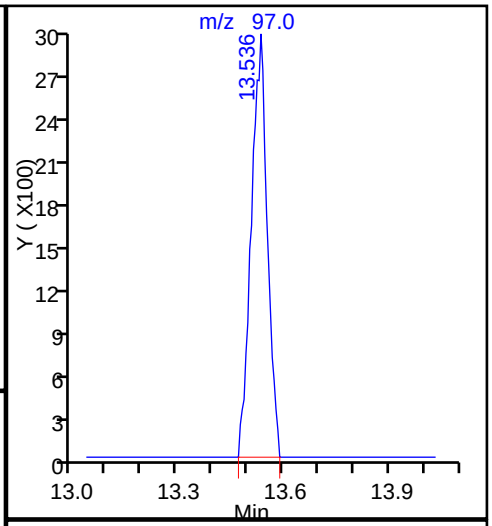
TestAmerica Burlington

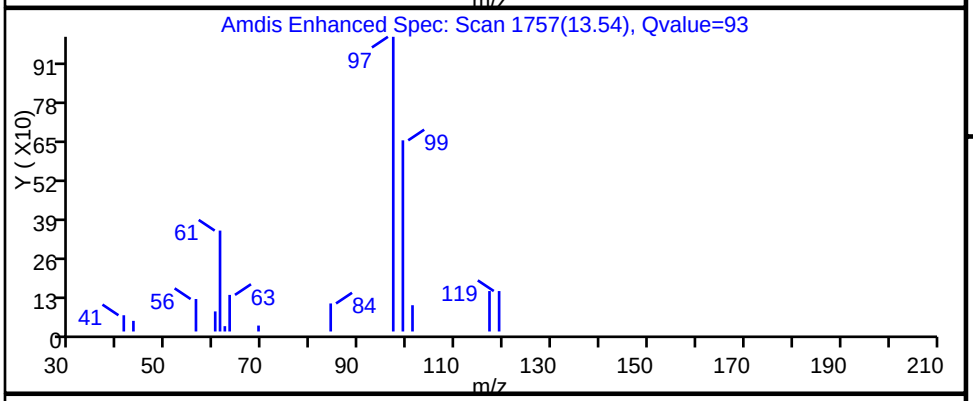
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

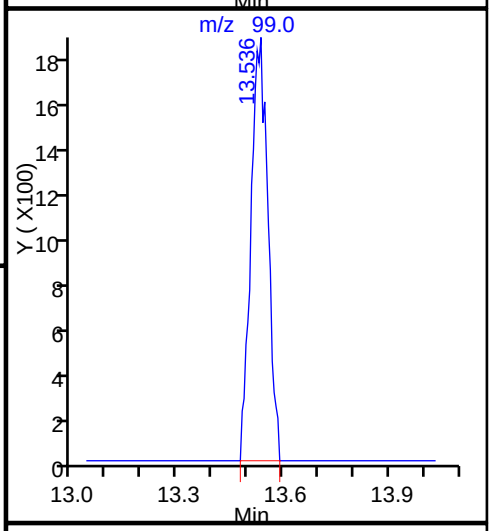
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

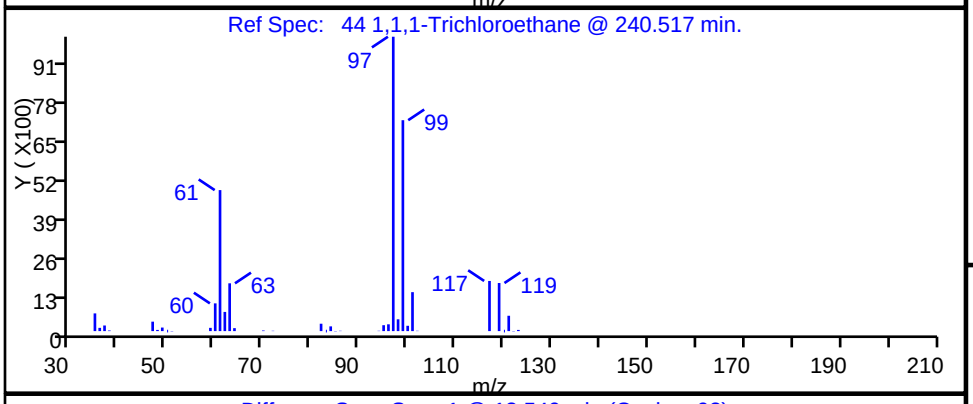
44 1,1,1-Trichloroethane, CAS: 71-55-6

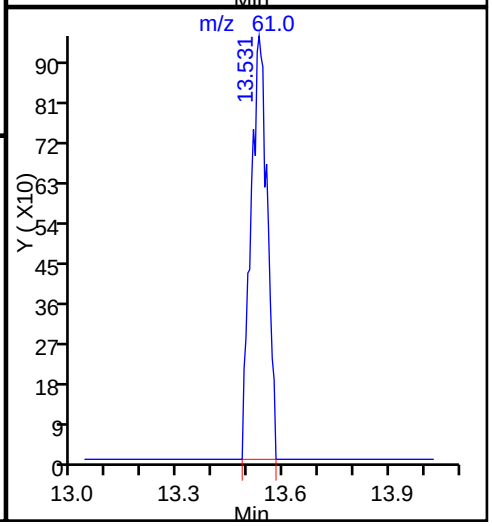


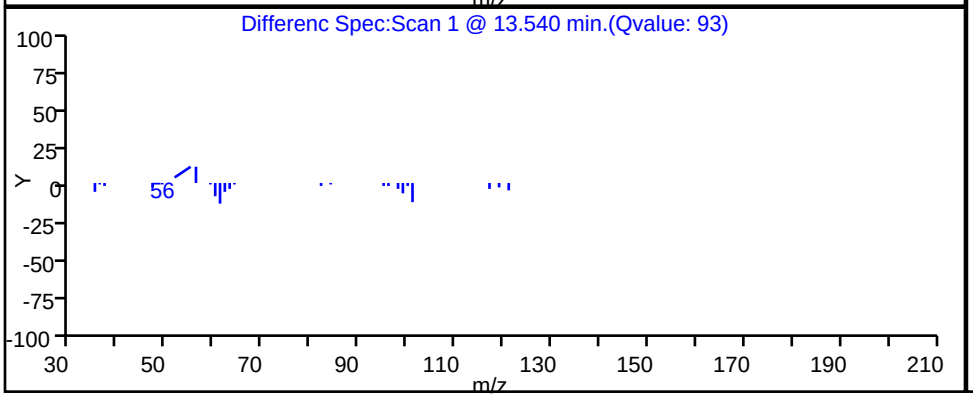










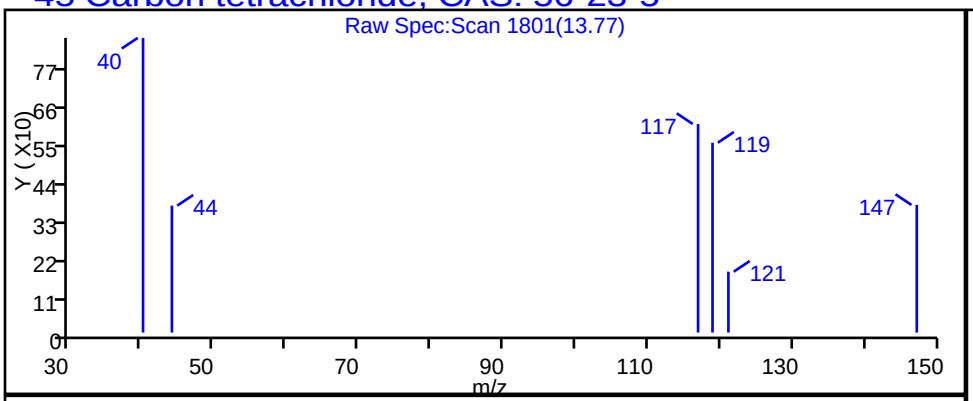


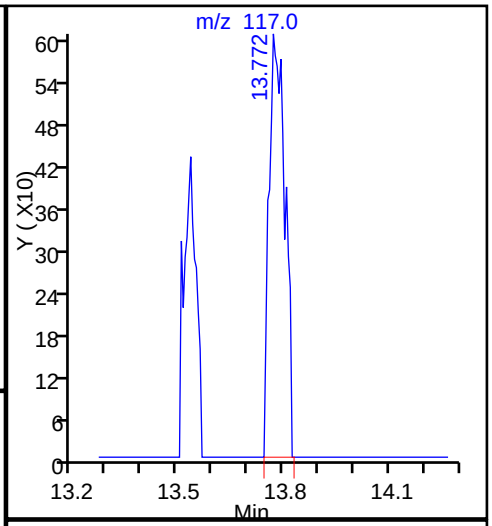
Report Date: 30-Sep-2015 14:16:10 Chrom Revision: 2.2 23-Jul-2015 08:26:08

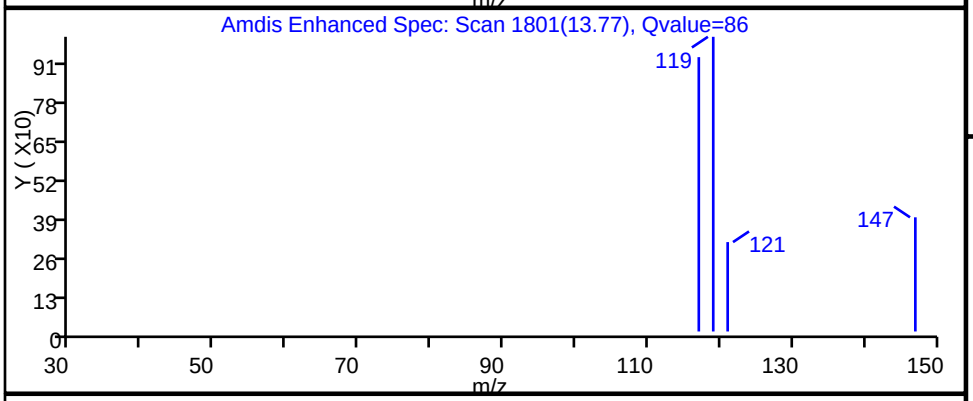
TestAmerica Burlington

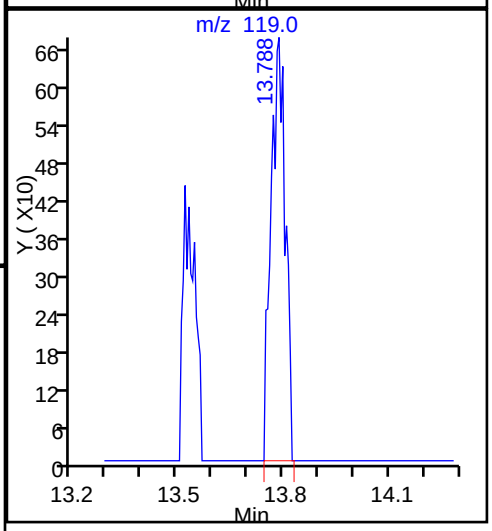
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

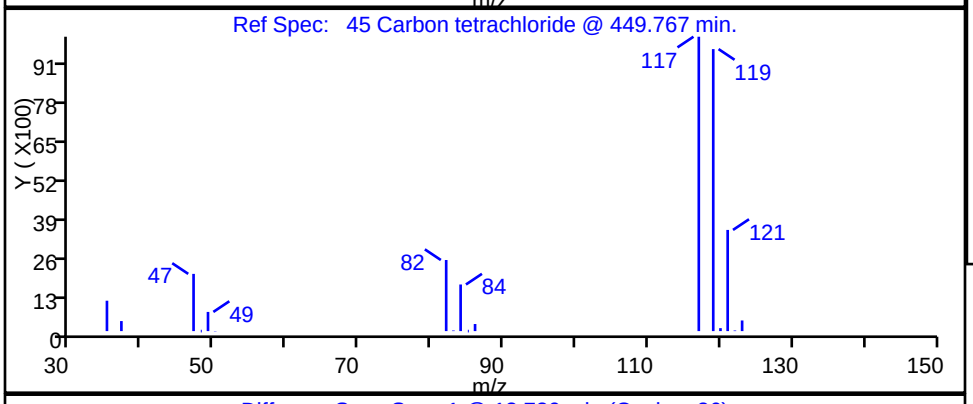
45 Carbon tetrachloride, CAS: 56-23-5

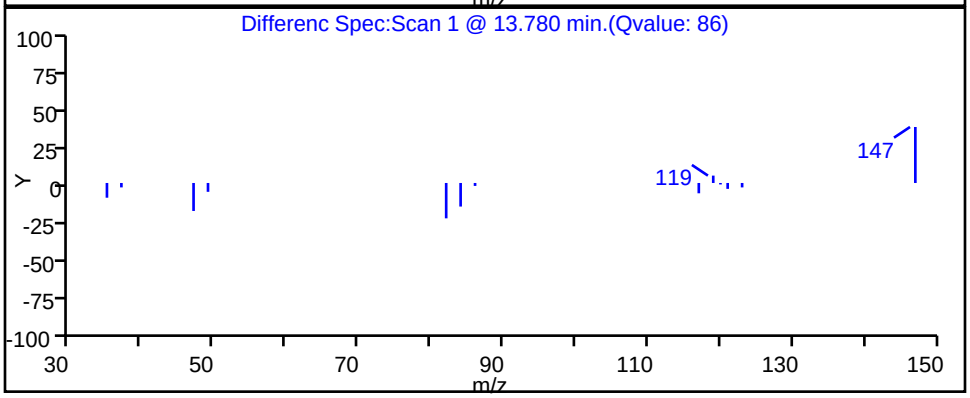










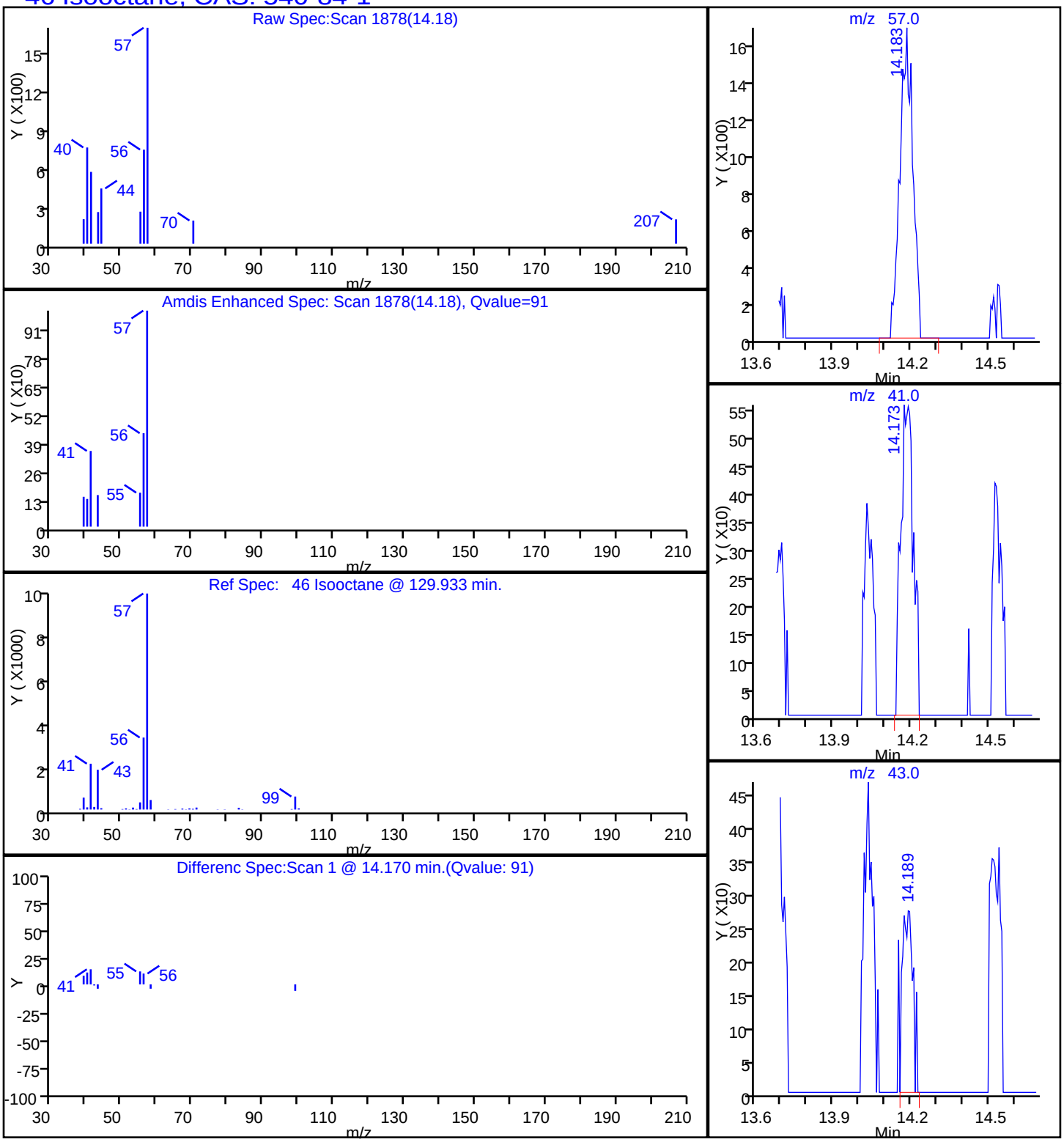


Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1



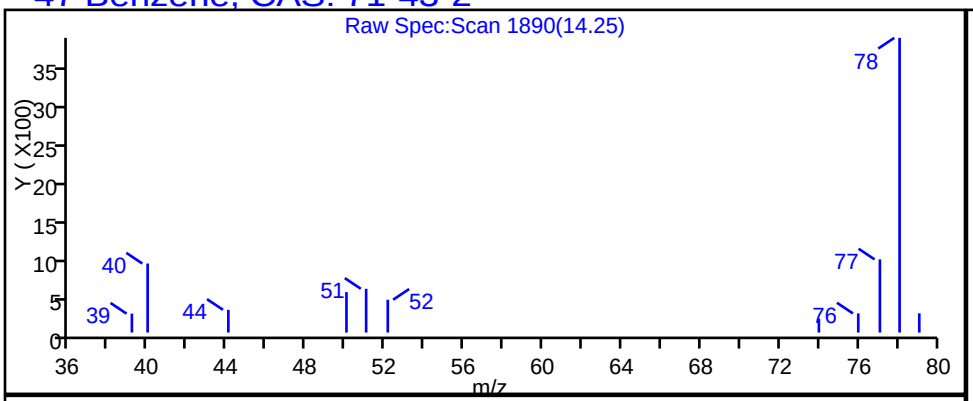
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

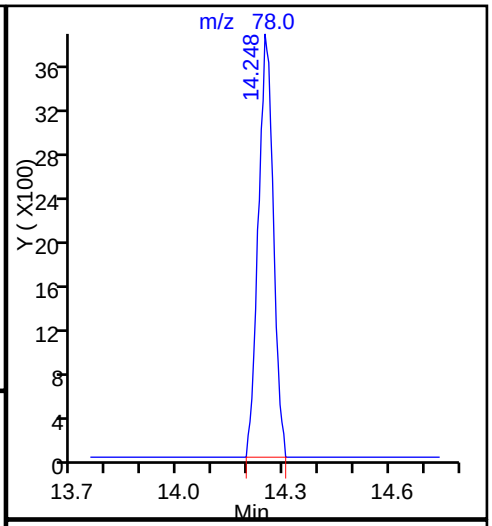
TestAmerica Burlington

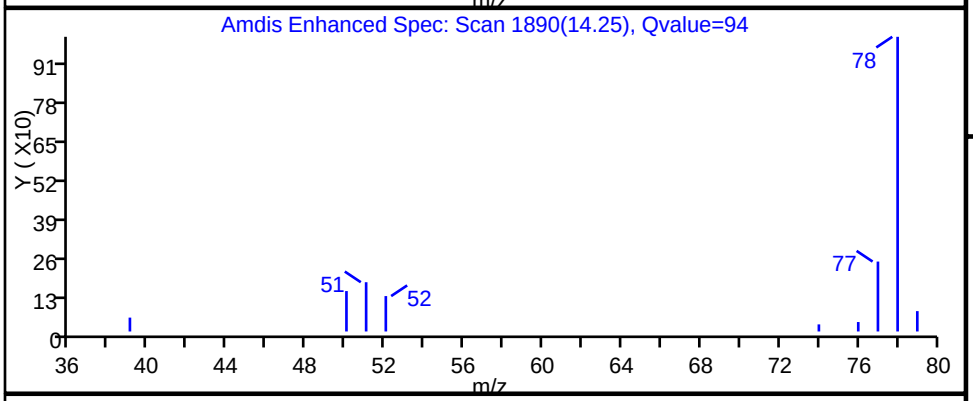
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

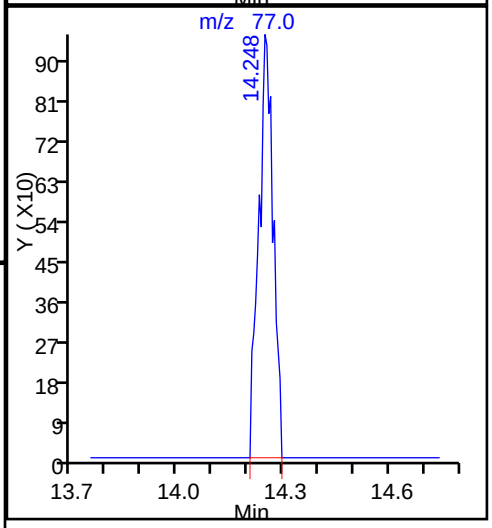
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

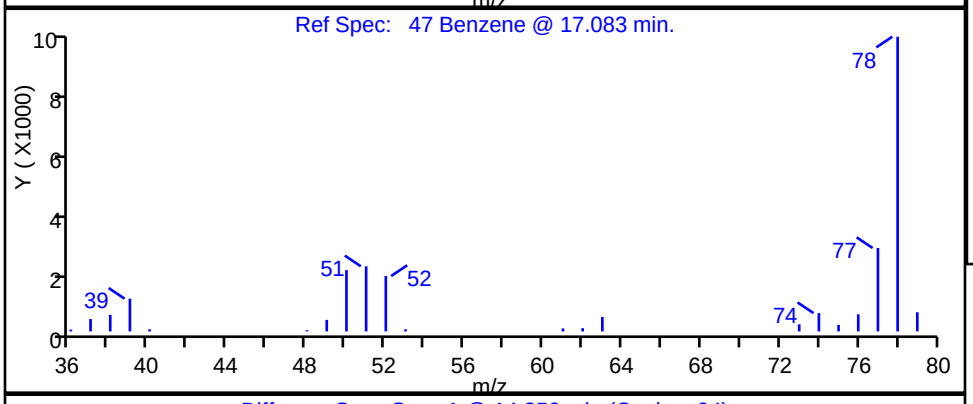
47 Benzene, CAS: 71-43-2

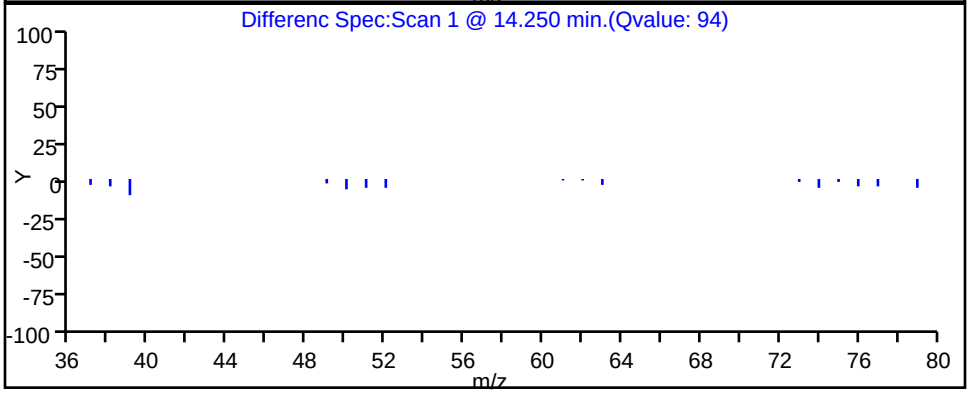












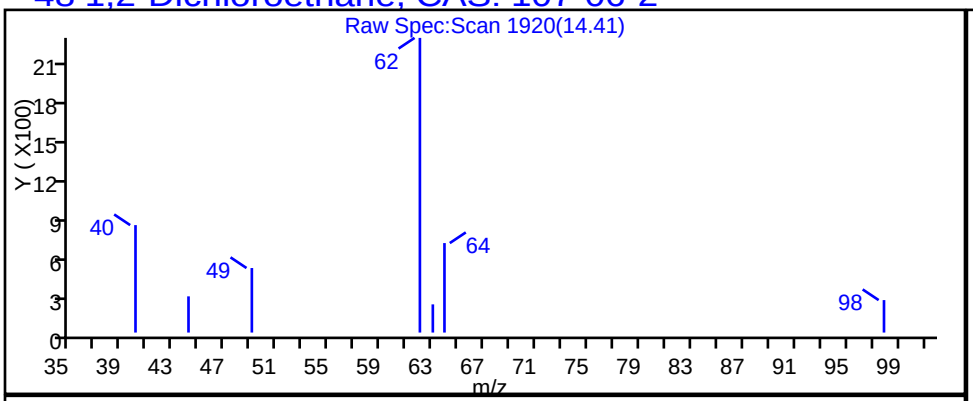
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

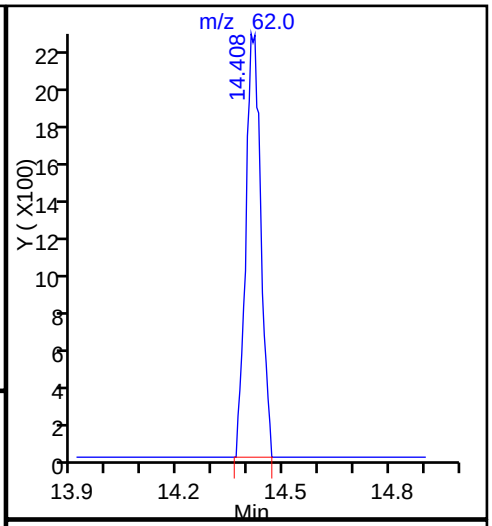
TestAmerica Burlington

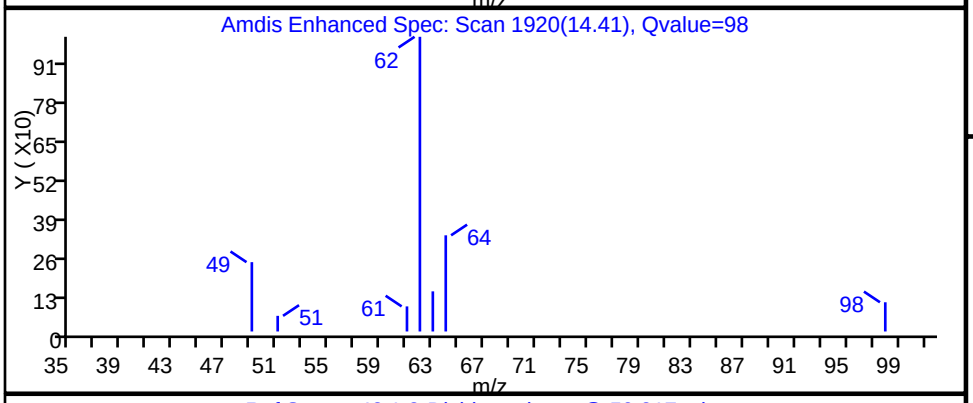
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

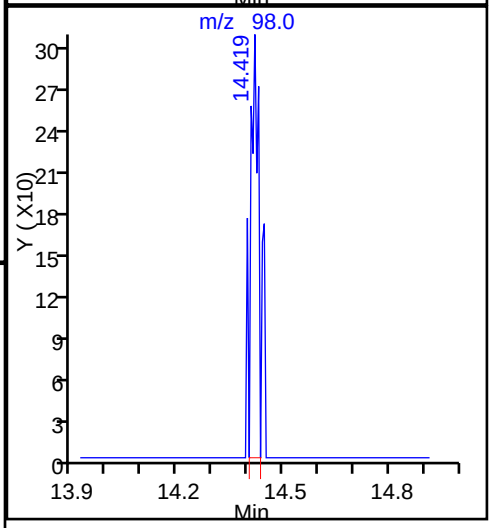
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

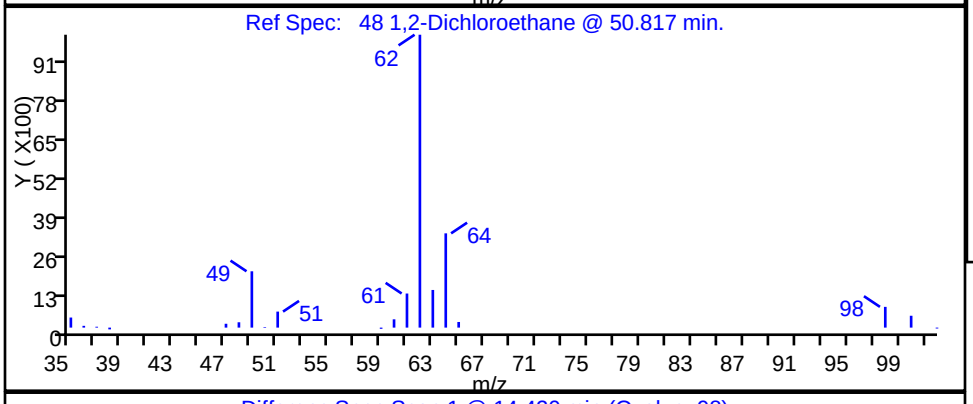
48 1,2-Dichloroethane, CAS: 107-06-2

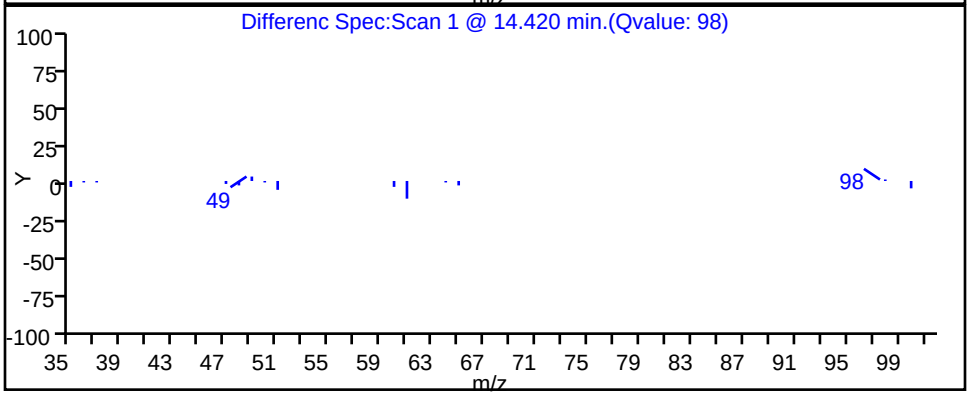












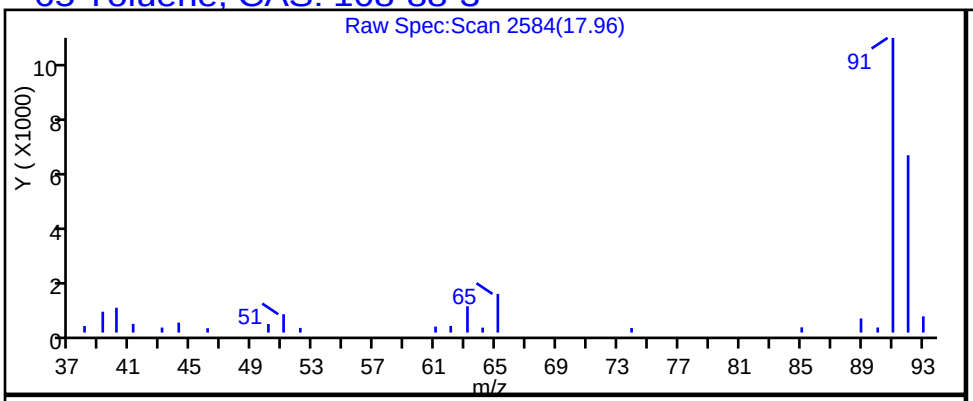
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

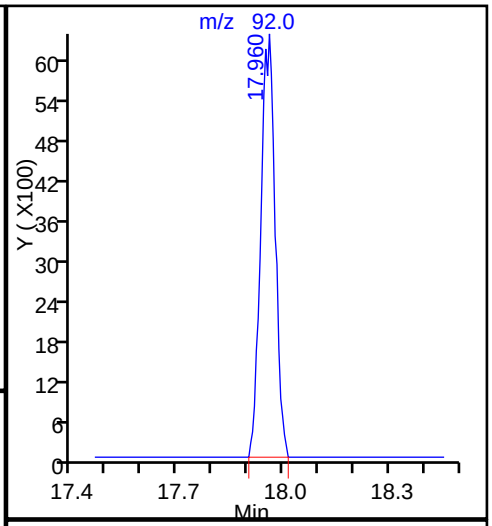
TestAmerica Burlington

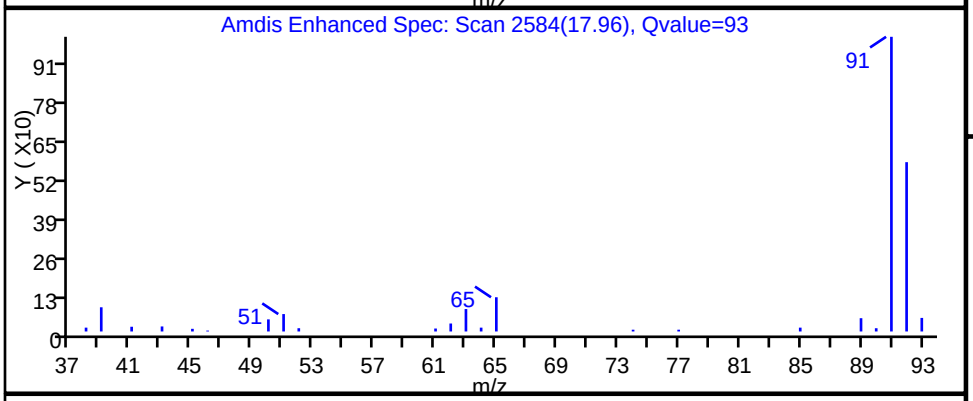
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

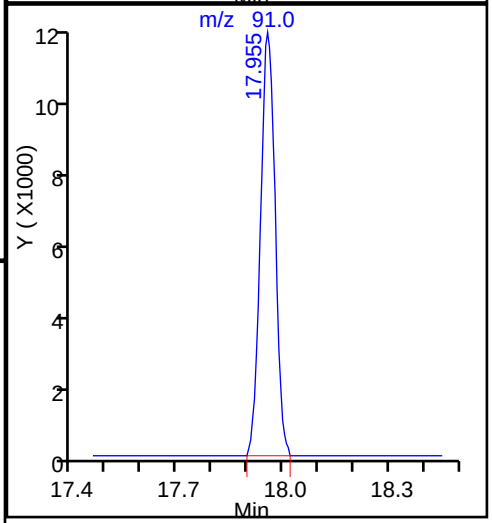
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

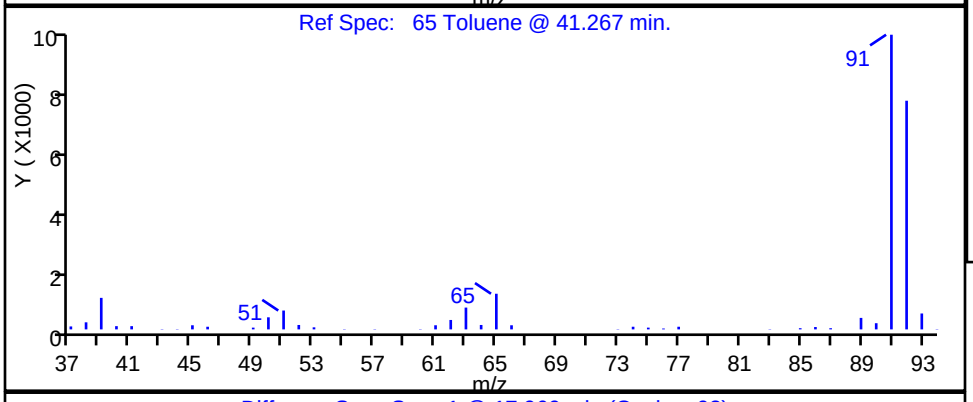
65 Toluene, CAS: 108-88-3

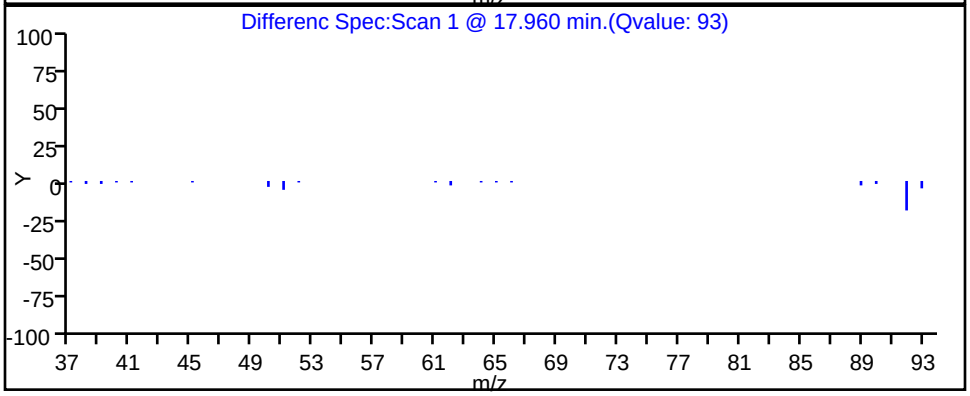












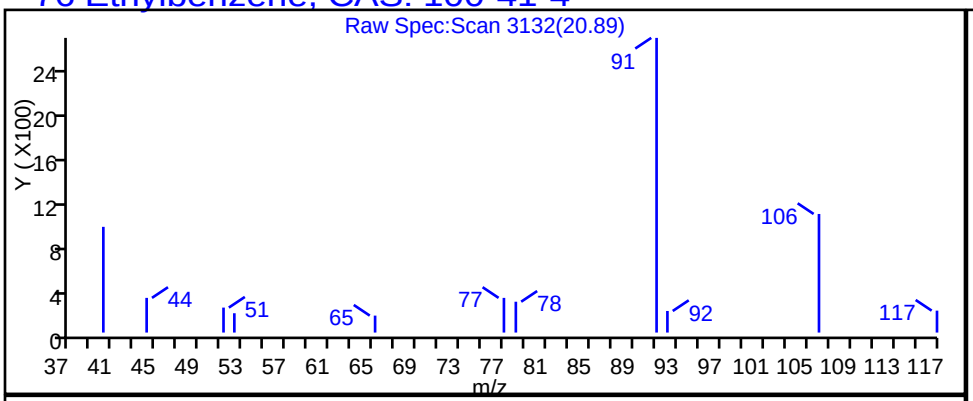
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

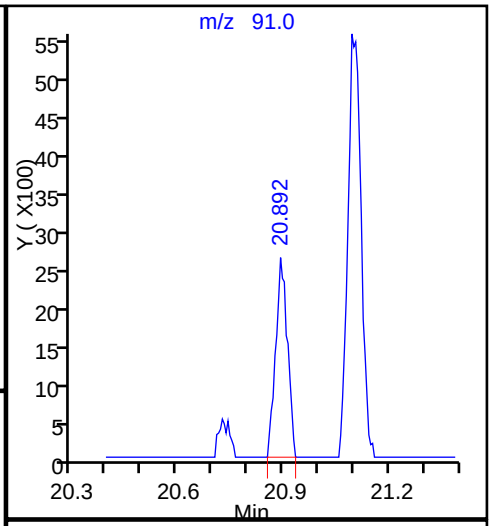
TestAmerica Burlington

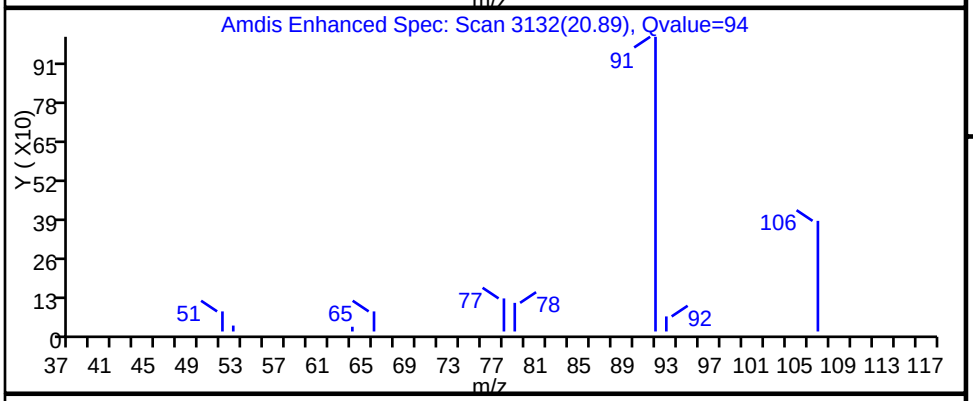
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

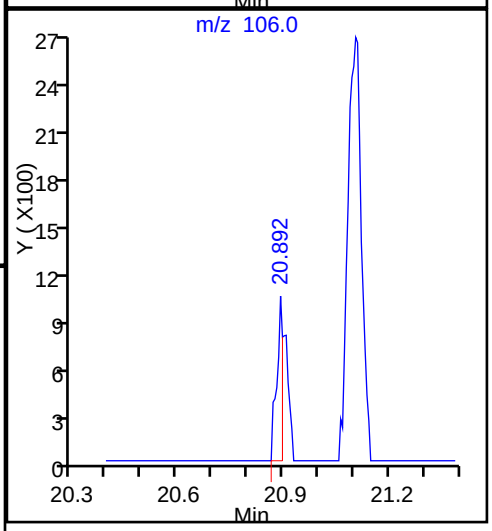
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

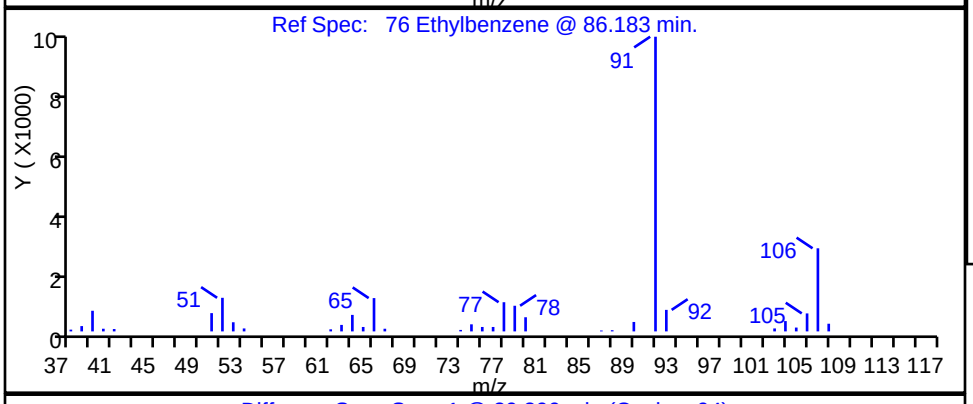
76 Ethylbenzene, CAS: 100-41-4

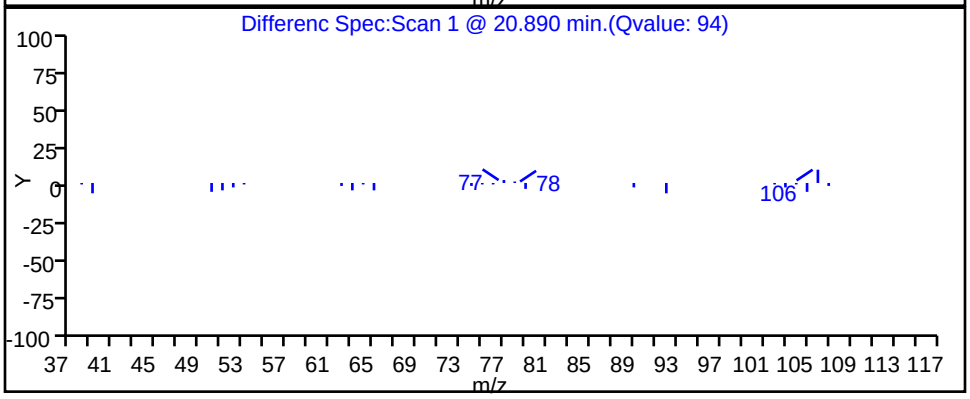










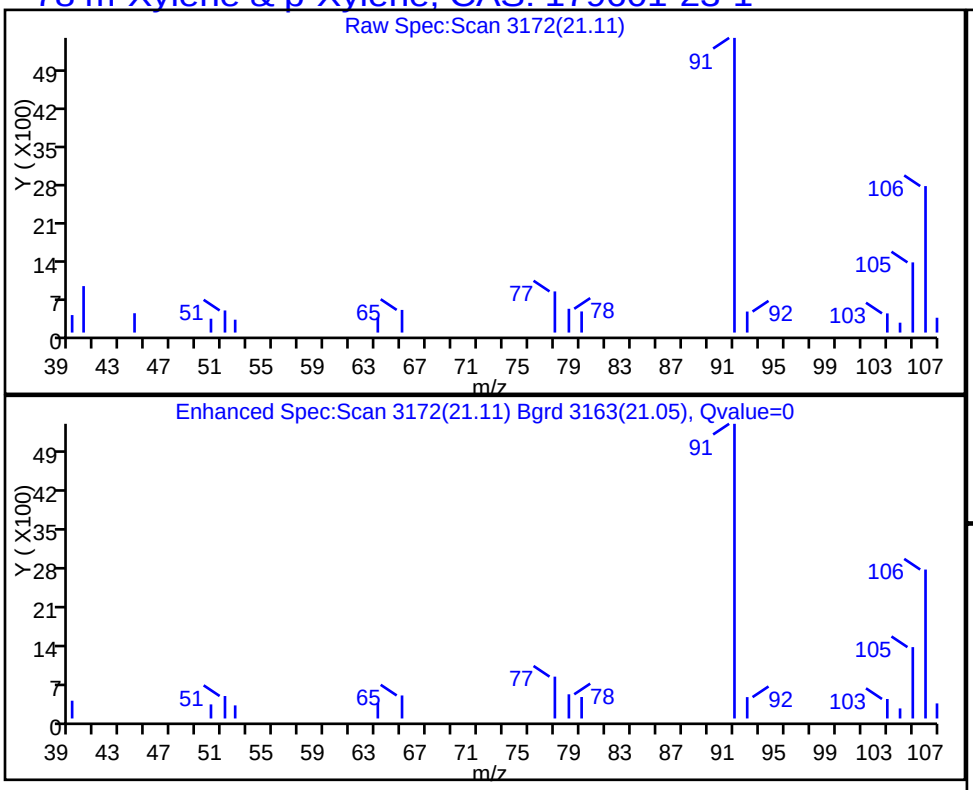


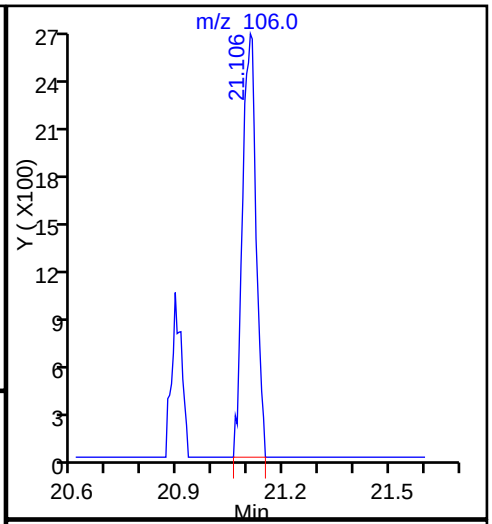
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

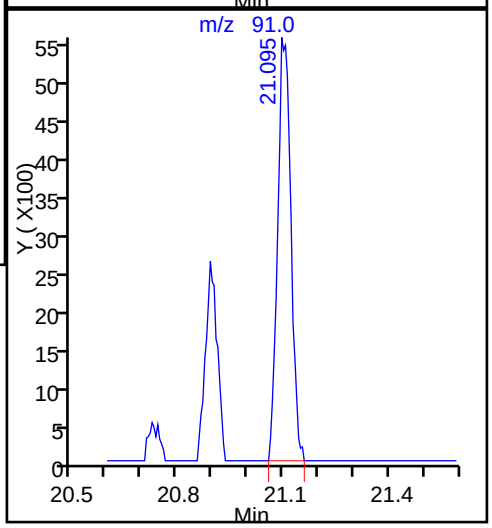
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







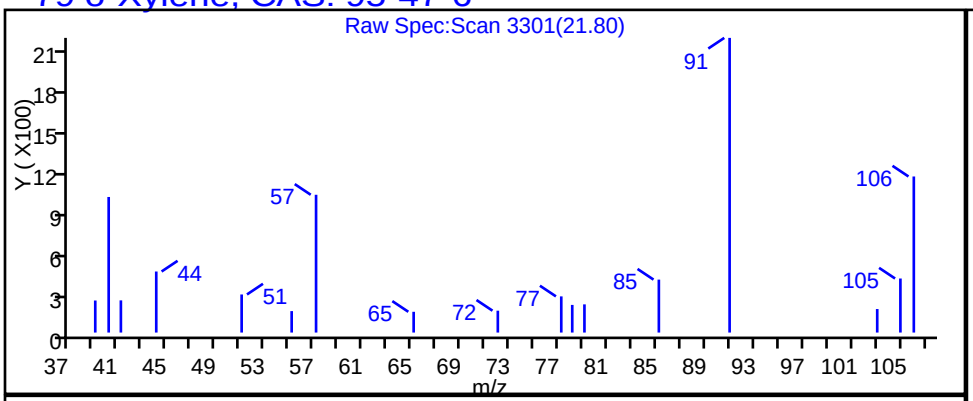
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

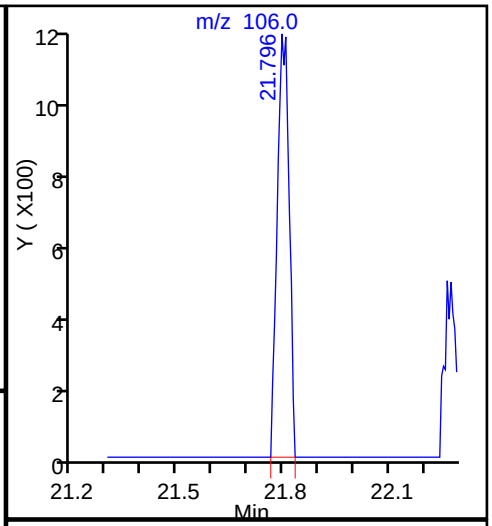
TestAmerica Burlington

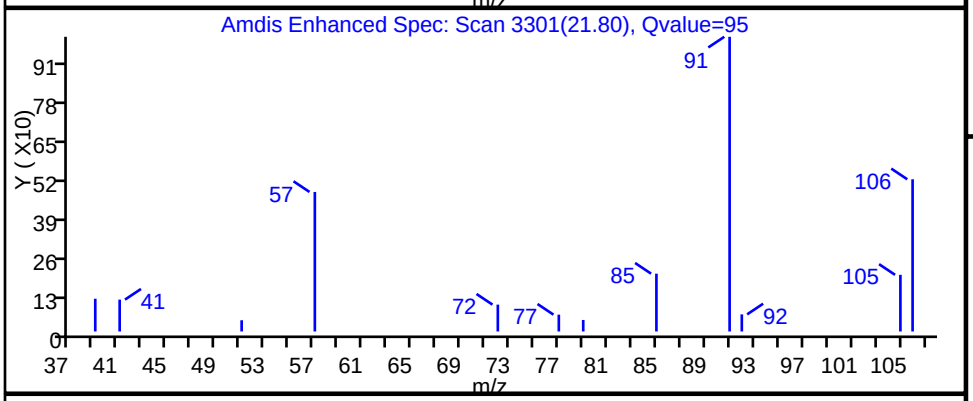
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

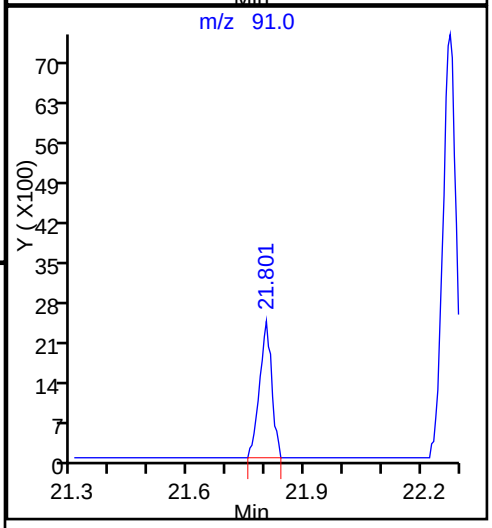
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

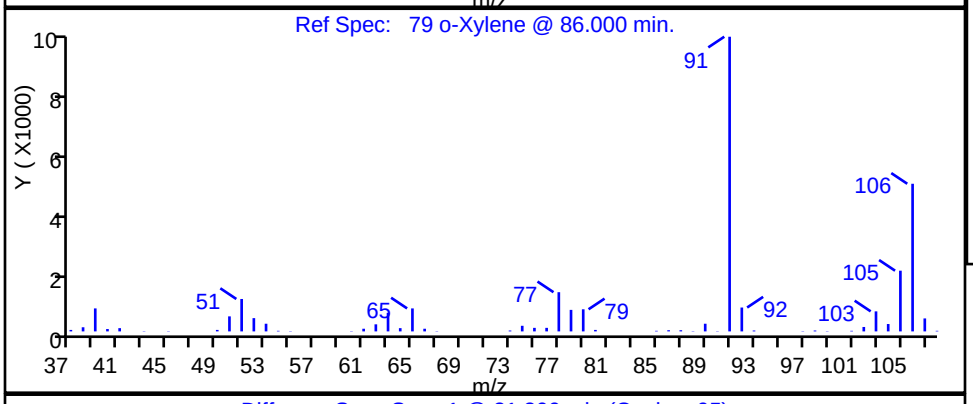
79 o-Xylene, CAS: 95-47-6

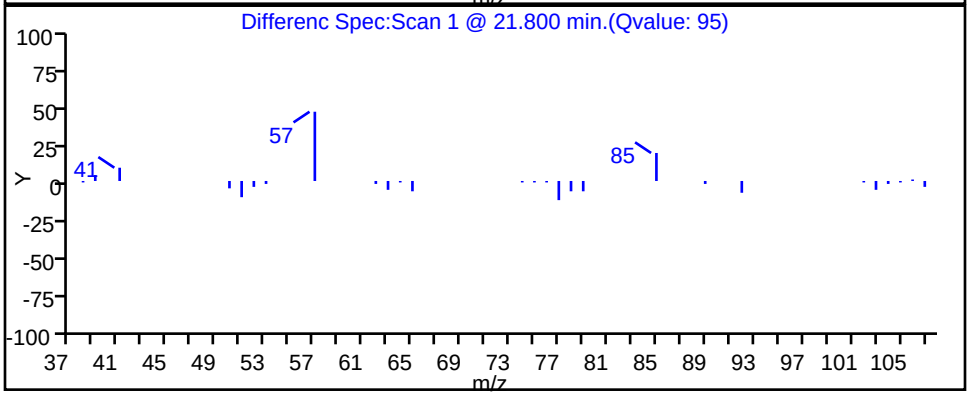












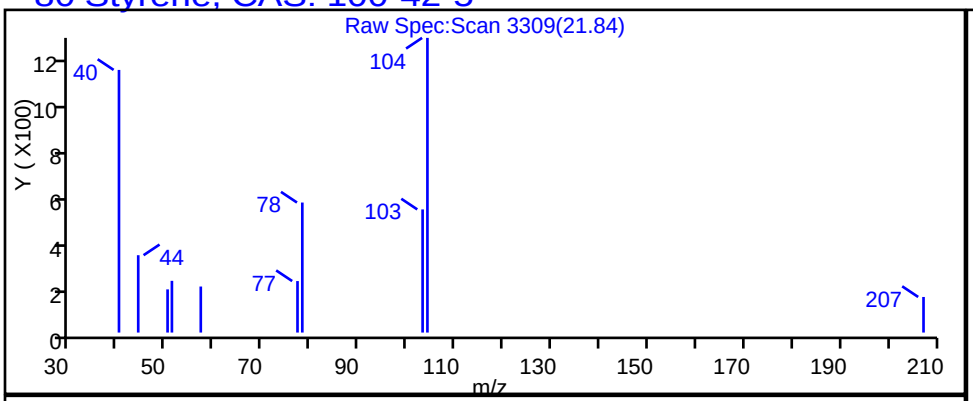
Report Date: 30-Sep-2015 14:16:11 Chrom Revision: 2.2 23-Jul-2015 08:26:08

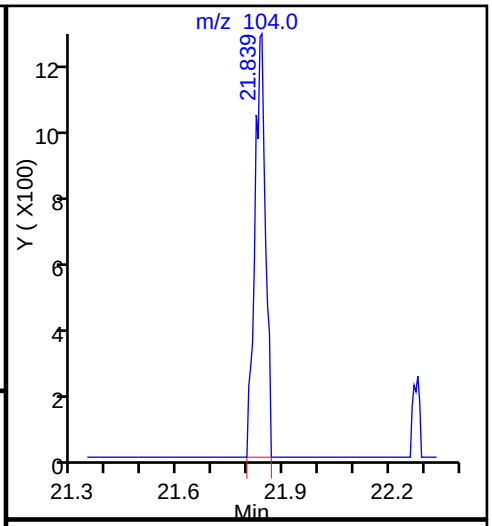
TestAmerica Burlington

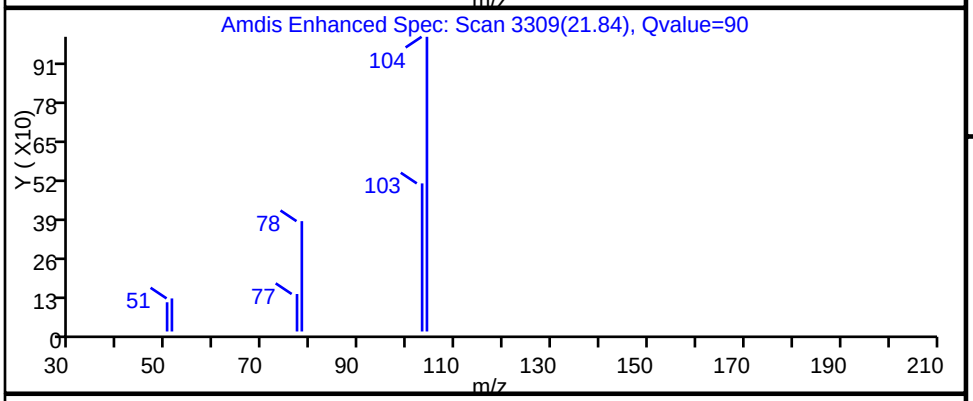
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d

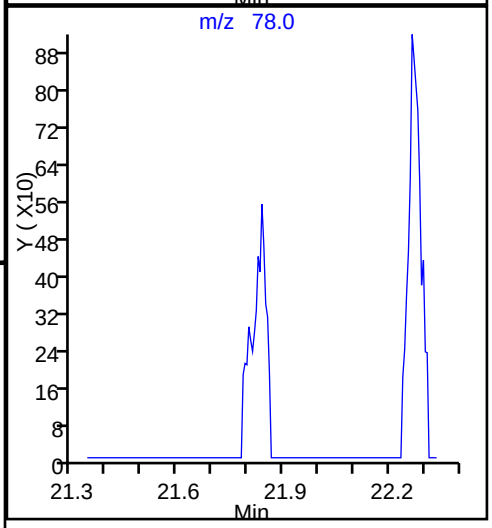
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

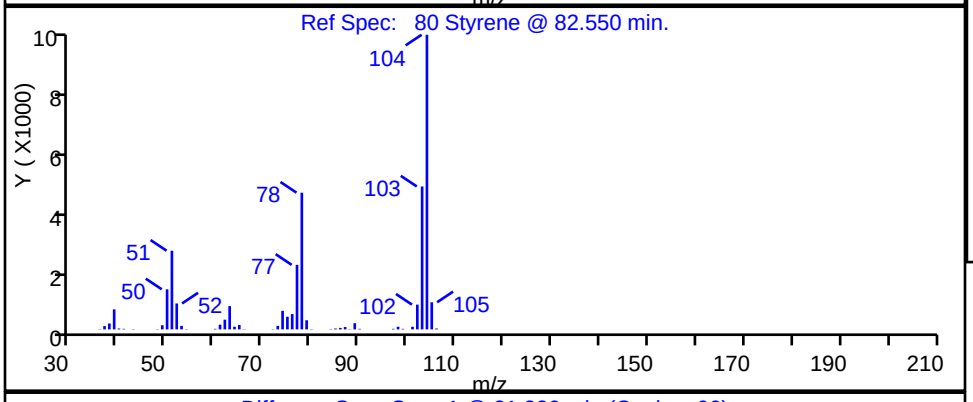
80 Styrene, CAS: 100-42-5

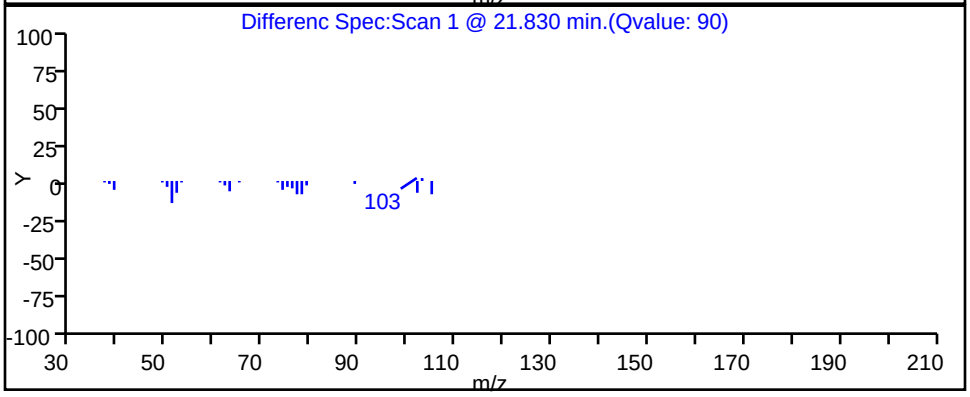










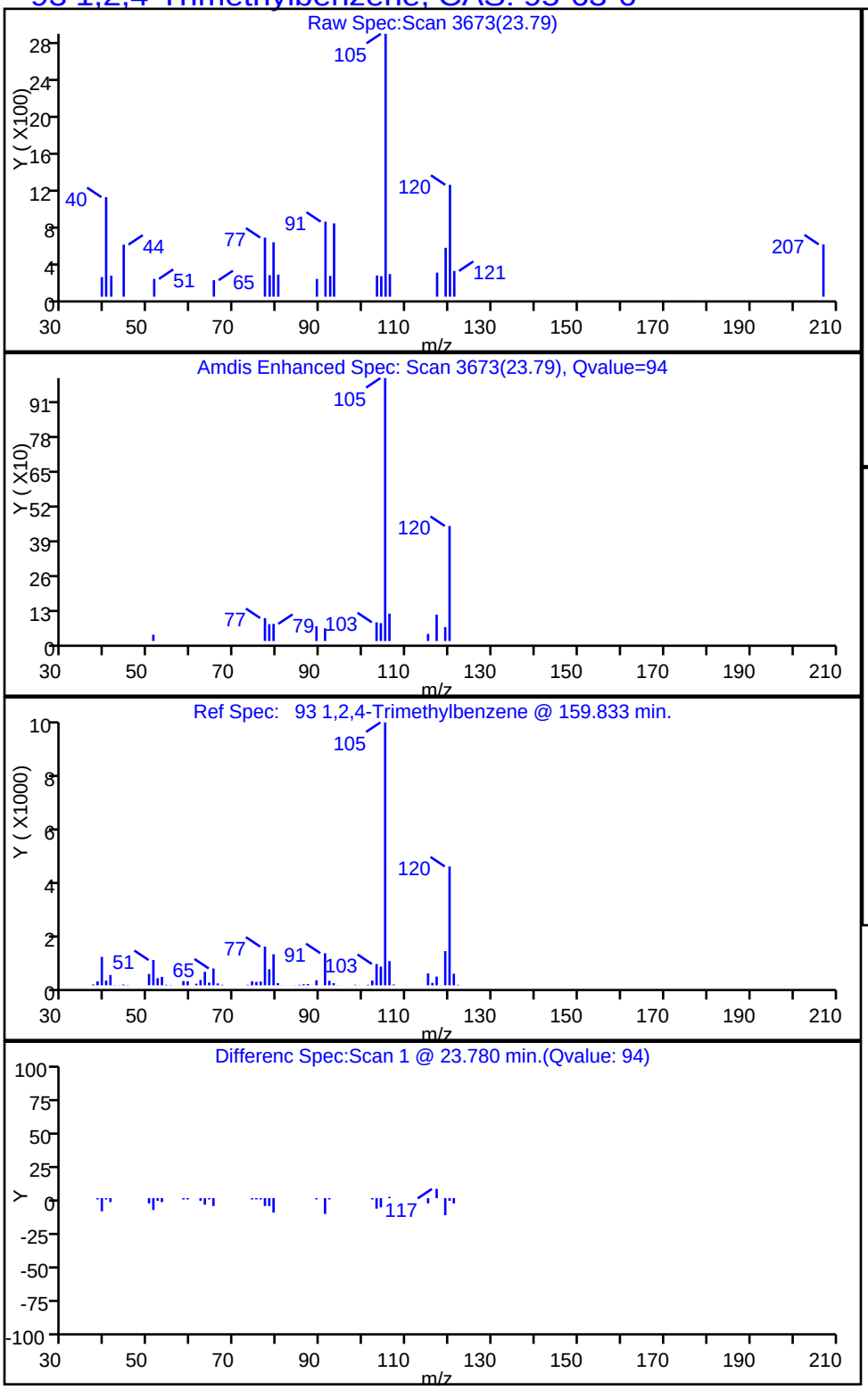


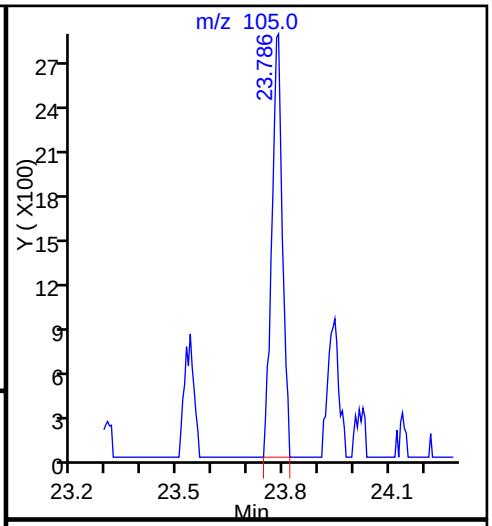
Report Date: 30-Sep-2015 14:16:12 Chrom Revision: 2.2 23-Jul-2015 08:26:08

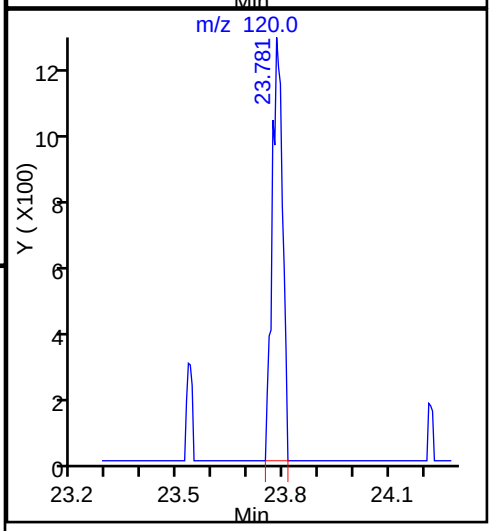
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6







Manual Integration/User Assign Peak Report

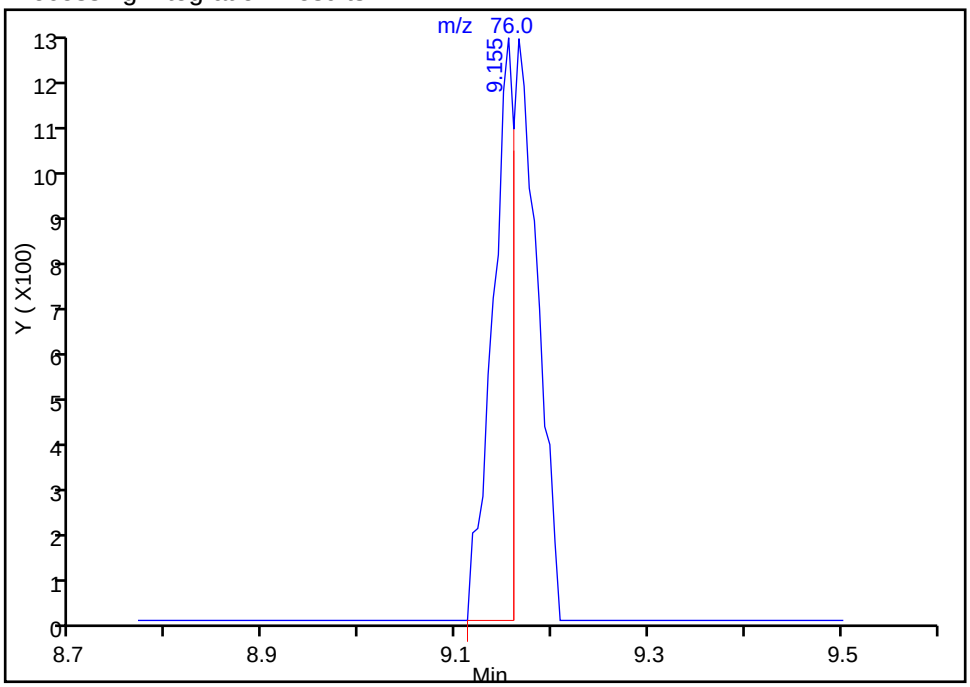
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0

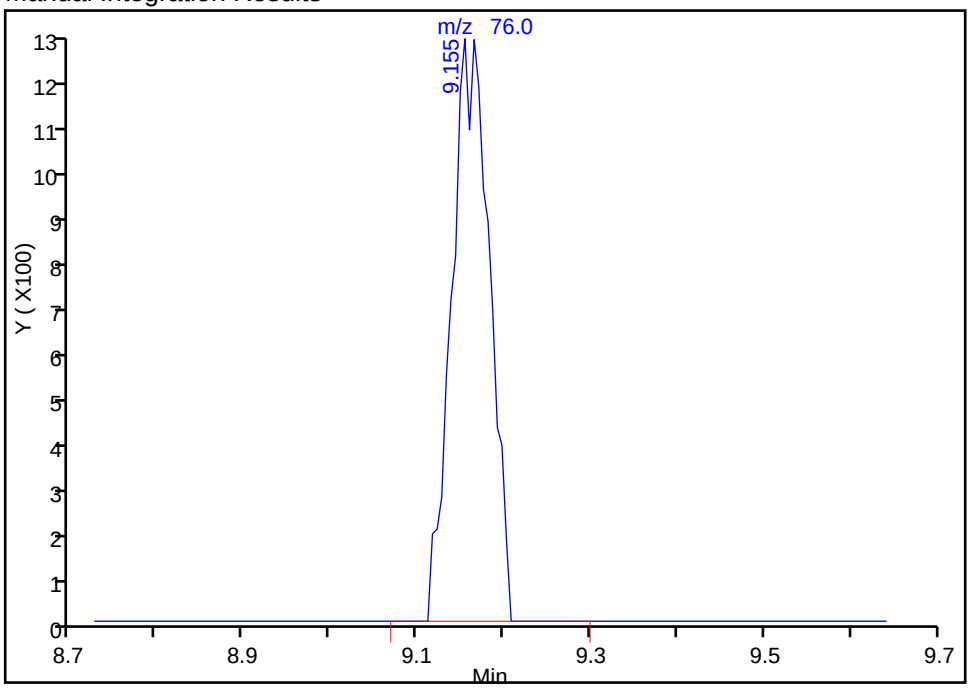
Processing Integration Results

RT: 9.15
Area: 2011
Amount: 0.052575
Amount Units: ppb v/v



Manual Integration Results

RT: 9.15
Area: 3930
Amount: 0.102746
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:13:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

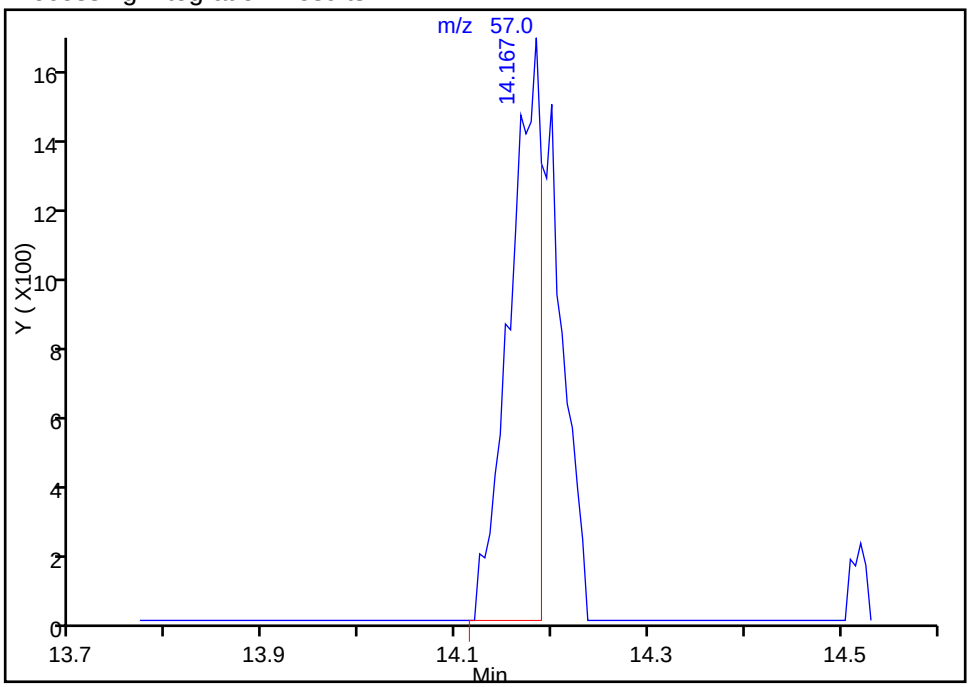
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1

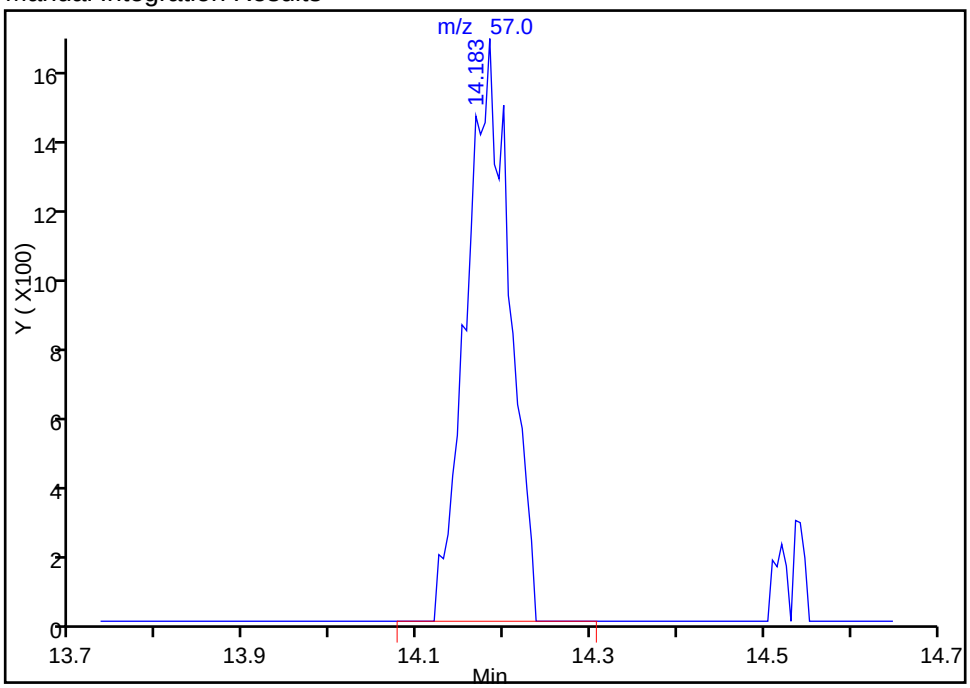
Processing Integration Results

RT: 14.17
Area: 3580
Amount: 0.063946
Amount Units: ppb v/v



Manual Integration Results

RT: 14.18
Area: 5517
Amount: 0.098544
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:13:17
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

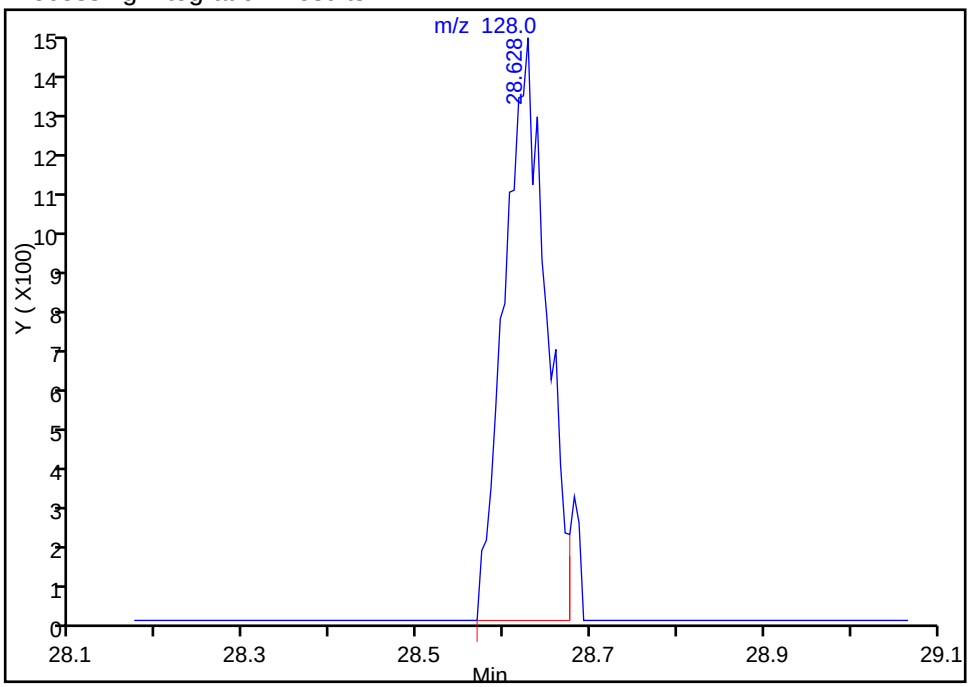
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_028.d				
Injection Date:	30-Sep-2015 09:39:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-14	Lab Sample ID:	200-29972-14		
Client ID:	FR-IA07-092315				
Operator ID:	pad	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

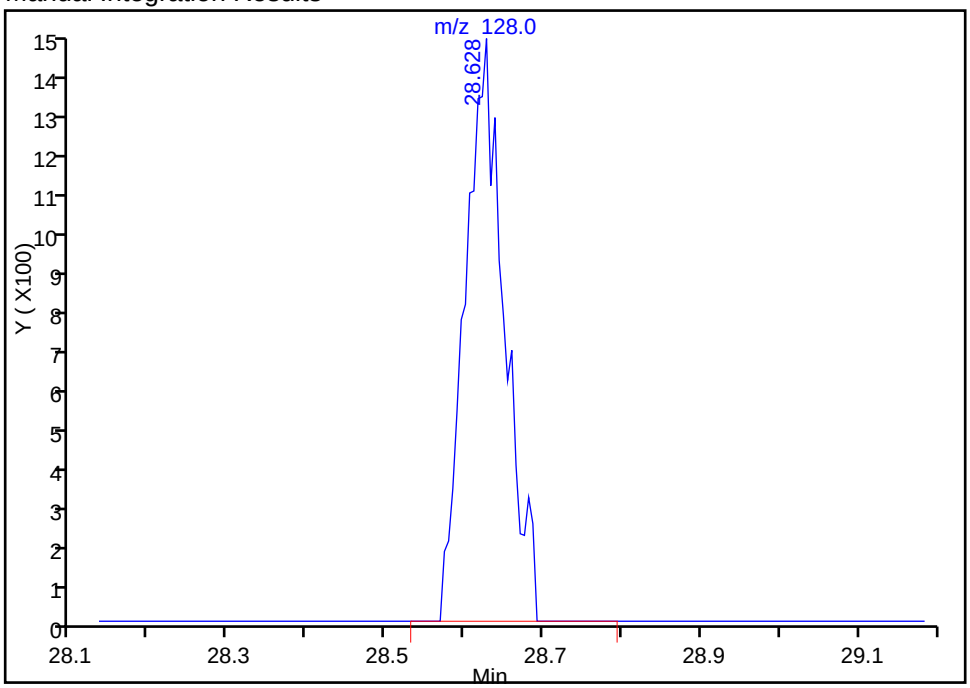
Processing Integration Results

RT: 28.63
Area: 4814
Amount: 0.038790
Amount Units: ppb v/v



Manual Integration Results

RT: 28.63
Area: 4990
Amount: 0.040209
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 13:13:17
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 | Lab Sample ID: 200-29972-15

Matrix: Air | Lab File ID: 16024_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 20:57

Soil Aliquot Vol: | Dilution Factor: 39.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	20	U	20	3.2
75-45-6	Freon 22	86.47	20	U	20	2.3
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	7.9	U	7.9	1.5
74-87-3	Chloromethane	50.49	20	U	20	3.7
106-97-8	n-Butane	58.12	20		20	3.1
75-01-4	Vinyl chloride	62.50	1.6	U	1.6	1.3
106-99-0	1,3-Butadiene	54.09	7.9	U	7.9	3.5
74-83-9	Bromomethane	94.94	7.9	U	7.9	2.2
75-00-3	Chloroethane	64.52	280		20	3.4
593-60-2	Bromoethene(Vinyl Bromide)	106.96	7.9	U	7.9	1.7
75-69-4	Trichlorofluoromethane	137.37	63		7.9	1.5
76-13-1	Freon TF	187.38	7.9	U	7.9	3.0
75-35-4	*1,1-Dichloroethene*	*96.94*	*3600*	*E*	*7.9*	*1.4*
67-64-1	Acetone	58.08	200	U	200	34
67-63-0	Isopropyl alcohol	60.10	200	U	200	39
75-15-0	Carbon disulfide	76.14	20	U	20	1.7
107-05-1	3-Chloropropene	76.53	20	U	20	2.7
75-09-2	Methylene Chloride	84.93	20	U	20	7.1
75-65-0	tert-Butyl alcohol	74.12	200	U	200	34
1634-04-4	Methyl tert-butyl ether	88.15	7.9	U	7.9	3.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	1.7
110-54-3	n-Hexane	86.17	7.9	U	7.9	2.1
75-34-3	*1,1-Dichloroethane*	*98.96*	*1700*	*E*	*7.9*	*0.99*
78-93-3	Methyl Ethyl Ketone	72.11	20	U	20	2.1
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.4
540-59-0	1,2-Dichloroethene, Total	96.94	16	U	16	1.4
67-66-3	Chloroform	119.38	7.9	U	7.9	3.2
109-99-9	Tetrahydrofuran	72.11	200	U	200	55
71-55-6	*1,1,1-Trichloroethane*	*133.41*	*2900*	*E*	*7.9*	*1.8*
110-82-7	Cyclohexane	84.16	7.9	U	7.9	1.5
56-23-5	Carbon tetrachloride	153.81	1.6	U	1.6	1.3
540-84-1	2,2,4-Trimethylpentane	114.23	7.9	U	7.9	1.5
71-43-2	Benzene	78.11	7.9	U	7.9	1.7
107-06-2	1,2-Dichloroethane	98.96	7.9	U	7.9	1.6

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 | Lab Sample ID: 200-29972-15

Matrix: Air | Lab File ID: 16024_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 20:57

Soil Aliquot Vol: | Dilution Factor: 39.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	7.9	U	7.9	1.6
79-01-6	Trichloroethene	131.39	13		1.6	1.5
80-62-6	Methyl methacrylate	100.12	20	U	20	1.6
78-87-5	1,2-Dichloropropane	112.99	7.9	U	7.9	1.1
123-91-1	1,4-Dioxane	88.11	200	U	200	22
75-27-4	Bromodichloromethane	163.83	7.9	U	7.9	1.2
10061-01-5	cis-1,3-Dichloropropene	110.97	7.9	U	7.9	0.91
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.0
108-88-3	Toluene	92.14	7.9	U	7.9	3.7
10061-02-6	trans-1,3-Dichloropropene	110.97	7.9	U	7.9	1.3
79-00-5	1,1,2-Trichloroethane	133.41	7.9	U	7.9	1.5
127-18-4	Tetrachloroethene	165.83	6.2	J	7.9	0.91
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	2.3
124-48-1	Dibromochloromethane	208.29	7.9	U	7.9	1.7
106-93-4	1,2-Dibromoethane	187.87	7.9	U	7.9	1.5
108-90-7	Chlorobenzene	112.56	7.9	U	7.9	1.9
100-41-4	Ethylbenzene	106.17	7.9	U	7.9	1.3
179601-23-1	m,p-Xylene	106.17	20	U	20	2.8
95-47-6	Xylene, o-	106.17	7.9	U	7.9	1.5
1330-20-7	Xylene (total)	106.17	28	U	28	1.5
100-42-5	Styrene	104.15	7.9	U	7.9	1.7
75-25-2	Bromoform	252.75	7.9	U	7.9	2.2
98-82-8	Cumene	120.19	7.9	U	7.9	1.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	7.9	U	7.9	1.7
103-65-1	n-Propylbenzene	120.19	7.9	U	7.9	1.7
622-96-8	4-Ethyltoluene	120.20	7.9	U	7.9	1.7
108-67-8	1,3,5-Trimethylbenzene	120.20	7.9	U	7.9	1.5
95-49-8	2-Chlorotoluene	126.59	7.9	U	7.9	1.3
98-06-6	tert-Butylbenzene	134.22	7.9	U	7.9	1.7
95-63-6	1,2,4-Trimethylbenzene	120.20	7.9	U	7.9	1.7
135-98-8	sec-Butylbenzene	134.22	7.9	U	7.9	1.7
99-87-6	4-Isopropyltoluene	134.22	7.9	U	7.9	1.5
541-73-1	1,3-Dichlorobenzene	147.00	7.9	U	7.9	2.2
106-46-7	1,4-Dichlorobenzene	147.00	7.9	U	7.9	2.3

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 Lab Sample ID: 200-29972-15

Matrix: Air Lab File ID: 16024_013.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 20:57

Soil Aliquot Vol: Dilution Factor: 39.5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	7.9	U	7.9	2.1
104-51-8	n-Butylbenzene	134.22	7.9	U	7.9	1.9
95-50-1	1,2-Dichlorobenzene	147.00	7.9	U	7.9	2.2
120-82-1	1,2,4-Trichlorobenzene	181.45	20	U	20	2.7
87-68-3	Hexachlorobutadiene	260.76	7.9	U	7.9	3.2
91-20-3	Naphthalene	128.17	20	U	20	2.3

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 | Lab Sample ID: 200-29972-15

Matrix: Air | Lab File ID: 16024_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 20:57

Soil Aliquot Vol: | Dilution Factor: 39.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	98	U	98	16
75-45-6	Freon 22	86.47	70	U	70	8.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	55	U	55	10
74-87-3	Chloromethane	50.49	41	U	41	7.6
106-97-8	n-Butane	58.12	48		47	7.3
75-01-4	Vinyl chloride	62.50	4.0	U	4.0	3.2
106-99-0	1,3-Butadiene	54.09	17	U	17	7.8
74-83-9	Bromomethane	94.94	31	U	31	8.6
75-00-3	Chloroethane	64.52	730		52	8.9
593-60-2	Bromoethene(Vinyl Bromide)	106.96	35	U	35	7.6
75-69-4	Trichlorofluoromethane	137.37	350		44	8.4
76-13-1	Freon TF	187.38	61	U	61	23
75-35-4	*1,1-Dichloroethene*	*96.94*	*14000*	*E*	*31*	*5.6*
67-64-1	Acetone	58.08	470	U	470	81
67-63-0	Isopropyl alcohol	60.10	490	U	490	95
75-15-0	Carbon disulfide	76.14	62	U	62	5.3
107-05-1	3-Chloropropene	76.53	62	U	62	8.4
75-09-2	Methylene Chloride	84.93	69	U	69	25
75-65-0	tert-Butyl alcohol	74.12	600	U	600	100
1634-04-4	Methyl tert-butyl ether	88.15	28	U	28	13
156-60-5	trans-1,2-Dichloroethene	96.94	31	U	31	6.7
110-54-3	n-Hexane	86.17	28	U	28	7.5
75-34-3	*1,1-Dichloroethane*	*98.96*	*7000*	*E*	*32*	*4.0*
78-93-3	Methyl Ethyl Ketone	72.11	58	U	58	6.1
156-59-2	cis-1,2-Dichloroethene	96.94	31	U	31	5.5
540-59-0	1,2-Dichloroethene, Total	96.94	63	U	63	5.5
67-66-3	Chloroform	119.38	39	U	39	16
109-99-9	Tetrahydrofuran	72.11	580	U	580	160
71-55-6	*1,1,1-Trichloroethane*	*133.41*	*16000*	*E*	*43*	*9.9*
110-82-7	Cyclohexane	84.16	27	U	27	5.3
56-23-5	Carbon tetrachloride	153.81	9.9	U	9.9	8.0
540-84-1	2,2,4-Trimethylpentane	114.23	37	U	37	7.2
71-43-2	Benzene	78.11	25	U	25	5.3
107-06-2	1,2-Dichloroethane	98.96	32	U	32	6.6

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 | Lab Sample ID: 200-29972-15

Matrix: Air | Lab File ID: 16024_013.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 20:57

Soil Aliquot Vol: | Dilution Factor: 39.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	32	U	32	6.5
79-01-6	Trichloroethene	131.39	68		8.5	8.3
80-62-6	Methyl methacrylate	100.12	81	U	81	6.5
78-87-5	1,2-Dichloropropane	112.99	37	U	37	4.9
123-91-1	1,4-Dioxane	88.11	710	U	710	80
75-27-4	Bromodichloromethane	163.83	53	U	53	7.9
10061-01-5	cis-1,3-Dichloropropene	110.97	36	U	36	4.1
108-10-1	methyl isobutyl ketone	100.16	81	U	81	8.1
108-88-3	Toluene	92.14	30	U	30	14
10061-02-6	trans-1,3-Dichloropropene	110.97	36	U	36	6.1
79-00-5	1,1,2-Trichloroethane	133.41	43	U	43	8.4
127-18-4	Tetrachloroethene	165.83	42	J	54	6.2
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	81	U	81	9.2
124-48-1	Dibromochloromethane	208.29	67	U	67	15
106-93-4	1,2-Dibromoethane	187.87	61	U	61	12
108-90-7	Chlorobenzene	112.56	36	U	36	8.9
100-41-4	Ethylbenzene	106.17	34	U	34	5.7
179601-23-1	m,p-Xylene	106.17	86	U	86	12
95-47-6	Xylene, o-	106.17	34	U	34	6.3
1330-20-7	Xylene (total)	106.17	120	U	120	6.3
100-42-5	Styrene	104.15	34	U	34	7.2
75-25-2	Bromoform	252.75	82	U	82	23
98-82-8	Cumene	120.19	39	U	39	5.8
79-34-5	1,1,2,2-Tetrachloroethane	167.85	54	U	54	12
103-65-1	n-Propylbenzene	120.19	39	U	39	8.3
622-96-8	4-Ethyltoluene	120.20	39	U	39	8.5
108-67-8	1,3,5-Trimethylbenzene	120.20	39	U	39	7.6
95-49-8	2-Chlorotoluene	126.59	41	U	41	6.7
98-06-6	tert-Butylbenzene	134.22	43	U	43	9.5
95-63-6	1,2,4-Trimethylbenzene	120.20	39	U	39	8.4
135-98-8	sec-Butylbenzene	134.22	43	U	43	9.5
99-87-6	4-Isopropyltoluene	134.22	43	U	43	8.0
541-73-1	1,3-Dichlorobenzene	147.00	47	U	47	13
106-46-7	1,4-Dichlorobenzene	147.00	47	U	47	14

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 Lab Sample ID: 200-29972-15

Matrix: Air Lab File ID: 16024_013.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 20:57

Soil Aliquot Vol: Dilution Factor: 39.5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	41	U	41	11
104-51-8	n-Butylbenzene	134.22	43	U	43	10
95-50-1	1,2-Dichlorobenzene	147.00	47	U	47	13
120-82-1	1,2,4-Trichlorobenzene	181.45	150	U	150	20
87-68-3	Hexachlorobutadiene	260.76	84	U	84	35
91-20-3	Naphthalene	128.17	100	U	100	12

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d
Lims ID: 200-29972-A-15 Lab Sample ID: 200-29972-15
Client ID: FR-SS08-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 20:57:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 200.000 mL Dil. Factor: 39.5000
Sample Info: 200-0016024-013
Misc. Info.: 29972-15
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:28:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.431	-0.011	95	1590	0.0323	
3 Chlorodifluoromethane	51		4.501				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50		5.009				ND	
6 Butane	43	5.287	5.292	-0.005	96	7147	0.5104	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64	6.673	6.678	-0.005	99	52268	6.98	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.299	7.299	0.000	98	88926	1.59	
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.673	8.668	0.005	96	1475350	92.0	E
22 Acetone	43	8.962	8.941	0.021	97	8753	0.5050	
23 Carbon disulfide	76		9.171				ND	
24 Isopropyl alcohol	45	9.241	9.219	0.022	92	2313	0.1673	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.931	9.931	0.000	80	1248	0.0981	
28 2-Methyl-2-propanol	59		10.113				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63	11.429	11.429	0.000	99	1094534	43.9	E
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72		12.654				ND	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	72	154958	10.0	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.510				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	94	3361914	74.4	E

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117		13.782				ND	
	46 Isooctane	57		14.184				ND	
	47 Benzene	78	14.253	14.253	0.000	1	1839	0.0373	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	727524	10.0	
	53 Trichloroethene	95	15.473	15.478	-0.005	94	8064	0.3191	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88	16.201	16.190	0.011	77	1034	0.1198	M
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.624				ND	
	65 Toluene	92		17.955				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.865				ND	
	68 Tetrachloroethene	166	18.993	18.988	0.005	94	7251	0.1566	M
	69 2-Hexanone	43		19.261				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	665174	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91		20.898				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.796				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105		22.347				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.973				ND	
	88 4-Ethyltoluene	105		23.139				ND	
	89 2-Chlorotoluene	91		23.177				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.262				ND	
	96 1,3-Dichlorobenzene	146		24.332				ND	
	97 1,4-Dichlorobenzene	146		24.482				ND	
	98 Benzyl chloride	91		24.707				ND	
	100 n-Butylbenzene	91		24.921				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.130				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128		28.767				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

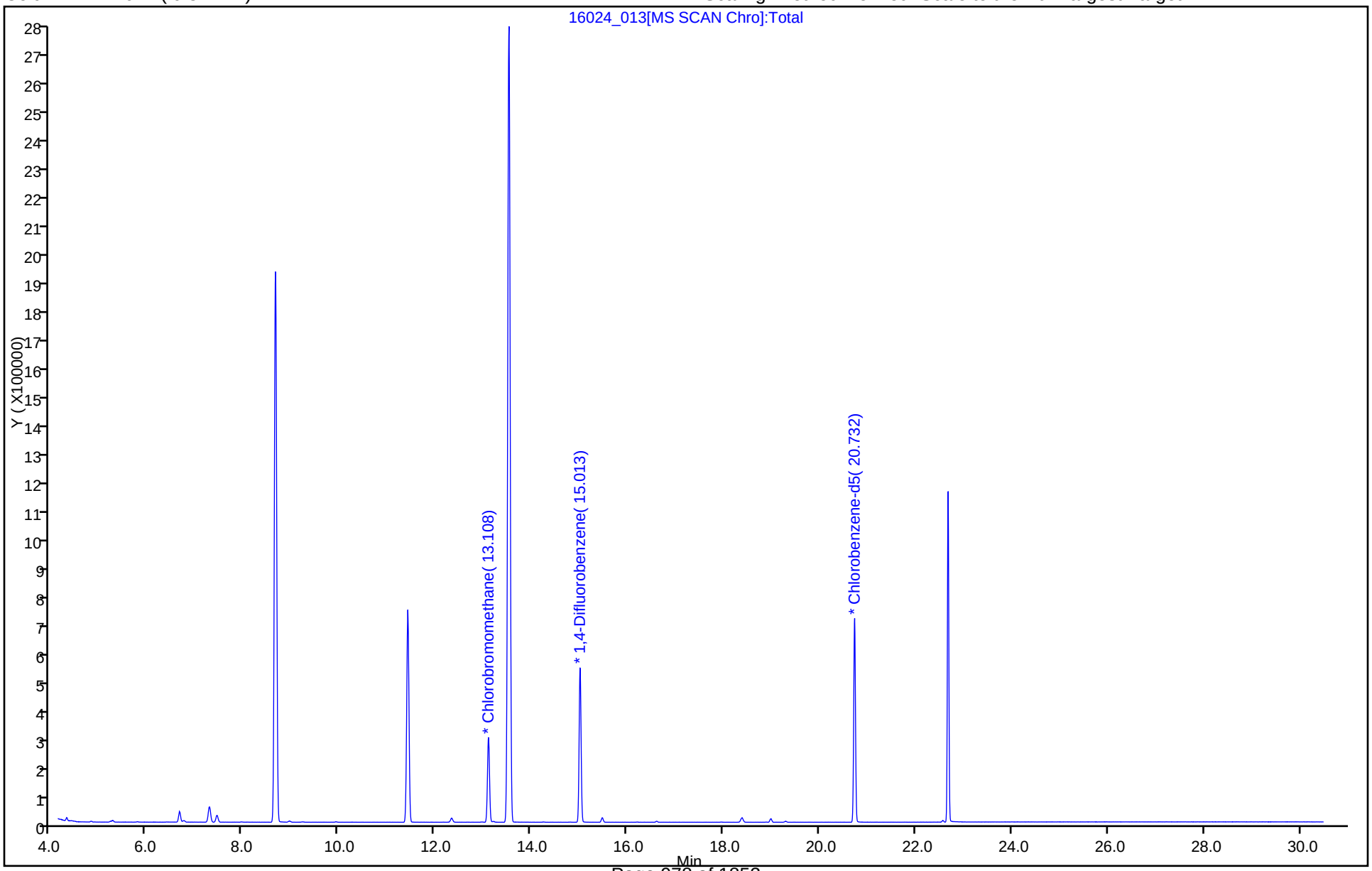
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15	Worklist Smp#:	13
Client ID:	FR-SS08-092315				
Purge Vol:	200.000 mL	Dil. Factor:	39.5000	ALS Bottle#:	12
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



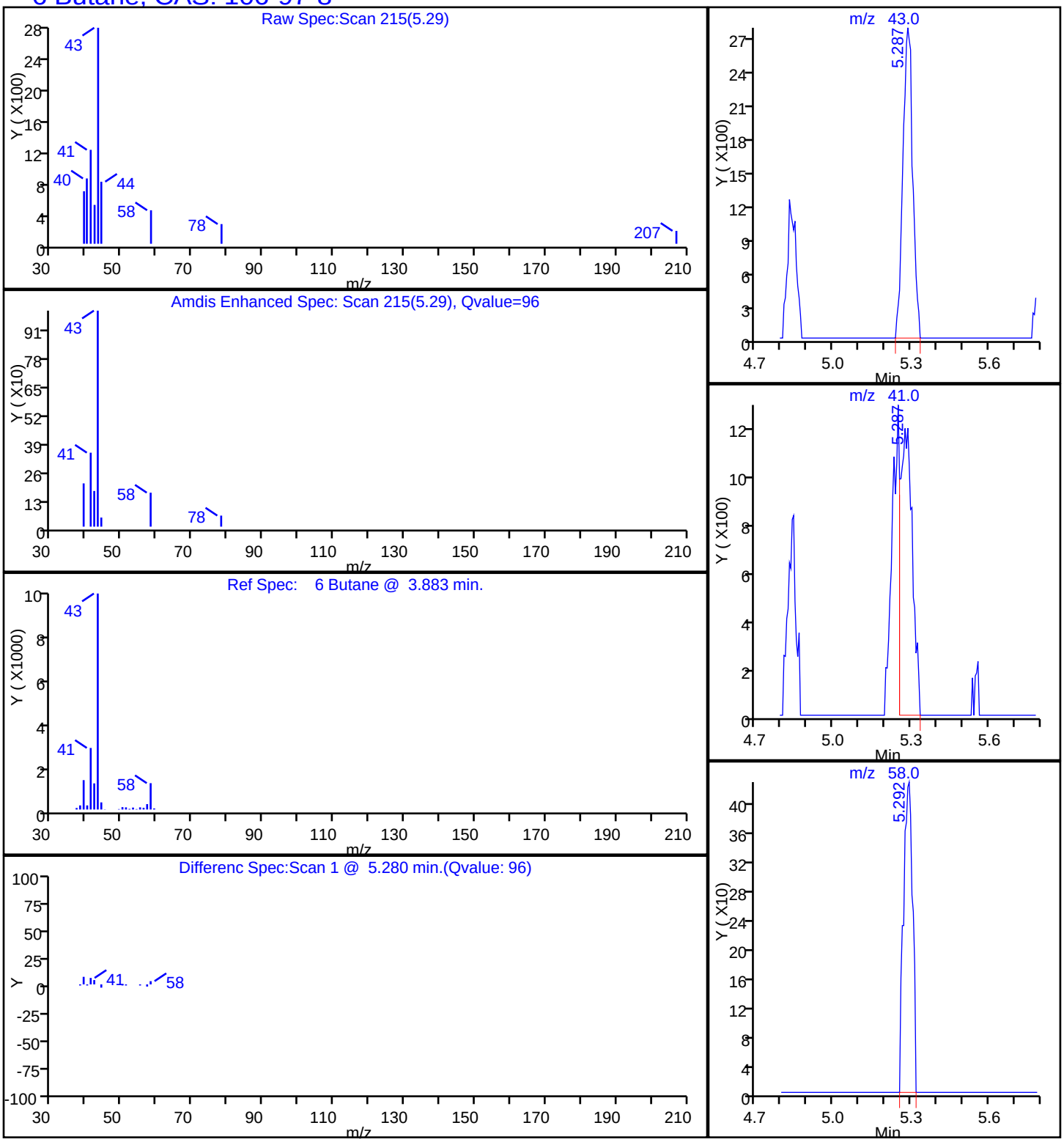
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8



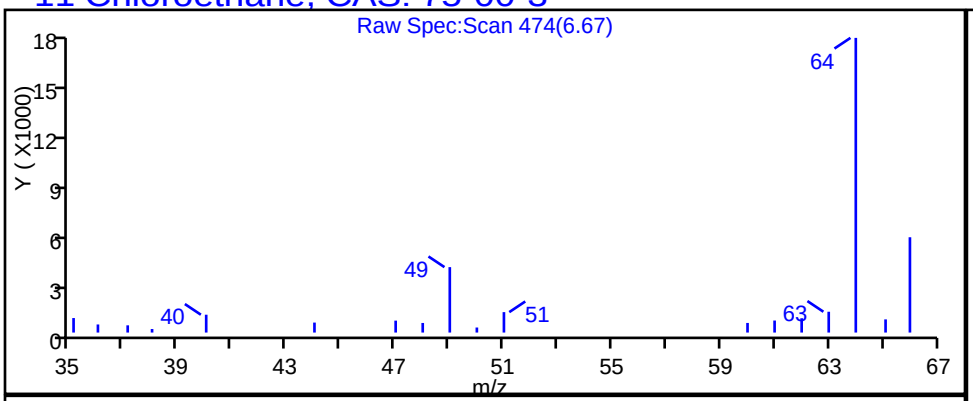
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

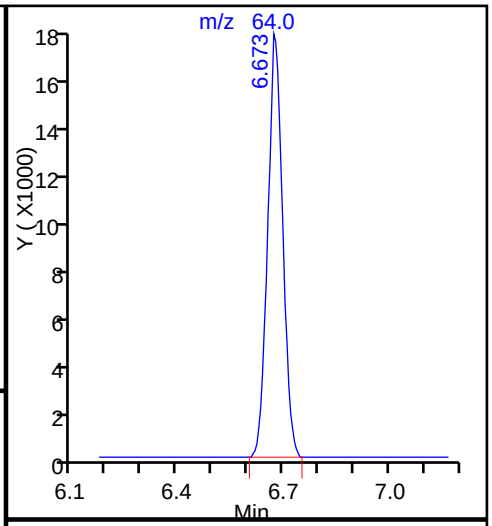
TestAmerica Burlington

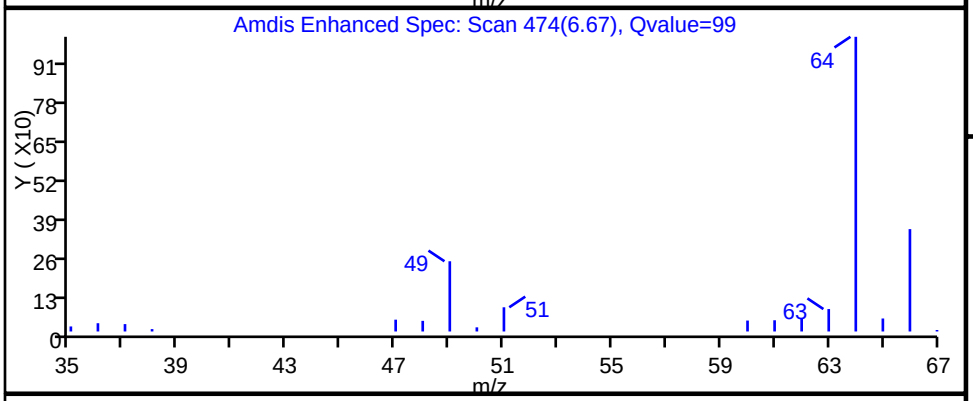
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

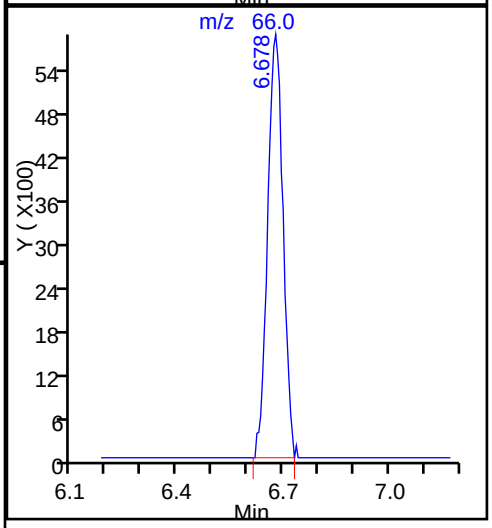
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

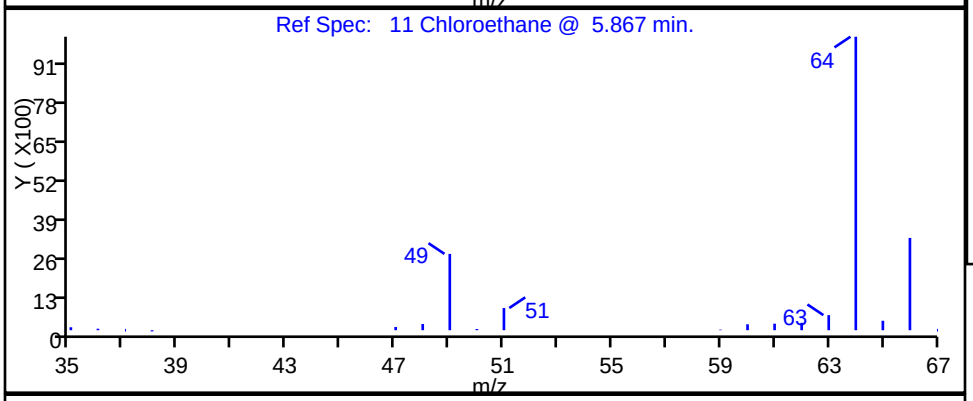
11 Chloroethane, CAS: 75-00-3

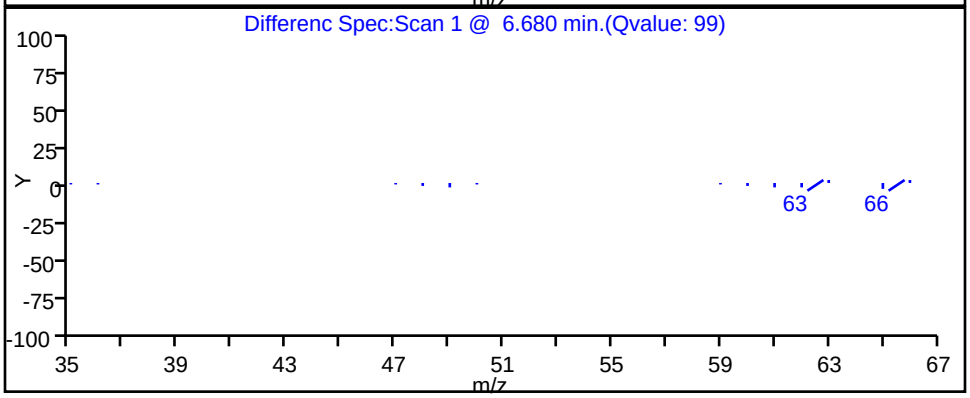










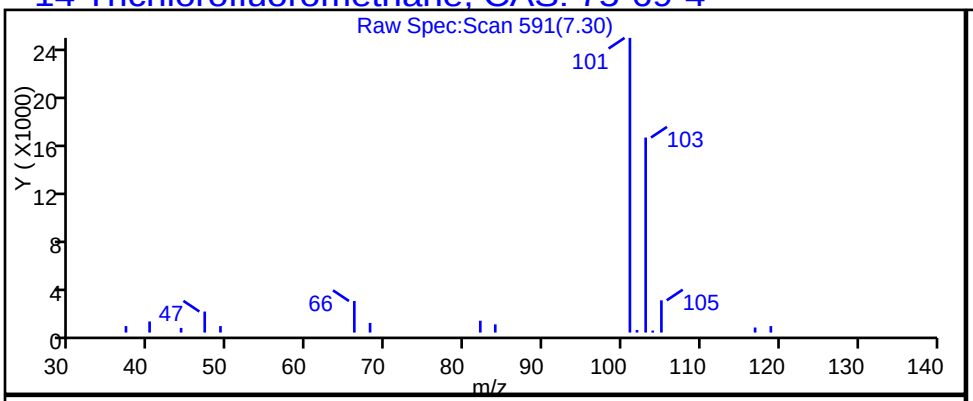


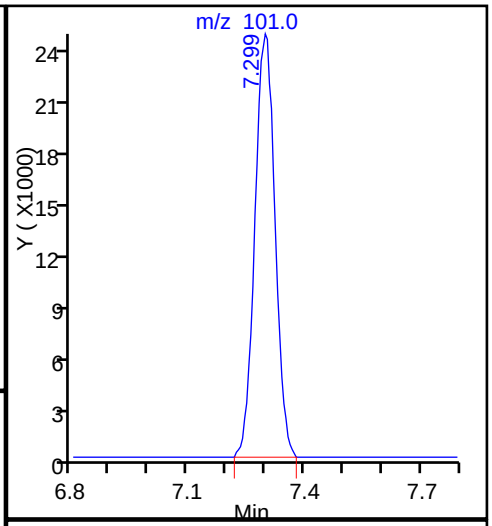
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

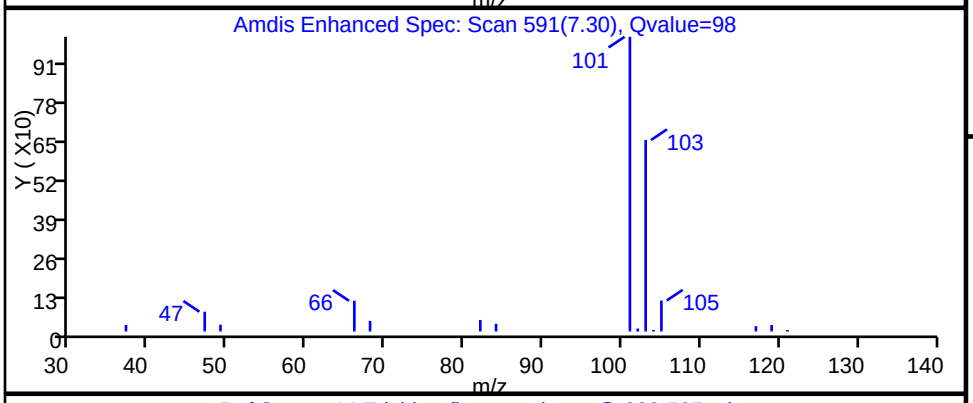
TestAmerica Burlington

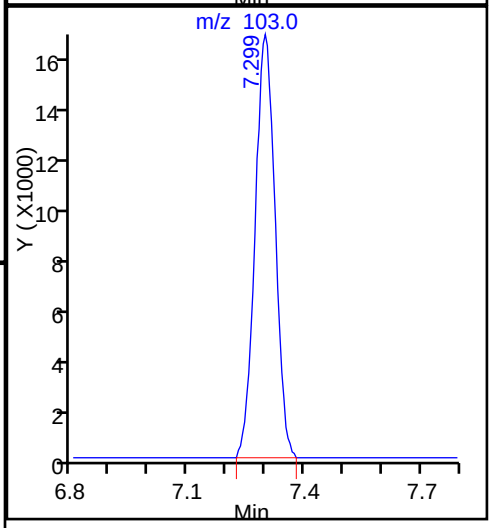
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d				
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

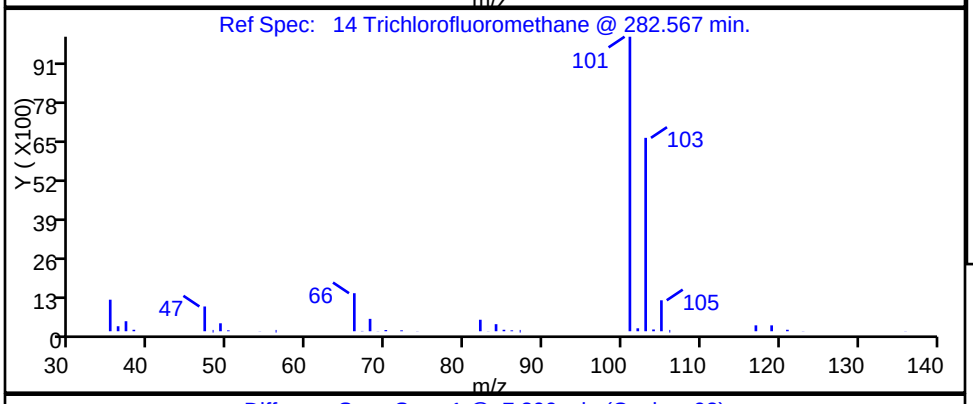
14 Trichlorofluoromethane, CAS: 75-69-4

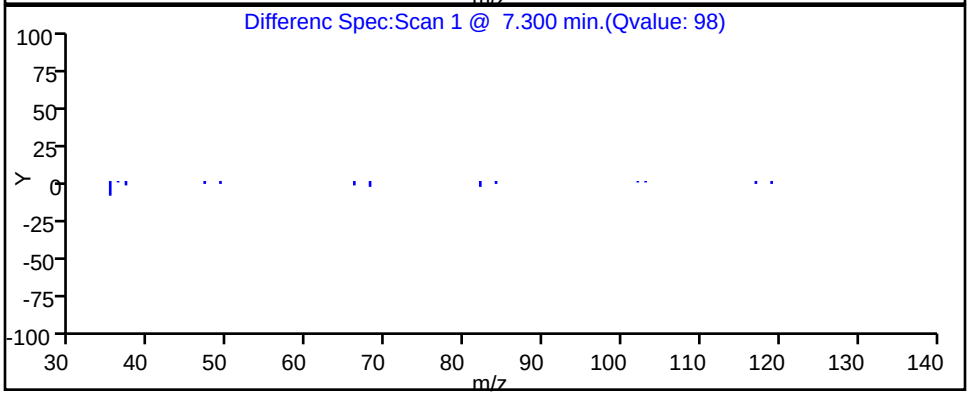












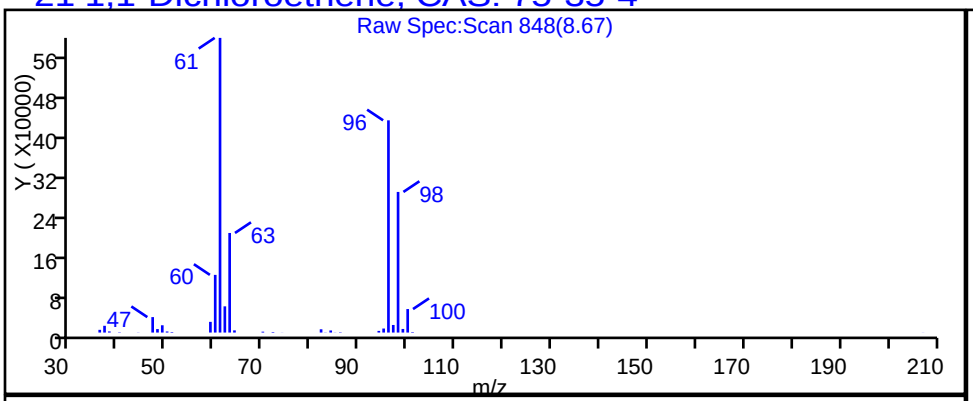
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

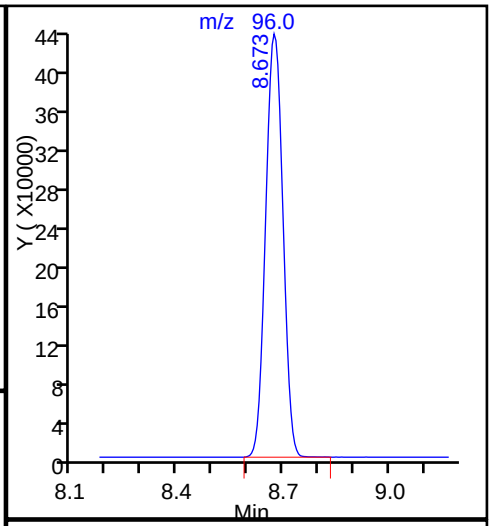
TestAmerica Burlington

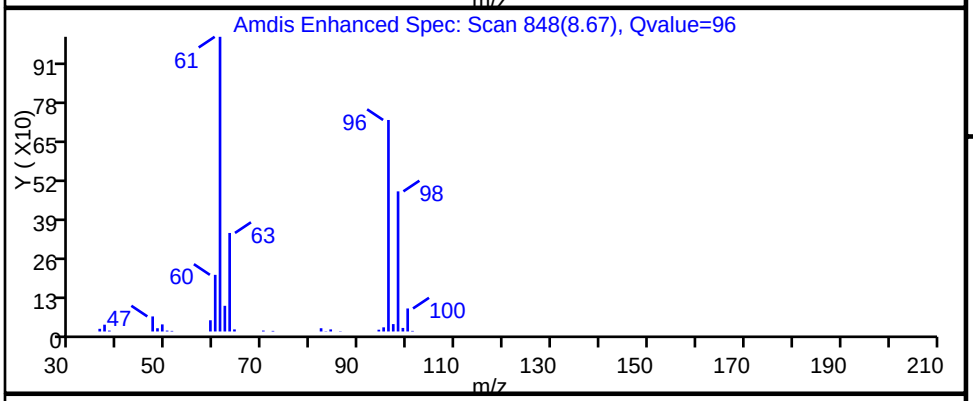
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

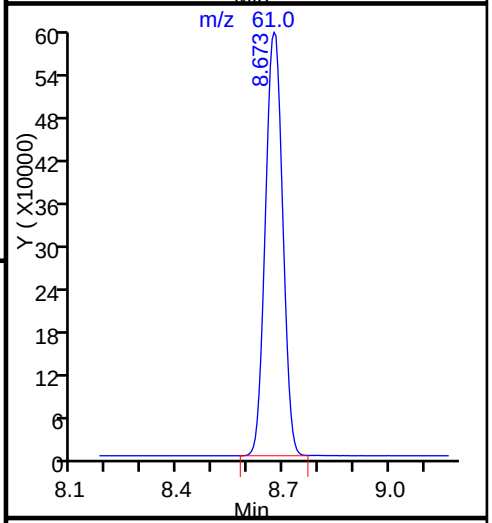
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

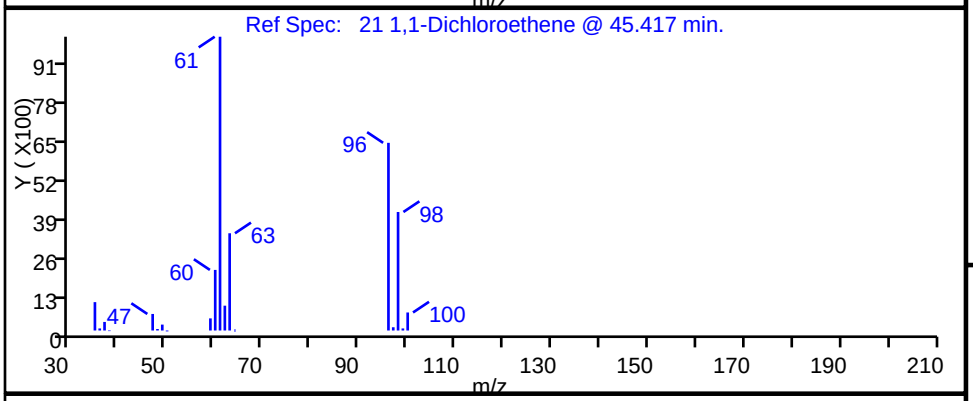
21 1,1-Dichloroethene, CAS: 75-35-4

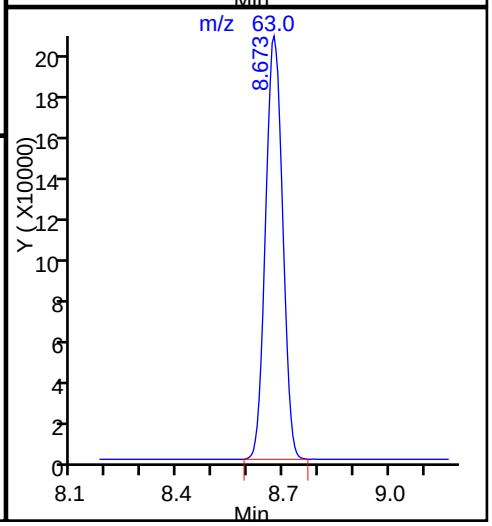


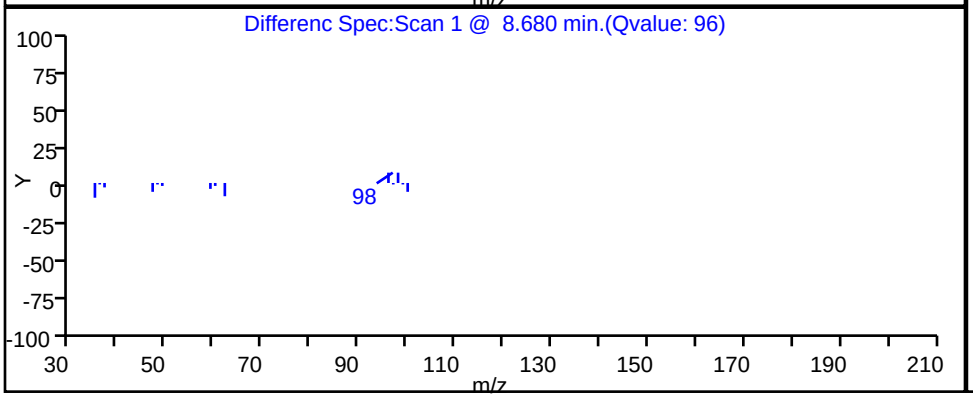












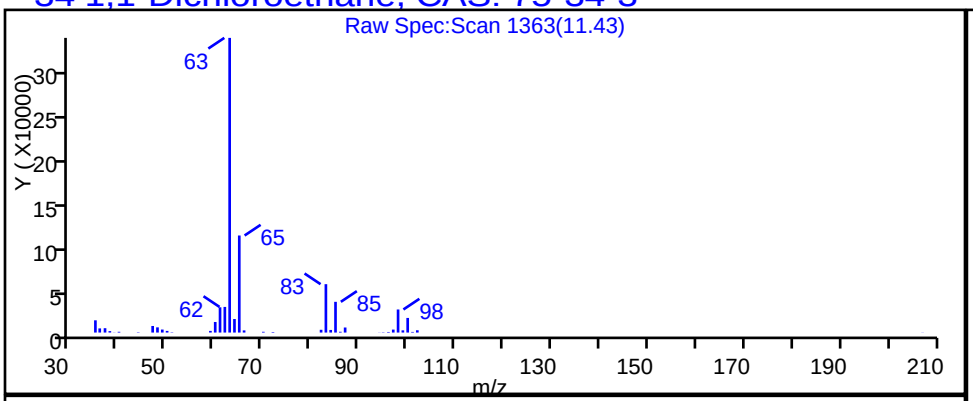
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

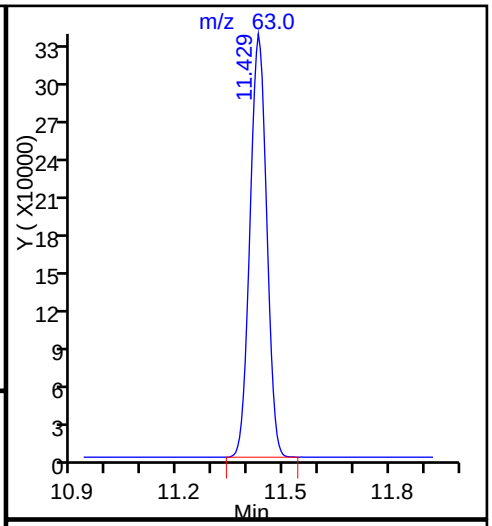
TestAmerica Burlington

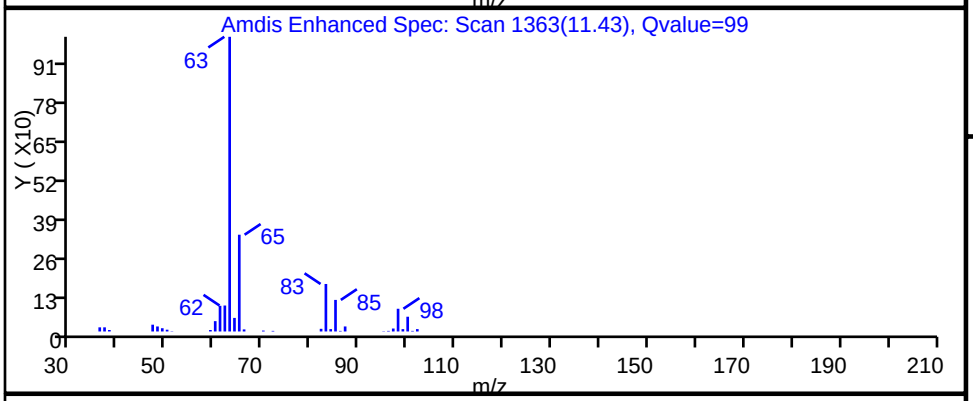
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

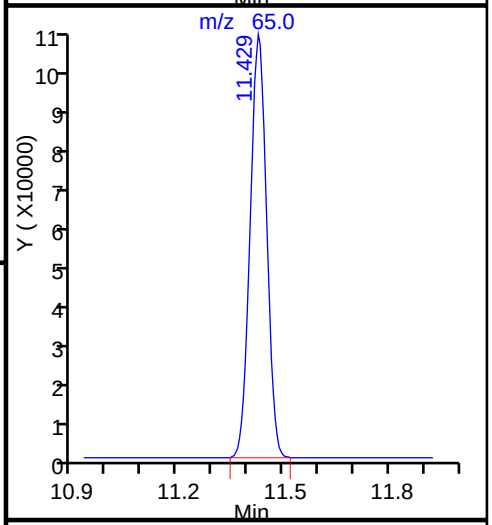
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

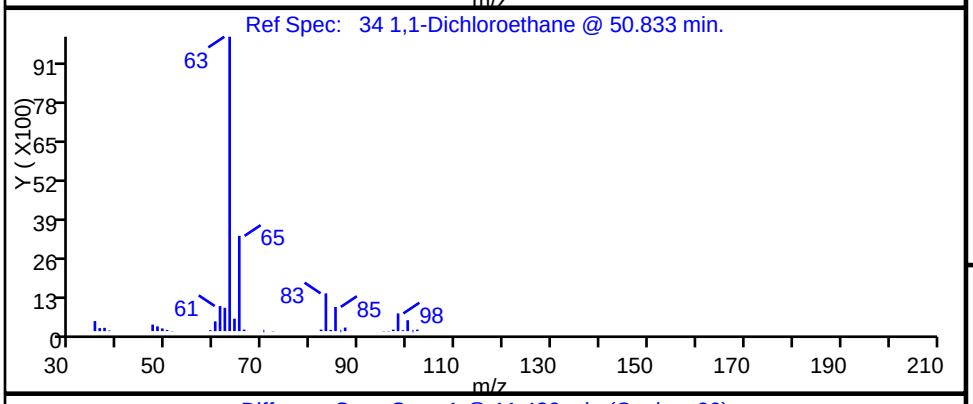
34 1,1-Dichloroethane, CAS: 75-34-3

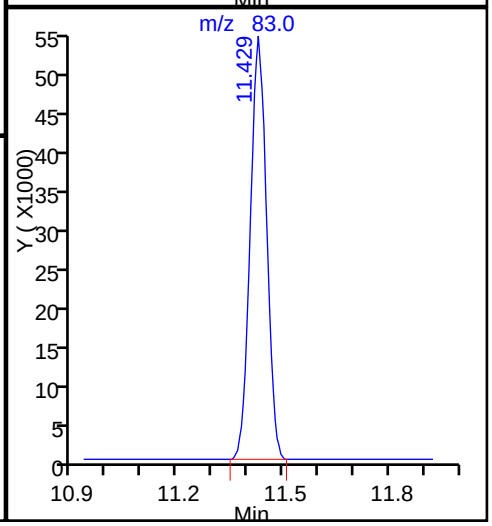


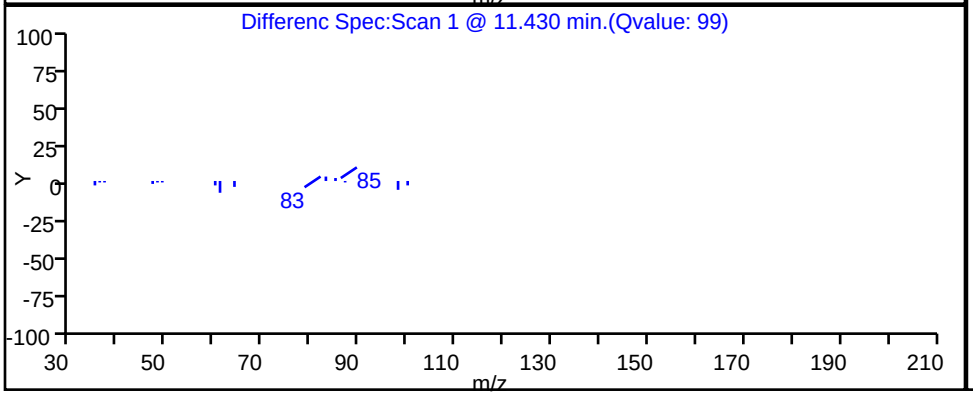










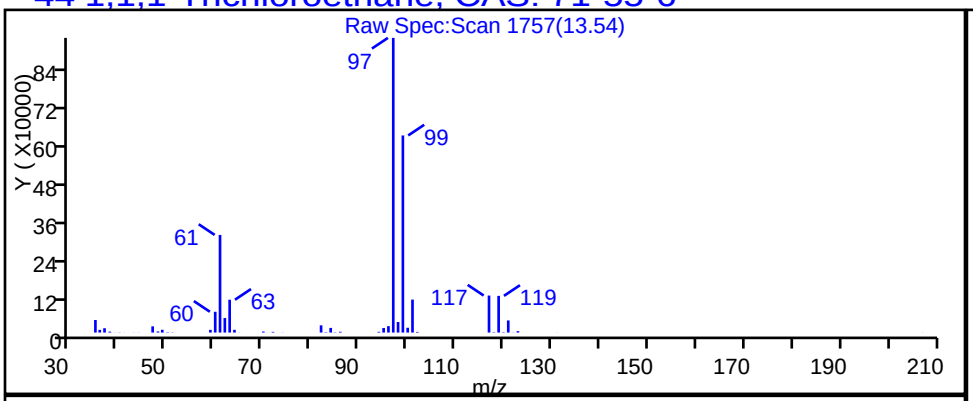


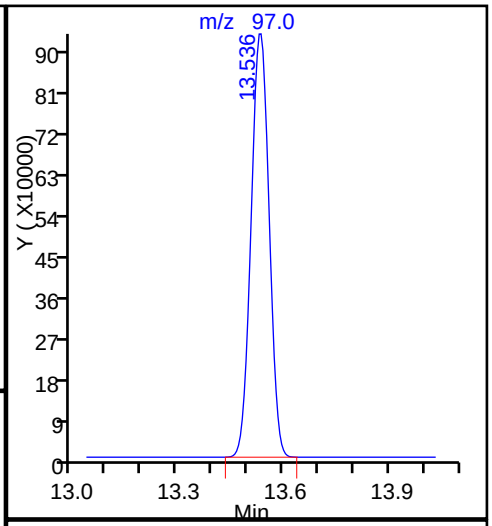
Report Date: 01-Oct-2015 12:53:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

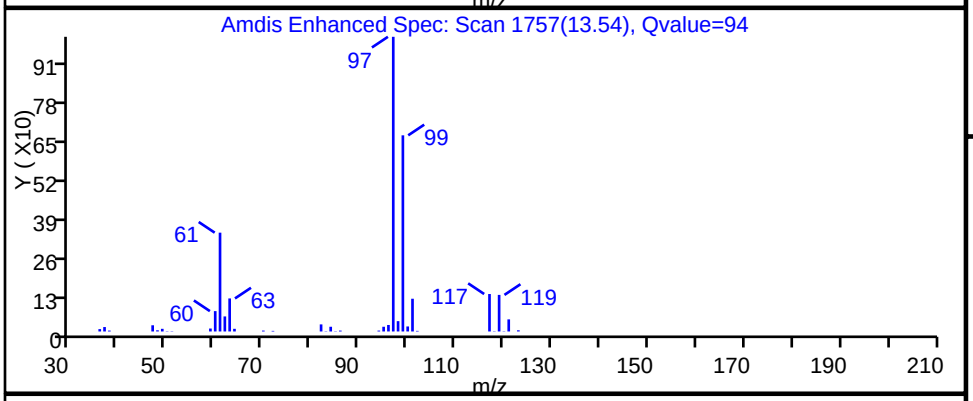
TestAmerica Burlington

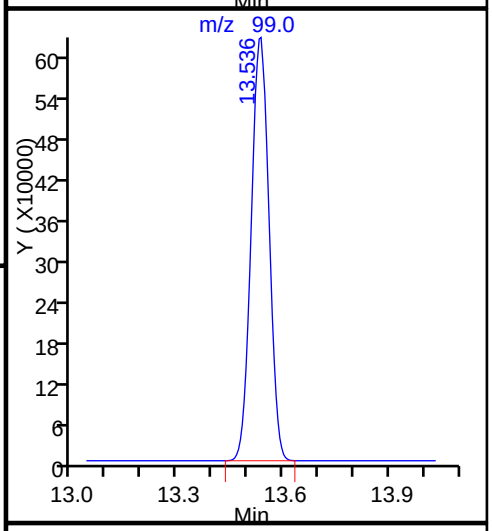
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d				
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

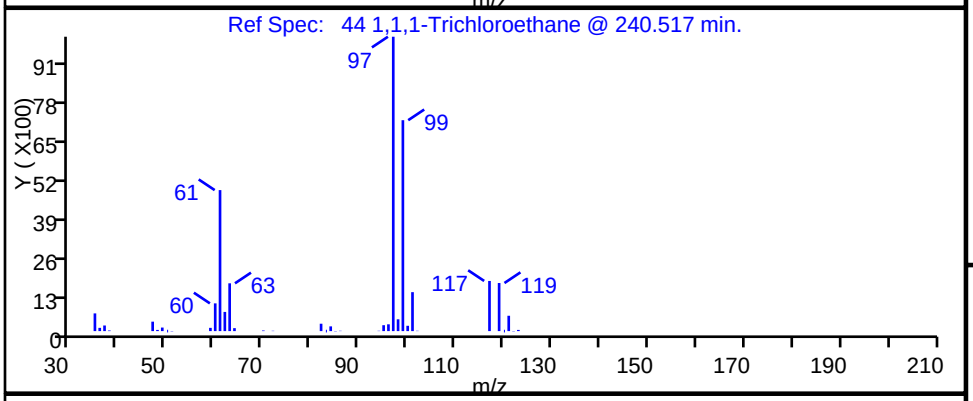
44 1,1,1-Trichloroethane, CAS: 71-55-6

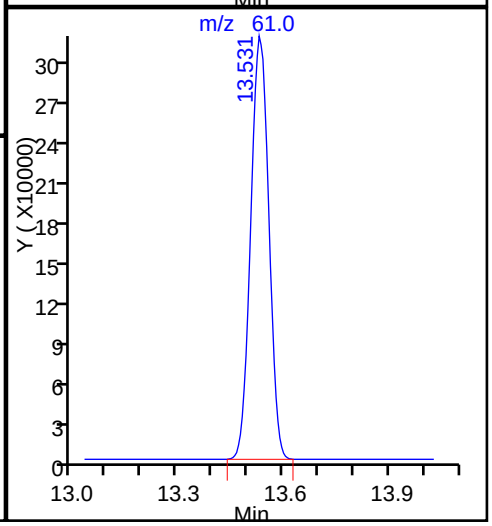


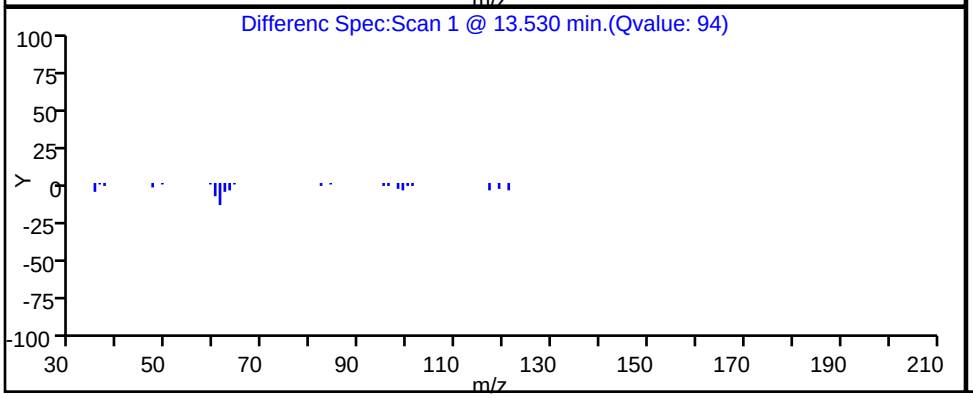












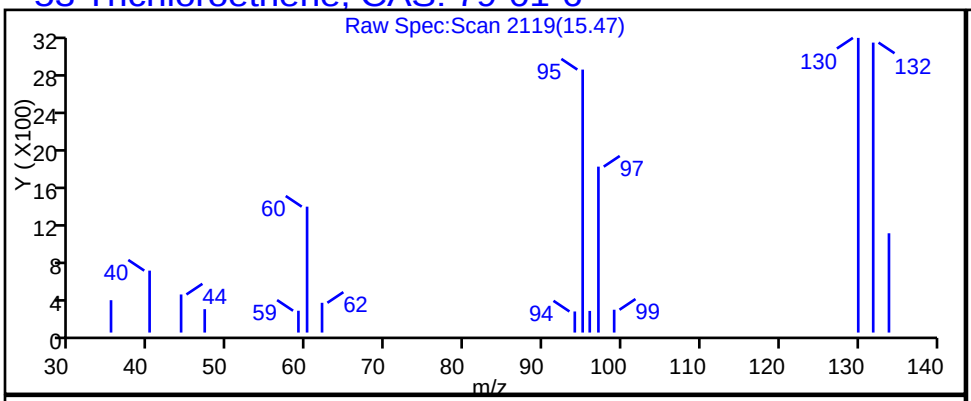
Report Date: 01-Oct-2015 12:53:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

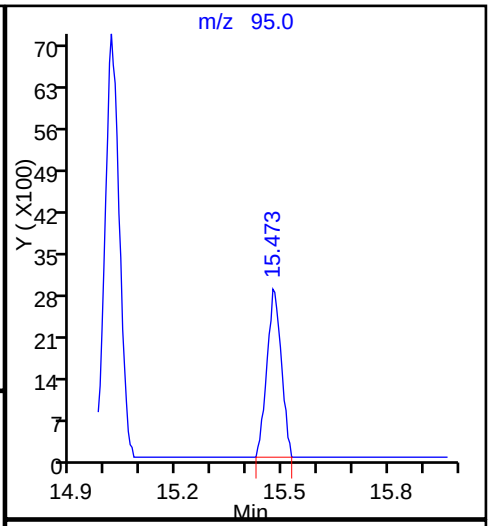
TestAmerica Burlington

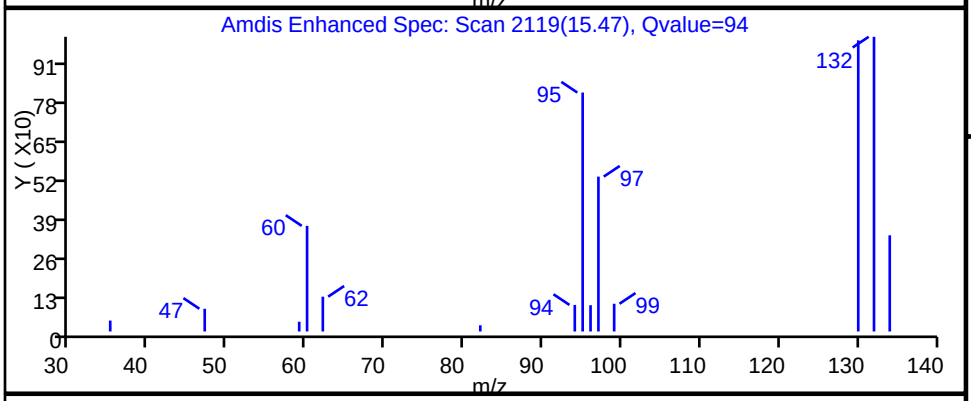
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

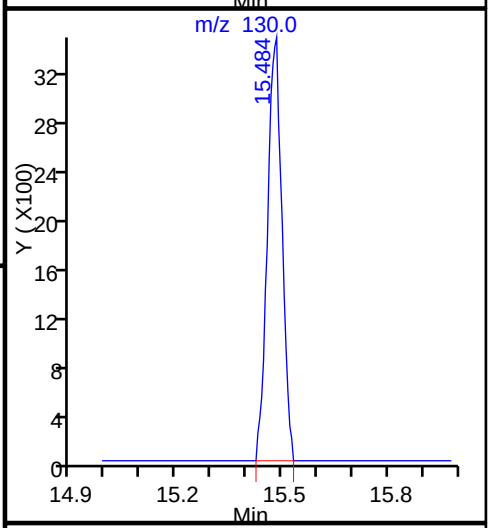
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

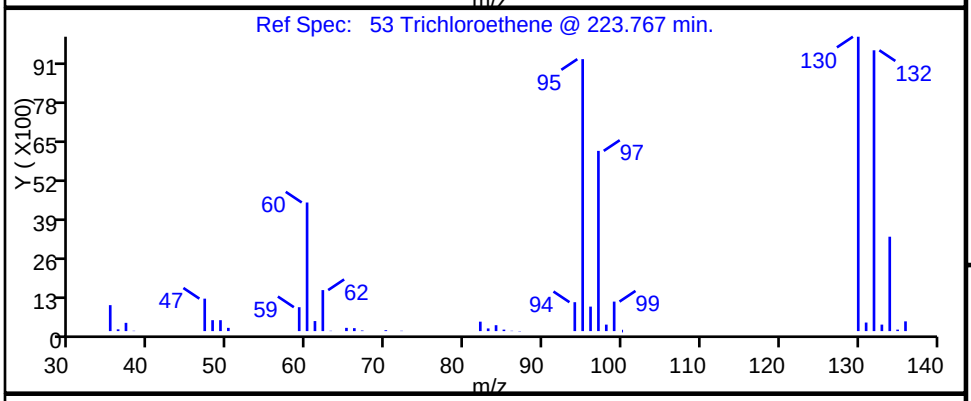
53 Trichloroethene, CAS: 79-01-6

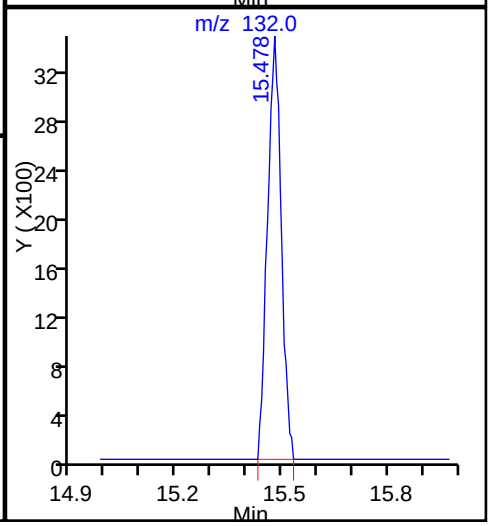


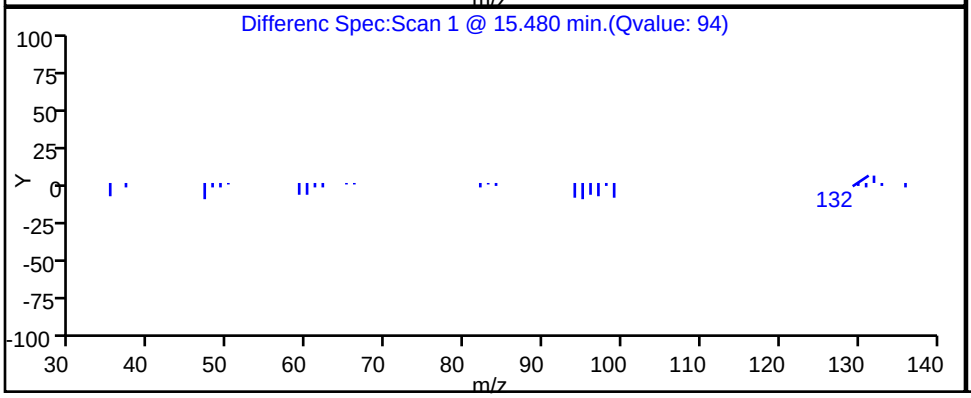












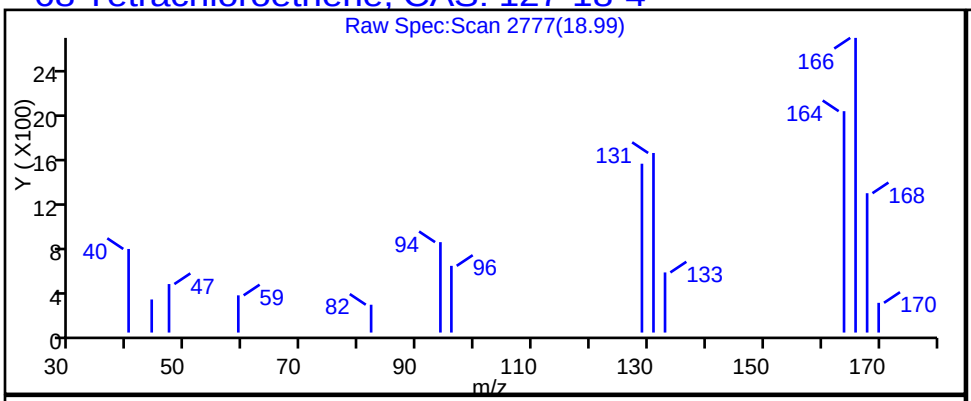
Report Date: 01-Oct-2015 12:53:38 Chrom Revision: 2.2 23-Jul-2015 08:26:08

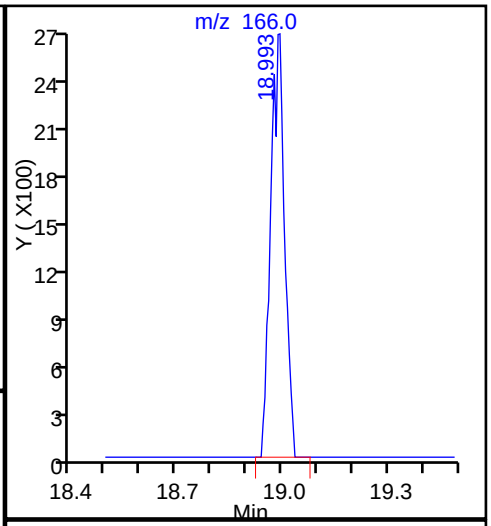
TestAmerica Burlington

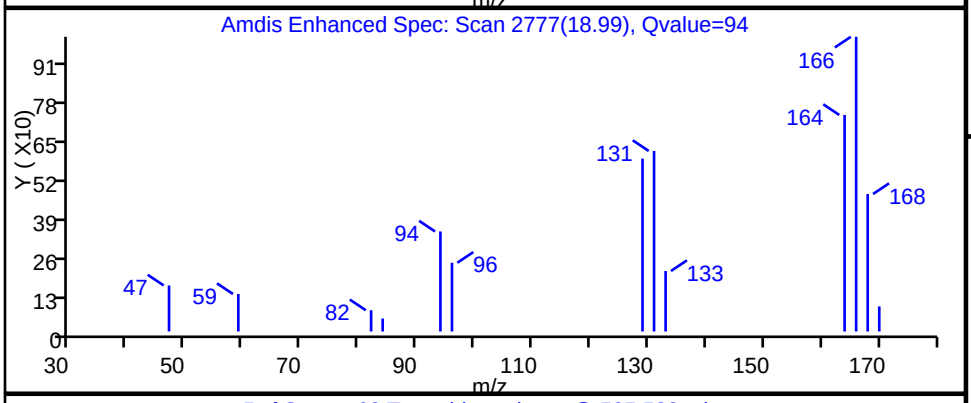
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d

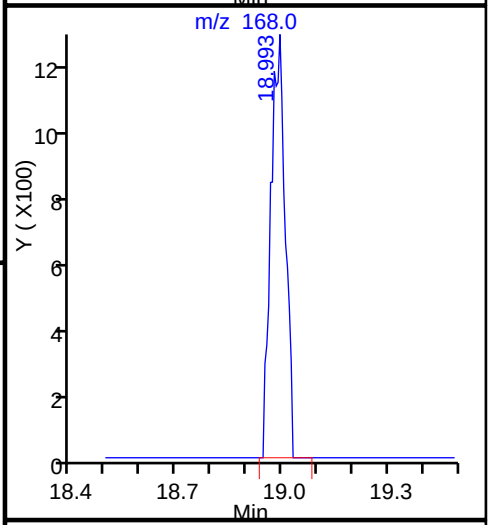
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

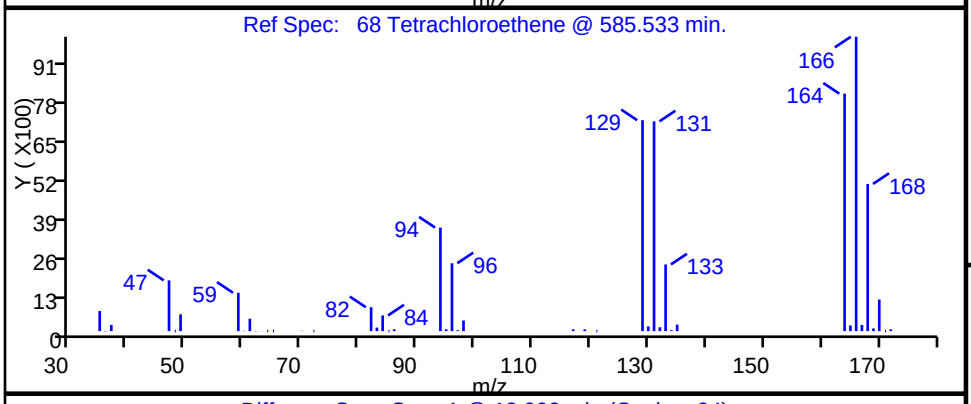
68 Tetrachloroethene, CAS: 127-18-4

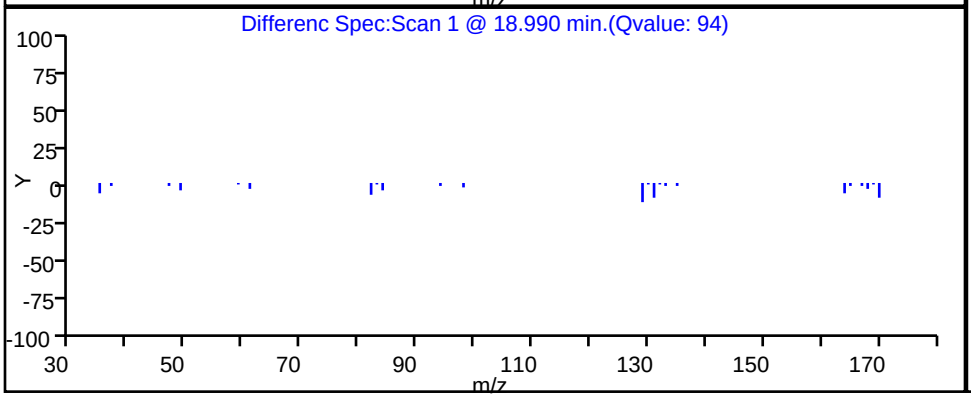


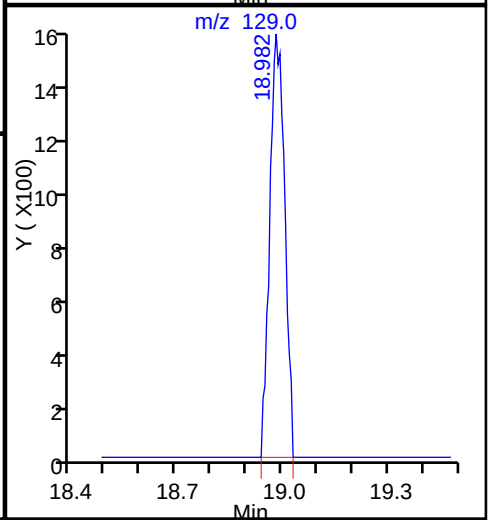












Manual Integration/User Assign Peak Report

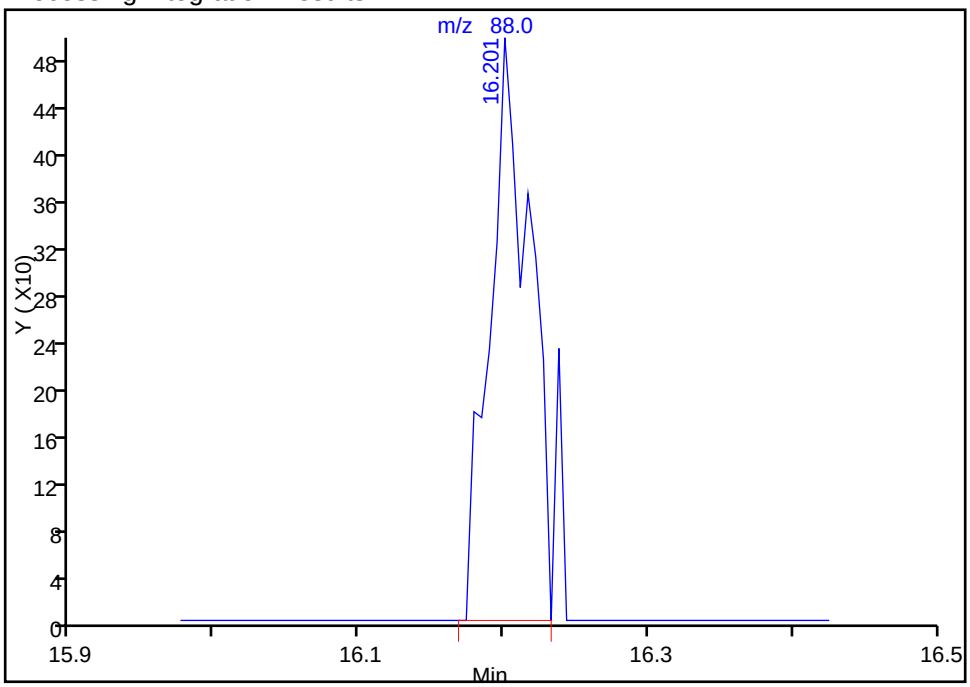
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d				
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

56 1,4-Dioxane, CAS: 123-91-1

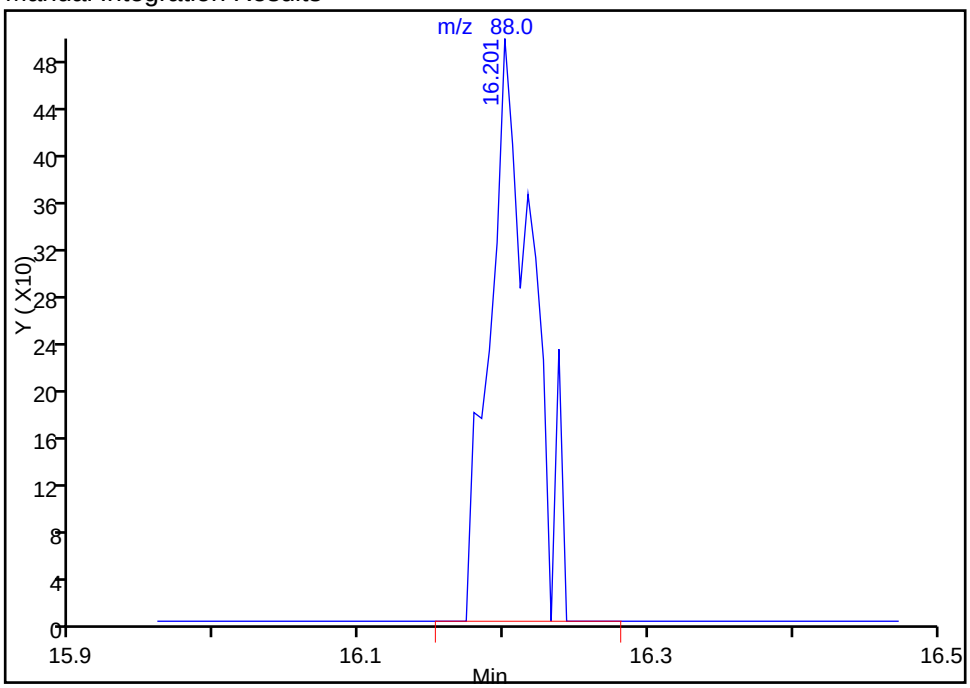
Processing Integration Results

RT: 16.20
Area: 960
Amount: 0.111241
Amount Units: ppb v/v



Manual Integration Results

RT: 16.20
Area: 1034
Amount: 0.119816
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:28:07
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

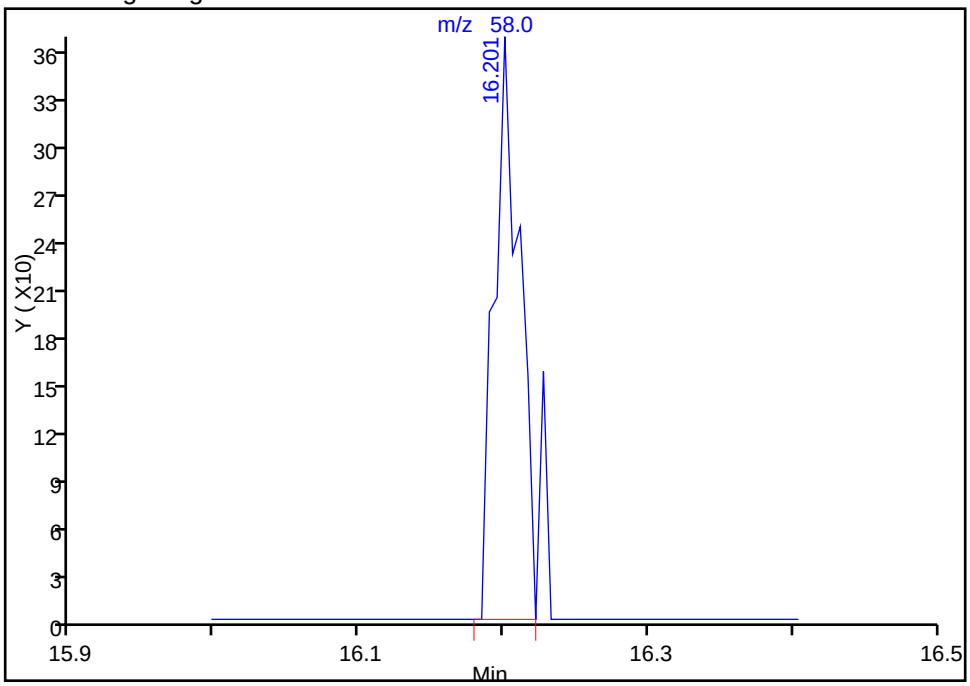
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d				
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

56 1,4-Dioxane, CAS: 123-91-1

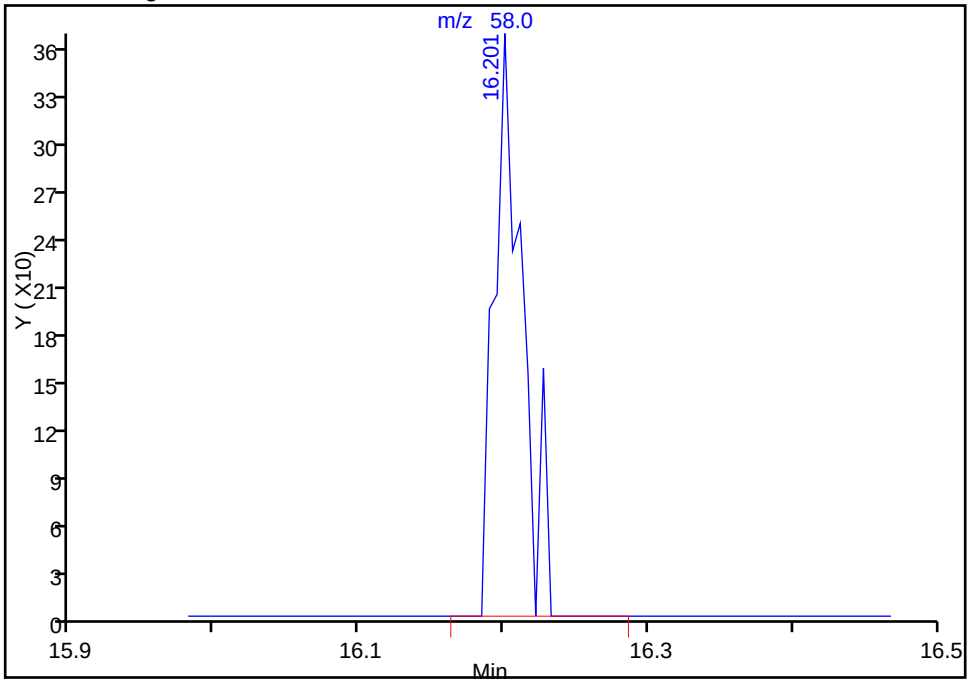
Processing Integration Results

RT: 16.20
Area: 441
Amount: 0.111241
Amount Units: ppb v/v



Manual Integration Results

RT: 16.20
Area: 491
Amount: 0.119816
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:28:07
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

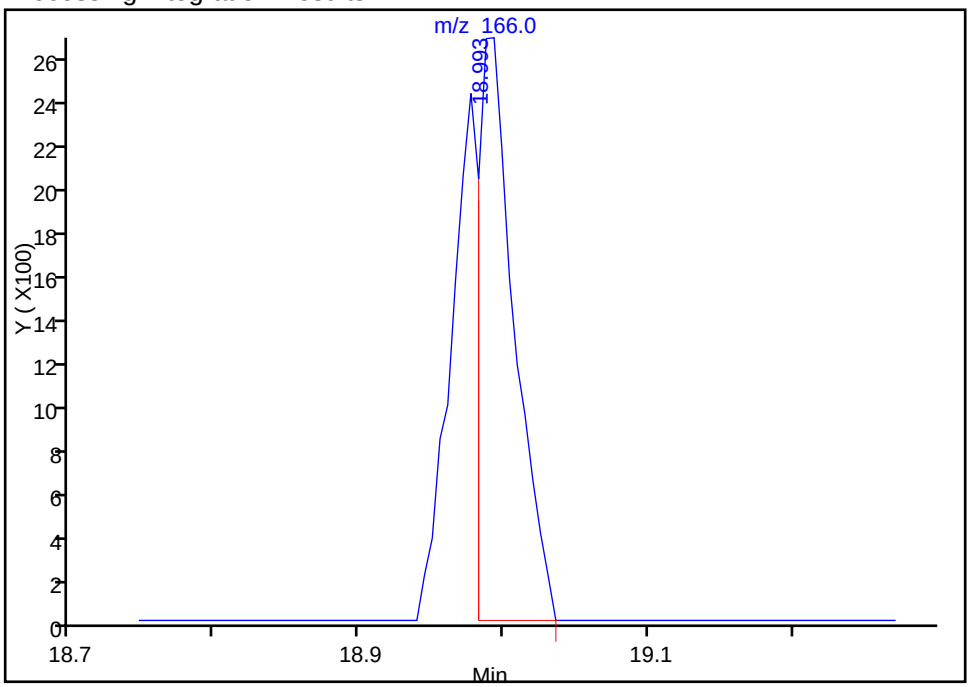
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d				
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

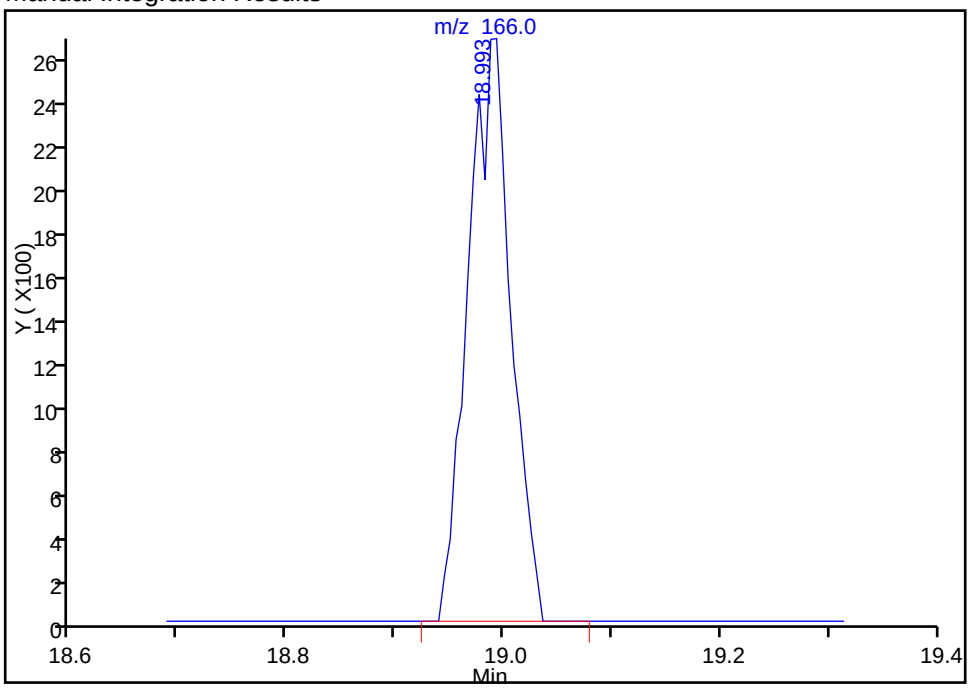
Processing Integration Results

RT: 18.99
Area: 4583
Amount: 0.098985
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 7251
Amount: 0.156610
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:28:07
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

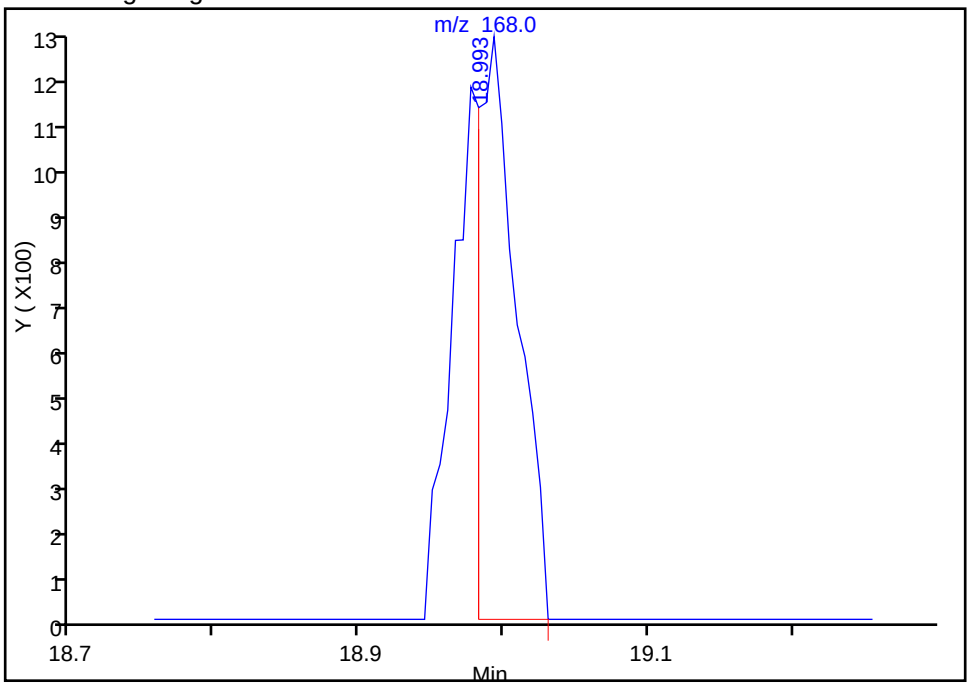
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_013.d				
Injection Date:	30-Sep-2015 20:57:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	200.000 mL	Dil. Factor:	39.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

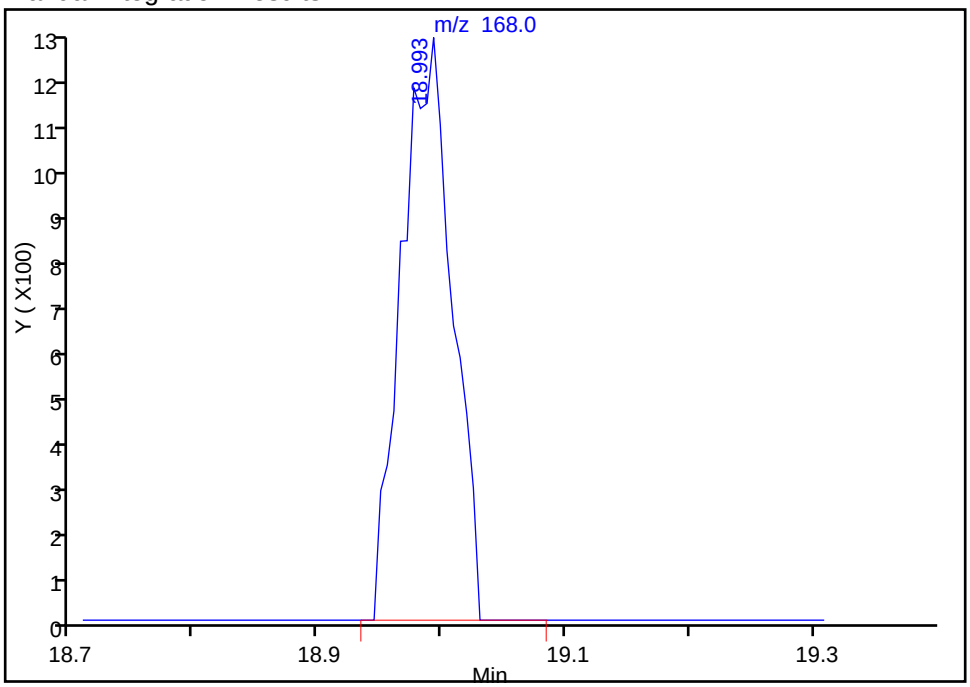
Processing Integration Results

RT: 18.99
Area: 2317
Amount: 0.098985
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 3543
Amount: 0.156610
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:28:07
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 DL Lab Sample ID: 200-29972-15 DL

Matrix: Air Lab File ID: 16024_014.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 44(mL) Date Analyzed: 09/30/2015 21:45

Soil Aliquot Vol: Dilution Factor: 180

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	90	U	90	14
75-45-6	Freon 22	86.47	90	U	90	10
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	36	U	36	6.8
74-87-3	Chloromethane	50.49	90	U	90	17
106-97-8	n-Butane	58.12	22	J D	90	14
75-01-4	Vinyl chloride	62.50	7.2	U	7.2	5.8
106-99-0	1,3-Butadiene	54.09	36	U	36	16
74-83-9	Bromomethane	94.94	36	U	36	10
75-00-3	Chloroethane	64.52	320	D	90	15
593-60-2	Bromoethene(Vinyl Bromide)	106.96	36	U	36	7.9
75-69-4	Trichlorofluoromethane	137.37	75	D	36	6.8
76-13-1	Freon TF	187.38	36	U	36	14
75-35-4	1,1-Dichloroethene	96.94	4400	D	36	6.5
67-64-1	Acetone	58.08	900	U	900	150
67-63-0	Isopropyl alcohol	60.10	900	U	900	180
75-15-0	Carbon disulfide	76.14	90	U	90	7.7
107-05-1	3-Chloropropene	76.53	90	U	90	12
75-09-2	Methylene Chloride	84.93	90	U	90	32
75-65-0	tert-Butyl alcohol	74.12	900	U	900	150
1634-04-4	Methyl tert-butyl ether	88.15	36	U	36	16
156-60-5	trans-1,2-Dichloroethene	96.94	36	U	36	7.7
110-54-3	n-Hexane	86.17	36	U	36	9.7
75-34-3	1,1-Dichloroethane	98.96	2000	D	36	4.5
78-93-3	Methyl Ethyl Ketone	72.11	90	U	90	9.4
156-59-2	cis-1,2-Dichloroethene	96.94	36	U	36	6.3
540-59-0	1,2-Dichloroethene, Total	96.94	72	U	72	6.3
67-66-3	Chloroform	119.38	36	U	36	15
109-99-9	Tetrahydrofuran	72.11	900	U	900	250
71-55-6	1,1,1-Trichloroethane	133.41	3600	D	36	8.3
110-82-7	Cyclohexane	84.16	36	U	36	7.0
56-23-5	Carbon tetrachloride	153.81	7.2	U	7.2	5.8
540-84-1	2,2,4-Trimethylpentane	114.23	36	U	36	7.0
71-43-2	Benzene	78.11	36	U	36	7.6
107-06-2	1,2-Dichloroethane	98.96	36	U	36	7.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 DL Lab Sample ID: 200-29972-15 DL

Matrix: Air Lab File ID: 16024_014.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 44(mL) Date Analyzed: 09/30/2015 21:45

Soil Aliquot Vol: Dilution Factor: 180

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	36	U	36	7.2
79-01-6	Trichloroethene	131.39	14	D	7.2	7.0
80-62-6	Methyl methacrylate	100.12	90	U	90	7.2
78-87-5	1,2-Dichloropropane	112.99	36	U	36	4.9
123-91-1	1,4-Dioxane	88.11	900	U	900	100
75-27-4	Bromodichloromethane	163.83	36	U	36	5.4
10061-01-5	cis-1,3-Dichloropropene	110.97	36	U	36	4.1
108-10-1	methyl isobutyl ketone	100.16	90	U	90	9.0
108-88-3	Toluene	92.14	36	U	36	17
10061-02-6	trans-1,3-Dichloropropene	110.97	36	U	36	6.1
79-00-5	1,1,2-Trichloroethane	133.41	36	U	36	7.0
127-18-4	Tetrachloroethene	165.83	5.9	J D	36	4.1
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	90	U	90	10
124-48-1	Dibromochloromethane	208.29	36	U	36	7.9
106-93-4	1,2-Dibromoethane	187.87	36	U	36	7.0
108-90-7	Chlorobenzene	112.56	36	U	36	8.8
100-41-4	Ethylbenzene	106.17	36	U	36	5.9
179601-23-1	m,p-Xylene	106.17	90	U	90	13
95-47-6	Xylene, o-	106.17	36	U	36	6.7
1330-20-7	Xylene (total)	106.17	130	U	130	6.7
100-42-5	Styrene	104.15	36	U	36	7.7
75-25-2	Bromoform	252.75	36	U	36	10
98-82-8	Cumene	120.19	36	U	36	5.4
79-34-5	1,1,2,2-Tetrachloroethane	167.85	36	U	36	7.9
103-65-1	n-Propylbenzene	120.19	36	U	36	7.7
622-96-8	4-Ethyltoluene	120.20	36	U	36	7.9
108-67-8	1,3,5-Trimethylbenzene	120.20	36	U	36	7.0
95-49-8	2-Chlorotoluene	126.59	36	U	36	5.9
98-06-6	tert-Butylbenzene	134.22	36	U	36	7.9
95-63-6	1,2,4-Trimethylbenzene	120.20	36	U	36	7.7
135-98-8	sec-Butylbenzene	134.22	36	U	36	7.9
99-87-6	4-Isopropyltoluene	134.22	36	U	36	6.7
541-73-1	1,3-Dichlorobenzene	147.00	36	U	36	9.9
106-46-7	1,4-Dichlorobenzene	147.00	36	U	36	10

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 DL Lab Sample ID: 200-29972-15 DL

Matrix: Air Lab File ID: 16024_014.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 44(mL) Date Analyzed: 09/30/2015 21:45

Soil Aliquot Vol: Dilution Factor: 180

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*36*	*U*	*36*	*9.5*
104-51-8	*n-Butylbenzene*	*134.22*	*36*	*U*	*36*	*8.5*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*36*	*U*	*36*	*9.9*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*90*	*U*	*90*	*12*
87-68-3	*Hexachlorobutadiene*	*260.76*	*36*	*U*	*36*	*15*
91-20-3	*Naphthalene*	*128.17*	*90*	*U*	*90*	*10*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 DL | Lab Sample ID: 200-29972-15 DL

Matrix: Air | Lab File ID: 16024_014.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 44(mL) | Date Analyzed: 09/30/2015 21:45

Soil Aliquot Vol: | Dilution Factor: 180

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	450	U	450	71
75-45-6	Freon 22	86.47	320	U	320	36
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	250	U	250	48
74-87-3	Chloromethane	50.49	190	U	190	35
106-97-8	n-Butane	58.12	52	J D	210	33
75-01-4	Vinyl chloride	62.50	18	U	18	15
106-99-0	1,3-Butadiene	54.09	80	U	80	35
74-83-9	Bromomethane	94.94	140	U	140	39
75-00-3	Chloroethane	64.52	840	D	240	40
593-60-2	Bromoethene(Vinyl Bromide)	106.96	160	U	160	35
75-69-4	Trichlorofluoromethane	137.37	420	D	200	38
76-13-1	Freon TF	187.38	280	U	280	100
75-35-4	1,1-Dichloroethene	96.94	17000	D	140	26
67-64-1	Acetone	58.08	2100	U	2100	370
67-63-0	Isopropyl alcohol	60.10	2200	U	2200	430
75-15-0	Carbon disulfide	76.14	280	U	280	24
107-05-1	3-Chloropropene	76.53	280	U	280	38
75-09-2	Methylene Chloride	84.93	310	U	310	110
75-65-0	tert-Butyl alcohol	74.12	2700	U	2700	460
1634-04-4	Methyl tert-butyl ether	88.15	130	U	130	58
156-60-5	trans-1,2-Dichloroethene	96.94	140	U	140	31
110-54-3	n-Hexane	86.17	130	U	130	34
75-34-3	1,1-Dichloroethane	98.96	8200	D	150	18
78-93-3	Methyl Ethyl Ketone	72.11	270	U	270	28
156-59-2	cis-1,2-Dichloroethene	96.94	140	U	140	25
540-59-0	1,2-Dichloroethene, Total	96.94	290	U	290	25
67-66-3	Chloroform	119.38	180	U	180	72
109-99-9	Tetrahydrofuran	72.11	2700	U	2700	740
71-55-6	1,1,1-Trichloroethane	133.41	20000	D	200	45
110-82-7	Cyclohexane	84.16	120	U	120	24
56-23-5	Carbon tetrachloride	153.81	45	U	45	36
540-84-1	2,2,4-Trimethylpentane	114.23	170	U	170	33
71-43-2	Benzene	78.11	120	U	120	24
107-06-2	1,2-Dichloroethane	98.96	150	U	150	30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 DL | Lab Sample ID: 200-29972-15 DL

Matrix: Air | Lab File ID: 16024_014.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 44(mL) | Date Analyzed: 09/30/2015 21:45

Soil Aliquot Vol: | Dilution Factor: 180

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	150	U	150	30
79-01-6	Trichloroethene	131.39	76	D	39	38
80-62-6	Methyl methacrylate	100.12	370	U	370	29
78-87-5	1,2-Dichloropropane	112.99	170	U	170	22
123-91-1	1,4-Dioxane	88.11	3200	U	3200	360
75-27-4	Bromodichloromethane	163.83	240	U	240	36
10061-01-5	cis-1,3-Dichloropropene	110.97	160	U	160	19
108-10-1	methyl isobutyl ketone	100.16	370	U	370	37
108-88-3	Toluene	92.14	140	U	140	63
10061-02-6	trans-1,3-Dichloropropene	110.97	160	U	160	28
79-00-5	1,1,2-Trichloroethane	133.41	200	U	200	38
127-18-4	Tetrachloroethene	165.83	40	J D	240	28
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	370	U	370	42
124-48-1	Dibromochloromethane	208.29	310	U	310	67
106-93-4	1,2-Dibromoethane	187.87	280	U	280	54
108-90-7	Chlorobenzene	112.56	170	U	170	41
100-41-4	Ethylbenzene	106.17	160	U	160	26
179601-23-1	m,p-Xylene	106.17	390	U	390	55
95-47-6	Xylene, o-	106.17	160	U	160	29
1330-20-7	Xylene (total)	106.17	550	U	550	29
100-42-5	Styrene	104.15	150	U	150	33
75-25-2	Bromoform	252.75	370	U	370	100
98-82-8	Cumene	120.19	180	U	180	27
79-34-5	1,1,2,2-Tetrachloroethane	167.85	250	U	250	54
103-65-1	n-Propylbenzene	120.19	180	U	180	38
622-96-8	4-Ethyltoluene	120.20	180	U	180	39
108-67-8	1,3,5-Trimethylbenzene	120.20	180	U	180	35
95-49-8	2-Chlorotoluene	126.59	190	U	190	31
98-06-6	tert-Butylbenzene	134.22	200	U	200	43
95-63-6	1,2,4-Trimethylbenzene	120.20	180	U	180	38
135-98-8	sec-Butylbenzene	134.22	200	U	200	43
99-87-6	4-Isopropyltoluene	134.22	200	U	200	37
541-73-1	1,3-Dichlorobenzene	147.00	220	U	220	60
106-46-7	1,4-Dichlorobenzene	147.00	220	U	220	62

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS08-092315 DL Lab Sample ID: 200-29972-15 DL

Matrix: Air Lab File ID: 16024_014.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 44(mL) Date Analyzed: 09/30/2015 21:45

Soil Aliquot Vol: Dilution Factor: 180

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*190*	*U*	*190*	*49*
104-51-8	*n-Butylbenzene*	*134.22*	*200*	*U*	*200*	*46*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*220*	*U*	*220*	*60*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*670*	*U*	*670*	*91*
87-68-3	*Hexachlorobutadiene*	*260.76*	*380*	*U*	*380*	*160*
91-20-3	*Naphthalene*	*128.17*	*470*	*U*	*470*	*54*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d
Lims ID: 200-29972-A-15 Lab Sample ID: 200-29972-15
Client ID: FR-SS08-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 21:45:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 200.000 mL Dil. Factor: 180.0000
Sample Info: 200-0016024-014
Misc. Info.: 29972-15
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:29:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85		4.431				ND	
3 Chlorodifluoromethane	51		4.501				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50		5.009				ND	
6 Butane	43	5.282	5.292	-0.010	4	1379	0.1207	M
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64	6.673	6.678	-0.005	99	10835	1.77	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.288	7.299	-0.011	97	18886	0.4145	
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	96	318570	24.4	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.171				ND	
24 Isopropyl alcohol	45	9.241	9.219	0.022	93	1926	0.1708	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49		9.931				ND	
28 2-Methyl-2-propanol	59		10.113				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63	11.423	11.429	-0.006	99	229292	11.3	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72		12.654				ND	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.103	13.114	-0.011	72	126411	10.0	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.510				ND	
44 1,1,1-Trichloroethane	97	13.526	13.531	-0.005	93	727803	20.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117		13.782				ND	
	46 Isooctane	57		14.184				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	93	585631	10.0	
	53 Trichloroethene	95	15.468	15.478	-0.010	91	1603	0.0788	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.190				ND	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.624				ND	
	65 Toluene	92		17.955				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.865				ND	
	68 Tetrachloroethene	166	18.977	18.988	-0.011	90	1223	0.0328	M
	69 2-Hexanone	43		19.261				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	535264	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91		20.898				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.796				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105		22.347				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.973				ND	
	88 4-Ethyltoluene	105		23.139				ND	
	89 2-Chlorotoluene	91		23.177				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.262				ND	
	96 1,3-Dichlorobenzene	146		24.332				ND	
	97 1,4-Dichlorobenzene	146		24.482				ND	
	98 Benzyl chloride	91		24.707				ND	
	100 n-Butylbenzene	91		24.921				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.130				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128		28.767				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

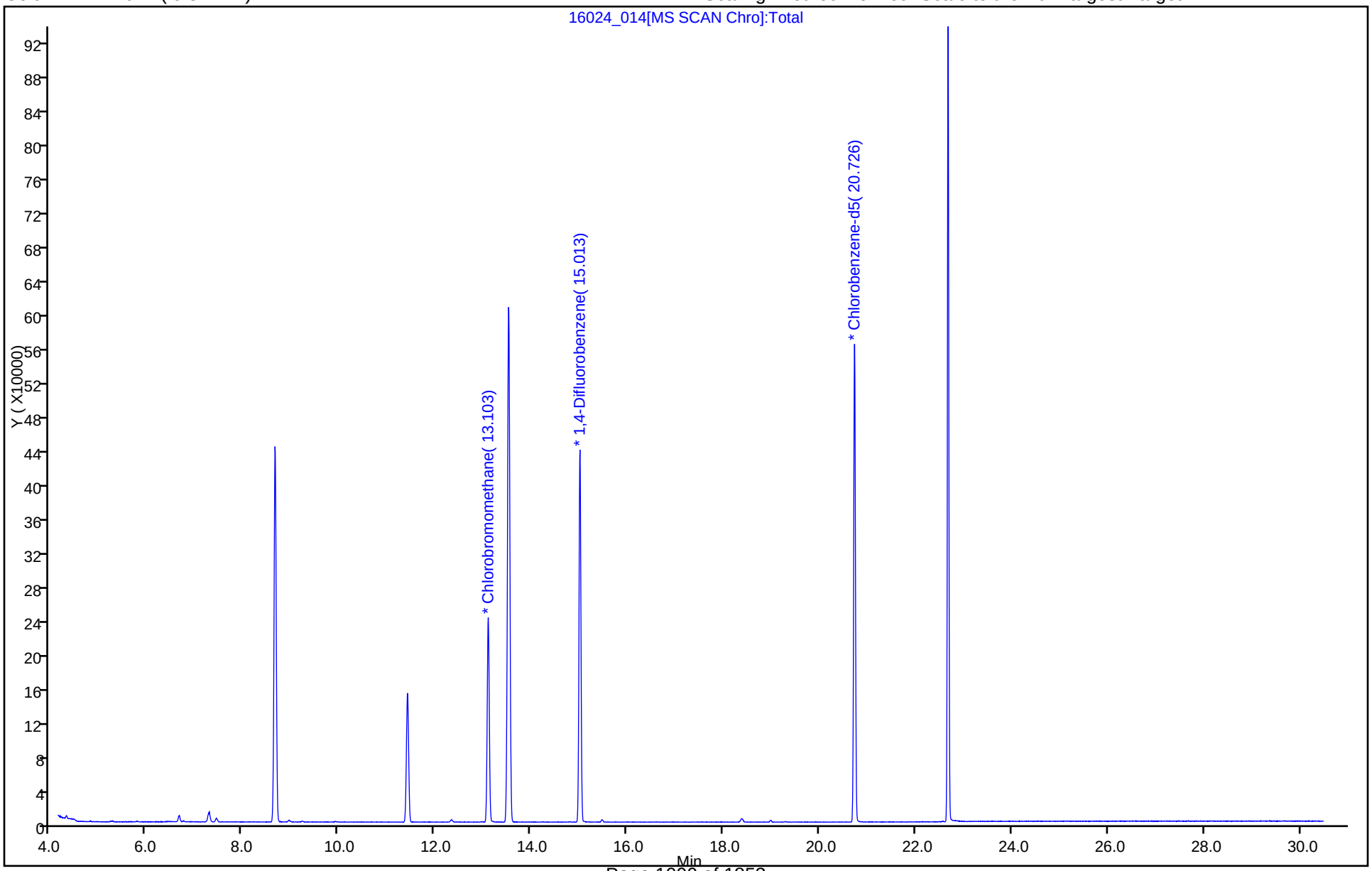
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15	Worklist Smp#:	14
Client ID:	FR-SS08-092315				
Purge Vol:	200.000 mL	Dil. Factor:	180.0000	ALS Bottle#:	13
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



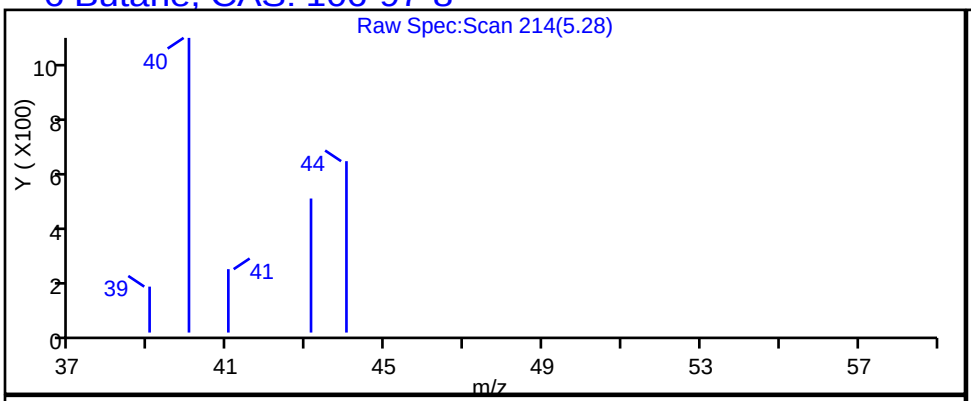
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

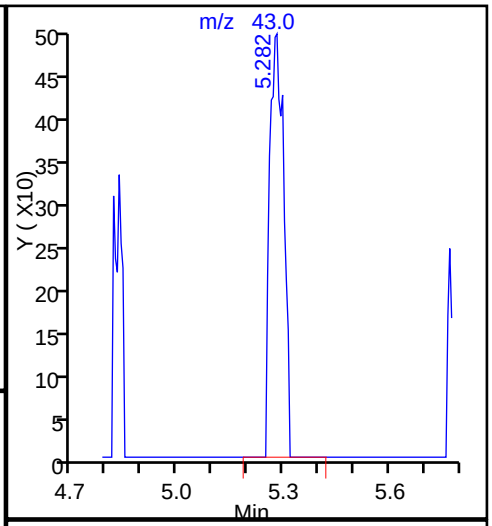
TestAmerica Burlington

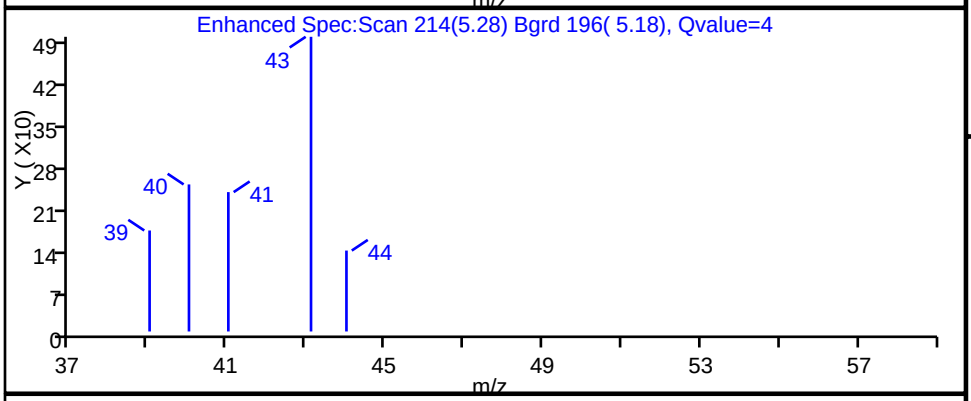
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

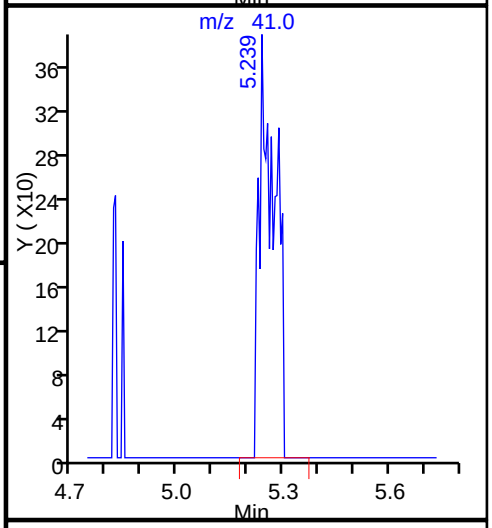
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

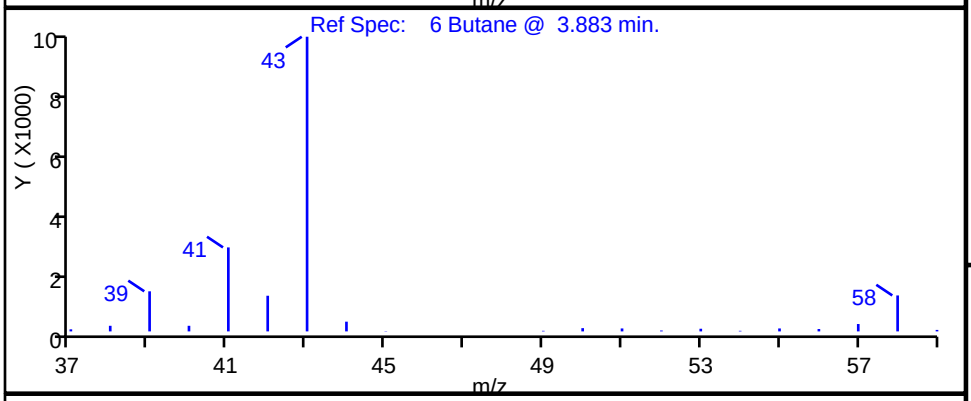
6 Butane, CAS: 106-97-8

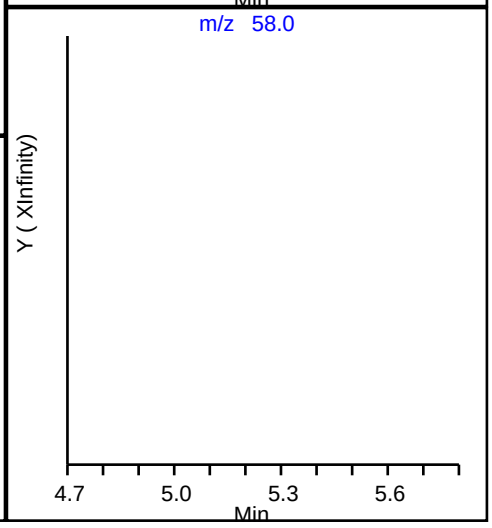


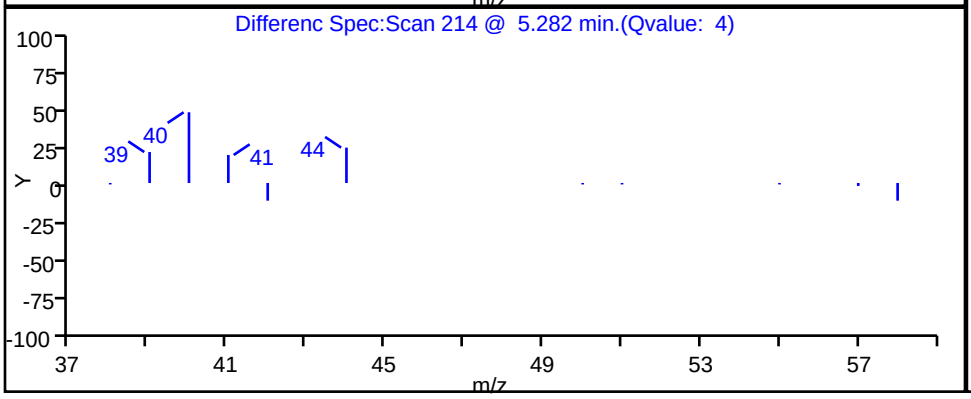












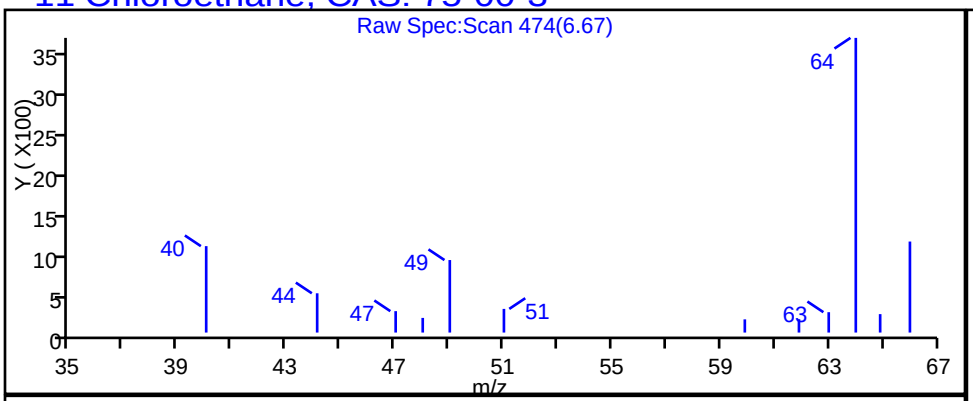
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

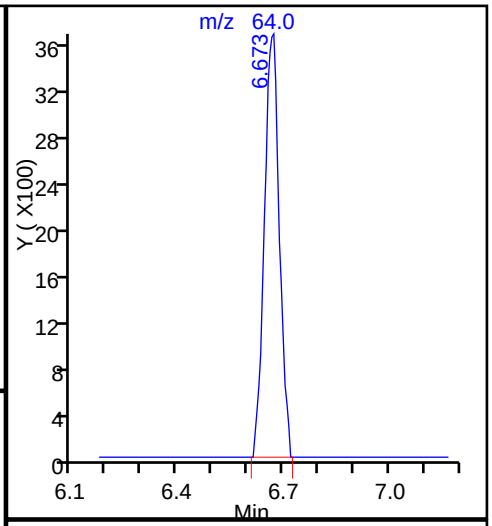
TestAmerica Burlington

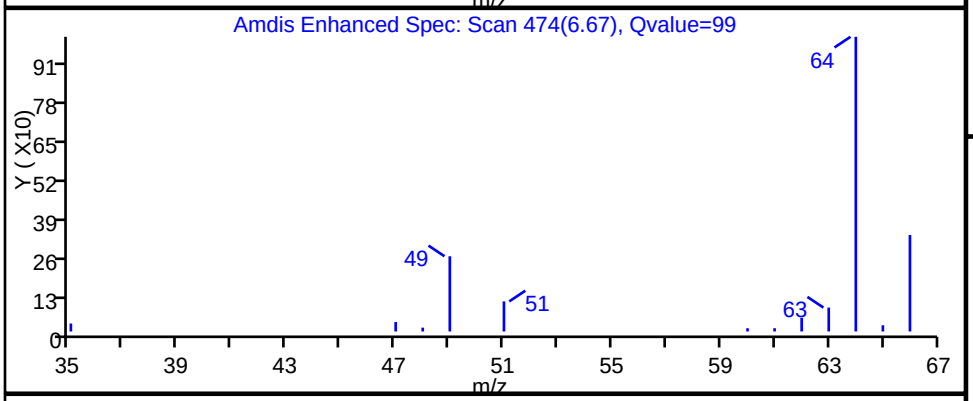
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

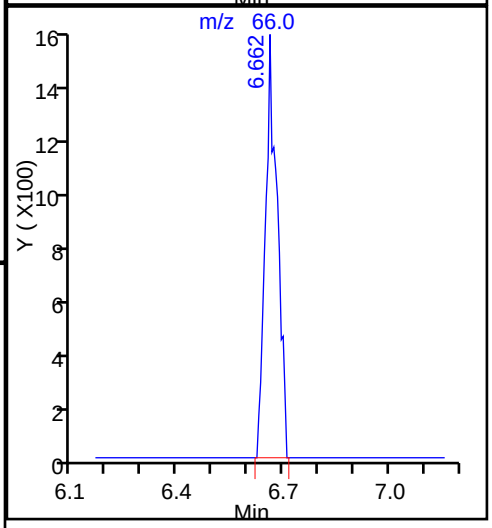
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

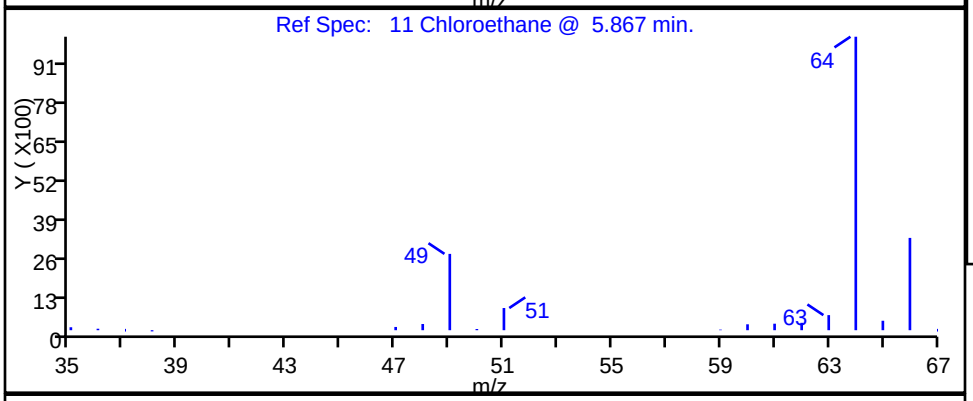
11 Chloroethane, CAS: 75-00-3

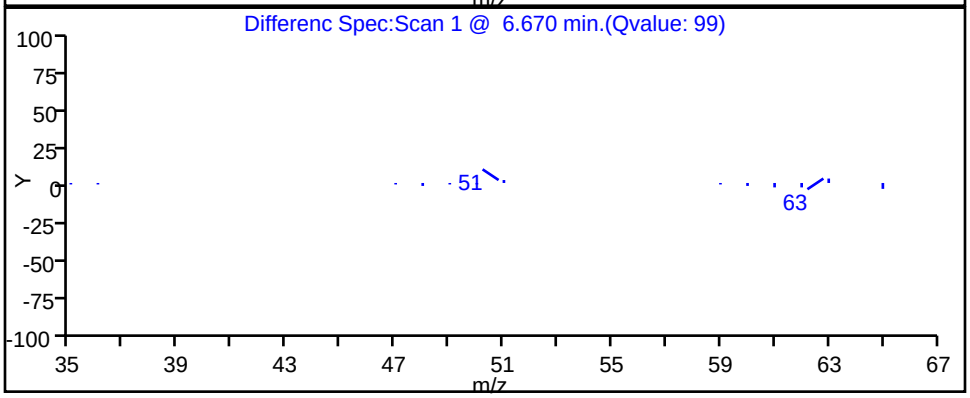












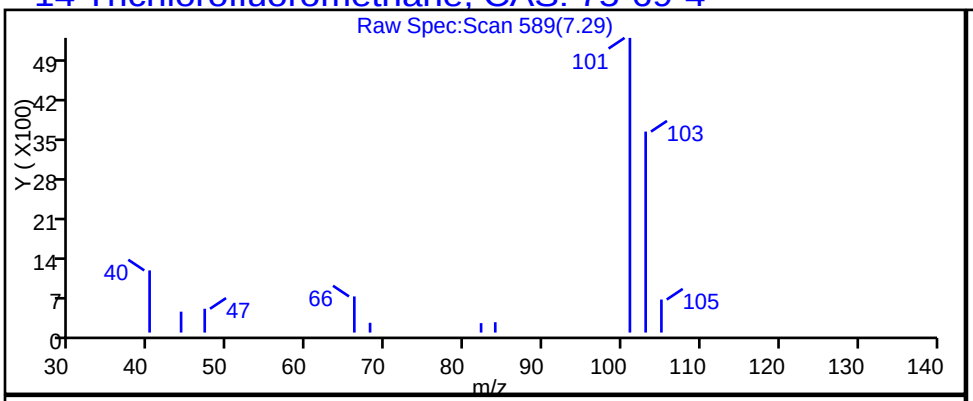
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

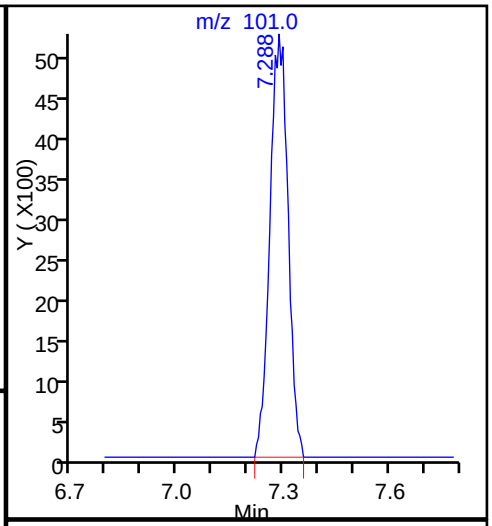
TestAmerica Burlington

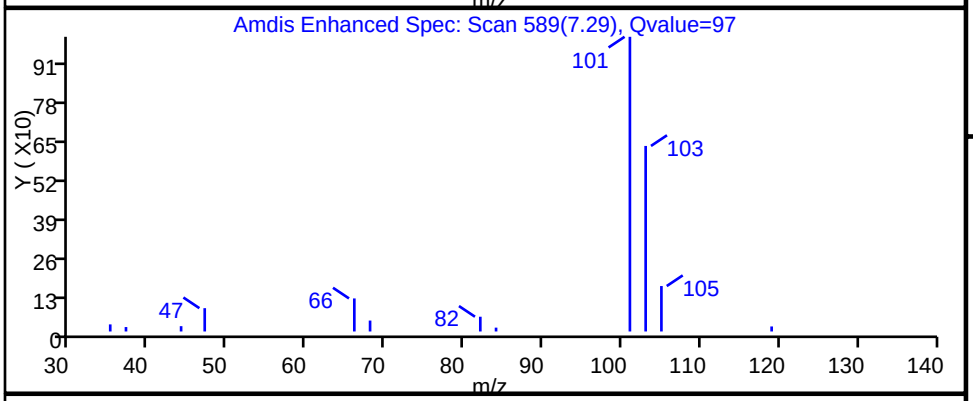
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

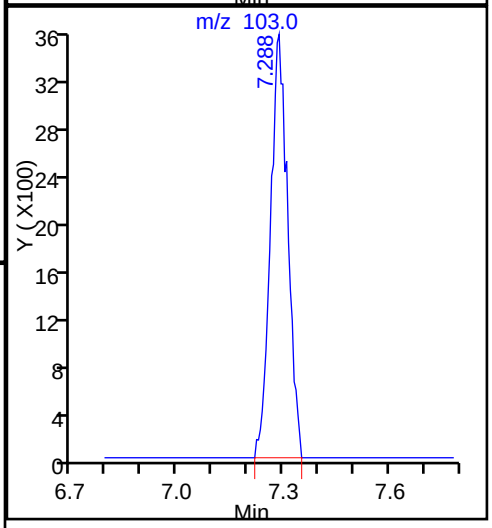
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

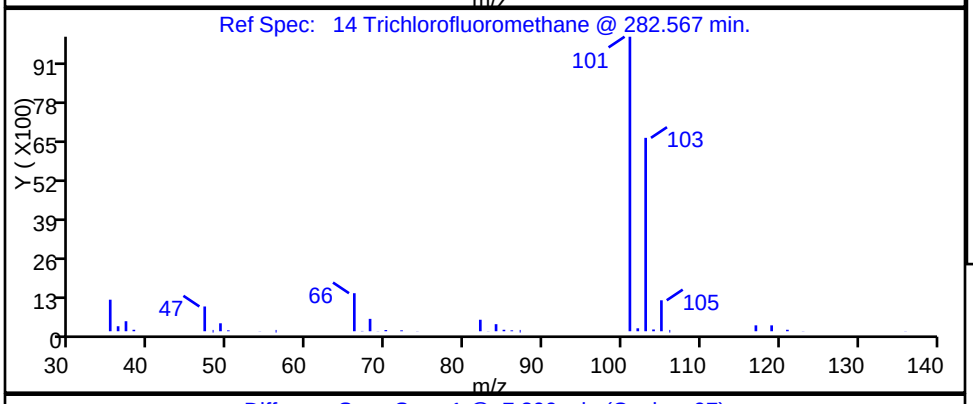
14 Trichlorofluoromethane, CAS: 75-69-4

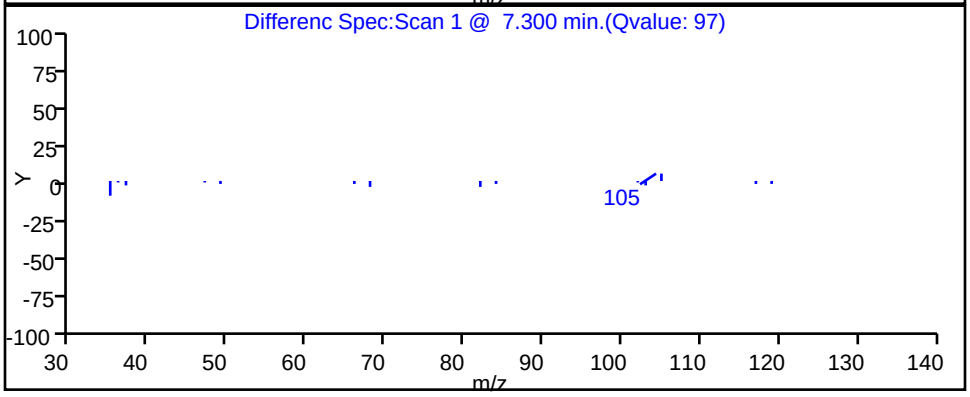












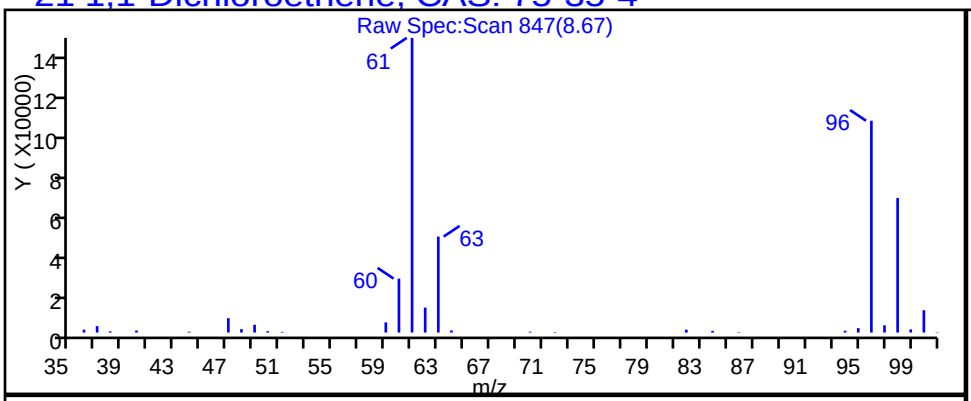
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

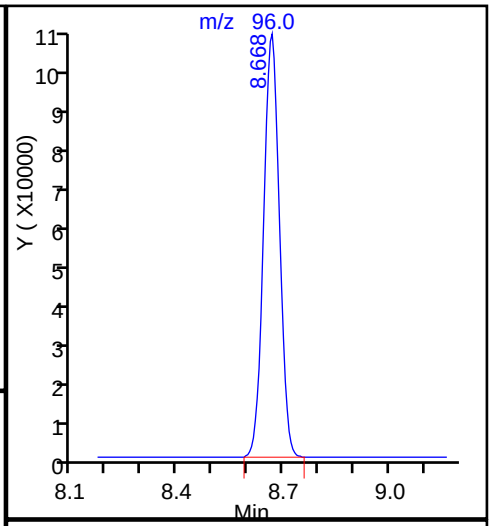
TestAmerica Burlington

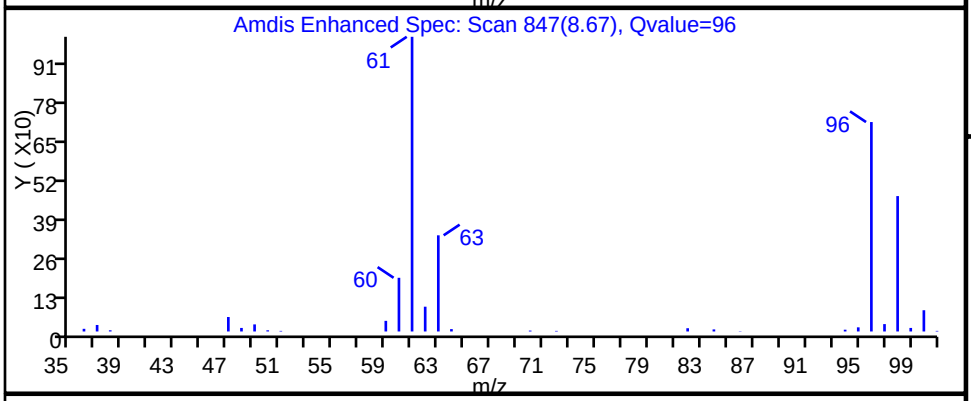
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

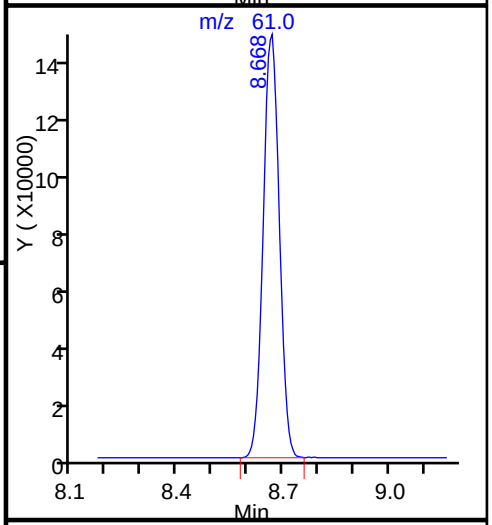
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

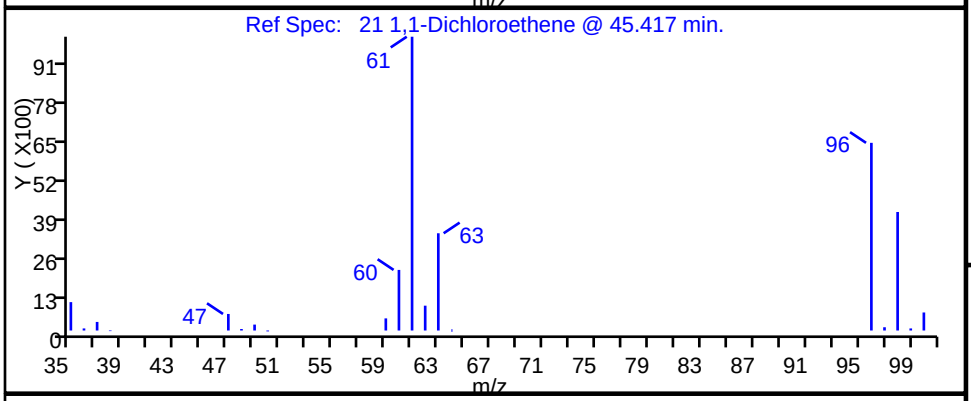
21 1,1-Dichloroethene, CAS: 75-35-4

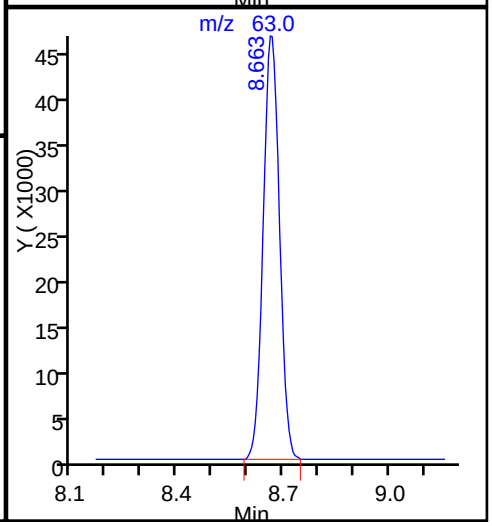


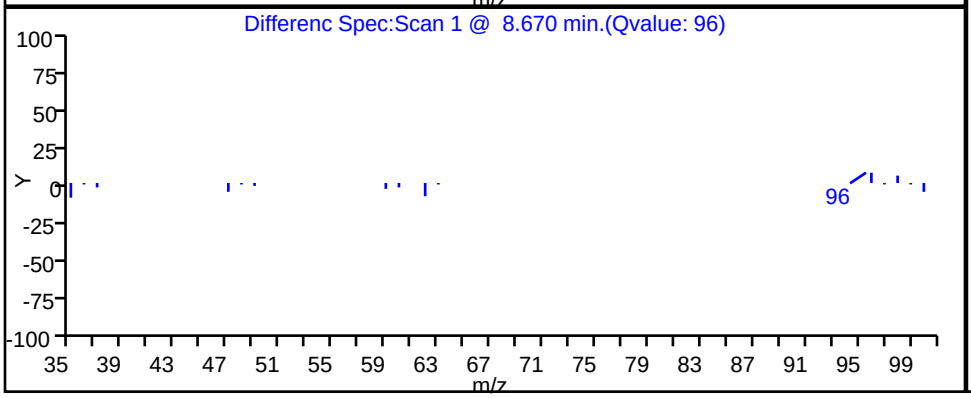












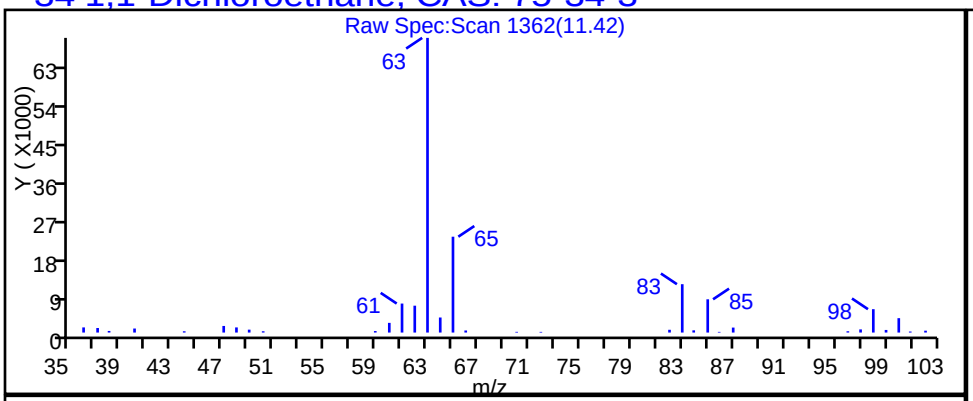
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

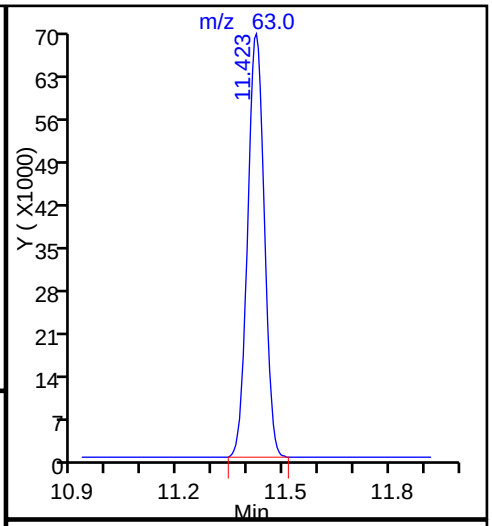
TestAmerica Burlington

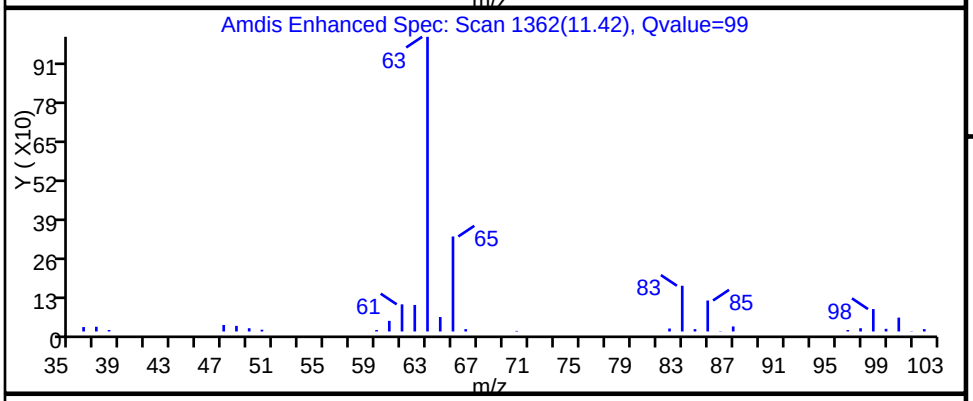
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

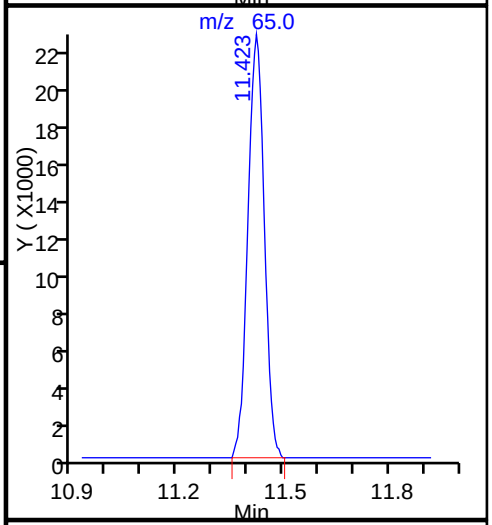
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

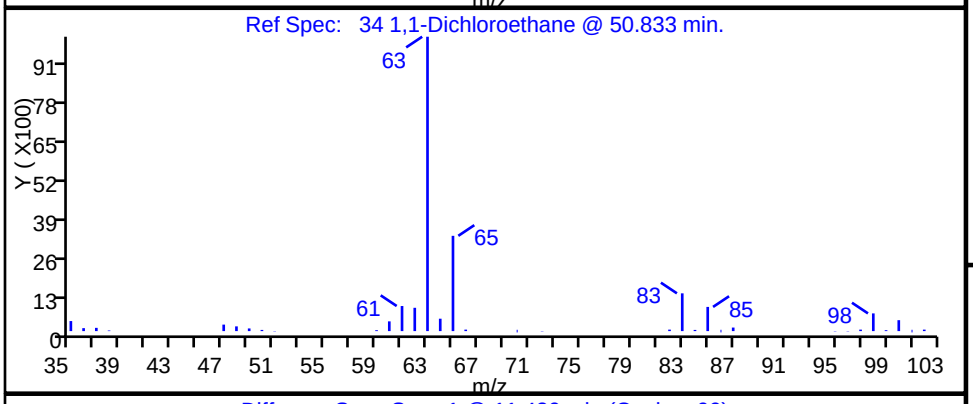
34 1,1-Dichloroethane, CAS: 75-34-3

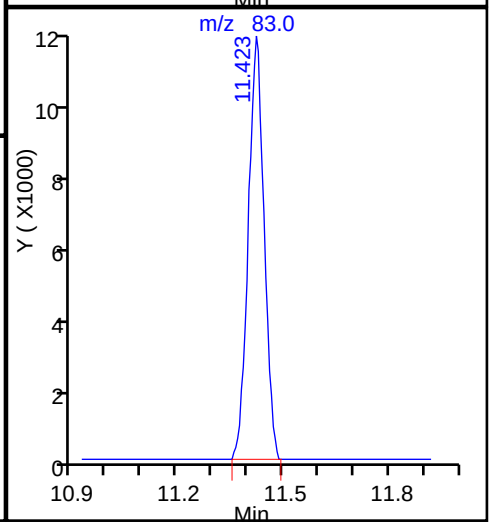


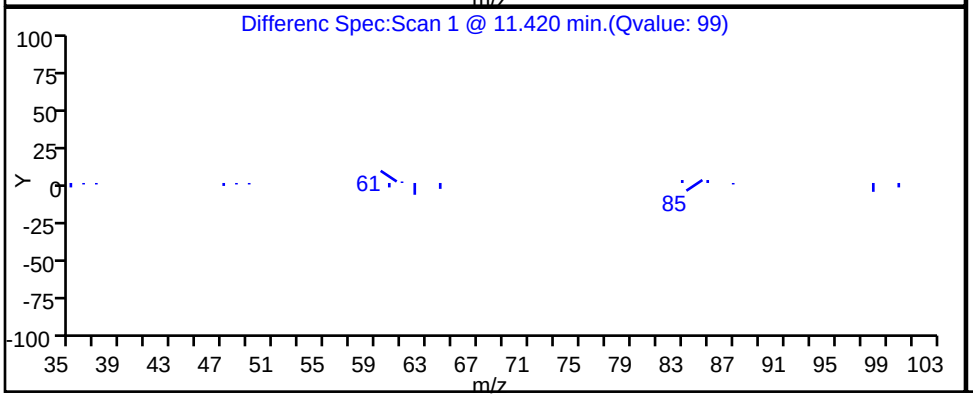












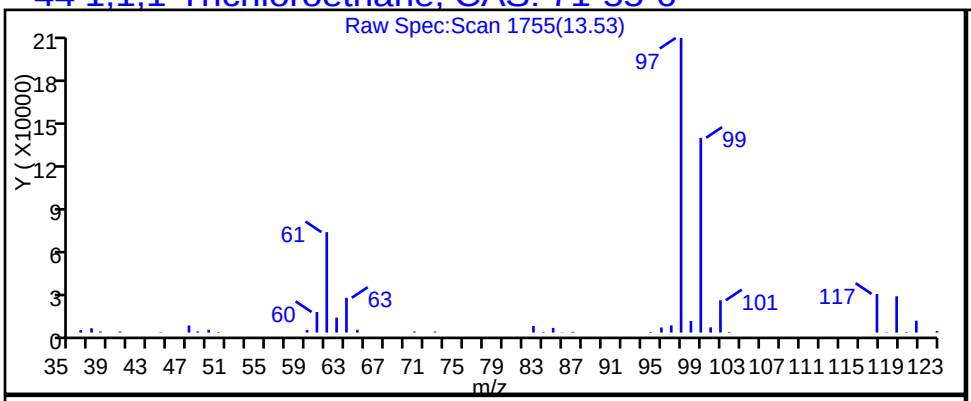
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

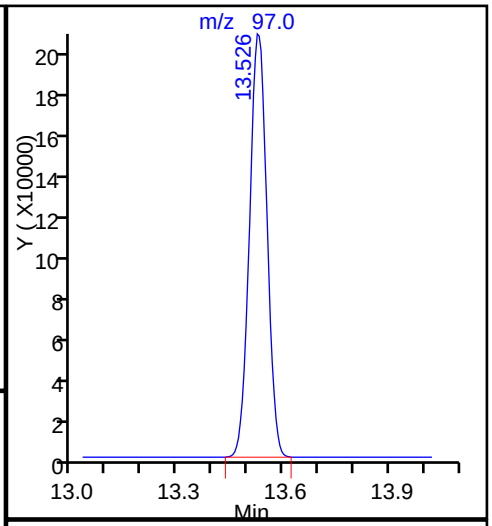
TestAmerica Burlington

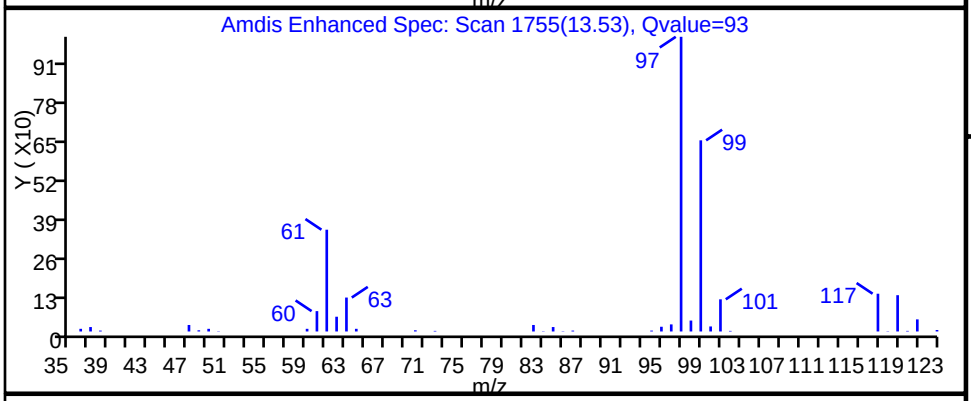
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

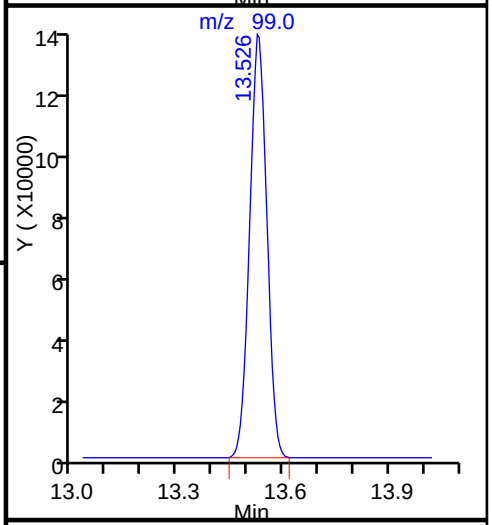
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

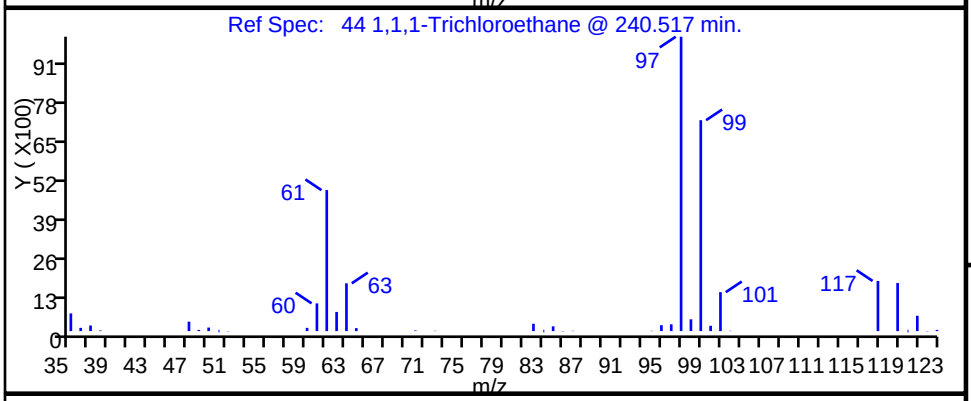
44 1,1,1-Trichloroethane, CAS: 71-55-6

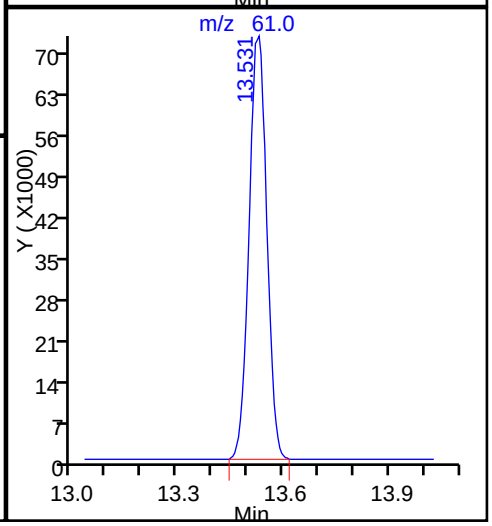


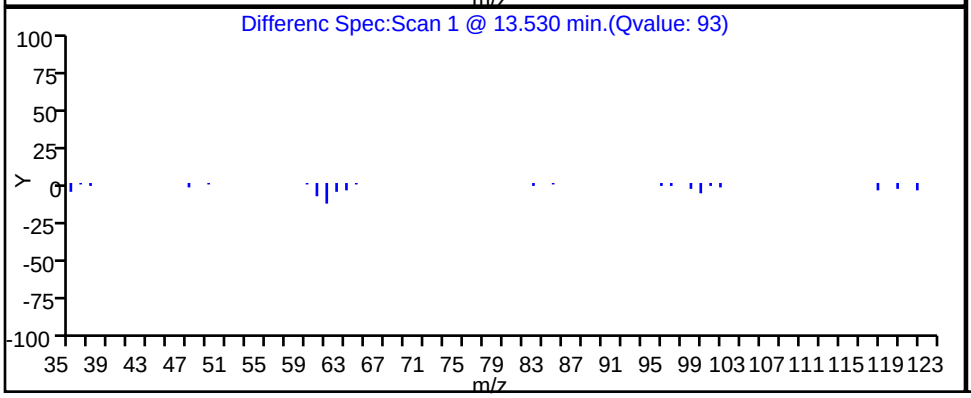












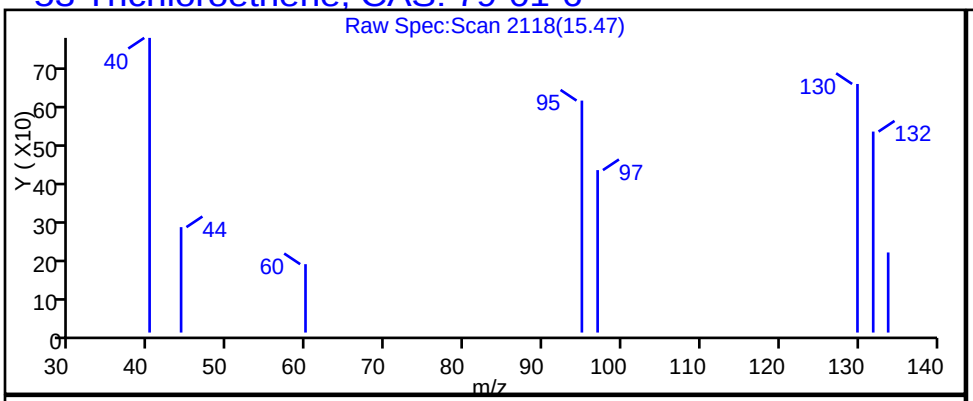
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

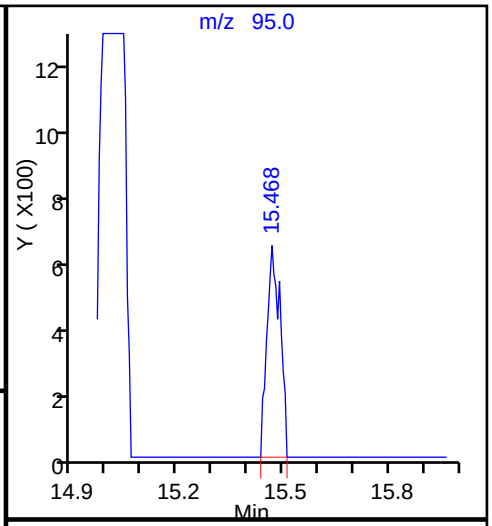
TestAmerica Burlington

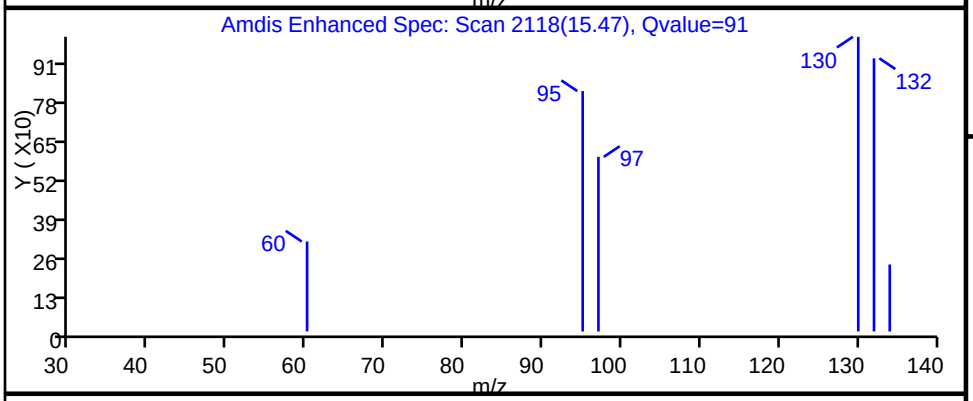
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

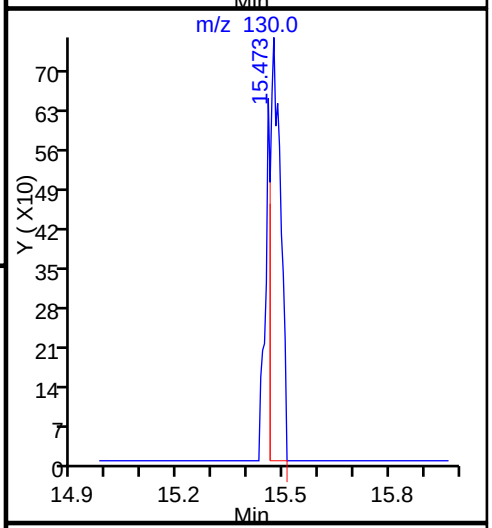
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

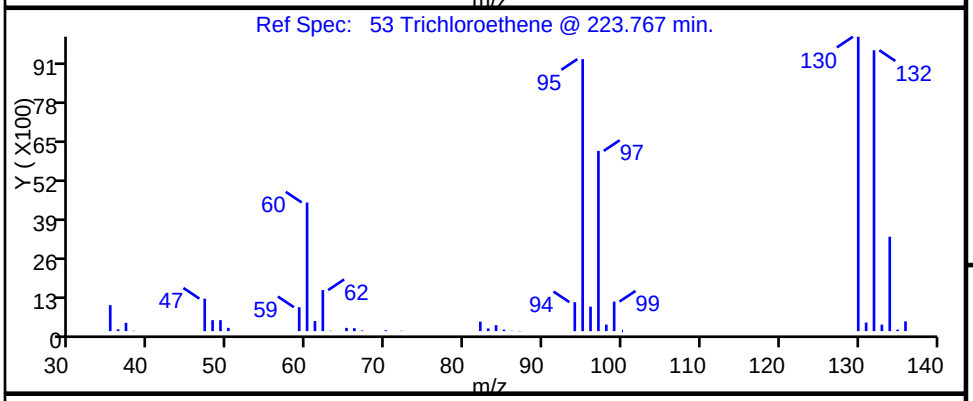
53 Trichloroethene, CAS: 79-01-6

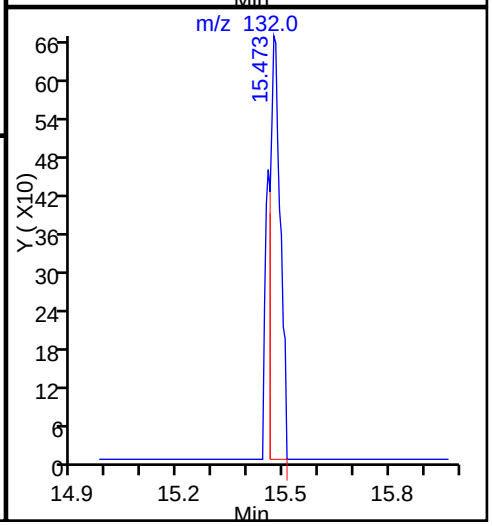


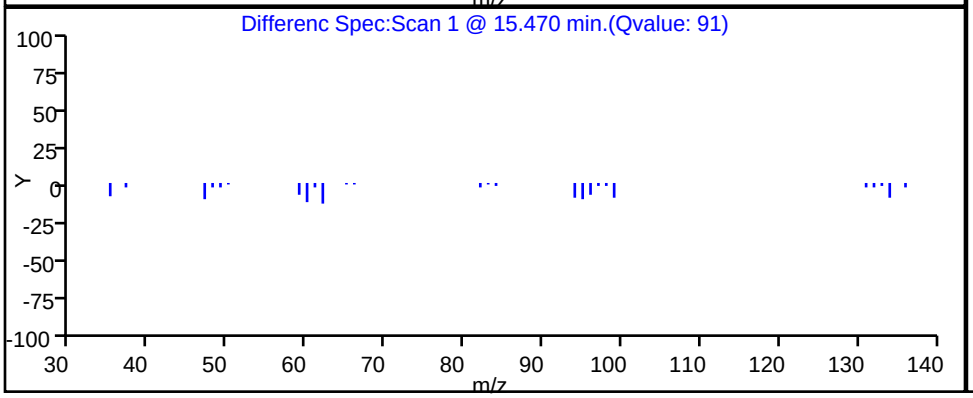












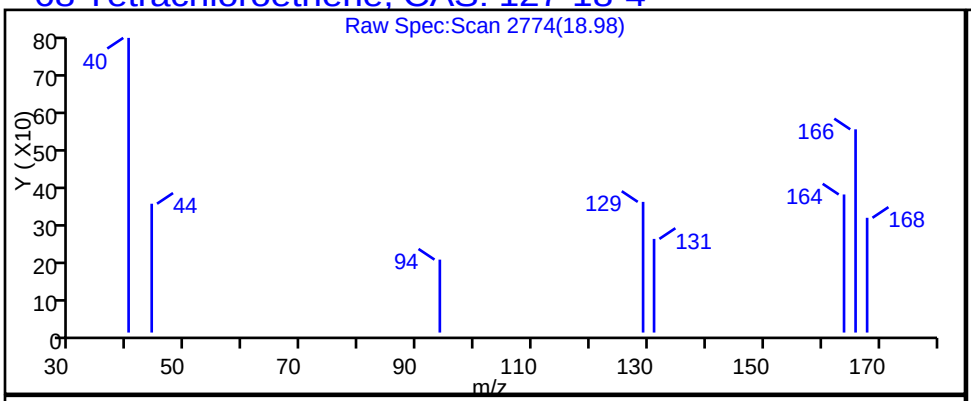
Report Date: 01-Oct-2015 12:53:39 Chrom Revision: 2.2 23-Jul-2015 08:26:08

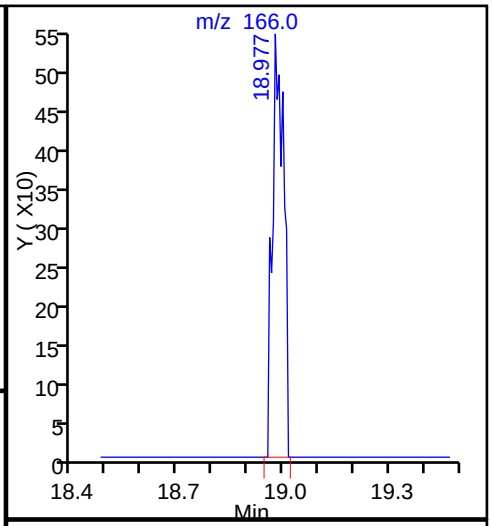
TestAmerica Burlington

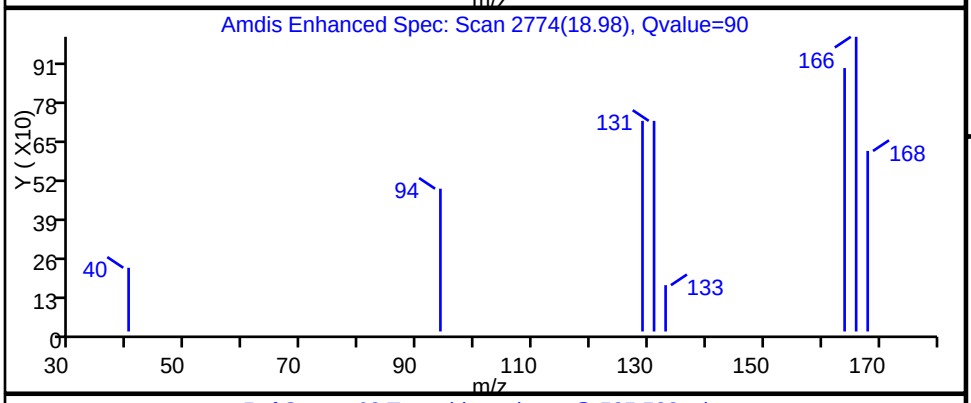
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d

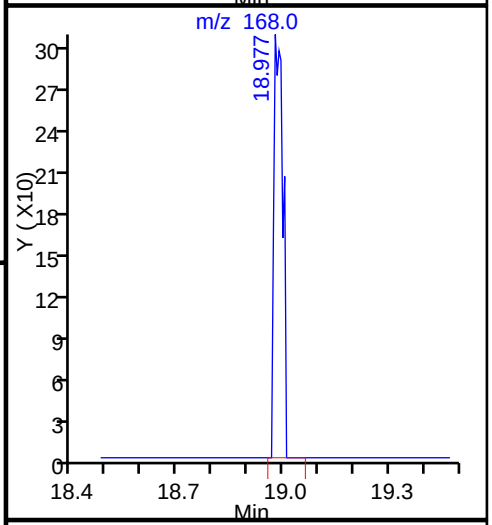
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

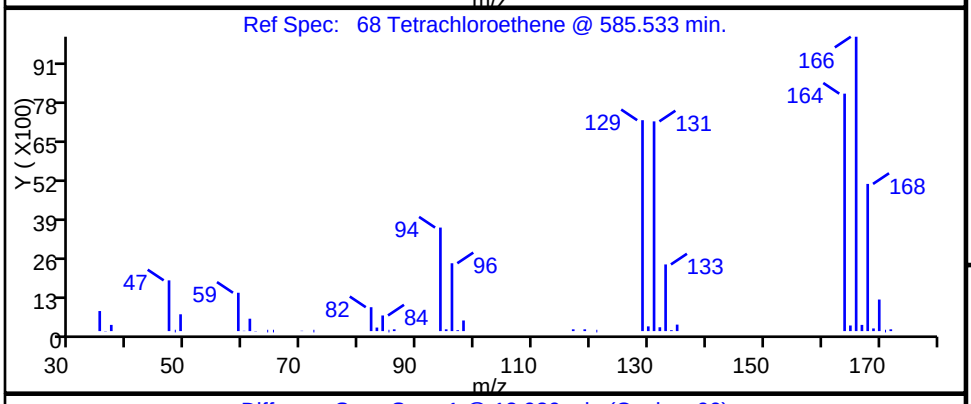
68 Tetrachloroethene, CAS: 127-18-4

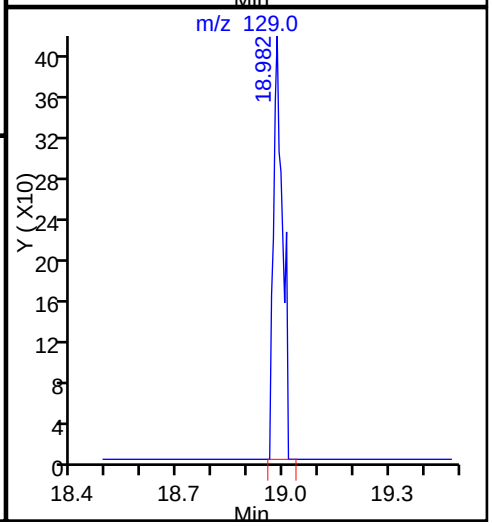


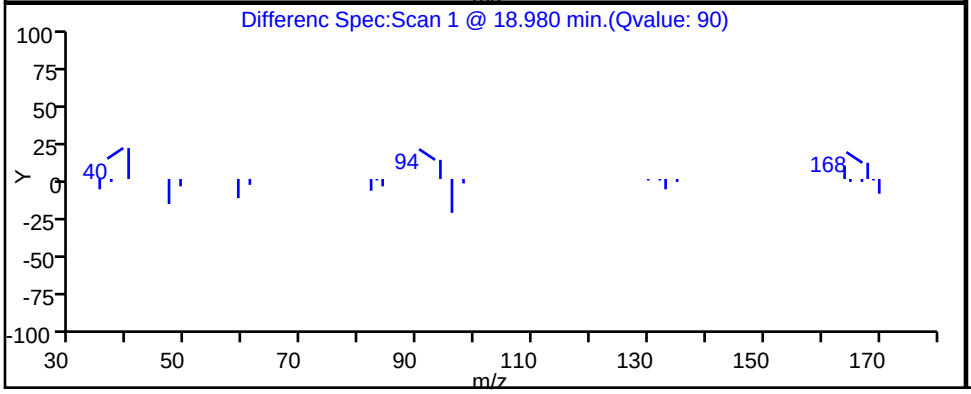












Manual Integration/User Assign Peak Report

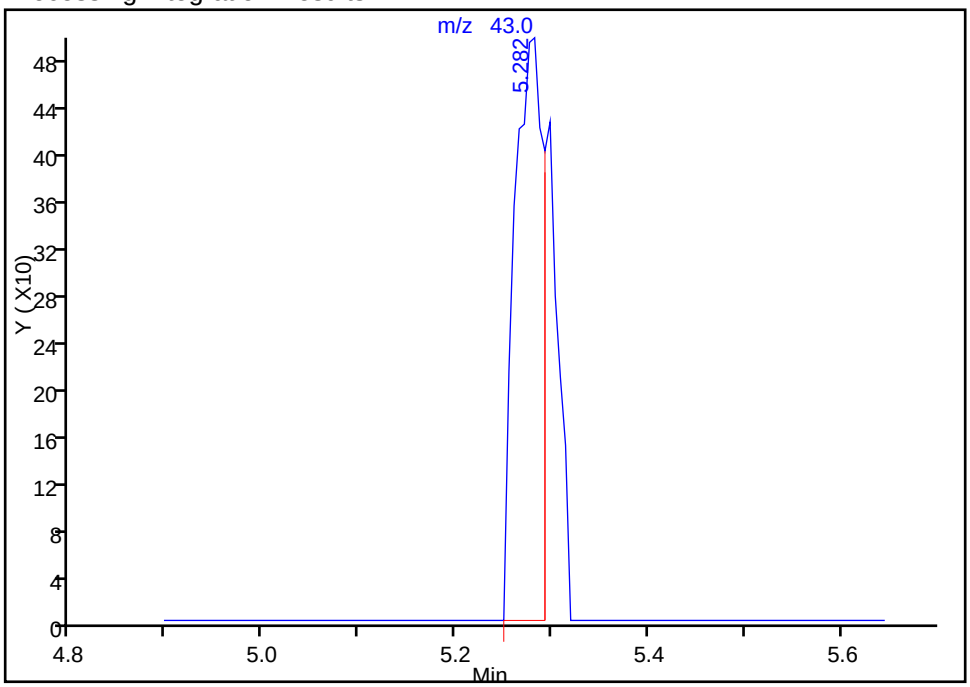
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d				
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

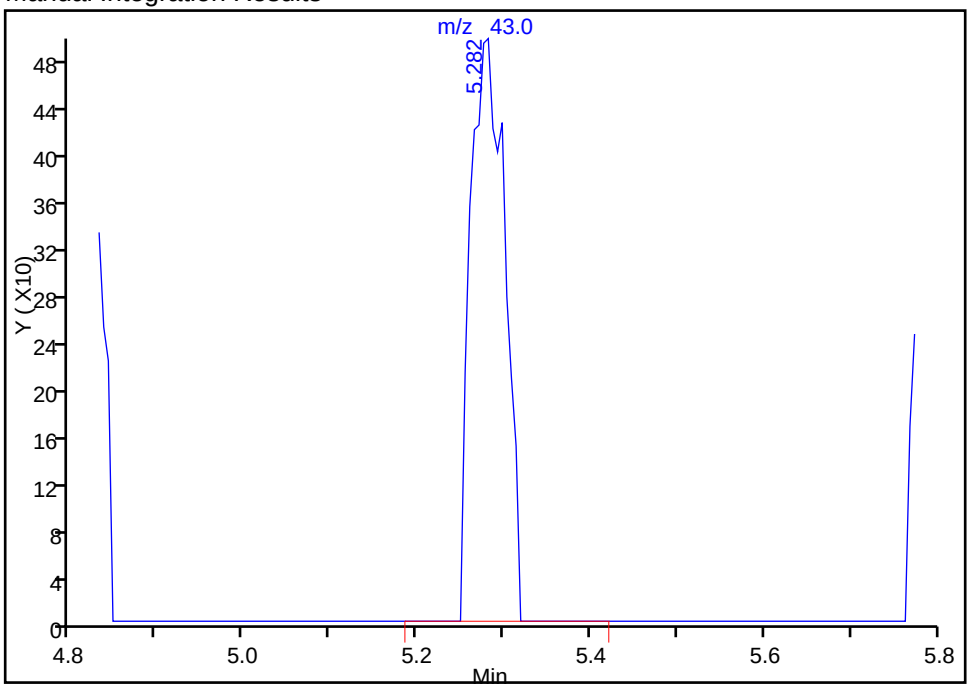
Processing Integration Results

RT: 5.28
Area: 1037
Amount: 0.090778
Amount Units: ppb v/v



Manual Integration Results

RT: 5.28
Area: 1379
Amount: 0.120716
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:29:46
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

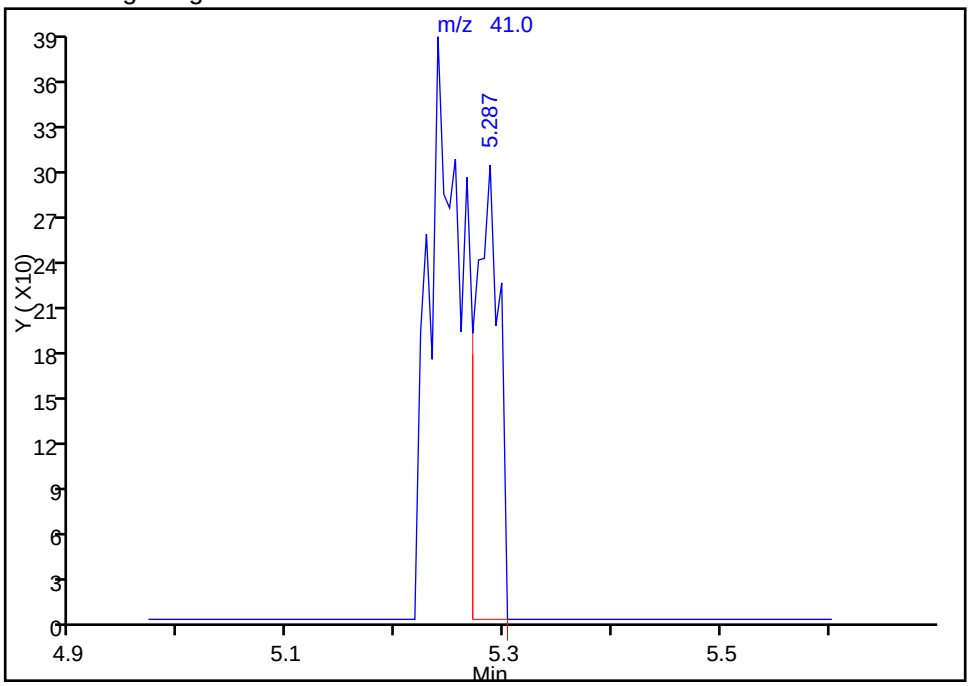
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d				
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

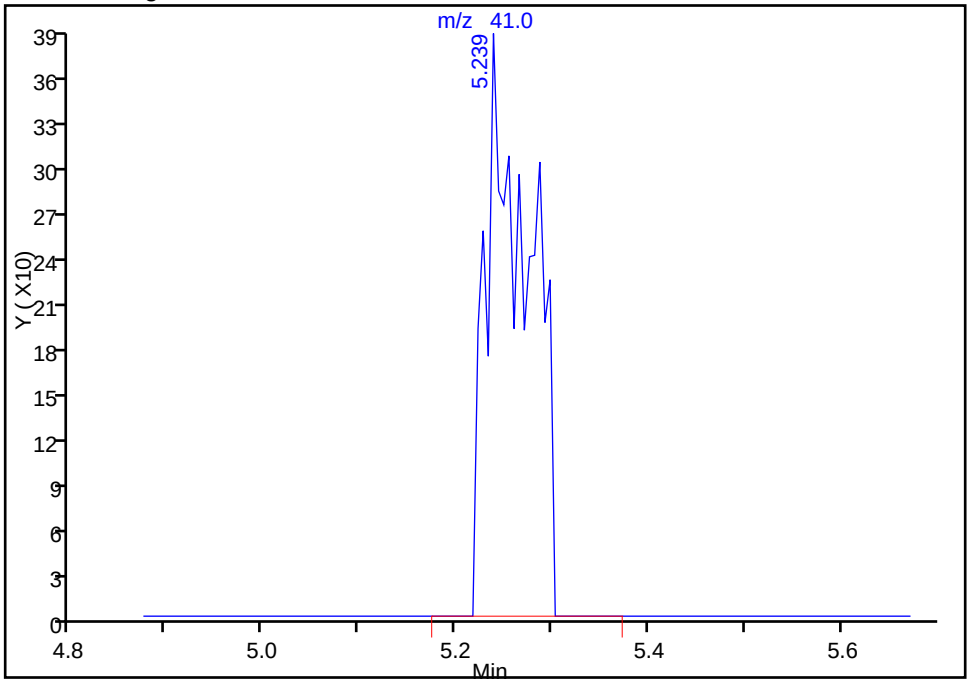
Processing Integration Results

RT: 5.29
Area: 439
Amount: 0.090778
Amount Units: ppb v/v



Manual Integration Results

RT: 5.24
Area: 1182
Amount: 0.120716
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:29:46
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

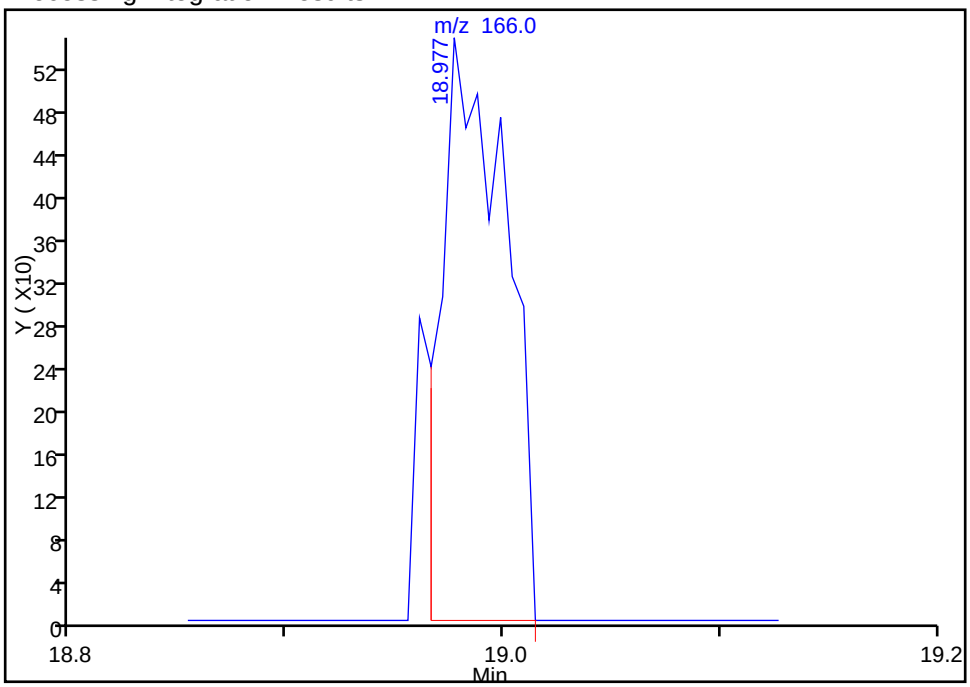
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d				
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

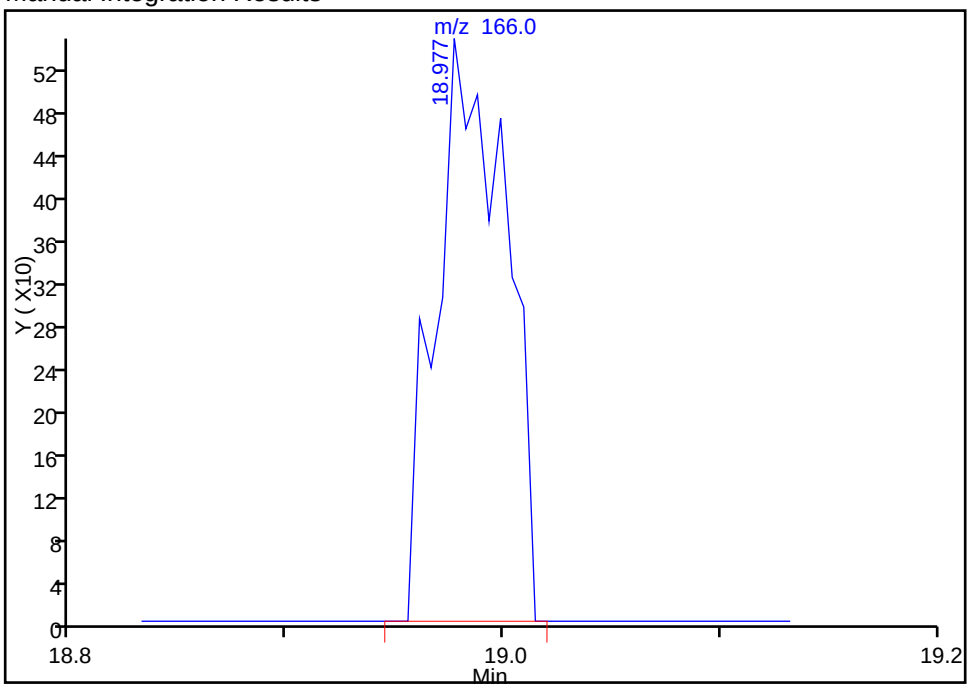
Processing Integration Results

RT: 18.98
Area: 1131
Amount: 0.030356
Amount Units: ppb v/v



Manual Integration Results

RT: 18.98
Area: 1223
Amount: 0.032826
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:29:46
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

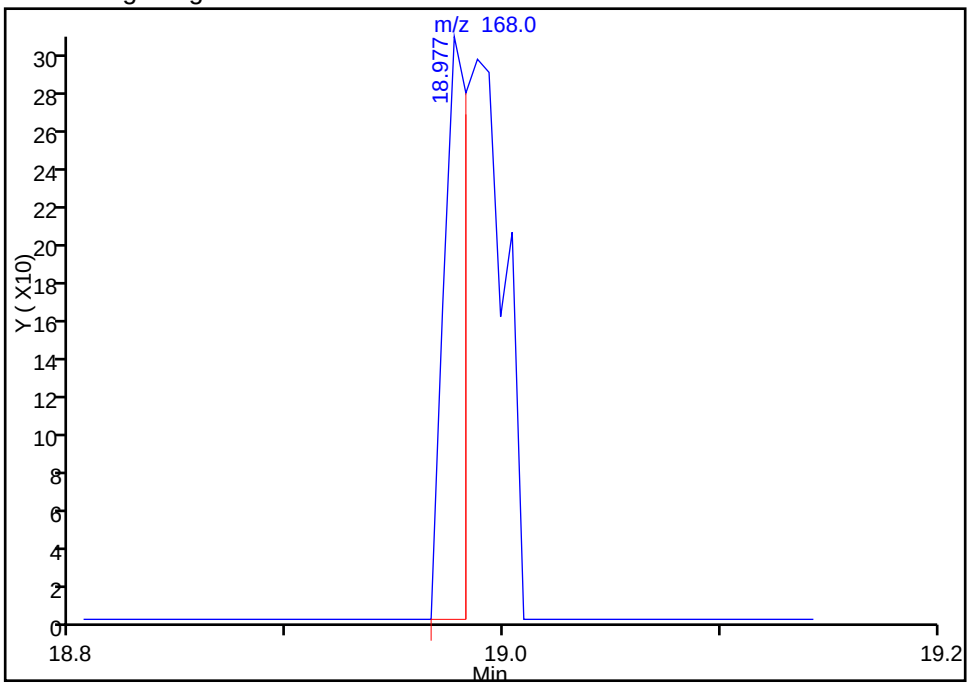
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d				
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

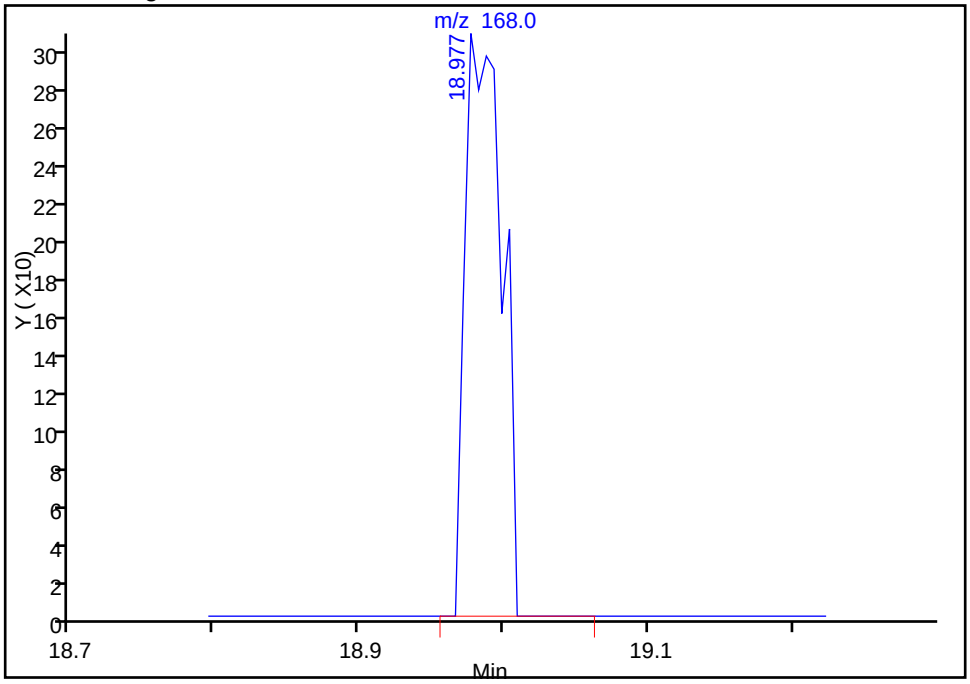
Processing Integration Results

RT: 18.98
Area: 243
Amount: 0.030356
Amount Units: ppb v/v



Manual Integration Results

RT: 18.98
Area: 550
Amount: 0.032826
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:29:46
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

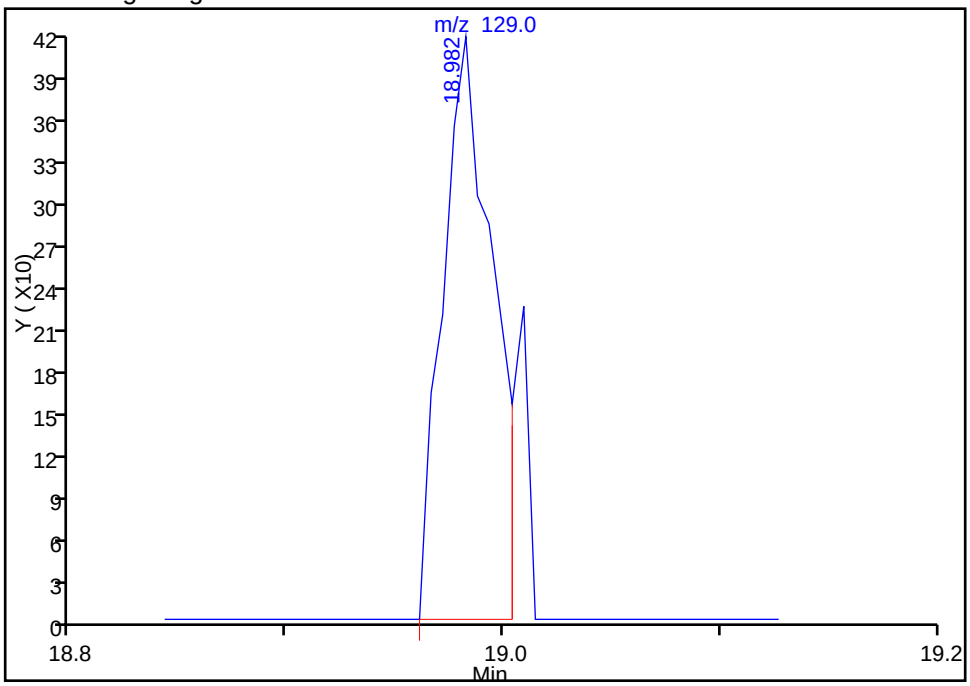
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_014.d				
Injection Date:	30-Sep-2015 21:45:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-15	Lab Sample ID:	200-29972-15		
Client ID:	FR-SS08-092315				
Operator ID:	pad	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	200.000 mL	Dil. Factor:	180.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

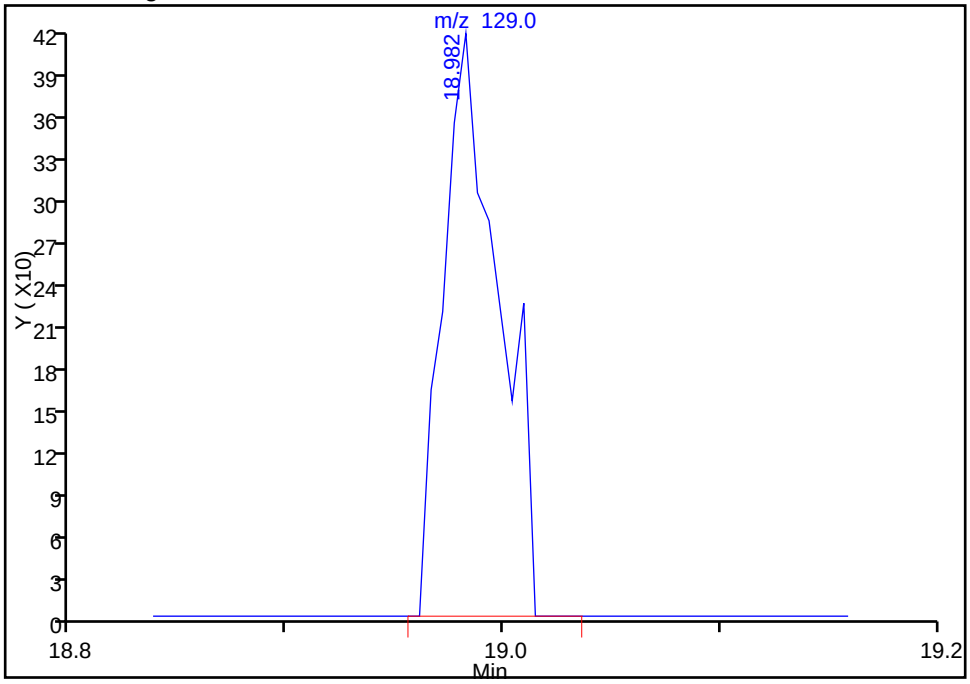
Processing Integration Results

RT: 18.98
Area: 677
Amount: 0.030356
Amount Units: ppb v/v



Manual Integration Results

RT: 18.98
Area: 749
Amount: 0.032826
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:29:46
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 | Lab Sample ID: 200-29972-16

Matrix: Air | Lab File ID: 16024_009.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 17:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.64		0.50	0.080
75-45-6	Freon 22	86.47	0.59		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.093
106-97-8	n-Butane	58.12	5.2		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	*Trichlorofluoromethane*	*137.37*	*58*	*E*	*0.20*	*0.038*
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.68		0.20	0.036
67-64-1	Acetone	58.08	12		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	7.2		5.0	0.98
75-15-0	Carbon disulfide	76.14	0.28	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.33	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.69		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.23		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	1.9		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.49		0.20	0.046
110-82-7	Cyclohexane	84.16	0.19	J	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.093		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.32		0.20	0.039
71-43-2	Benzene	78.11	0.56		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.53		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 | Lab Sample ID: 200-29972-16

Matrix: Air | Lab File ID: 16024_009.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 17:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20		0.20	0.040
79-01-6	Trichloroethene	131.39	0.042		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.13	J	0.50	0.050
108-88-3	Toluene	92.14	1.5		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.054	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.20	J	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.20		0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.72		0.50	0.071
95-47-6	Xylene, o-	106.17	0.29		0.20	0.037
1330-20-7	Xylene (total)	106.17	1.0		0.70	0.037
100-42-5	Styrene	104.15	0.14	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.039	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.045	J	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.067	J	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.071	J	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.23		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.085	J	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.074	J	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 Lab Sample ID: 200-29972-16

Matrix: Air Lab File ID: 16024_009.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 17:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.24	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 | Lab Sample ID: 200-29972-16

Matrix: Air | Lab File ID: 16024_009.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 17:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.2		2.5	0.40
75-45-6	Freon 22	86.47	2.1		1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.2		1.0	0.19
106-97-8	n-Butane	58.12	12		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	*Trichlorofluoromethane*	*137.37*	*320*	*E*	*1.1*	*0.21*
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	2.7		0.79	0.14
67-64-1	Acetone	58.08	29		12	2.0
67-63-0	Isopropyl alcohol	60.10	18		12	2.4
75-15-0	Carbon disulfide	76.14	0.89	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.2	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	2.4		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.91		0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	5.7		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	2.6		1.1	0.25
110-82-7	Cyclohexane	84.16	0.66	J	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.59		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.5		0.93	0.18
71-43-2	Benzene	78.11	1.8		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	2.1		0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 Lab Sample ID: 200-29972-16

Matrix: Air Lab File ID: 16024_009.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 17:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.81		0.82	0.16
79-01-6	Trichloroethene	131.39	0.22		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	0.54	J	2.0	0.20
108-88-3	Toluene	92.14	5.6		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.37	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.84	J	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.85		0.87	0.14
179601-23-1	m,p-Xylene	106.17	3.1		2.2	0.31
95-47-6	Xylene, o-	106.17	1.2		0.87	0.16
1330-20-7	Xylene (total)	106.17	4.4		3.0	0.16
100-42-5	Styrene	104.15	0.60	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.19	J	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.22	J	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.33	J	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.35	J	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1		0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	0.47	J	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	0.44	J	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 Lab Sample ID: 200-29972-16

Matrix: Air Lab File ID: 16024_009.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 17:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	1.2	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d
Lims ID: 200-29972-A-16 Lab Sample ID: 200-29972-16
Client ID: FR-IA08-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 17:43:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016024-009
Misc. Info.: 29972-16
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:16:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.415	4.431	-0.016	98	33473	0.6437	
3 Chlorodifluoromethane	51	4.485	4.501	-0.016	95	12272	0.5855	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50	5.004	5.009	-0.005	98	5683	0.5595	
6 Butane	43	5.282	5.292	-0.010	95	76841	5.19	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64	6.678	6.678	0.000	1	413	0.0522	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.299	7.299	0.000	98	3410351	57.8	E
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	97	11584	0.6837	
22 Acetone	43	8.946	8.941	0.005	97	220176	12.0	
23 Carbon disulfide	76	9.160	9.171	-0.011	95	11598	0.2843	
24 Isopropyl alcohol	45	9.219	9.219	0.000	100	105031	7.19	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.936	9.931	0.005	81	4474	0.3329	
28 2-Methyl-2-propanol	59	10.118	10.113	0.005	91	3778	0.1463	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57	10.862	10.856	0.006	89	12303	0.6902	
34 1,1-Dichloroethane	63	11.434	11.429	0.005	96	5936	0.2255	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.654	0.005	98	16297	1.92	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	73	163745	10.0	
42 Chloroform	83	13.215	13.215	0.000	87	2136	0.0529	
43 Cyclohexane	84	13.510	13.510	0.000	90	4228	0.1912	M
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	96	22991	0.4852	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.788	13.782	0.006	79	4864	0.0933	
46 Isooctane	57	14.184	14.184	0.000	95	18979	0.3169	
47 Benzene	78	14.259	14.253	0.006	94	29037	0.5619	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	98	13120	0.5289	
49 n-Heptane	43	14.526	14.531	-0.005	72	3668	0.1966	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	763467	10.0	
53 Trichloroethene	95	15.478	15.478	0.000	64	1107	0.0417	M
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88	16.190	16.190	0.000	90	3061	0.3380	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.618	17.624	-0.006	91	3607	0.1328	
65 Toluene	92	17.955	17.955	0.000	93	63689	1.49	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.865				ND	
68 Tetrachloroethene	166	18.988	18.988	0.000	94	2802	0.0544	M
69 2-Hexanone	43	19.266	19.261	0.005	95	5847	0.2042	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		1.01	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	740231	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	70	2973	0.0431	
76 Ethylbenzene	91	20.898	20.898	0.000	97	18787	0.1962	
78 m-Xylene & p-Xylene	106	21.101	21.106	-0.005	0	27974	0.7231	
79 o-Xylene	106	21.796	21.796	0.000	97	10874	0.2851	
80 Styrene	104	21.834	21.839	-0.005	92	8368	0.1400	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.347	0.000	93	4548	0.0389	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.979	22.973	0.006	99	6301	0.0448	
88 4-Ethyltoluene	105	23.139	23.139	0.000	96	8644	0.0669	
89 2-Chlorotoluene	91		23.177				ND	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	7981	0.0715	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	24976	0.2257	
94 sec-Butylbenzene	105	24.059	24.059	0.000	95	3591	0.0232	
95 4-Isopropyltoluene	119	24.263	24.262	0.001	97	11652	0.0853	
96 1,3-Dichlorobenzene	146	24.327	24.332	-0.005	85	2347	0.0256	M
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	96	6668	0.0737	
98 Benzyl chloride	91	24.701	24.707	-0.006	93	2090	0.0218	
100 n-Butylbenzene	91	24.926	24.921	0.006	94	4538	0.0389	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	94	2118	0.0240	
103 1,2,4-Trichlorobenzene	180	28.130	28.130	0.000	92	4269	0.0578	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	94	4766	0.0681	
105 Naphthalene	128	28.767	28.767	0.000	99	32918	0.2352	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

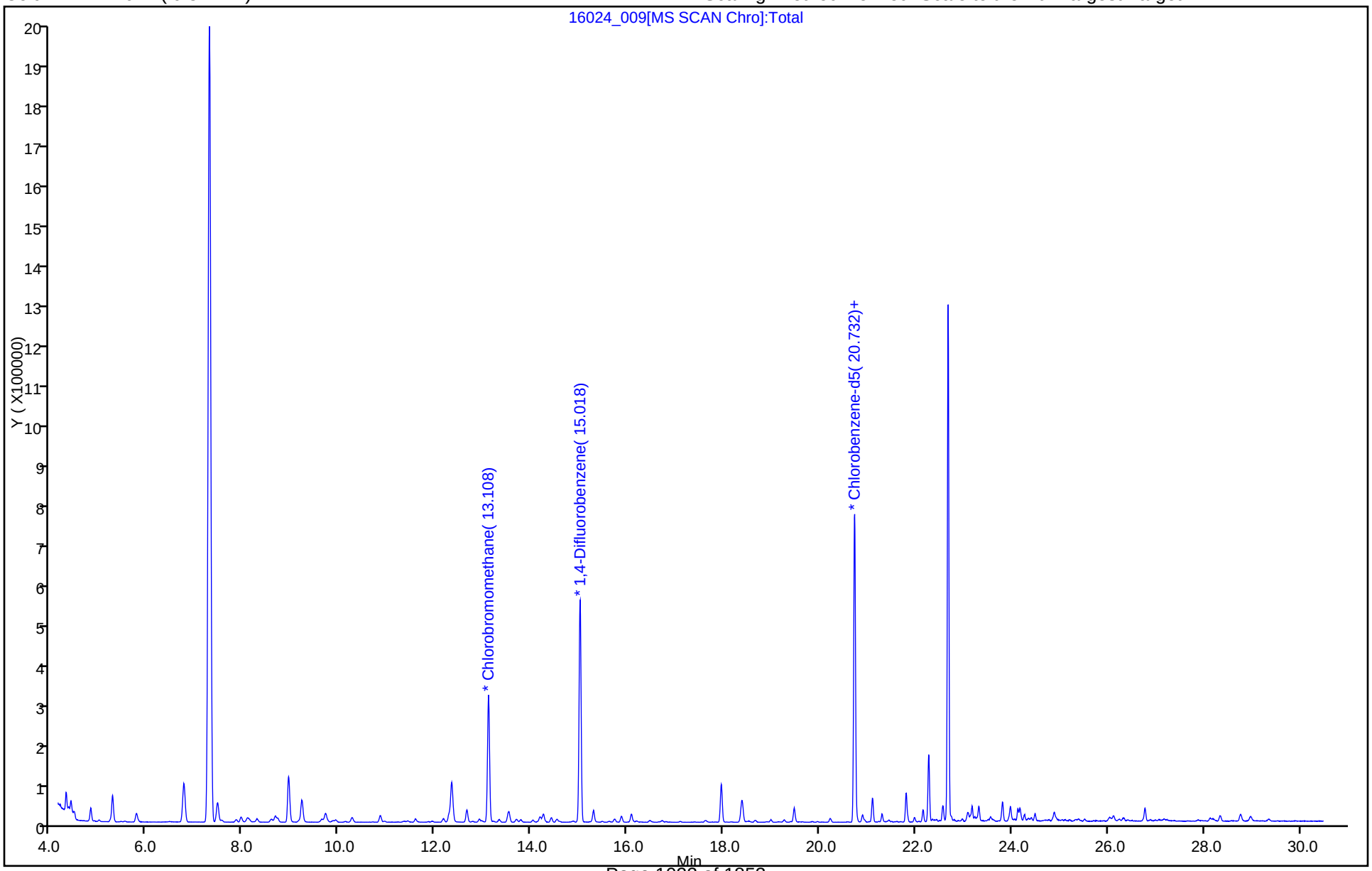
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16	Worklist Smp#:	9
Client ID:	FR-IA08-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



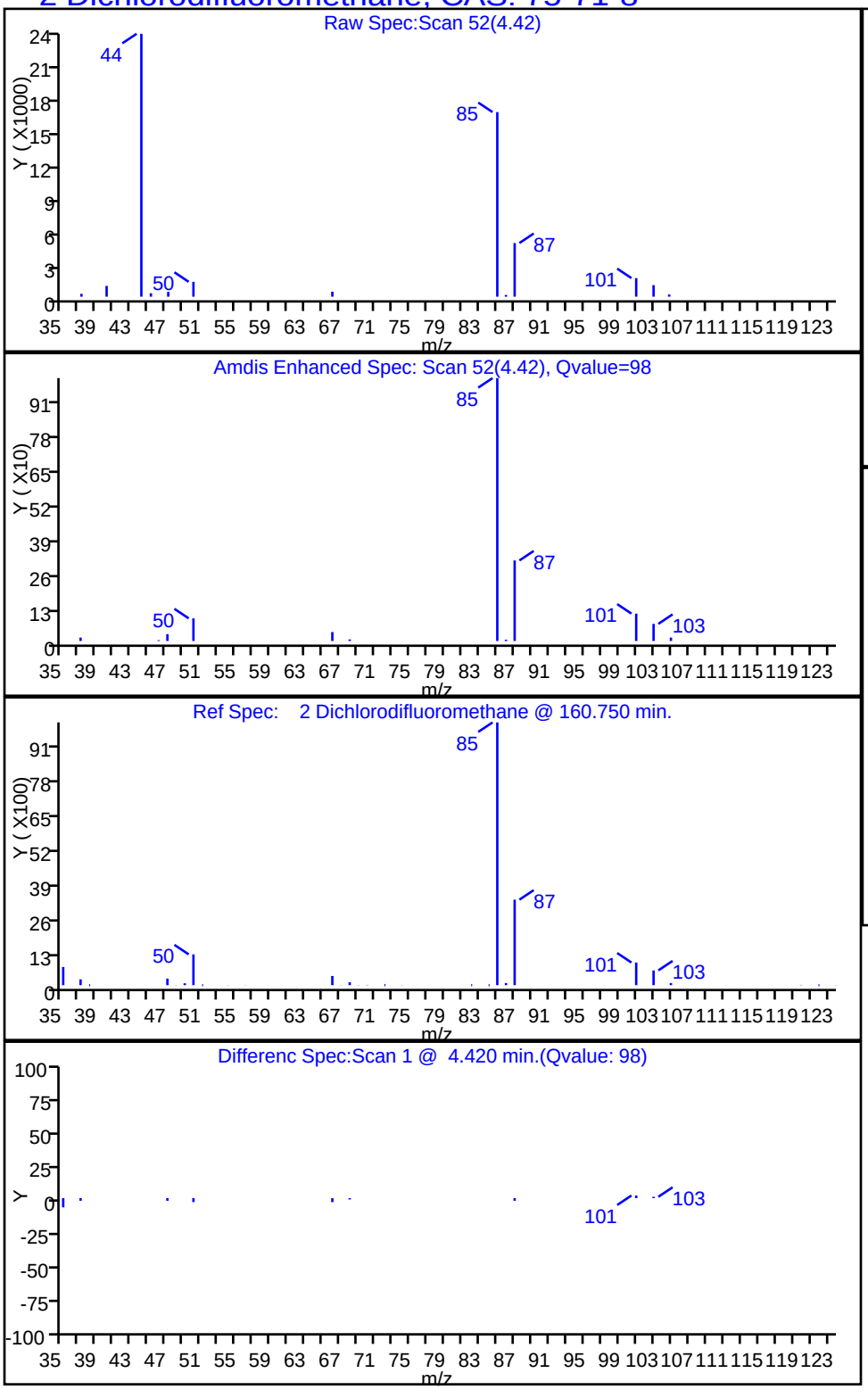
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

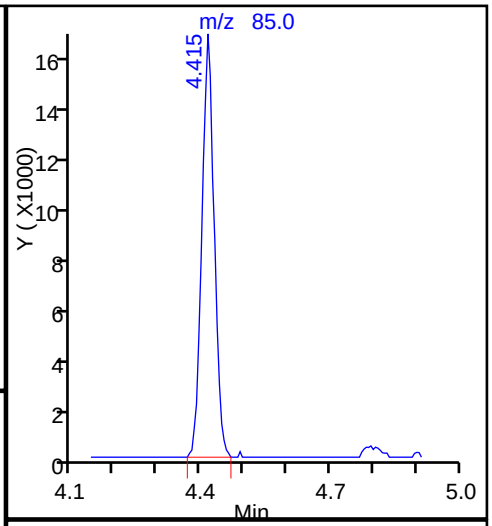
TestAmerica Burlington

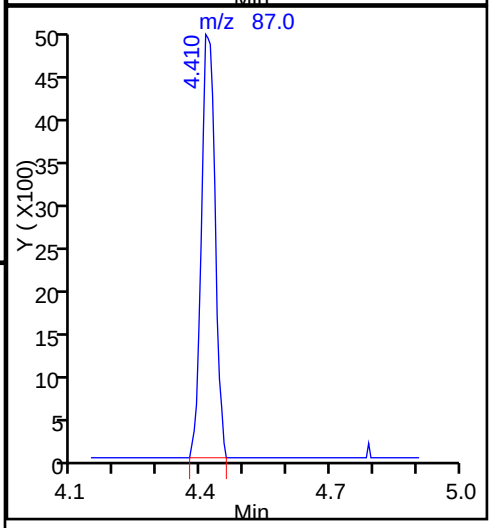
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8





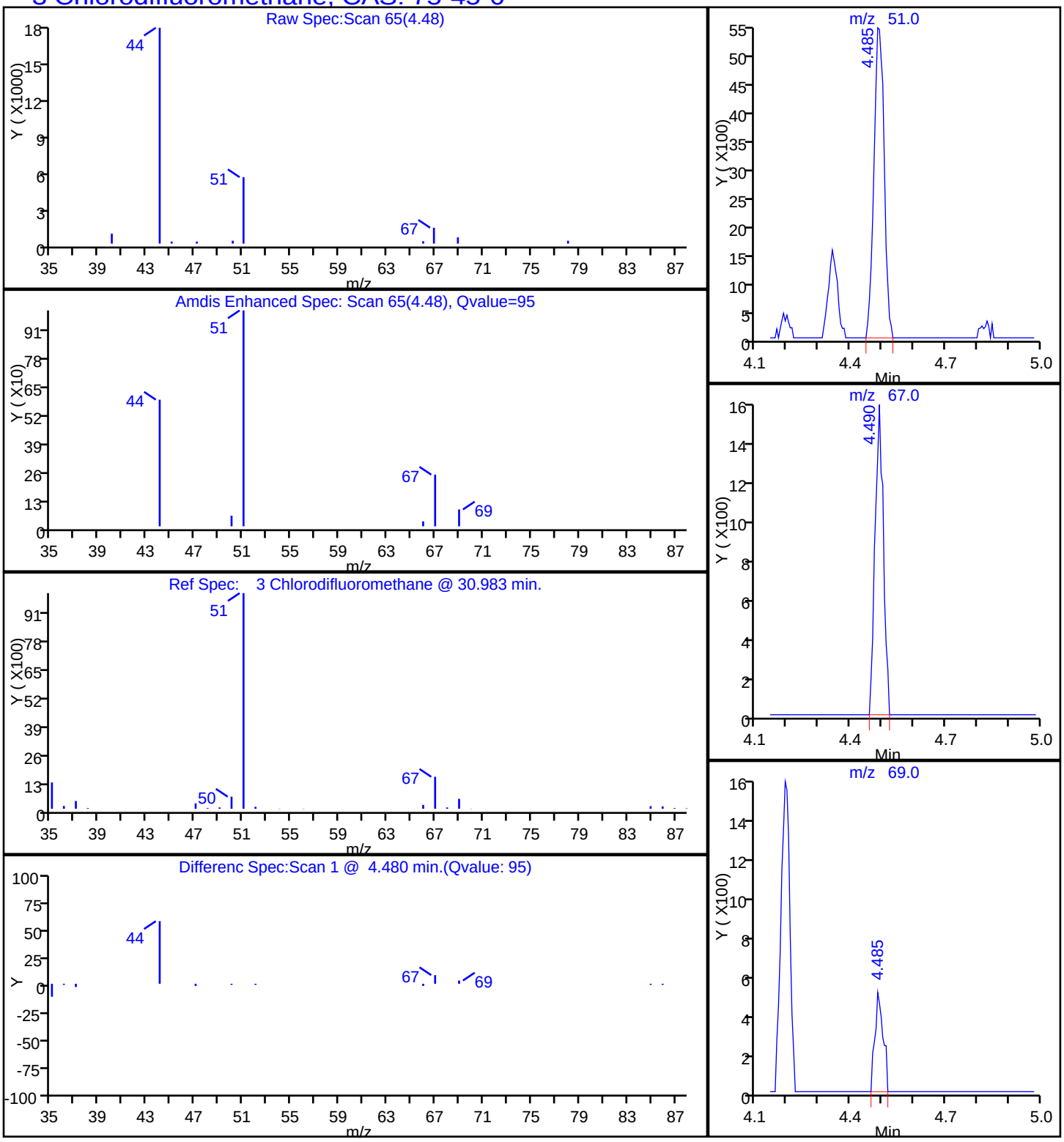


Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6



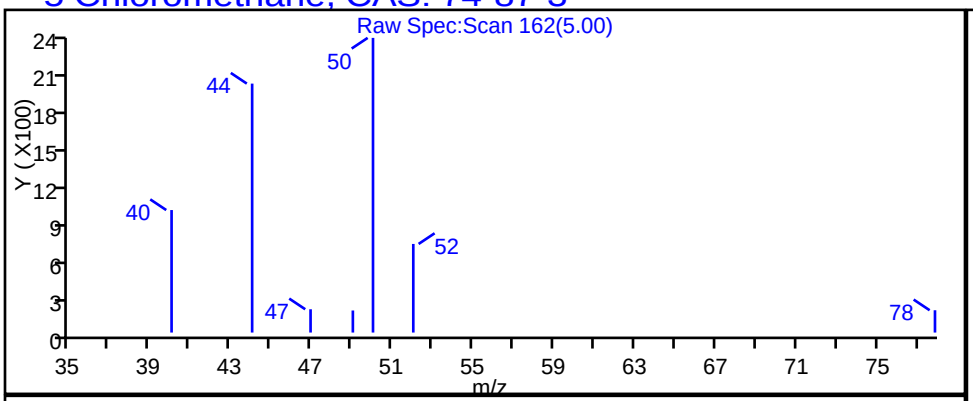
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

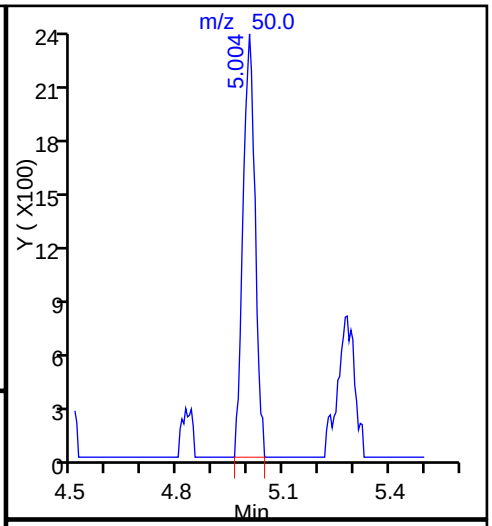
TestAmerica Burlington

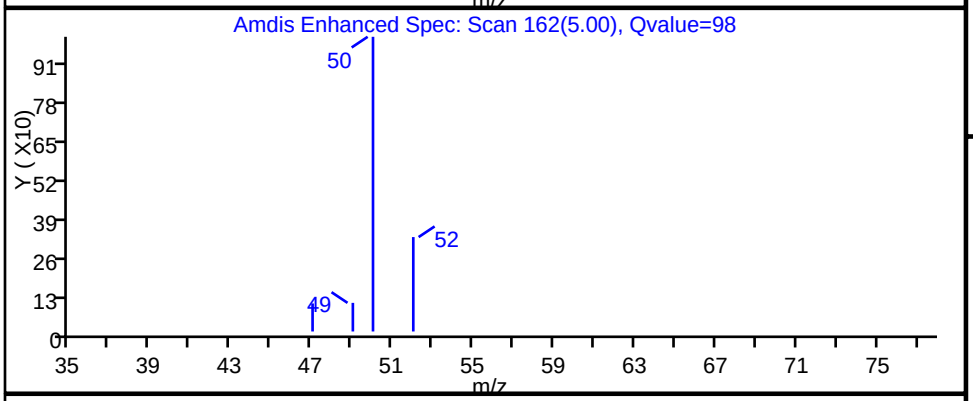
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

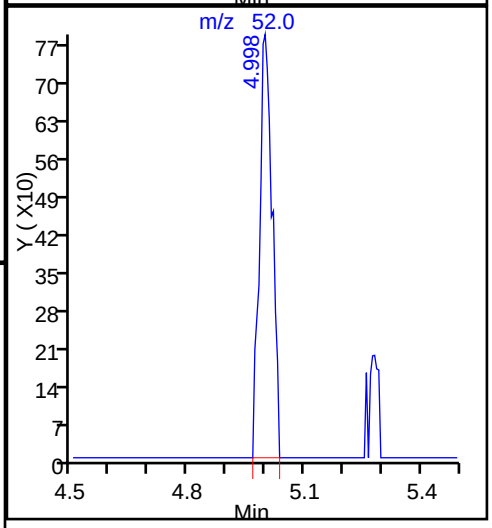
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

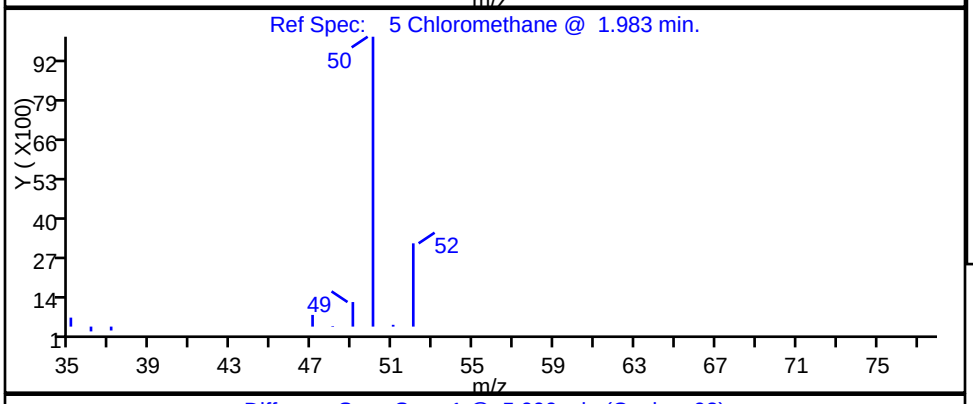
5 Chloromethane, CAS: 74-87-3

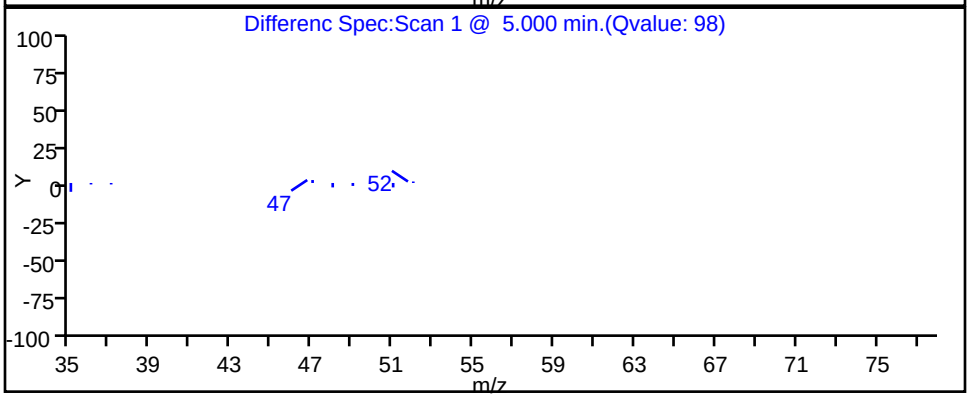












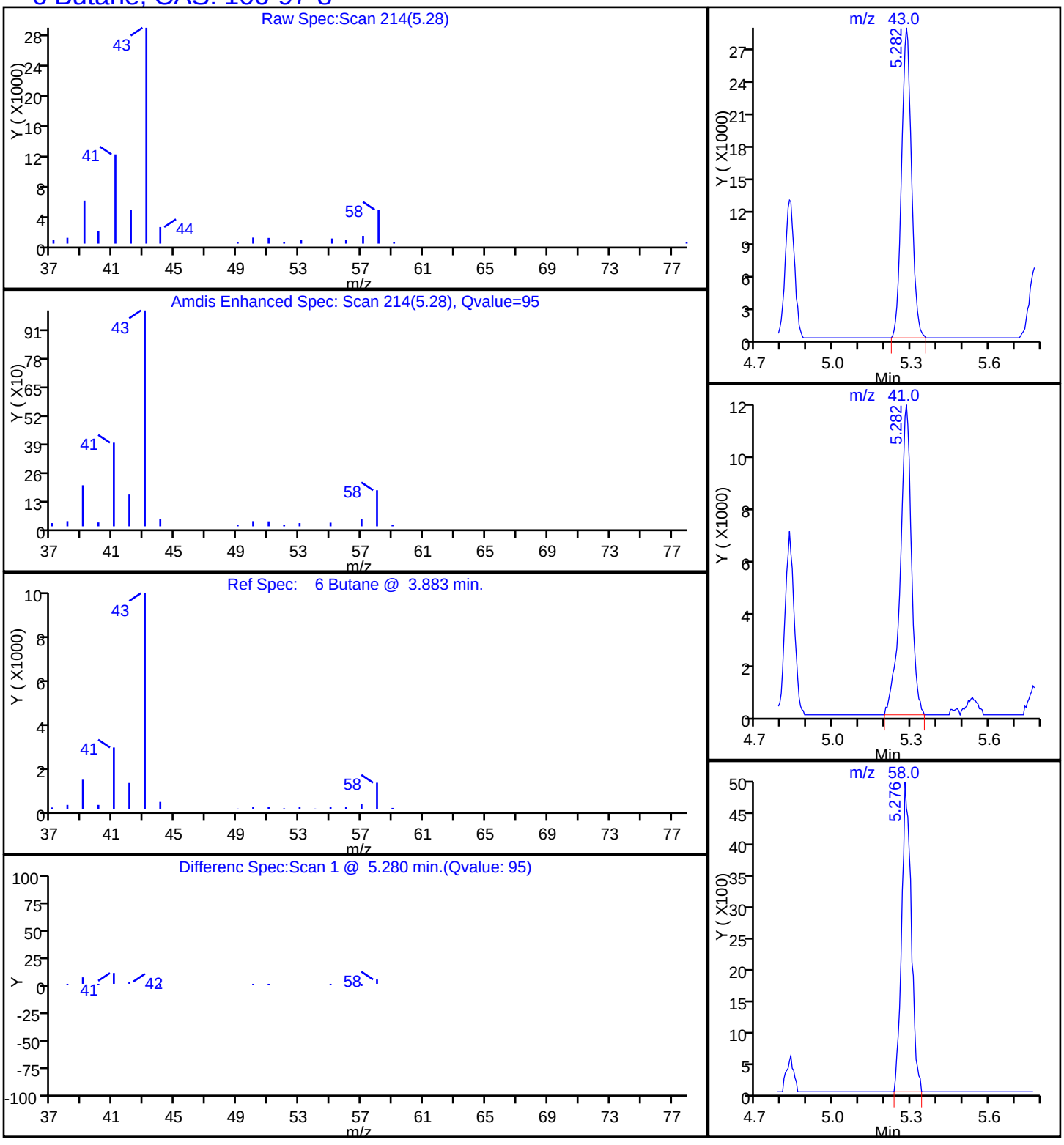
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

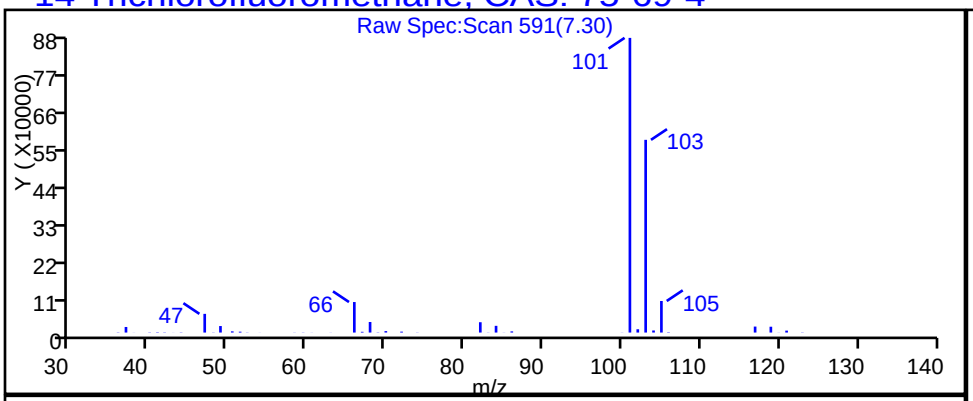


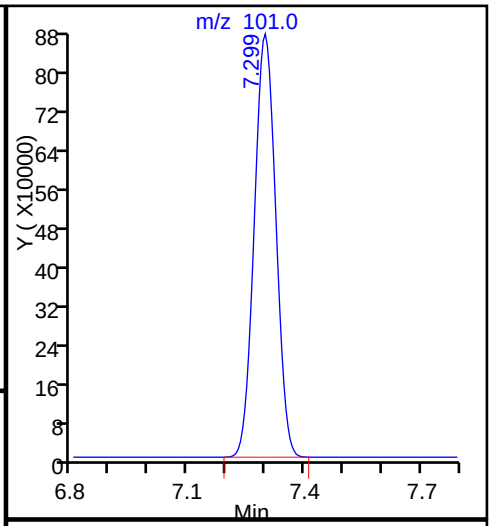
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

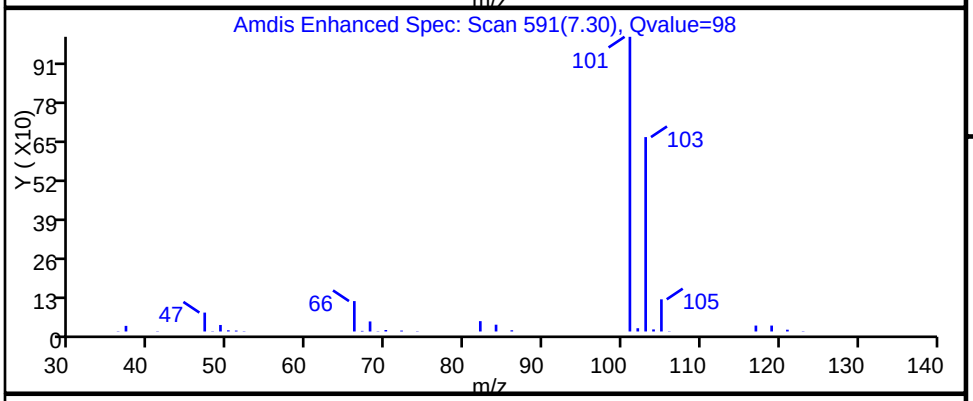
TestAmerica Burlington

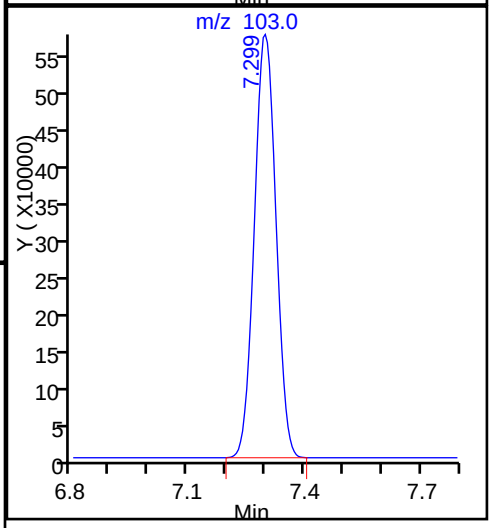
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

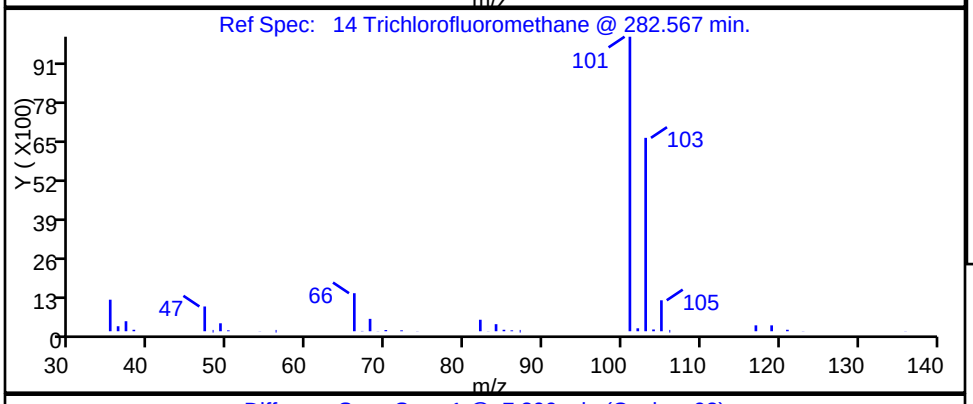
14 Trichlorofluoromethane, CAS: 75-69-4

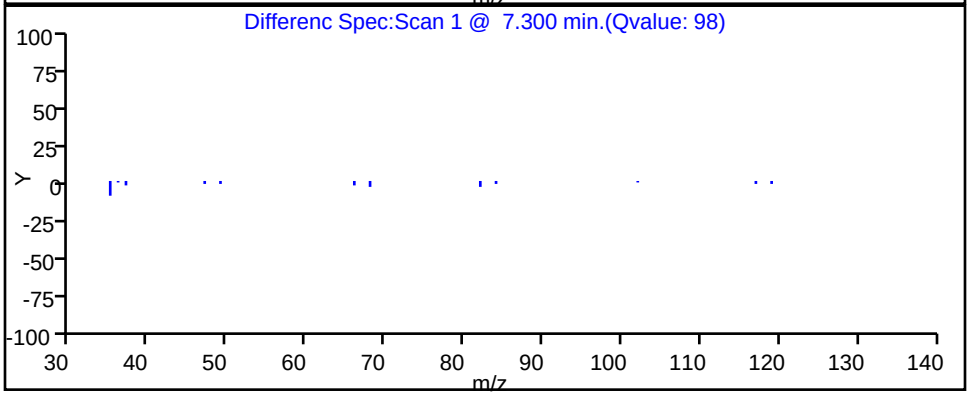












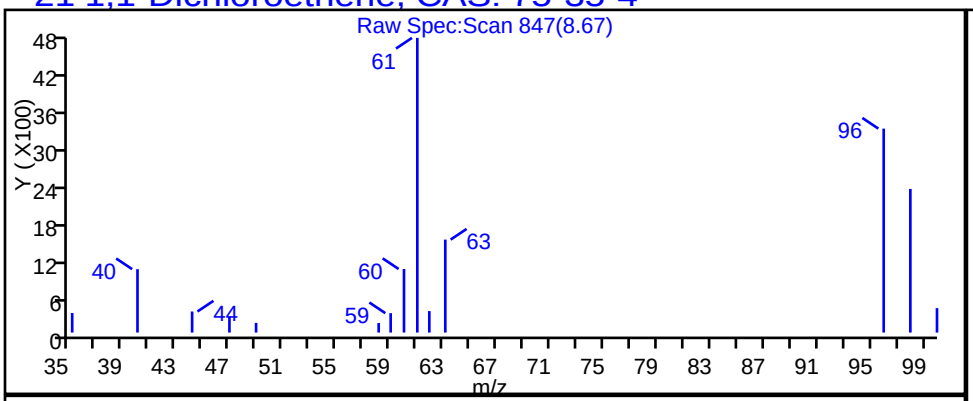
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

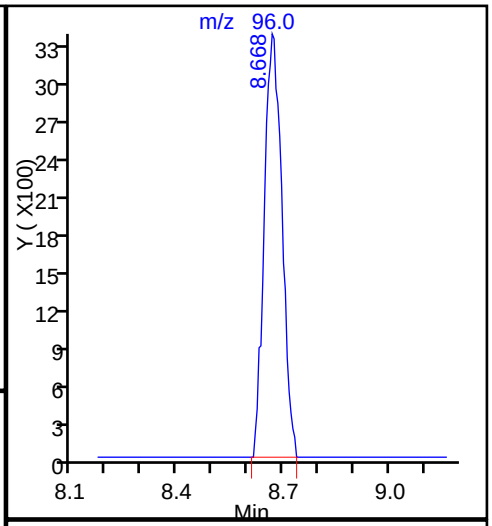
TestAmerica Burlington

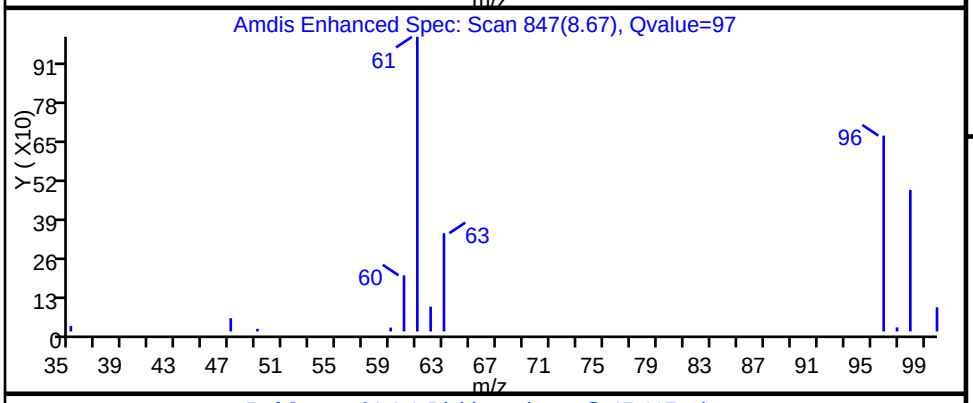
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

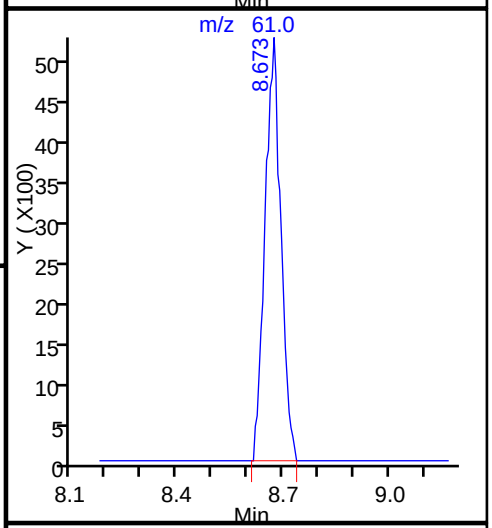
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

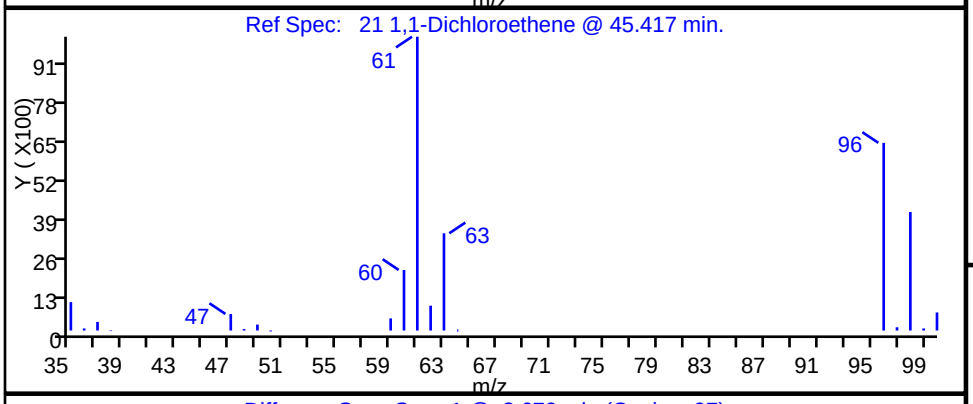
21 1,1-Dichloroethene, CAS: 75-35-4

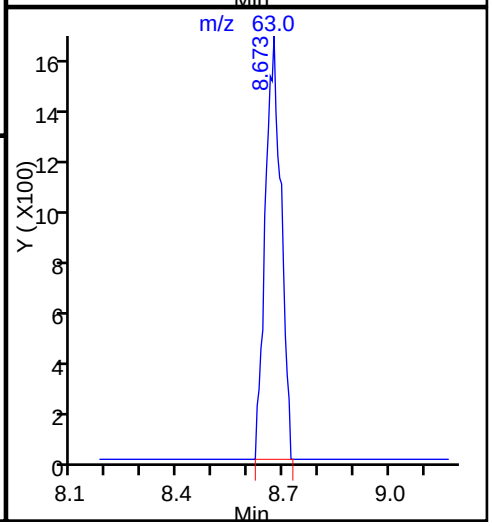


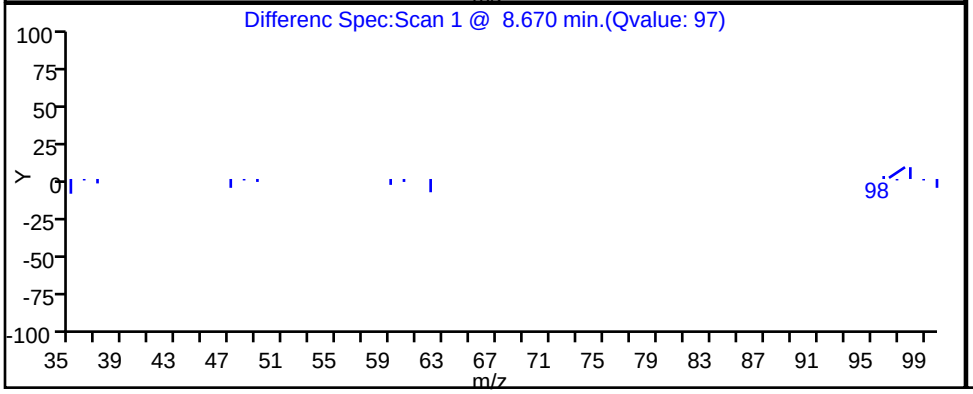










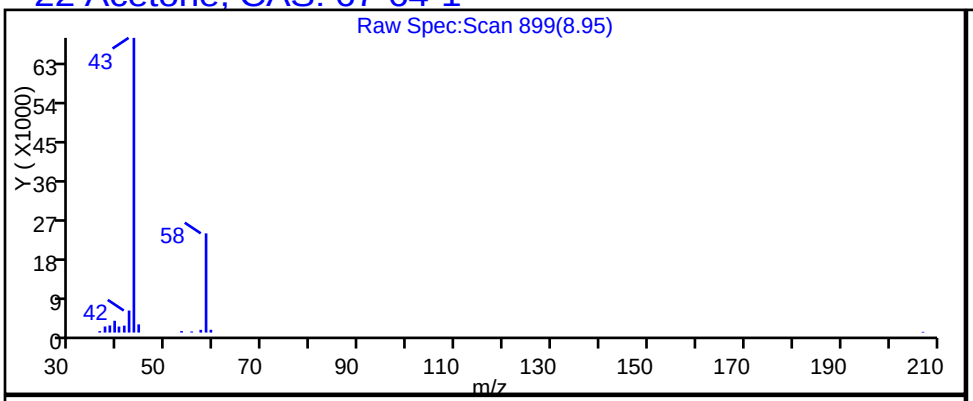


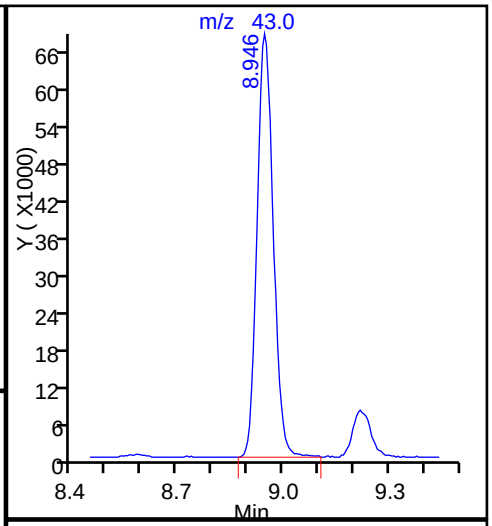
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

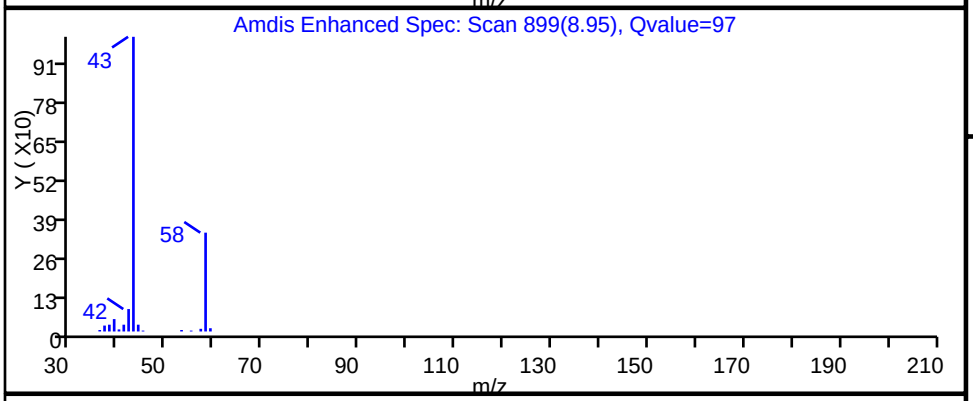
TestAmerica Burlington

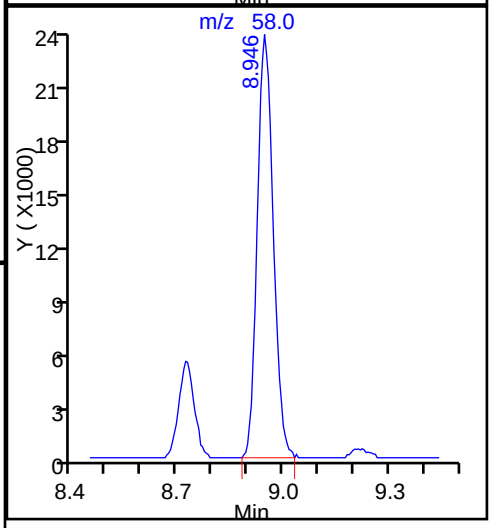
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

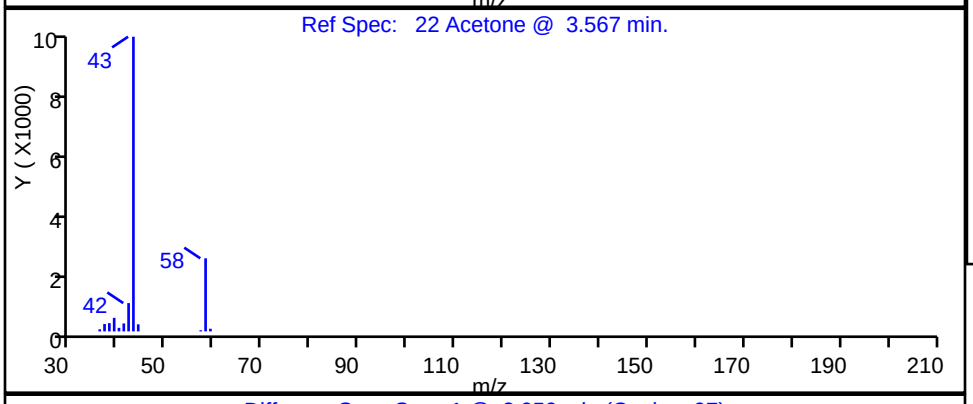
22 Acetone, CAS: 67-64-1

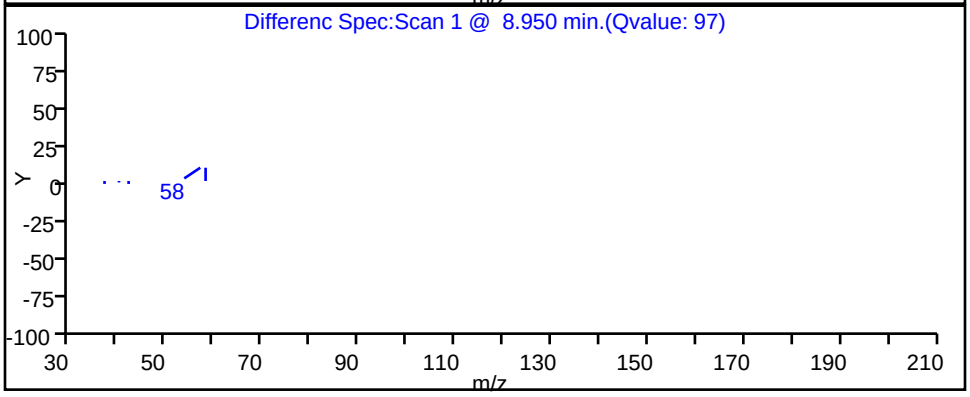










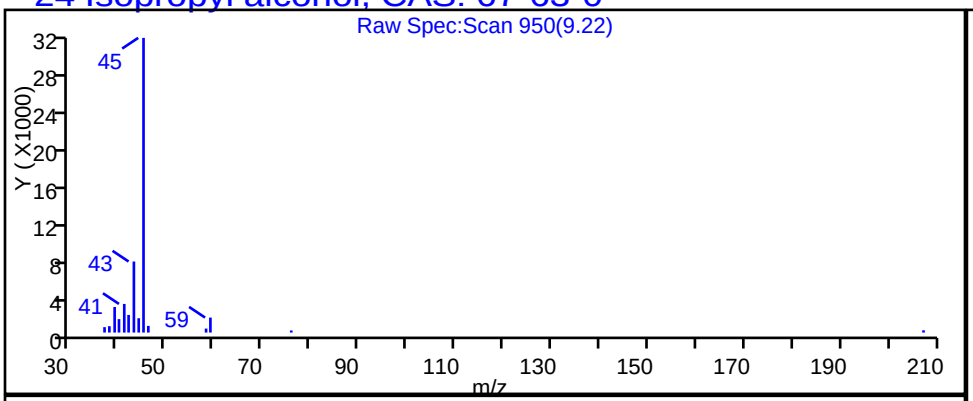


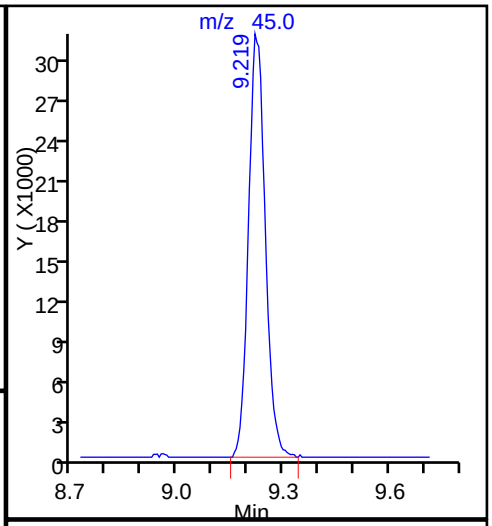
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

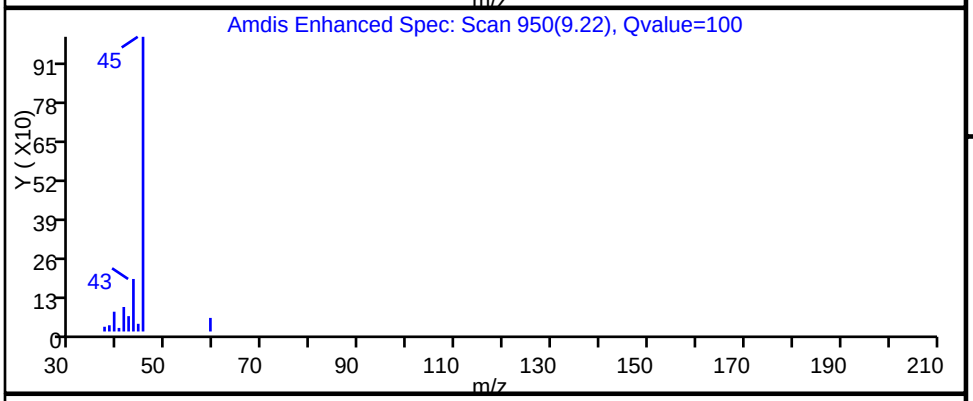
TestAmerica Burlington

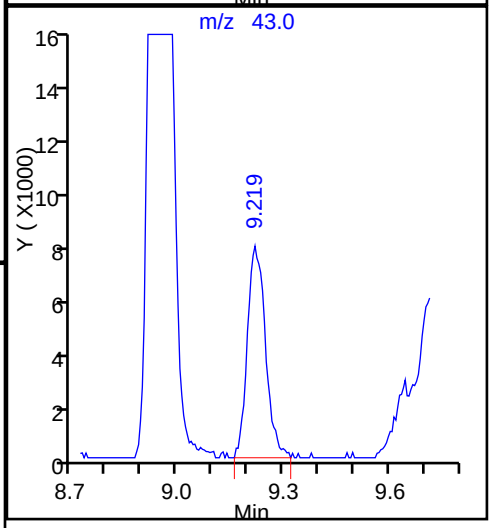
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

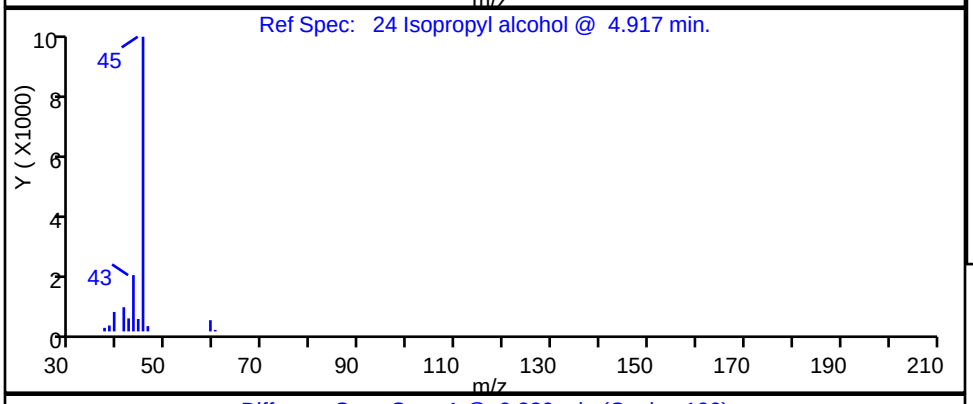
24 Isopropyl alcohol, CAS: 67-63-0

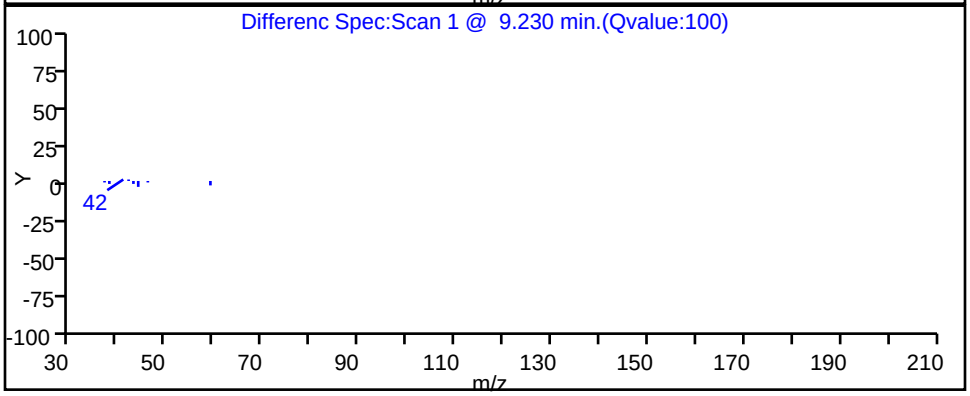












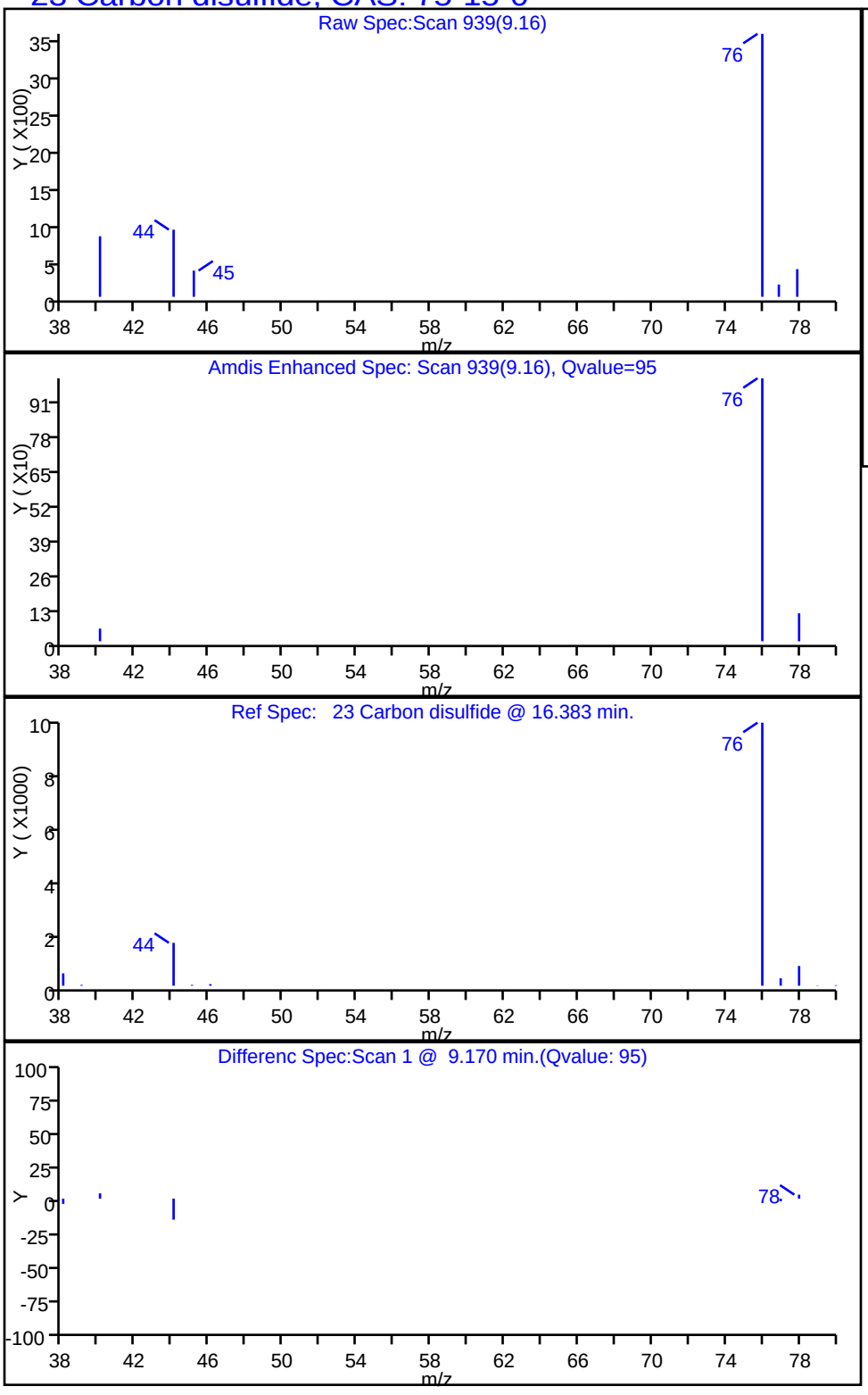
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

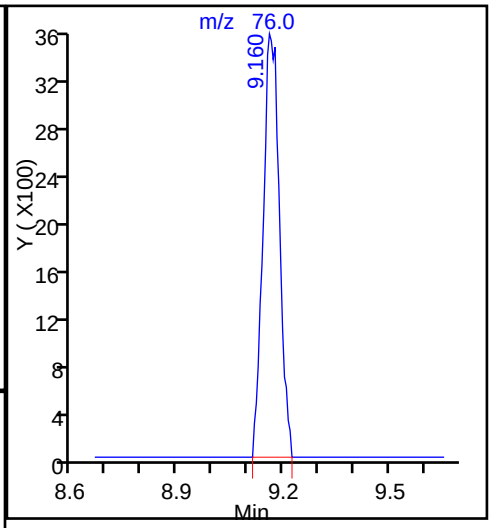
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





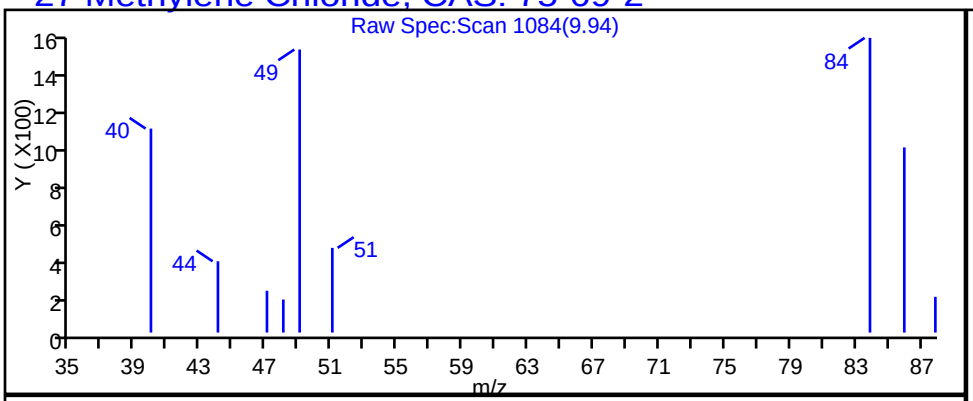
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

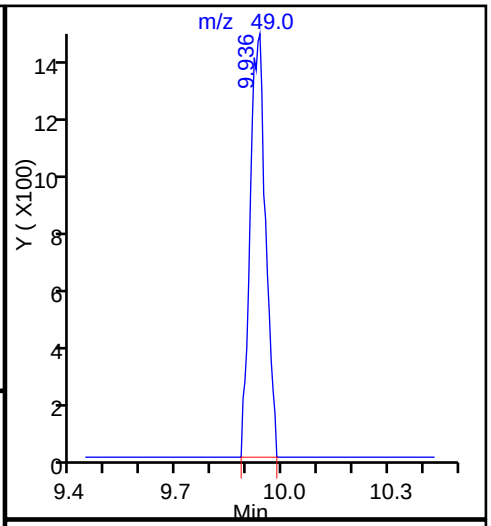
TestAmerica Burlington

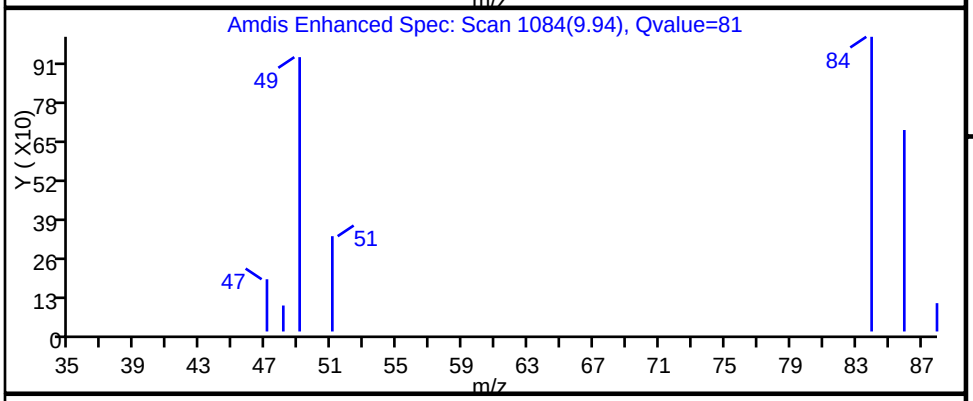
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

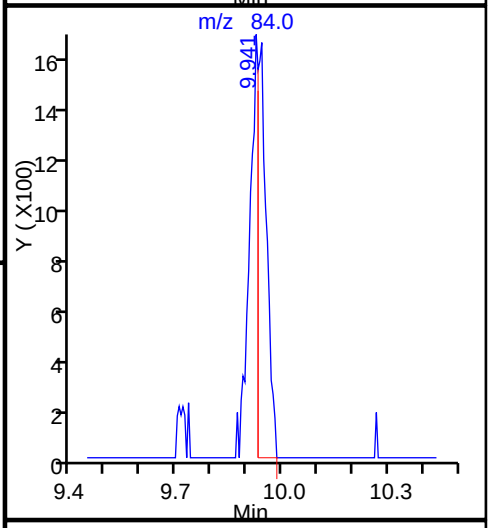
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

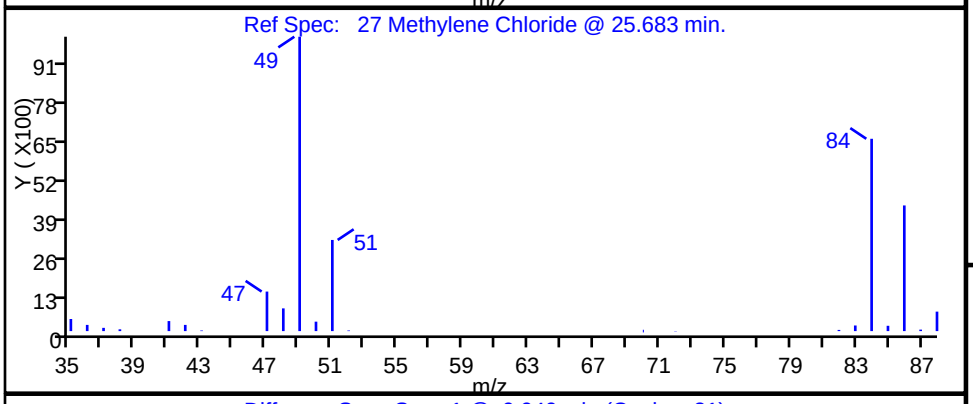
27 Methylene Chloride, CAS: 75-09-2

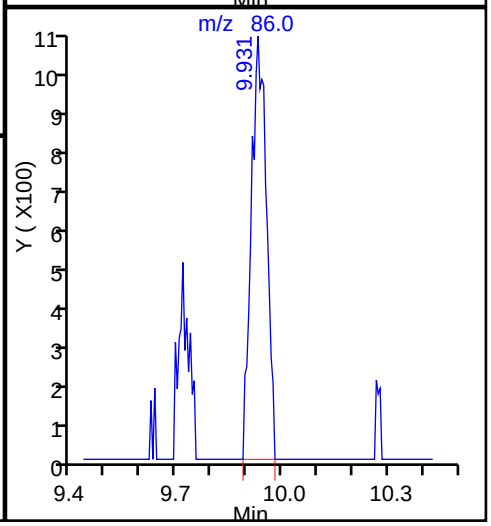


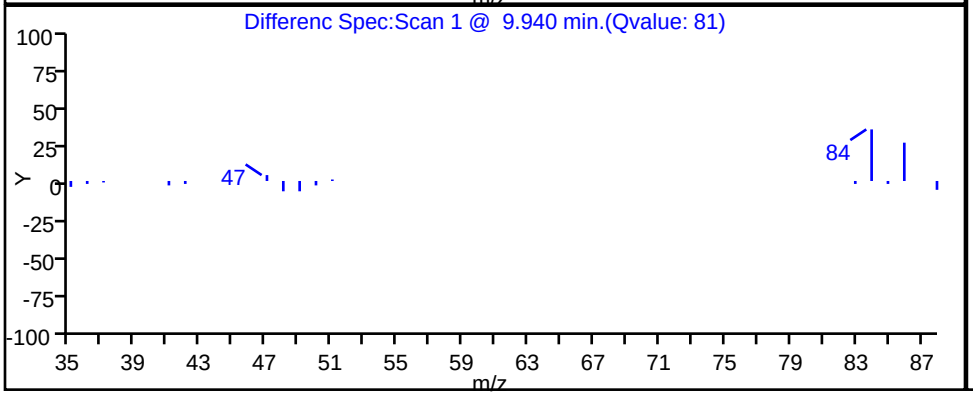










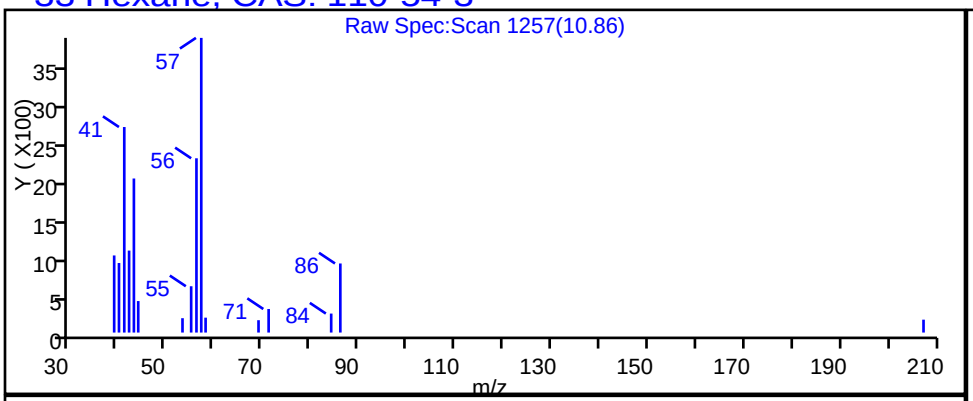


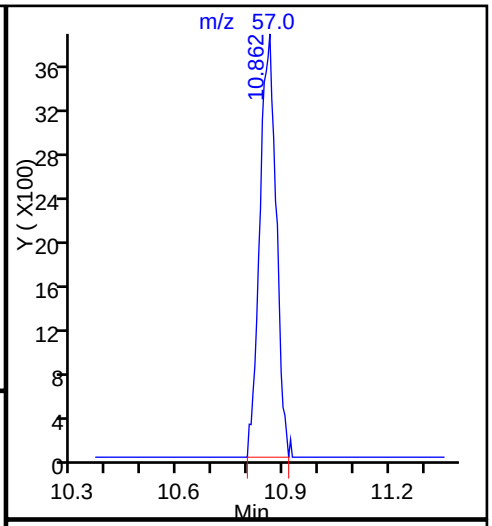
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

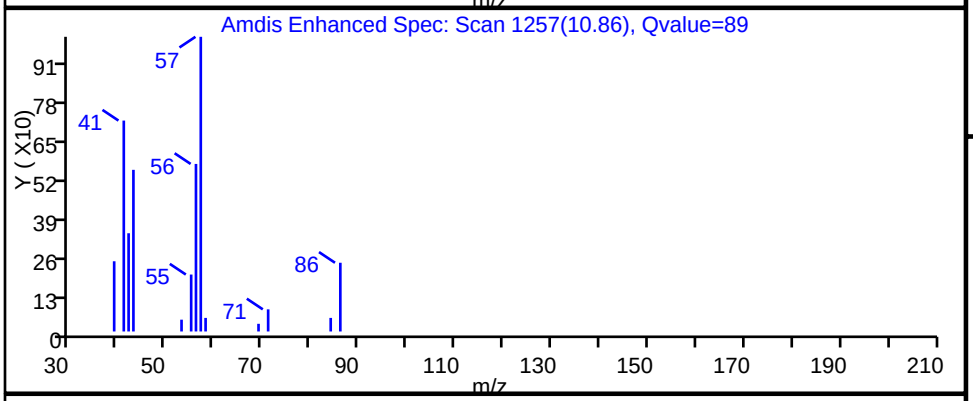
TestAmerica Burlington

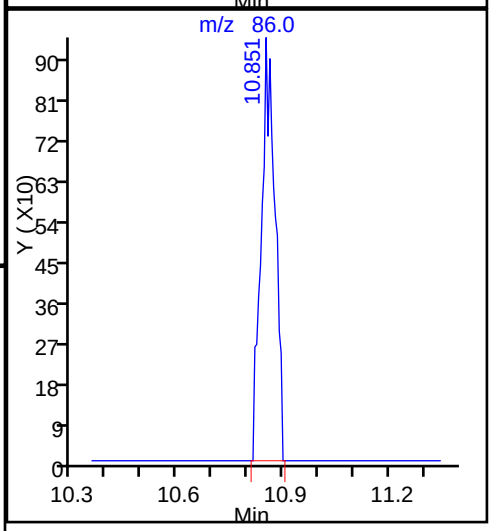
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

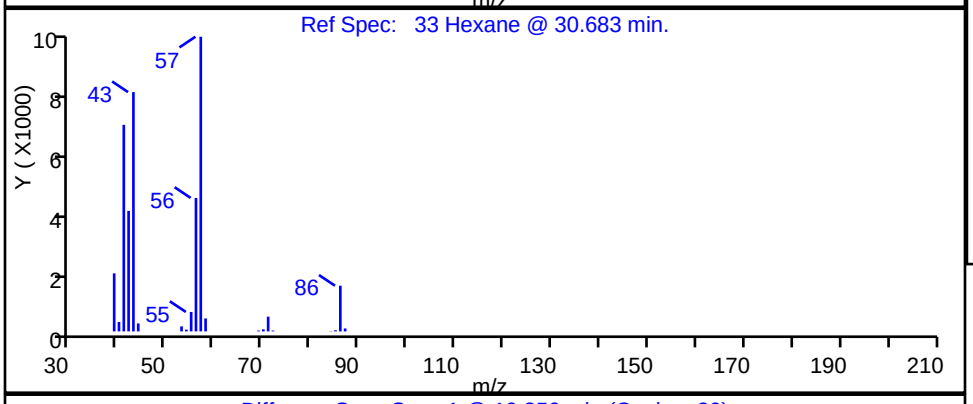
33 Hexane, CAS: 110-54-3

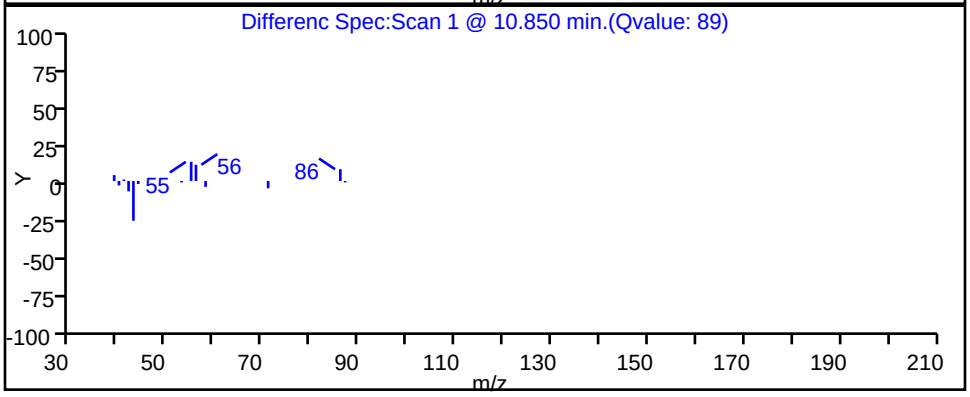












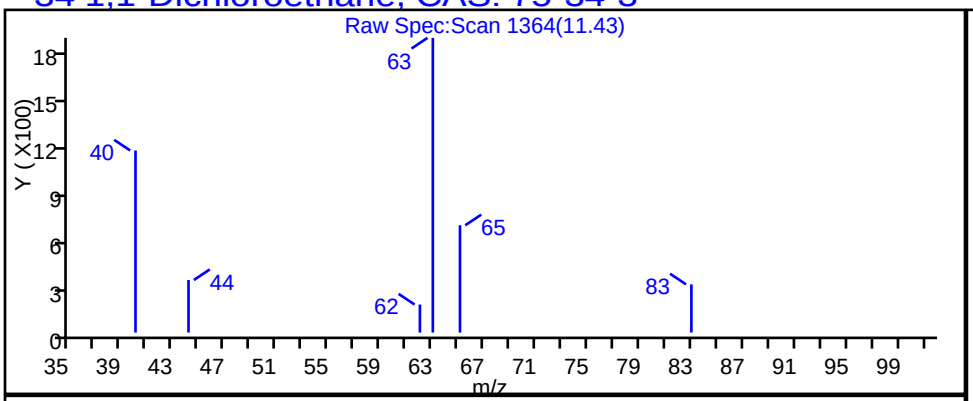
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

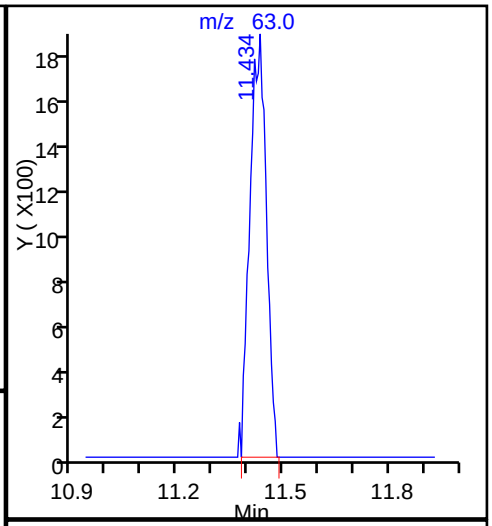
TestAmerica Burlington

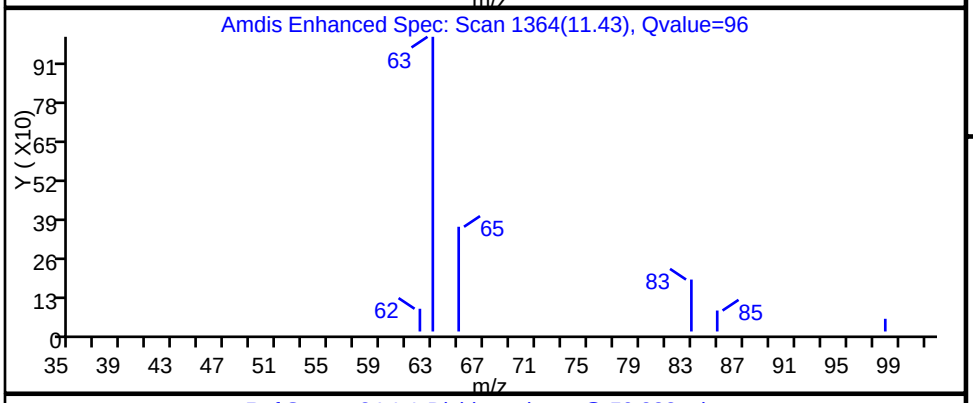
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

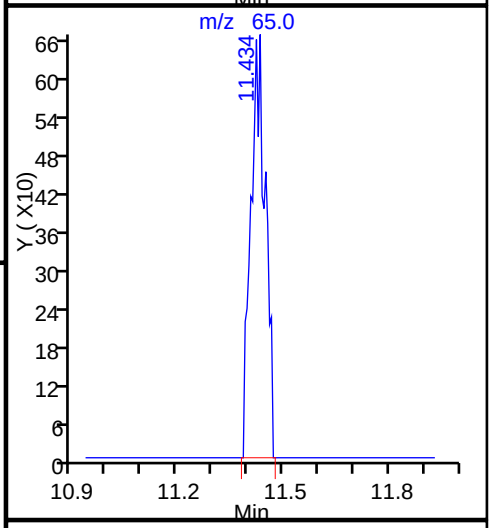
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

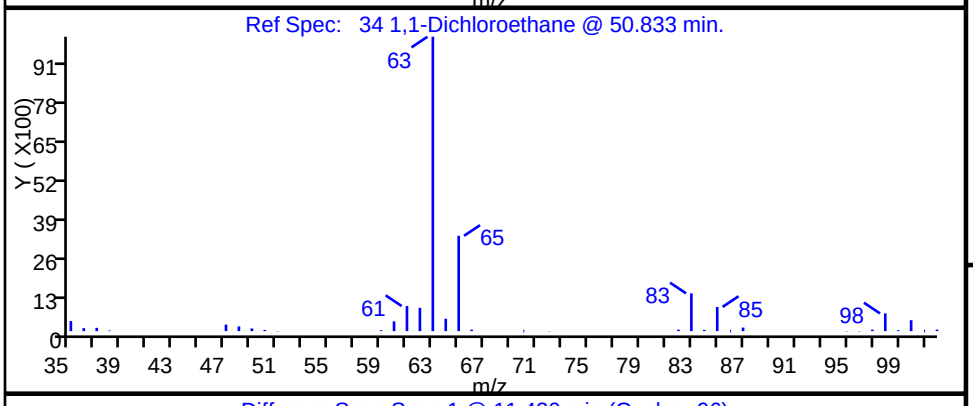
34 1,1-Dichloroethane, CAS: 75-34-3

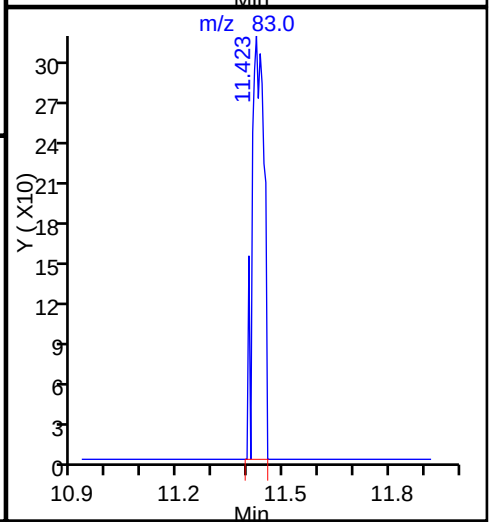


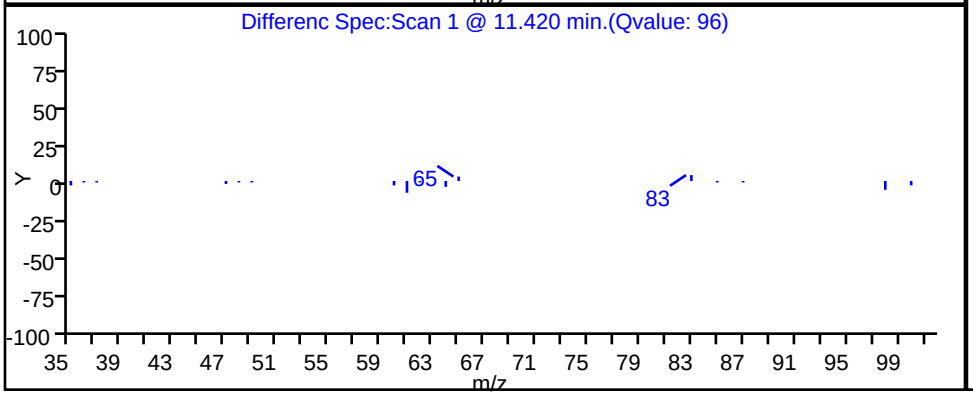












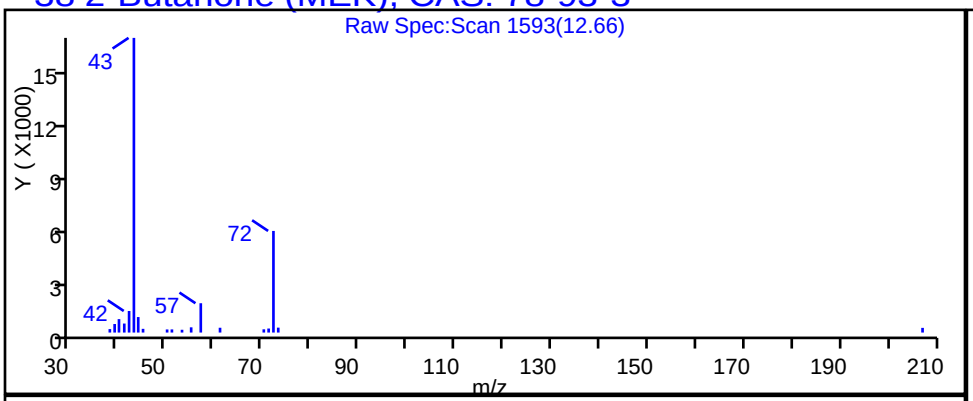
Report Date: 01-Oct-2015 12:53:27 Chrom Revision: 2.2 23-Jul-2015 08:26:08

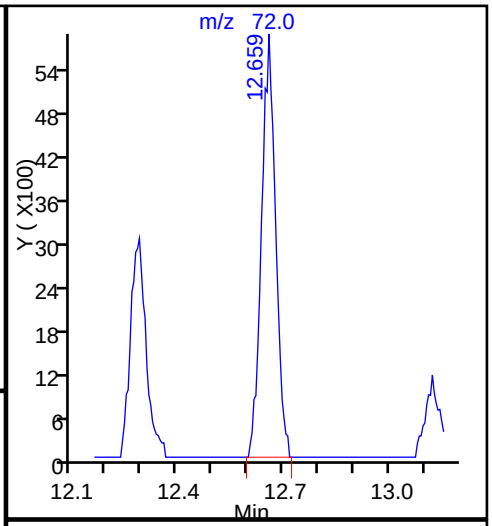
TestAmerica Burlington

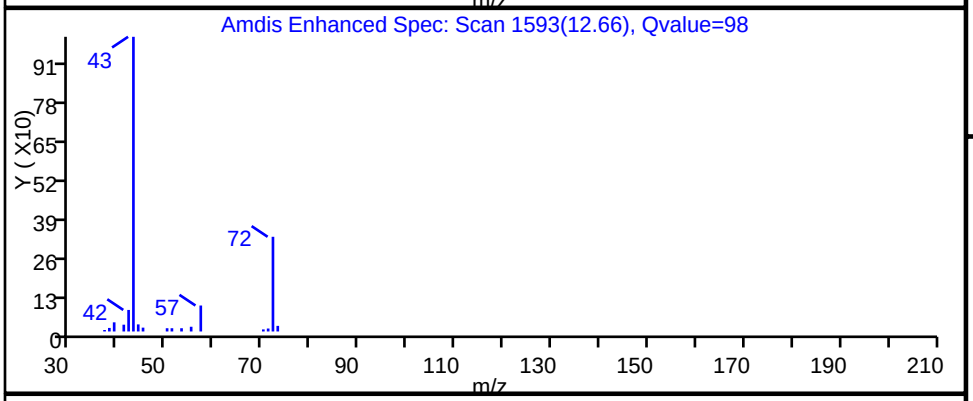
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

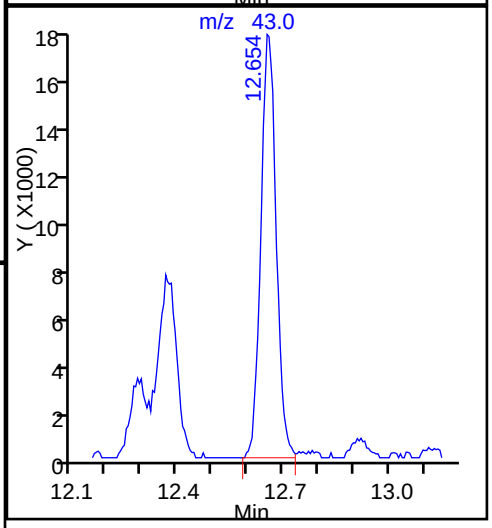
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

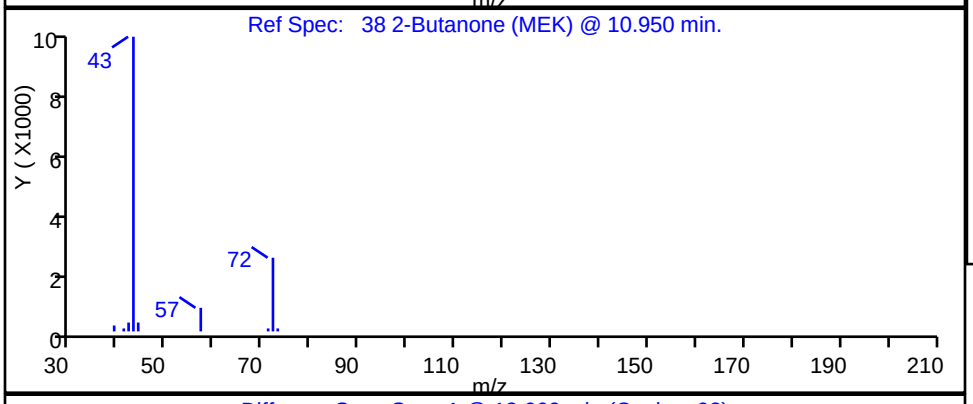
38 2-Butanone (MEK), CAS: 78-93-3

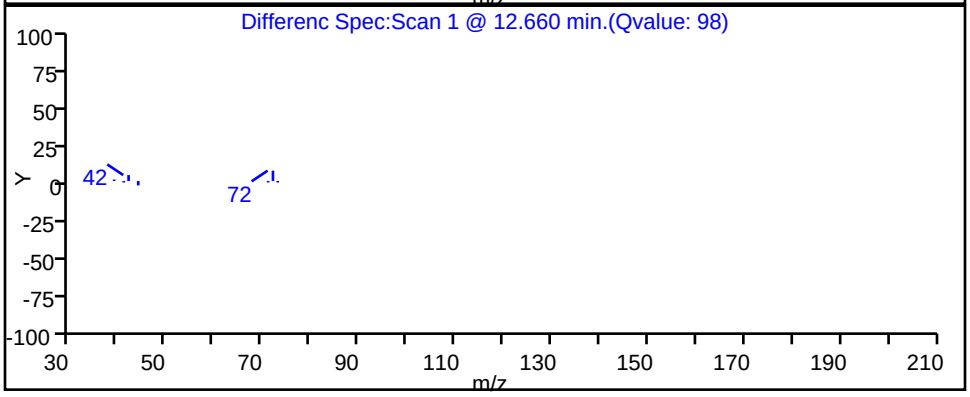












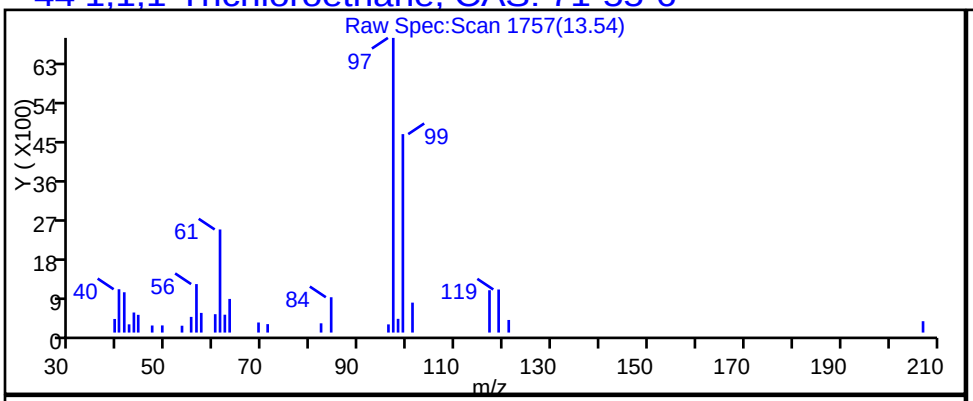
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

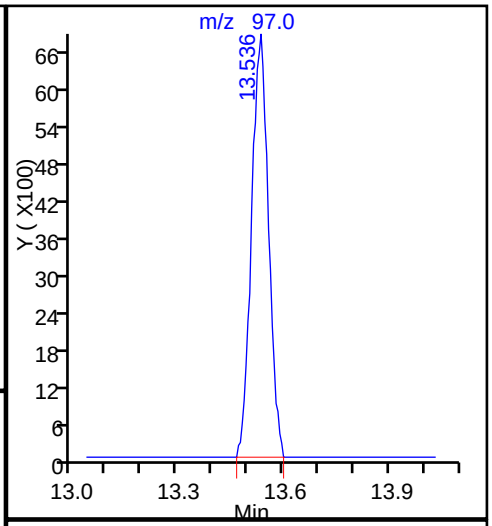
TestAmerica Burlington

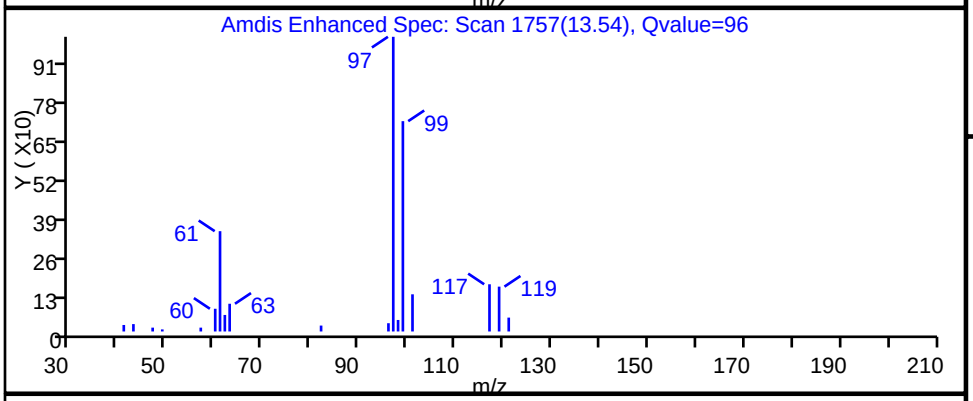
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

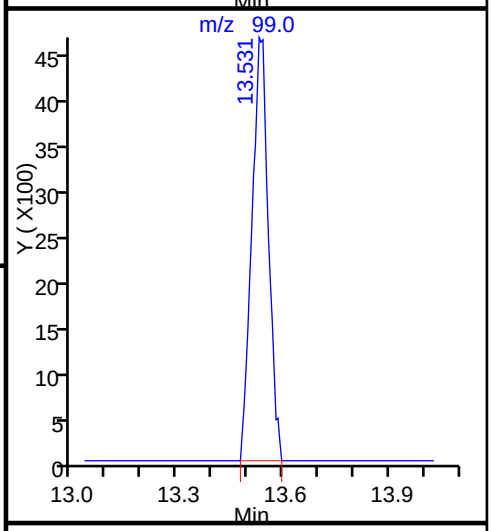
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

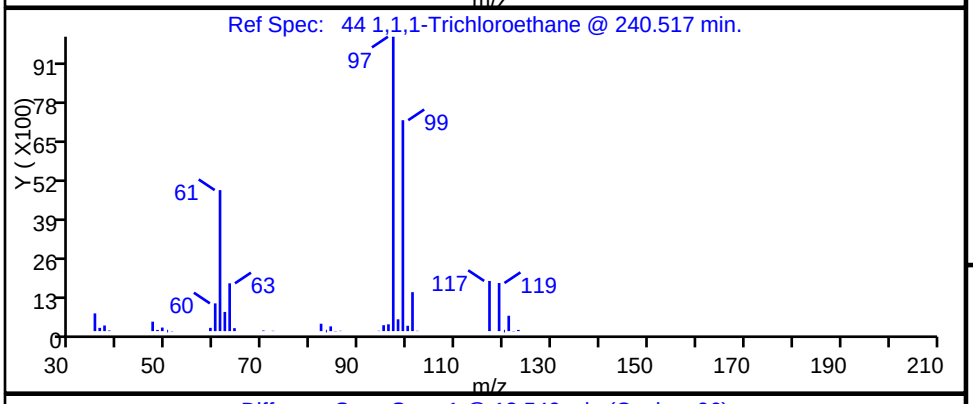
44 1,1,1-Trichloroethane, CAS: 71-55-6

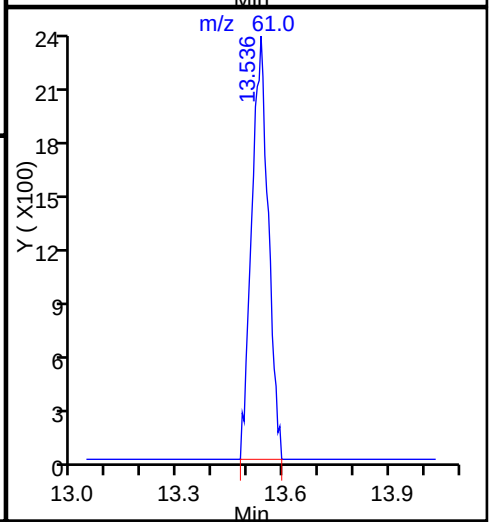


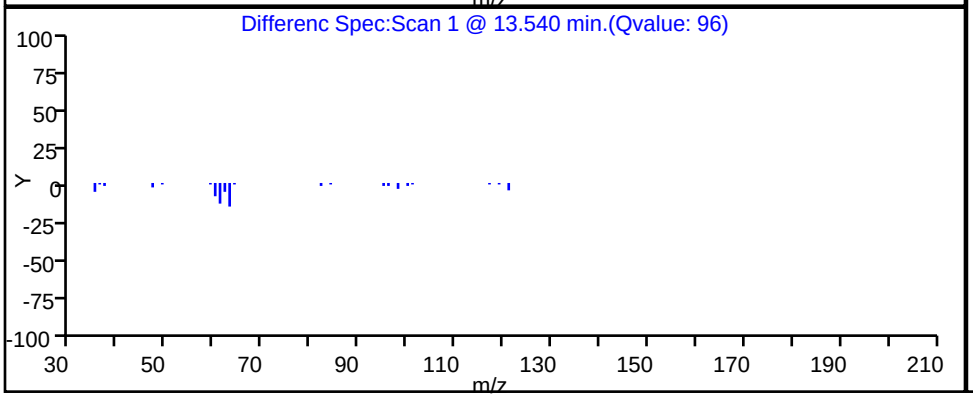










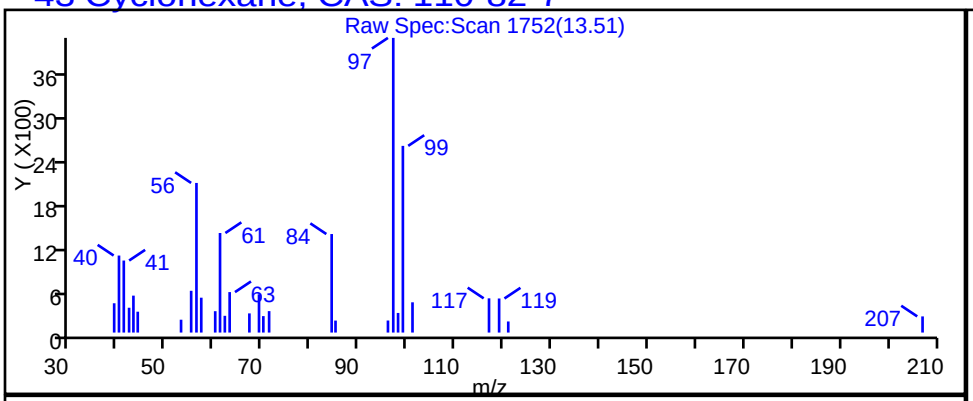


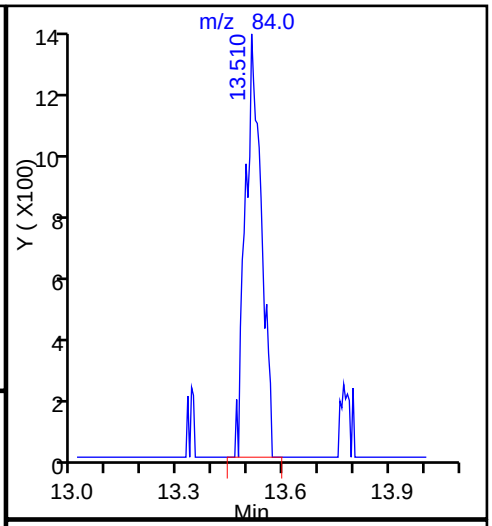
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

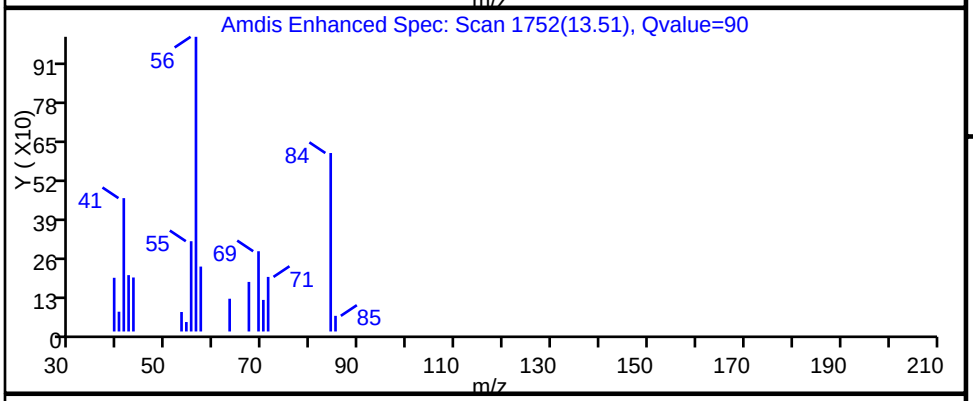
TestAmerica Burlington

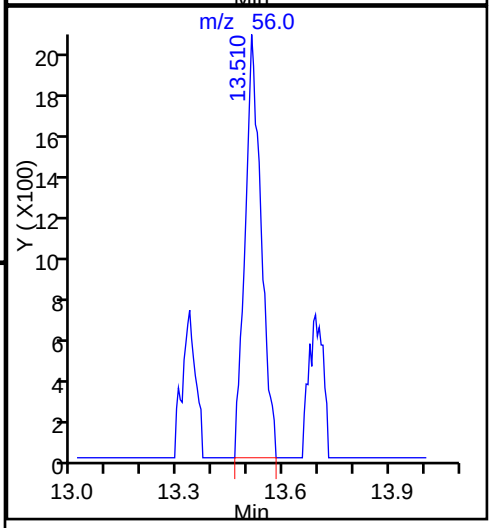
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

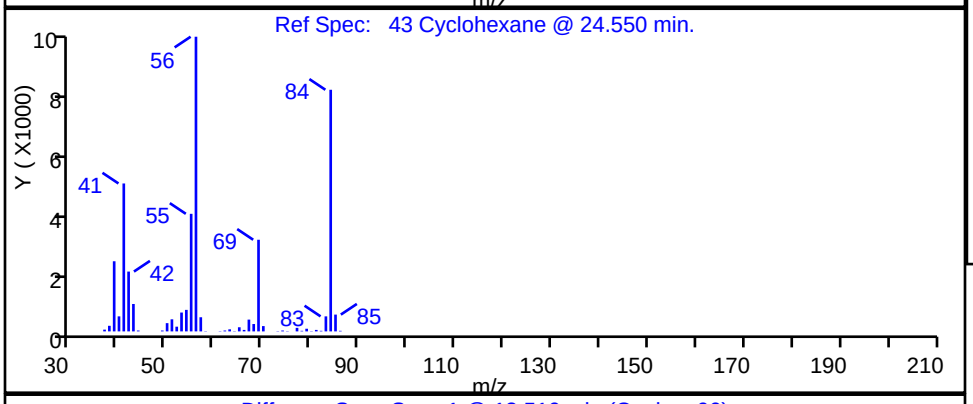
43 Cyclohexane, CAS: 110-82-7

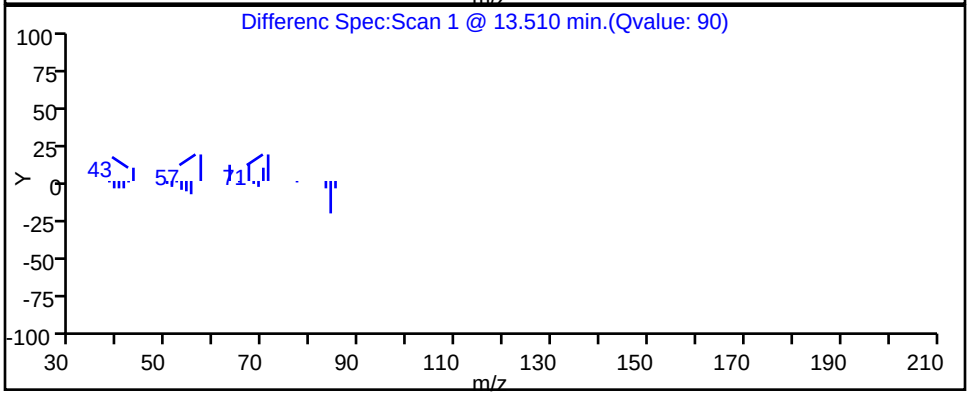












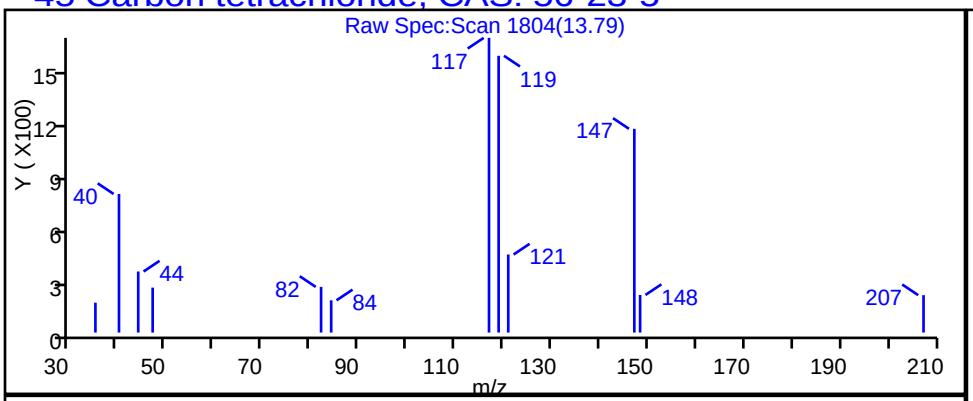
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

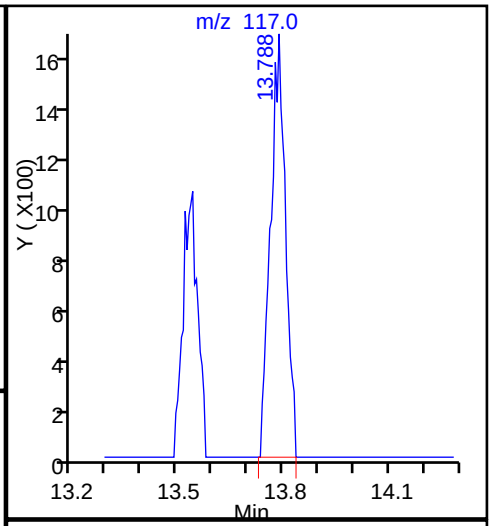
TestAmerica Burlington

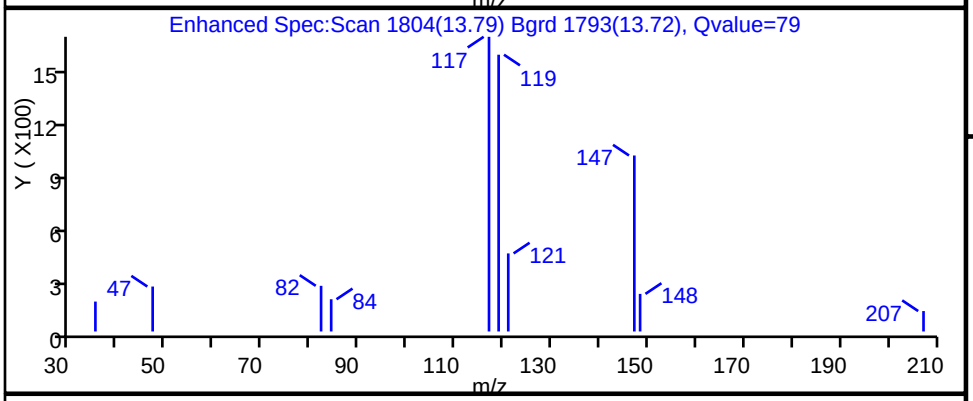
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

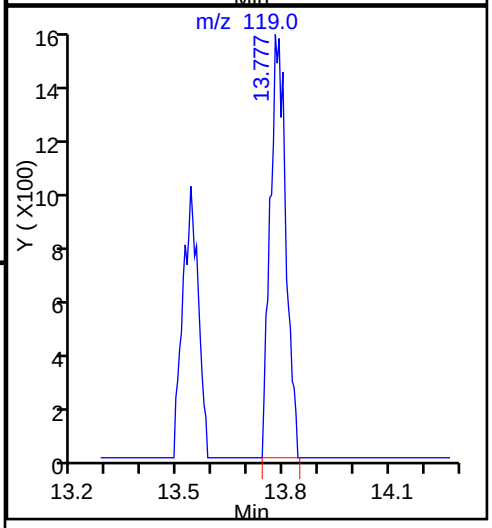
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

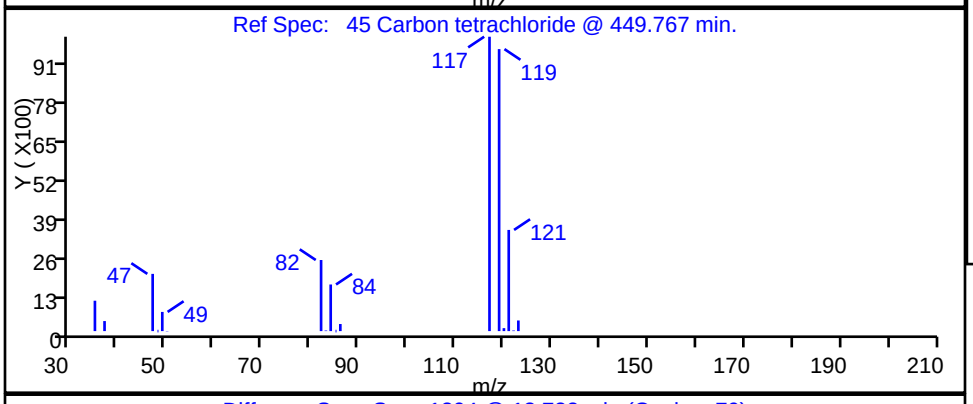
45 Carbon tetrachloride, CAS: 56-23-5

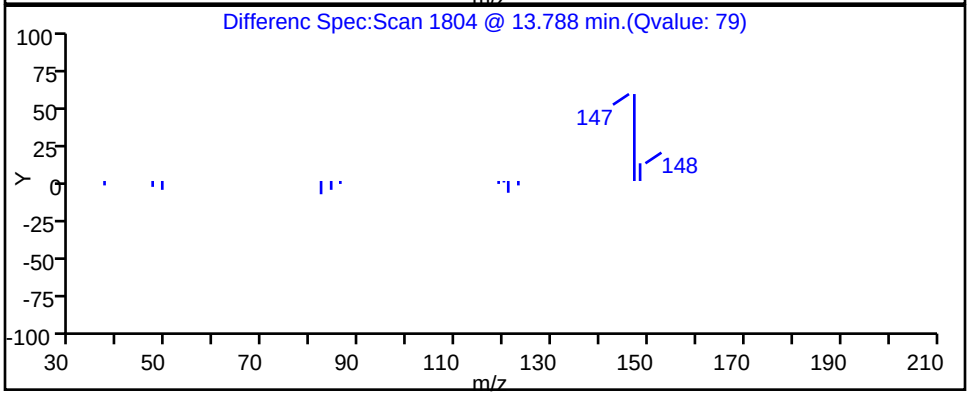












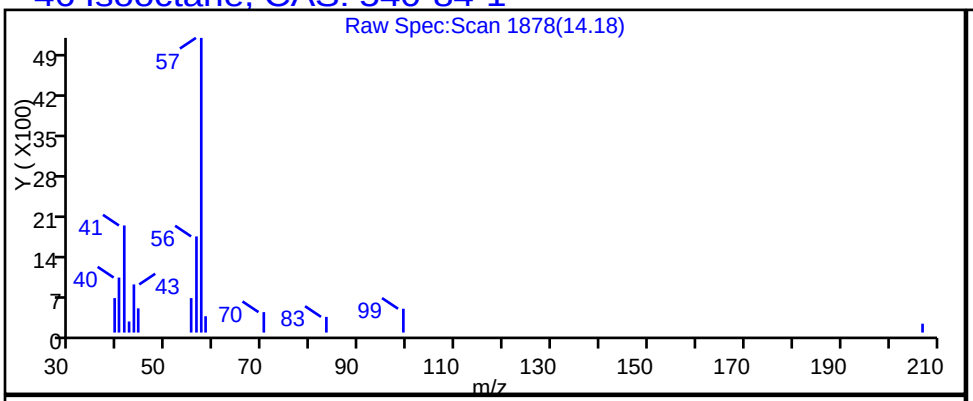
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

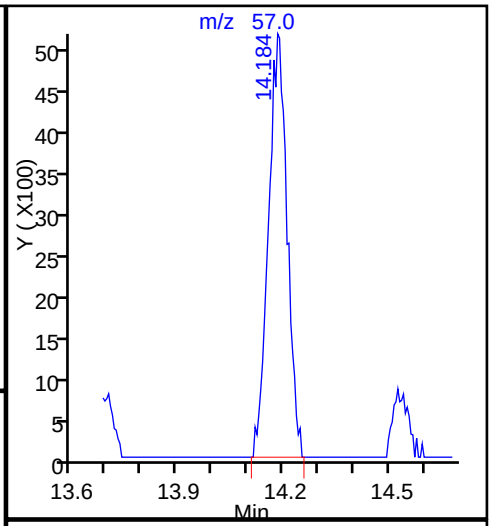
TestAmerica Burlington

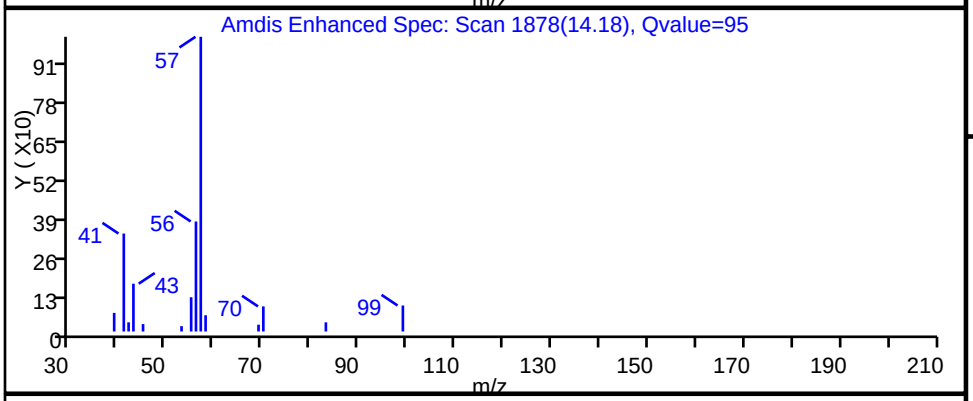
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

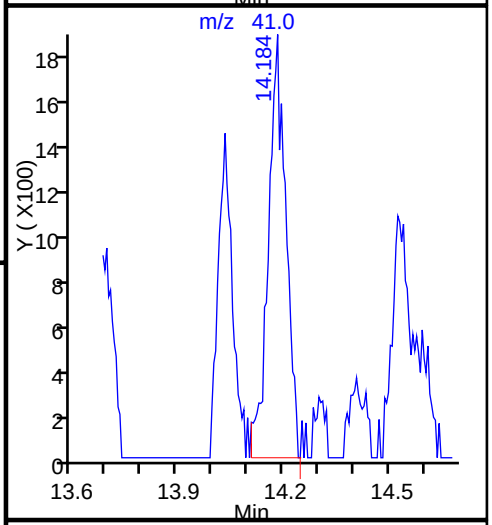
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

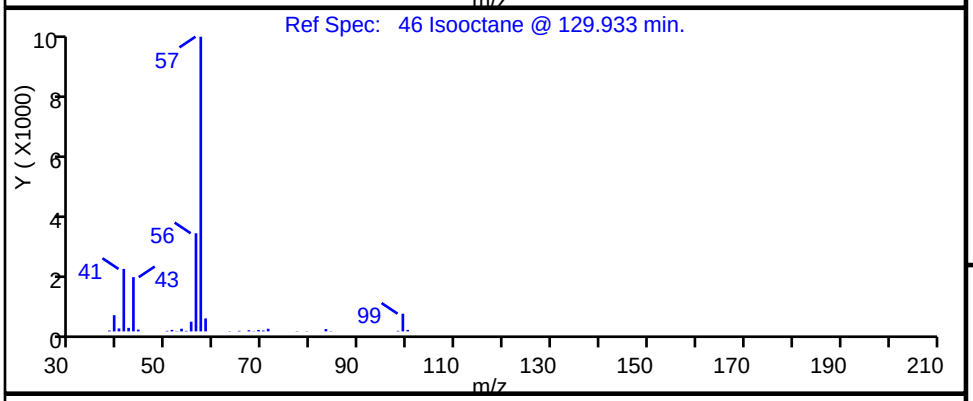
46 Isooctane, CAS: 540-84-1

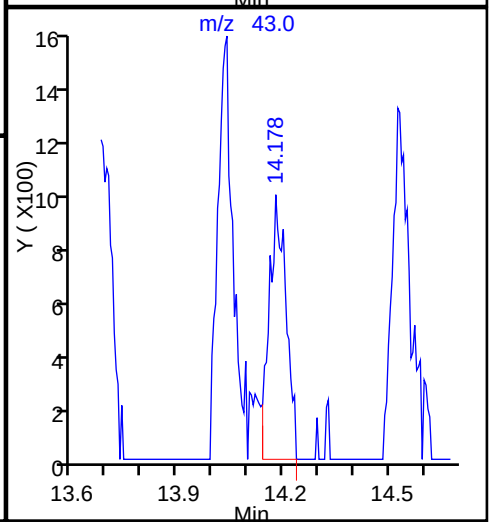


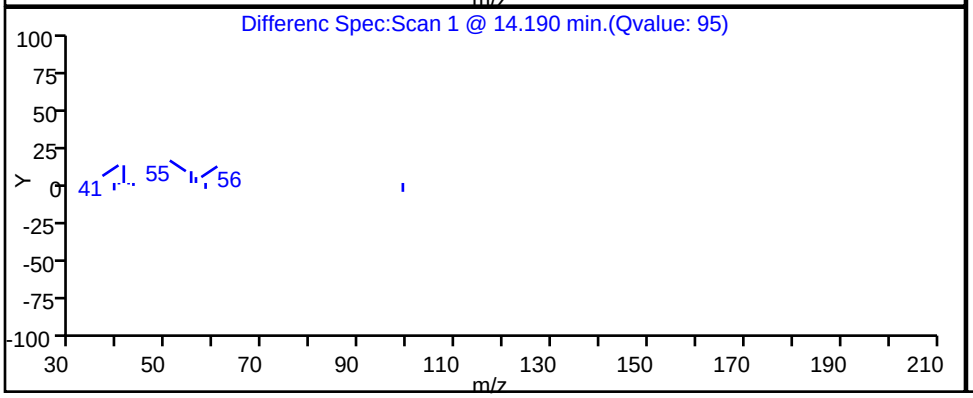










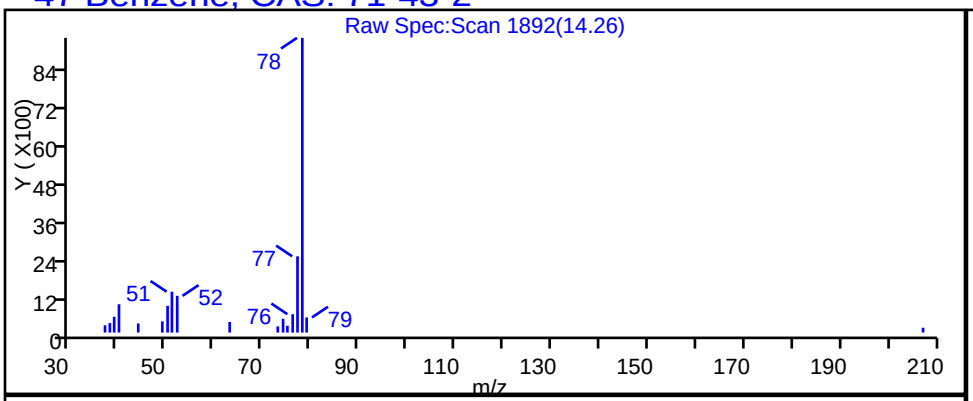


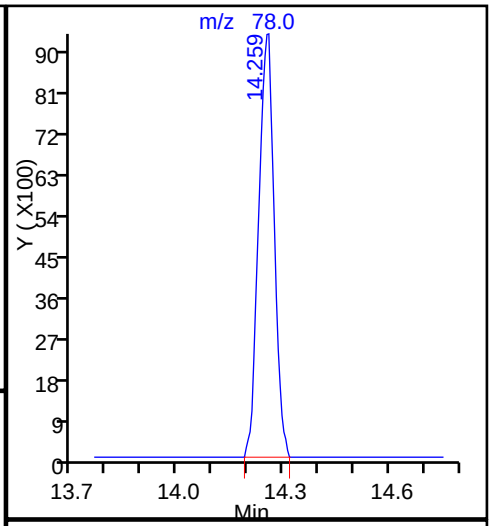
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

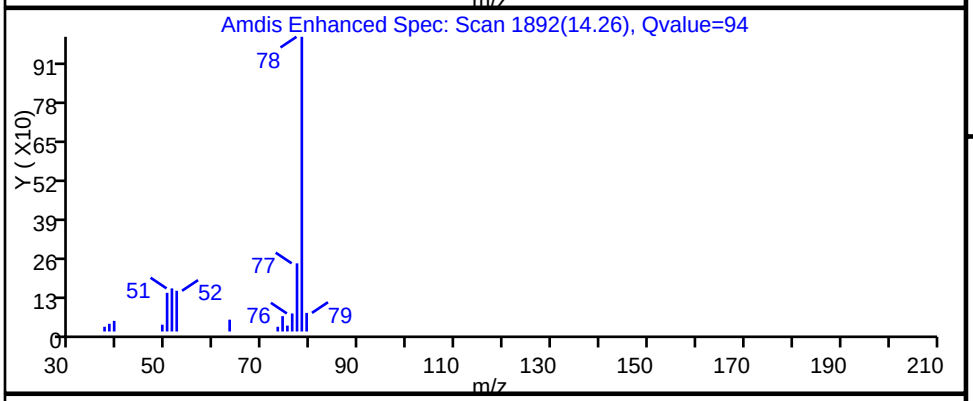
TestAmerica Burlington

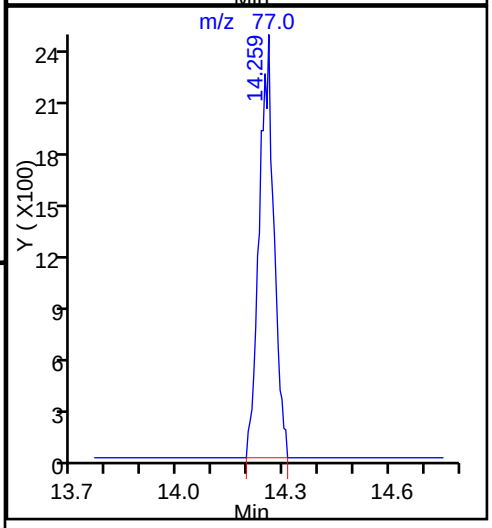
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

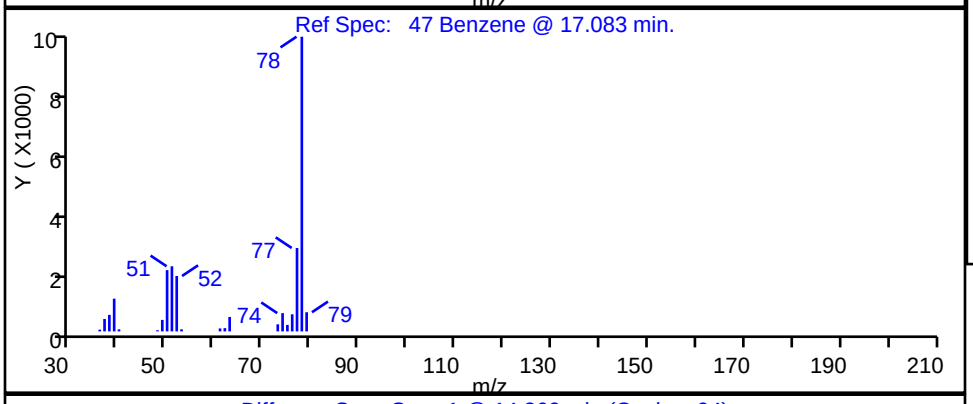
47 Benzene, CAS: 71-43-2

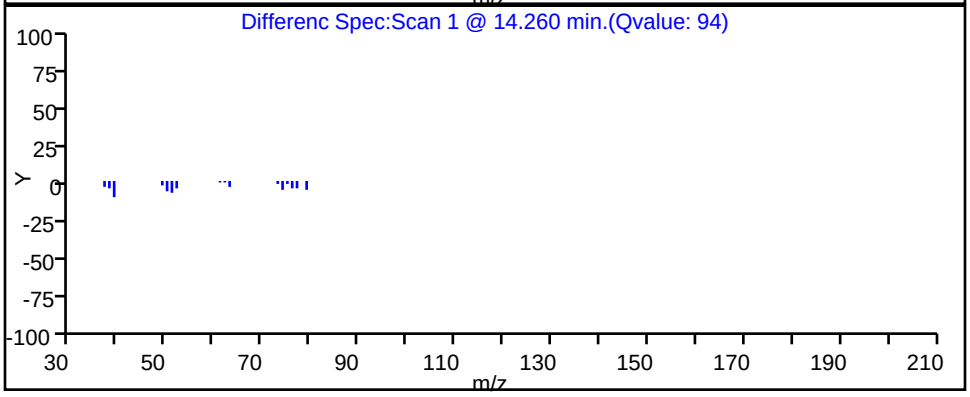












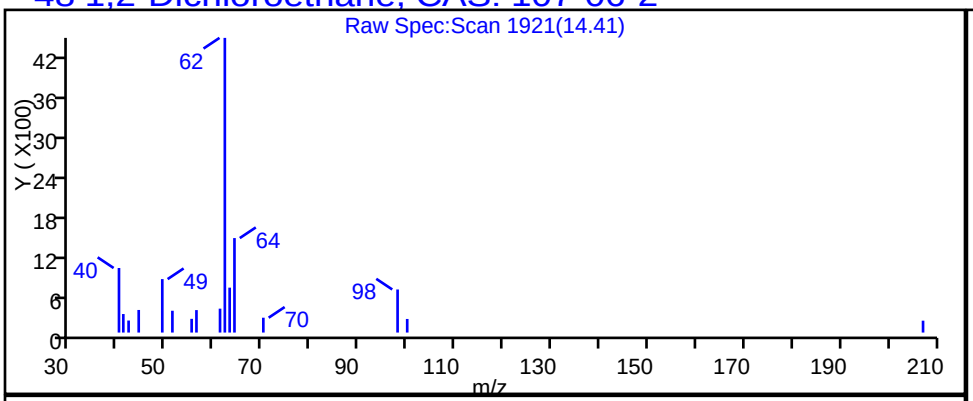
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

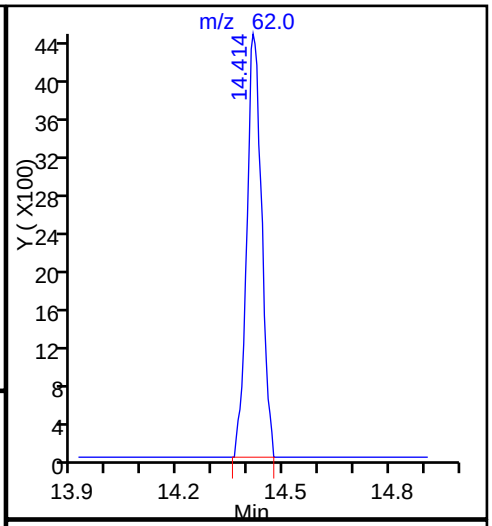
TestAmerica Burlington

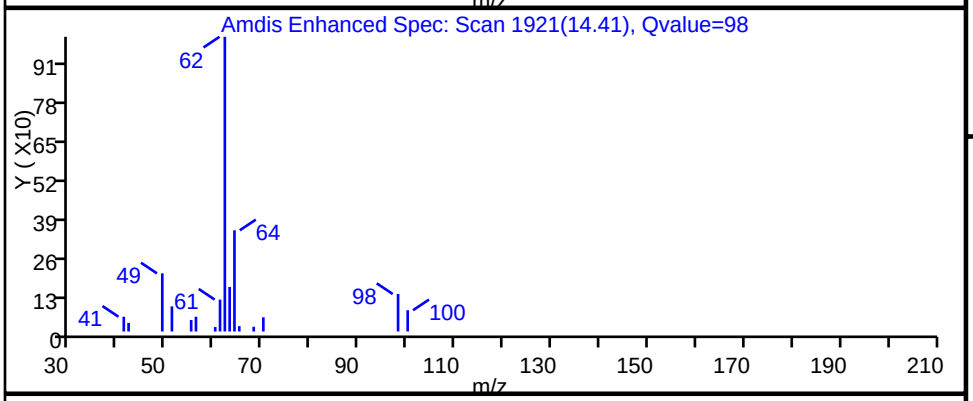
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

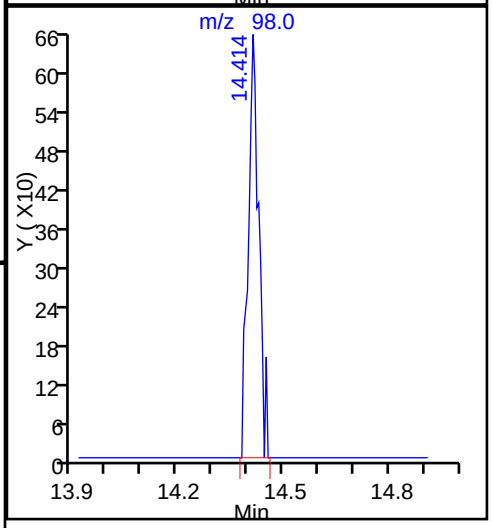
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

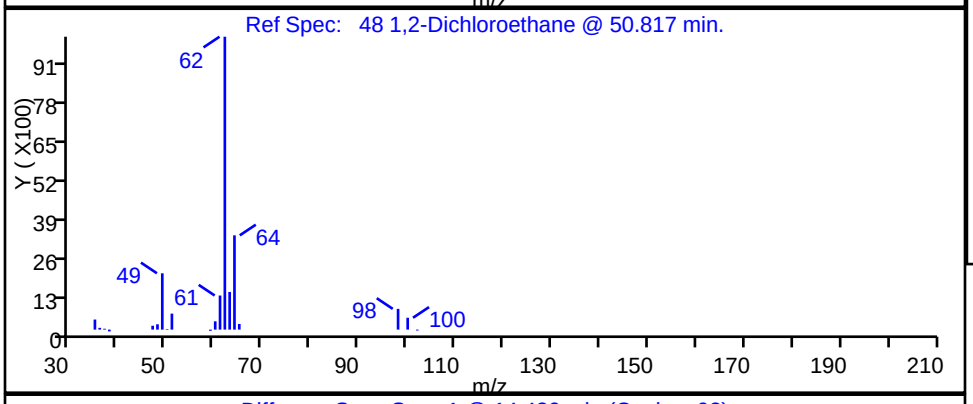
48 1,2-Dichloroethane, CAS: 107-06-2

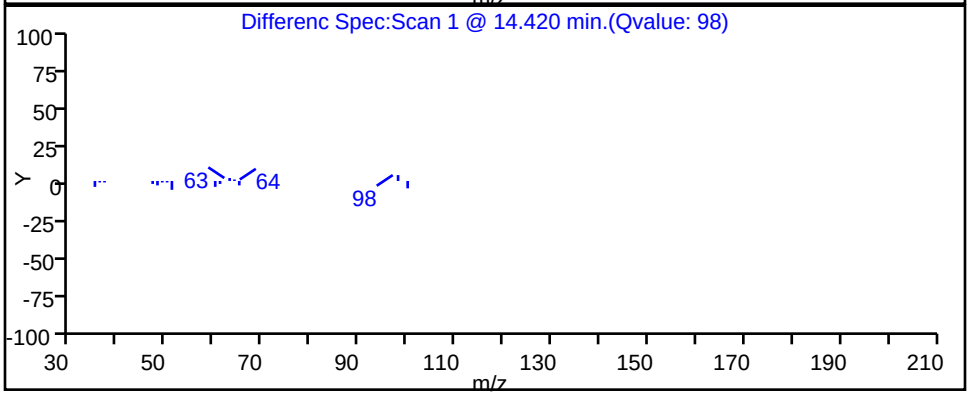












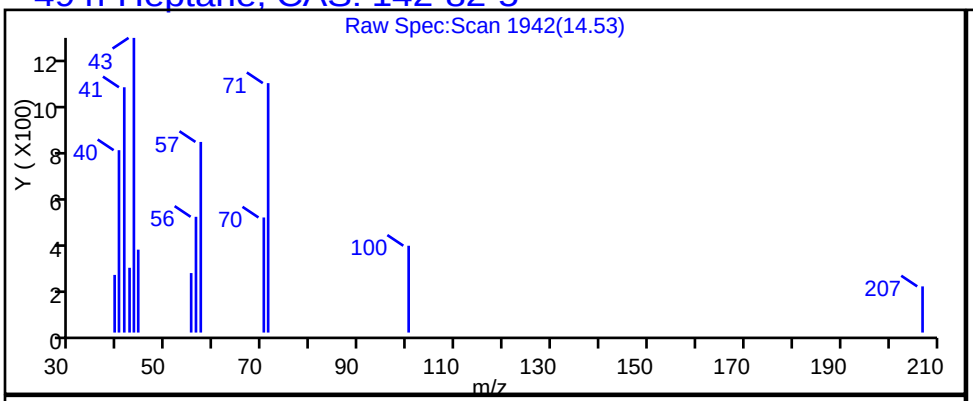
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

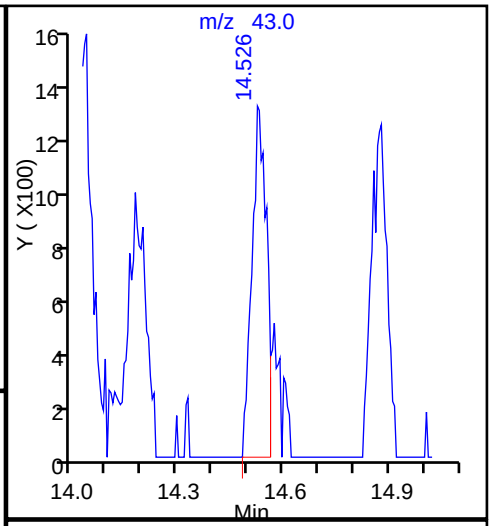
TestAmerica Burlington

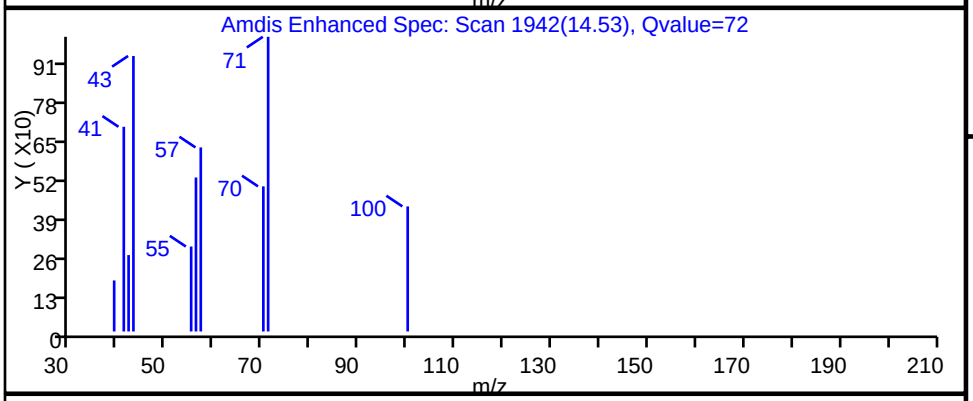
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

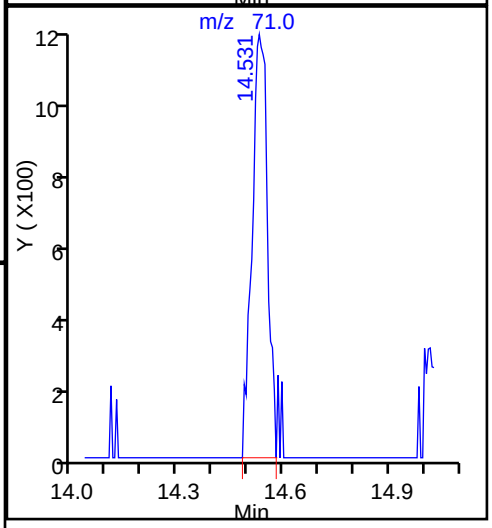
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

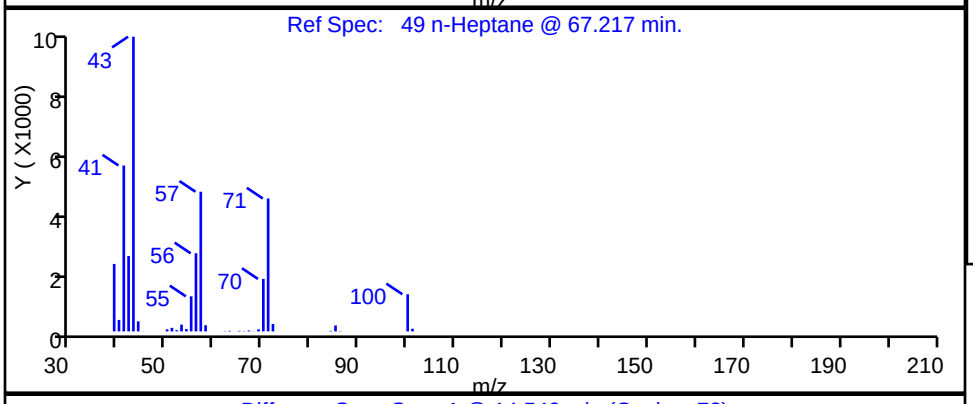
49 n-Heptane, CAS: 142-82-5

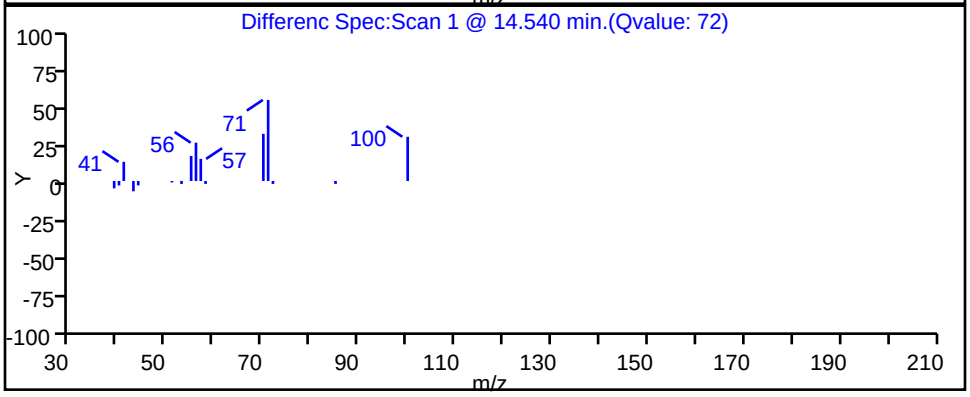












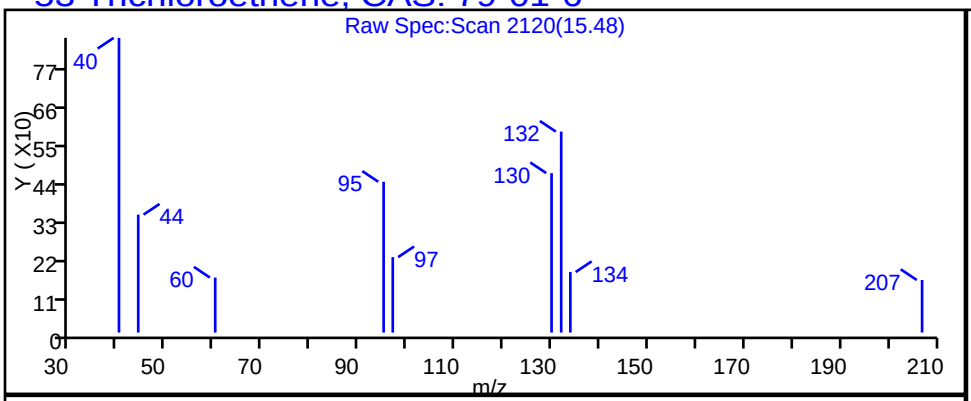
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

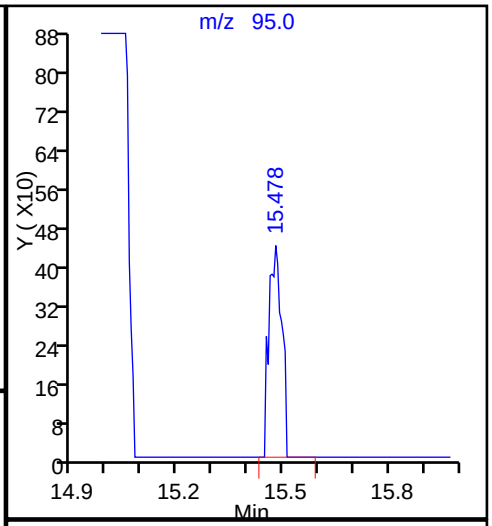
TestAmerica Burlington

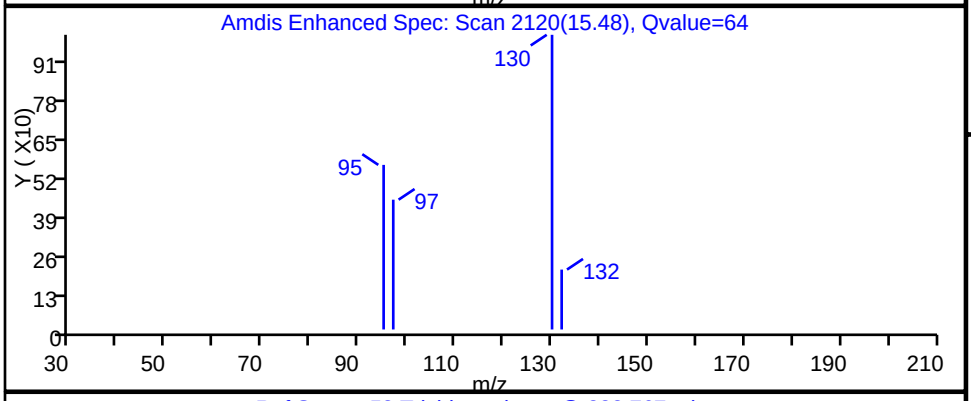
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

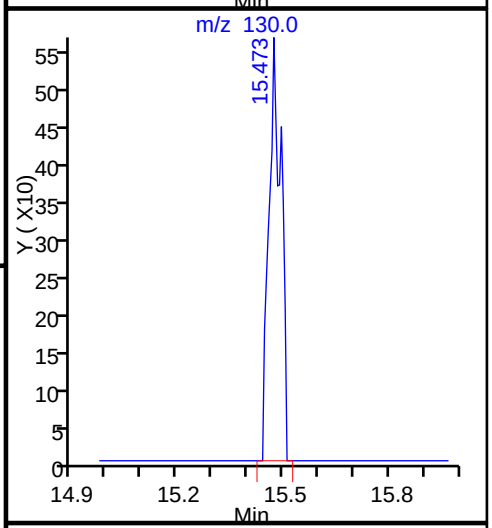
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

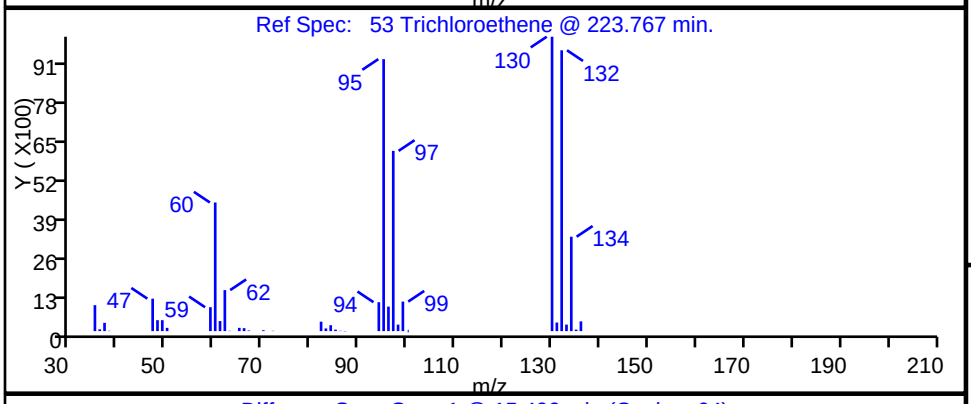
53 Trichloroethene, CAS: 79-01-6

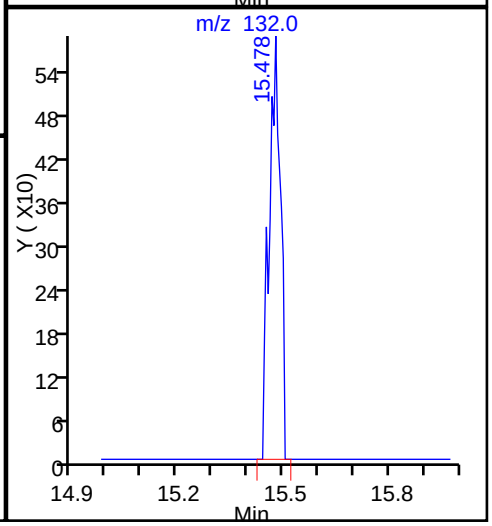


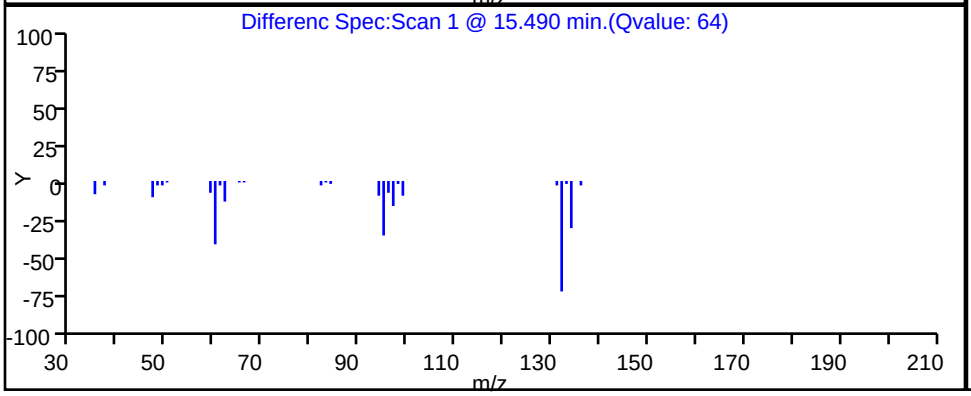










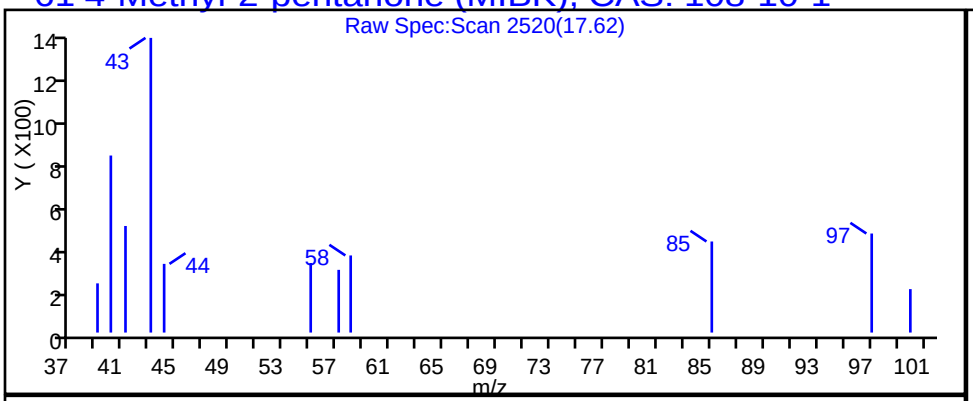


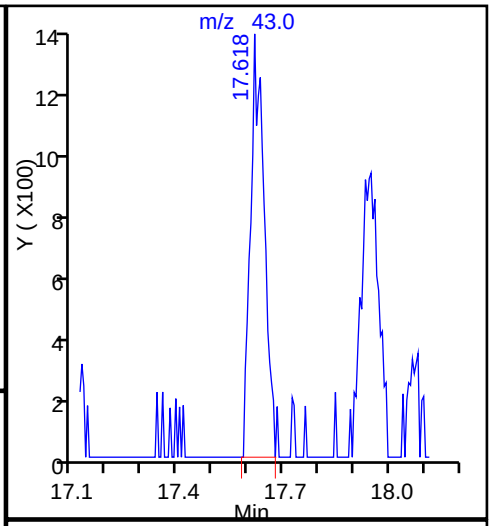
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

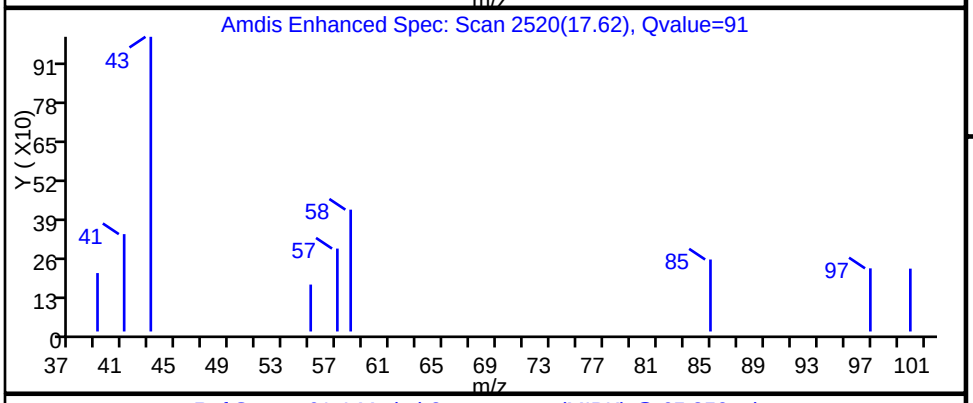
TestAmerica Burlington

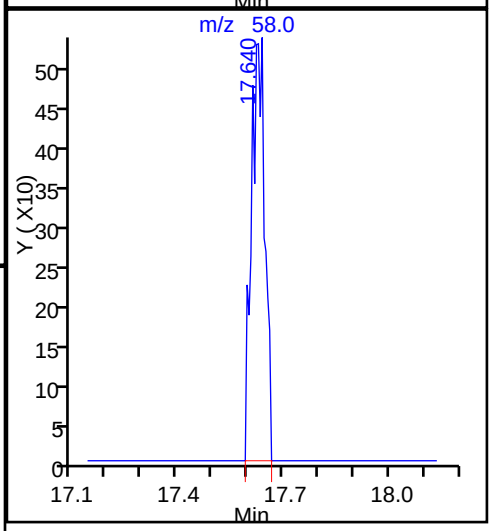
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

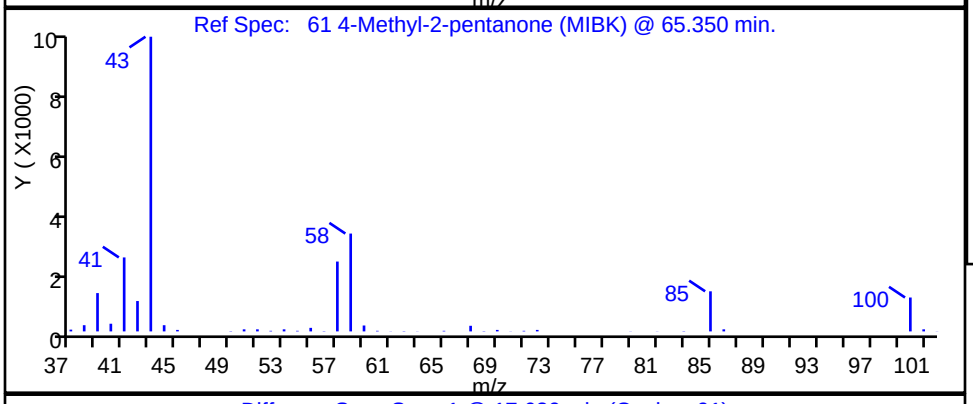
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

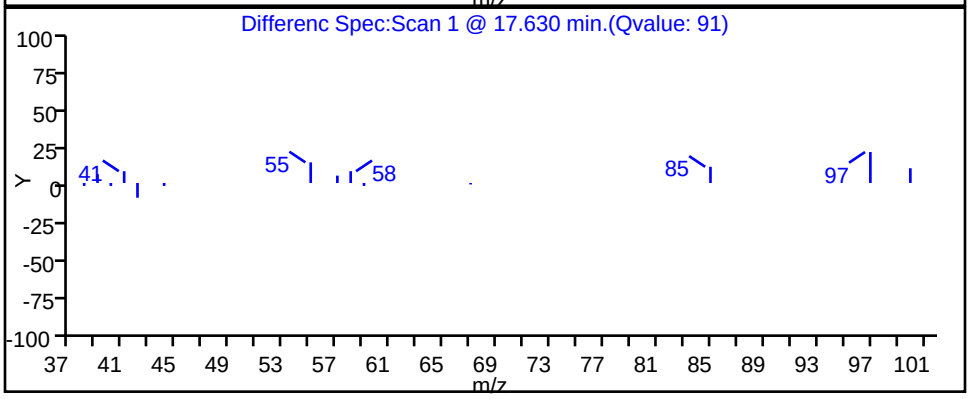












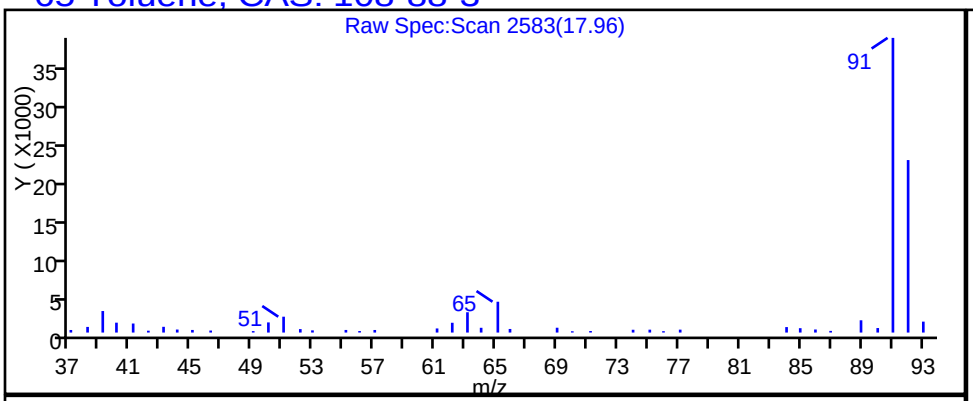
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

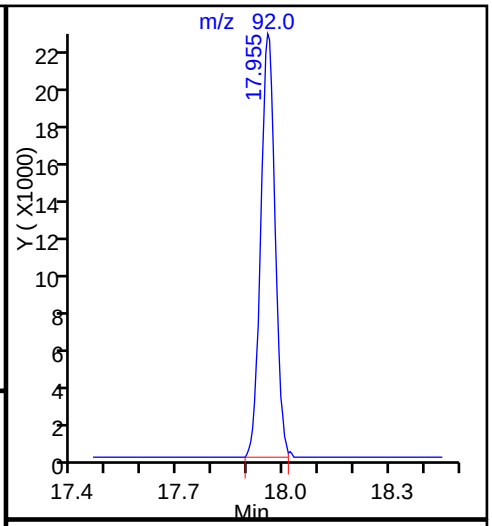
TestAmerica Burlington

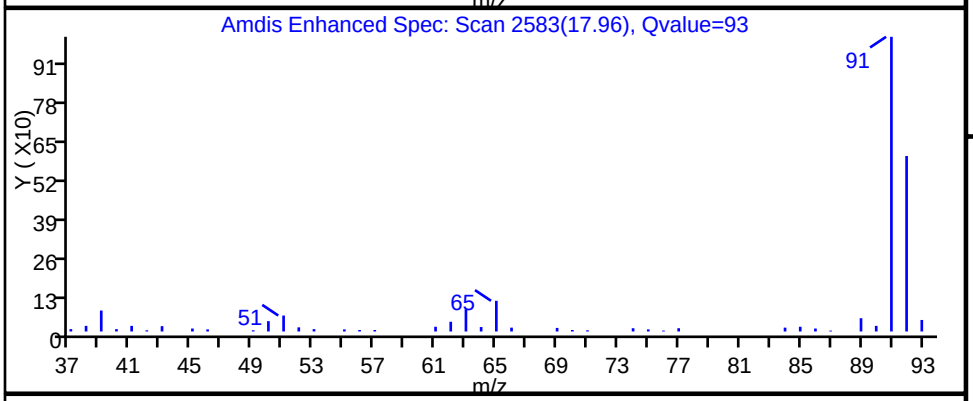
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

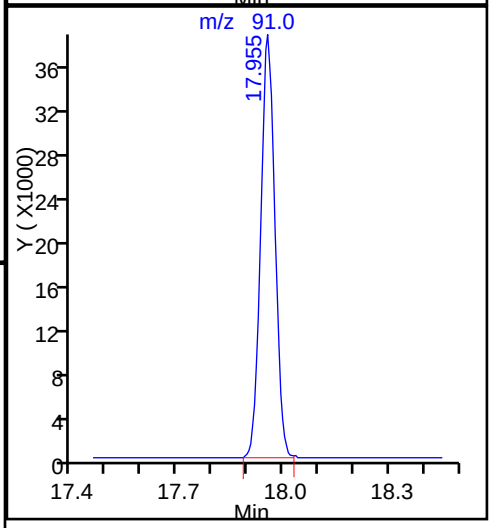
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

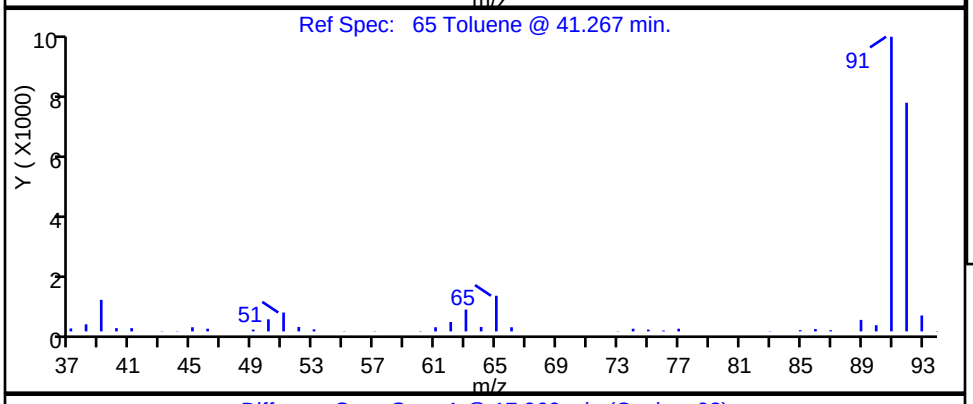
65 Toluene, CAS: 108-88-3

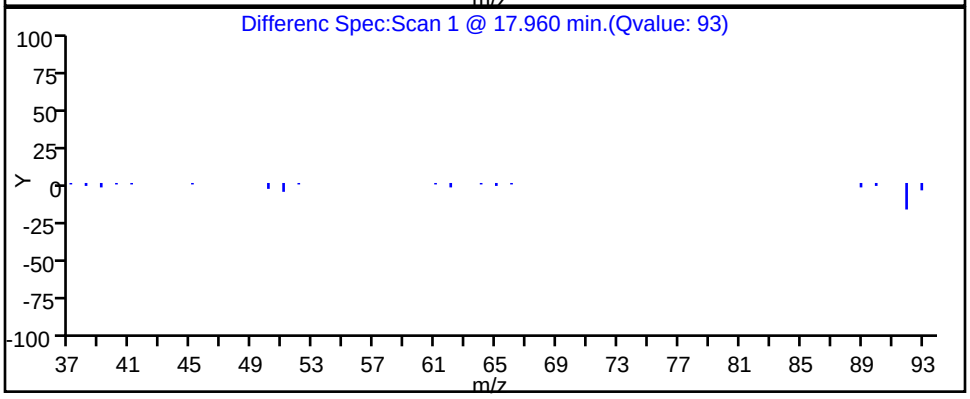












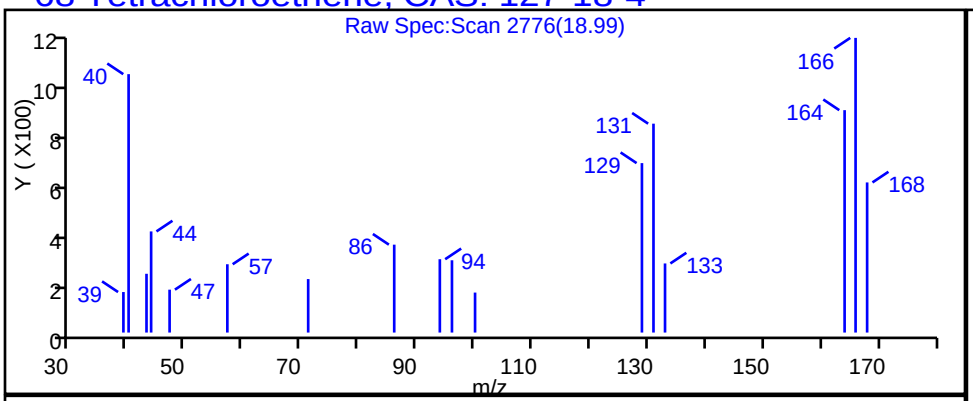
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

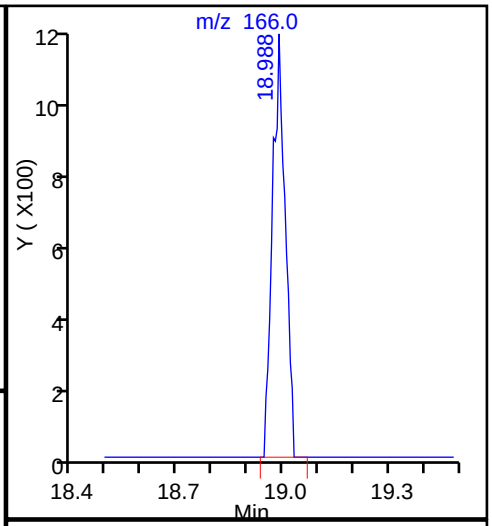
TestAmerica Burlington

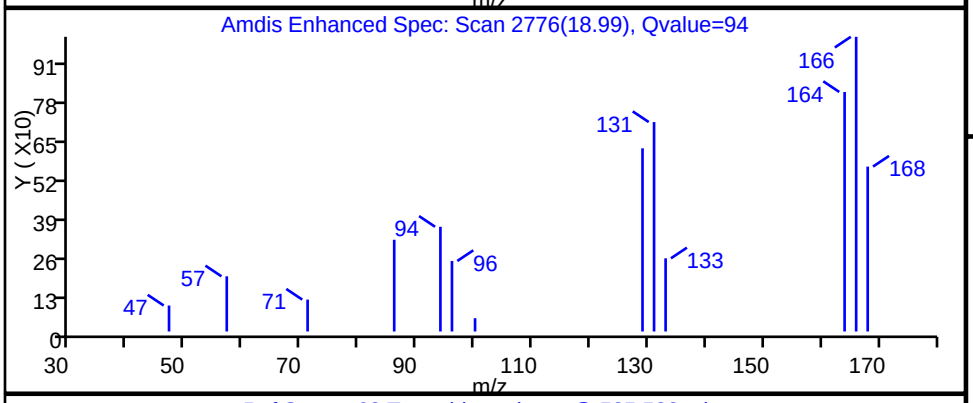
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

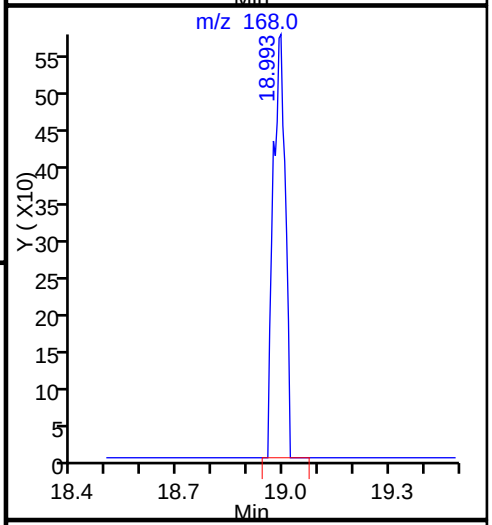
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

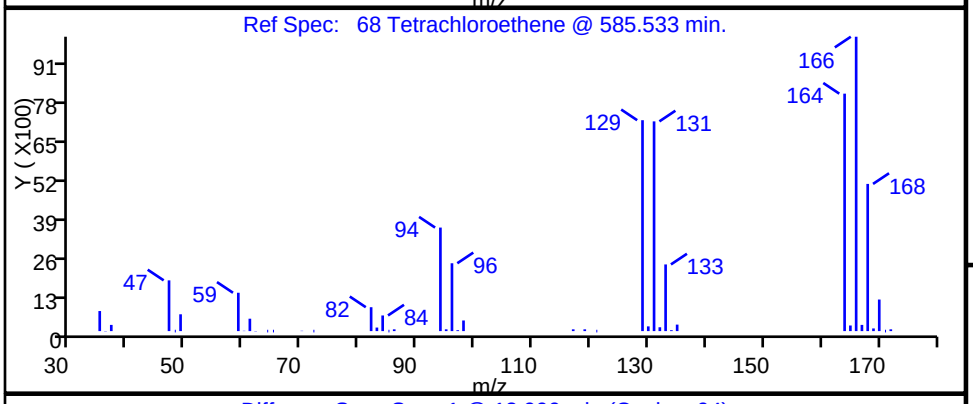
68 Tetrachloroethene, CAS: 127-18-4

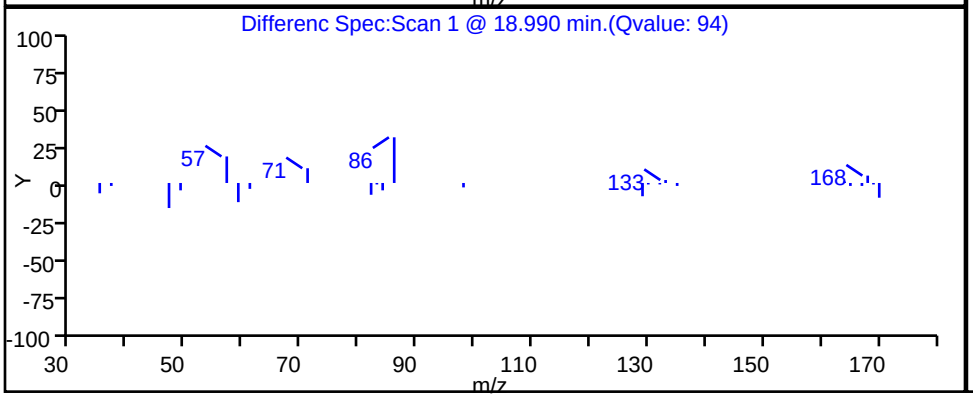


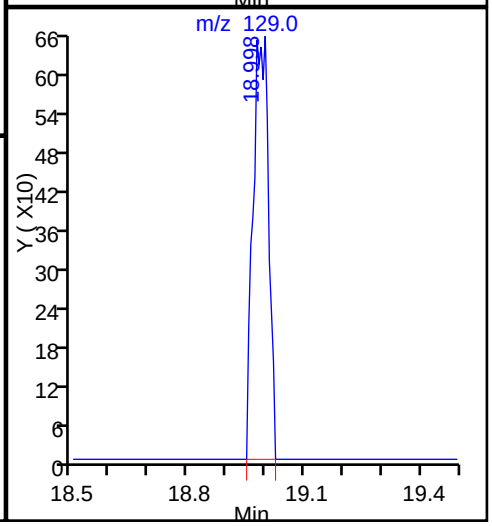










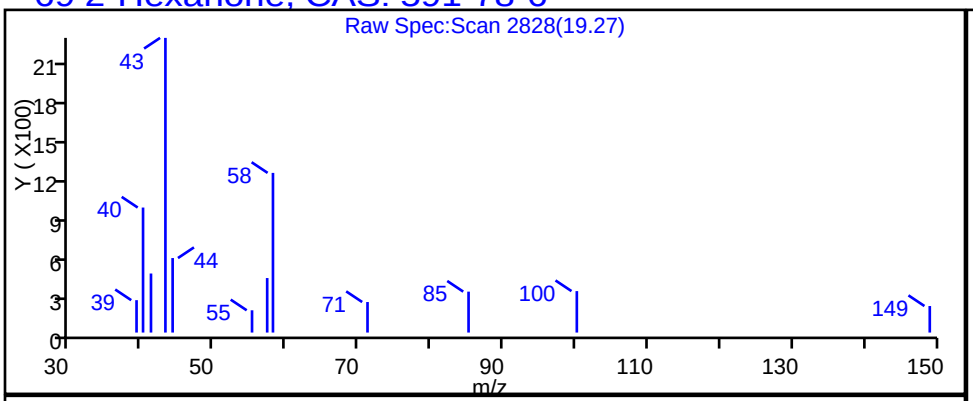


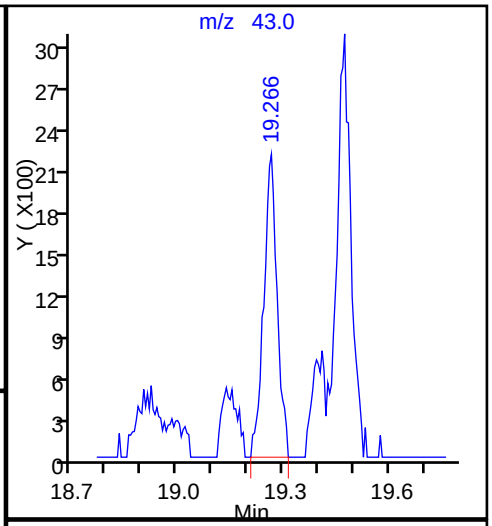
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

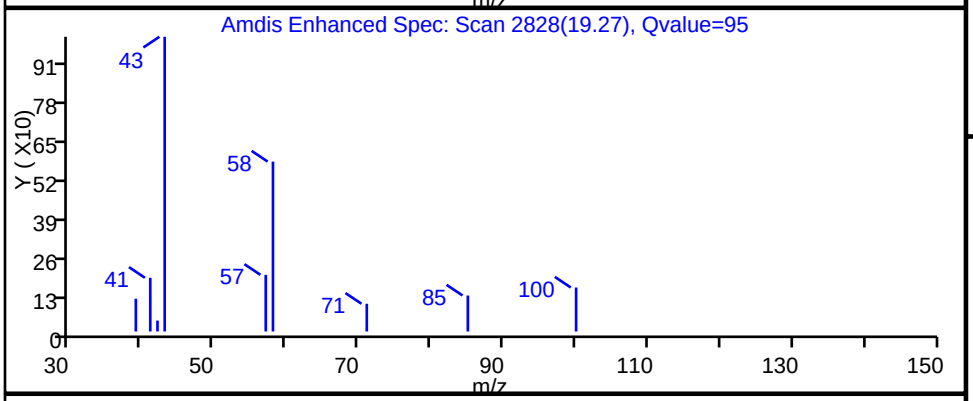
TestAmerica Burlington

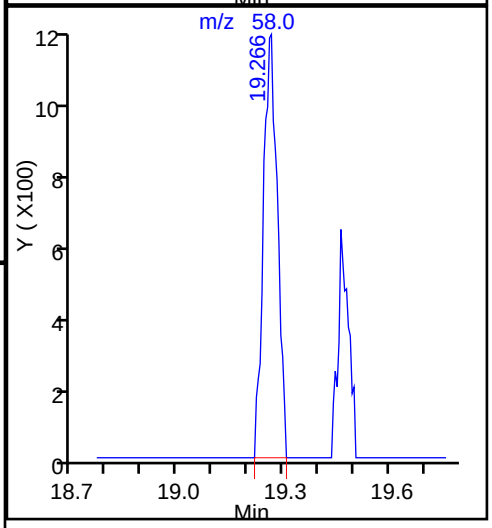
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

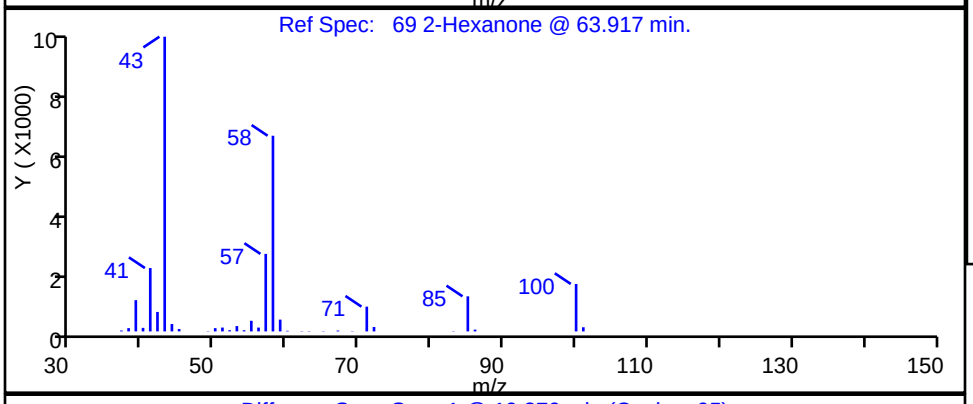
69 2-Hexanone, CAS: 591-78-6

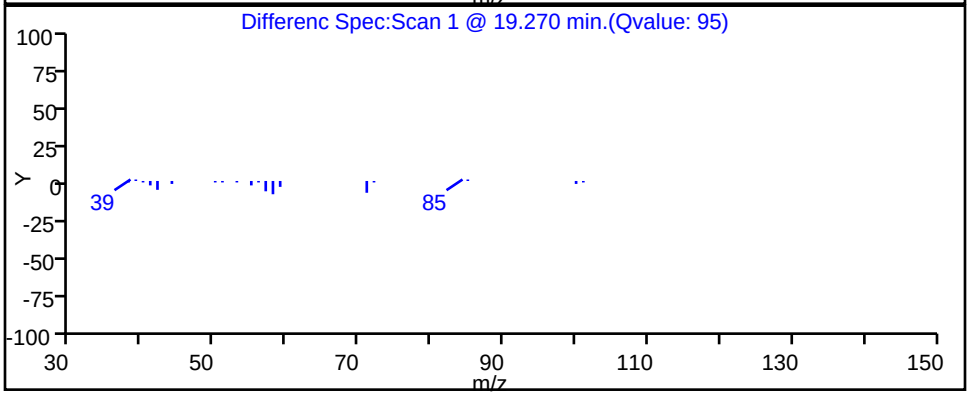












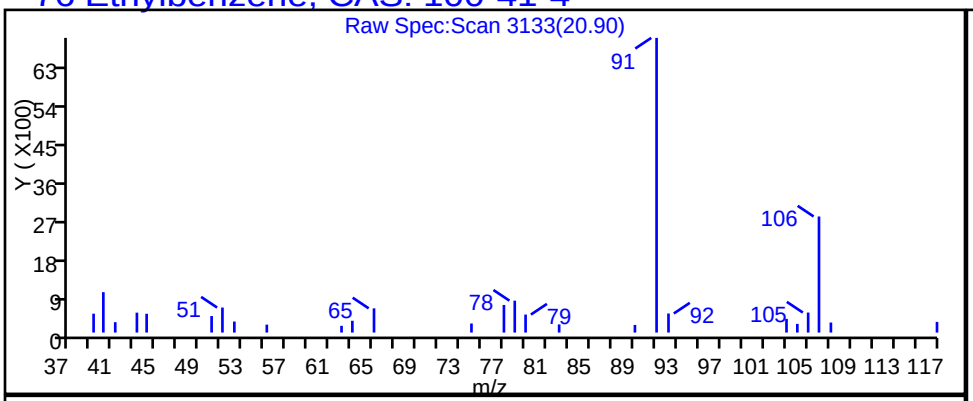
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

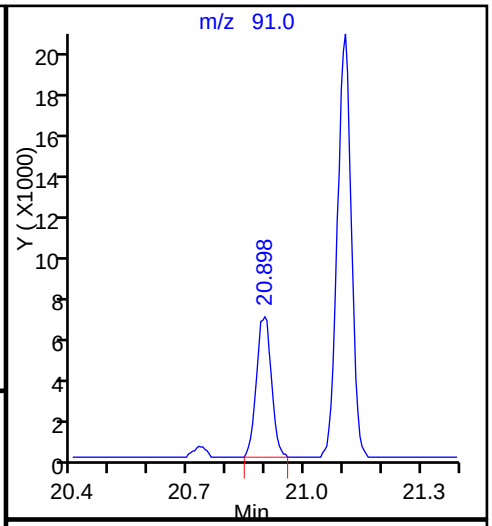
TestAmerica Burlington

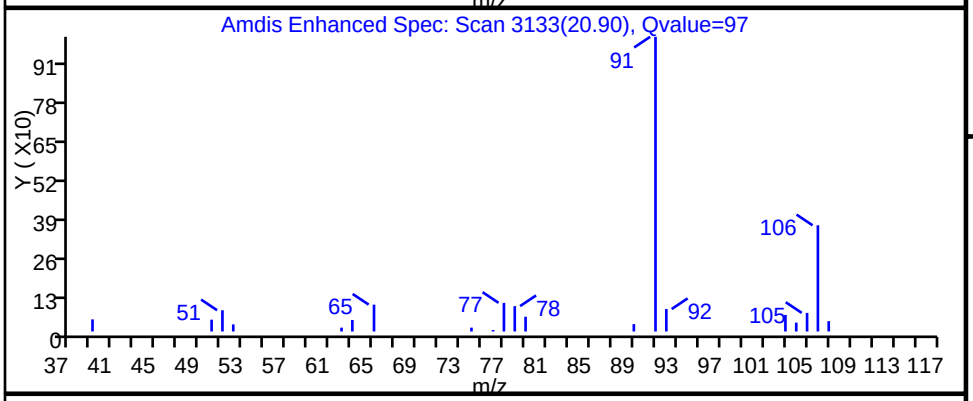
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

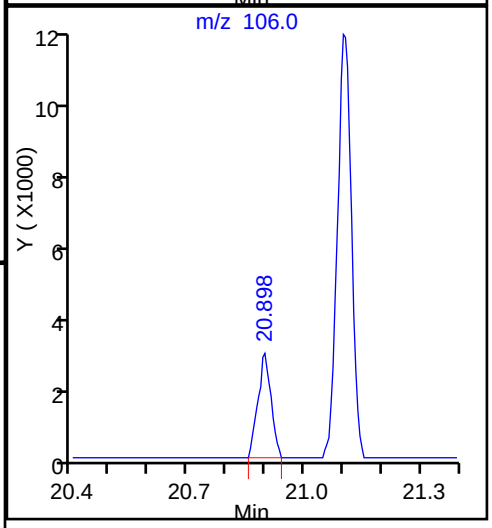
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

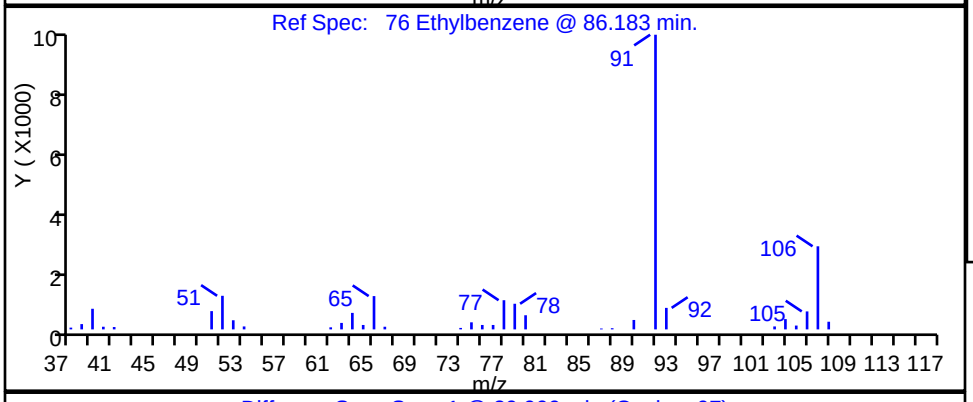
76 Ethylbenzene, CAS: 100-41-4

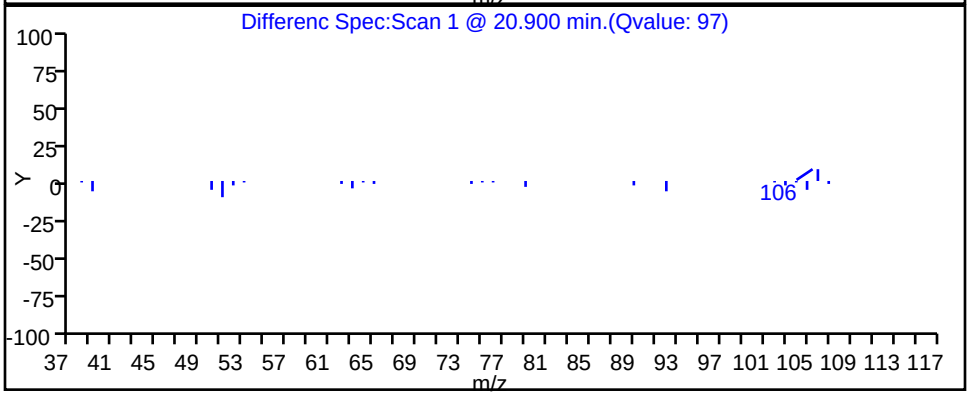












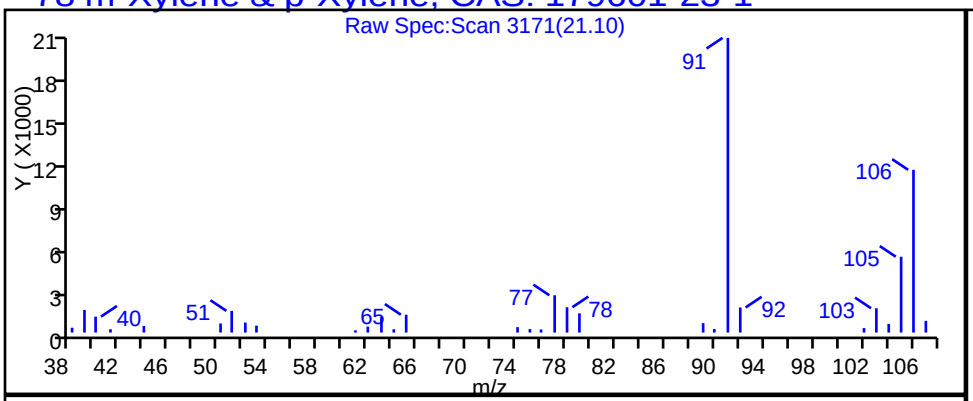
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

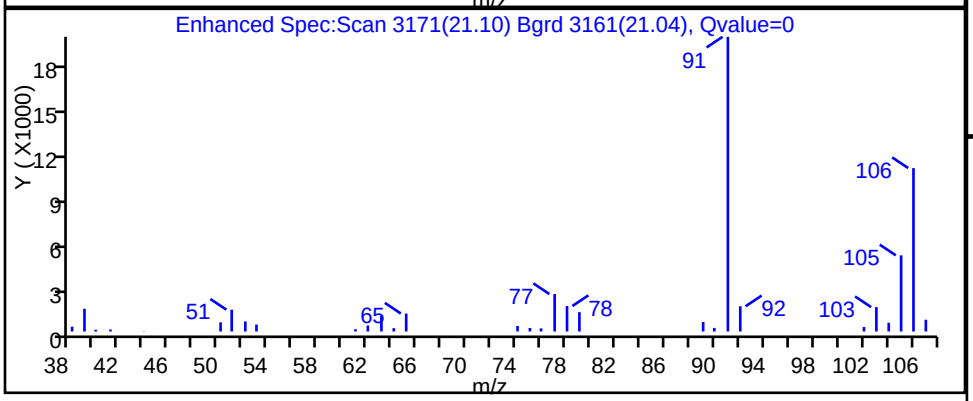
TestAmerica Burlington

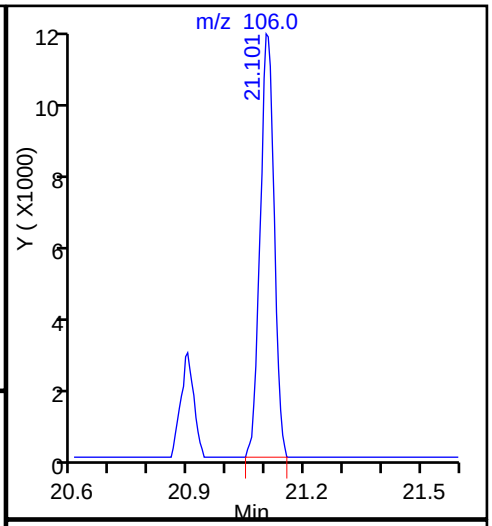
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

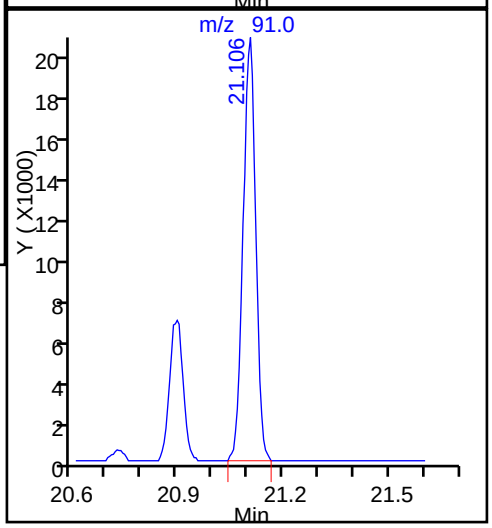
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









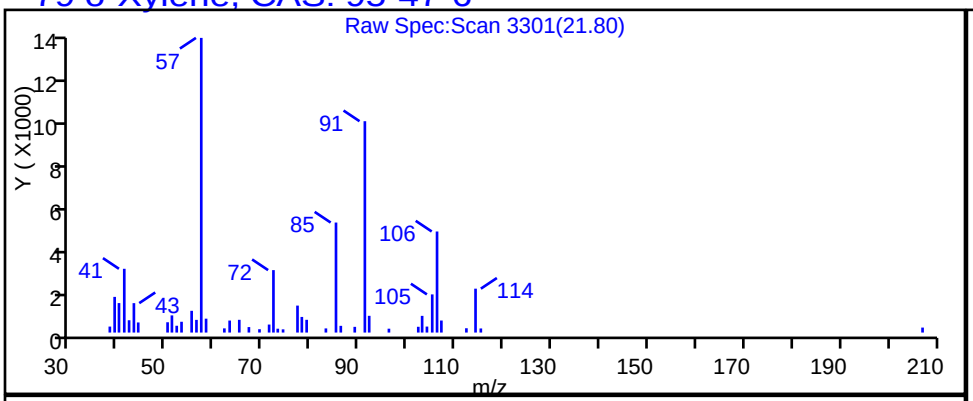
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

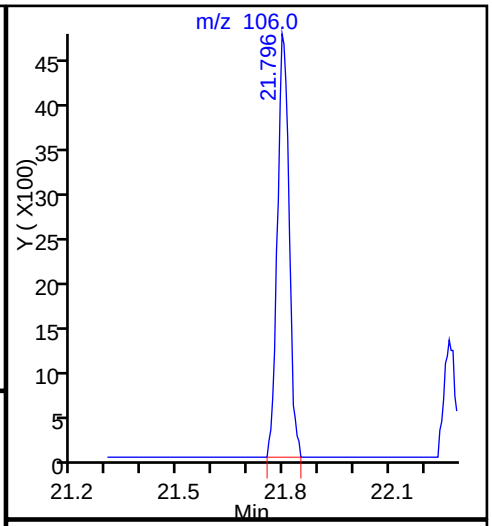
TestAmerica Burlington

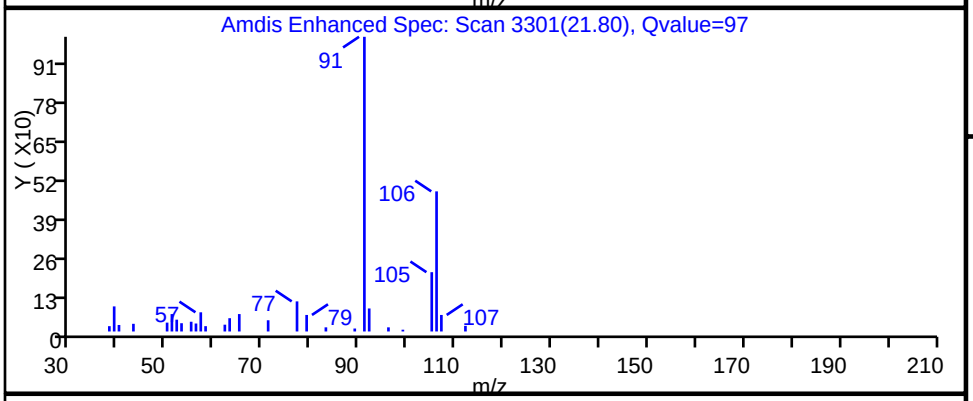
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

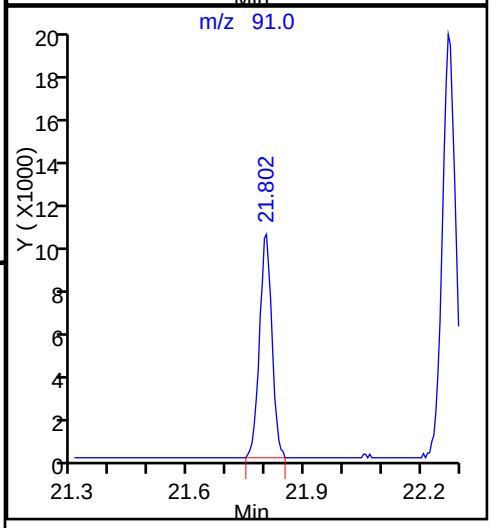
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

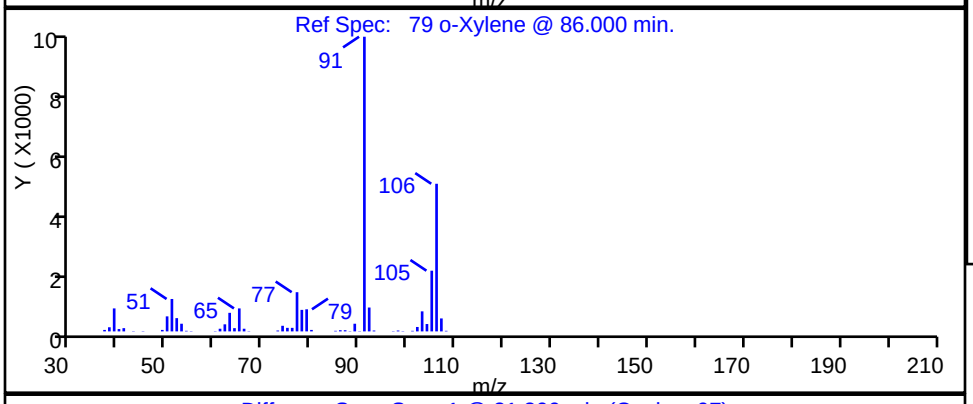
79 o-Xylene, CAS: 95-47-6

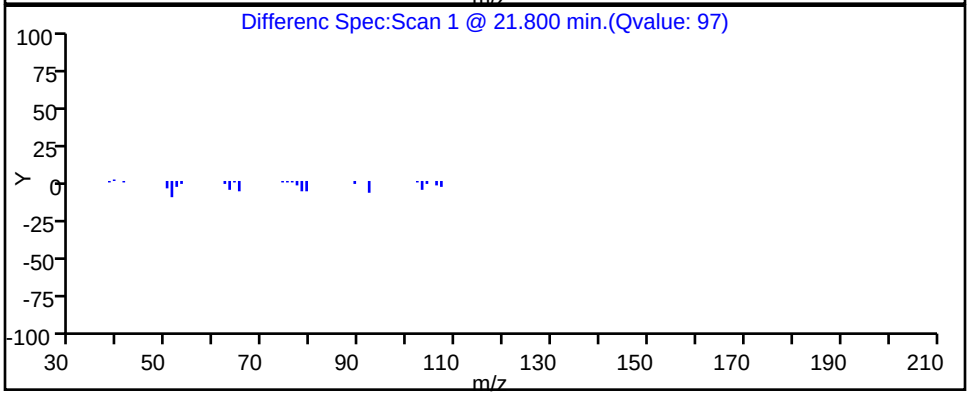












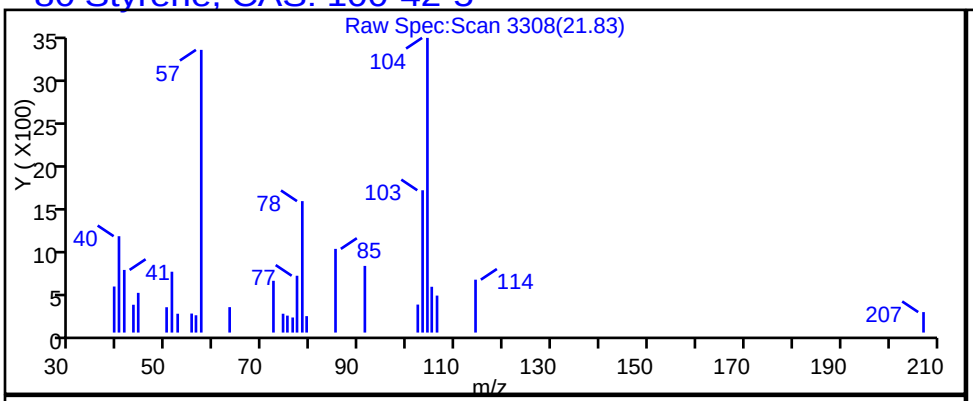
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

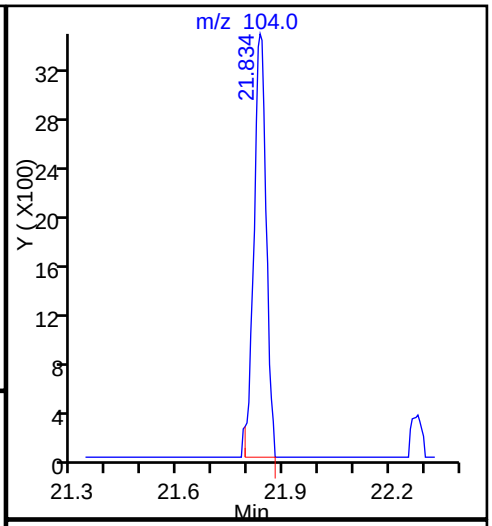
TestAmerica Burlington

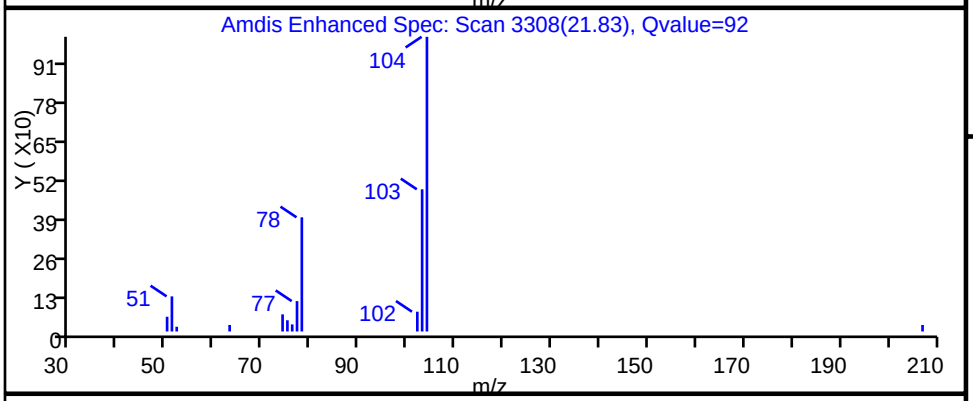
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

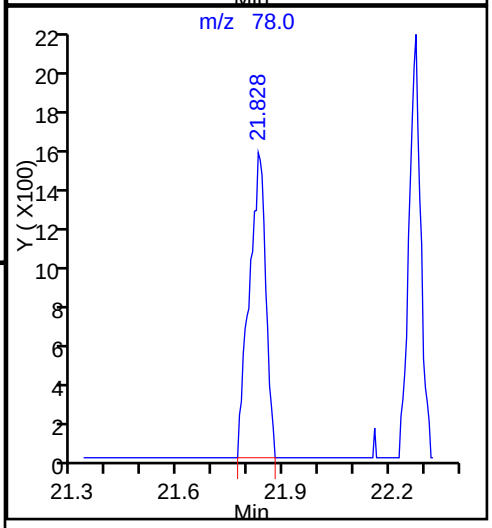
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

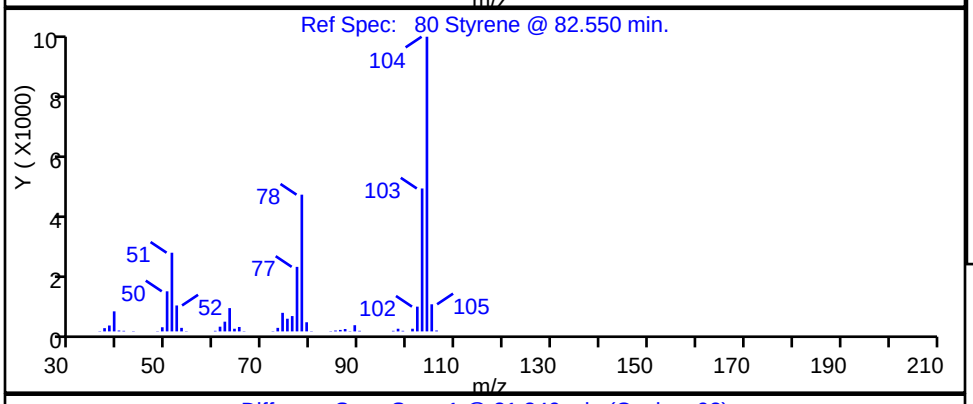
80 Styrene, CAS: 100-42-5

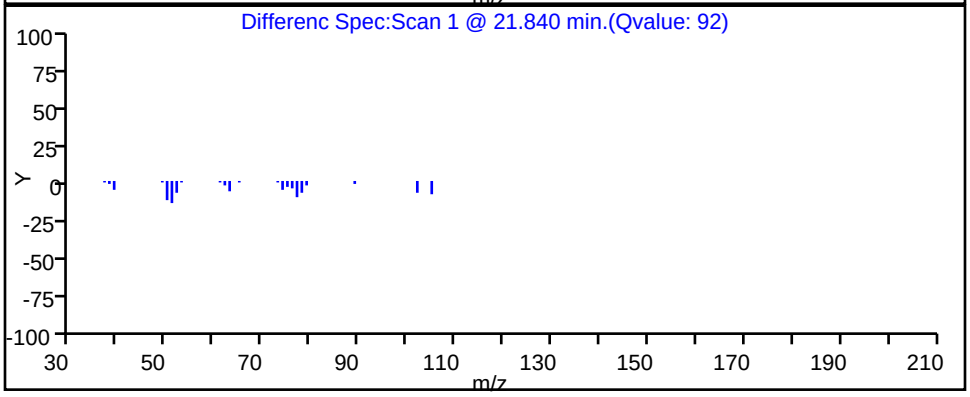












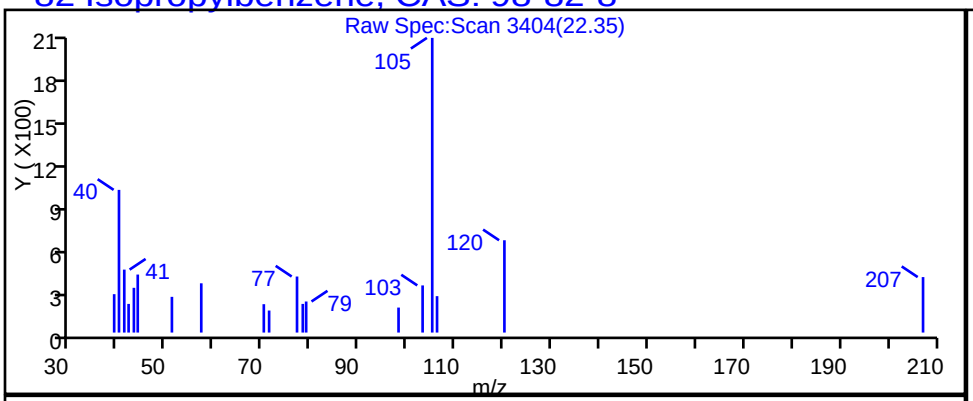
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

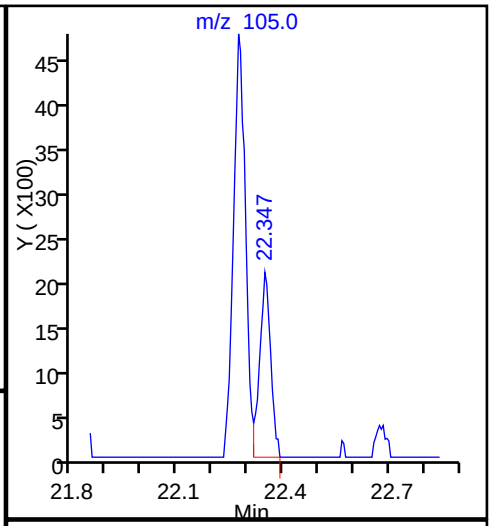
TestAmerica Burlington

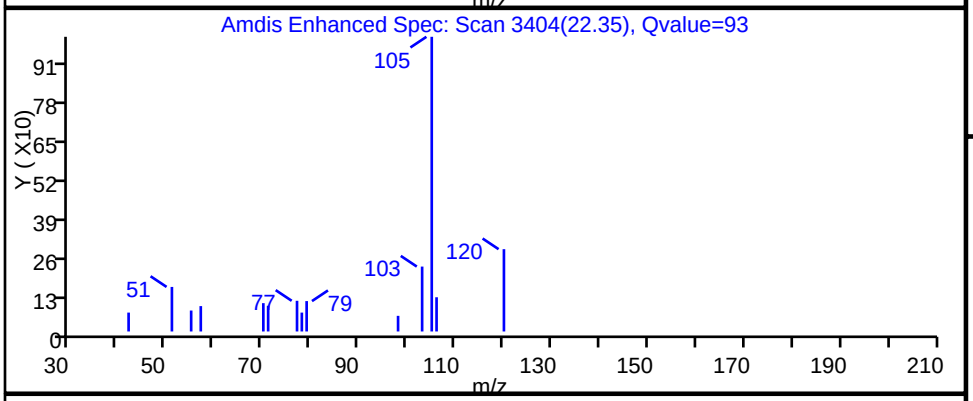
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

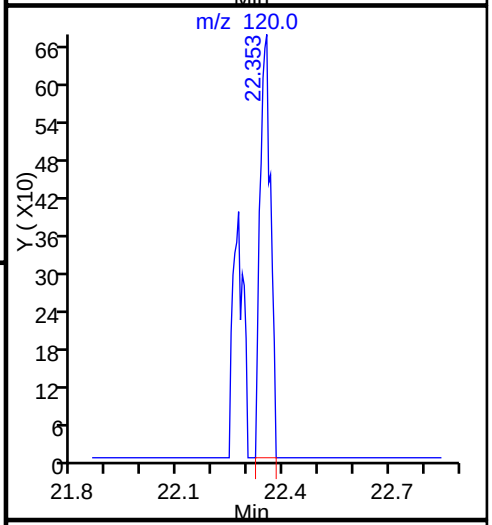
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

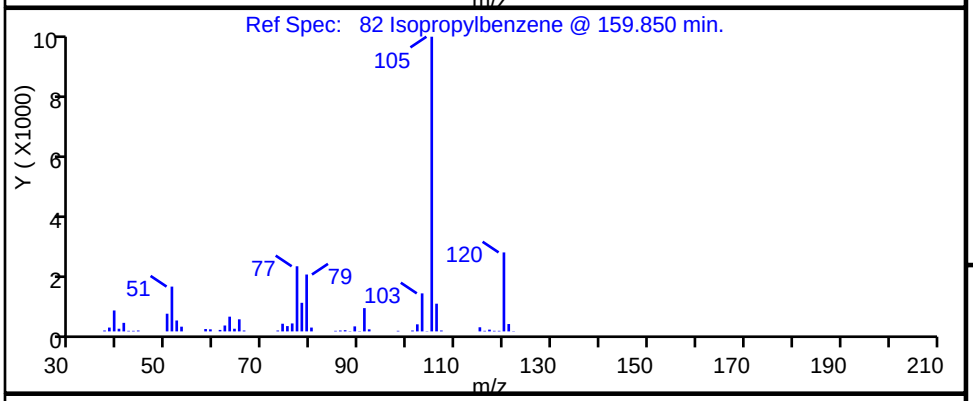
82 Isopropylbenzene, CAS: 98-82-8

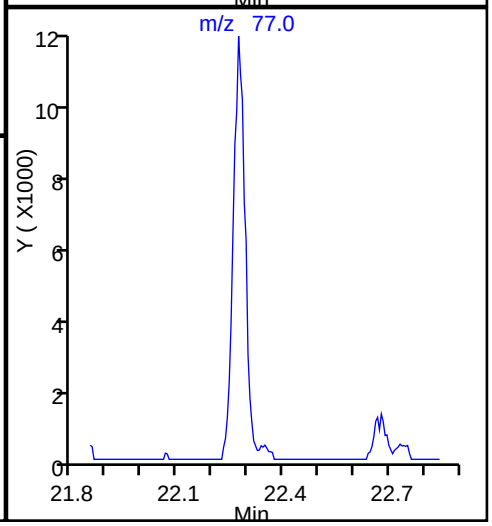


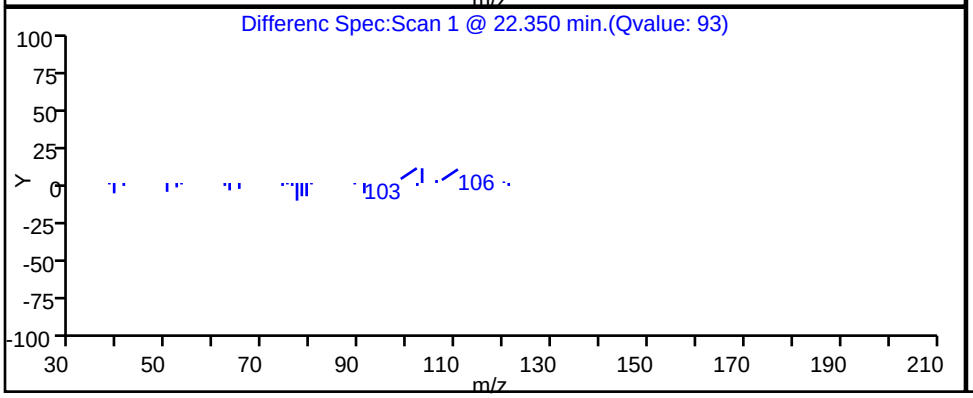












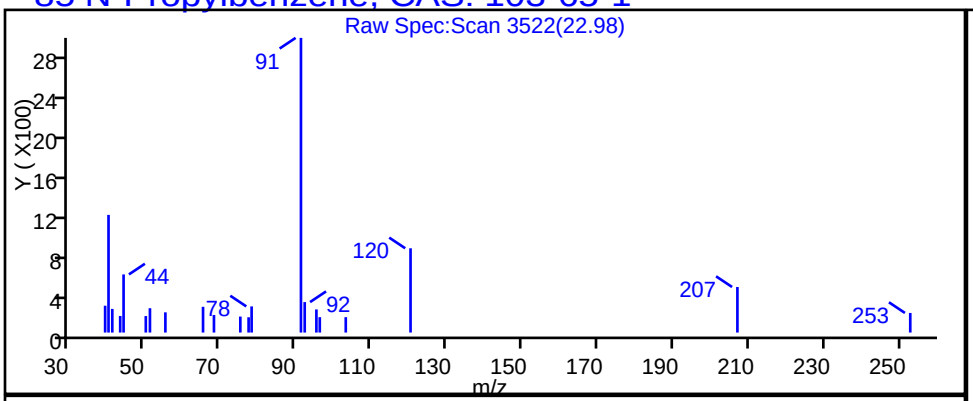
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

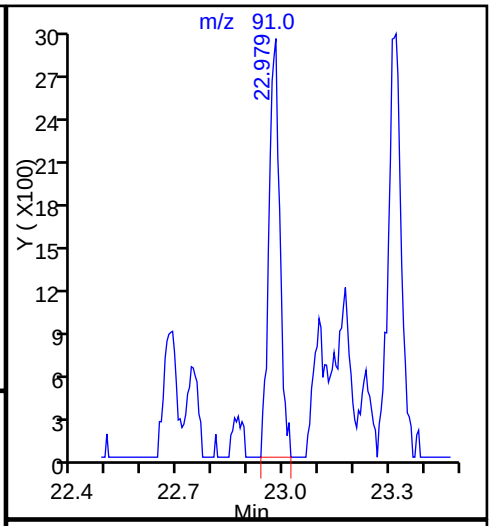
TestAmerica Burlington

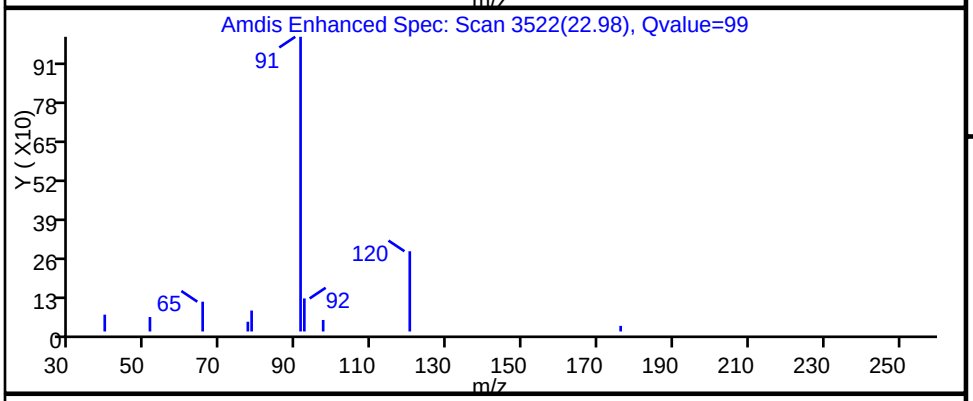
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

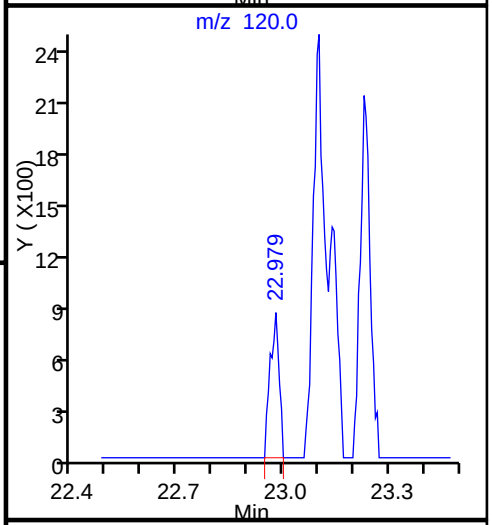
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

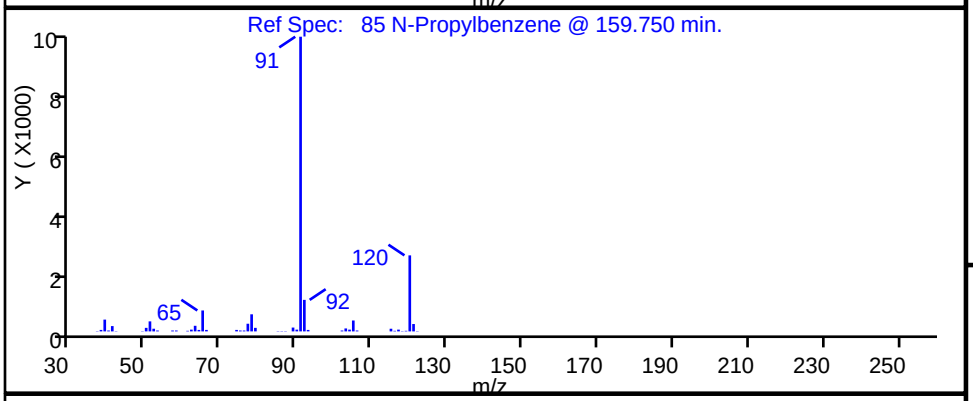
85 N-Propylbenzene, CAS: 103-65-1

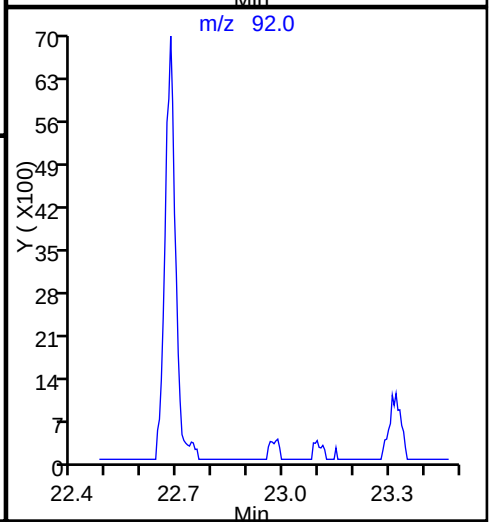


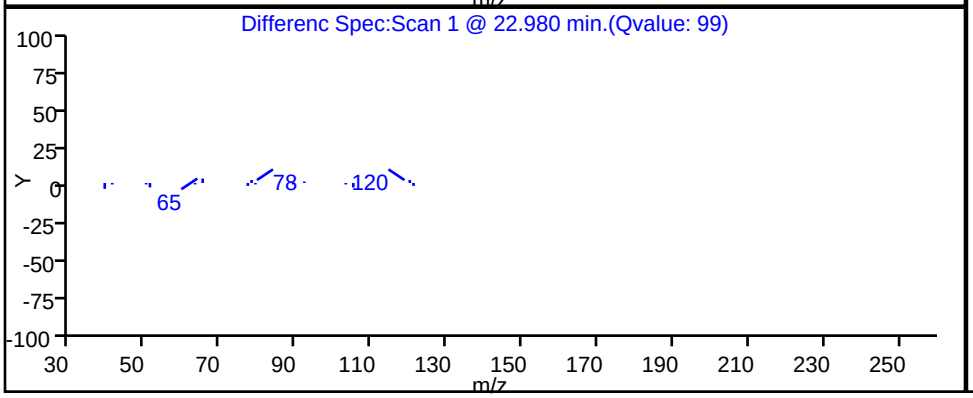










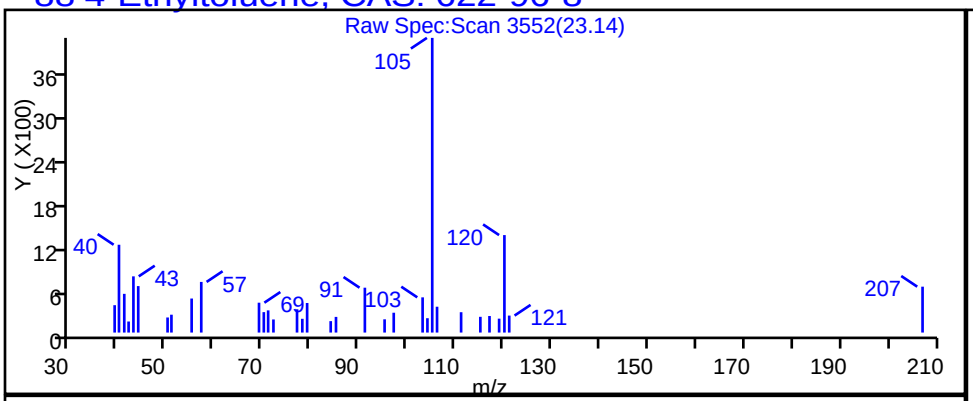


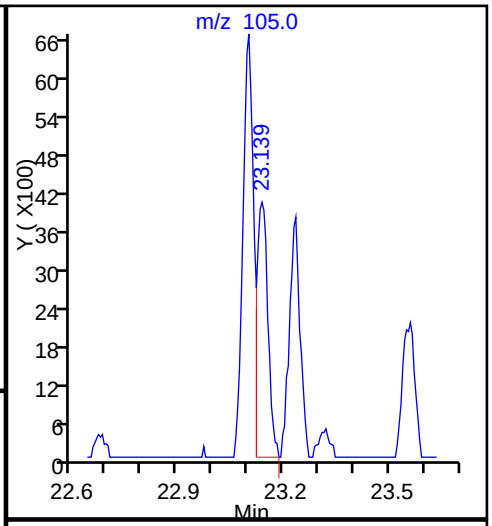
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

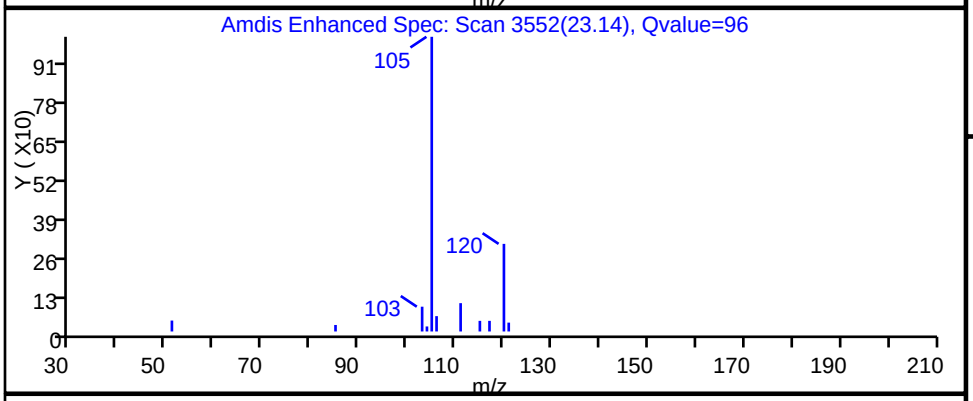
TestAmerica Burlington

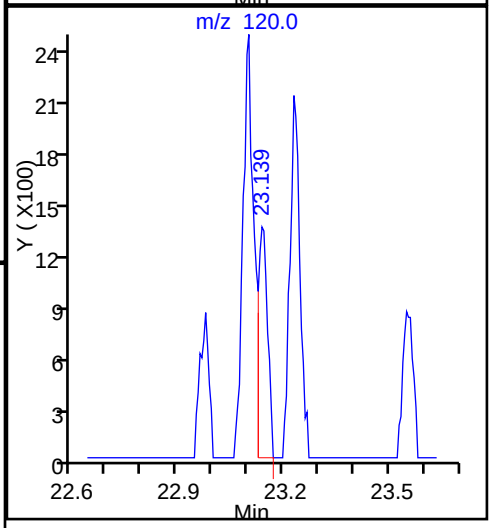
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

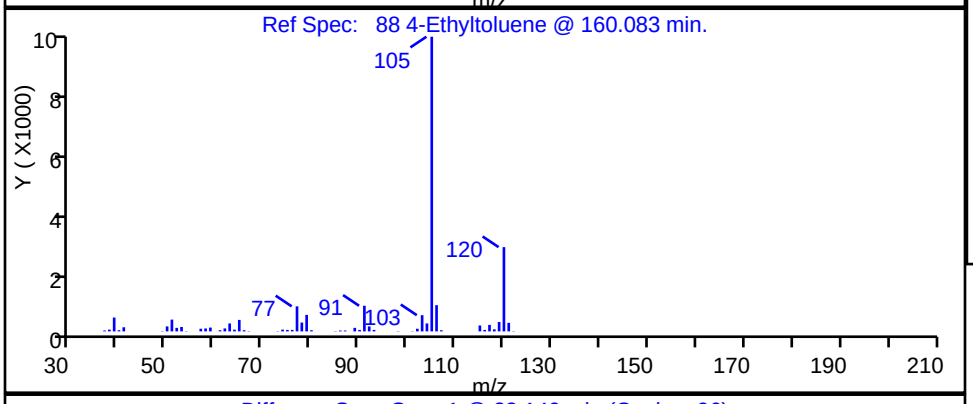
88 4-Ethyltoluene, CAS: 622-96-8

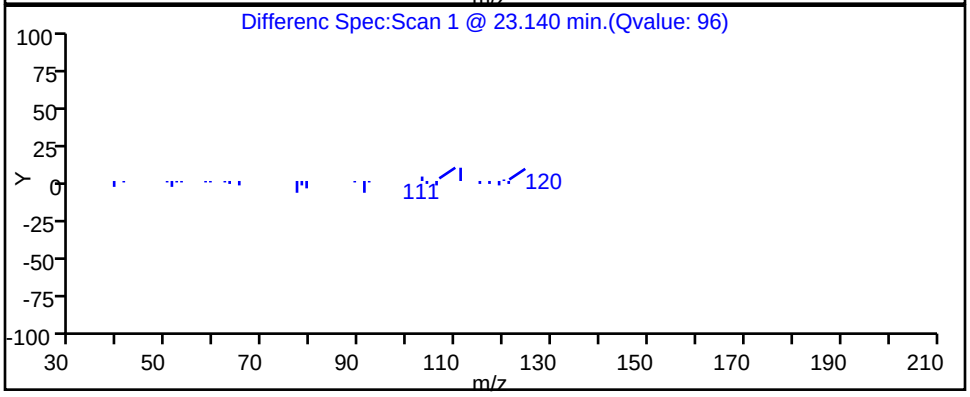












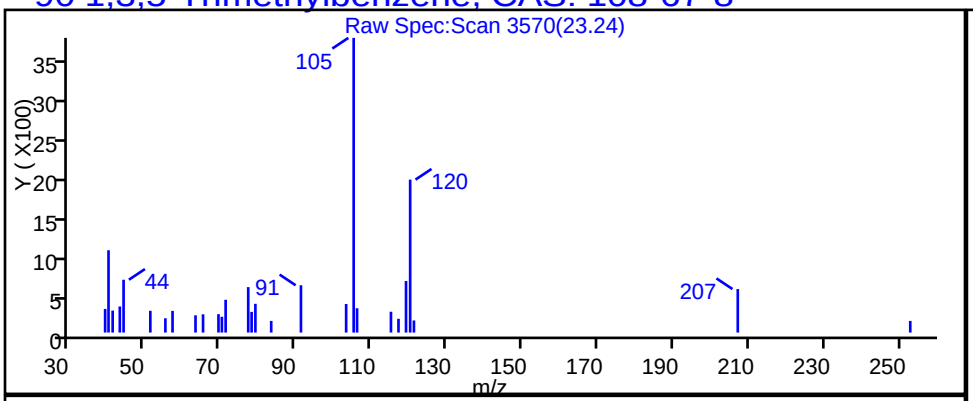
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

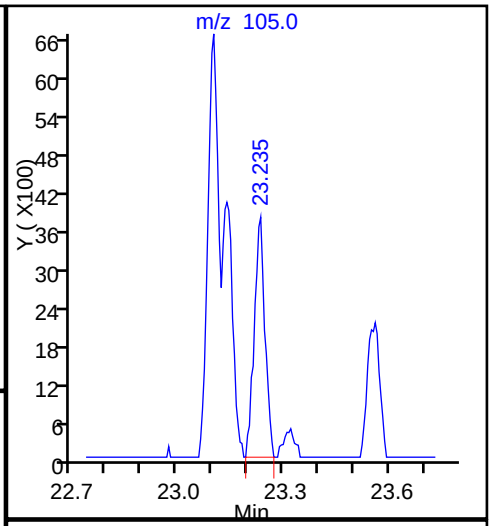
TestAmerica Burlington

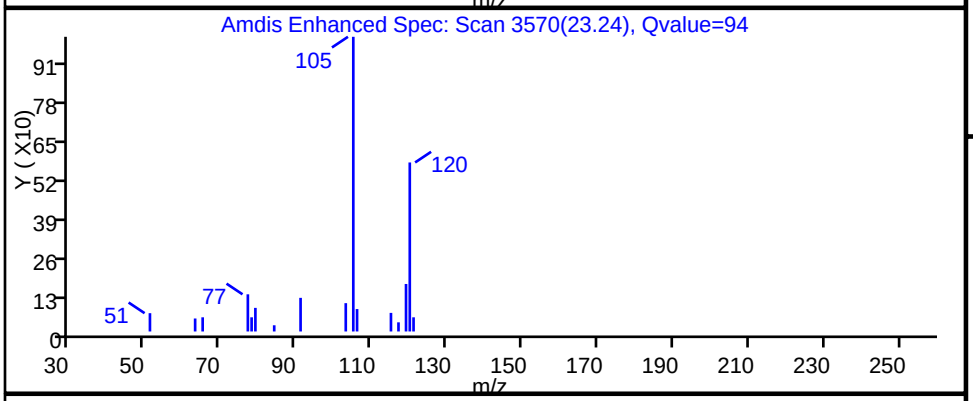
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

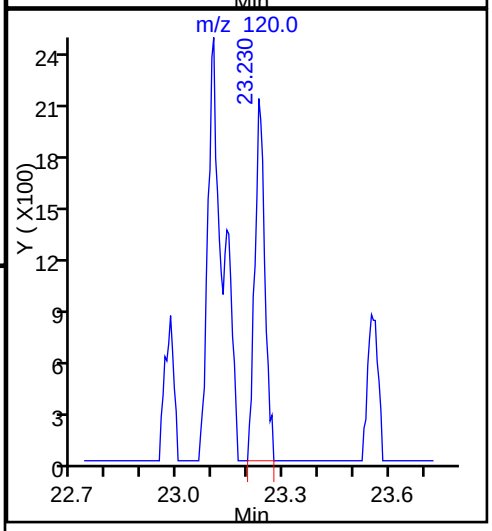
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

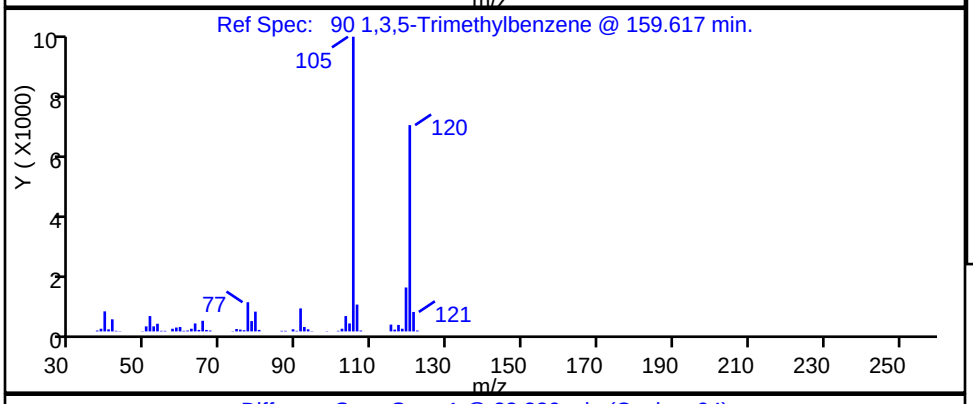
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

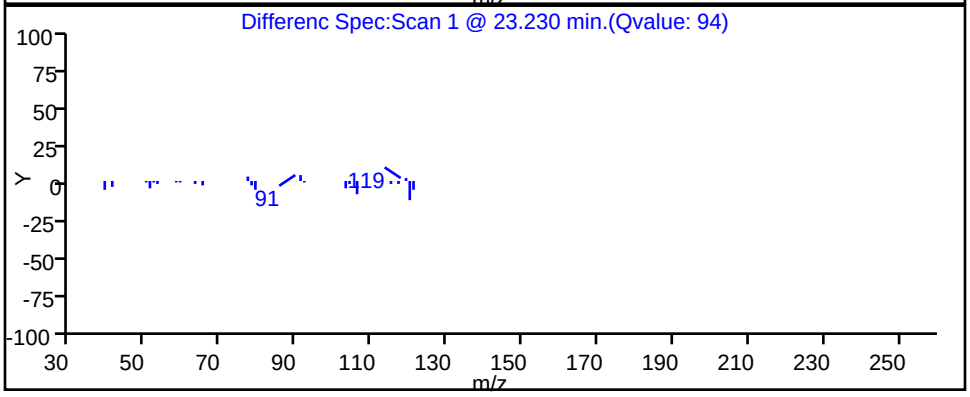










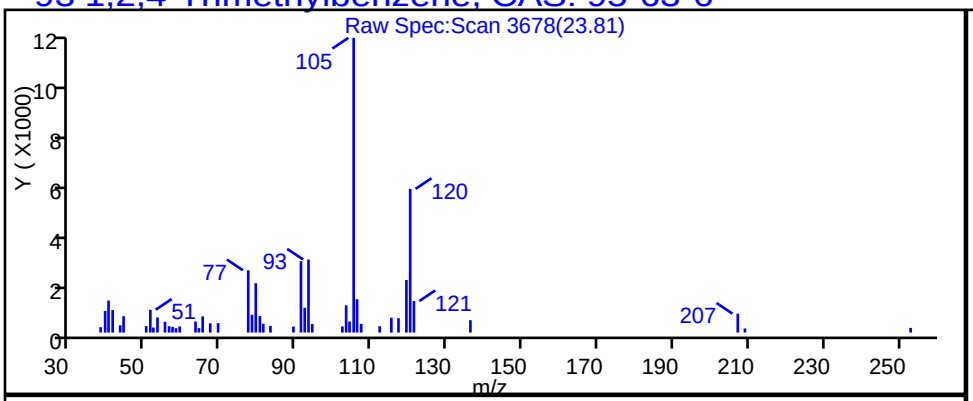


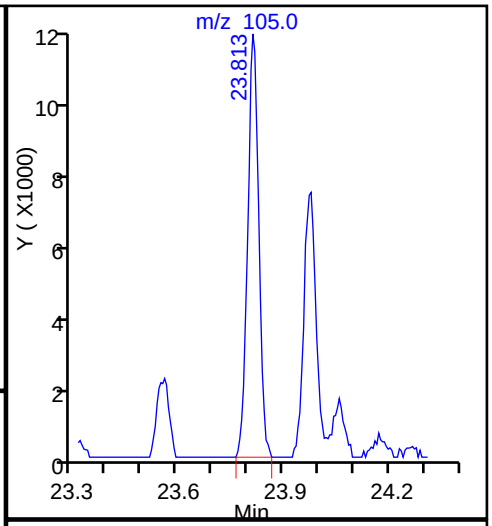
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

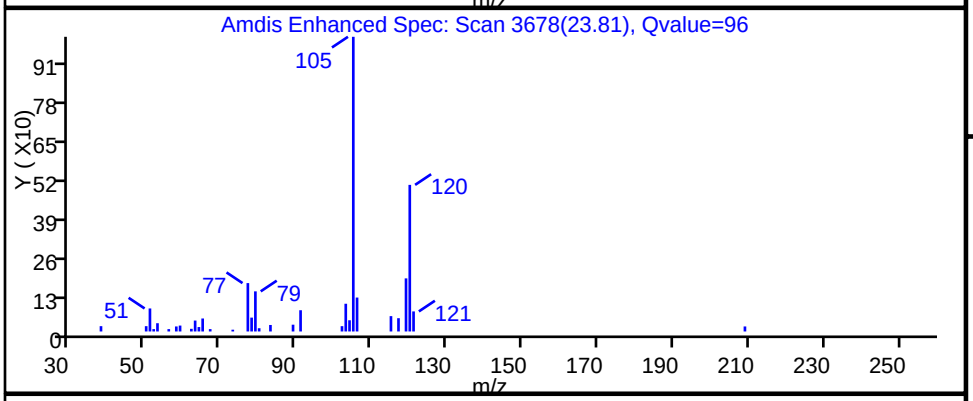
TestAmerica Burlington

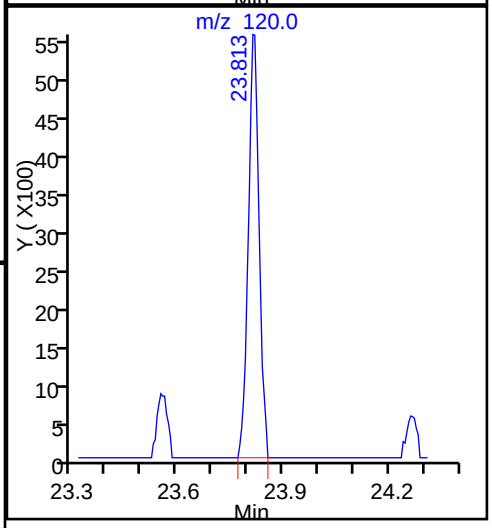
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

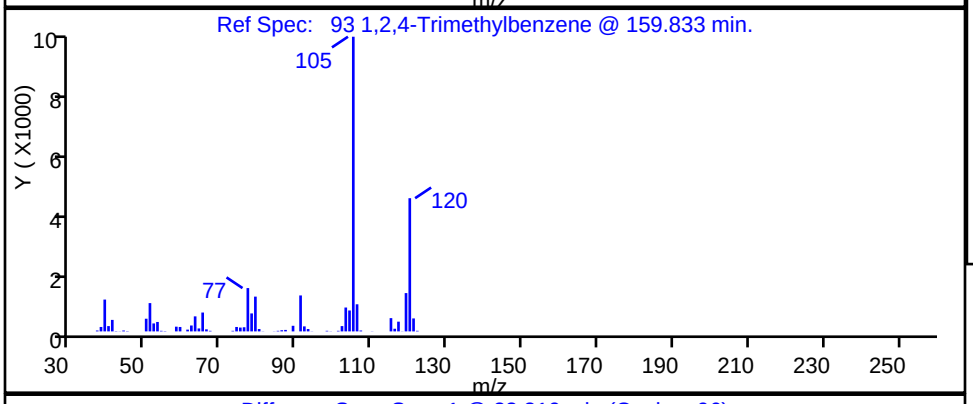
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

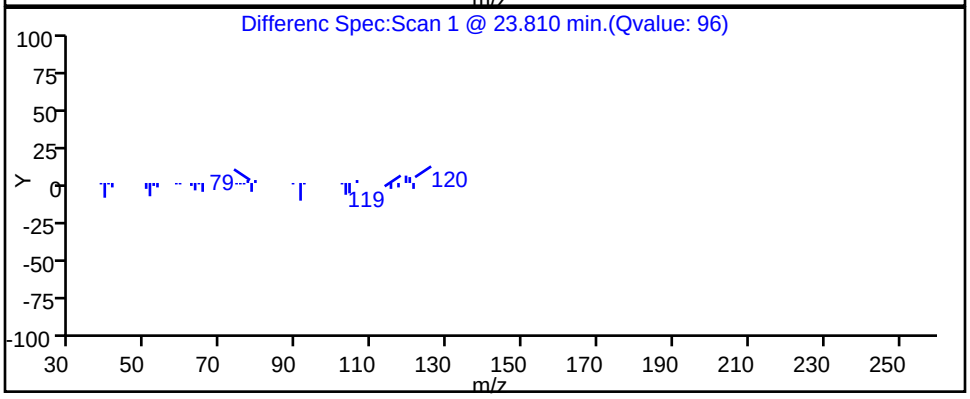












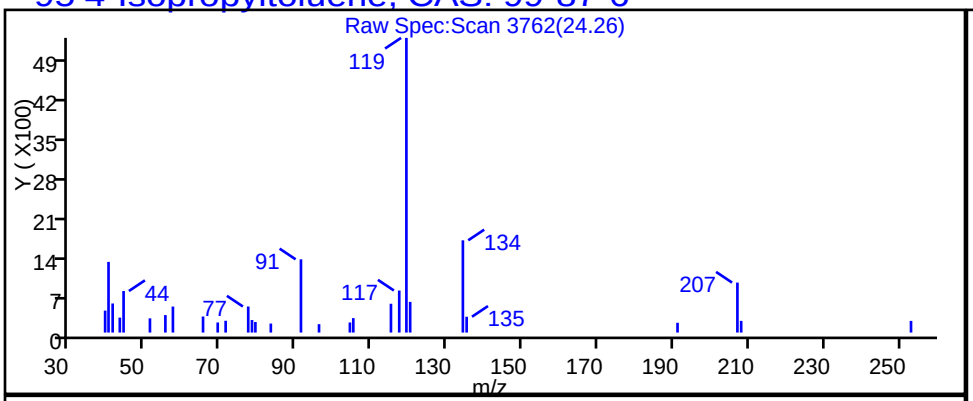
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

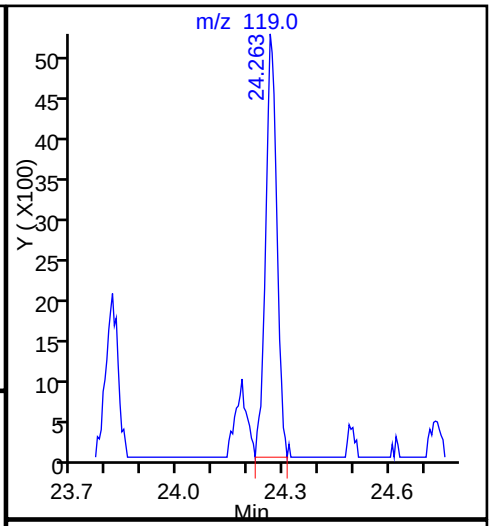
TestAmerica Burlington

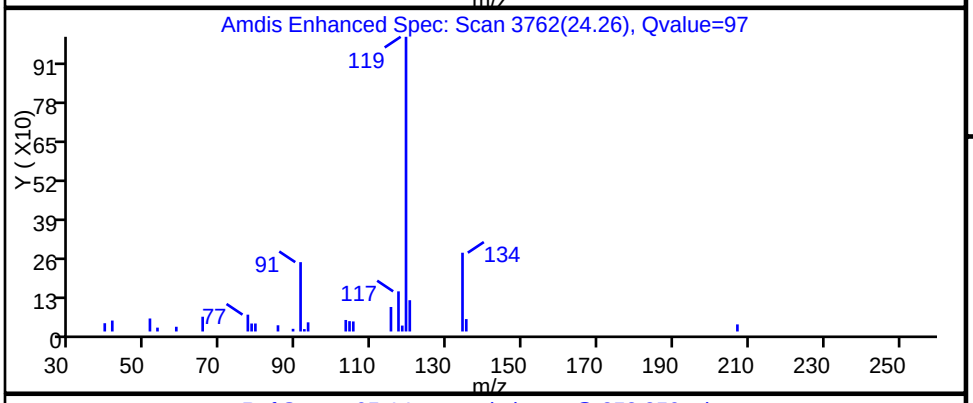
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

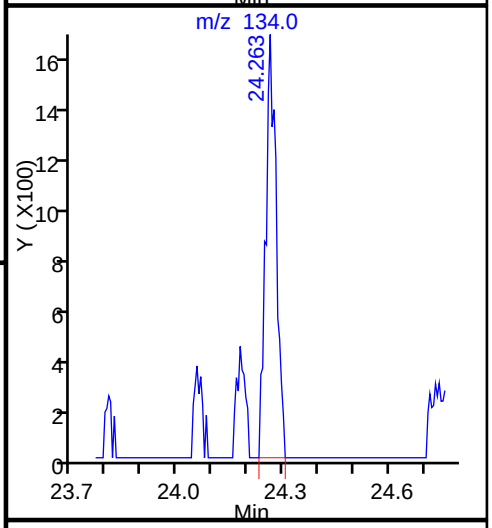
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

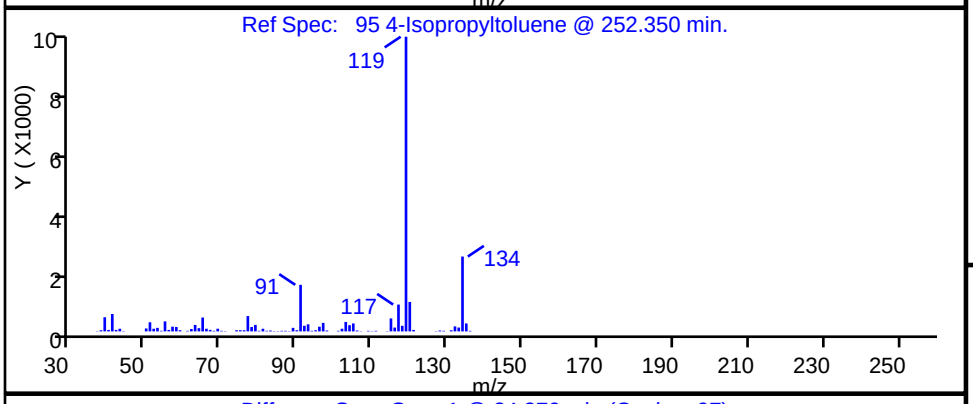
95 4-Isopropyltoluene, CAS: 99-87-6

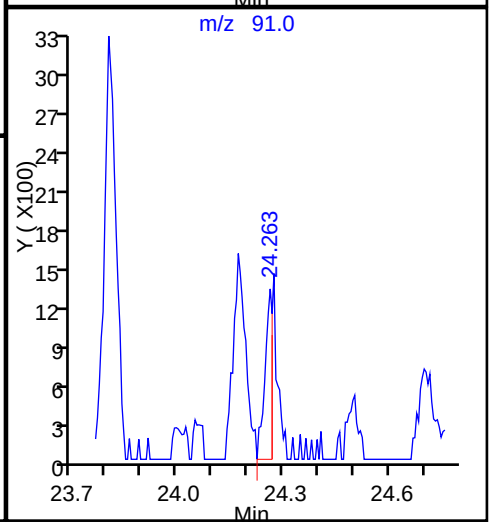


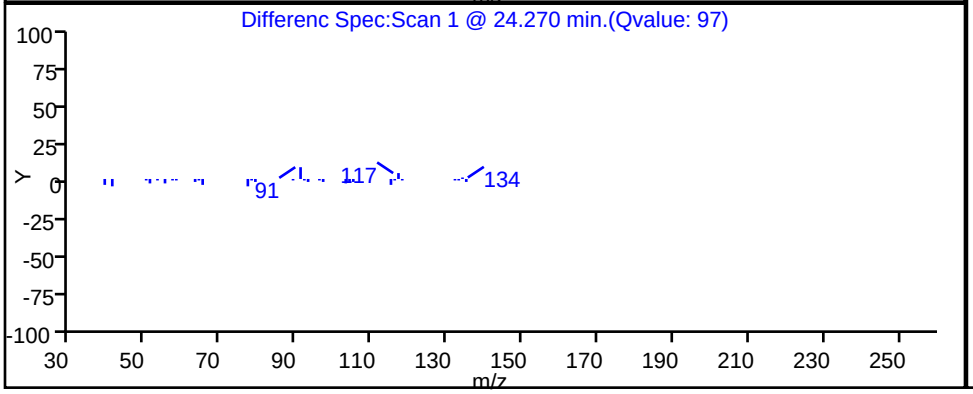












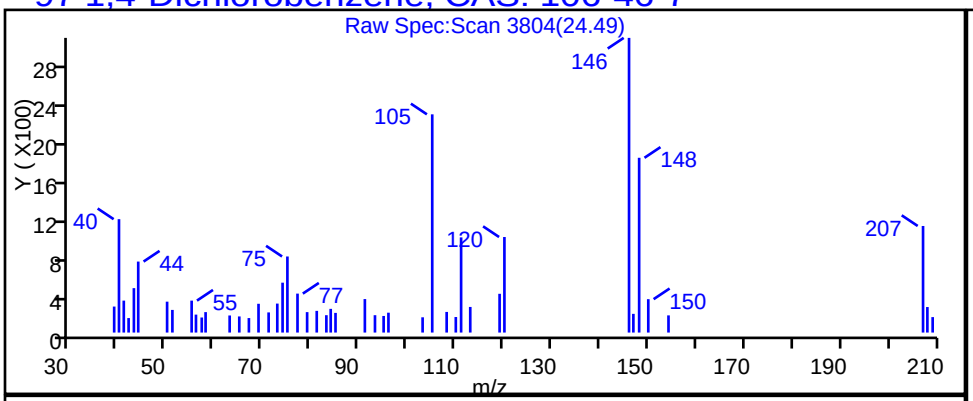
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

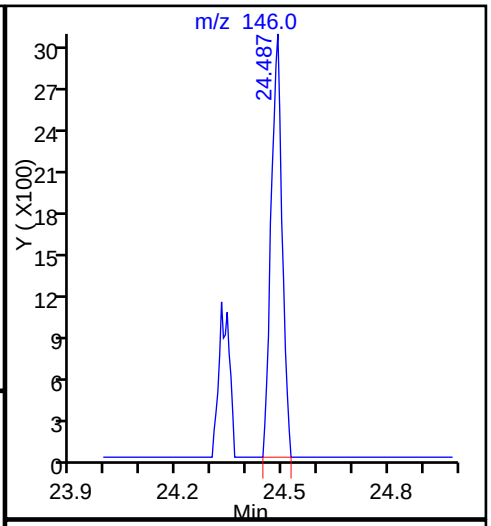
TestAmerica Burlington

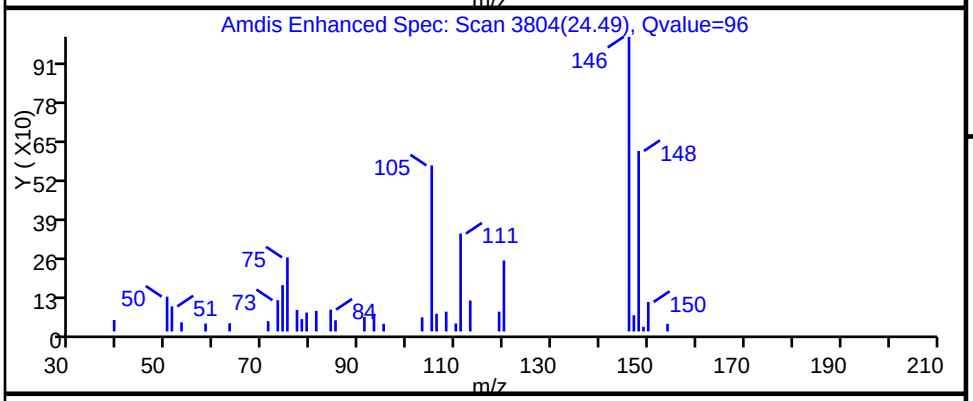
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

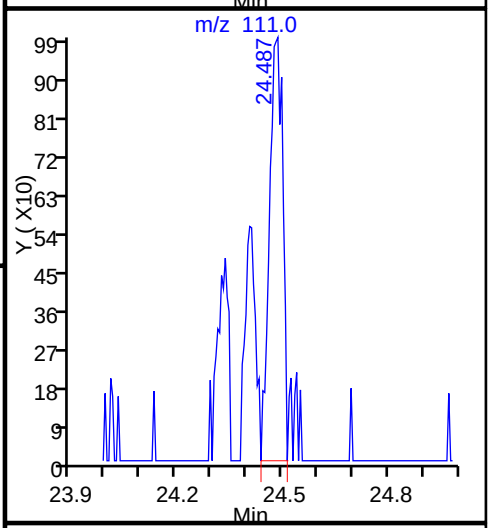
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

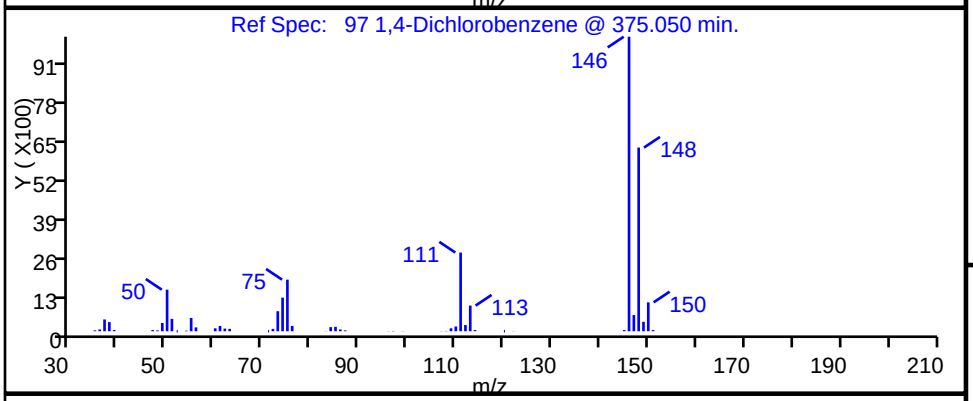
97 1,4-Dichlorobenzene, CAS: 106-46-7

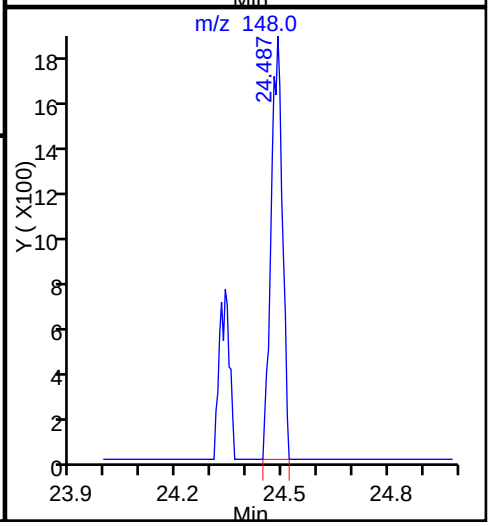


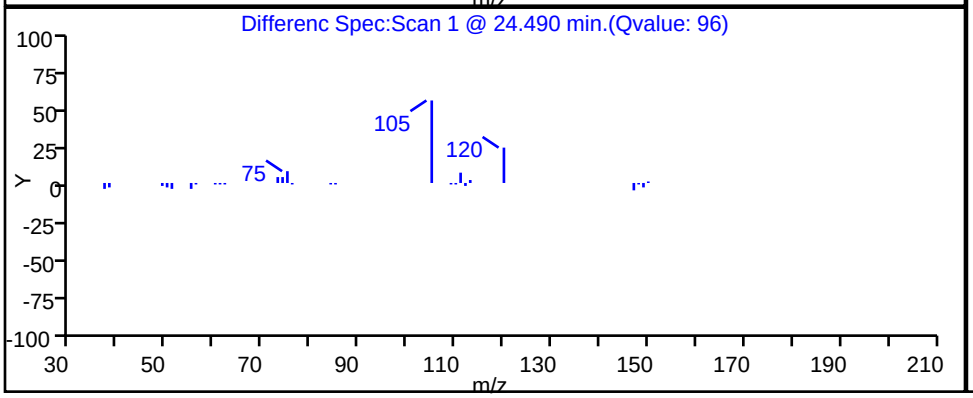












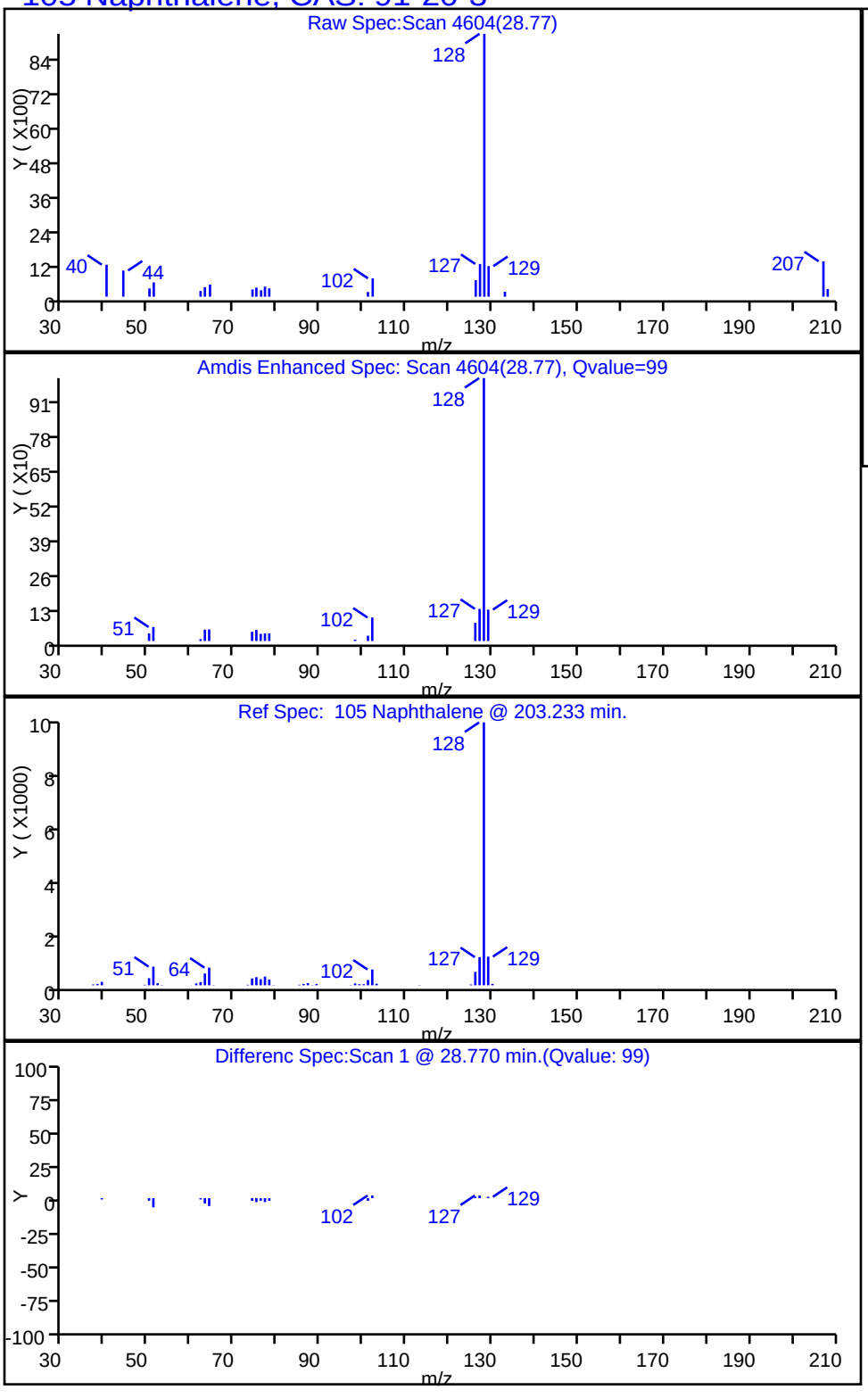
Report Date: 01-Oct-2015 12:53:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

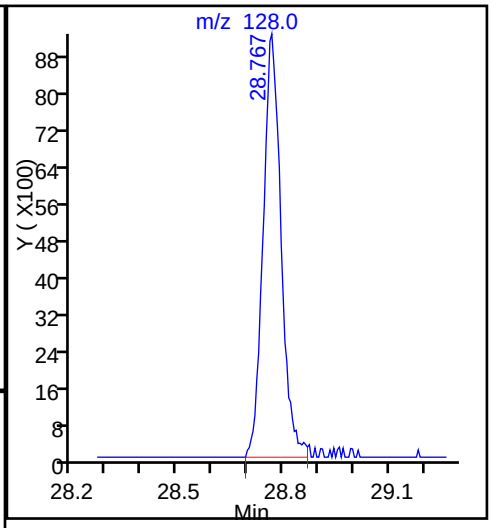
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d

Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

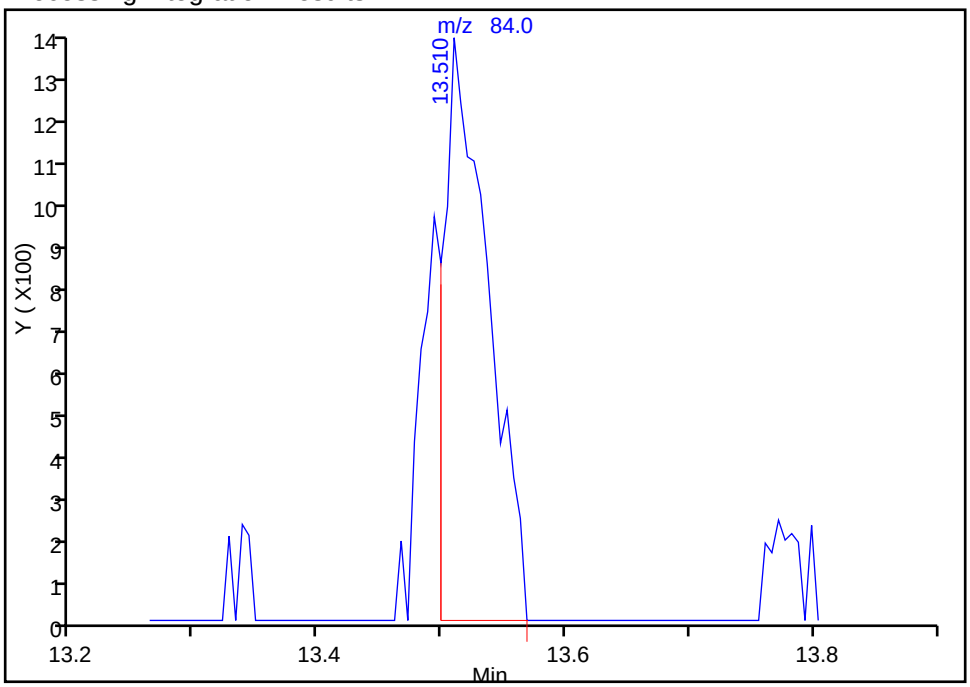
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

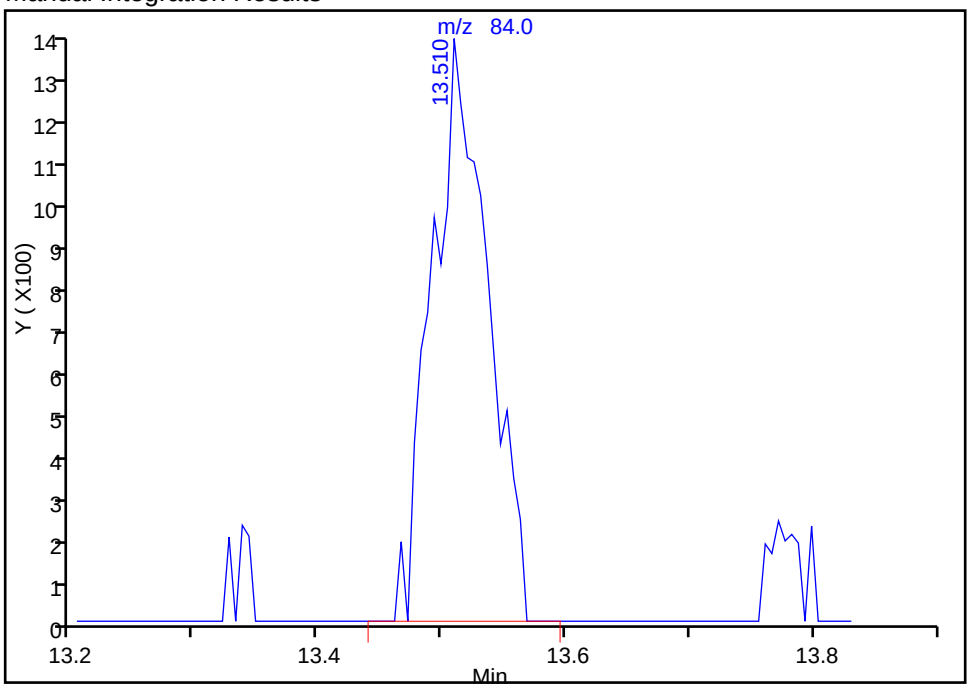
Processing Integration Results

RT: 13.51
Area: 3310
Amount: 0.149715
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 4228
Amount: 0.191237
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

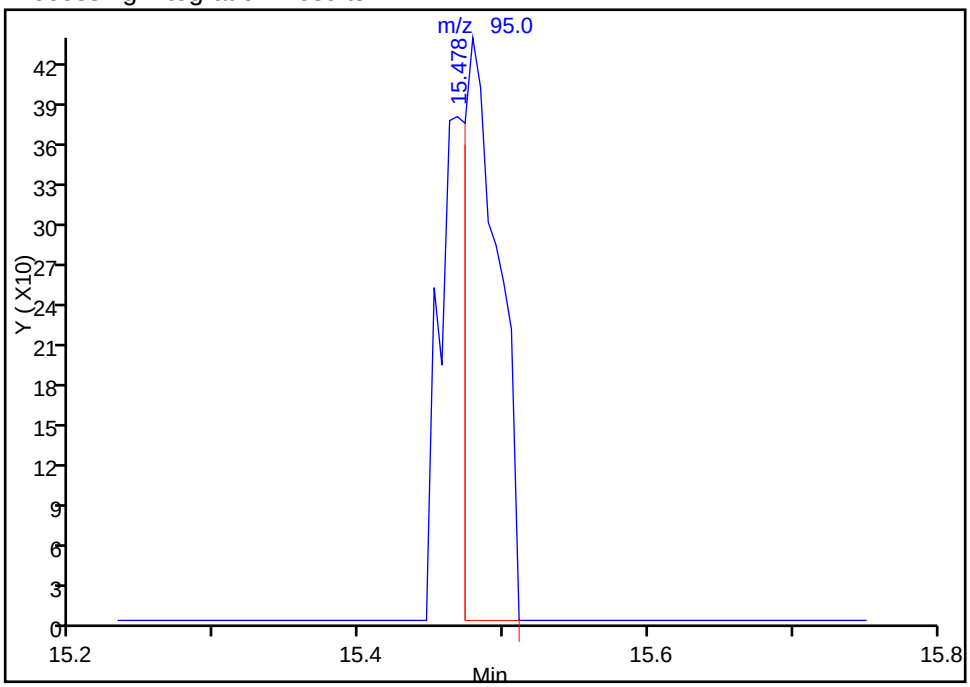
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

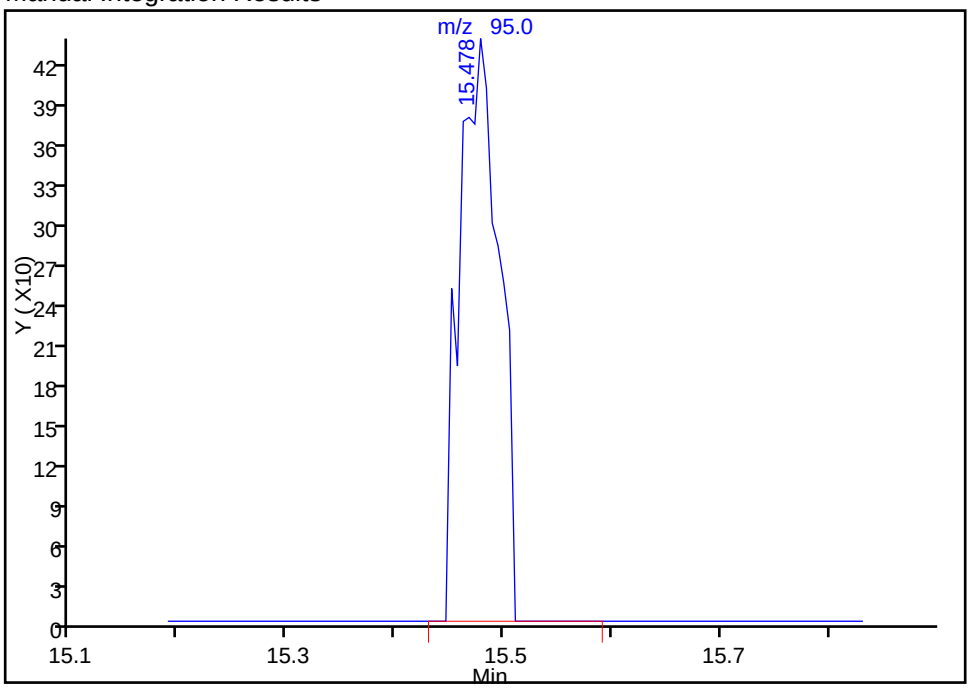
Processing Integration Results

RT: 15.48
Area: 724
Amount: 0.027299
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 1107
Amount: 0.041740
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

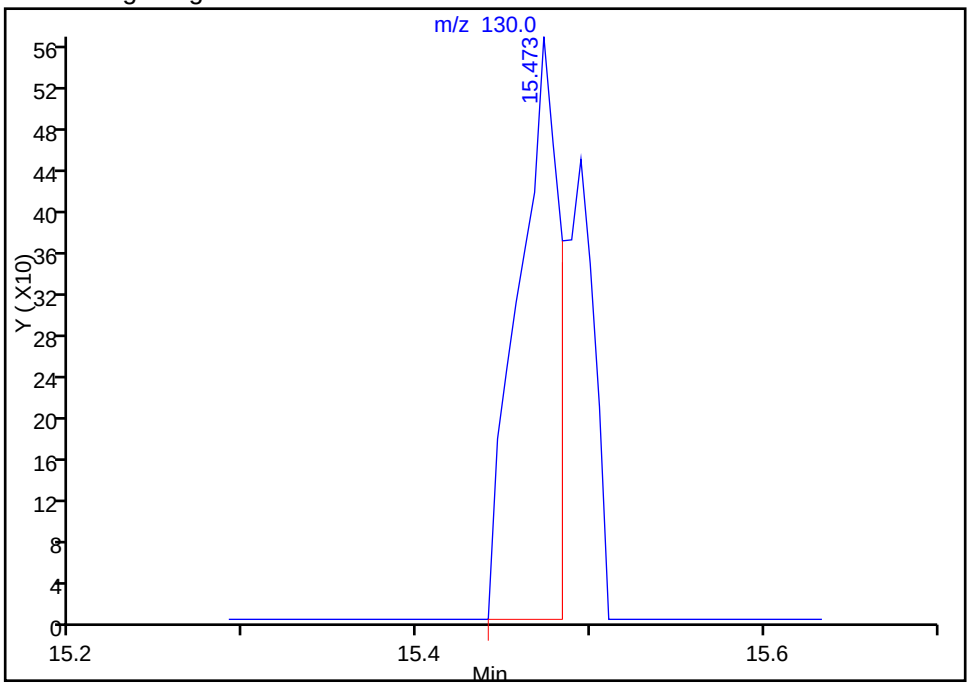
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

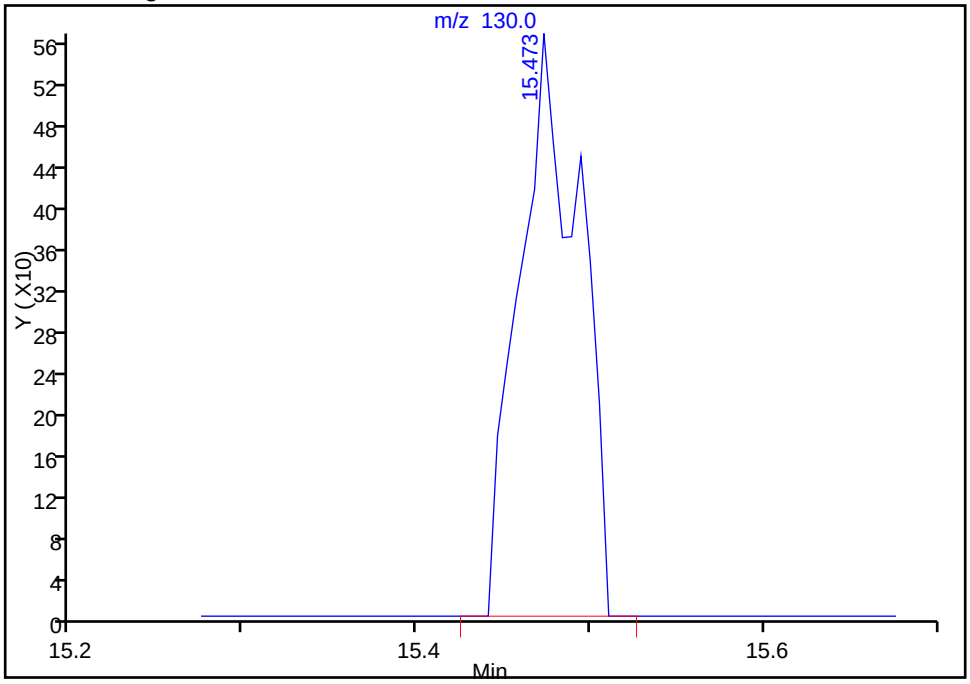
Processing Integration Results

RT: 15.47
Area: 929
Amount: 0.027299
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 1367
Amount: 0.041740
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

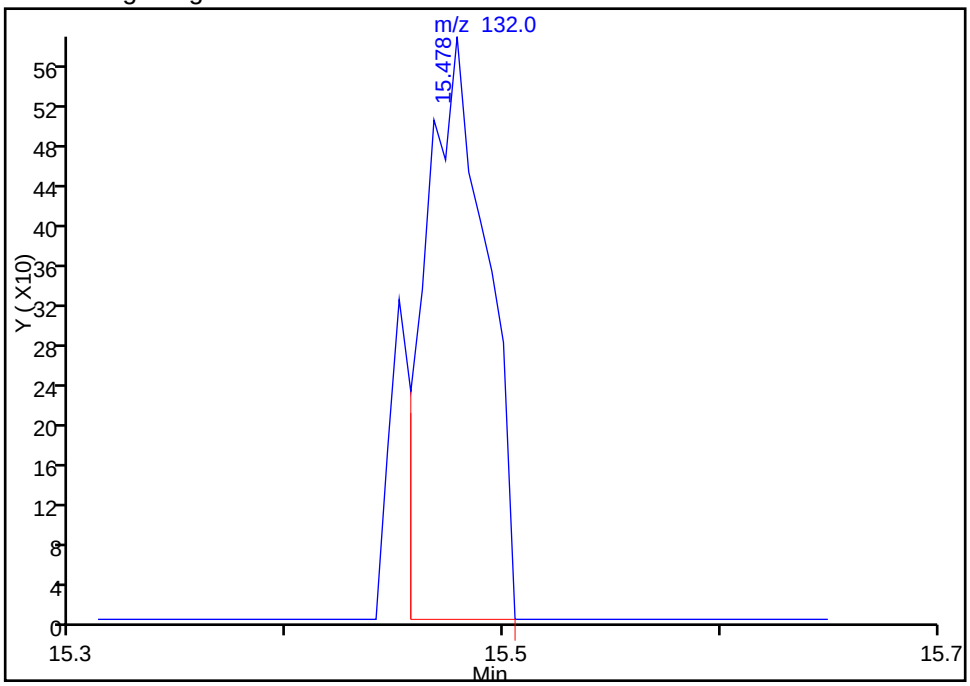
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

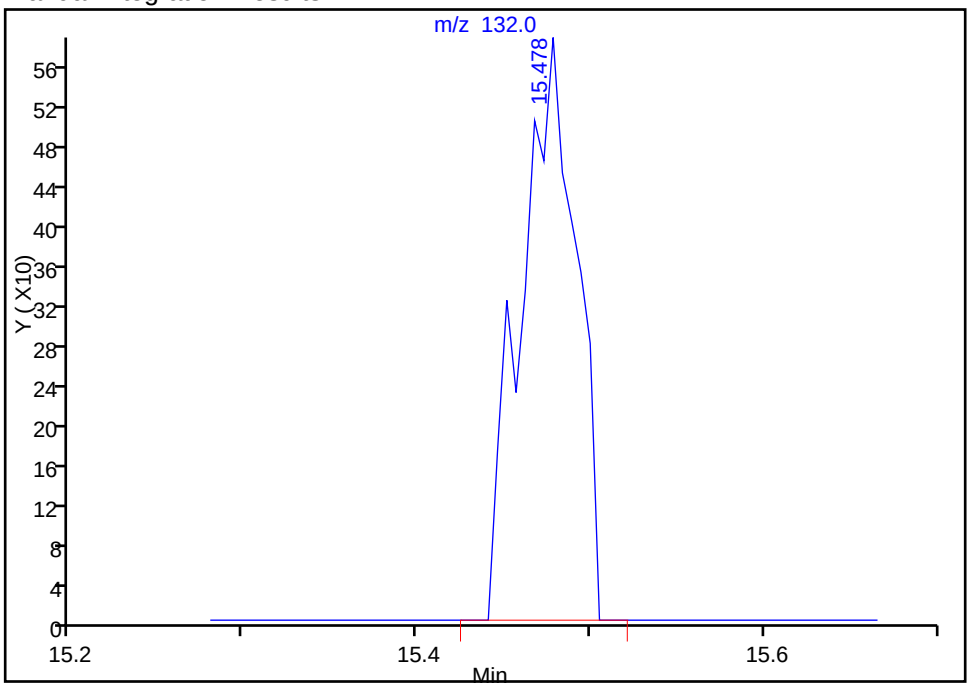
Processing Integration Results

RT: 15.48
Area: 1143
Amount: 0.027299
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 1299
Amount: 0.041740
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

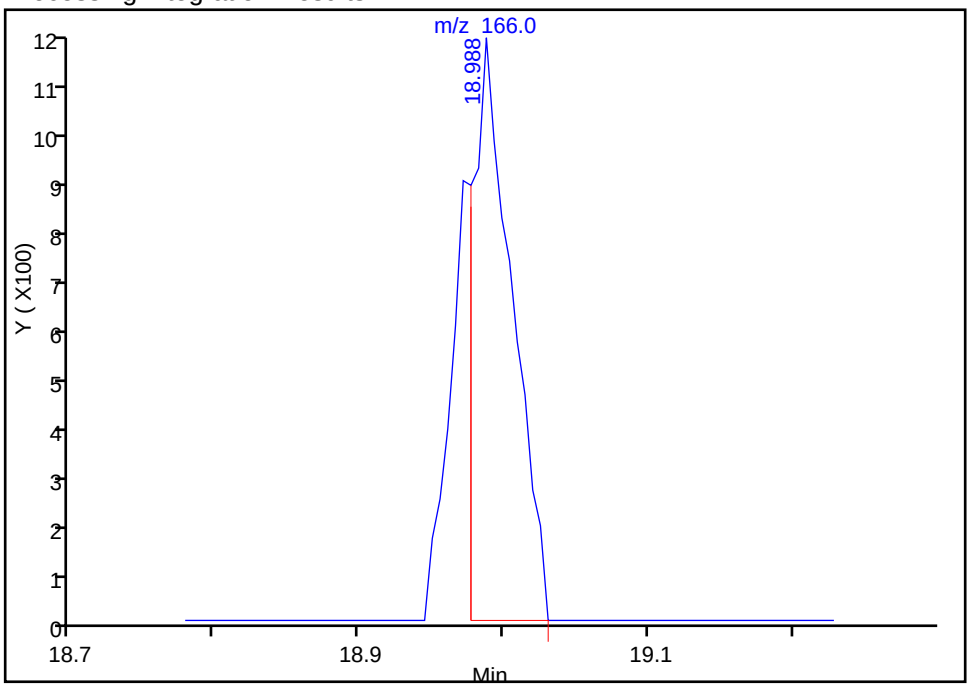
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

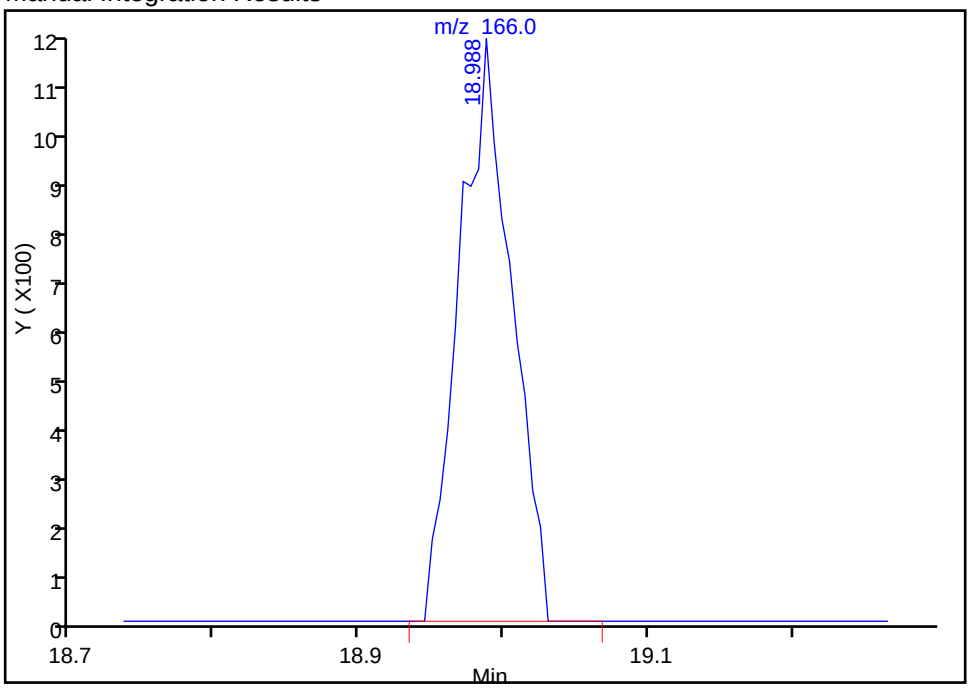
Processing Integration Results

RT: 18.99
Area: 2110
Amount: 0.040952
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 2802
Amount: 0.054382
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

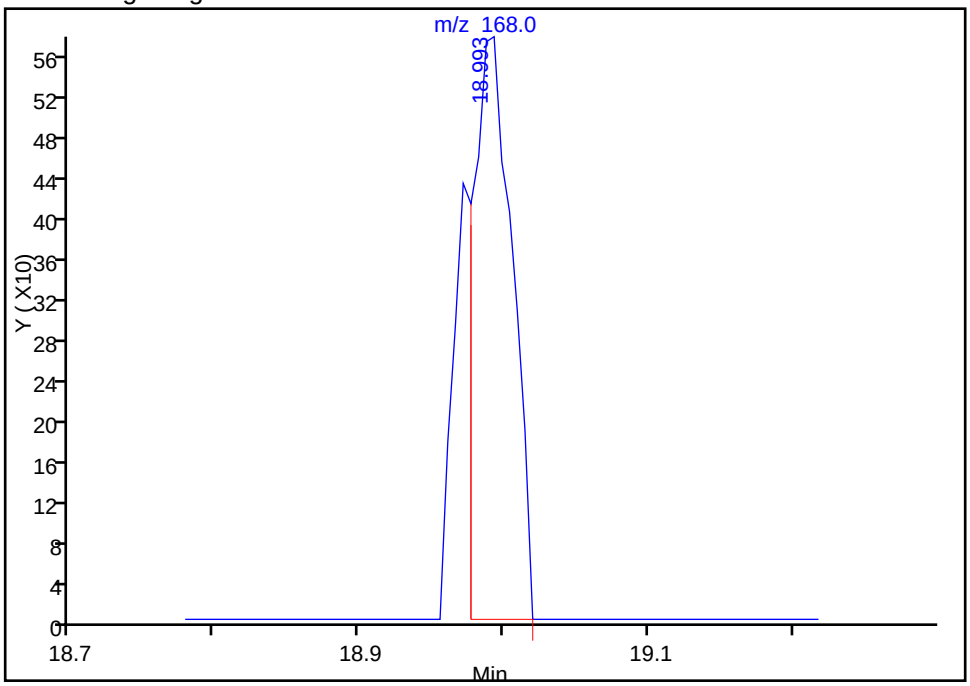
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

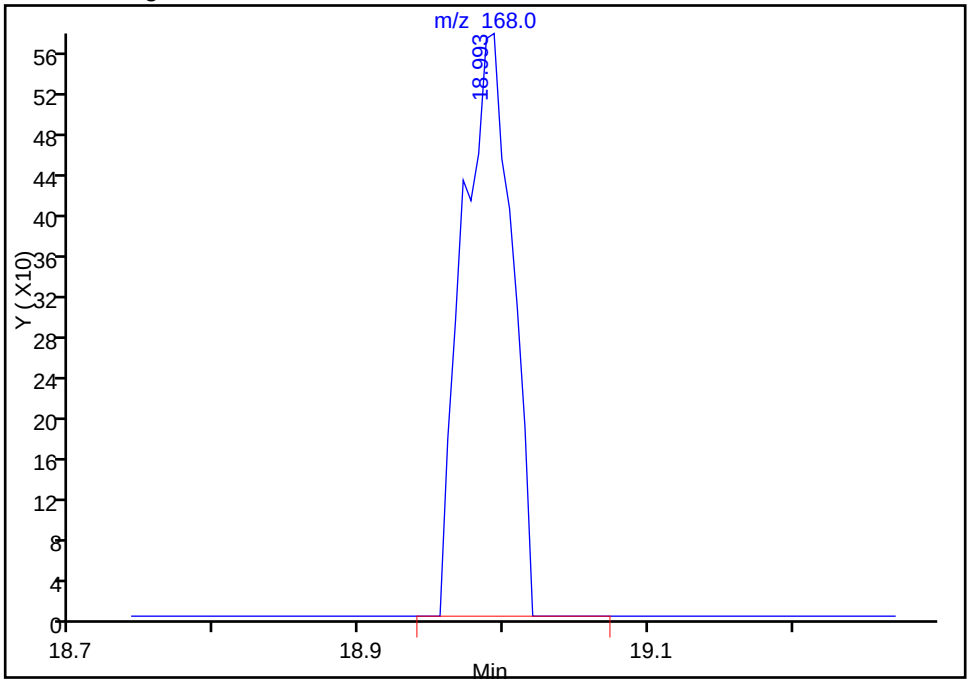
Processing Integration Results

RT: 18.99
Area: 1071
Amount: 0.040952
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 1358
Amount: 0.054382
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

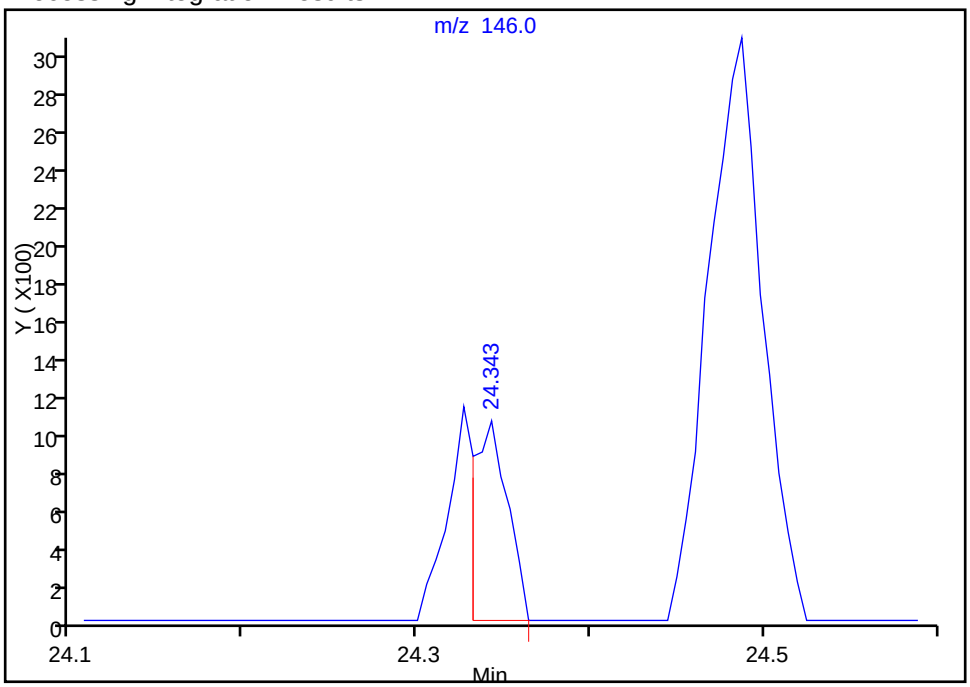
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,3-Dichlorobenzene, CAS: 541-73-1

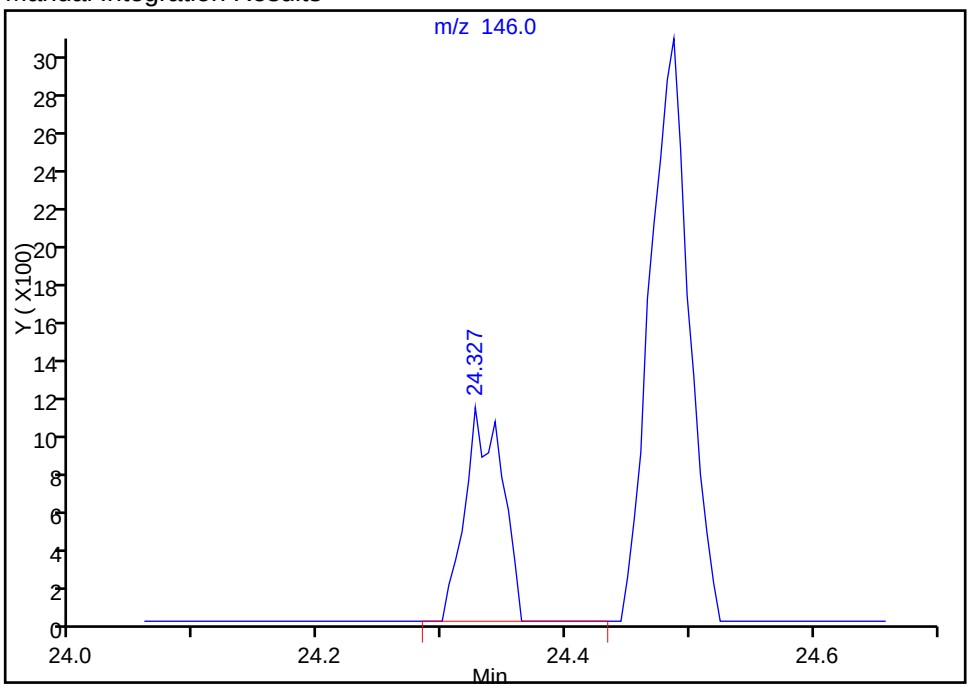
Processing Integration Results

RT: 24.34
Area: 1431
Amount: 0.015613
Amount Units: ppb v/v



Manual Integration Results

RT: 24.33
Area: 2347
Amount: 0.025608
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

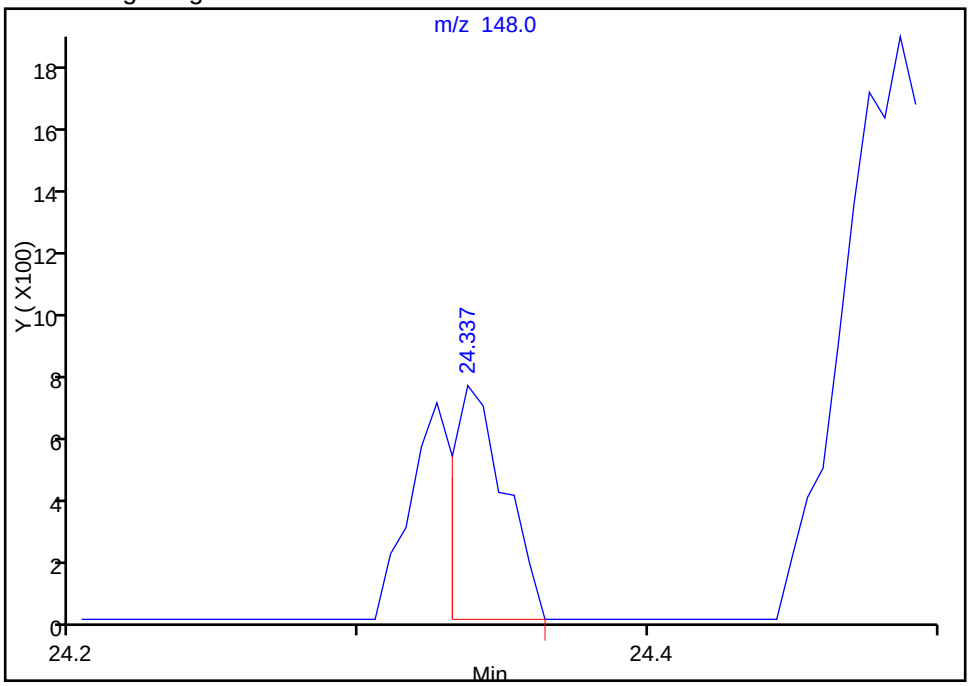
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_009.d				
Injection Date:	30-Sep-2015 17:43:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,3-Dichlorobenzene, CAS: 541-73-1

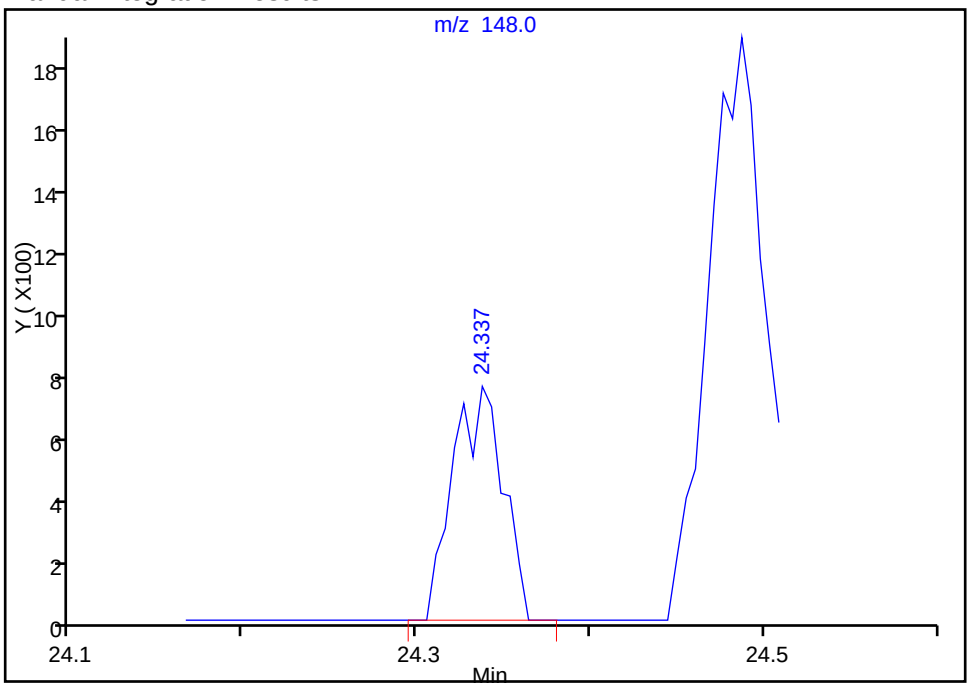
Processing Integration Results

RT: 24.34
Area: 921
Amount: 0.015613
Amount Units: ppb v/v



Manual Integration Results

RT: 24.34
Area: 1469
Amount: 0.025608
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:16:29
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 DL Lab Sample ID: 200-29972-16 DL

Matrix: Air Lab File ID: 16024_010.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 18:31

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.76	J D	1.5	0.24
75-45-6	Freon 22	86.47	0.73	J D	1.5	0.17
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.60	U	0.60	0.11
74-87-3	Chloromethane	50.49	0.67	J D	1.5	0.28
106-97-8	n-Butane	58.12	6.5	D	1.5	0.23
75-01-4	Vinyl chloride	62.50	0.12	U	0.12	0.096
106-99-0	1,3-Butadiene	54.09	0.60	U	0.60	0.27
74-83-9	Bromomethane	94.94	0.60	U	0.60	0.17
75-00-3	Chloroethane	64.52	1.5	U	1.5	0.25
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.60	U	0.60	0.13
75-69-4	Trichlorofluoromethane	137.37	72	D	0.60	0.11
76-13-1	Freon TF	187.38	0.60	U	0.60	0.22
75-35-4	1,1-Dichloroethene	96.94	0.80	D	0.60	0.11
67-64-1	Acetone	58.08	14	J D	15	2.6
67-63-0	Isopropyl alcohol	60.10	8.1	J D	15	2.9
75-15-0	Carbon disulfide	76.14	0.31	J D	1.5	0.13
107-05-1	3-Chloropropene	76.53	1.5	U	1.5	0.20
75-09-2	Methylene Chloride	84.93	1.5	U	1.5	0.54
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.5
1634-04-4	Methyl tert-butyl ether	88.15	0.60	U	0.60	0.27
156-60-5	trans-1,2-Dichloroethene	96.94	0.60	U	0.60	0.13
110-54-3	n-Hexane	86.17	0.69	D	0.60	0.16
75-34-3	1,1-Dichloroethane	98.96	0.23	J D	0.60	0.075
78-93-3	Methyl Ethyl Ketone	72.11	2.0	D	1.5	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	0.60	U	0.60	0.10
540-59-0	1,2-Dichloroethene, Total	96.94	1.2	U	1.2	0.10
67-66-3	Chloroform	119.38	0.60	U	0.60	0.25
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.2
71-55-6	1,1,1-Trichloroethane	133.41	0.56	J D	0.60	0.14
110-82-7	Cyclohexane	84.16	0.60	U	0.60	0.12
56-23-5	Carbon tetrachloride	153.81	0.11	J D	0.12	0.096
540-84-1	2,2,4-Trimethylpentane	114.23	0.31	J D	0.60	0.12
71-43-2	Benzene	78.11	0.63	D	0.60	0.13
107-06-2	1,2-Dichloroethane	98.96	0.62	D	0.60	0.12

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 DL | Lab Sample ID: 200-29972-16 DL

Matrix: Air | Lab File ID: 16024_010.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 18:31

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.60	U	0.60	0.12
79-01-6	Trichloroethene	131.39	0.12	U	0.12	0.12
80-62-6	Methyl methacrylate	100.12	1.5	U	1.5	0.12
78-87-5	1,2-Dichloropropane	112.99	0.60	U	0.60	0.081
123-91-1	1,4-Dioxane	88.11	15	U	15	1.7
75-27-4	Bromodichloromethane	163.83	0.60	U	0.60	0.090
10061-01-5	cis-1,3-Dichloropropene	110.97	0.60	U	0.60	0.069
108-10-1	methyl isobutyl ketone	100.16	1.5	U	1.5	0.15
108-88-3	Toluene	92.14	1.5	D	0.60	0.28
10061-02-6	trans-1,3-Dichloropropene	110.97	0.60	U	0.60	0.10
79-00-5	1,1,2-Trichloroethane	133.41	0.60	U	0.60	0.12
127-18-4	Tetrachloroethene	165.83	0.60	U	0.60	0.069
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.5	U	1.5	0.17
124-48-1	Dibromochloromethane	208.29	0.60	U	0.60	0.13
106-93-4	1,2-Dibromoethane	187.87	0.60	U	0.60	0.12
108-90-7	Chlorobenzene	112.56	0.60	U	0.60	0.15
100-41-4	Ethylbenzene	106.17	0.21	J D	0.60	0.099
179601-23-1	m,p-Xylene	106.17	0.68	J D	1.5	0.21
95-47-6	Xylene, o-	106.17	0.27	J D	0.60	0.11
1330-20-7	Xylene (total)	106.17	0.95	J D	2.1	0.11
100-42-5	Styrene	104.15	0.13	J D	0.60	0.13
75-25-2	Bromoform	252.75	0.60	U	0.60	0.17
98-82-8	Cumene	120.19	0.60	U	0.60	0.090
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.60	U	0.60	0.13
103-65-1	n-Propylbenzene	120.19	0.60	U	0.60	0.13
622-96-8	4-Ethyltoluene	120.20	0.60	U	0.60	0.13
108-67-8	1,3,5-Trimethylbenzene	120.20	0.60	U	0.60	0.12
95-49-8	2-Chlorotoluene	126.59	0.60	U	0.60	0.099
98-06-6	tert-Butylbenzene	134.22	0.60	U	0.60	0.13
95-63-6	1,2,4-Trimethylbenzene	120.20	0.21	J D	0.60	0.13
135-98-8	sec-Butylbenzene	134.22	0.60	U	0.60	0.13
99-87-6	4-Isopropyltoluene	134.22	0.60	U	0.60	0.11
541-73-1	1,3-Dichlorobenzene	147.00	0.60	U	0.60	0.16
106-46-7	1,4-Dichlorobenzene	147.00	0.60	U	0.60	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 DL Lab Sample ID: 200-29972-16 DL

Matrix: Air Lab File ID: 16024_010.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 18:31

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.60*	*U*	*0.60*	*0.16*
104-51-8	*n-Butylbenzene*	*134.22*	*0.60*	*U*	*0.60*	*0.14*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.60*	*U*	*0.60*	*0.16*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*1.5*	*U*	*1.5*	*0.20*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.60*	*U*	*0.60*	*0.25*
91-20-3	*Naphthalene*	*128.17*	*0.18*	*J D*	*1.5*	*0.17*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 DL Lab Sample ID: 200-29972-16 DL

Matrix: Air Lab File ID: 16024_010.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 18:31

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.8	J D	7.4	1.2
75-45-6	Freon 22	86.47	2.6	J D	5.3	0.60
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	4.2	U	4.2	0.79
74-87-3	Chloromethane	50.49	1.4	J D	3.1	0.57
106-97-8	n-Butane	58.12	16	D	3.6	0.55
75-01-4	Vinyl chloride	62.50	0.31	U	0.31	0.24
106-99-0	1,3-Butadiene	54.09	1.3	U	1.3	0.59
74-83-9	Bromomethane	94.94	2.3	U	2.3	0.65
75-00-3	Chloroethane	64.52	3.9	U	3.9	0.67
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.6	U	2.6	0.58
75-69-4	Trichlorofluoromethane	137.37	400	D	3.4	0.64
76-13-1	Freon TF	187.38	4.6	U	4.6	1.7
75-35-4	1,1-Dichloroethene	96.94	3.2	D	2.4	0.43
67-64-1	Acetone	58.08	34	J D	36	6.1
67-63-0	Isopropyl alcohol	60.10	20	J D	37	7.2
75-15-0	Carbon disulfide	76.14	0.98	J D	4.7	0.40
107-05-1	3-Chloropropene	76.53	4.7	U	4.7	0.64
75-09-2	Methylene Chloride	84.93	5.2	U	5.2	1.9
75-65-0	tert-Butyl alcohol	74.12	45	U	45	7.7
1634-04-4	Methyl tert-butyl ether	88.15	2.2	U	2.2	0.96
156-60-5	trans-1,2-Dichloroethene	96.94	2.4	U	2.4	0.51
110-54-3	n-Hexane	86.17	2.4	D	2.1	0.57
75-34-3	1,1-Dichloroethane	98.96	0.95	J D	2.4	0.30
78-93-3	Methyl Ethyl Ketone	72.11	5.9	D	4.4	0.46
156-59-2	cis-1,2-Dichloroethene	96.94	2.4	U	2.4	0.41
540-59-0	1,2-Dichloroethene, Total	96.94	4.7	U	4.7	0.41
67-66-3	Chloroform	119.38	2.9	U	2.9	1.2
109-99-9	Tetrahydrofuran	72.11	44	U	44	12
71-55-6	1,1,1-Trichloroethane	133.41	3.1	J D	3.3	0.75
110-82-7	Cyclohexane	84.16	2.1	U	2.1	0.40
56-23-5	Carbon tetrachloride	153.81	0.67	J D	0.75	0.60
540-84-1	2,2,4-Trimethylpentane	114.23	1.5	J D	2.8	0.54
71-43-2	Benzene	78.11	2.0	D	1.9	0.40
107-06-2	1,2-Dichloroethane	98.96	2.5	D	2.4	0.50

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 DL | Lab Sample ID: 200-29972-16 DL

Matrix: Air | Lab File ID: 16024_010.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:09

Sample wt/vol: 67(mL) | Date Analyzed: 09/30/2015 18:31

Soil Aliquot Vol: | Dilution Factor: 2.99

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	2.5	U	2.5	0.49
79-01-6	Trichloroethene	131.39	0.64	U	0.64	0.63
80-62-6	Methyl methacrylate	100.12	6.1	U	6.1	0.49
78-87-5	1,2-Dichloropropane	112.99	2.8	U	2.8	0.37
123-91-1	1,4-Dioxane	88.11	54	U	54	6.0
75-27-4	Bromodichloromethane	163.83	4.0	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	110.97	2.7	U	2.7	0.31
108-10-1	methyl isobutyl ketone	100.16	6.1	U	6.1	0.61
108-88-3	Toluene	92.14	5.6	D	2.3	1.0
10061-02-6	trans-1,3-Dichloropropene	110.97	2.7	U	2.7	0.46
79-00-5	1,1,2-Trichloroethane	133.41	3.3	U	3.3	0.64
127-18-4	Tetrachloroethene	165.83	4.1	U	4.1	0.47
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	6.1	U	6.1	0.70
124-48-1	Dibromochloromethane	208.29	5.1	U	5.1	1.1
106-93-4	1,2-Dibromoethane	187.87	4.6	U	4.6	0.90
108-90-7	Chlorobenzene	112.56	2.8	U	2.8	0.67
100-41-4	Ethylbenzene	106.17	0.93	J D	2.6	0.43
179601-23-1	m,p-Xylene	106.17	3.0	J D	6.5	0.92
95-47-6	Xylene, o-	106.17	1.2	J D	2.6	0.48
1330-20-7	Xylene (total)	106.17	4.1	J D	9.1	0.48
100-42-5	Styrene	104.15	0.56	J D	2.5	0.55
75-25-2	Bromoform	252.75	6.2	U	6.2	1.7
98-82-8	Cumene	120.19	2.9	U	2.9	0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	4.1	U	4.1	0.90
103-65-1	n-Propylbenzene	120.19	2.9	U	2.9	0.63
622-96-8	4-Ethyltoluene	120.20	2.9	U	2.9	0.65
108-67-8	1,3,5-Trimethylbenzene	120.20	2.9	U	2.9	0.57
95-49-8	2-Chlorotoluene	126.59	3.1	U	3.1	0.51
98-06-6	tert-Butylbenzene	134.22	3.3	U	3.3	0.72
95-63-6	1,2,4-Trimethylbenzene	120.20	1.0	J D	2.9	0.63
135-98-8	sec-Butylbenzene	134.22	3.3	U	3.3	0.72
99-87-6	4-Isopropyltoluene	134.22	3.3	U	3.3	0.61
541-73-1	1,3-Dichlorobenzene	147.00	3.6	U	3.6	0.99
106-46-7	1,4-Dichlorobenzene	147.00	3.6	U	3.6	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA08-092315 DL Lab Sample ID: 200-29972-16 DL

Matrix: Air Lab File ID: 16024_010.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:09

Sample wt/vol: 67(mL) Date Analyzed: 09/30/2015 18:31

Soil Aliquot Vol: Dilution Factor: 2.99

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*3.1*	*U*	*3.1*	*0.82*
104-51-8	*n-Butylbenzene*	*134.22*	*3.3*	*U*	*3.3*	*0.77*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*3.6*	*U*	*3.6*	*0.99*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*11*	*U*	*11*	*1.5*
87-68-3	*Hexachlorobutadiene*	*260.76*	*6.4*	*U*	*6.4*	*2.6*
91-20-3	*Naphthalene*	*128.17*	*0.94*	*J D*	*7.8*	*0.89*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d
Lims ID: 200-29972-A-16 Lab Sample ID: 200-29972-16
Client ID: FR-IA08-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 18:31:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 2.9900
Sample Info: 200-0016024-010
Misc. Info.: 29972-16
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:19:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.415	4.431	-0.016	99	11009	0.2553	
3 Chlorodifluoromethane	51	4.495	4.501	-0.006	95	4254	0.2447	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50	4.998	5.009	-0.011	96	1897	0.2252	
6 Butane	43	5.282	5.292	-0.010	95	26816	2.18	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64		6.678				ND	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.293	7.299	-0.006	98	1173104	24.0	
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.657	8.668	-0.011	94	3749	0.2668	
22 Acetone	43	8.946	8.941	0.005	97	73319	4.83	
23 Carbon disulfide	76	9.165	9.171	-0.006	64	3552	0.1050	M
24 Isopropyl alcohol	45	9.219	9.219	0.000	99	32739	2.70	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.930	9.931	-0.001	79	1721	0.1544	M
28 2-Methyl-2-propanol	59		10.113				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57	10.861	10.856	0.005	89	3414	0.2309	
34 1,1-Dichloroethane	63	11.423	11.429	-0.006	92	1706	0.0781	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.654	0.005	97	4725	0.6724	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	70	135818	10.0	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.510				ND	
44 1,1,1-Trichloroethane	97	13.520	13.531	-0.011	94	7383	0.1872	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.777	13.782	-0.005	86	1552	0.0358	
46 Isooctane	57	14.189	14.184	0.005	91	5236	0.1050	
47 Benzene	78	14.248	14.253	-0.005	93	8997	0.2092	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	97	4297	0.2081	
49 n-Heptane	43		14.531				ND	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	635401	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88	16.195	16.190	0.005	18	892	0.1183	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.624				ND	
65 Toluene	92	17.950	17.955	-0.005	94	16965	0.4936	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.865				ND	
68 Tetrachloroethene	166		18.988				ND	
69 2-Hexanone	43		19.261				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.3183	
* 74 Chlorobenzene-d5	117	20.731	20.732	-0.001	83	594101	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	77	1022	0.0184	
76 Ethylbenzene	91	20.892	20.898	-0.006	95	5482	0.0713	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	7092	0.2284	
79 o-Xylene	106	21.801	21.796	0.005	76	2750	0.0898	
80 Styrene	104	21.839	21.839	0.000	83	2112	0.0440	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.347	0.000	86	1334	0.0142	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.978	22.973	0.005	96	1678	0.0149	
88 4-Ethyltoluene	105		23.139				ND	
89 2-Chlorotoluene	91		23.177				ND	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	90	2023	0.0226	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.808	23.813	-0.005	94	6167	0.0694	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.262	24.262	0.000	93	3087	0.0282	
96 1,3-Dichlorobenzene	146		24.332				ND	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	93	1890	0.0260	
98 Benzyl chloride	91		24.707				ND	
100 n-Butylbenzene	91		24.921				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.130				ND	
104 Hexachlorobutadiene	225	28.339	28.344	-0.005	83	1366	0.0243	
105 Naphthalene	128	28.772	28.767	0.005	96	6742	0.0600	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

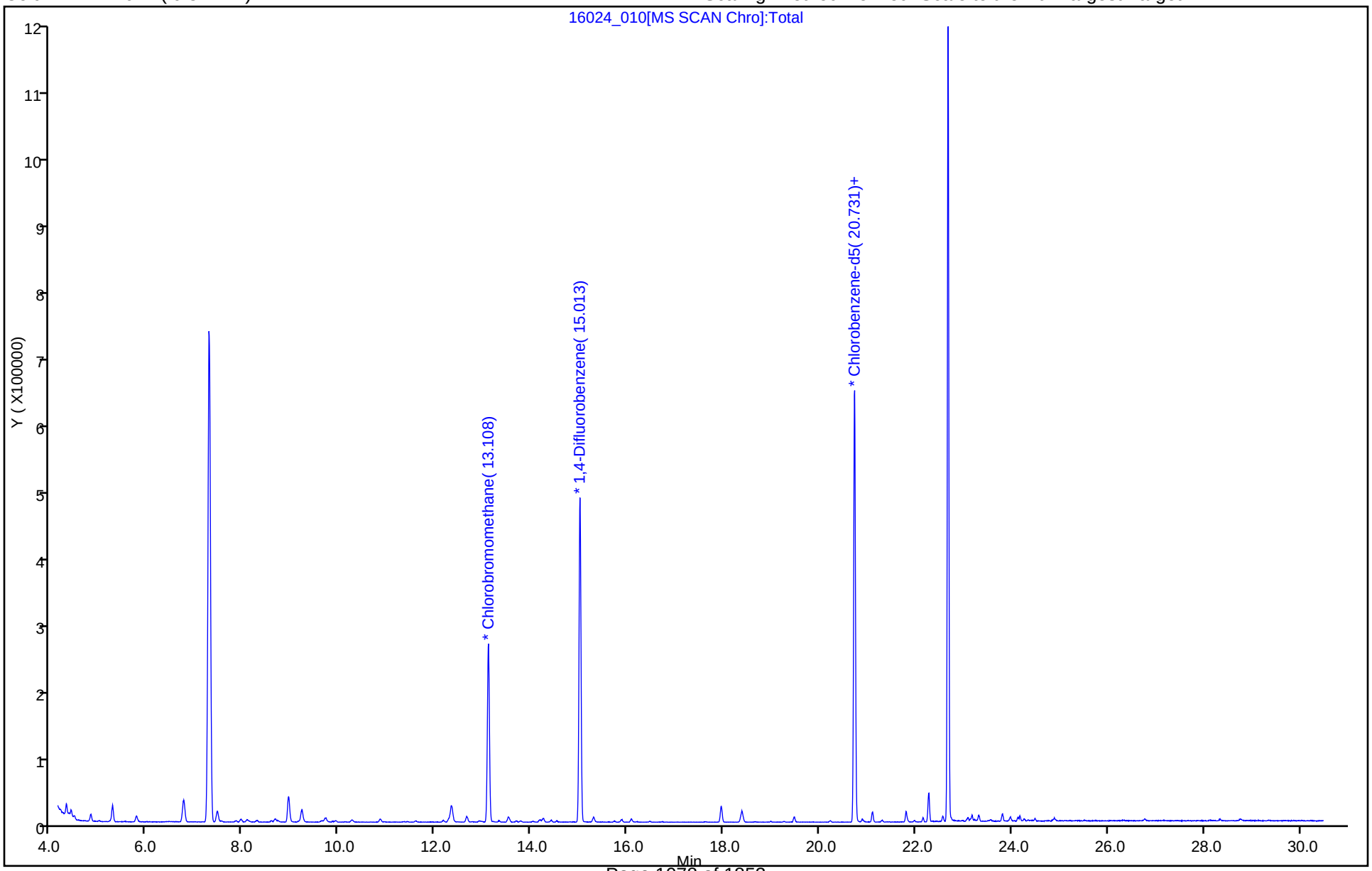
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16	Worklist Smp#:	10
Client ID:	FR-IA08-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.9900	ALS Bottle#:	9
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



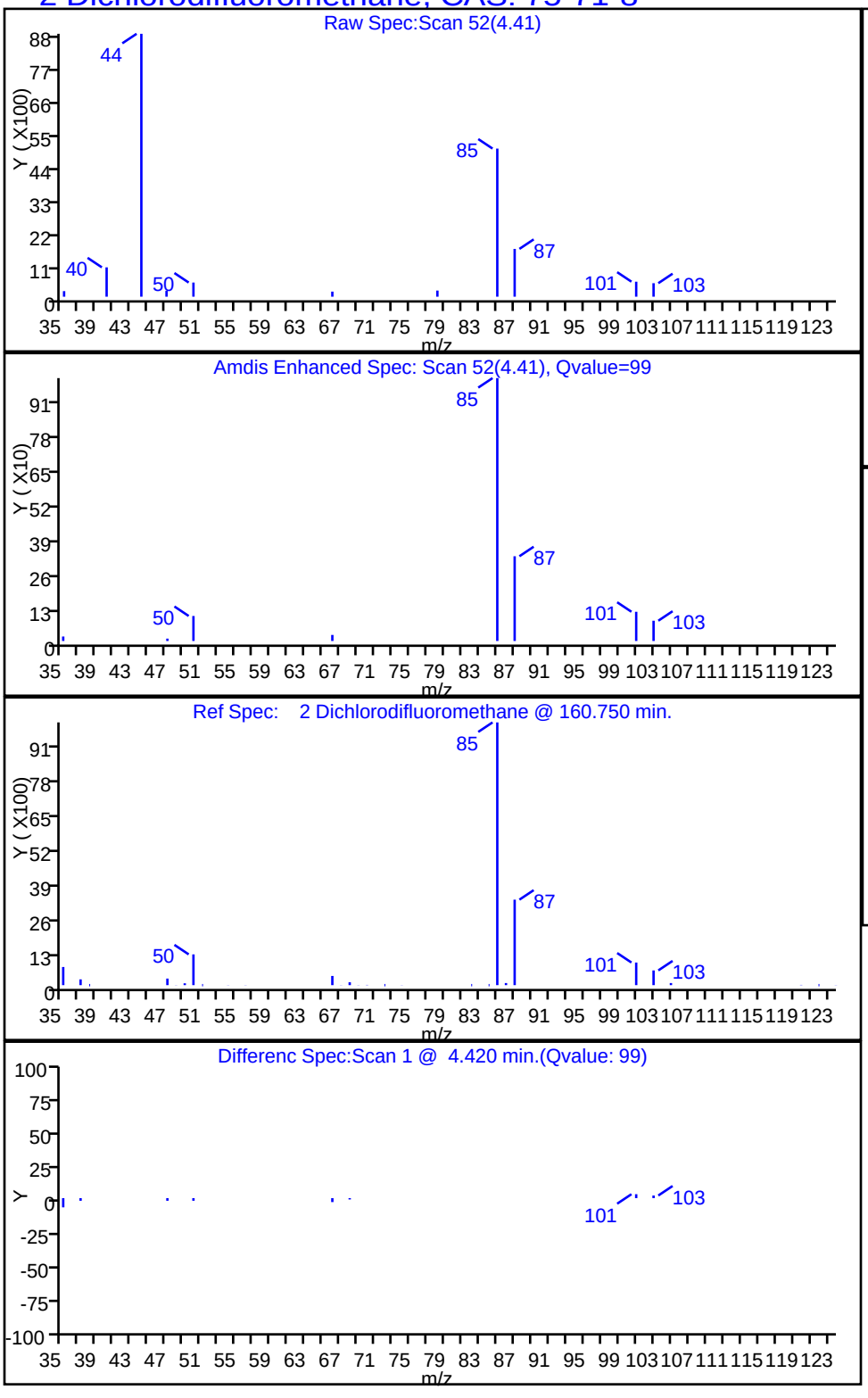
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

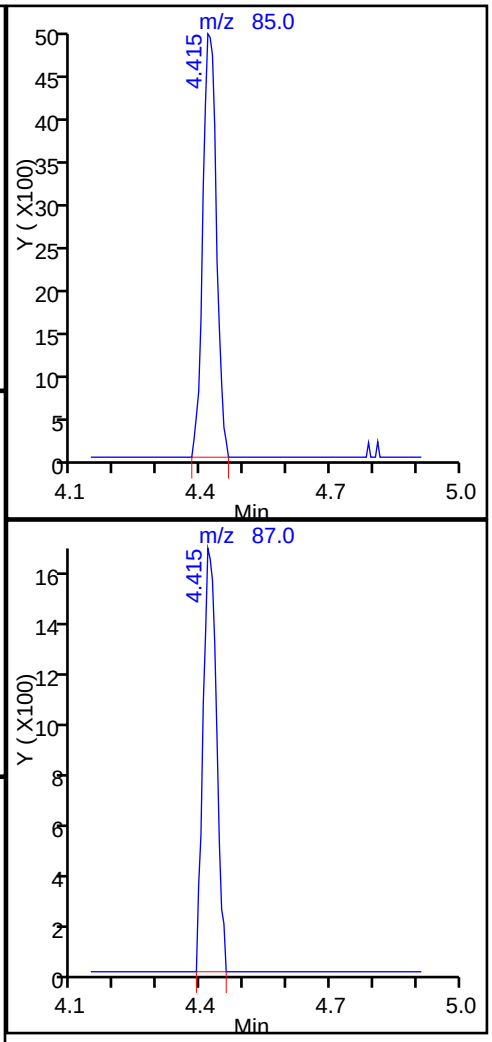
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8



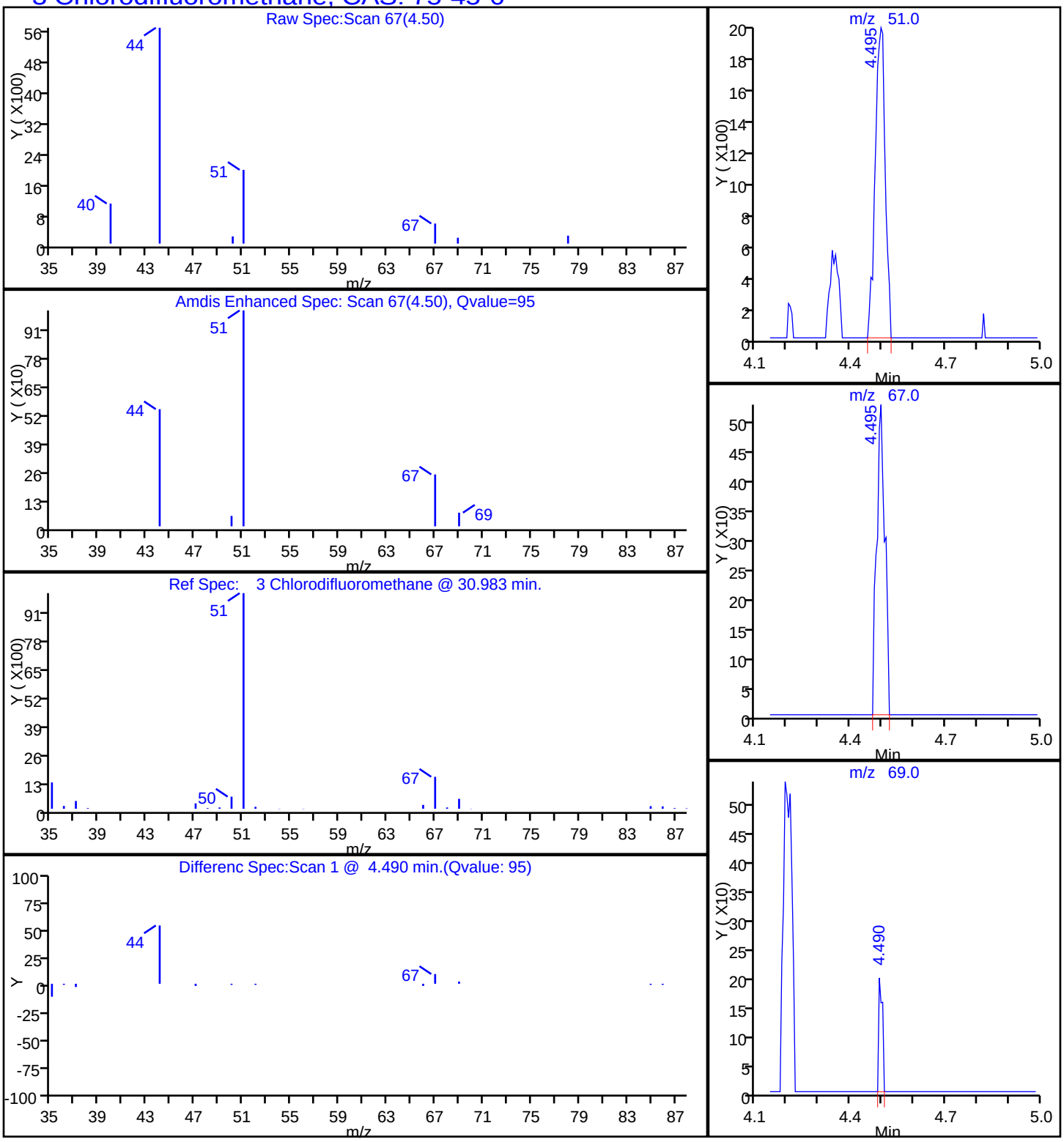


Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6



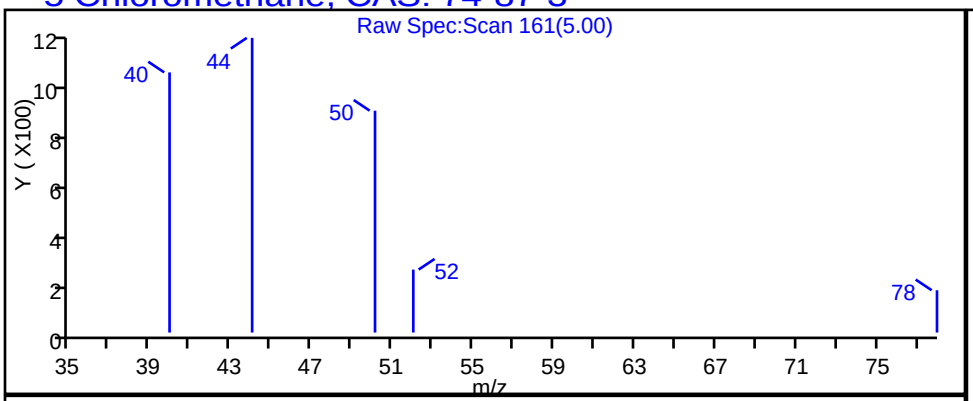
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

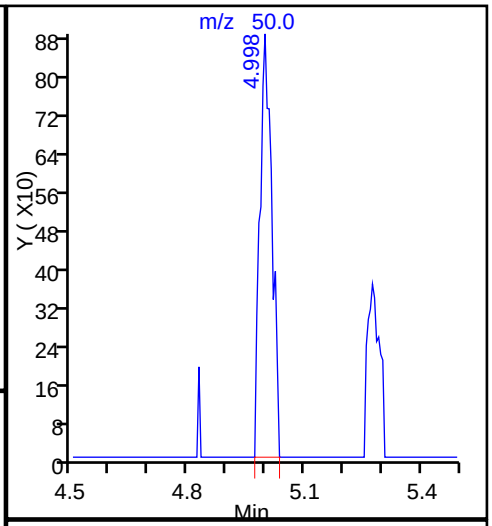
TestAmerica Burlington

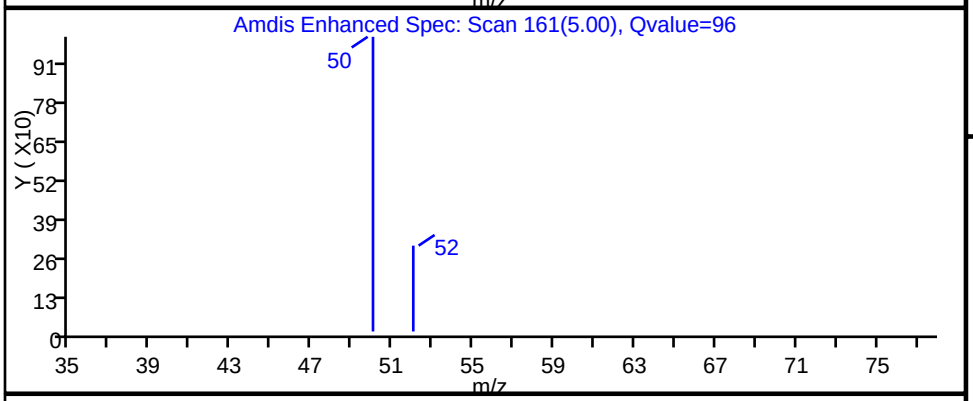
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

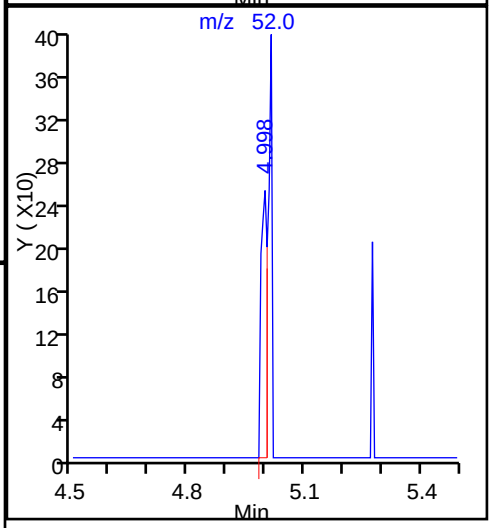
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

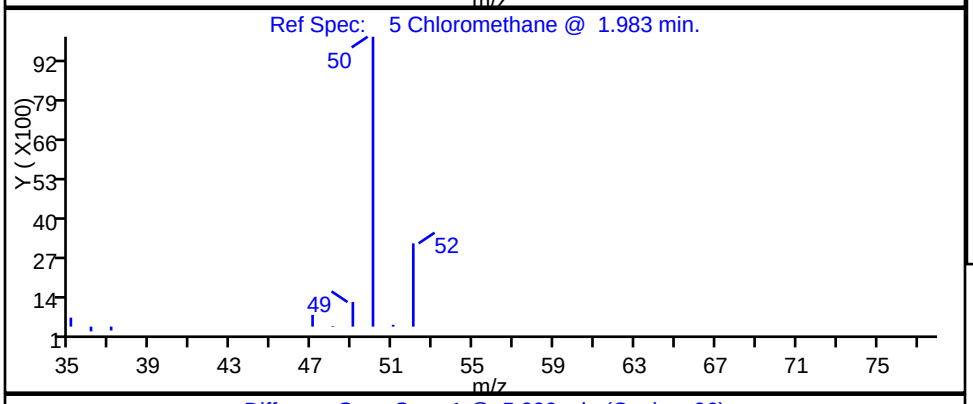
5 Chloromethane, CAS: 74-87-3

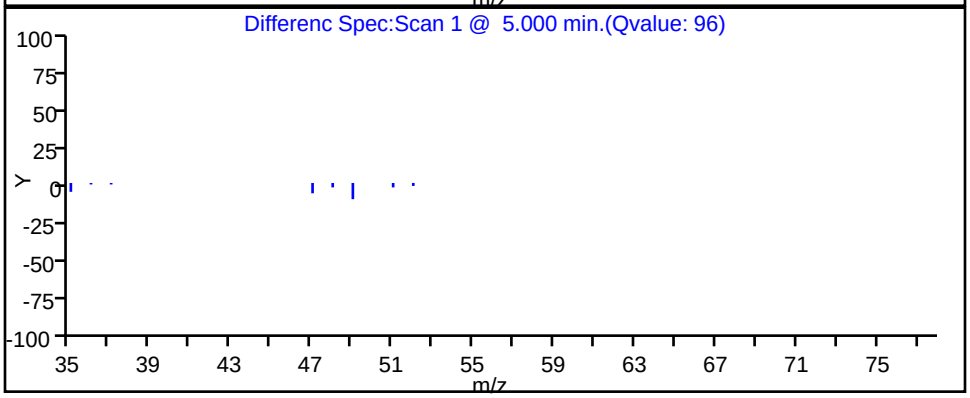










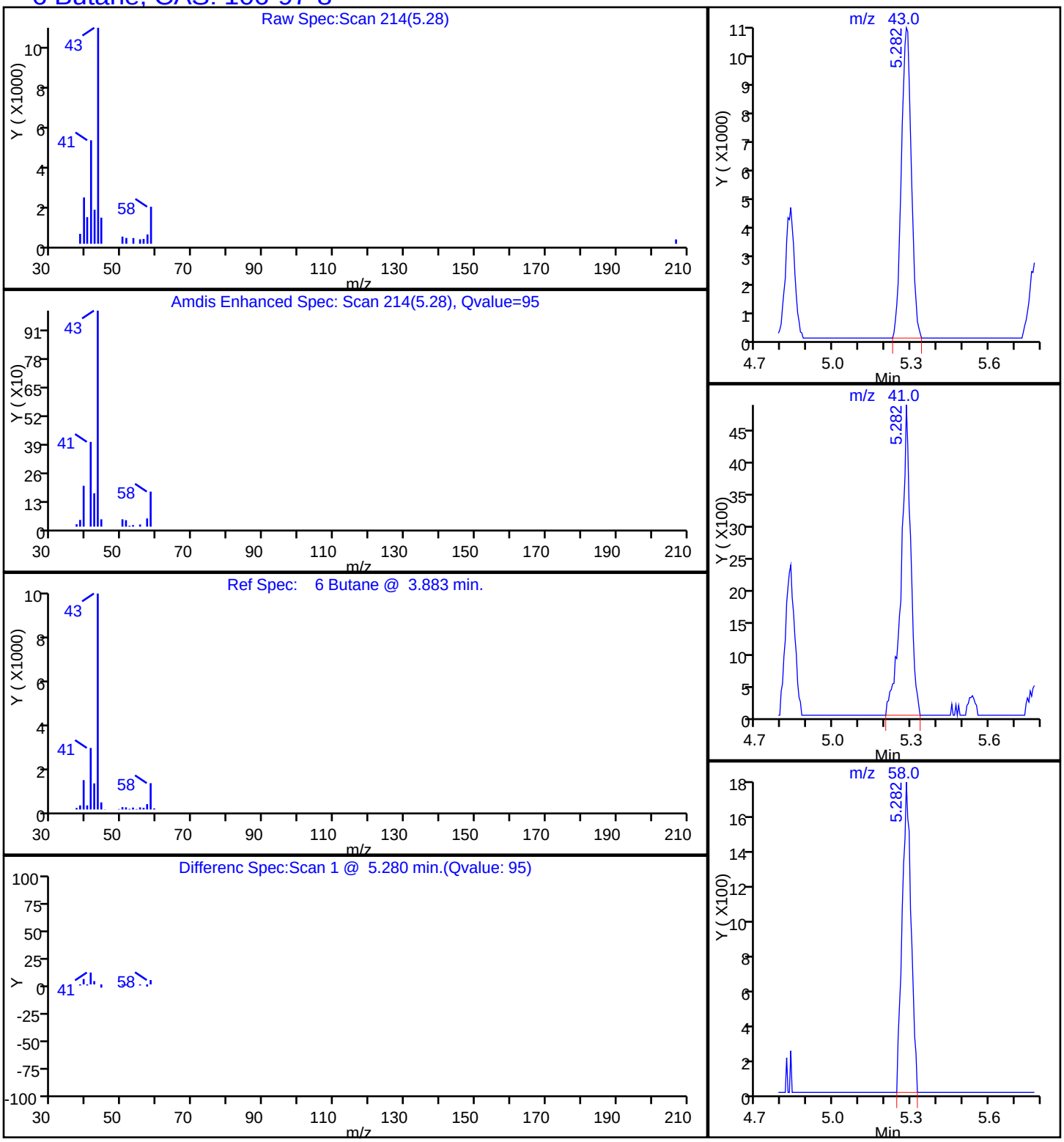


Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

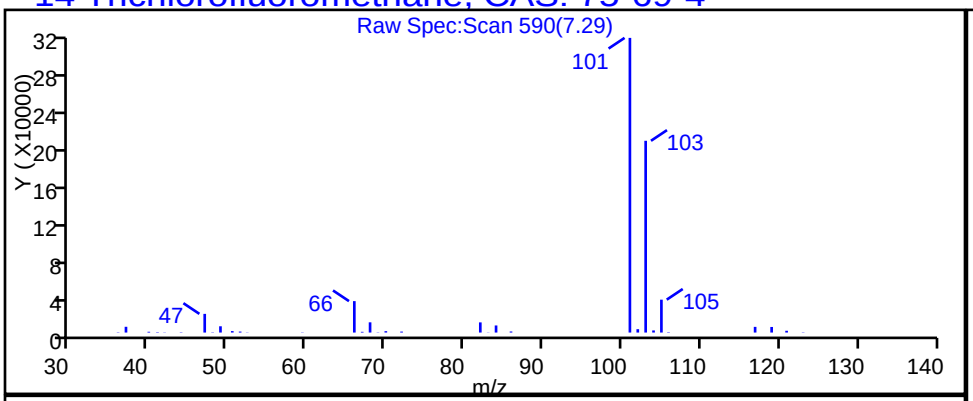


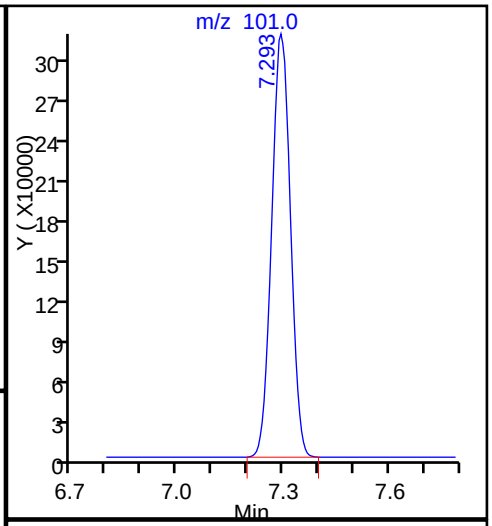
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

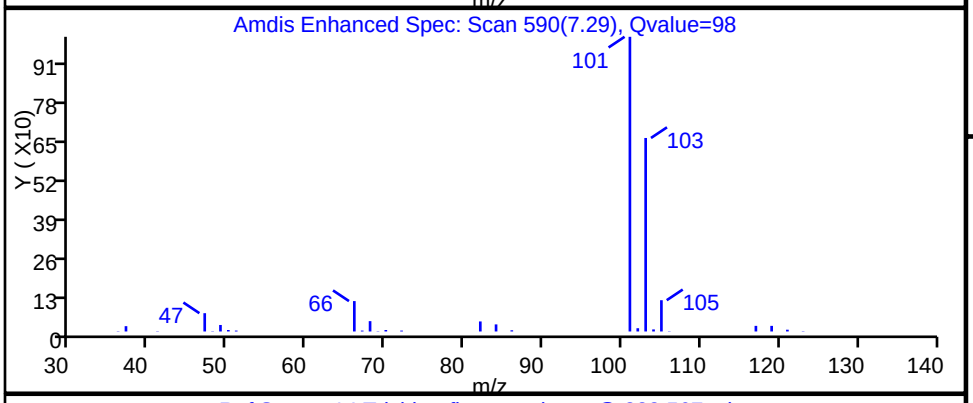
TestAmerica Burlington

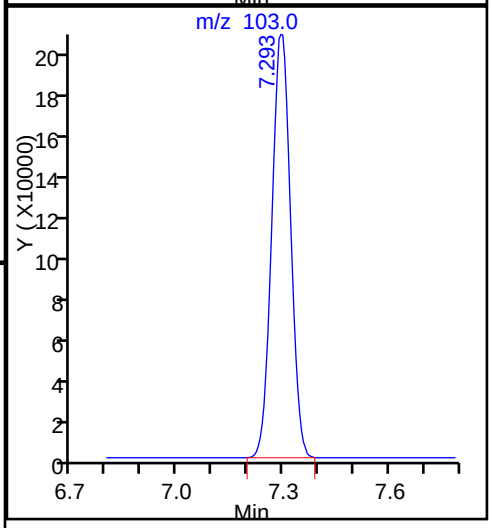
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

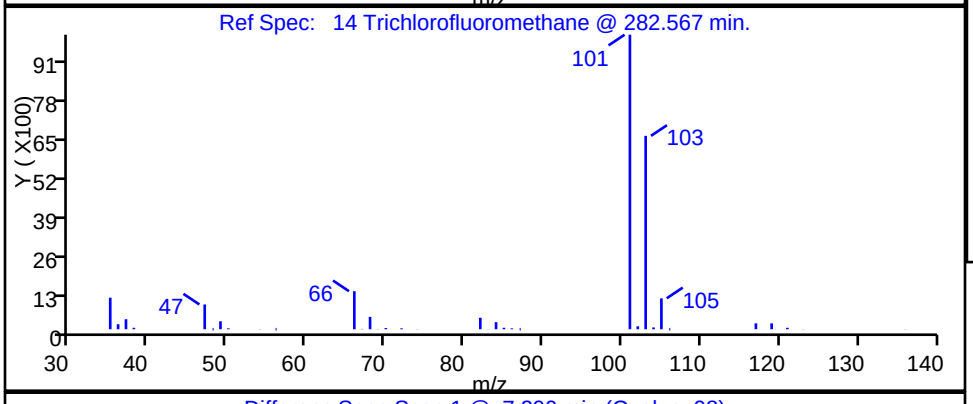
14 Trichlorofluoromethane, CAS: 75-69-4

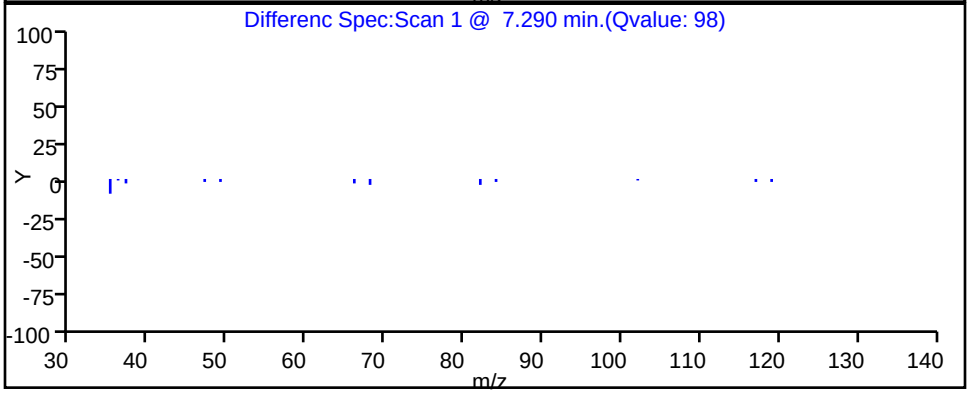












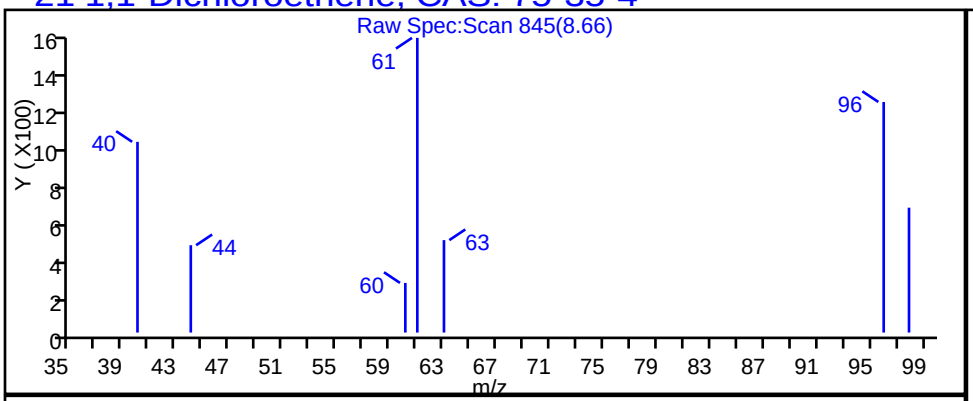
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

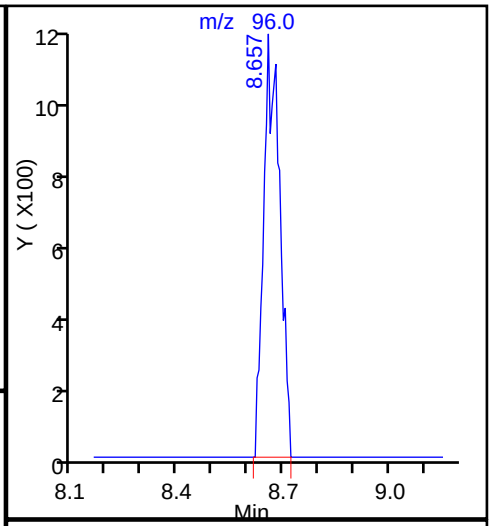
TestAmerica Burlington

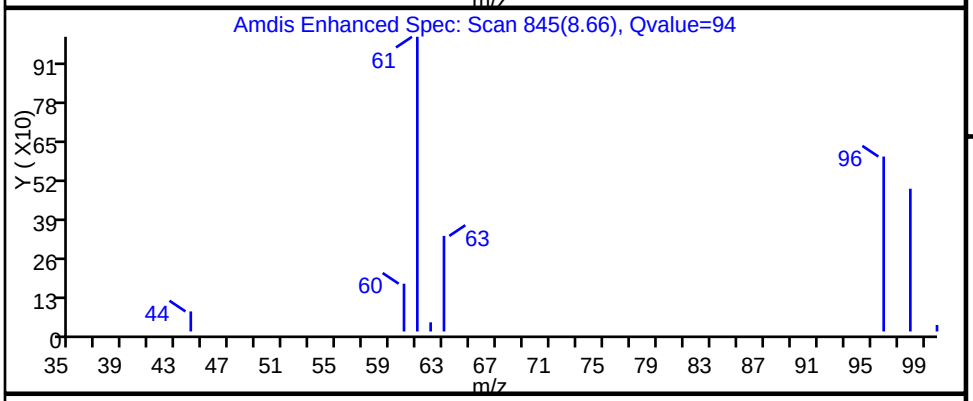
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

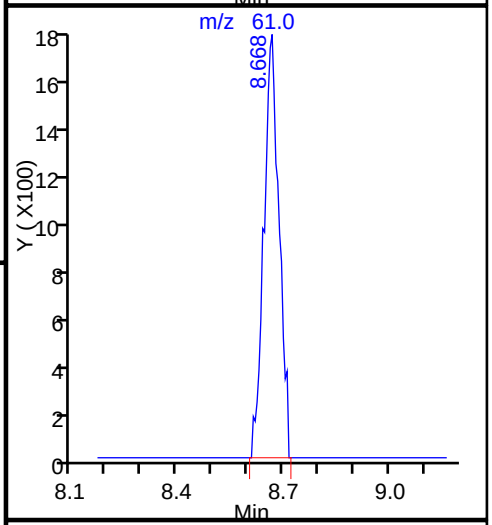
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

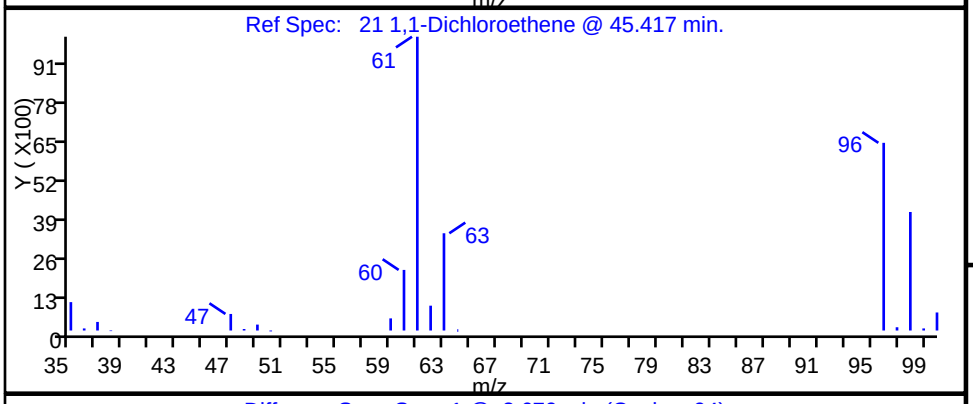
21 1,1-Dichloroethene, CAS: 75-35-4

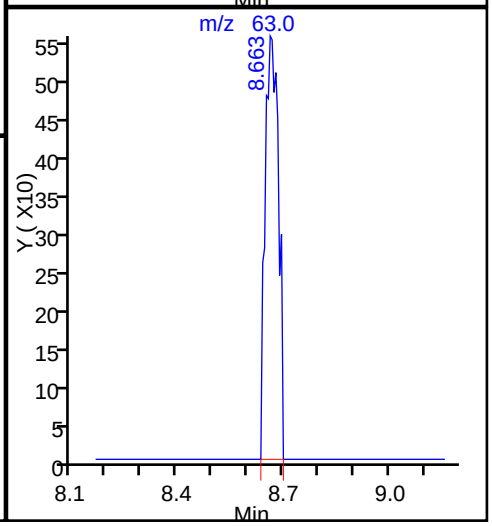


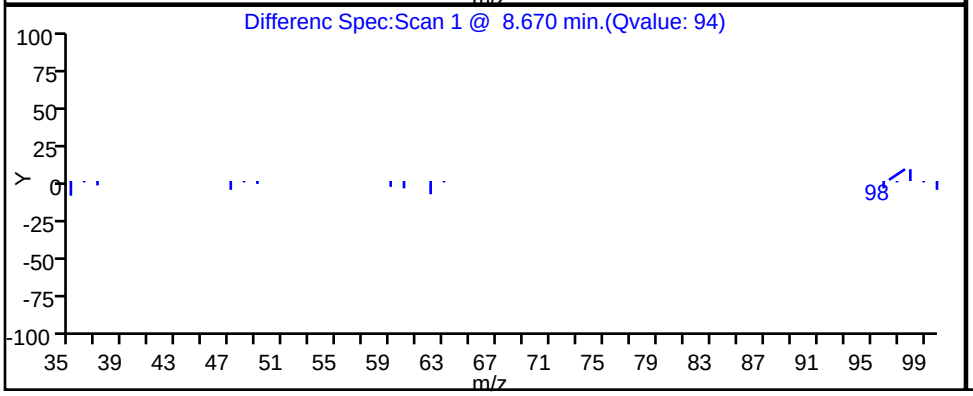












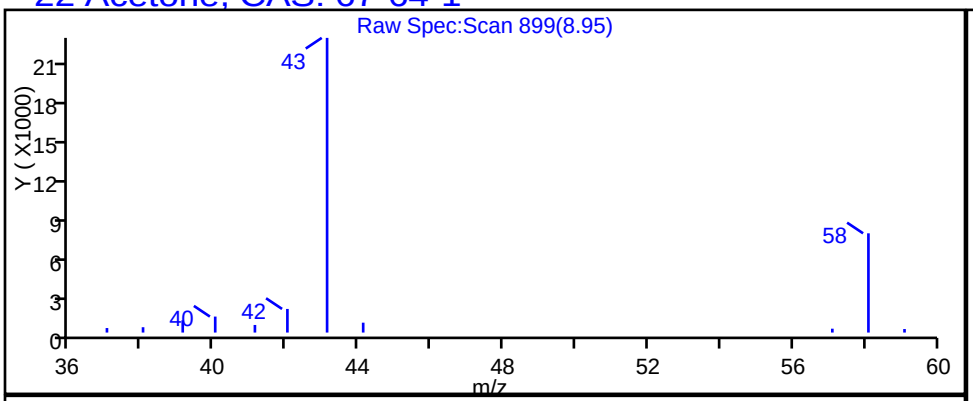
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

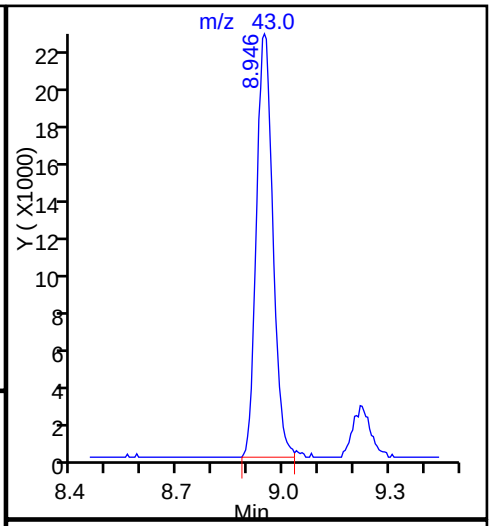
TestAmerica Burlington

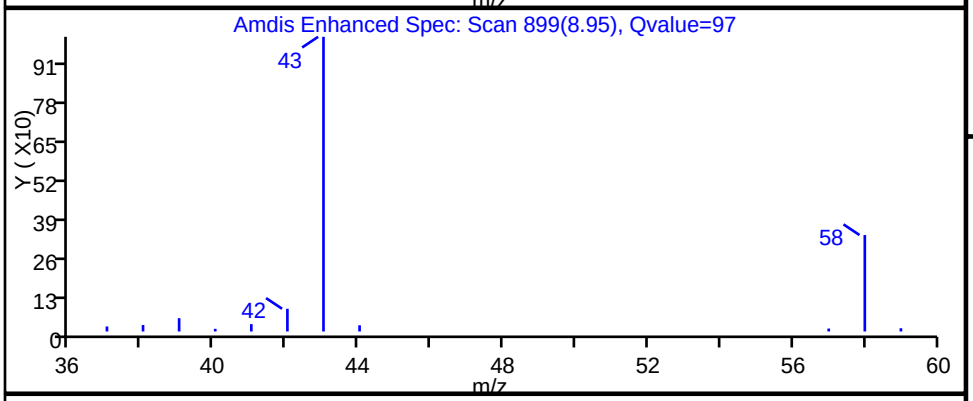
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

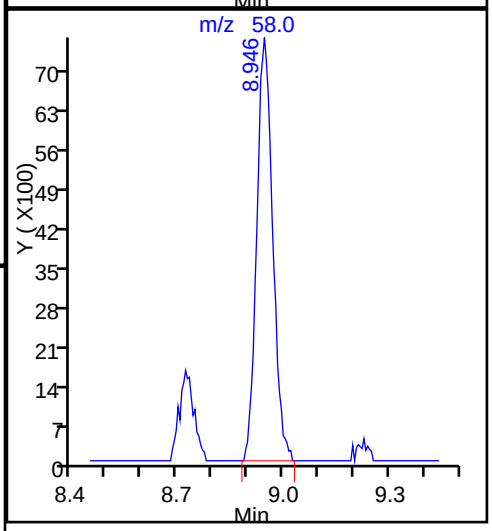
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16
Client ID:	FR-IA08-092315		
Operator ID:	pad	ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

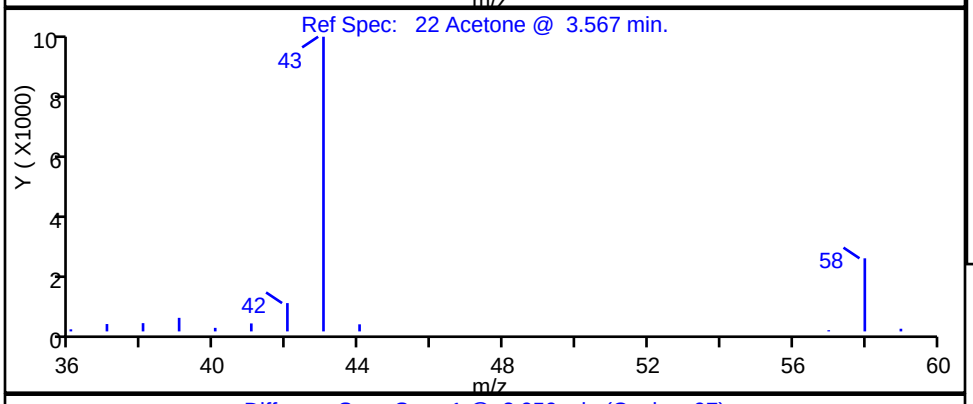
22 Acetone, CAS: 67-64-1

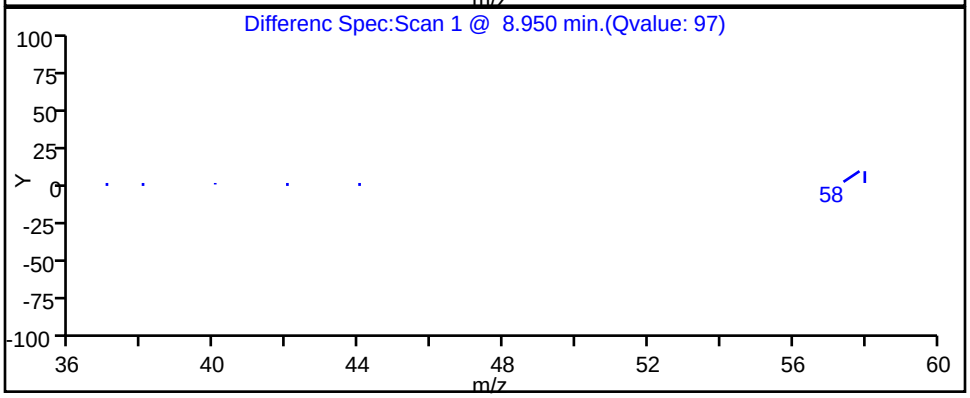












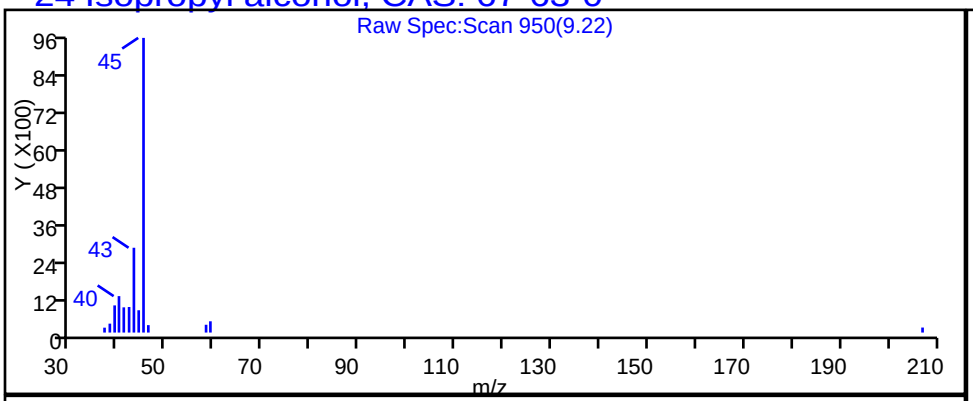
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

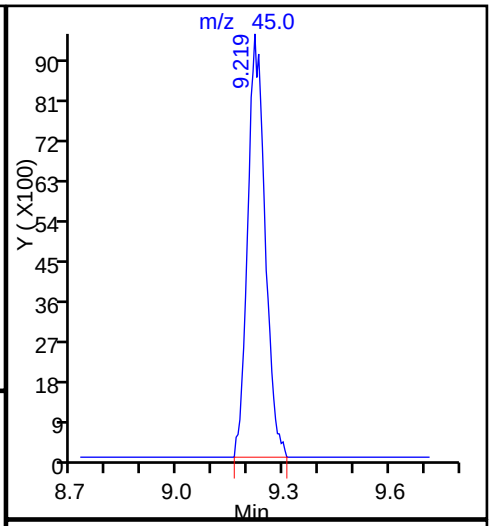
TestAmerica Burlington

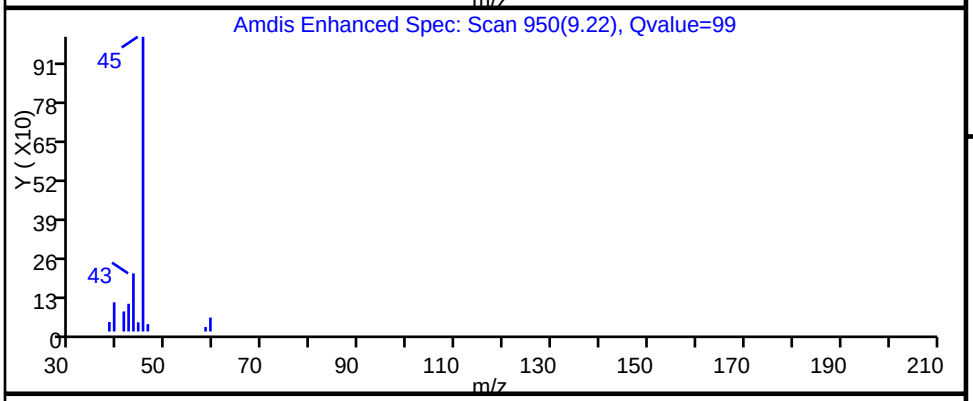
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

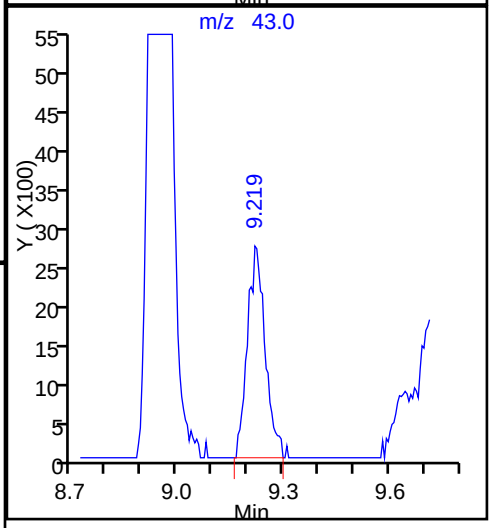
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

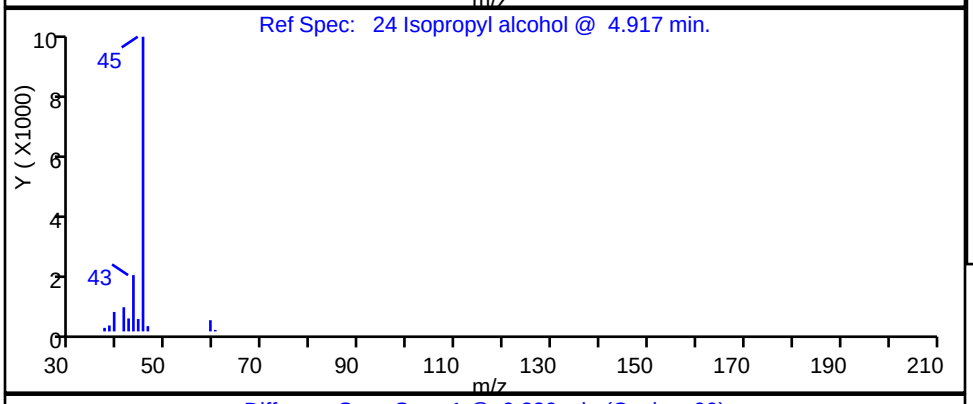
24 Isopropyl alcohol, CAS: 67-63-0

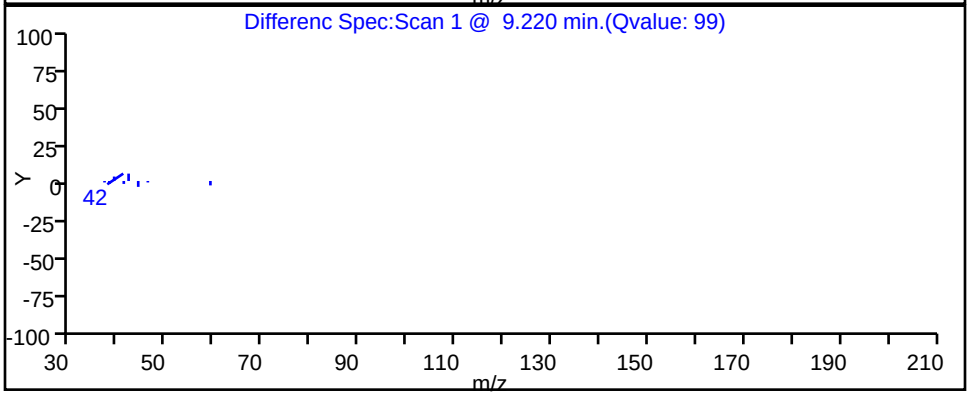












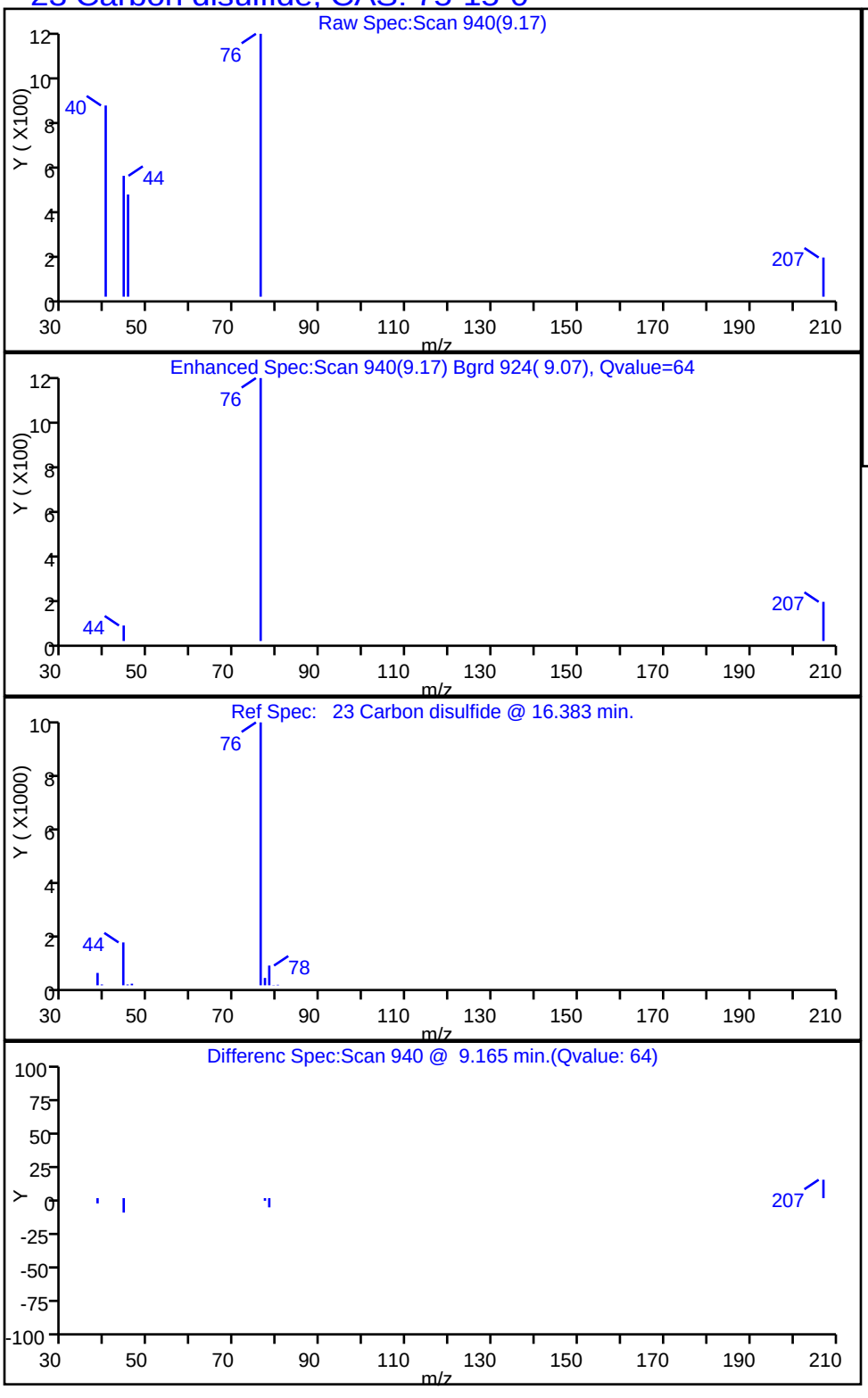
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

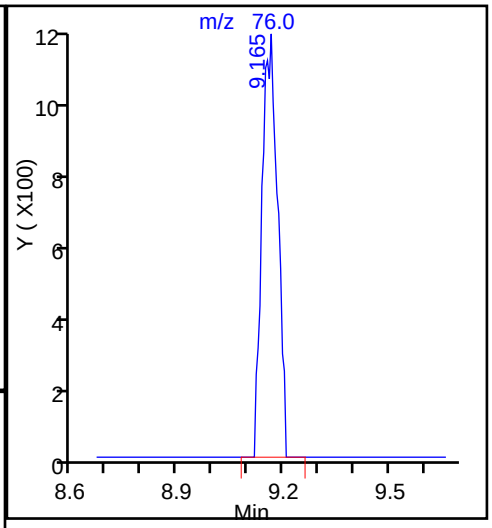
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0



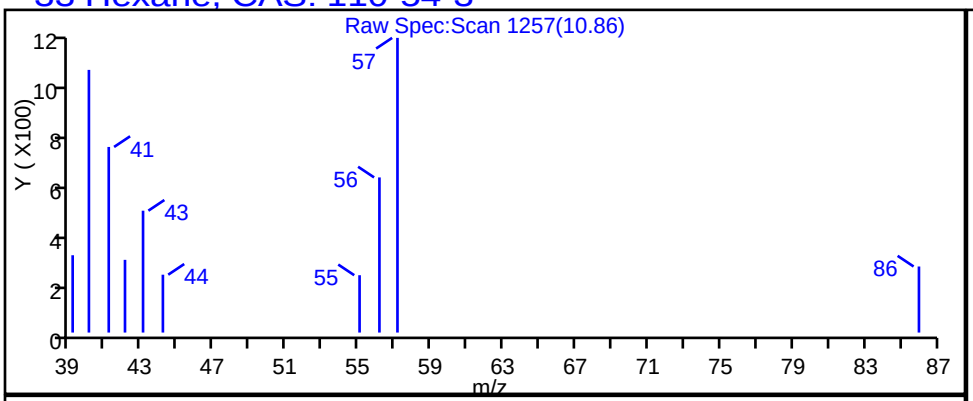


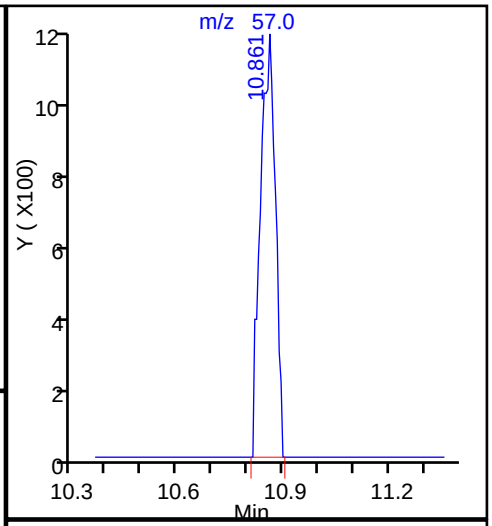
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

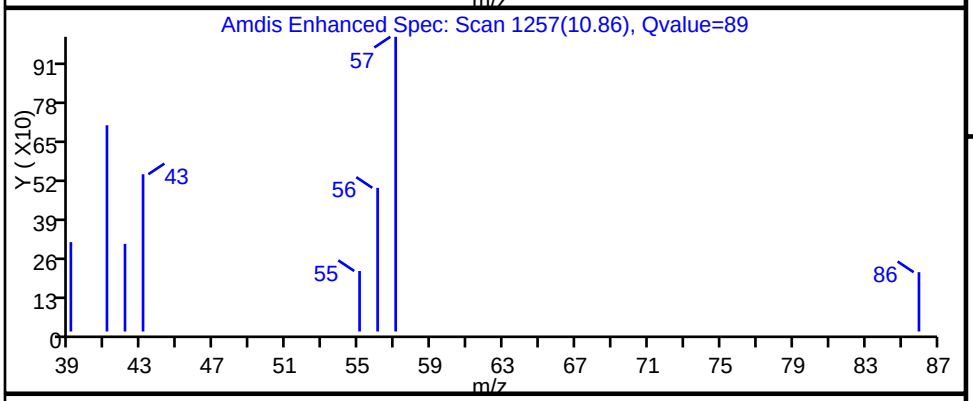
TestAmerica Burlington

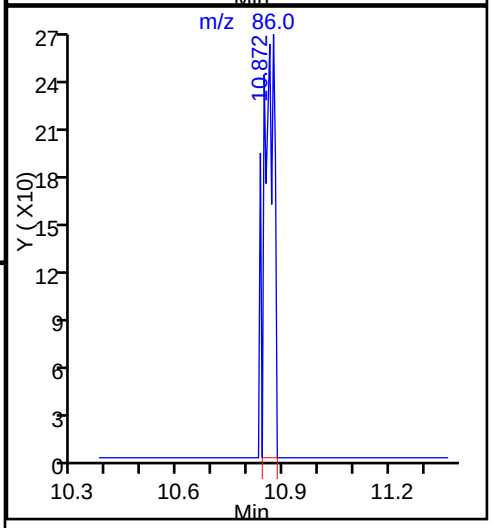
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

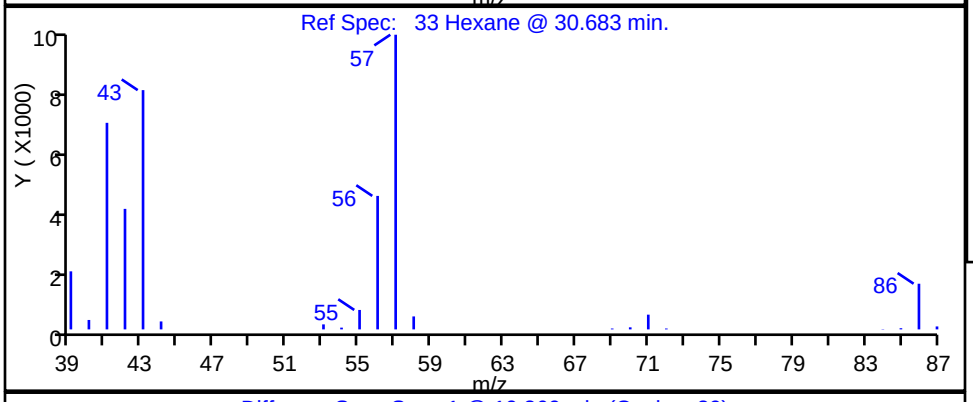
33 Hexane, CAS: 110-54-3

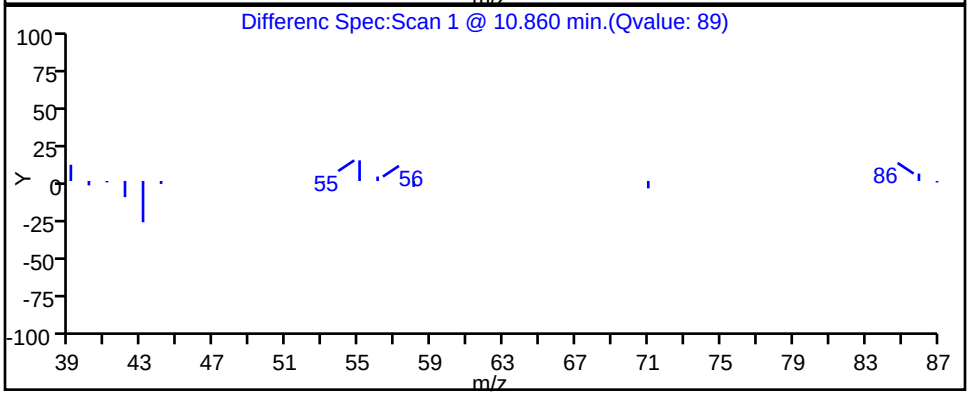












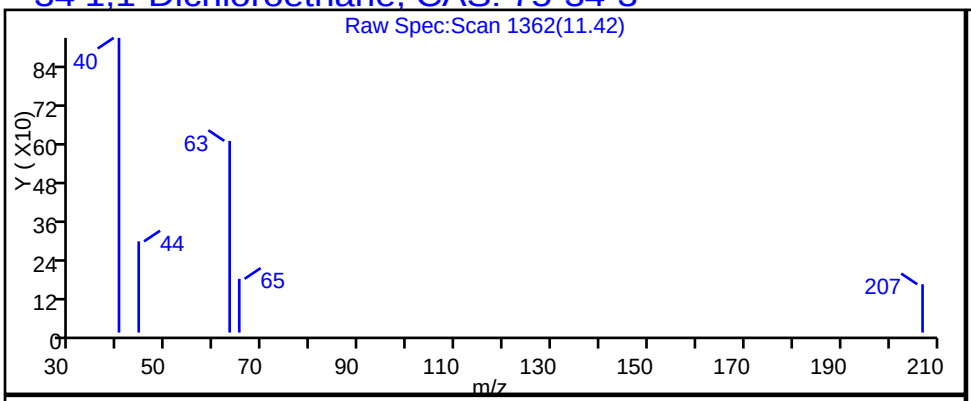
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

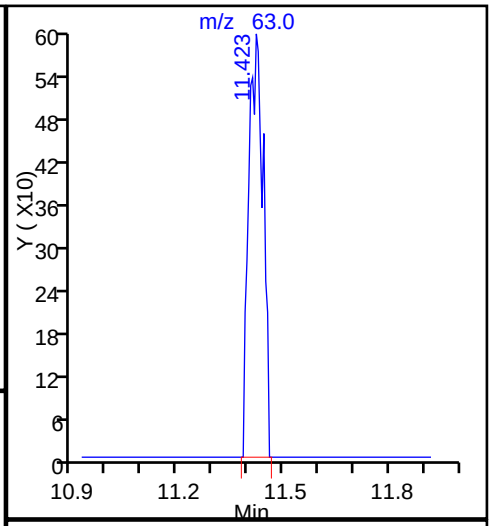
TestAmerica Burlington

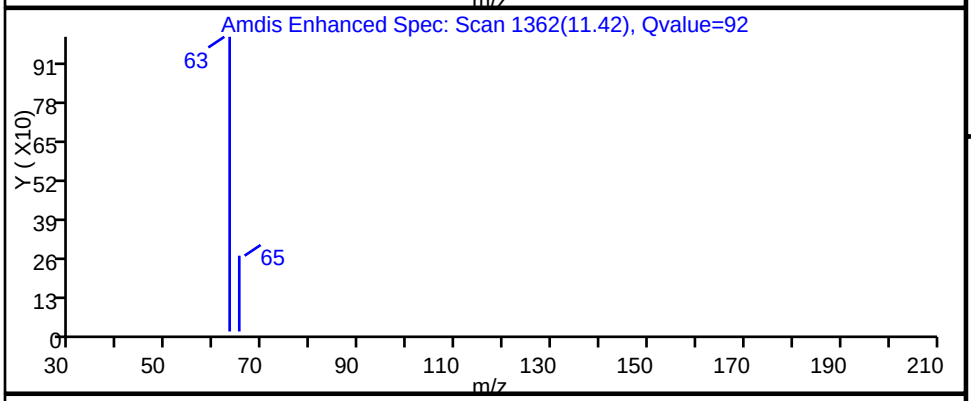
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

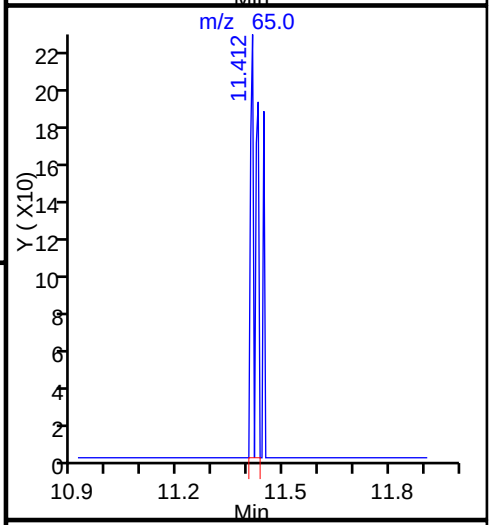
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

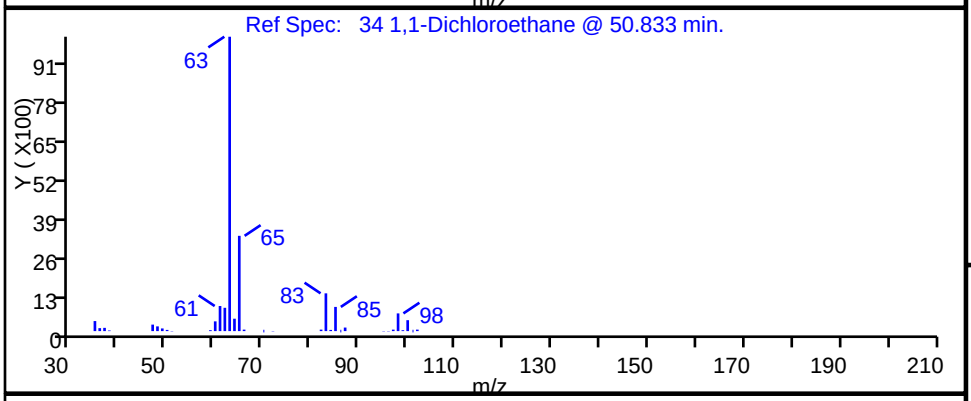
34 1,1-Dichloroethane, CAS: 75-34-3

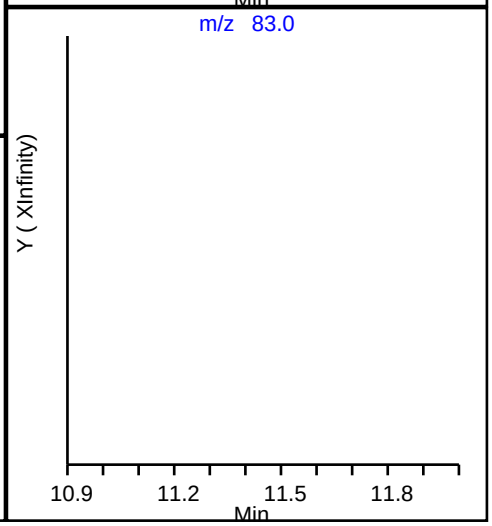


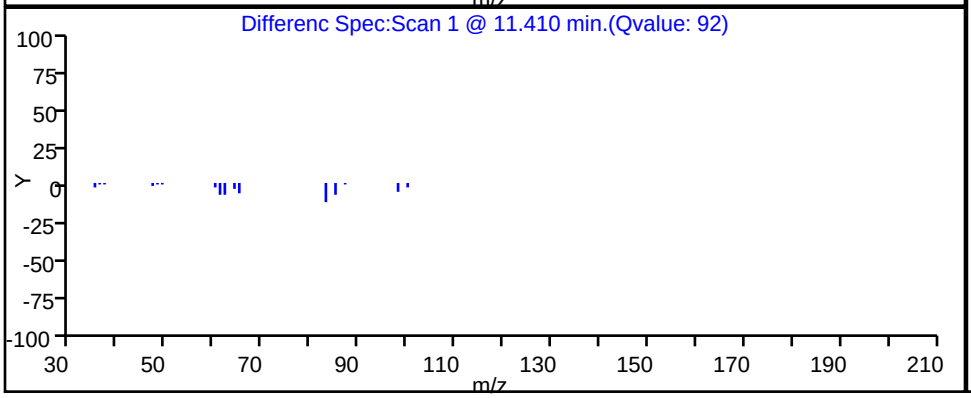












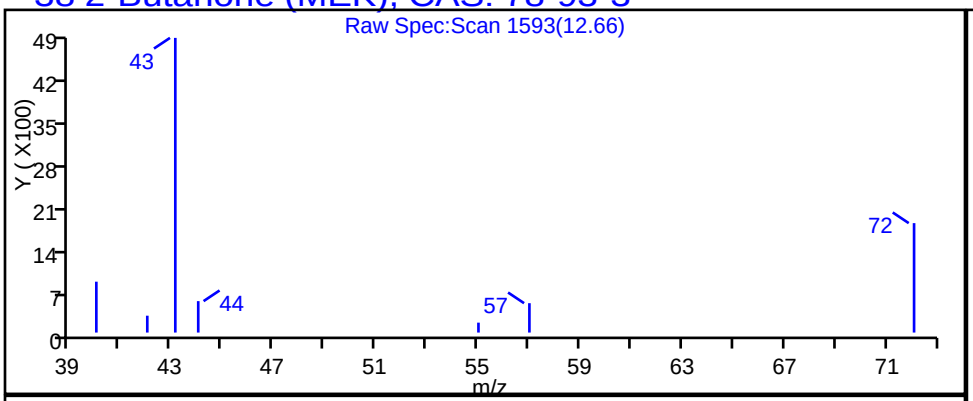
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

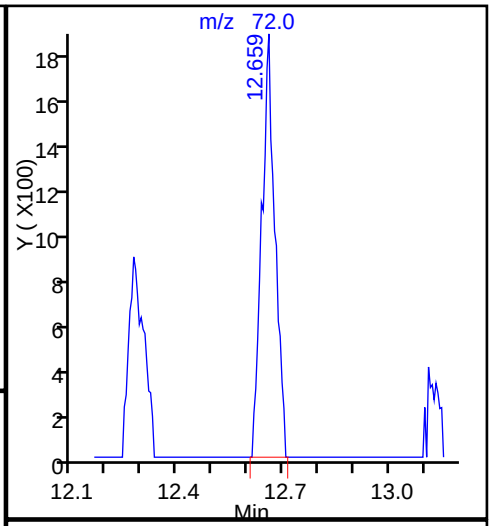
TestAmerica Burlington

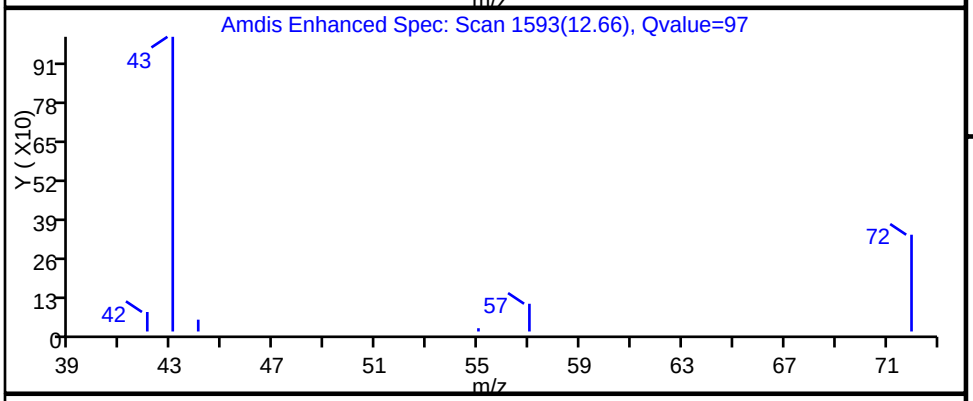
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

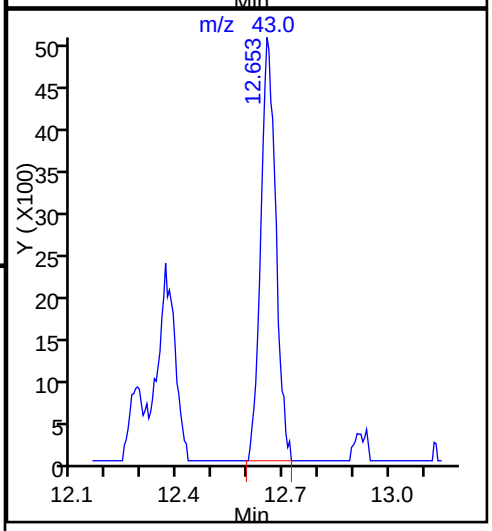
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

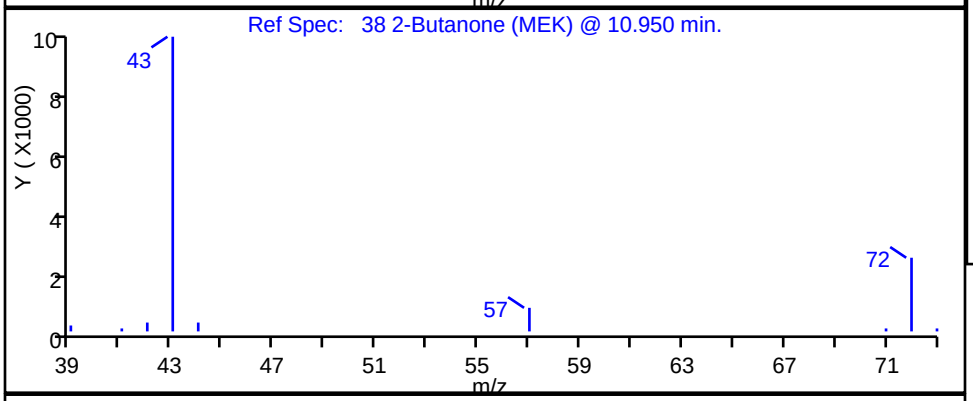
38 2-Butanone (MEK), CAS: 78-93-3

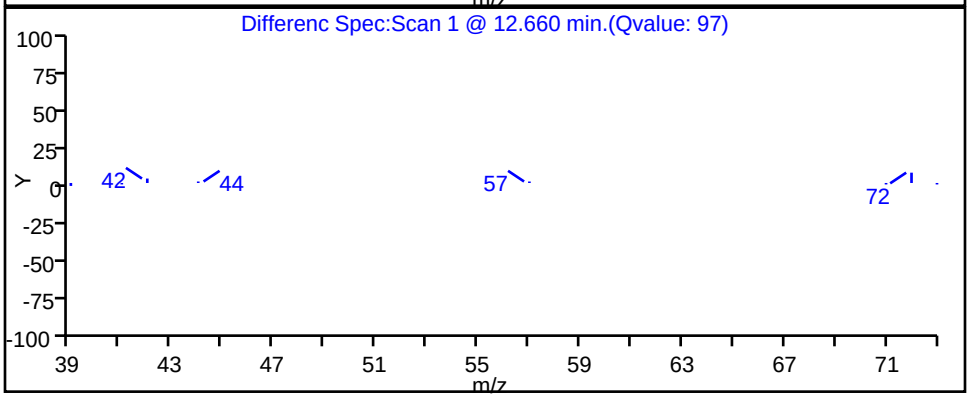










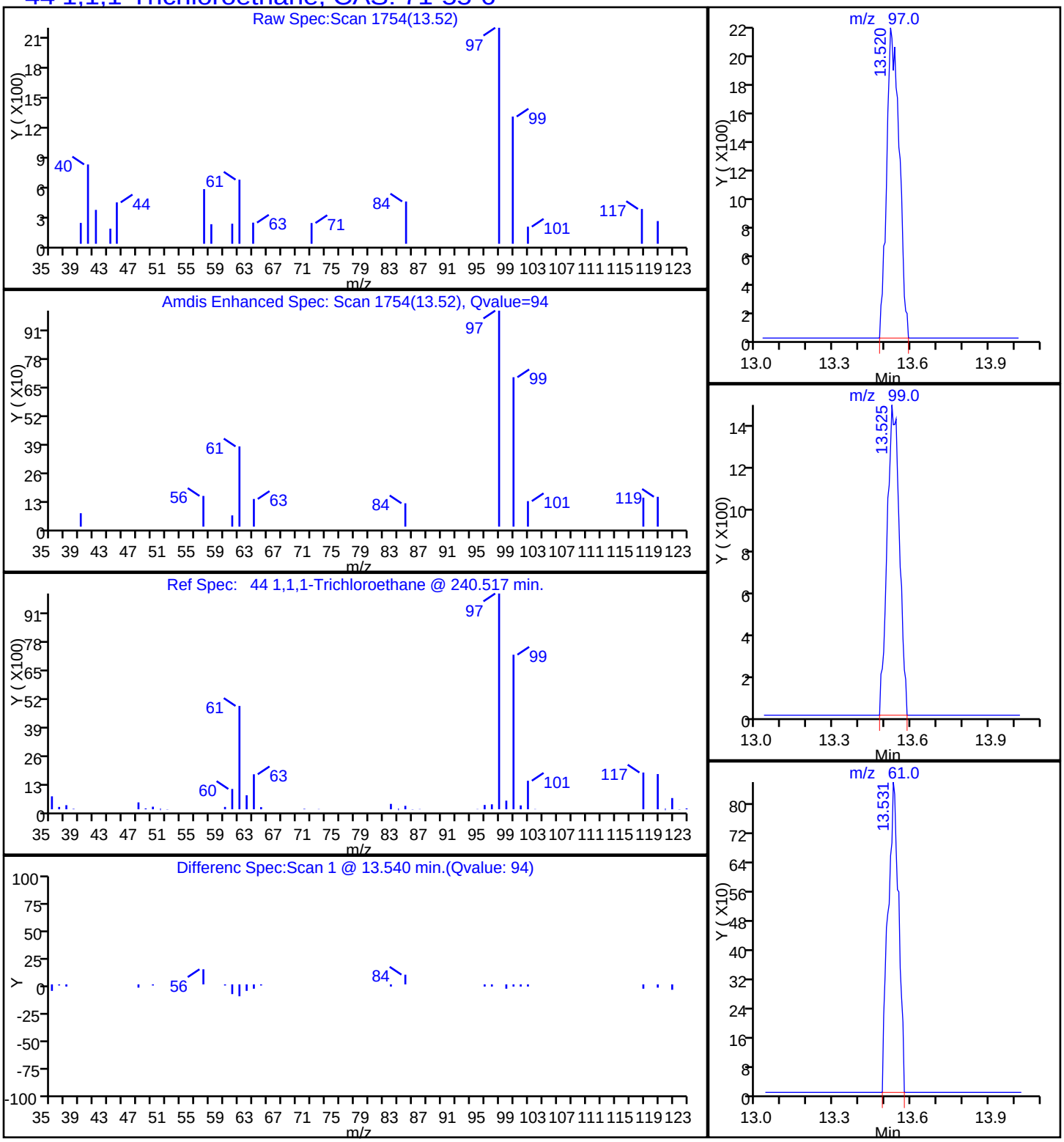


Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6

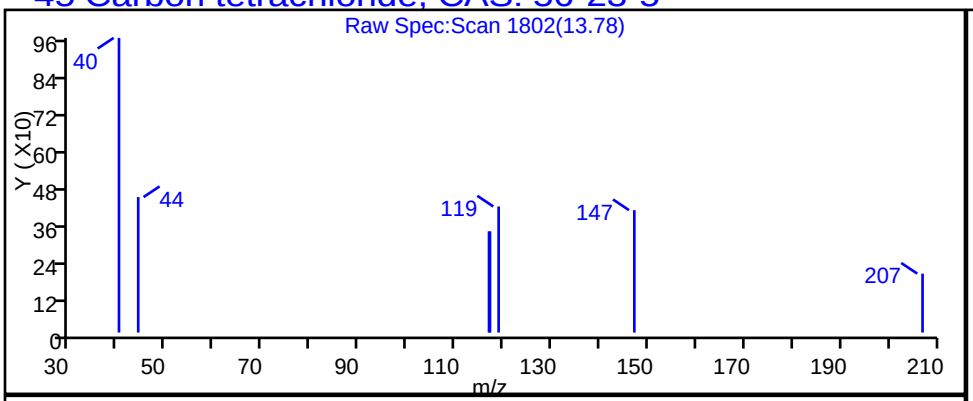


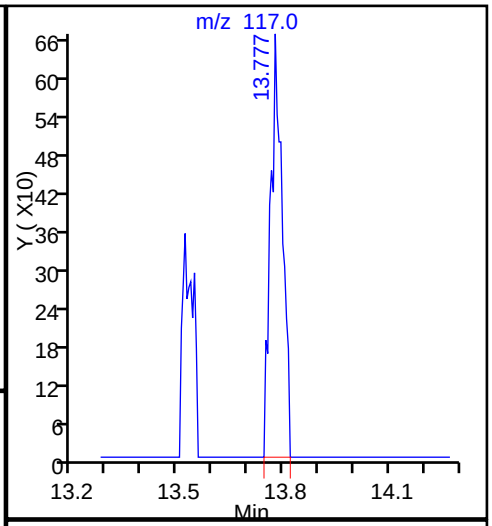
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

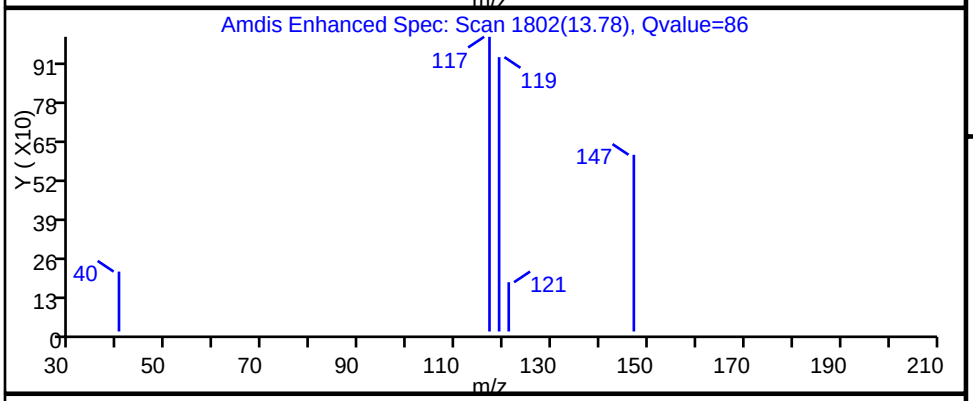
TestAmerica Burlington

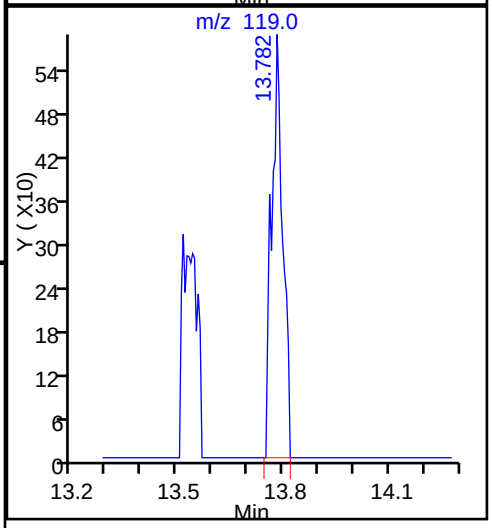
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

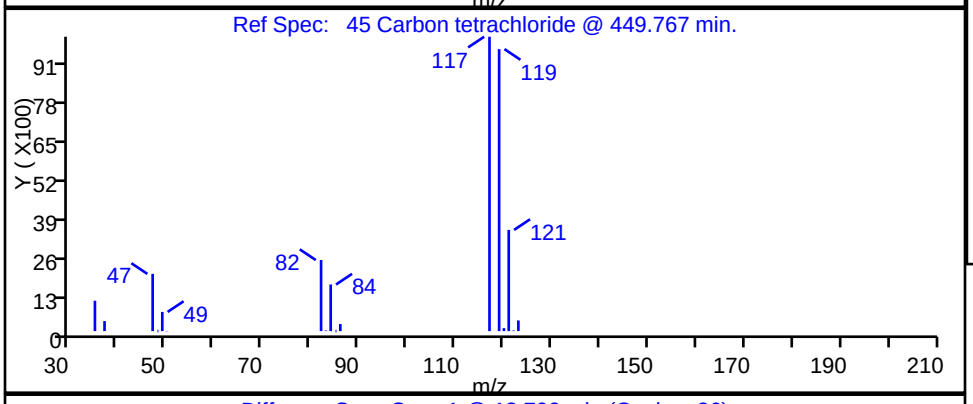
45 Carbon tetrachloride, CAS: 56-23-5

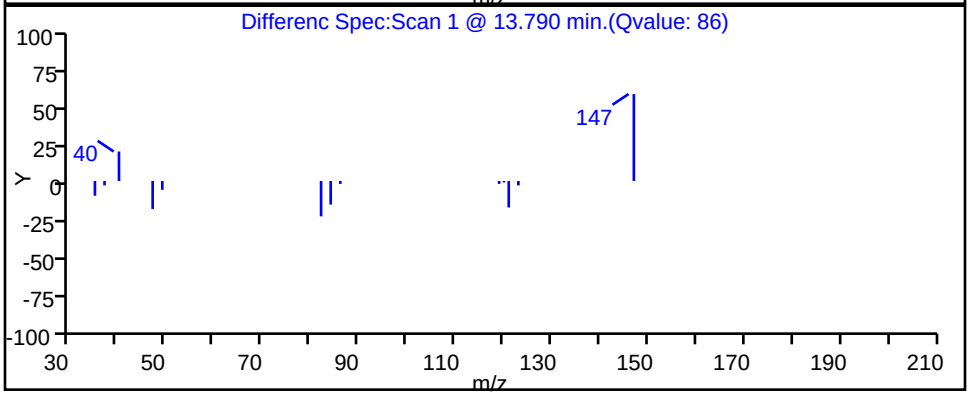












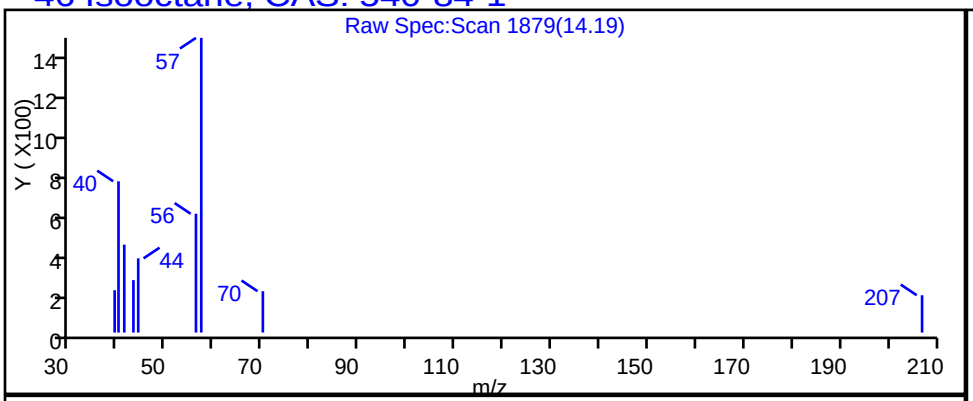
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

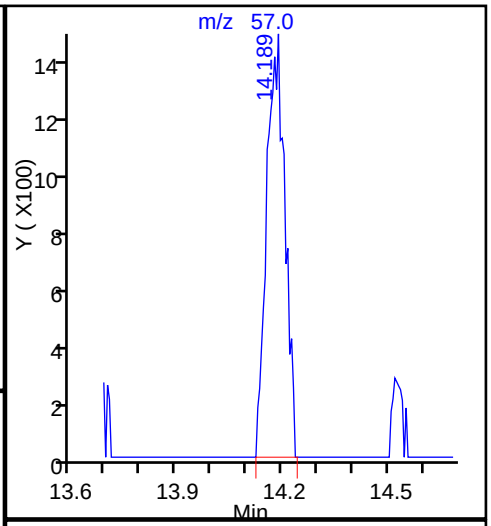
TestAmerica Burlington

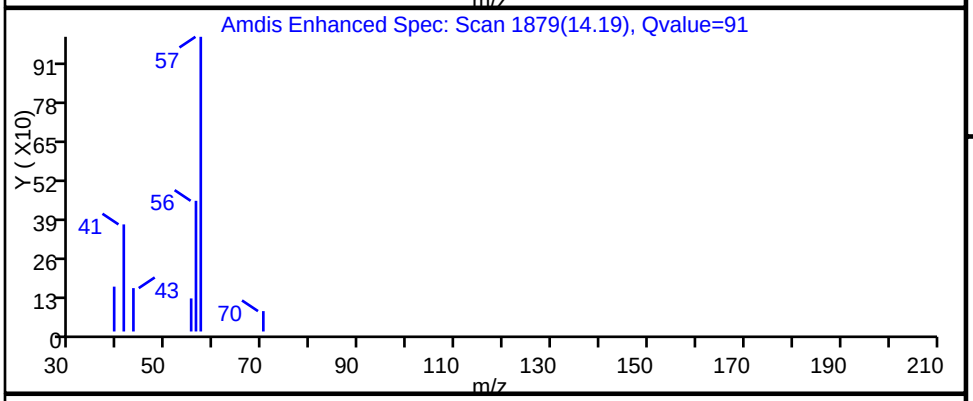
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

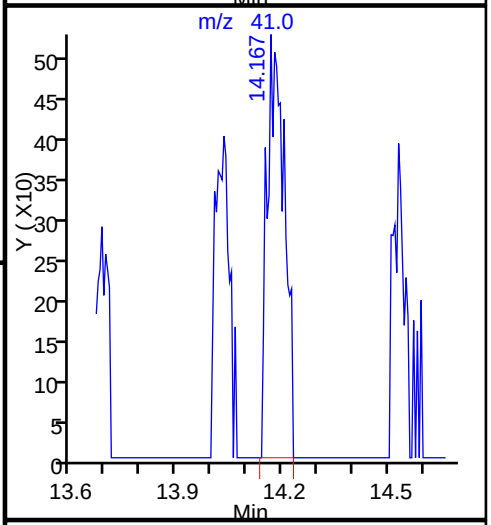
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

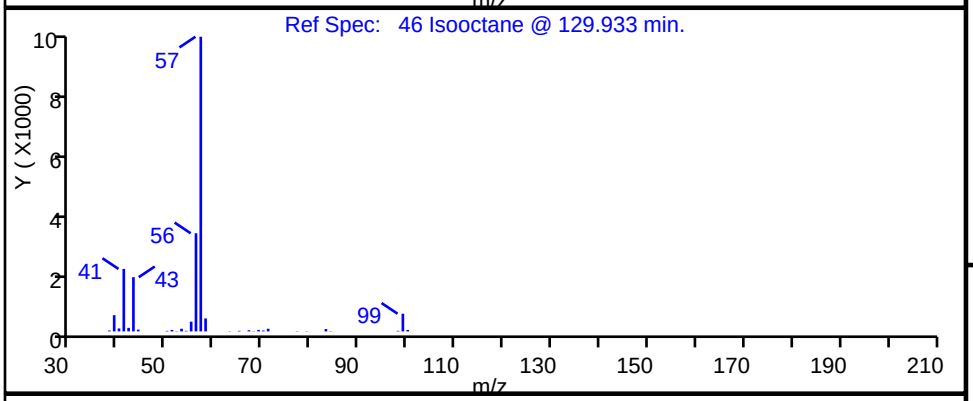
46 Isooctane, CAS: 540-84-1

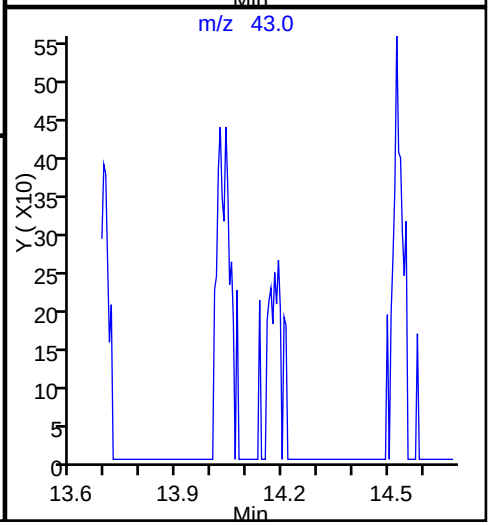


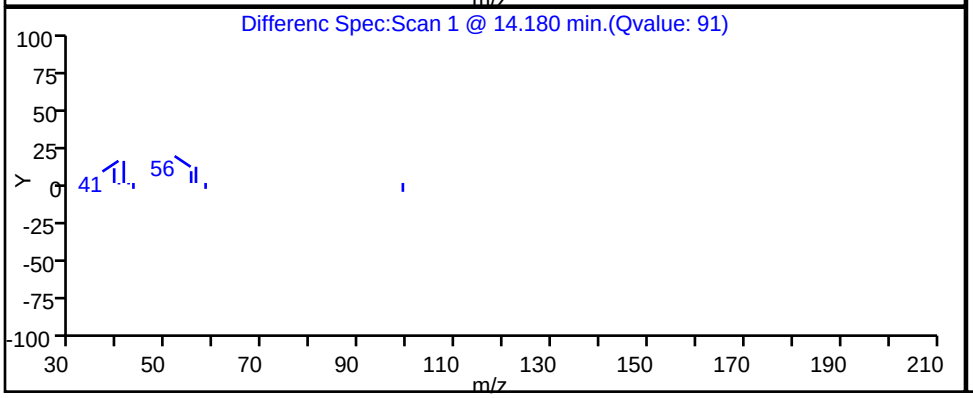












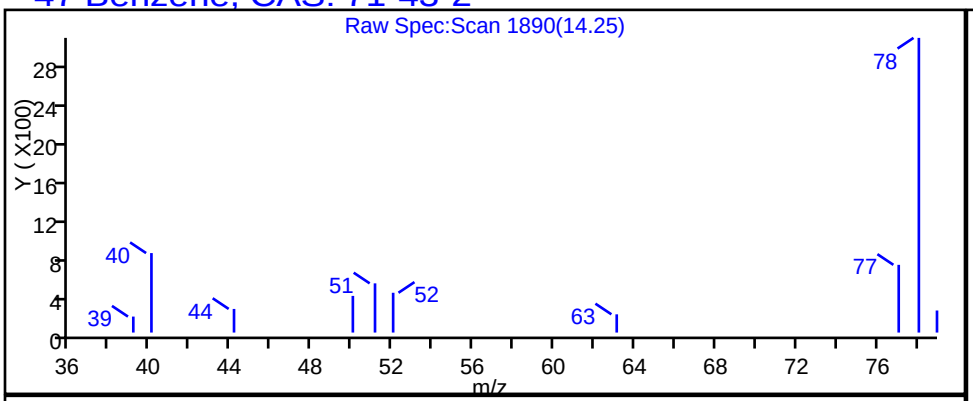
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

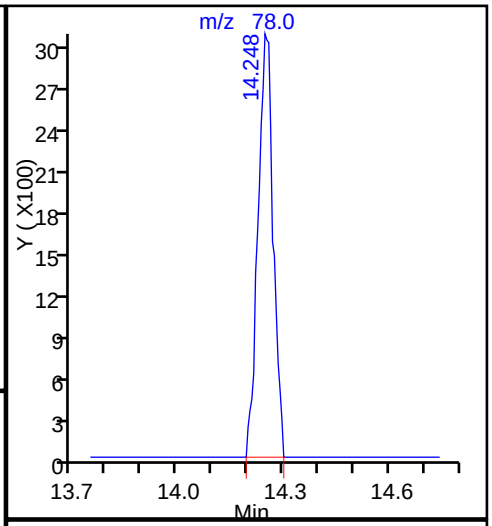
TestAmerica Burlington

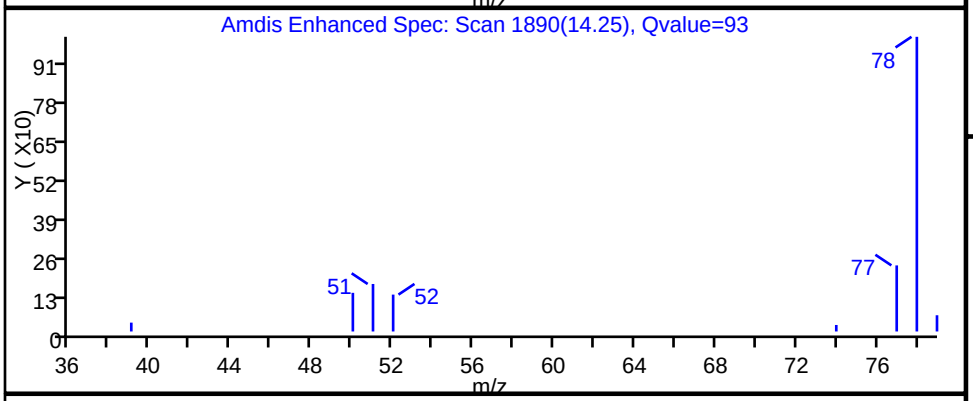
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

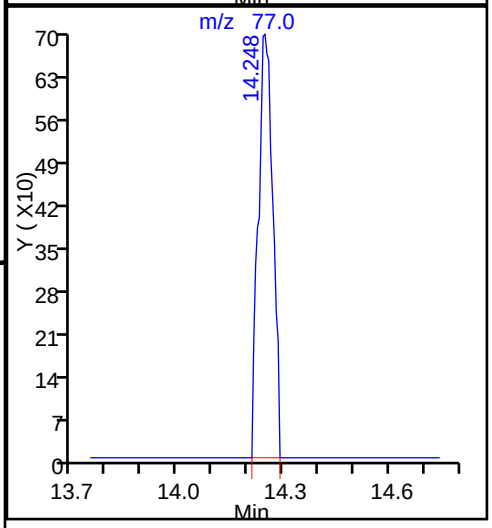
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

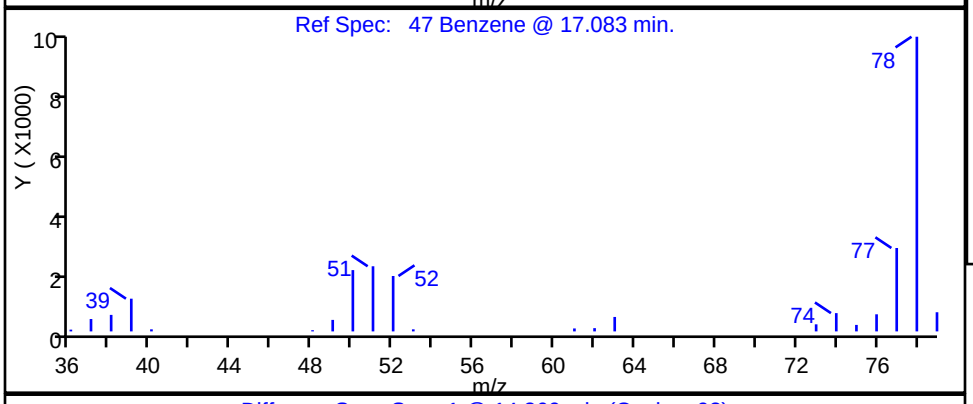
47 Benzene, CAS: 71-43-2

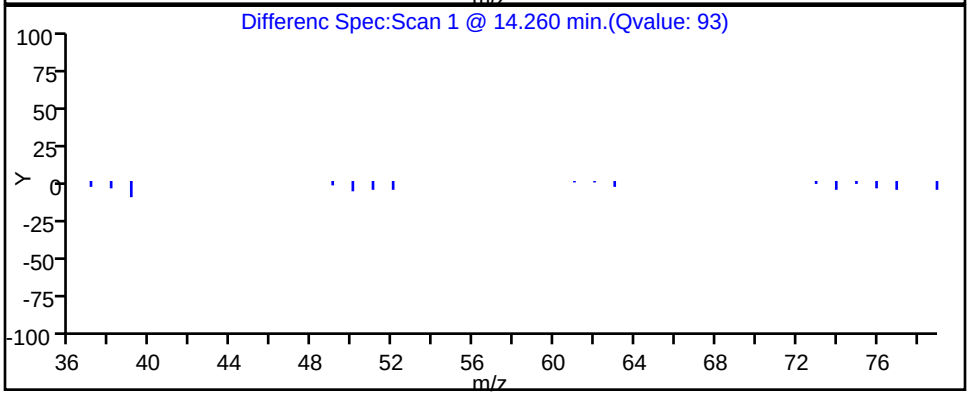










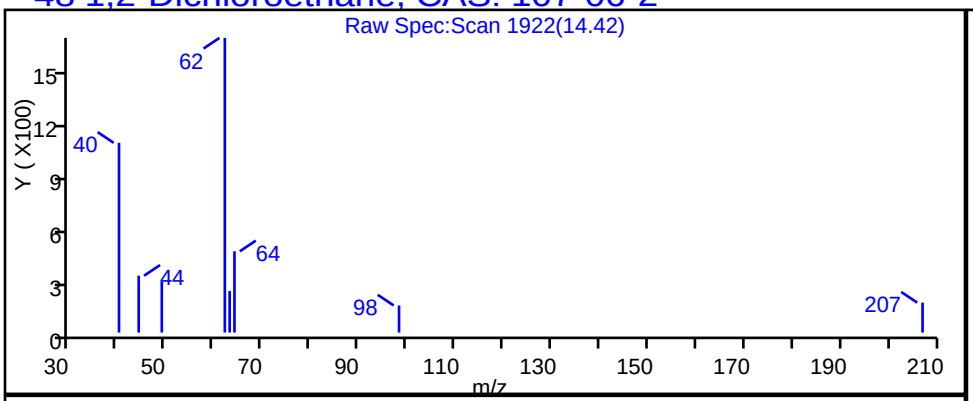


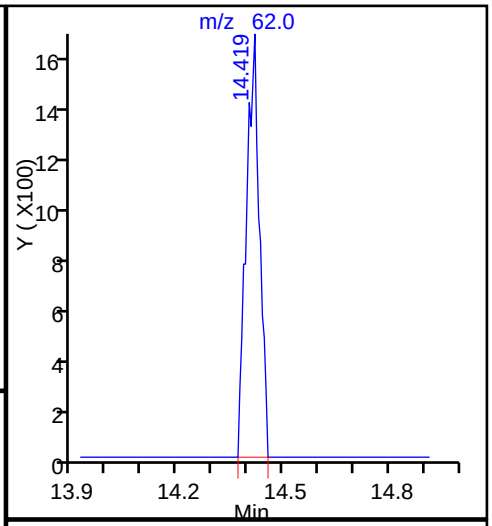
Report Date: 01-Oct-2015 12:53:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

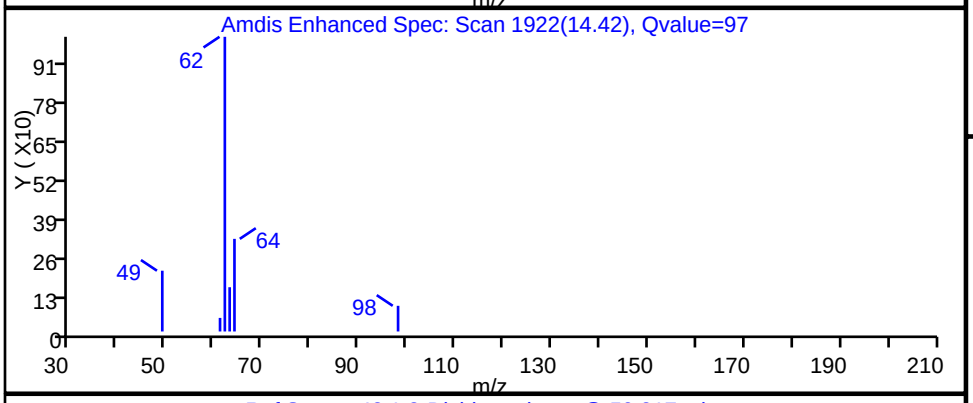
TestAmerica Burlington

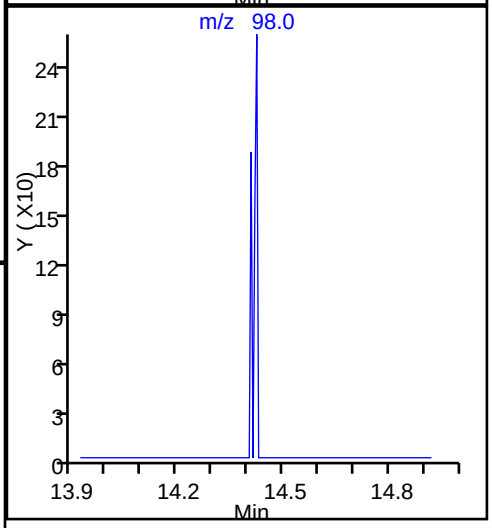
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

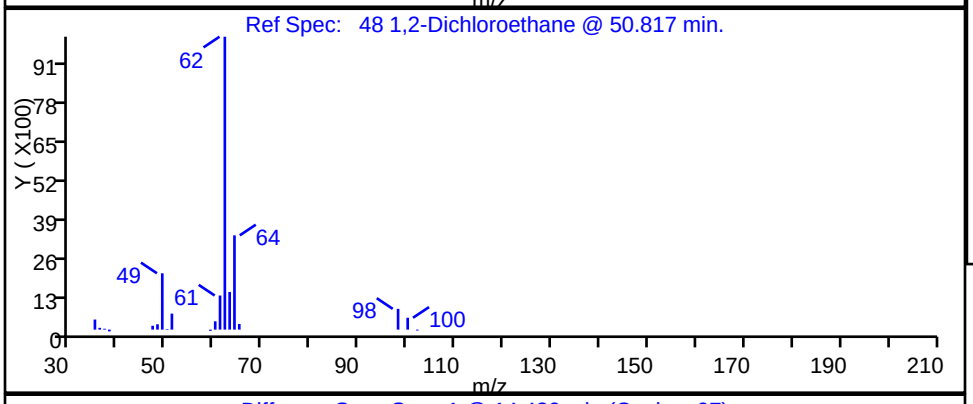
48 1,2-Dichloroethane, CAS: 107-06-2

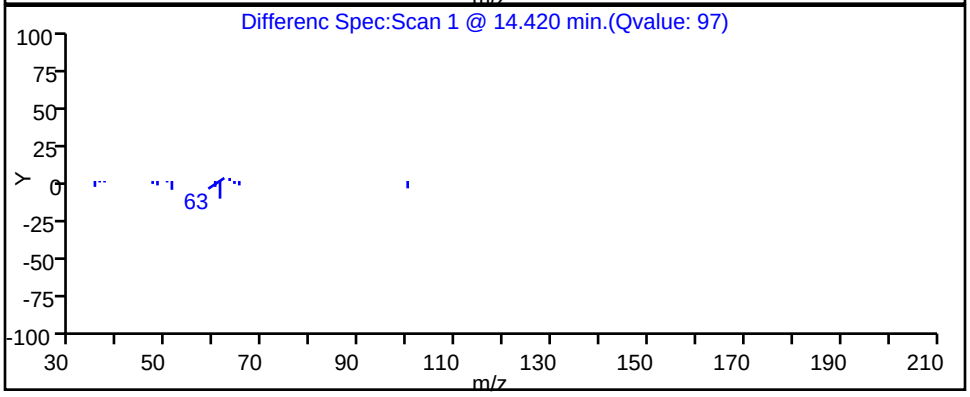












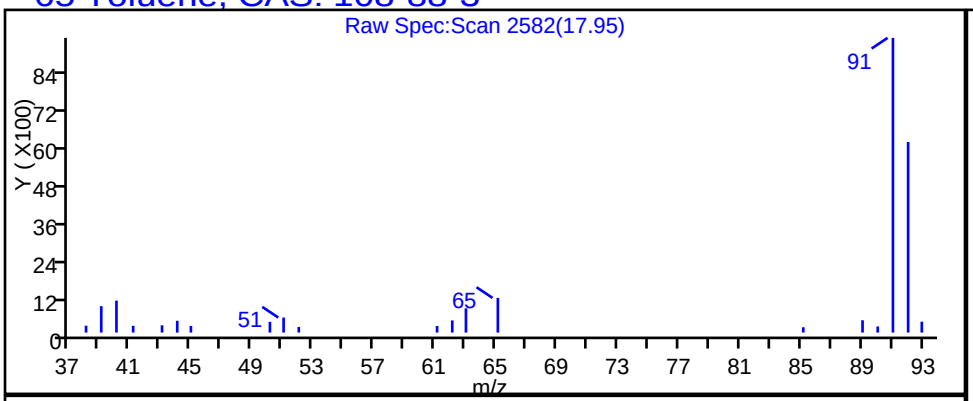
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

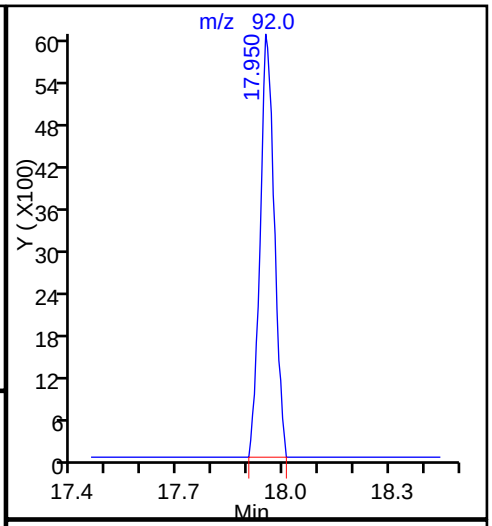
TestAmerica Burlington

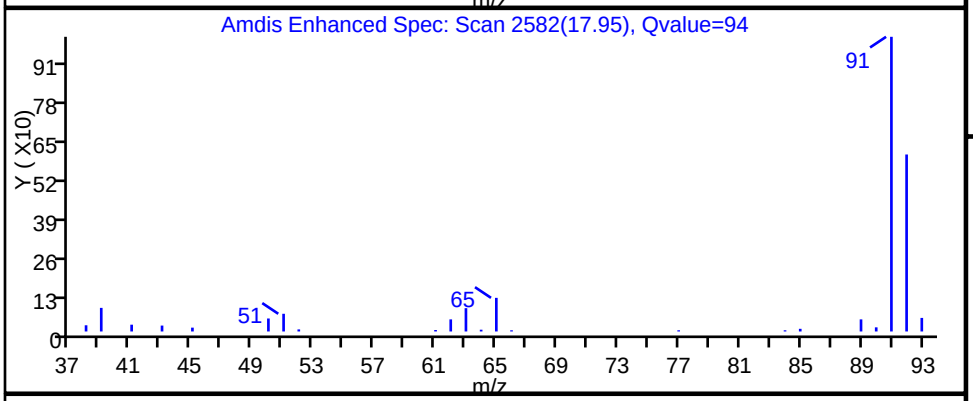
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

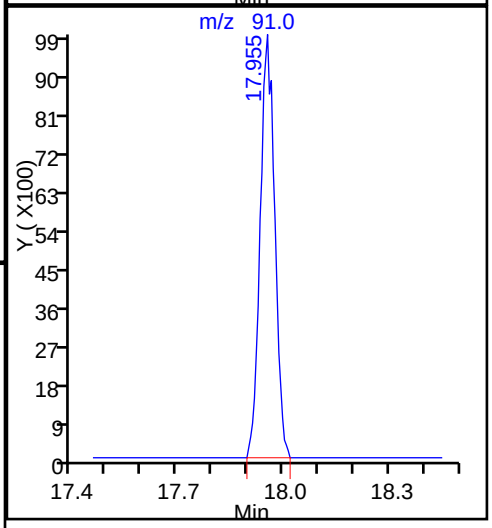
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

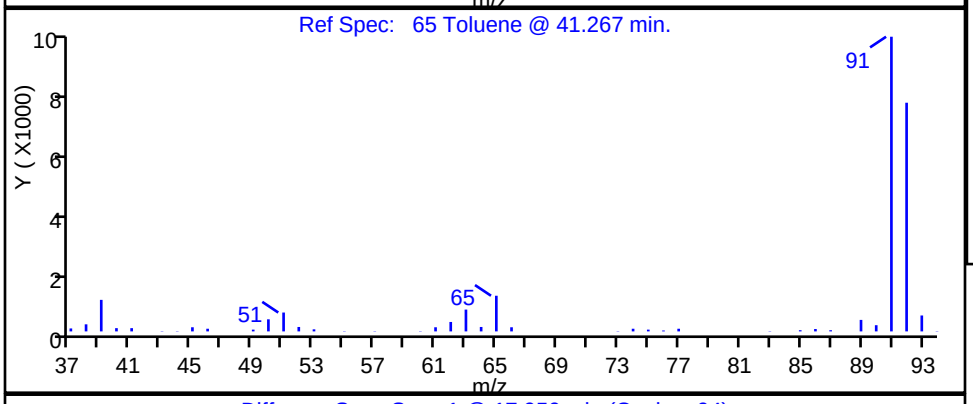
65 Toluene, CAS: 108-88-3

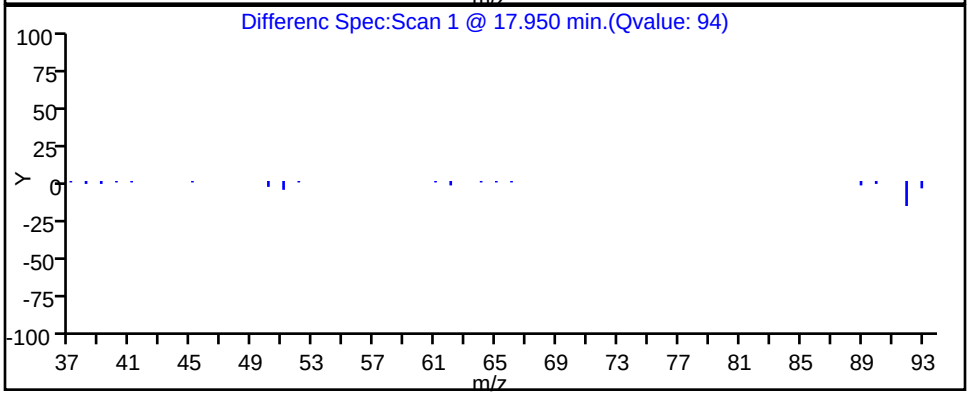












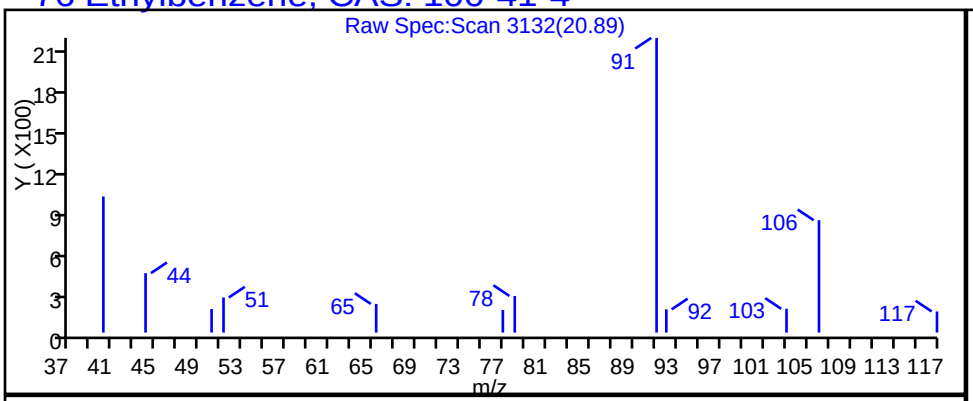
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

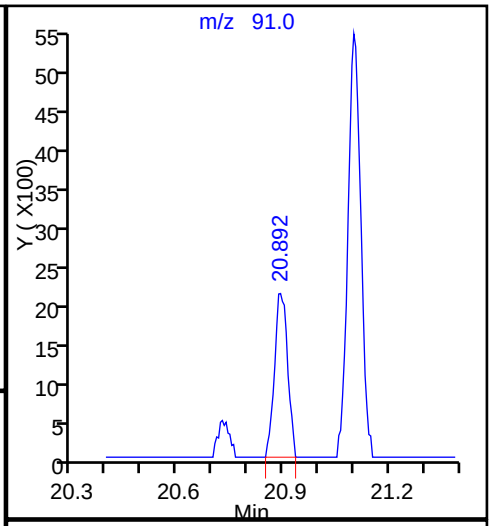
TestAmerica Burlington

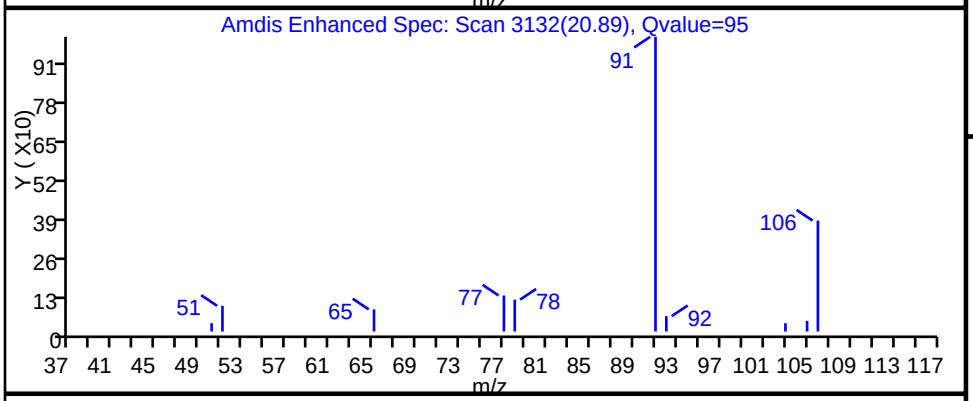
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

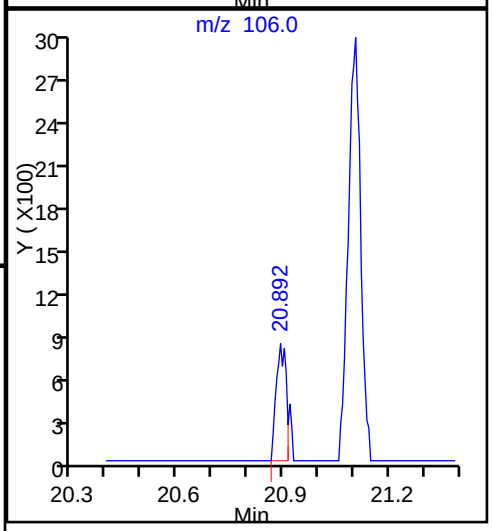
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

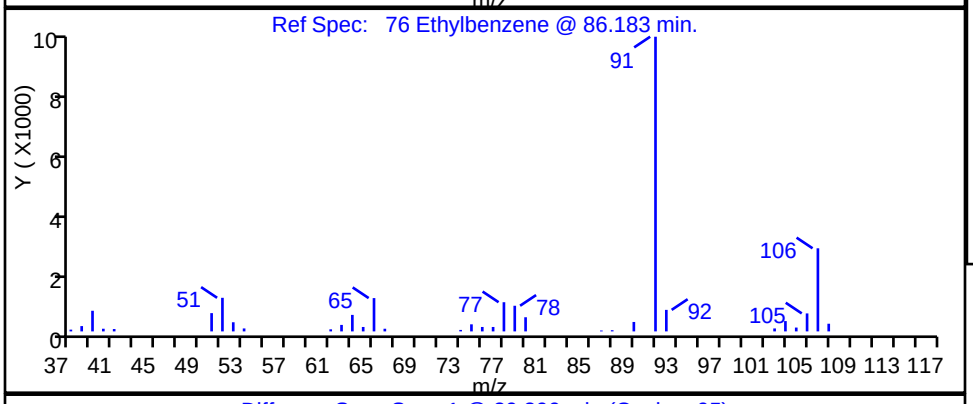
76 Ethylbenzene, CAS: 100-41-4

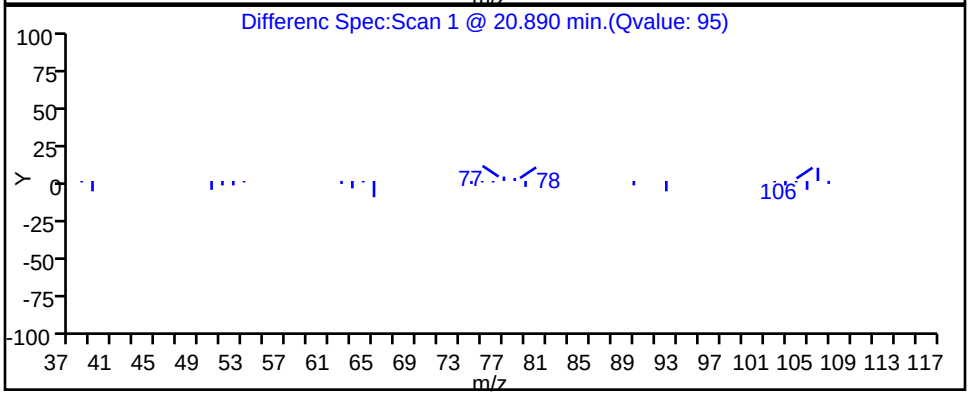










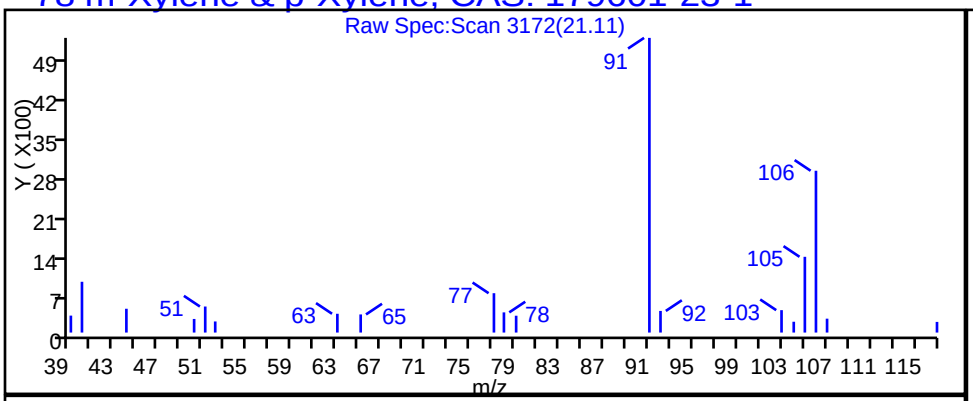


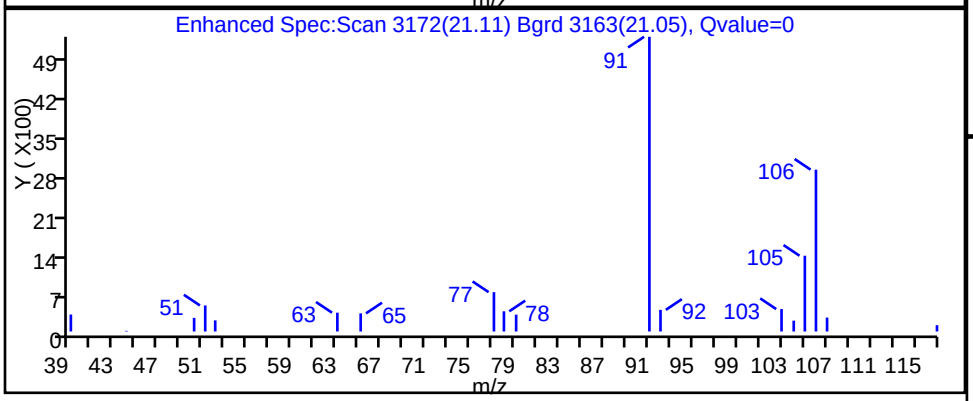
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

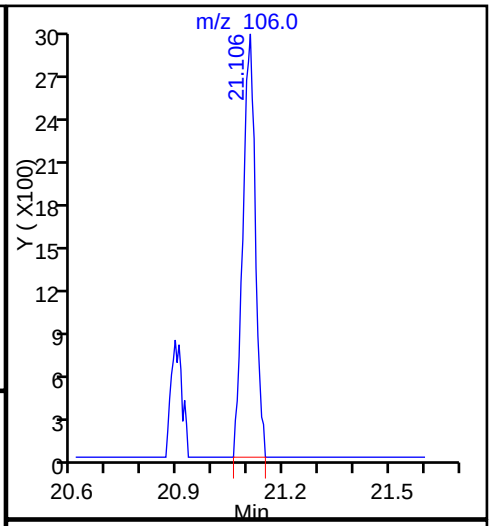
TestAmerica Burlington

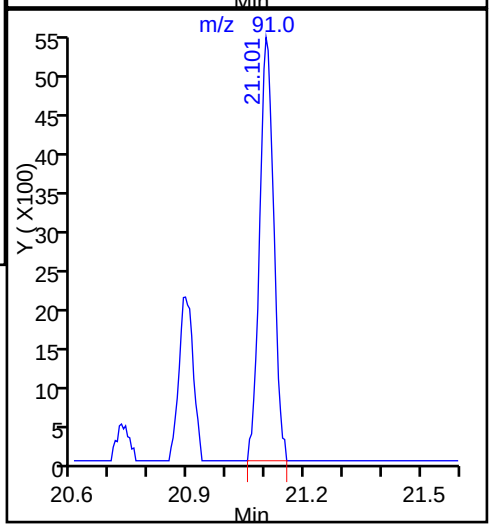
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







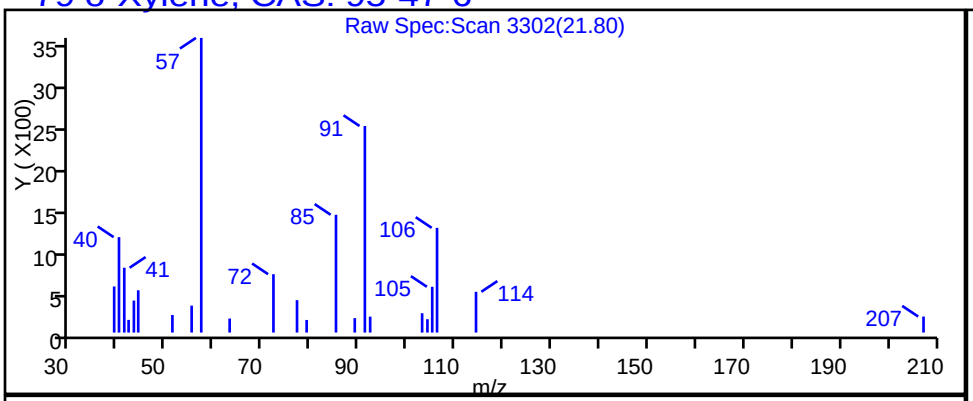


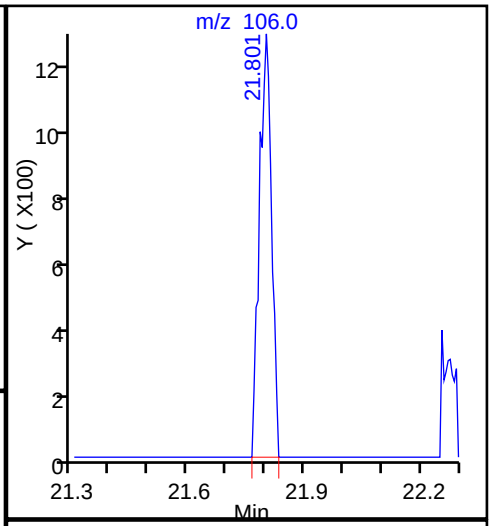
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

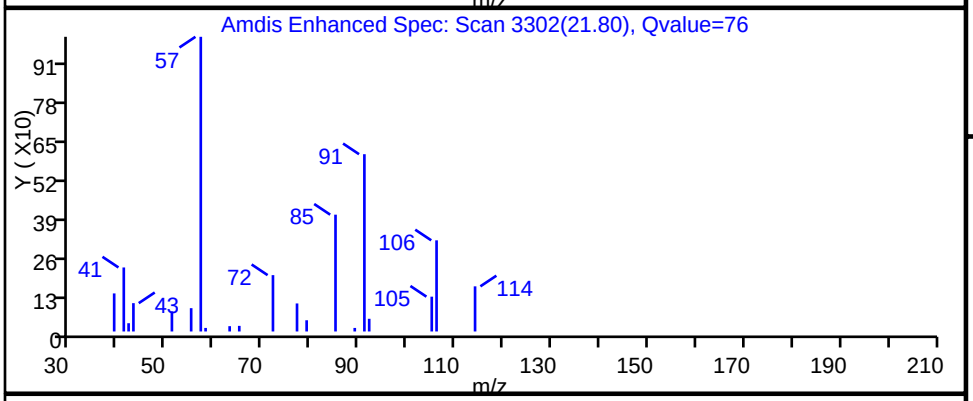
TestAmerica Burlington

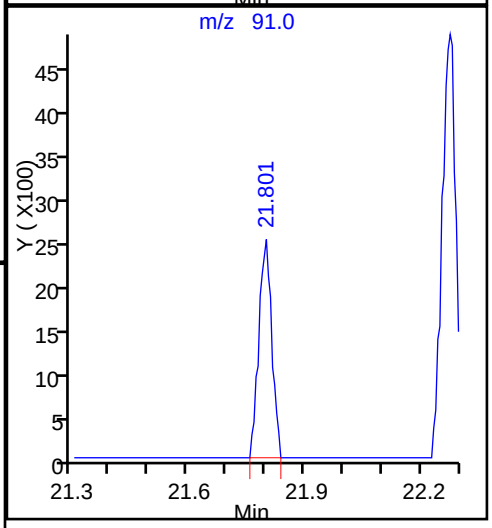
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

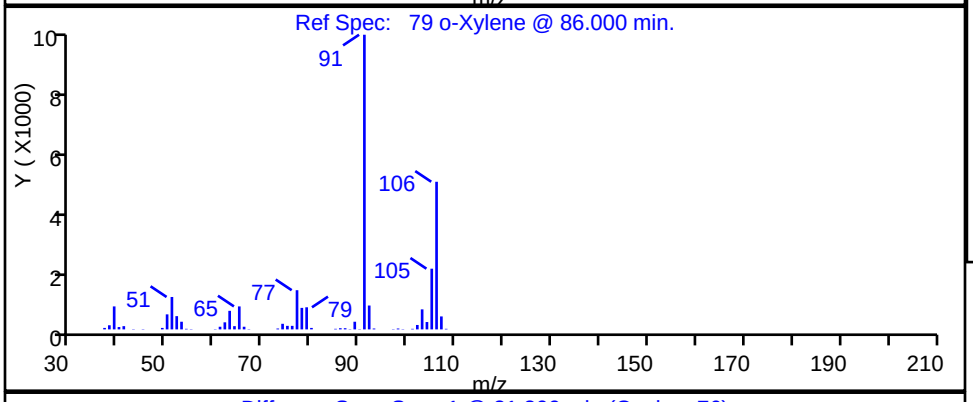
79 o-Xylene, CAS: 95-47-6

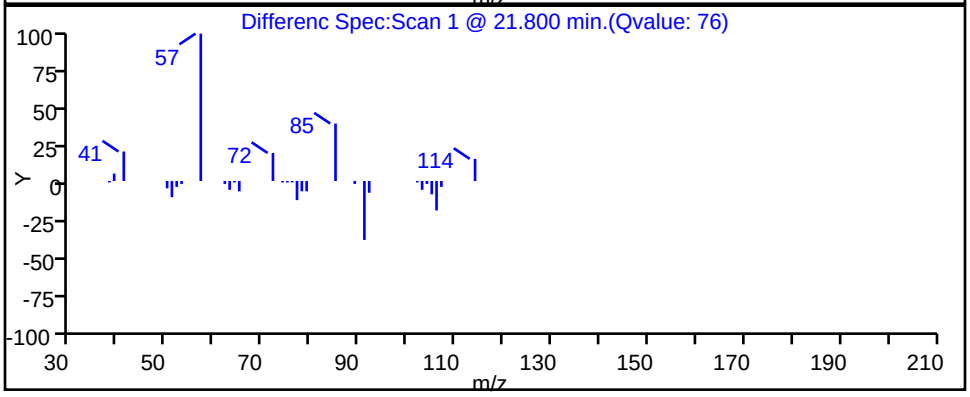










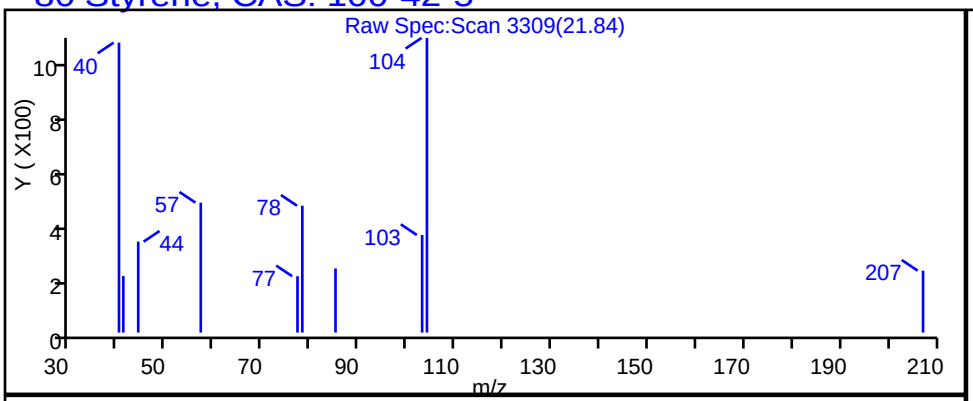


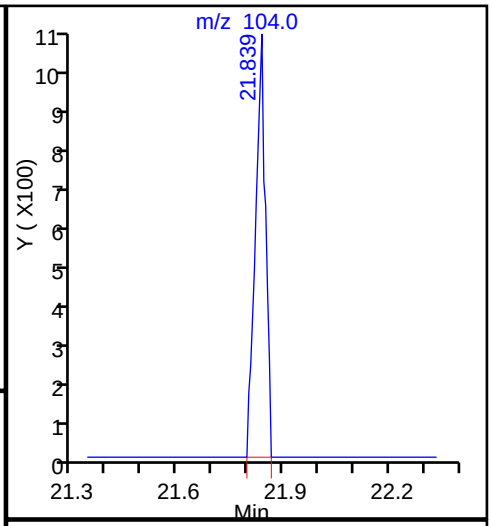
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

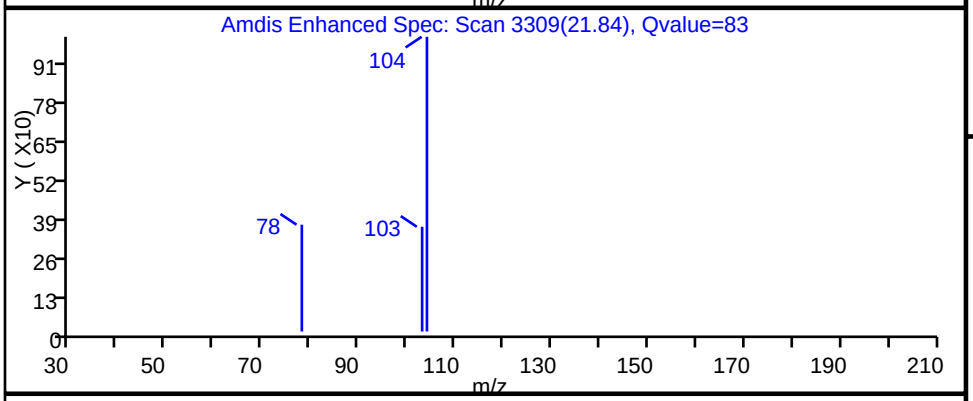
TestAmerica Burlington

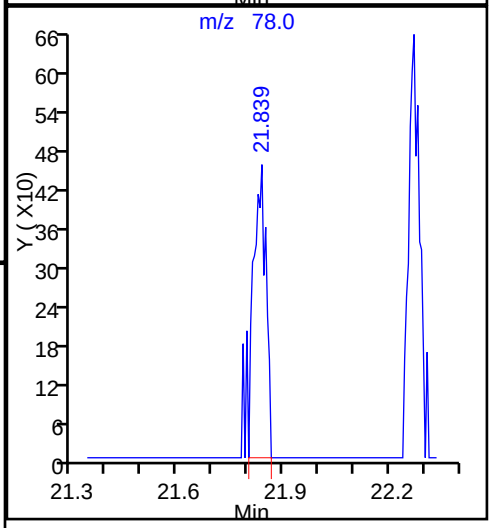
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

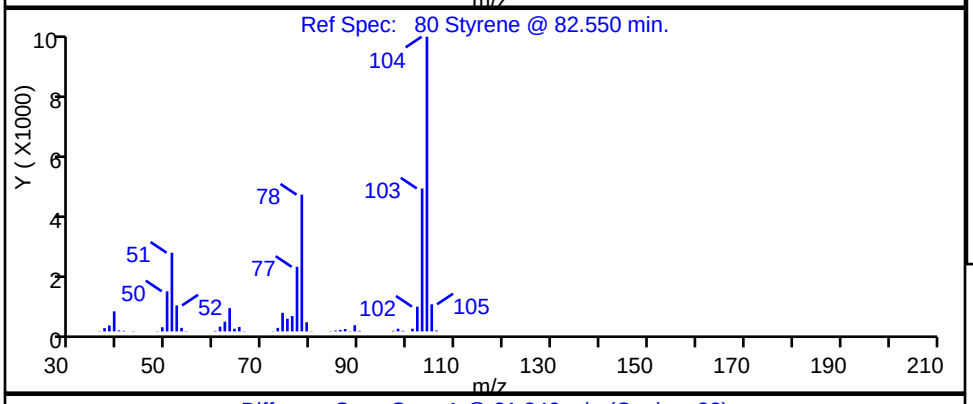
80 Styrene, CAS: 100-42-5

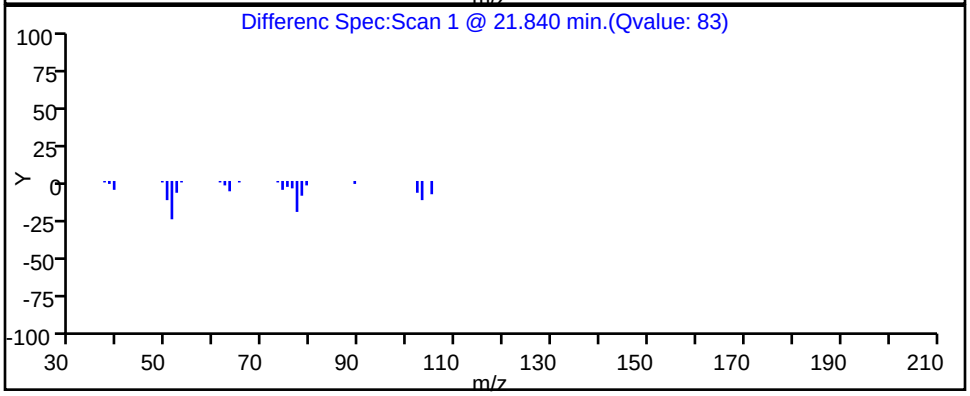












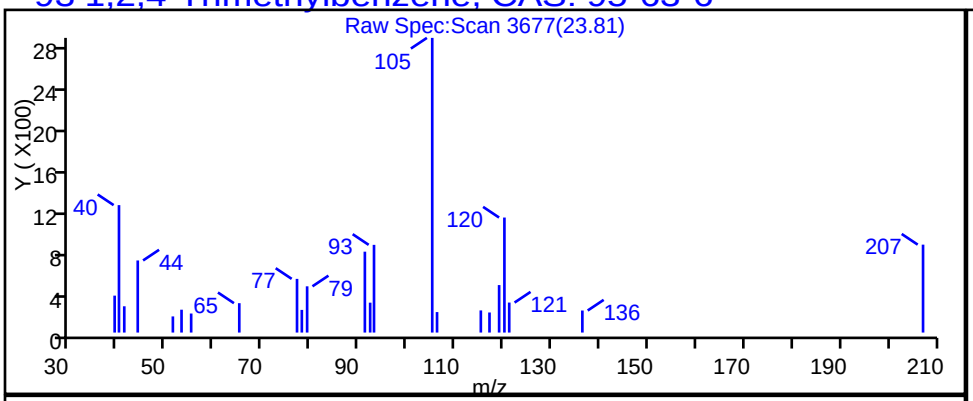
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

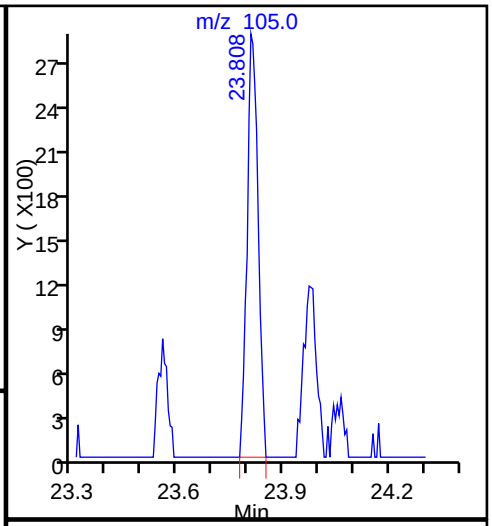
TestAmerica Burlington

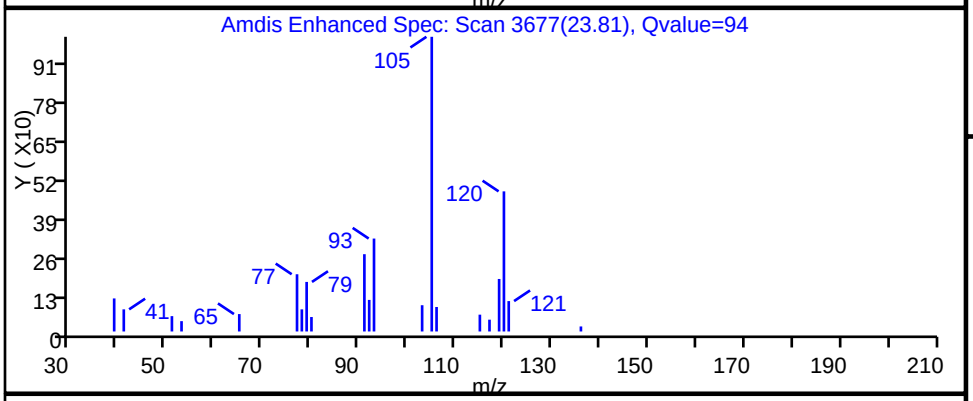
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

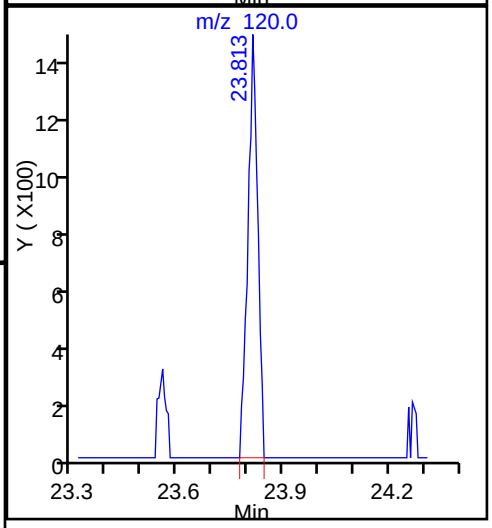
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

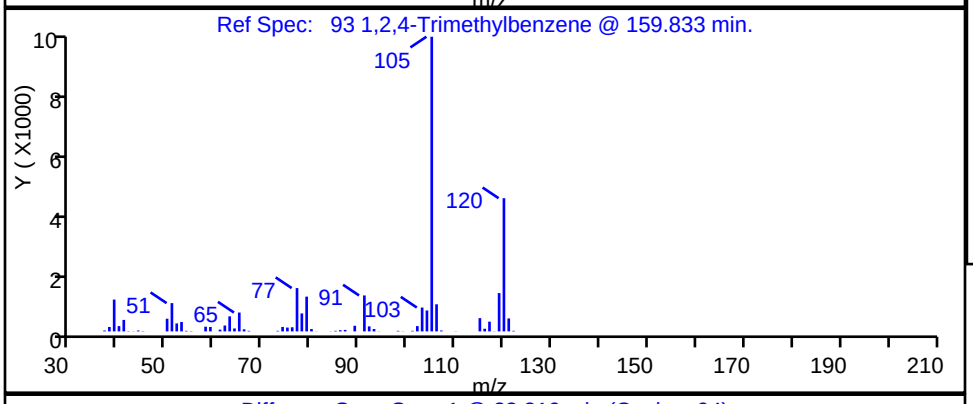
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

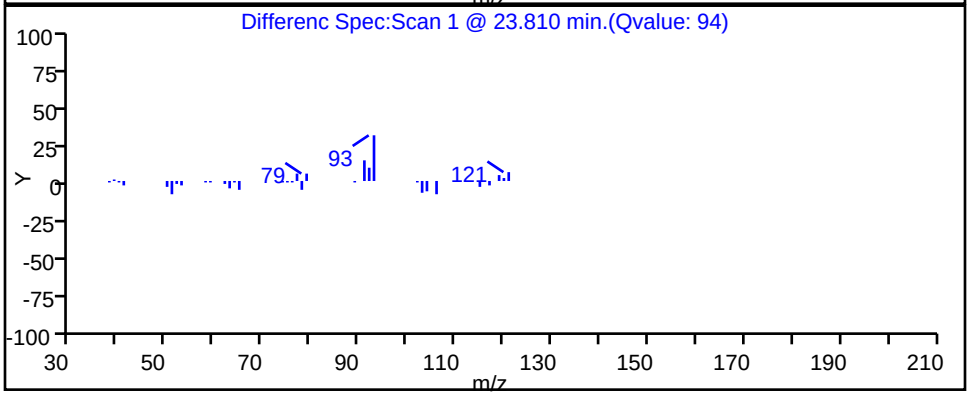












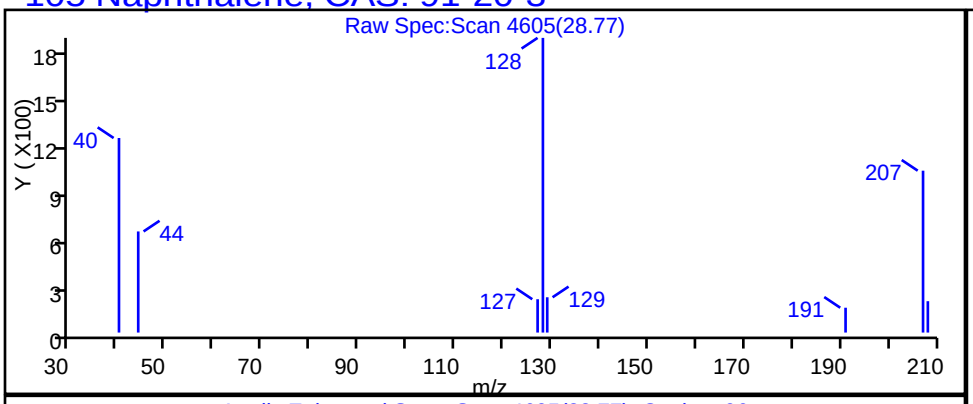
Report Date: 01-Oct-2015 12:53:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

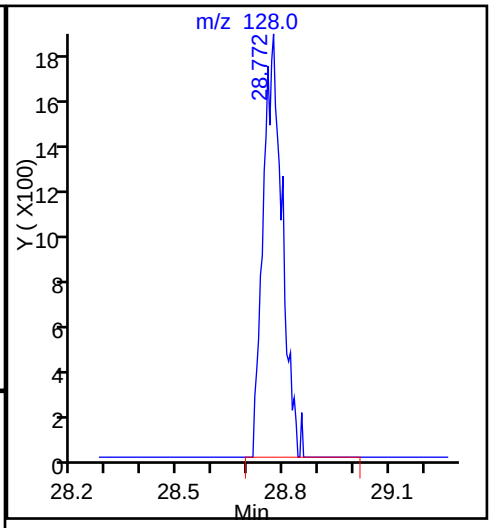
TestAmerica Burlington

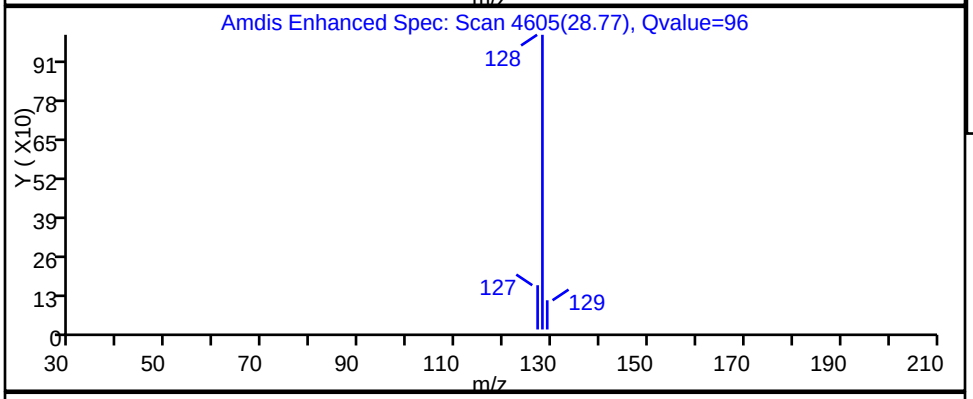
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d

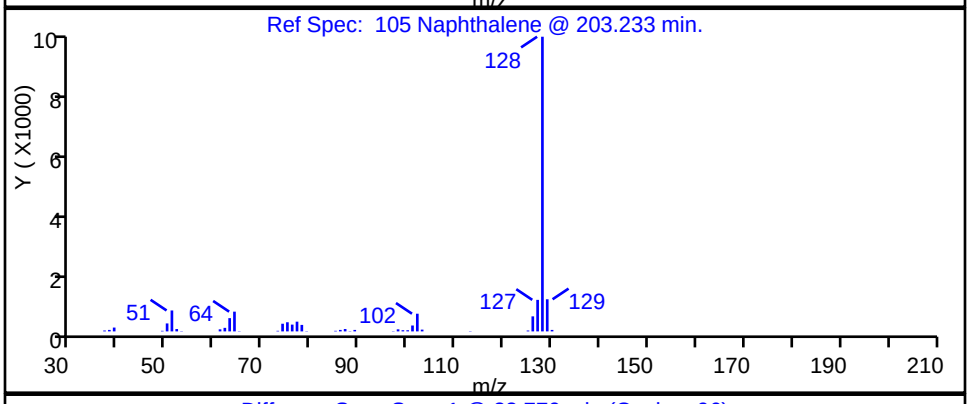
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

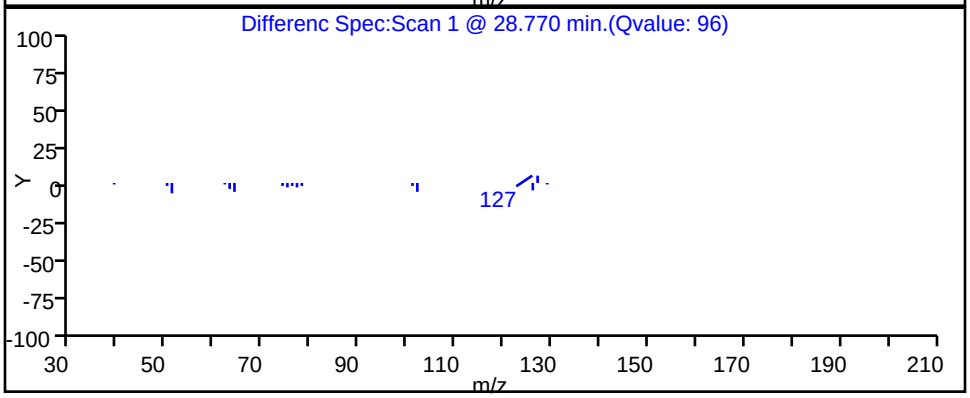
105 Naphthalene, CAS: 91-20-3











Manual Integration/User Assign Peak Report

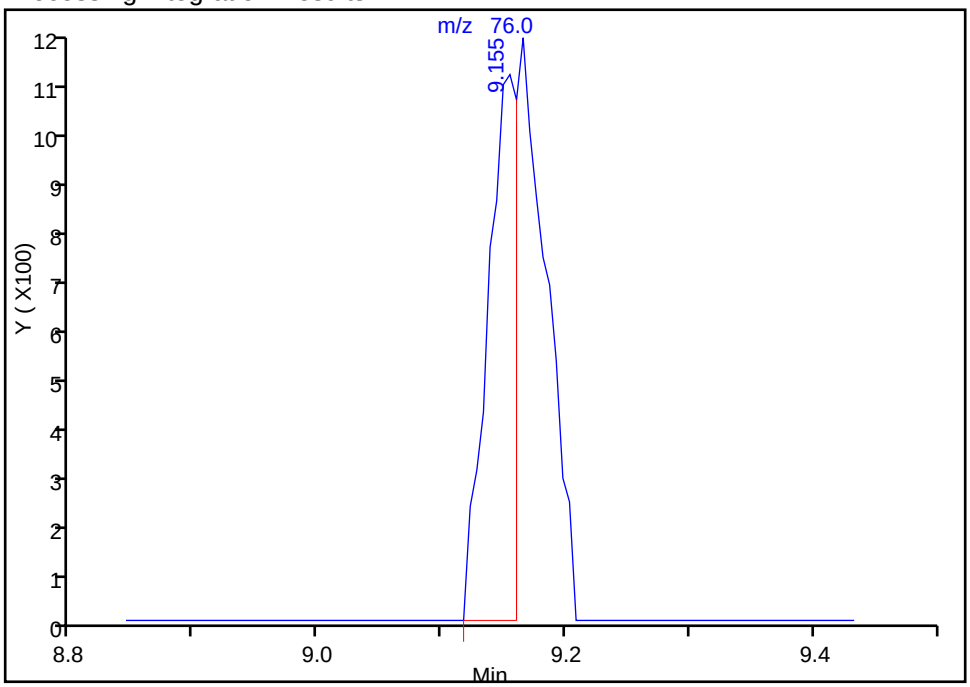
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0

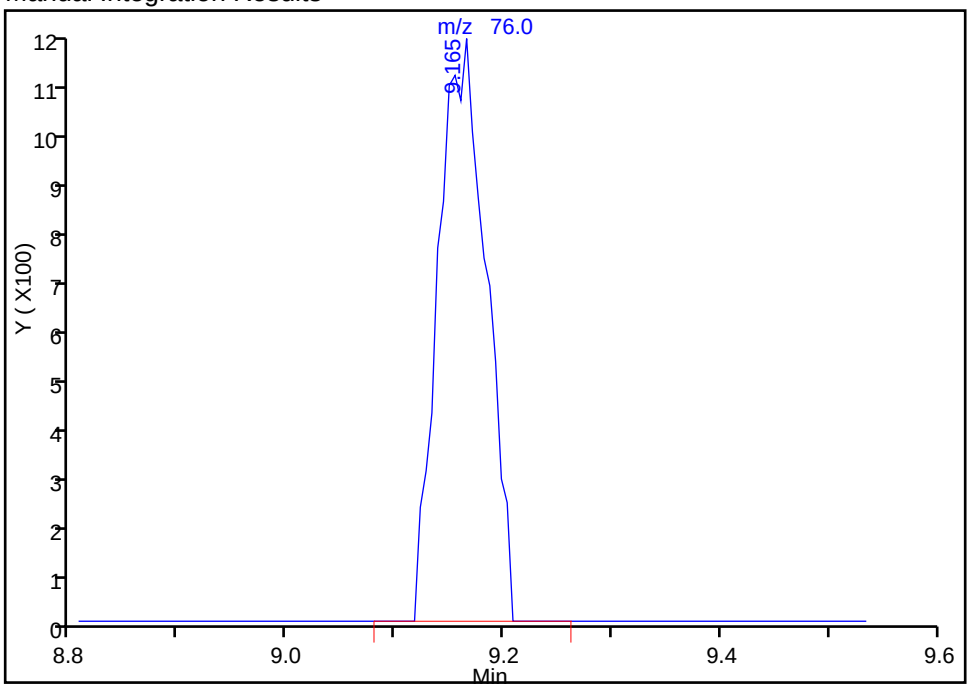
Processing Integration Results

RT: 9.15
Area: 1824
Amount: 0.053906
Amount Units: ppb v/v



Manual Integration Results

RT: 9.17
Area: 3552
Amount: 0.104974
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:19:47
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

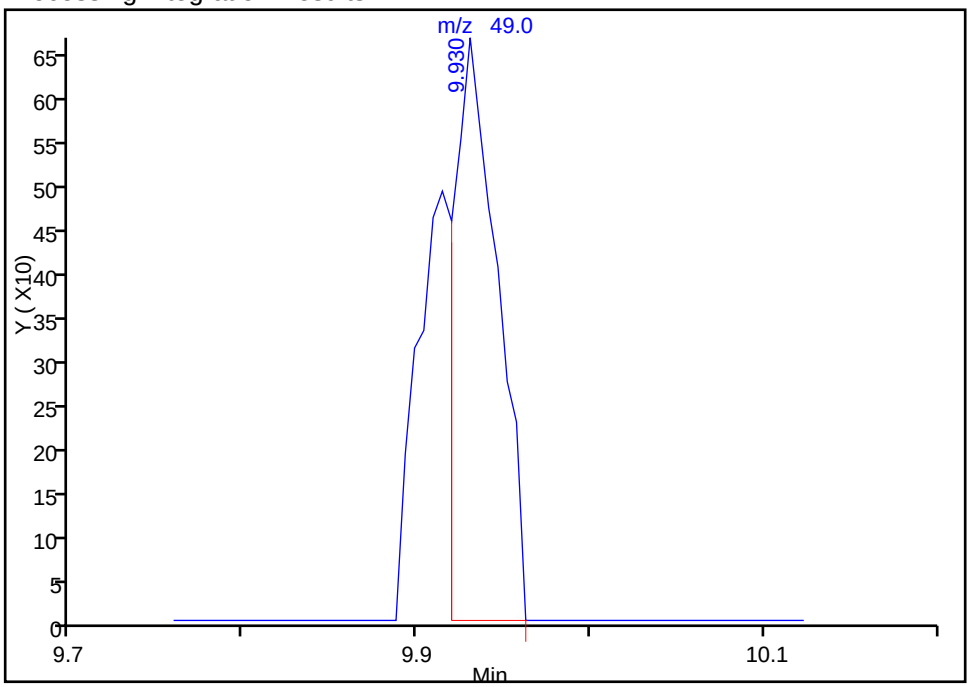
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

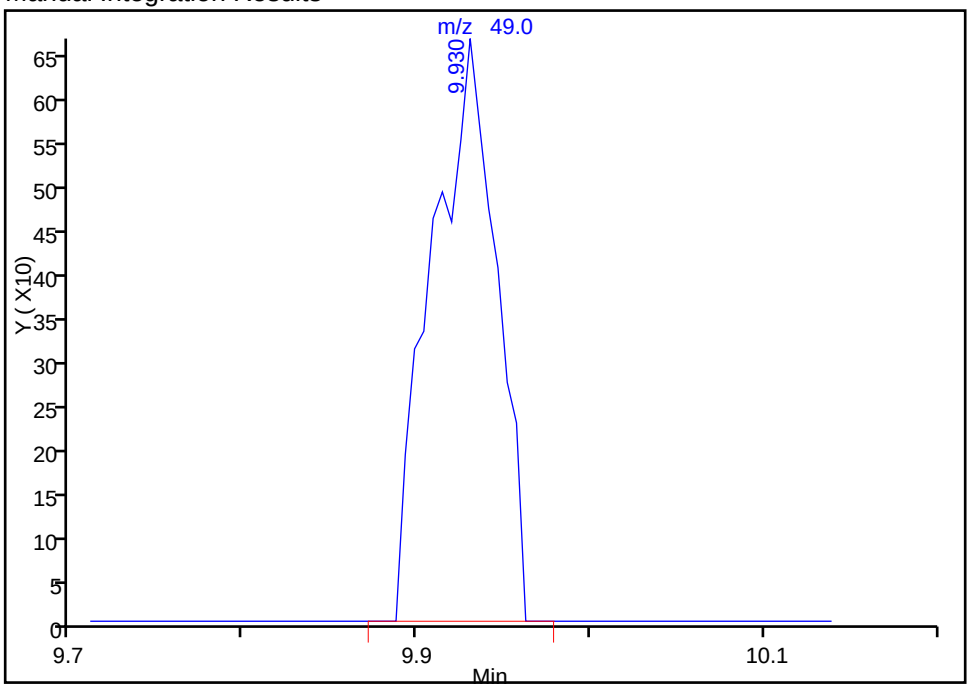
Processing Integration Results

RT: 9.93
Area: 1152
Amount: 0.103355
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 1721
Amount: 0.154405
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:19:47
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

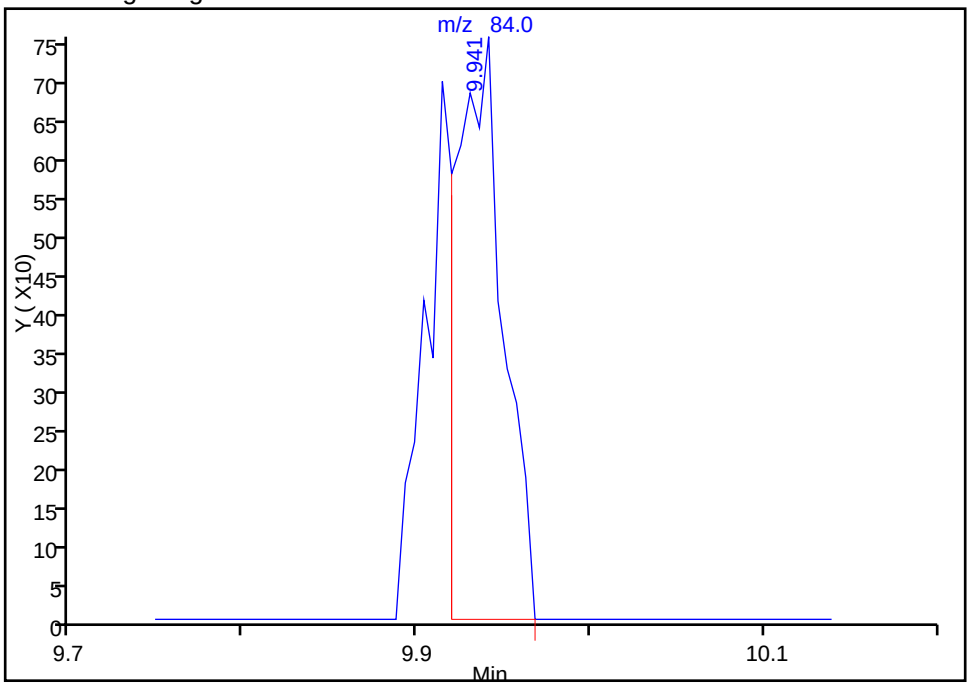
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

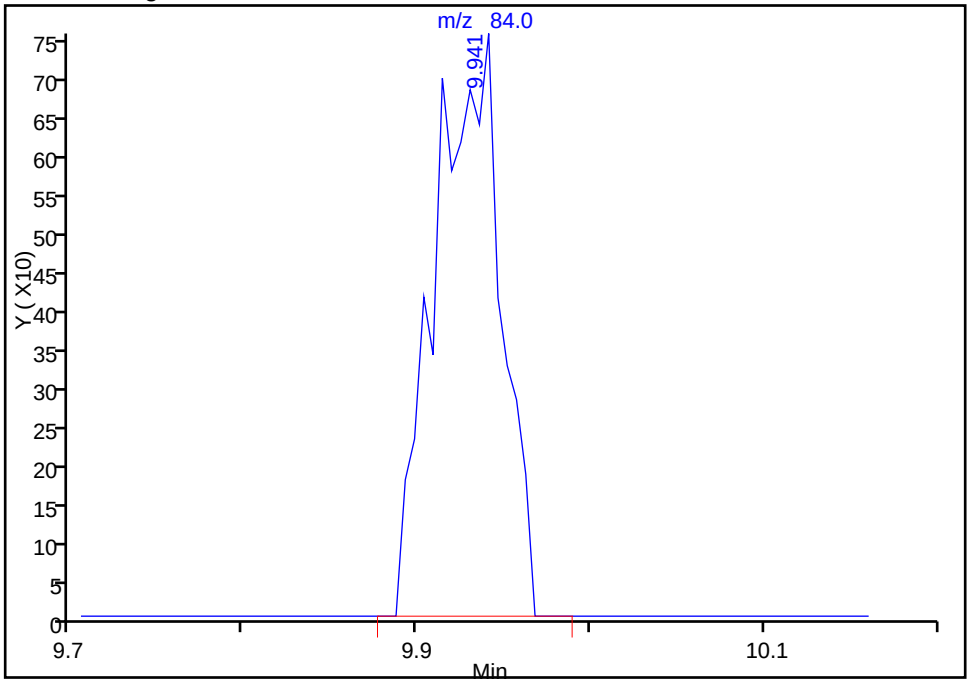
Processing Integration Results

RT: 9.94
Area: 1436
Amount: 0.103355
Amount Units: ppb v/v



Manual Integration Results

RT: 9.94
Area: 2032
Amount: 0.154405
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:19:47
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

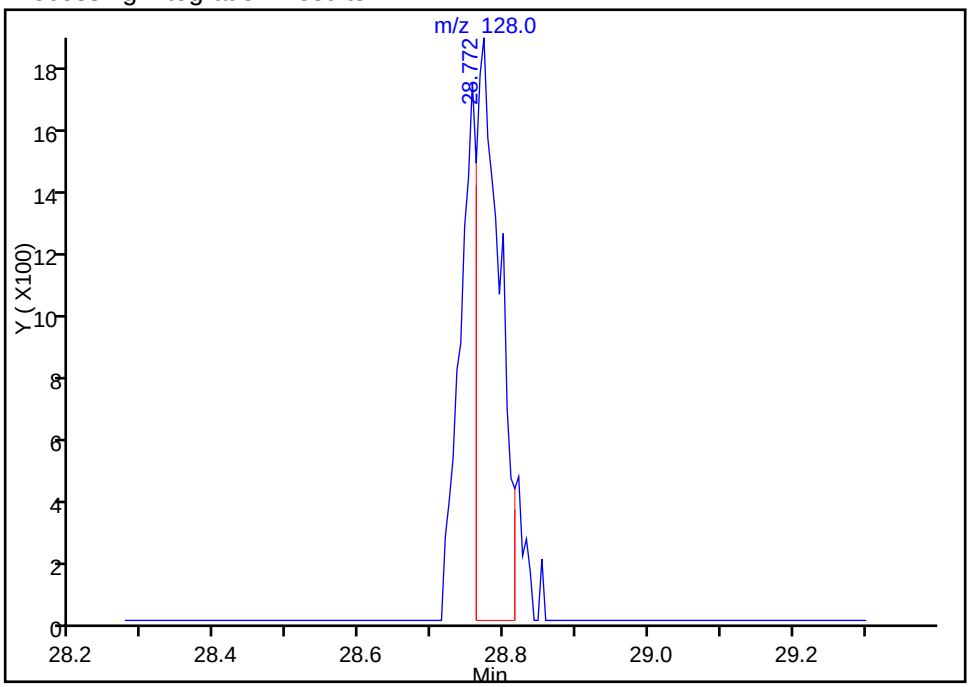
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_010.d				
Injection Date:	30-Sep-2015 18:31:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-16	Lab Sample ID:	200-29972-16		
Client ID:	FR-IA08-092315				
Operator ID:	pad	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	200.000 mL	Dil. Factor:	2.9900		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

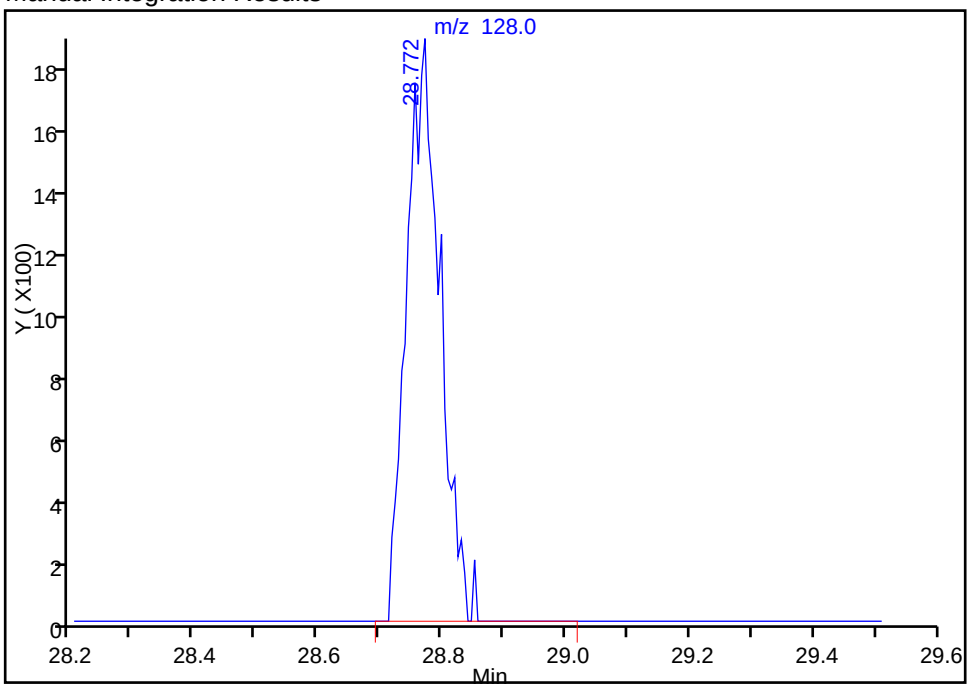
Processing Integration Results

RT: 28.77
Area: 4089
Amount: 0.036398
Amount Units: ppb v/v



Manual Integration Results

RT: 28.77
Area: 6742
Amount: 0.060013
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:19:47
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS09-092315 | Lab Sample ID: 200-29972-17

Matrix: Air | Lab File ID: 16087_23.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:27

Sample wt/vol: 100(mL) | Date Analyzed: 10/06/2015 02:44

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.82	J	1.0	0.16
75-45-6	Freon 22	86.47	0.36	J	1.0	0.11
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.40	U	0.40	0.076
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.19
106-97-8	n-Butane	58.12	0.99	J	1.0	0.16
75-01-4	Vinyl chloride	62.50	0.080	U	0.080	0.064
106-99-0	1,3-Butadiene	54.09	0.40	U	0.40	0.18
74-83-9	Bromomethane	94.94	0.40	U	0.40	0.11
75-00-3	Chloroethane	64.52	1.0	U	1.0	0.17
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.40	U	0.40	0.088
75-69-4	Trichlorofluoromethane	137.37	46		0.40	0.076
76-13-1	Freon TF	187.38	0.40	U	0.40	0.15
75-35-4	1,1-Dichloroethene	96.94	0.28	J	0.40	0.072
67-64-1	Acetone	58.08	6.0	J	10	1.7
67-63-0	Isopropyl alcohol	60.10	10	U	10	2.0
75-15-0	Carbon disulfide	76.14	4.5		1.0	0.086
107-05-1	3-Chloropropene	76.53	1.0	U	1.0	0.14
75-09-2	Methylene Chloride	84.93	0.42	J	1.0	0.36
75-65-0	tert-Butyl alcohol	74.12	10	U	10	1.7
1634-04-4	Methyl tert-butyl ether	88.15	0.40	U	0.40	0.18
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.086
110-54-3	n-Hexane	86.17	0.81		0.40	0.11
75-34-3	1,1-Dichloroethane	98.96	1.6		0.40	0.050
78-93-3	Methyl Ethyl Ketone	72.11	0.79	J	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.070
540-59-0	1,2-Dichloroethene, Total	96.94	0.80	U	0.80	0.070
67-66-3	Chloroform	119.38	0.40	U	0.40	0.16
109-99-9	Tetrahydrofuran	72.11	10	U	10	2.8
71-55-6	1,1,1-Trichloroethane	133.41	51		0.40	0.092
110-82-7	Cyclohexane	84.16	0.40	U	0.40	0.078
56-23-5	Carbon tetrachloride	153.81	0.080	U	0.080	0.064
540-84-1	2,2,4-Trimethylpentane	114.23	0.18	J	0.40	0.078
71-43-2	Benzene	78.11	0.33	J	0.40	0.084
107-06-2	1,2-Dichloroethane	98.96	0.40	U	0.40	0.082

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS09-092315 Lab Sample ID: 200-29972-17

Matrix: Air Lab File ID: 16087_23.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:27

Sample wt/vol: 100(mL) Date Analyzed: 10/06/2015 02:44

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.36	J	0.40	0.080
79-01-6	Trichloroethene	131.39	10		0.080	0.078
80-62-6	Methyl methacrylate	100.12	1.0	U	1.0	0.080
78-87-5	1,2-Dichloropropane	112.99	0.40	U	0.40	0.054
123-91-1	1,4-Dioxane	88.11	10	U	10	1.1
75-27-4	Bromodichloromethane	163.83	0.40	U	0.40	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	0.40	U	0.40	0.046
108-10-1	methyl isobutyl ketone	100.16	0.38	J	1.0	0.10
108-88-3	Toluene	92.14	0.82		0.40	0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	0.40	U	0.40	0.068
79-00-5	1,1,2-Trichloroethane	133.41	0.40	U	0.40	0.078
127-18-4	Tetrachloroethene	165.83	0.37	J	0.40	0.046
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.0	U	1.0	0.11
124-48-1	Dibromochloromethane	208.29	0.40	U	0.40	0.088
106-93-4	1,2-Dibromoethane	187.87	0.40	U	0.40	0.078
108-90-7	Chlorobenzene	112.56	0.40	U	0.40	0.098
100-41-4	Ethylbenzene	106.17	0.11	J	0.40	0.066
179601-23-1	m,p-Xylene	106.17	0.60	J	1.0	0.14
95-47-6	Xylene, o-	106.17	0.16	J	0.40	0.074
1330-20-7	Xylene (total)	106.17	0.76	J	1.4	0.074
100-42-5	Styrene	104.15	0.40	U	0.40	0.086
75-25-2	Bromoform	252.75	0.40	U	0.40	0.11
98-82-8	Cumene	120.19	0.098	J	0.40	0.060
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.40	U	0.40	0.088
103-65-1	n-Propylbenzene	120.19	0.40	U	0.40	0.086
622-96-8	4-Ethyltoluene	120.20	0.40	U	0.40	0.088
108-67-8	1,3,5-Trimethylbenzene	120.20	0.40	U	0.40	0.078
95-49-8	2-Chlorotoluene	126.59	0.40	U	0.40	0.066
98-06-6	tert-Butylbenzene	134.22	0.40	U	0.40	0.088
95-63-6	1,2,4-Trimethylbenzene	120.20	0.40	U	0.40	0.086
135-98-8	sec-Butylbenzene	134.22	0.40	U	0.40	0.088
99-87-6	4-Isopropyltoluene	134.22	0.40	U	0.40	0.074
541-73-1	1,3-Dichlorobenzene	147.00	0.40	U	0.40	0.11
106-46-7	1,4-Dichlorobenzene	147.00	0.40	U	0.40	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS09-092315 Lab Sample ID: 200-29972-17

Matrix: Air Lab File ID: 16087_23.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:27

Sample wt/vol: 100(mL) Date Analyzed: 10/06/2015 02:44

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.40	U	0.40	0.11
104-51-8	n-Butylbenzene	134.22	0.40	U	0.40	0.094
95-50-1	1,2-Dichlorobenzene	147.00	0.40	U	0.40	0.11
120-82-1	1,2,4-Trichlorobenzene	181.45	1.0	U	1.0	0.14
87-68-3	Hexachlorobutadiene	260.76	0.40	U	0.40	0.16
91-20-3	Naphthalene	128.17	1.0	U	1.0	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS09-092315 | Lab Sample ID: 200-29972-17

Matrix: Air | Lab File ID: 16087_23.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:27

Sample wt/vol: 100(mL) | Date Analyzed: 10/06/2015 02:44

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	4.0	J	4.9	0.79
75-45-6	Freon 22	86.47	1.3	J	3.5	0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.8	U	2.8	0.53
74-87-3	Chloromethane	50.49	2.1	U	2.1	0.38
106-97-8	n-Butane	58.12	2.3	J	2.4	0.37
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.16
106-99-0	1,3-Butadiene	54.09	0.88	U	0.88	0.39
74-83-9	Bromomethane	94.94	1.6	U	1.6	0.43
75-00-3	Chloroethane	64.52	2.6	U	2.6	0.45
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.7	U	1.7	0.38
75-69-4	Trichlorofluoromethane	137.37	260		2.2	0.43
76-13-1	Freon TF	187.38	3.1	U	3.1	1.1
75-35-4	1,1-Dichloroethene	96.94	1.1	J	1.6	0.29
67-64-1	Acetone	58.08	14	J	24	4.1
67-63-0	Isopropyl alcohol	60.10	25	U	25	4.8
75-15-0	Carbon disulfide	76.14	14		3.1	0.27
107-05-1	3-Chloropropene	76.53	3.1	U	3.1	0.43
75-09-2	Methylene Chloride	84.93	1.5	J	3.5	1.3
75-65-0	tert-Butyl alcohol	74.12	30	U	30	5.2
1634-04-4	Methyl tert-butyl ether	88.15	1.4	U	1.4	0.64
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	0.34
110-54-3	n-Hexane	86.17	2.8		1.4	0.38
75-34-3	1,1-Dichloroethane	98.96	6.5		1.6	0.20
78-93-3	Methyl Ethyl Ketone	72.11	2.3	J	2.9	0.31
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	0.28
540-59-0	1,2-Dichloroethene, Total	96.94	3.2	U	3.2	0.28
67-66-3	Chloroform	119.38	2.0	U	2.0	0.80
109-99-9	Tetrahydrofuran	72.11	29	U	29	8.3
71-55-6	1,1,1-Trichloroethane	133.41	280		2.2	0.50
110-82-7	Cyclohexane	84.16	1.4	U	1.4	0.27
56-23-5	Carbon tetrachloride	153.81	0.50	U	0.50	0.40
540-84-1	2,2,4-Trimethylpentane	114.23	0.83	J	1.9	0.36
71-43-2	Benzene	78.11	1.1	J	1.3	0.27
107-06-2	1,2-Dichloroethane	98.96	1.6	U	1.6	0.33

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS09-092315 Lab Sample ID: 200-29972-17

Matrix: Air Lab File ID: 16087_23.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:27

Sample wt/vol: 100(mL) Date Analyzed: 10/06/2015 02:44

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.5	J	1.6	0.33
79-01-6	Trichloroethene	131.39	55		0.43	0.42
80-62-6	Methyl methacrylate	100.12	4.1	U	4.1	0.33
78-87-5	1,2-Dichloropropane	112.99	1.8	U	1.8	0.25
123-91-1	1,4-Dioxane	88.11	36	U	36	4.0
75-27-4	Bromodichloromethane	163.83	2.7	U	2.7	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	1.8	U	1.8	0.21
108-10-1	methyl isobutyl ketone	100.16	1.6	J	4.1	0.41
108-88-3	Toluene	92.14	3.1		1.5	0.70
10061-02-6	trans-1,3-Dichloropropene	110.97	1.8	U	1.8	0.31
79-00-5	1,1,2-Trichloroethane	133.41	2.2	U	2.2	0.43
127-18-4	Tetrachloroethene	165.83	2.5	J	2.7	0.31
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	4.1	U	4.1	0.47
124-48-1	Dibromochloromethane	208.29	3.4	U	3.4	0.75
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	0.60
108-90-7	Chlorobenzene	112.56	1.8	U	1.8	0.45
100-41-4	Ethylbenzene	106.17	0.47	J	1.7	0.29
179601-23-1	m,p-Xylene	106.17	2.6	J	4.3	0.62
95-47-6	Xylene, o-	106.17	0.70	J	1.7	0.32
1330-20-7	Xylene (total)	106.17	3.3	J	6.1	0.32
100-42-5	Styrene	104.15	1.7	U	1.7	0.37
75-25-2	Bromoform	252.75	4.1	U	4.1	1.2
98-82-8	Cumene	120.19	0.48	J	2.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.7	U	2.7	0.60
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.42
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.43
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.38
95-49-8	2-Chlorotoluene	126.59	2.1	U	2.1	0.34
98-06-6	tert-Butylbenzene	134.22	2.2	U	2.2	0.48
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.42
135-98-8	sec-Butylbenzene	134.22	2.2	U	2.2	0.48
99-87-6	4-Isopropyltoluene	134.22	2.2	U	2.2	0.41
541-73-1	1,3-Dichlorobenzene	147.00	2.4	U	2.4	0.66
106-46-7	1,4-Dichlorobenzene	147.00	2.4	U	2.4	0.69

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS09-092315 Lab Sample ID: 200-29972-17

Matrix: Air Lab File ID: 16087_23.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:27

Sample wt/vol: 100(mL) Date Analyzed: 10/06/2015 02:44

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	2.1	U	2.1	0.55
104-51-8	n-Butylbenzene	134.22	2.2	U	2.2	0.52
95-50-1	1,2-Dichlorobenzene	147.00	2.4	U	2.4	0.66
120-82-1	1,2,4-Trichlorobenzene	181.45	7.4	U	7.4	1.0
87-68-3	Hexachlorobutadiene	260.76	4.3	U	4.3	1.7
91-20-3	Naphthalene	128.17	5.2	U	5.2	0.60

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D
Lims ID: 200-29972-A-17 Lab Sample ID: 200-29972-17
Client ID: FR-SS09-092315
Sample Type: Client
Inject. Date: 06-Oct-2015 02:44:30 ALS Bottle#: 4 Worklist Smp#: 23
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Sample Info: 200-0016087-023
Misc. Info.: 29972-17
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 30-Oct-2015 13:32:06 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: desjardinsb Date: 06-Oct-2015 11:47:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.156	3.172	-0.016	99	10596	0.4088	
3 Chlorodifluoromethane	51	3.210	3.226	-0.016	94	2276	0.1816	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50		3.579				ND	
6 Butane	43	3.761	3.771	-0.010	94	5920	0.4942	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.253	5.259	-0.006	98	653027	22.8	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296				ND	
20 1,1-Dichloroethene	96	6.339	6.350	-0.011	30	1471	0.1375	M
21 Acetone	43	6.671	6.612	0.059	88	34779	2.98	
22 Carbon disulfide	76	6.740	6.746	-0.006	98	61255	2.25	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.414	7.414	0.000	73	2077	0.2115	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.206	8.212	-0.006	90	5872	0.4026	
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	14848	0.8005	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72	9.956	9.881	0.075	97	2441	0.3944	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.276	10.282	-0.006	73	133243	10.0	
39 Tetrahydrofuran	42	10.405	10.298	0.107	61	2250	0.2170	
41 Chloroform	83	10.405	10.410	-0.005	75	1683	0.0680	M
42 Cyclohexane	84		10.651				ND	M
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	97	673864	25.4	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117		10.929				ND	
	45 Isooctane	57	11.373	11.368	0.005	85	5413	0.0889	
	46 Benzene	78	11.411	11.411	0.000	62	7081	0.1666	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43	11.748	11.753	-0.005	77	3719	0.1814	
*	50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	92	727848	10.0	
	52 Trichloroethene	95	12.737	12.743	-0.006	93	108948	5.09	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83		13.904				ND	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43	15.246	15.193	0.053	63	5257	0.1892	
	62 Toluene	92	15.471	15.476	-0.005	93	15354	0.4111	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.573	16.579	-0.006	92	6866	0.1846	
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.440	18.446	-0.006	81	733504	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91	18.659	18.649	0.010	92	4402	0.0547	
	77 m-Xylene & p-Xylene	106	18.895	18.906	-0.011	98	10191	0.3001	
	78 o-Xylene	106	19.719	19.719	0.000	96	2723	0.0811	
	79 Styrene	104		19.767				ND	
S	80 Xylenes, Total	106				0		0.3813	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105	20.355	20.355	0.000	91	4704	0.0491	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91		21.035				ND	
	89 4-Ethyltoluene	105		21.217				ND	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105	21.313	21.318	-0.005	88	1428	0.0179	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105	21.880	21.880	0.000	92	2796	0.0349	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119	22.292	22.297	-0.005	96	2147	0.0210	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91		22.886				ND	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128		26.197				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

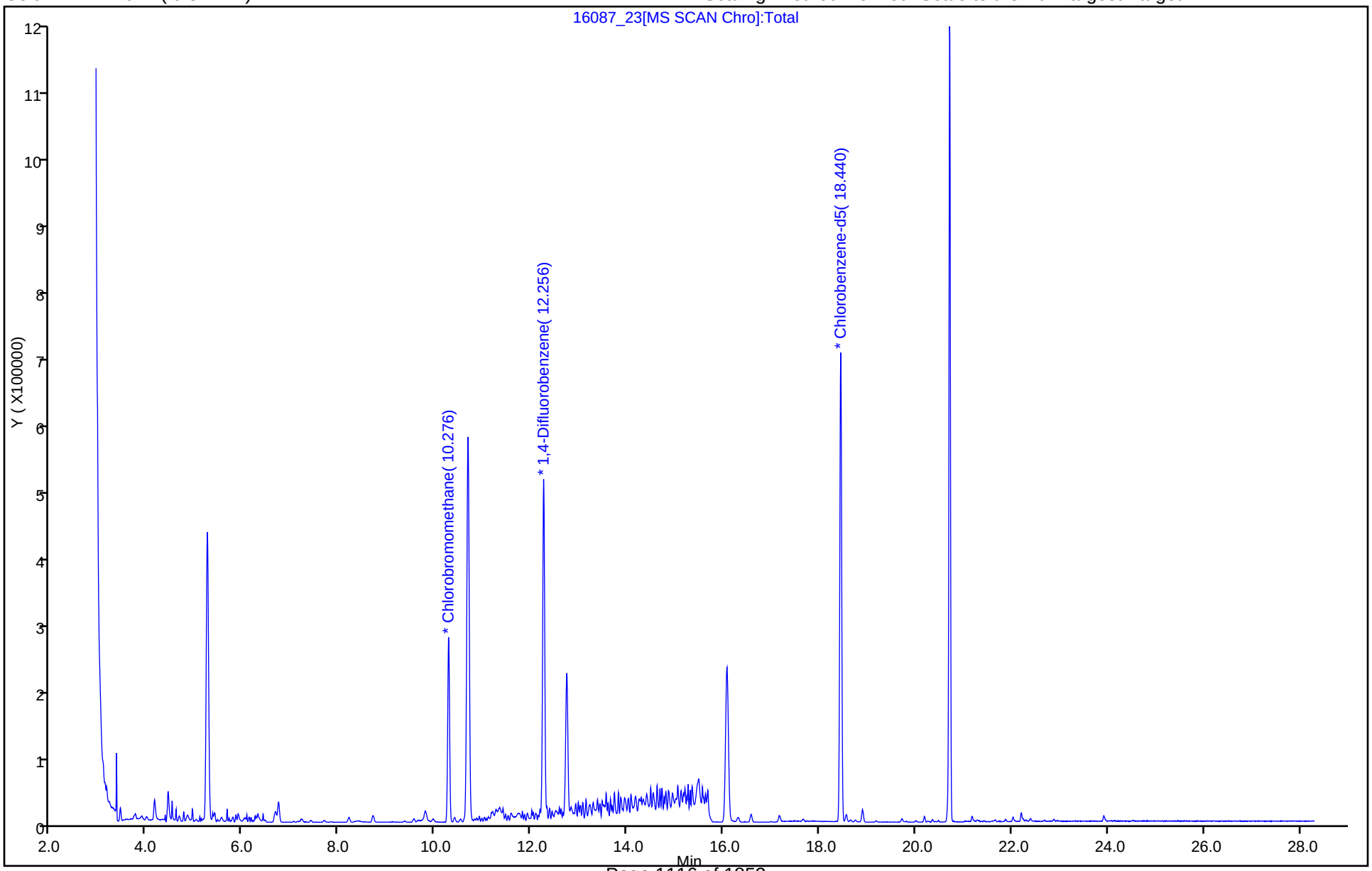
Report Date: 30-Oct-2015 13:32:09 Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17	Worklist Smp#:	23
Client ID:	FR-SS09-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



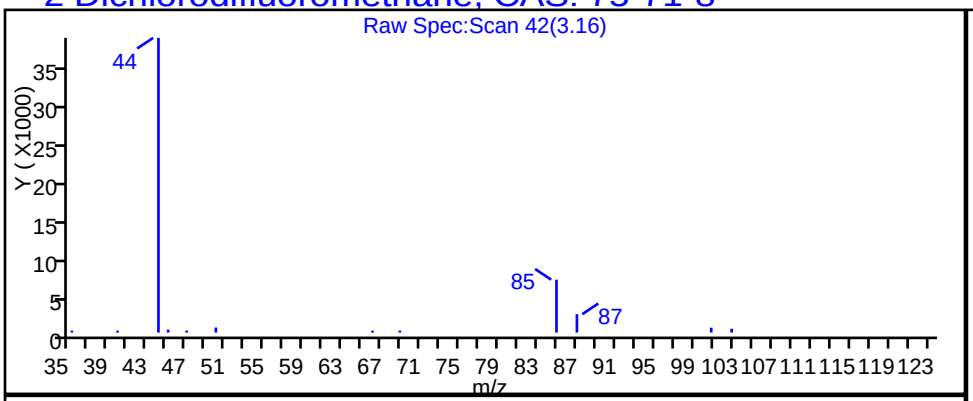
Report Date: 30-Oct-2015 13:32:09 Chrom Revision: 2.2 08-Oct-2015 07:17:48

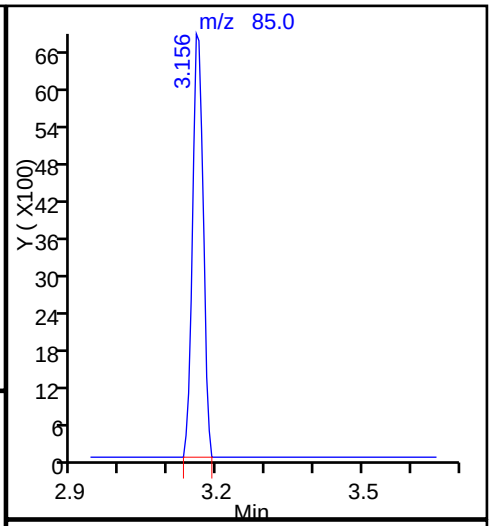
TestAmerica Burlington

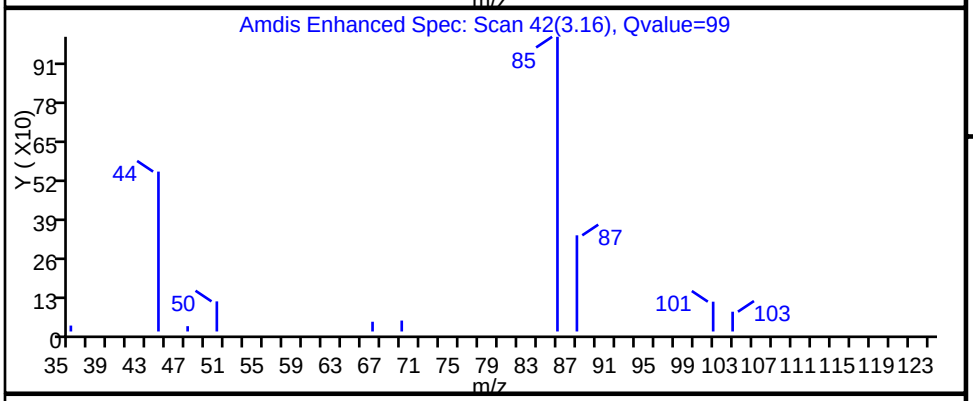
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

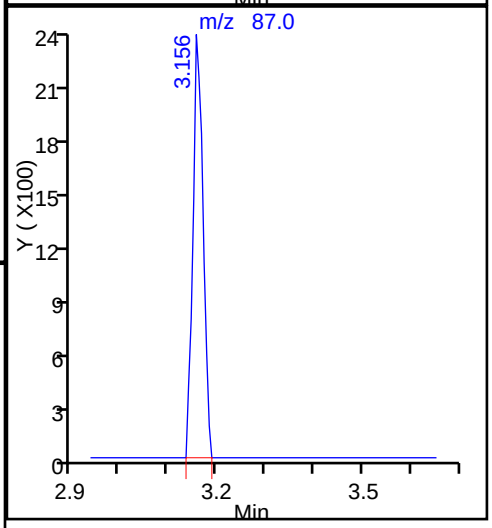
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

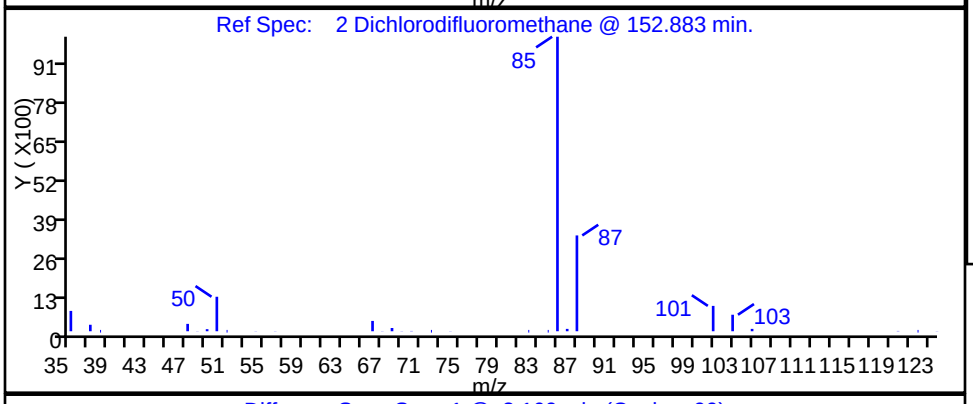
2 Dichlorodifluoromethane, CAS: 75-71-8

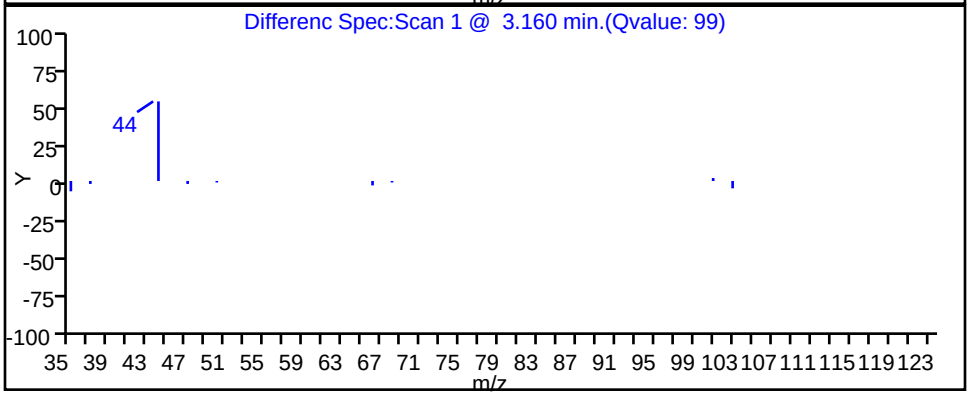












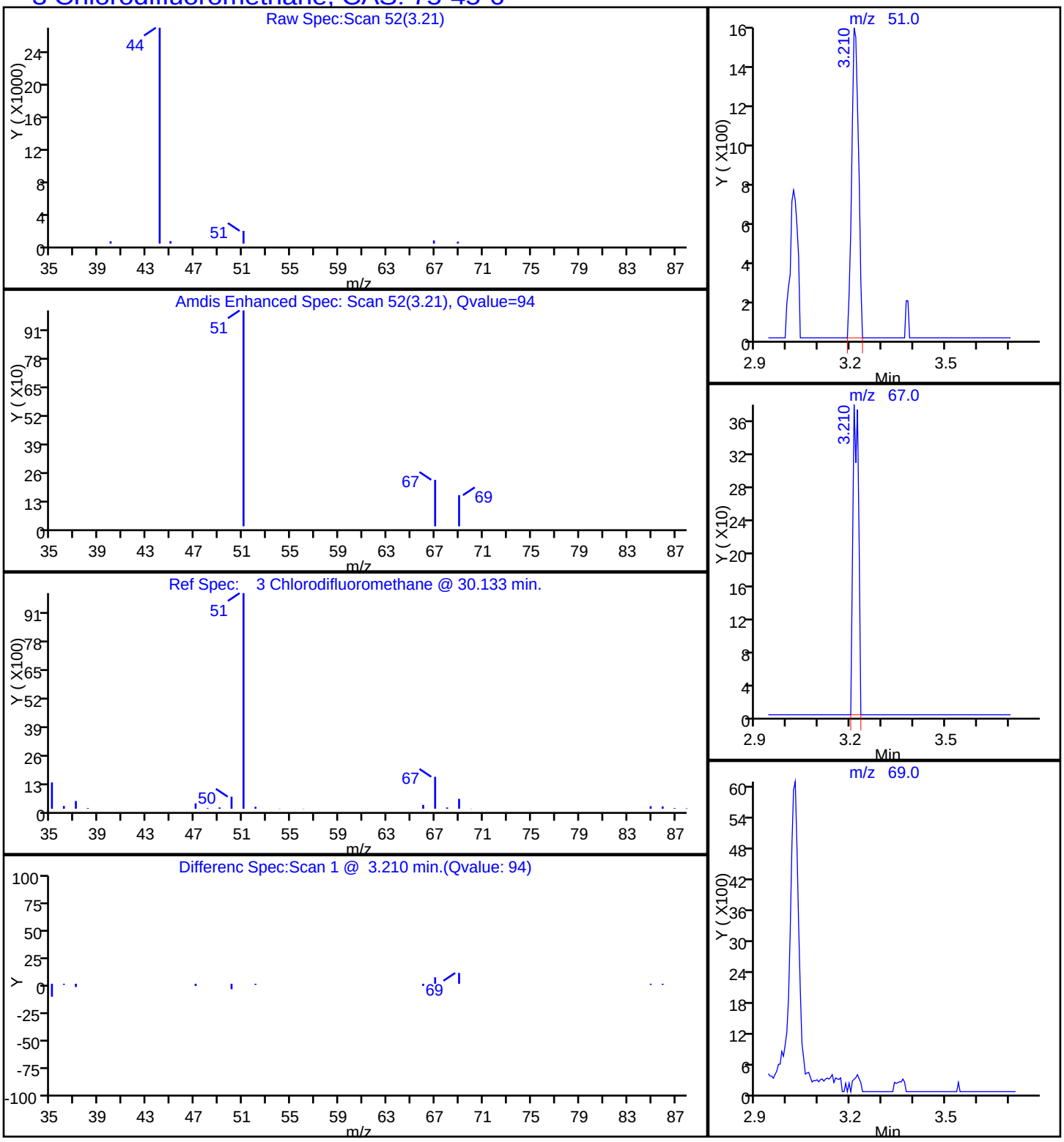
Report Date: 30-Oct-2015 13:32:09 Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6



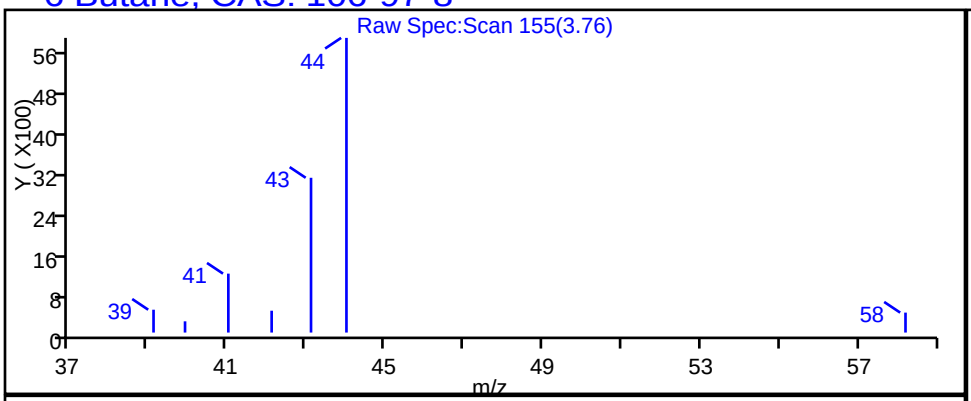
Report Date: 30-Oct-2015 13:32:09 Chrom Revision: 2.2 08-Oct-2015 07:17:48

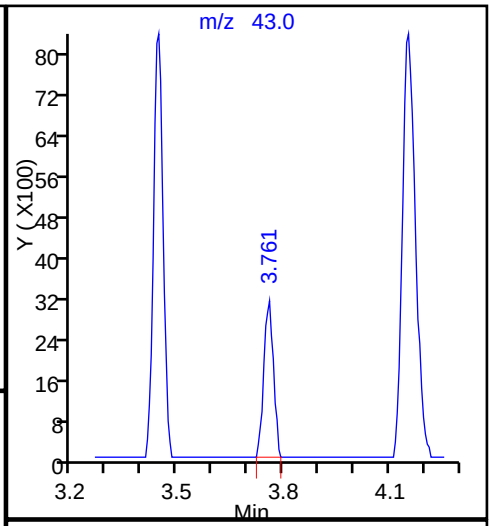
TestAmerica Burlington

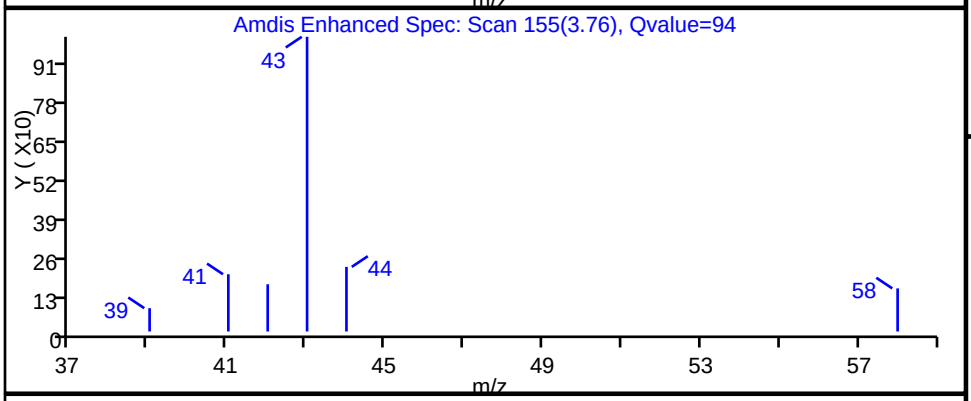
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

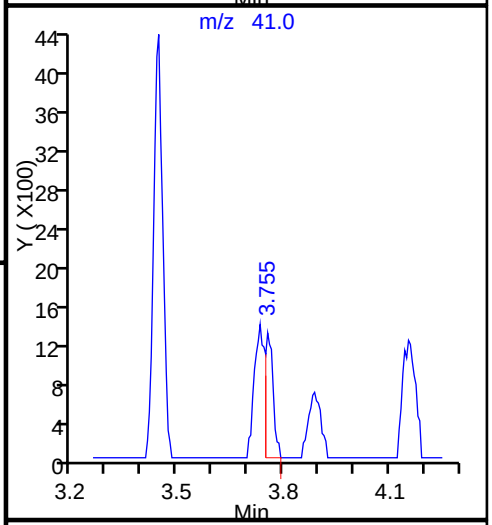
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

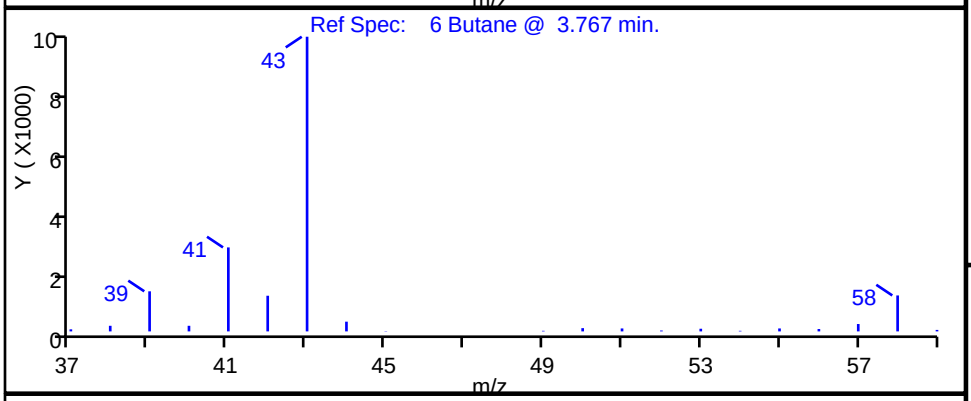
6 Butane, CAS: 106-97-8

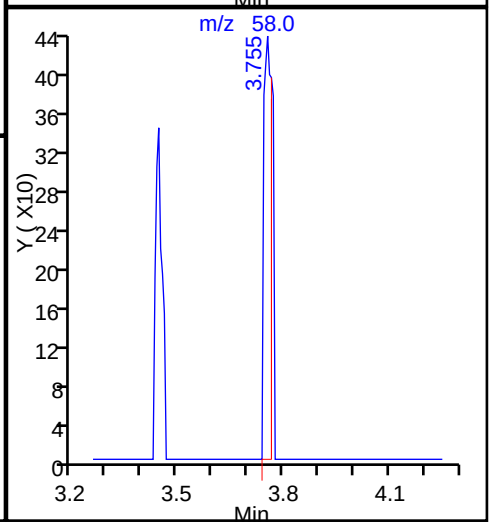


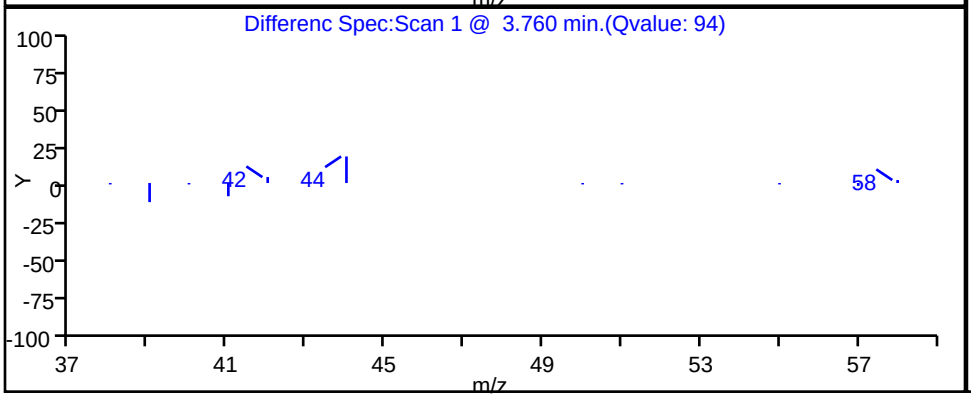












Report Date: 30-Oct-2015 13:32:09 Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
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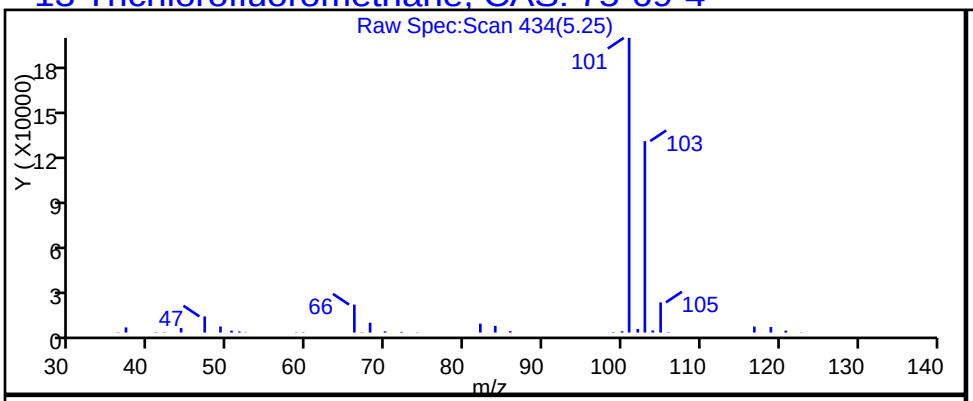
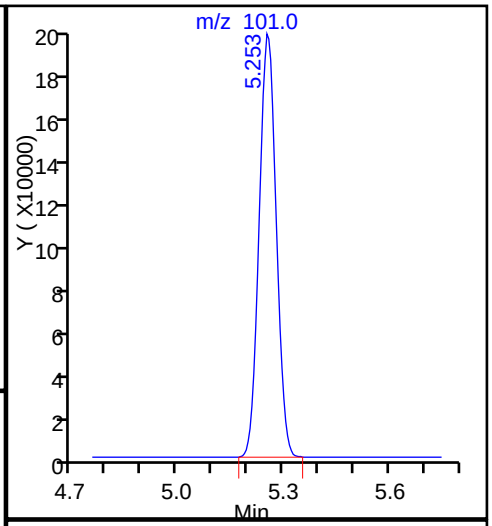
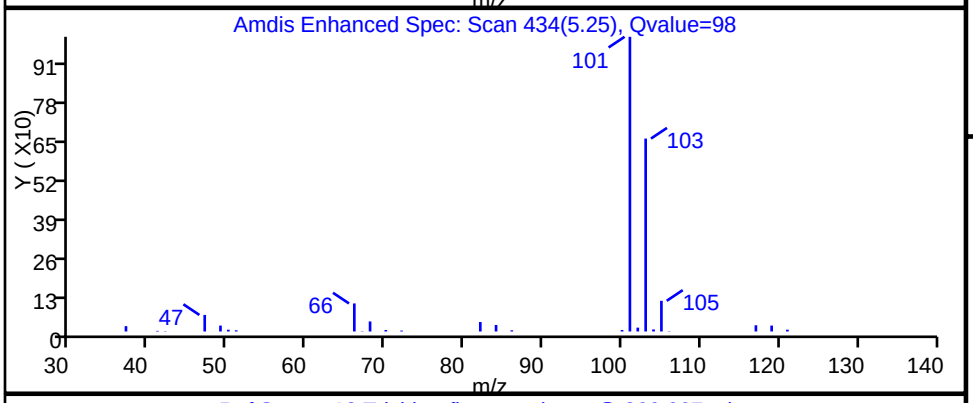
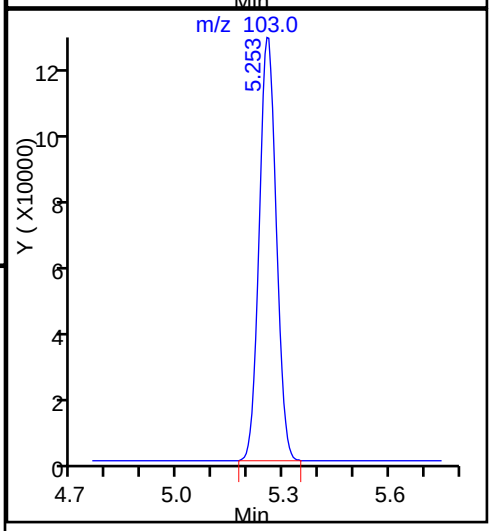
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

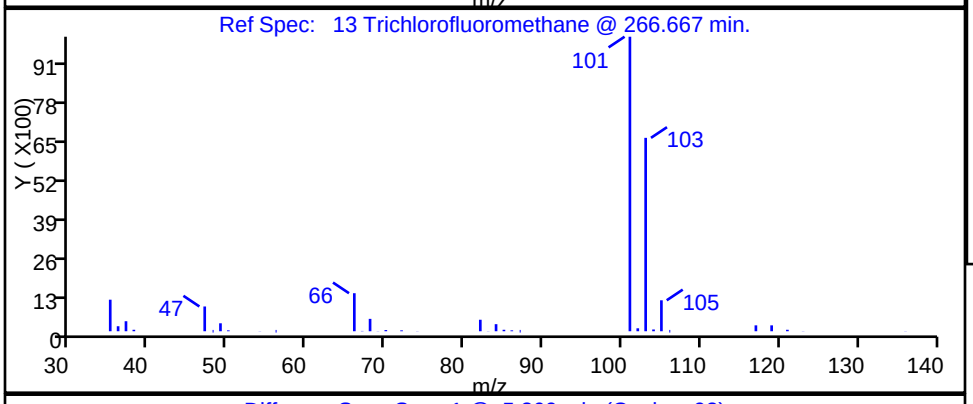
13 Trichlorofluoromethane, CAS: 75-69-4

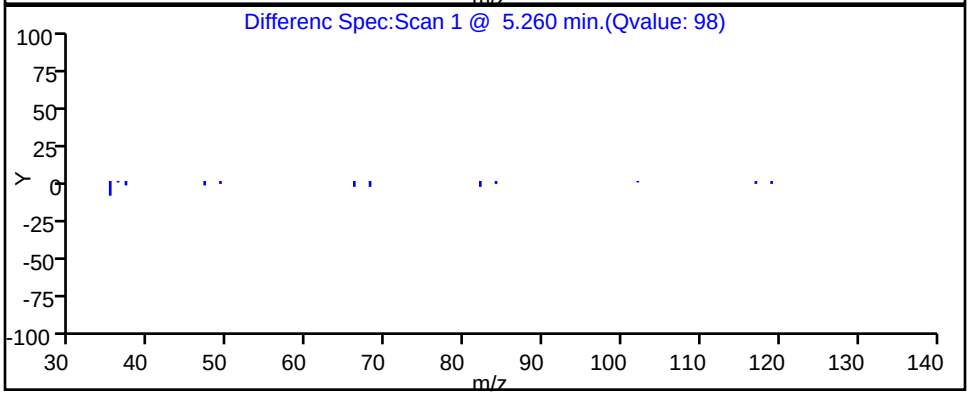












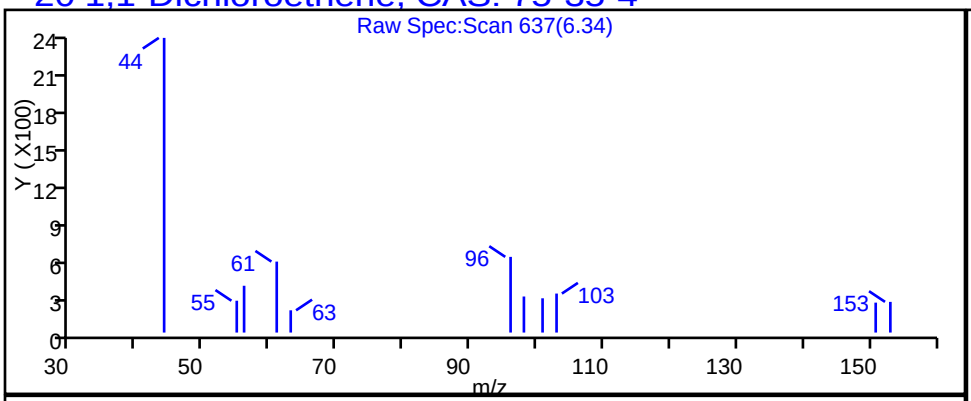
Report Date: 30-Oct-2015 13:32:09 Chrom Revision: 2.2 08-Oct-2015 07:17:48

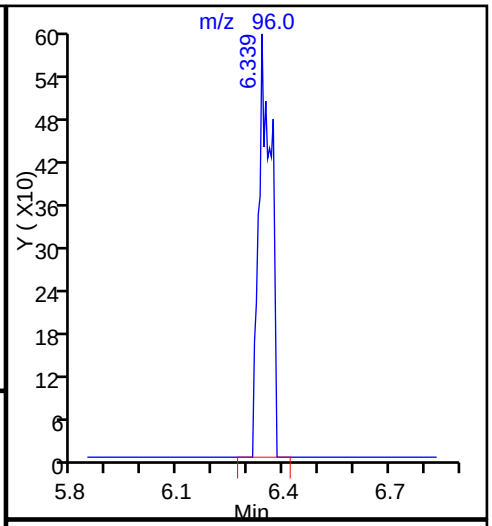
TestAmerica Burlington

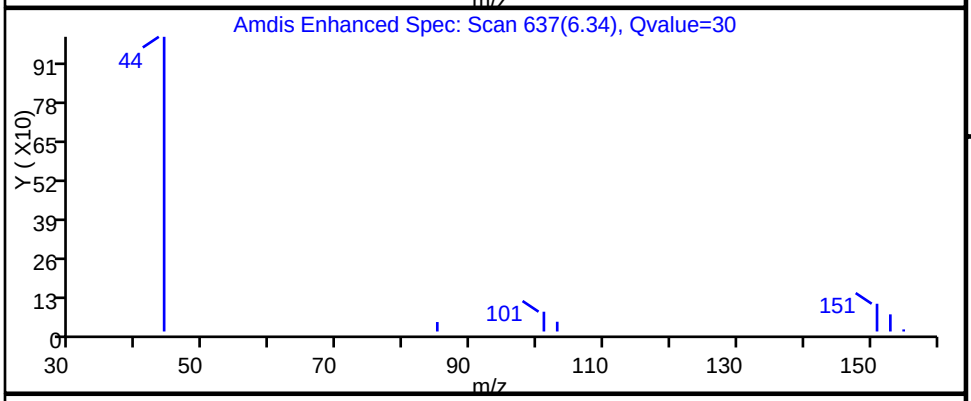
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

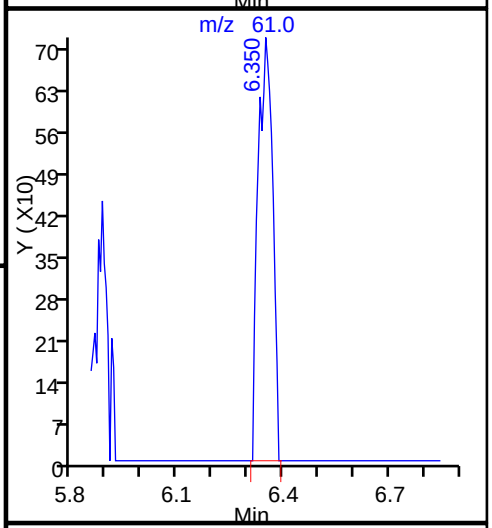
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

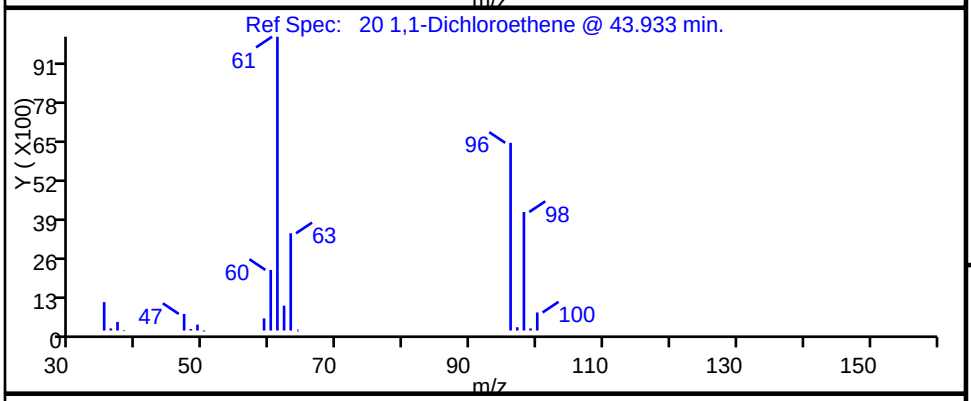
20 1,1-Dichloroethene, CAS: 75-35-4

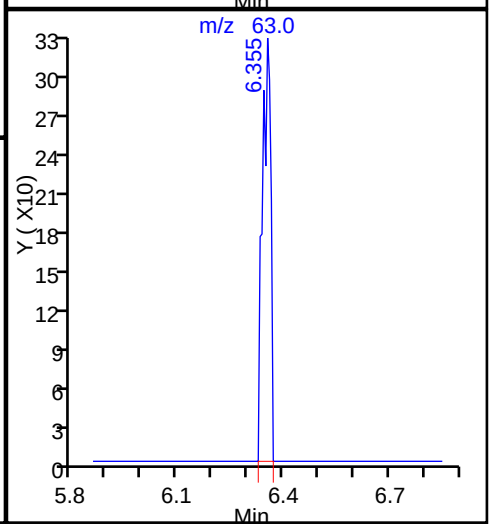


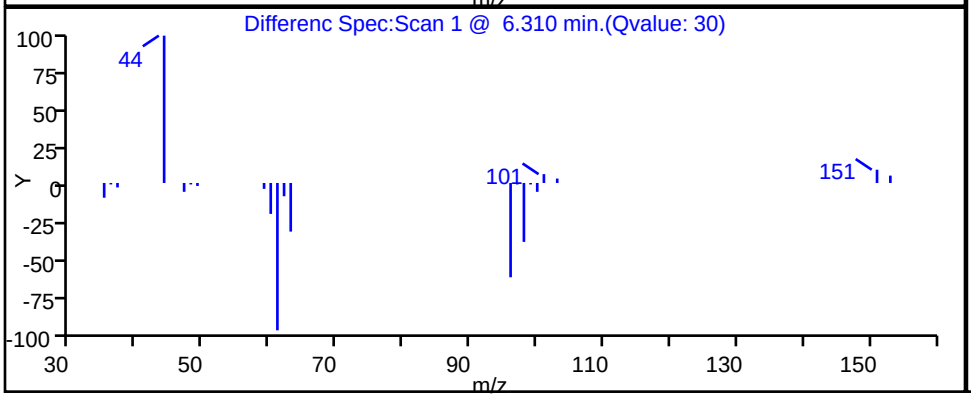












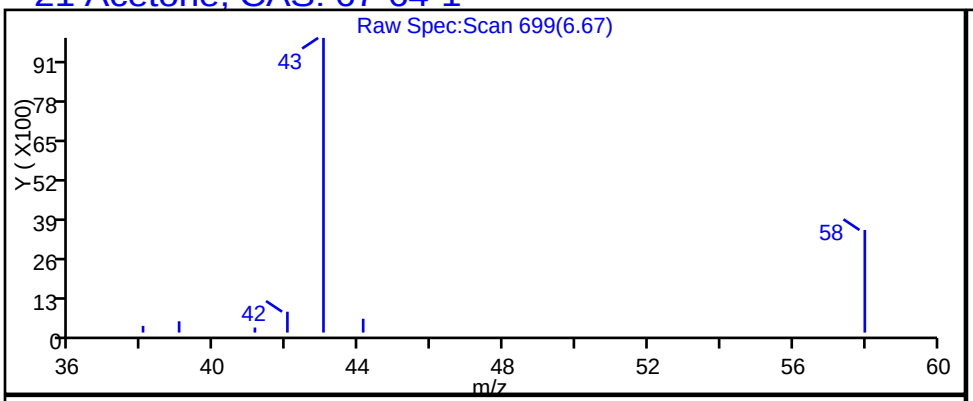
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

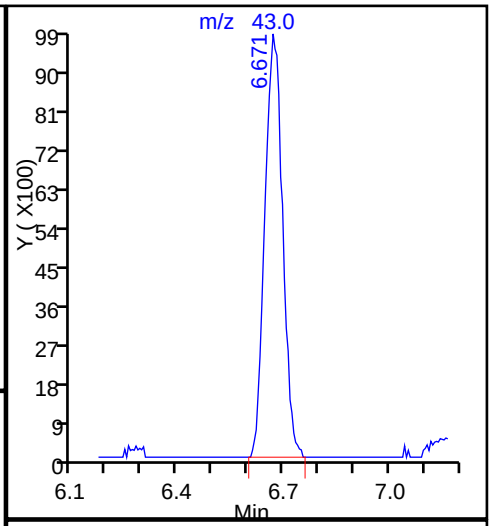
TestAmerica Burlington

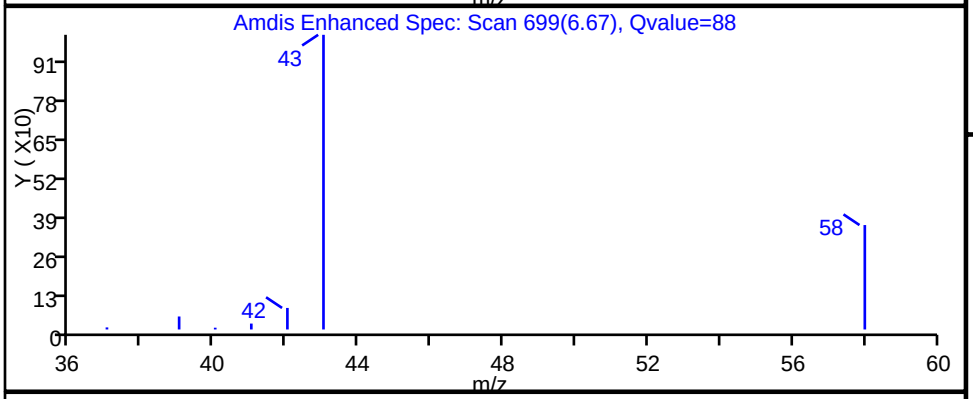
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

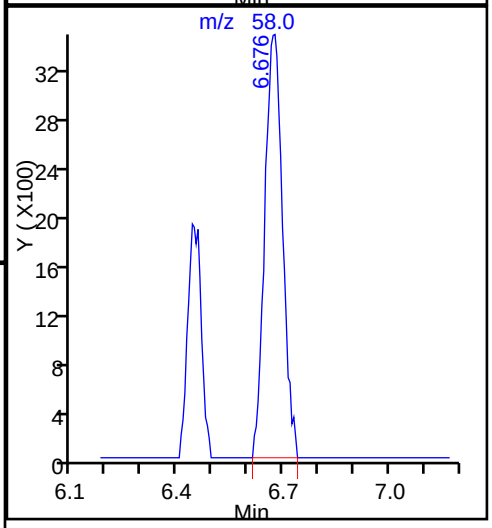
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

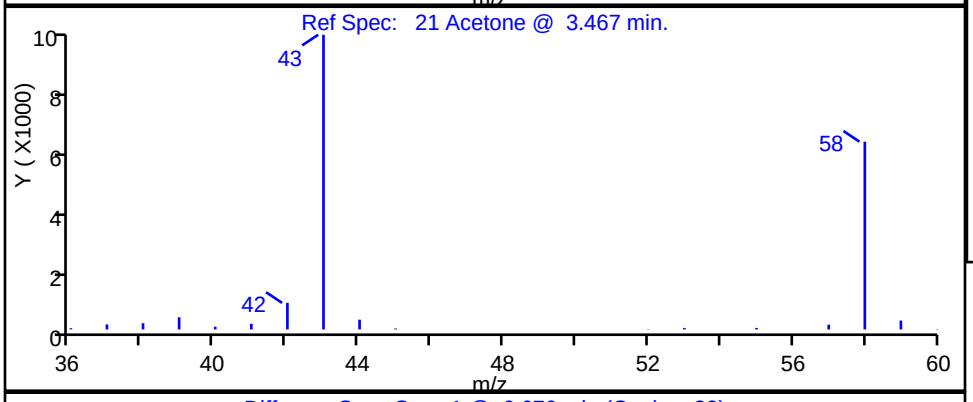
21 Acetone, CAS: 67-64-1

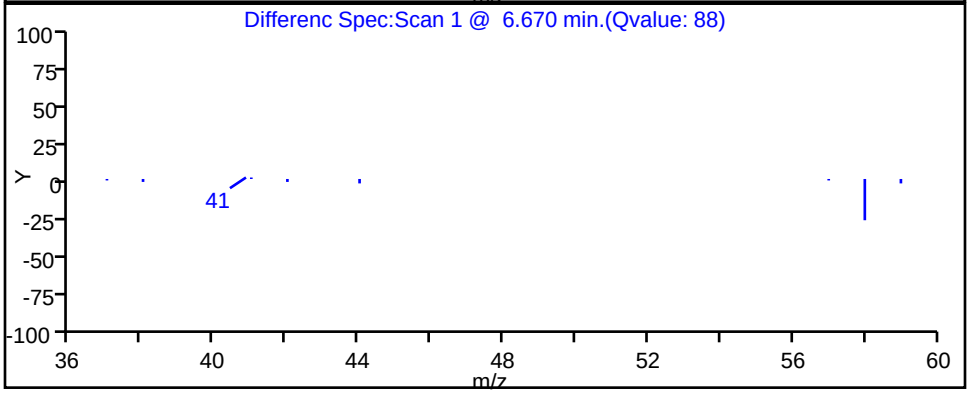












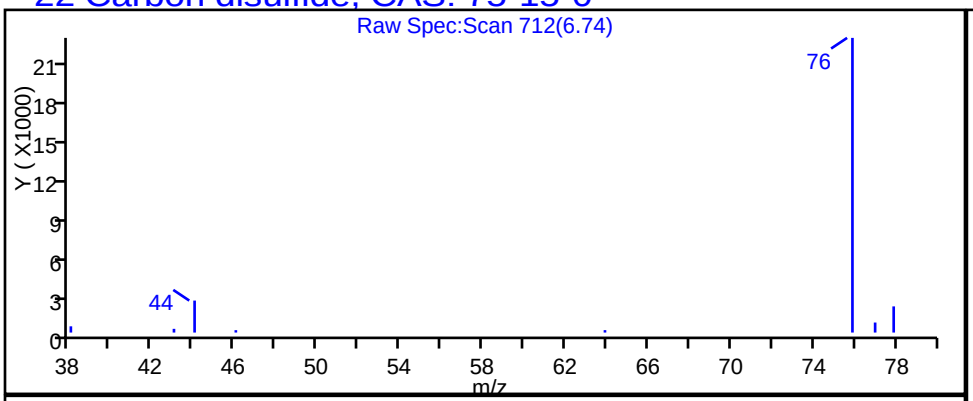
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

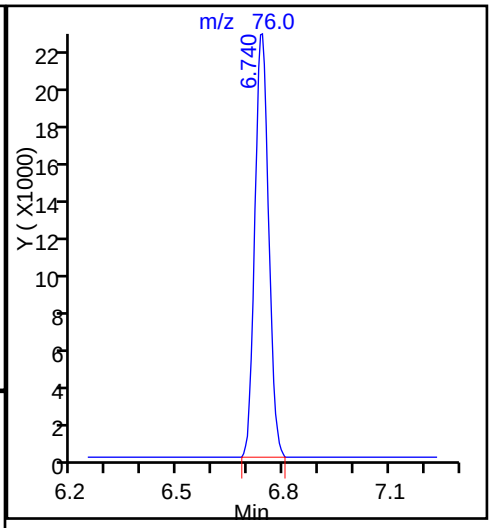
TestAmerica Burlington

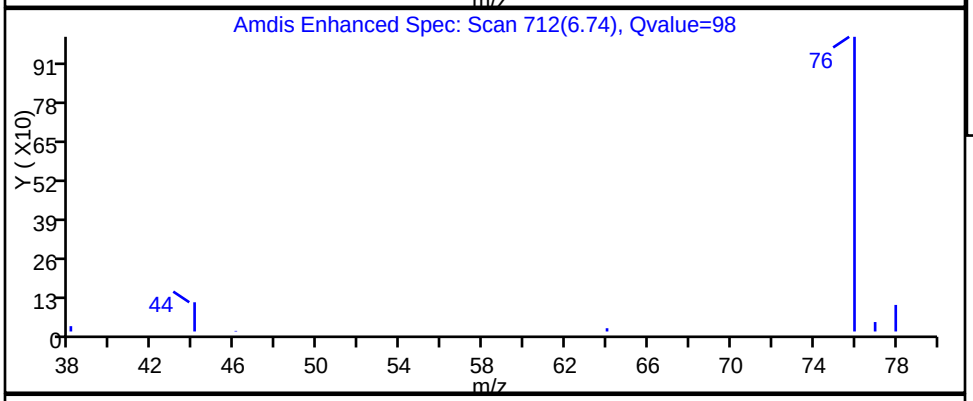
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

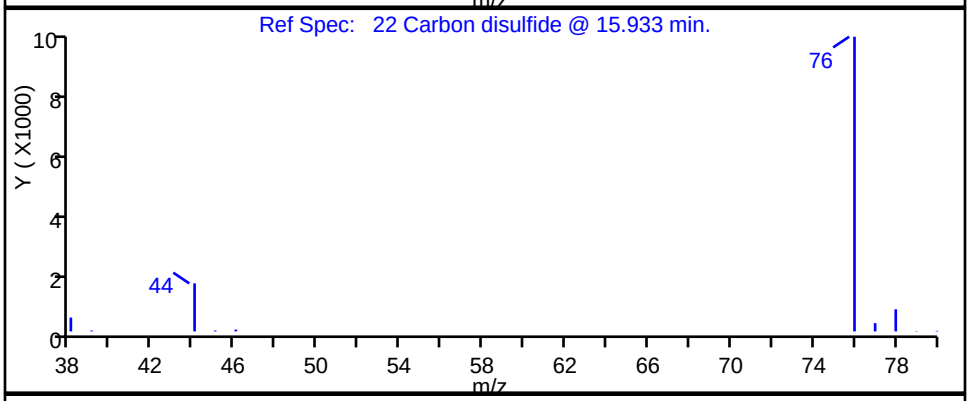
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

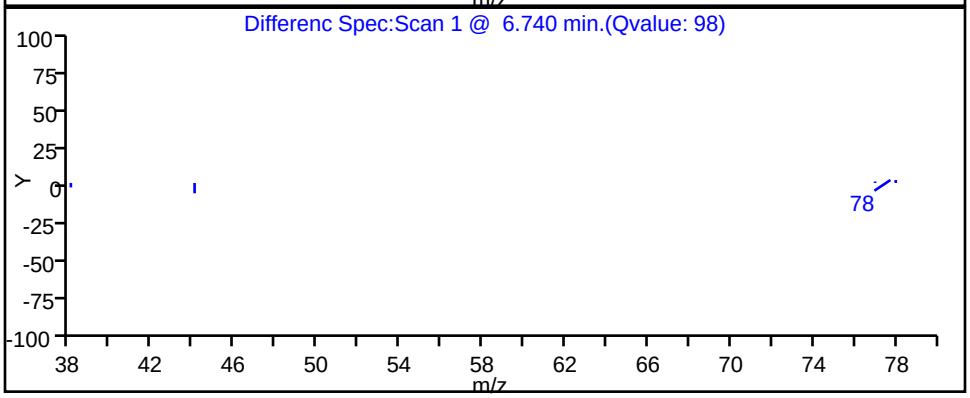
22 Carbon disulfide, CAS: 75-15-0











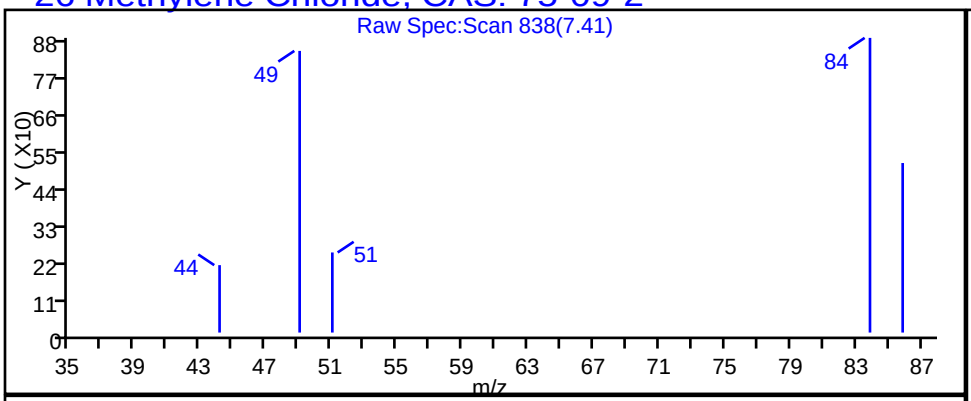
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

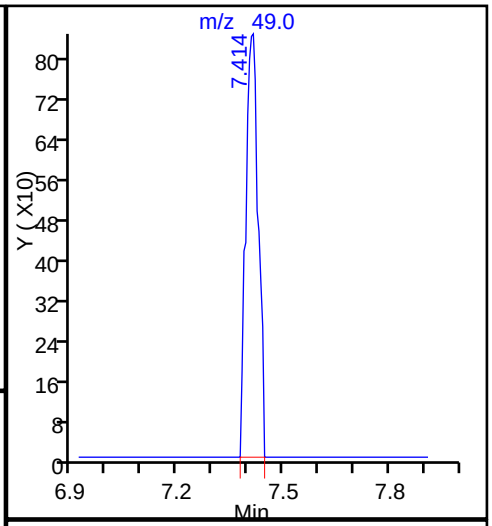
TestAmerica Burlington

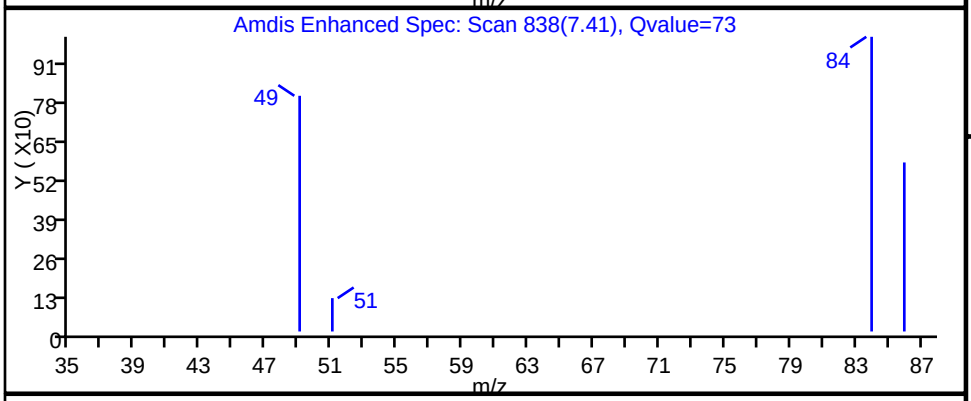
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

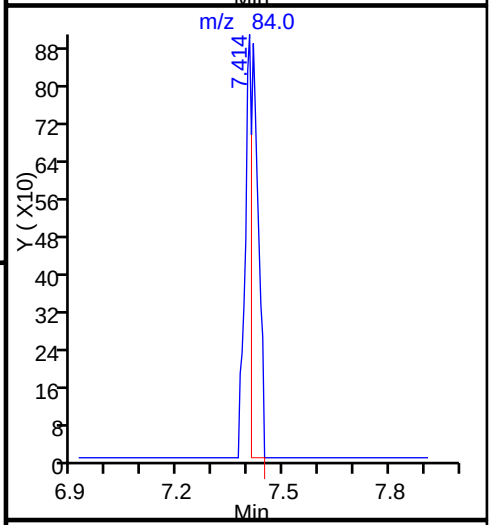
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

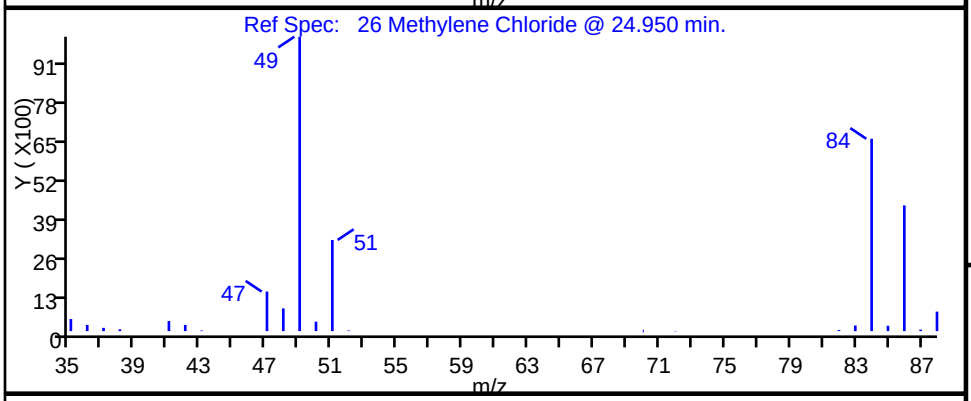
26 Methylene Chloride, CAS: 75-09-2

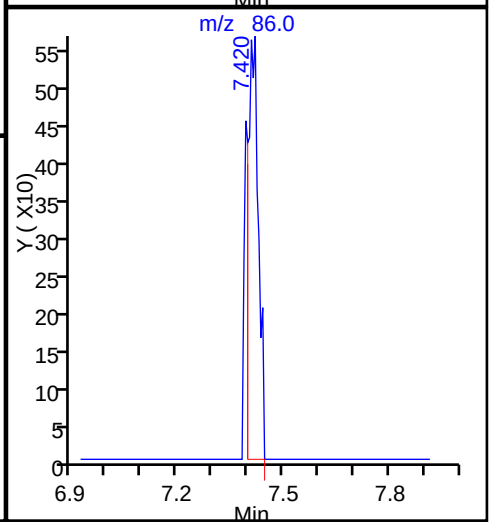


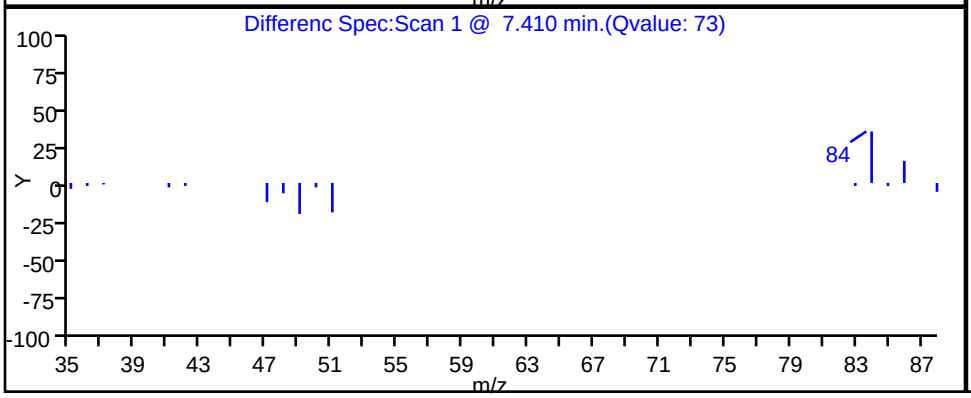










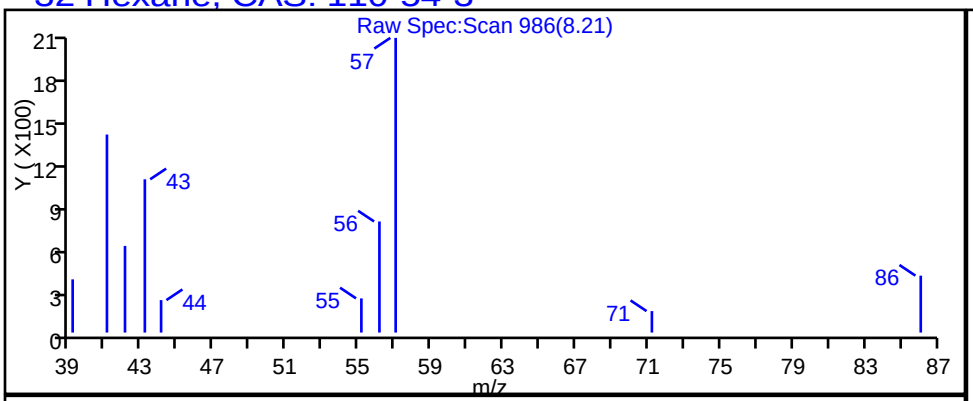


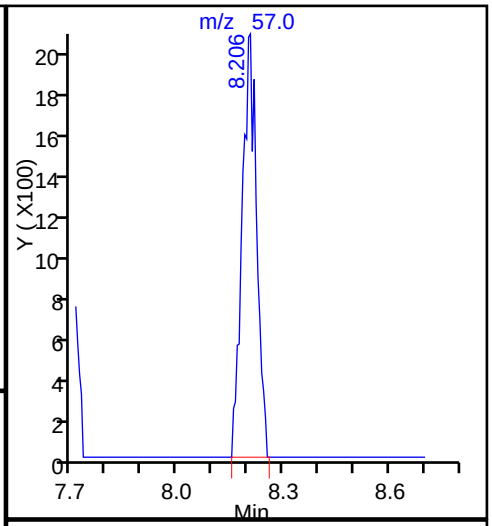
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

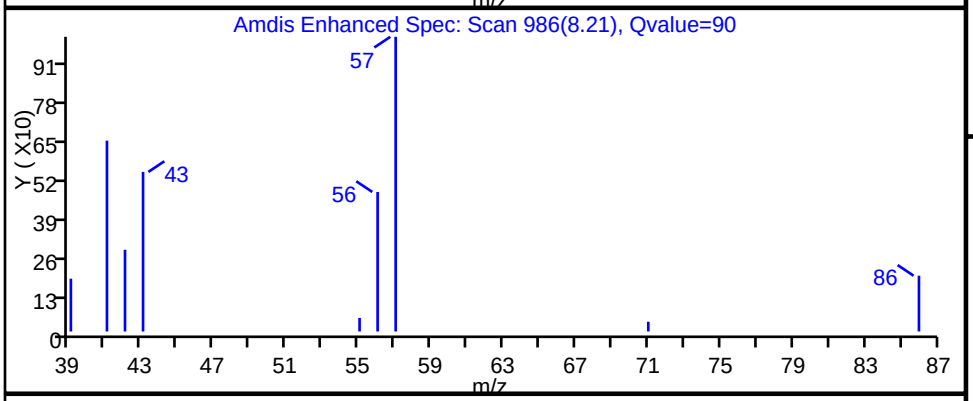
TestAmerica Burlington

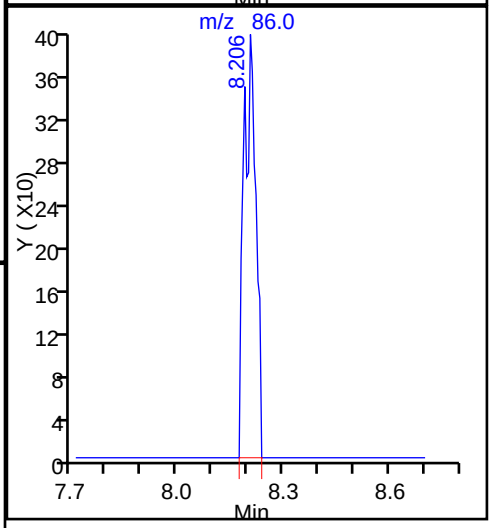
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

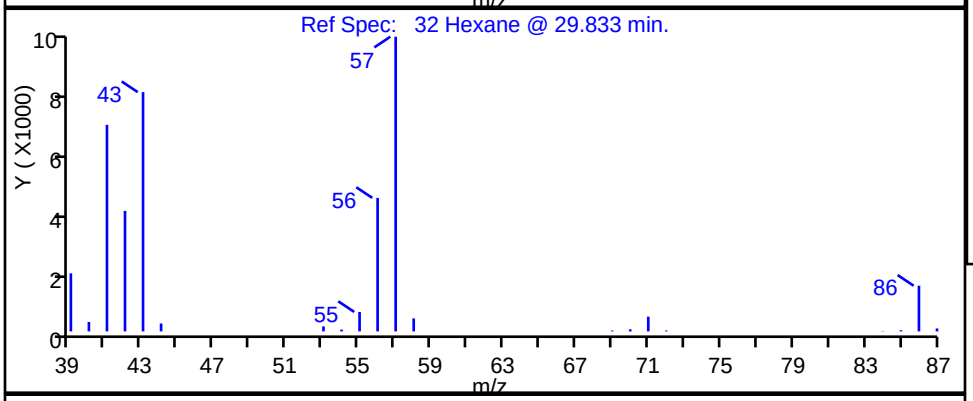
32 Hexane, CAS: 110-54-3

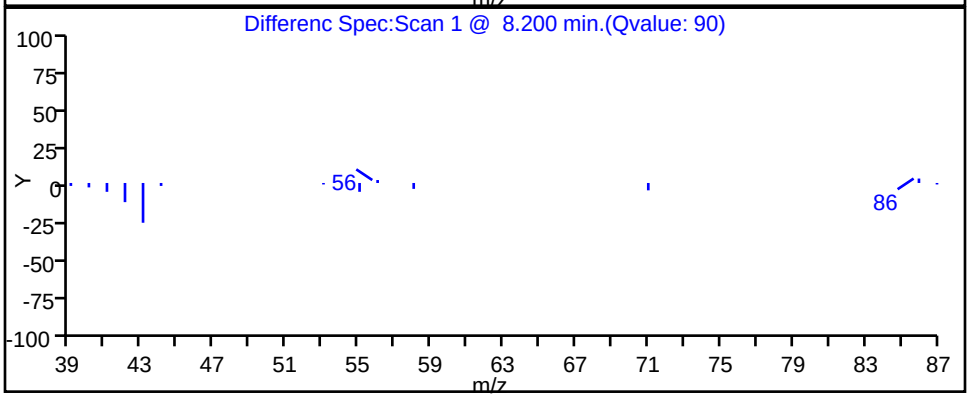












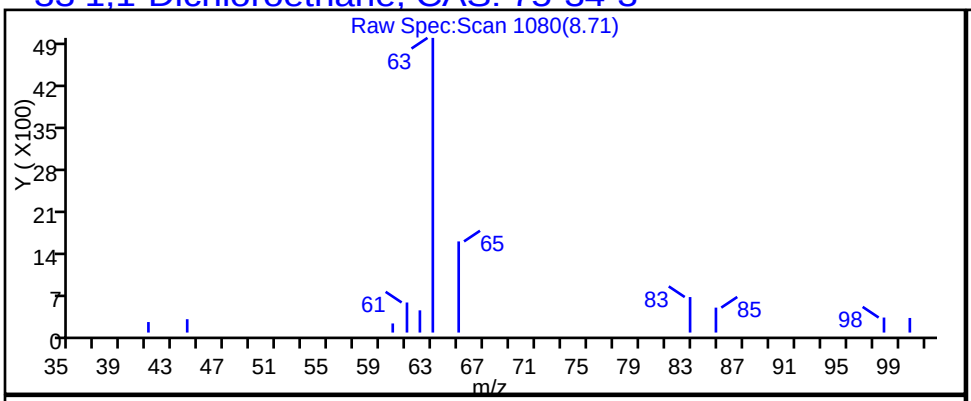
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

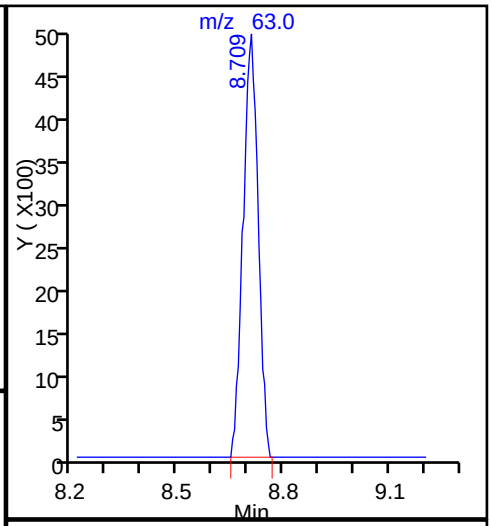
TestAmerica Burlington

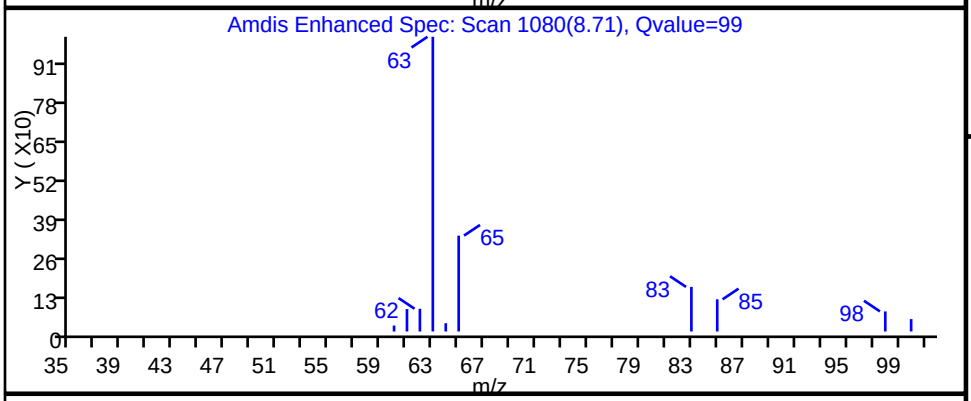
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

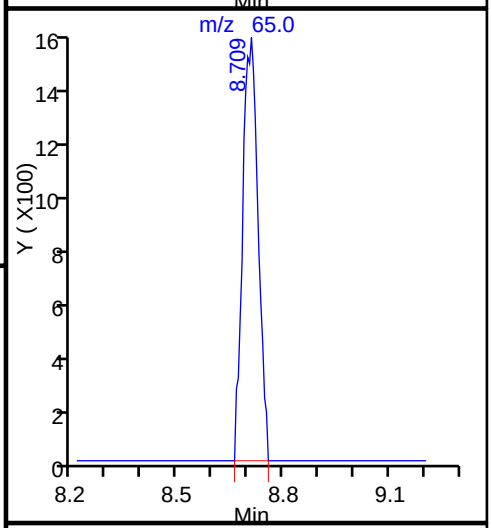
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

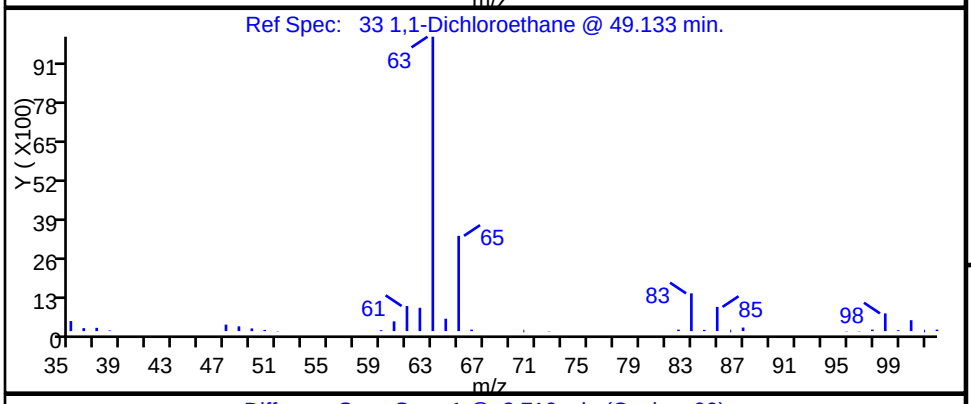
33 1,1-Dichloroethane, CAS: 75-34-3

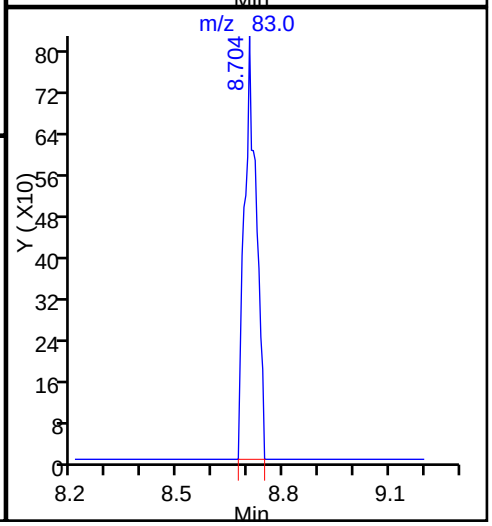


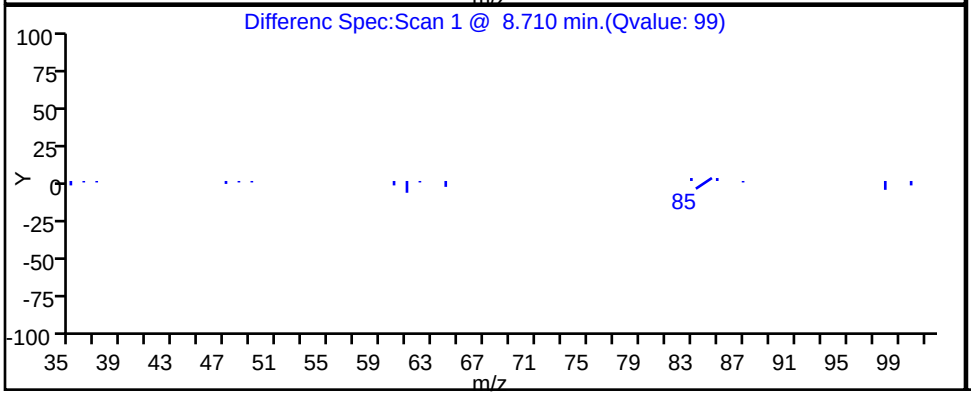












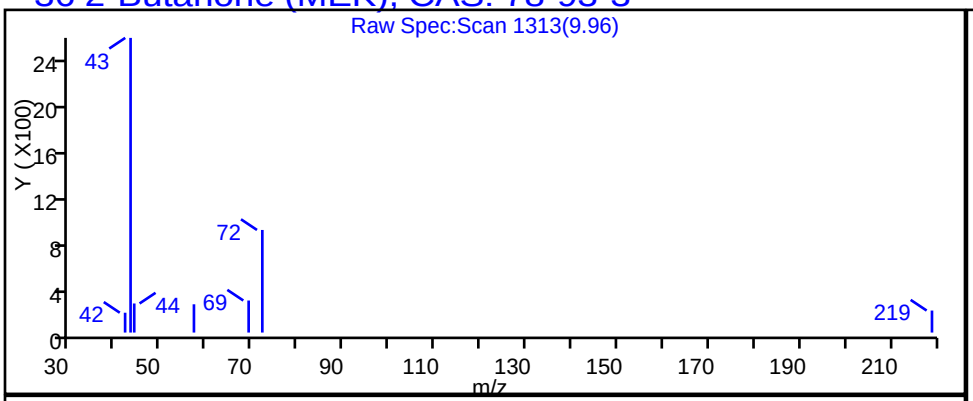
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

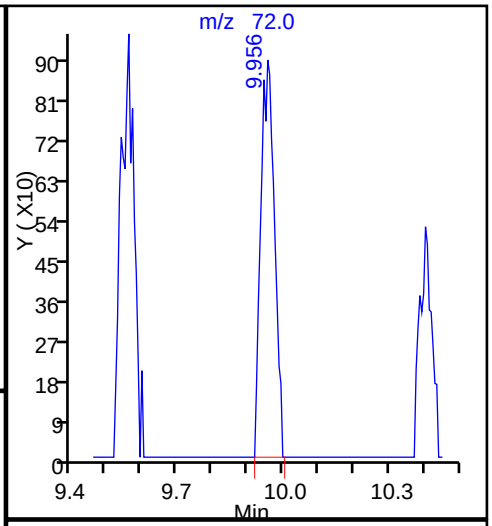
TestAmerica Burlington

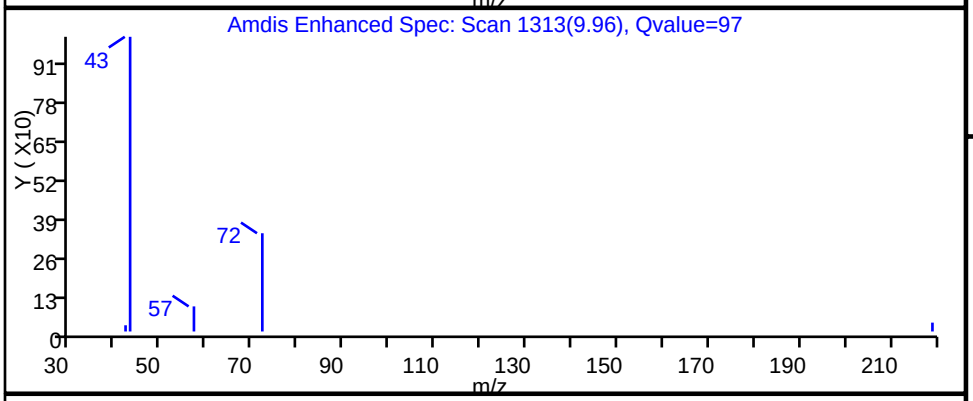
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

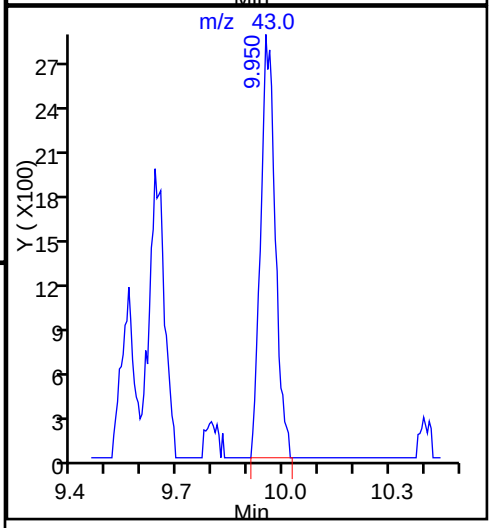
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

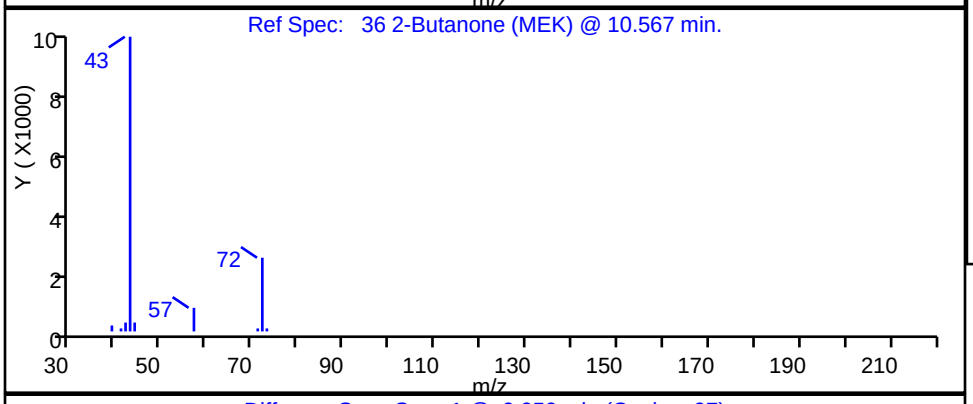
36 2-Butanone (MEK), CAS: 78-93-3

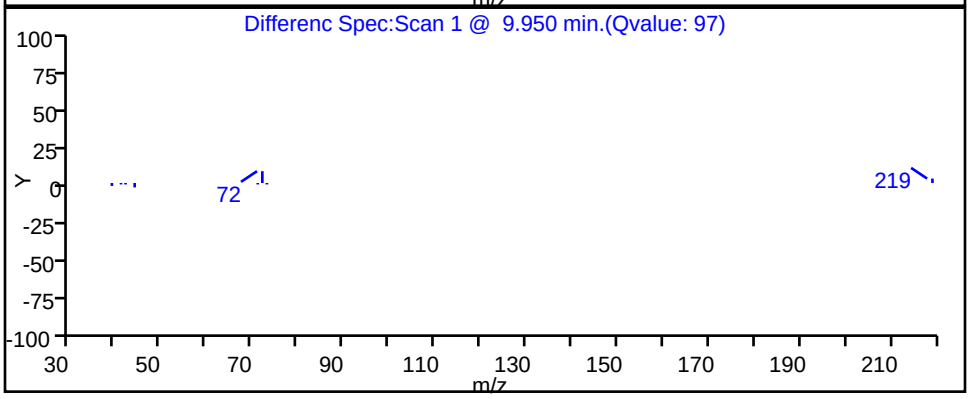










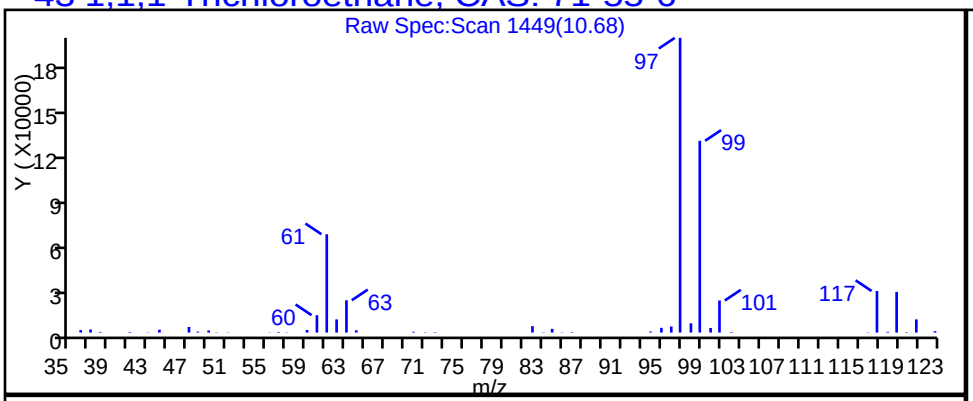


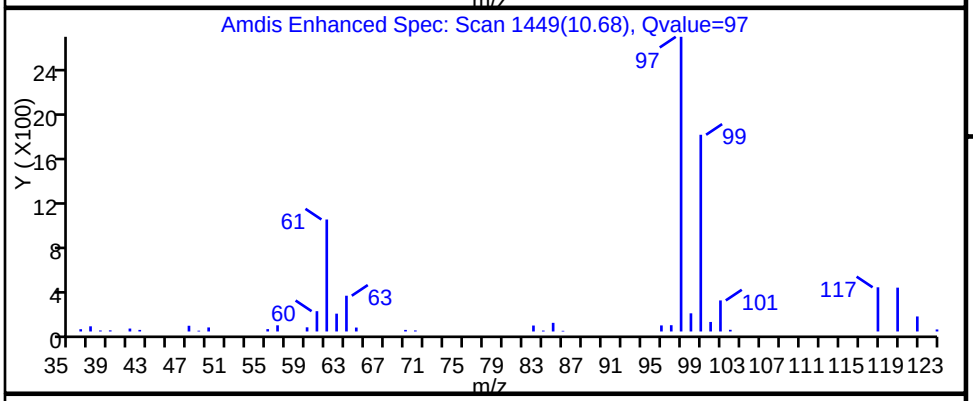
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

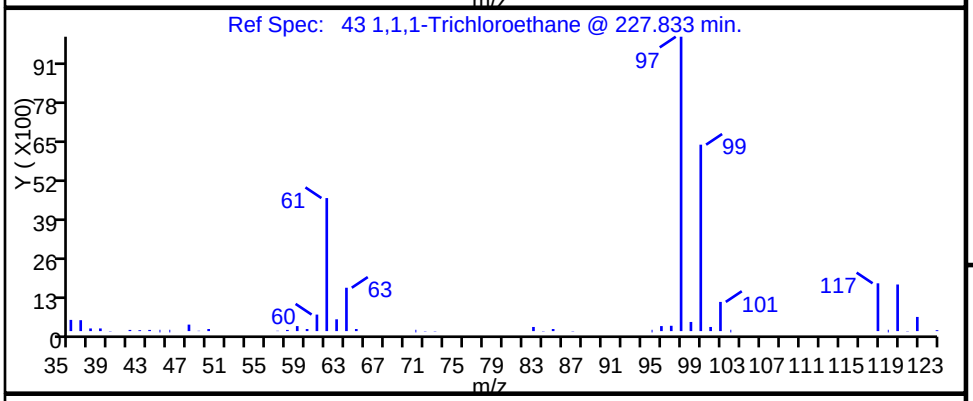
TestAmerica Burlington

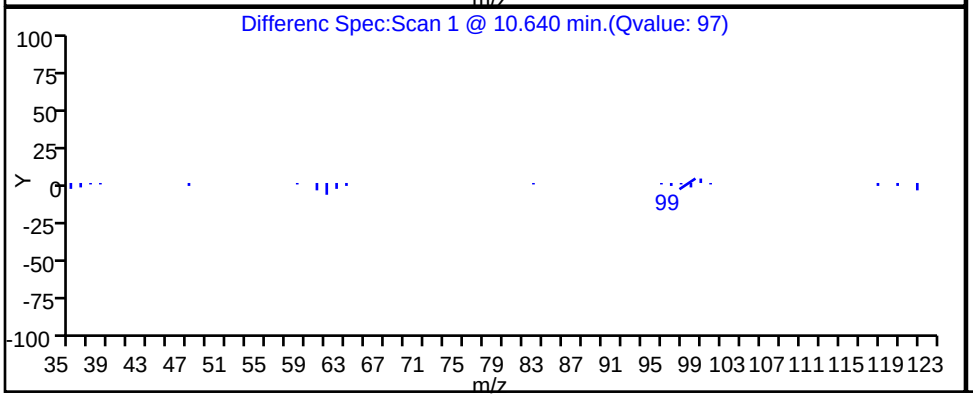
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

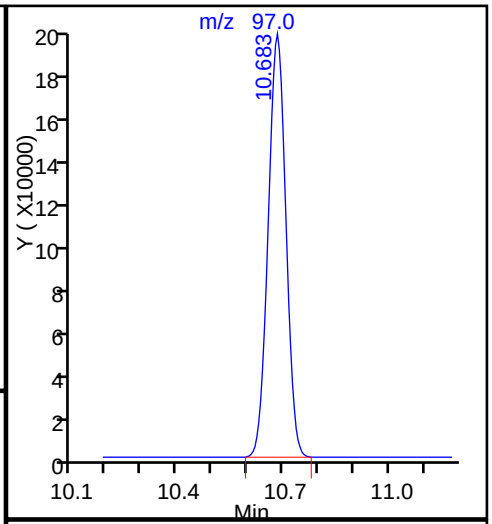
43 1,1,1-Trichloroethane, CAS: 71-55-6

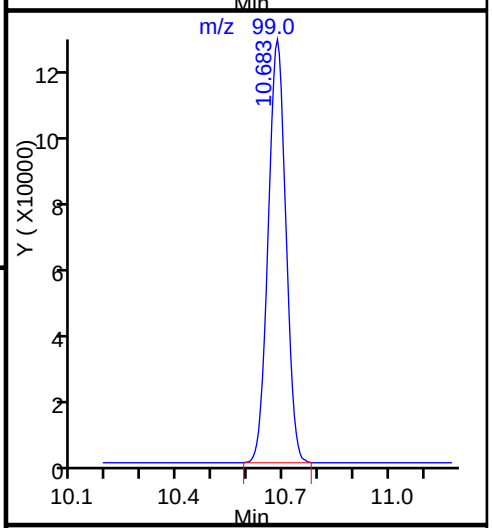


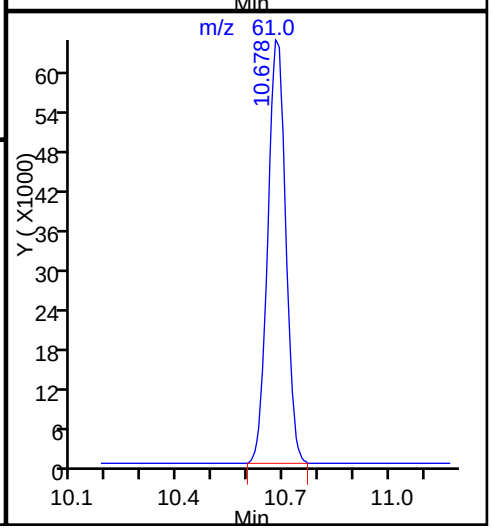












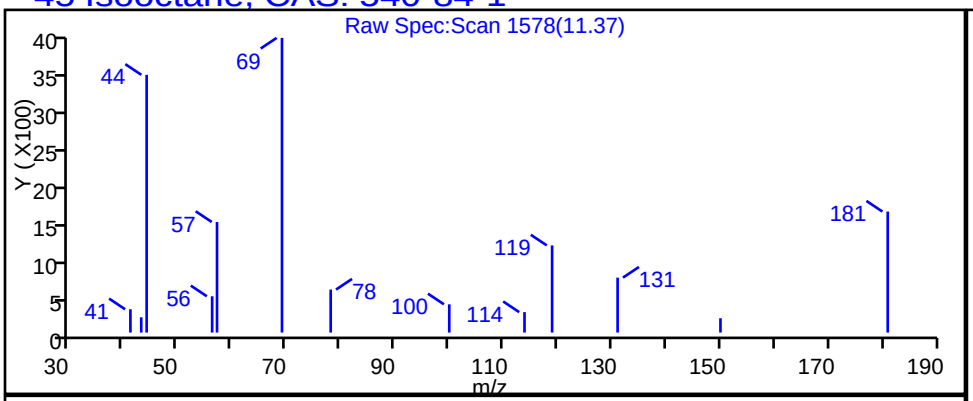
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

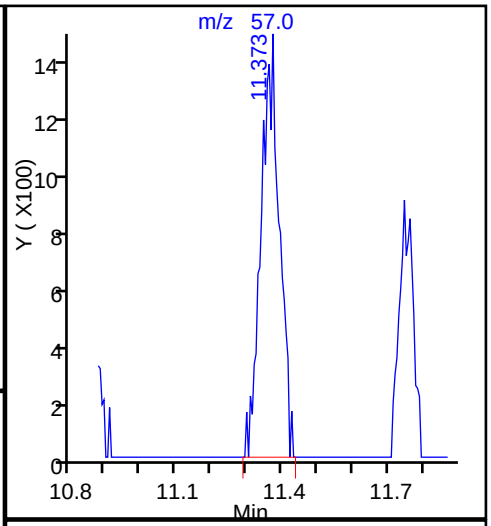
TestAmerica Burlington

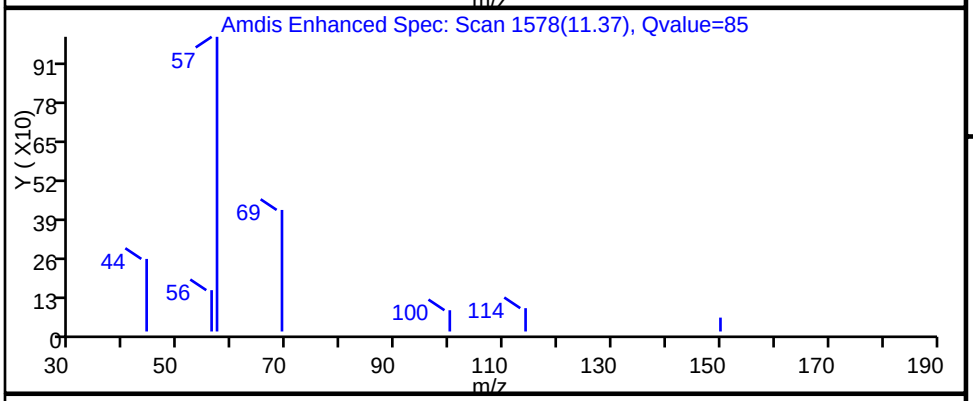
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

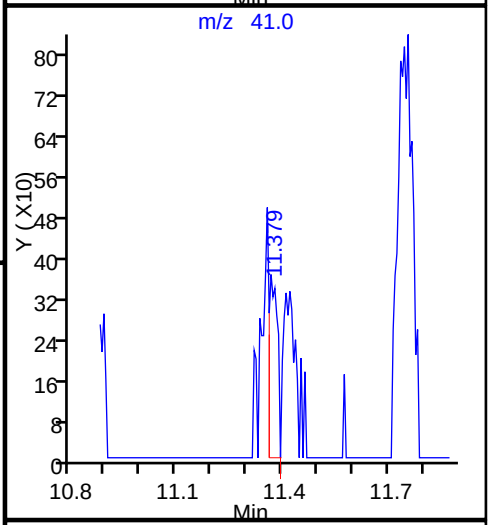
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

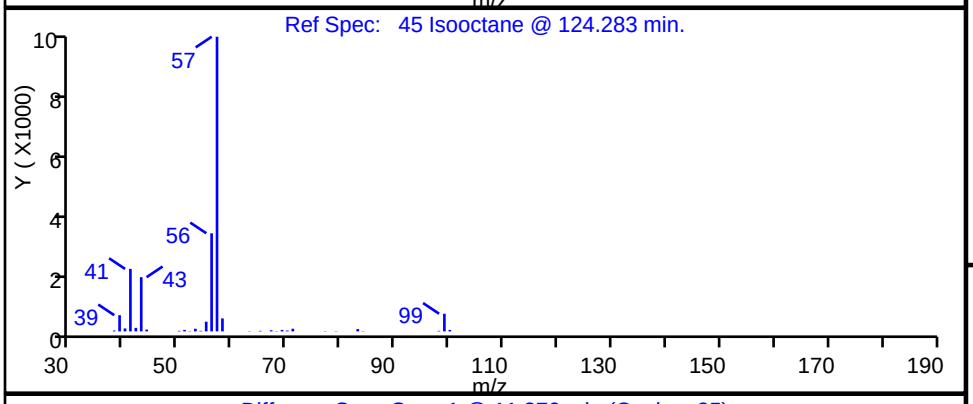
45 Isooctane, CAS: 540-84-1

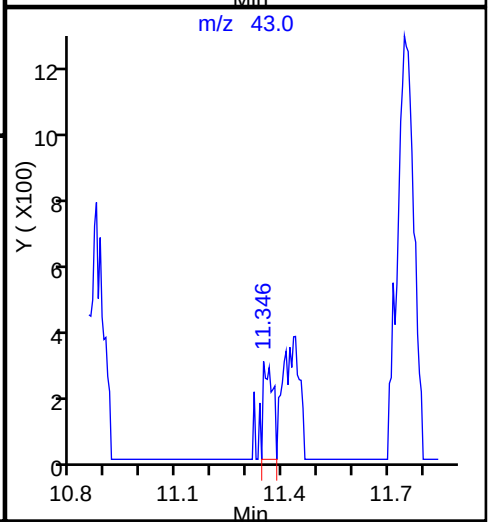


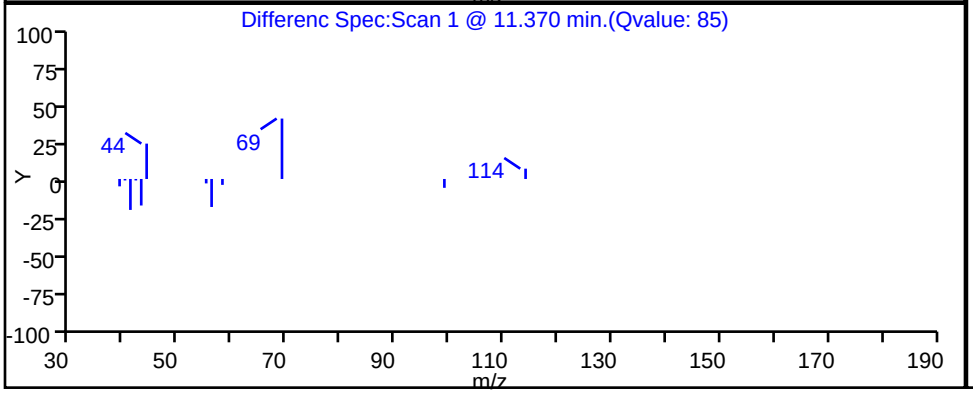










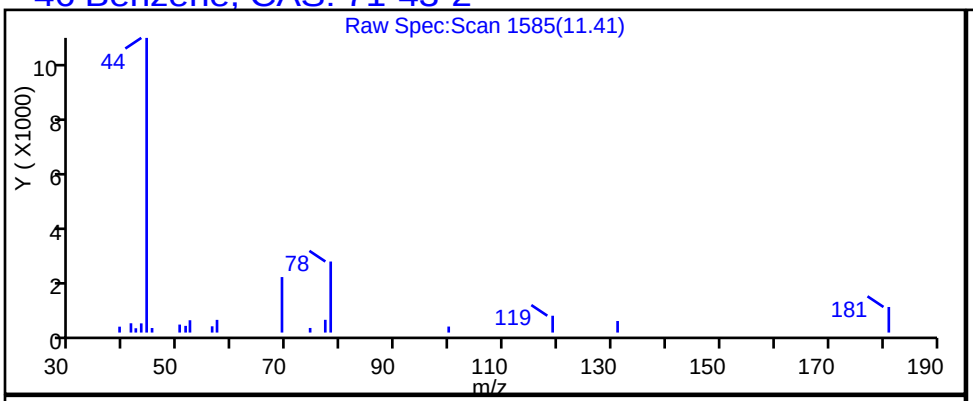


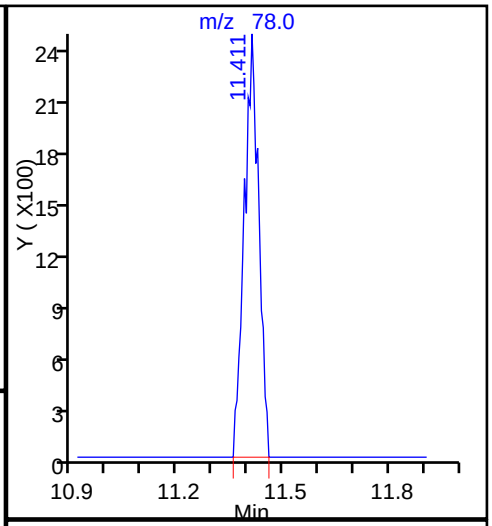
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

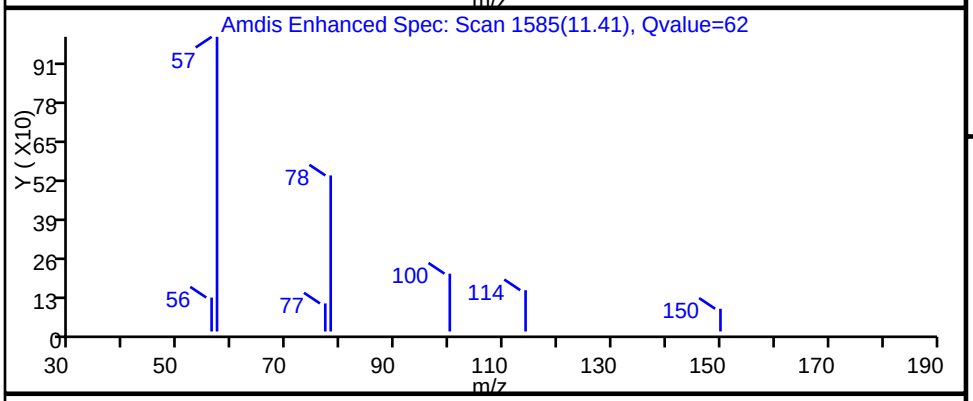
TestAmerica Burlington

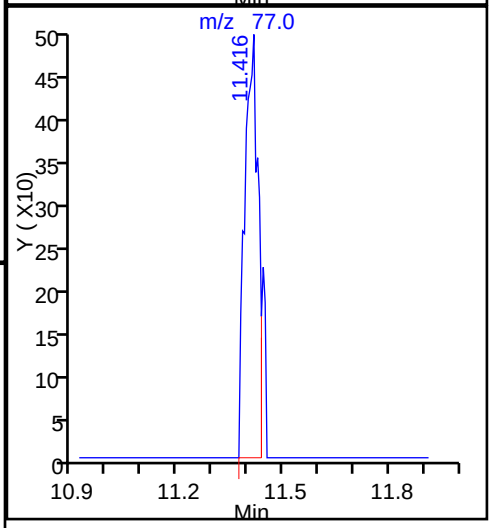
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

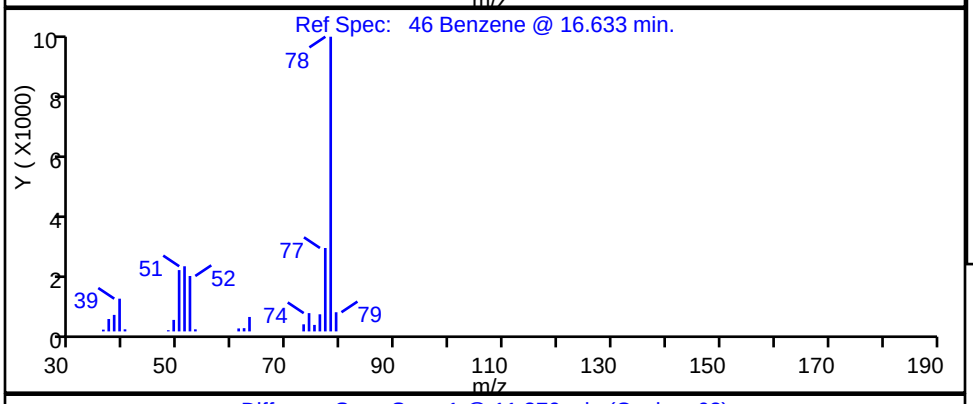
46 Benzene, CAS: 71-43-2

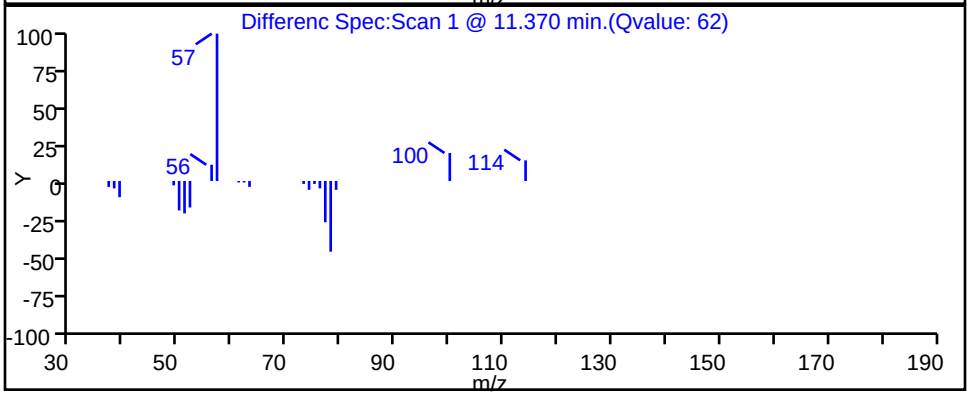










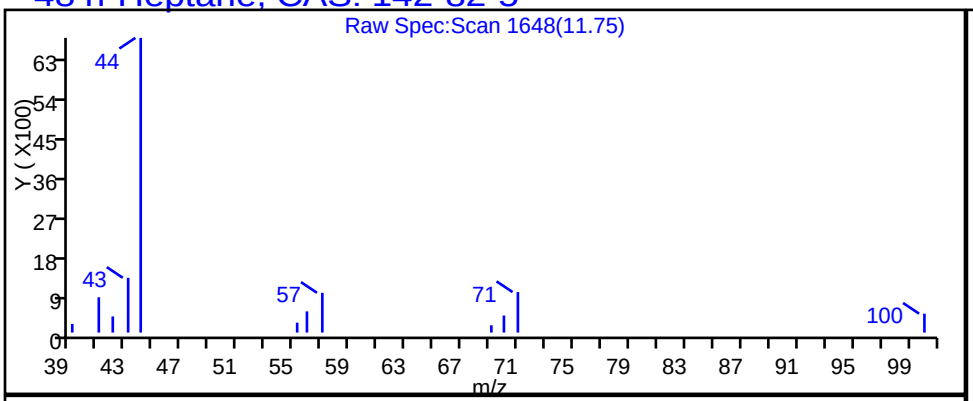


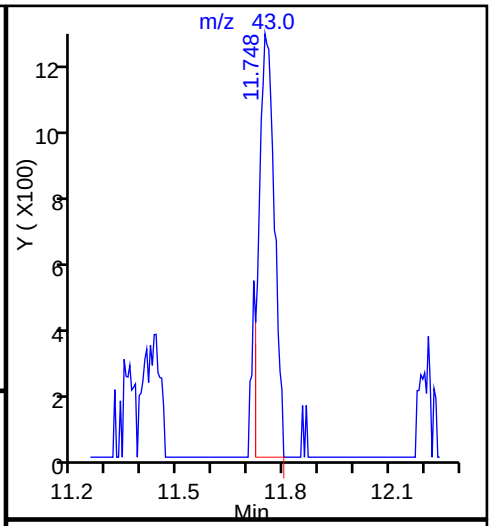
Report Date: 30-Oct-2015 13:32:10 Chrom Revision: 2.2 08-Oct-2015 07:17:48

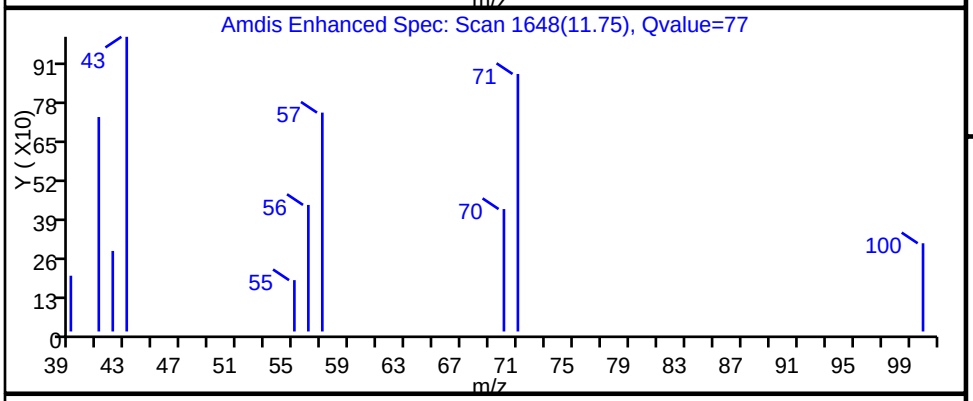
TestAmerica Burlington

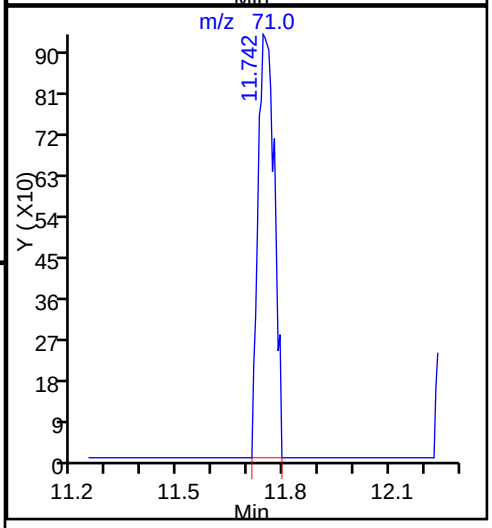
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

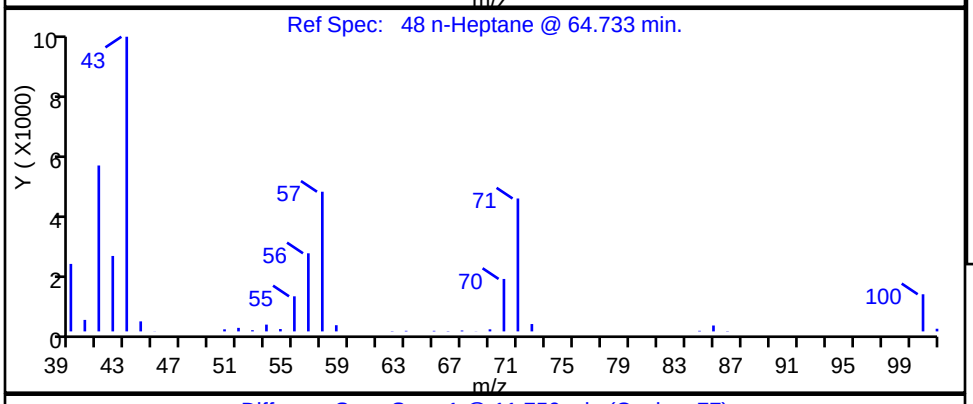
48 n-Heptane, CAS: 142-82-5

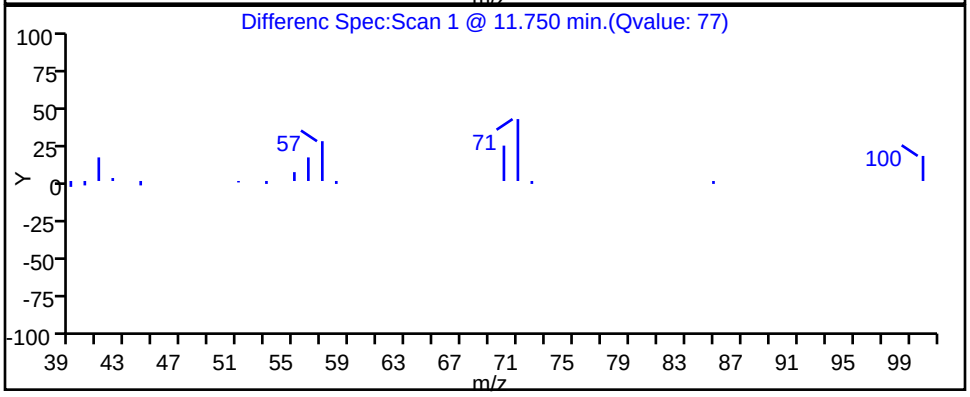












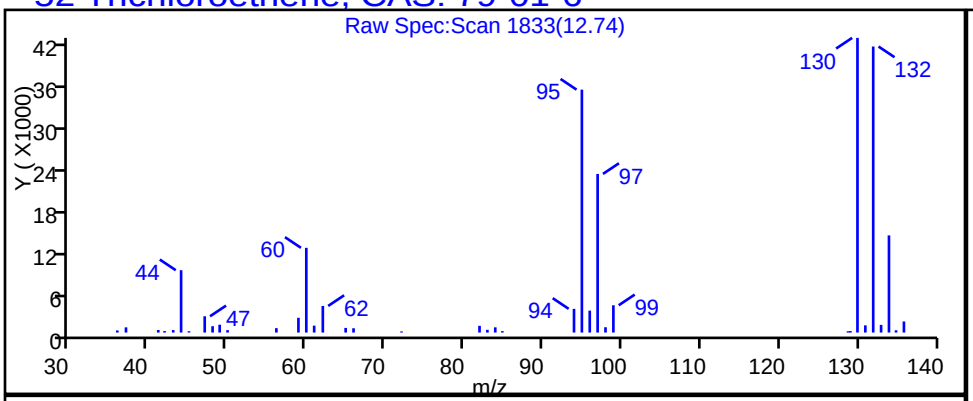
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

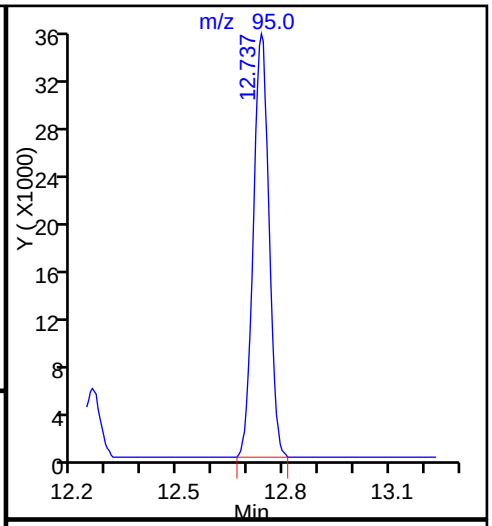
TestAmerica Burlington

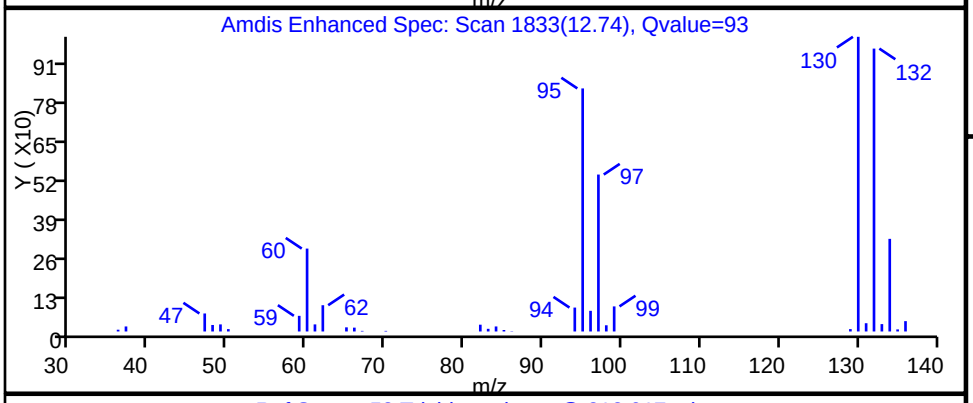
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

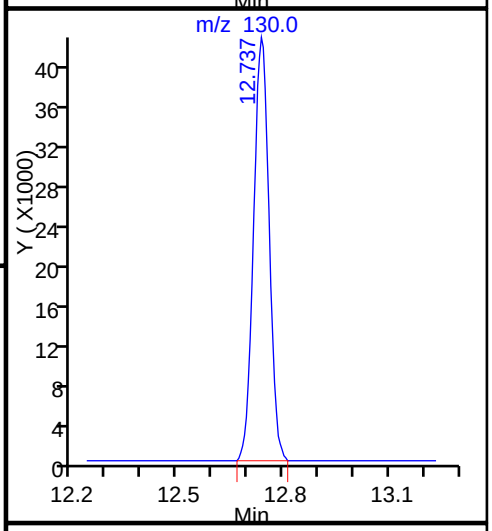
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

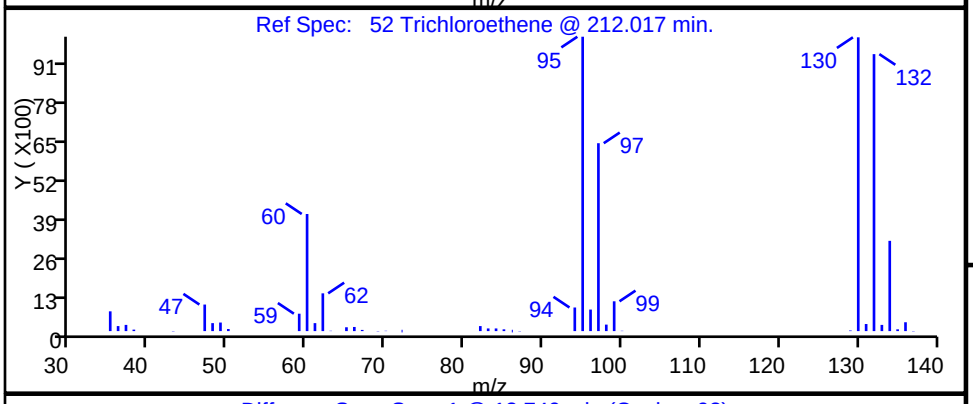
52 Trichloroethene, CAS: 79-01-6

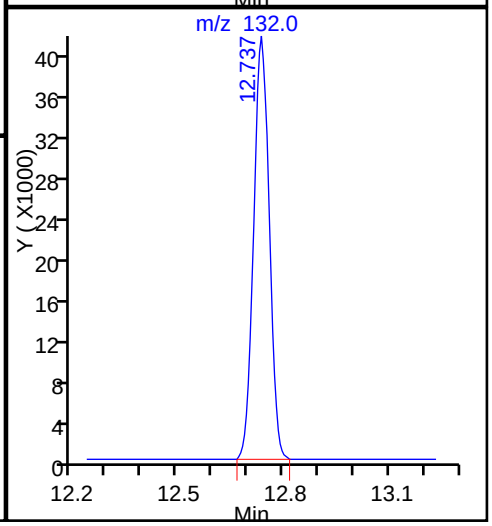


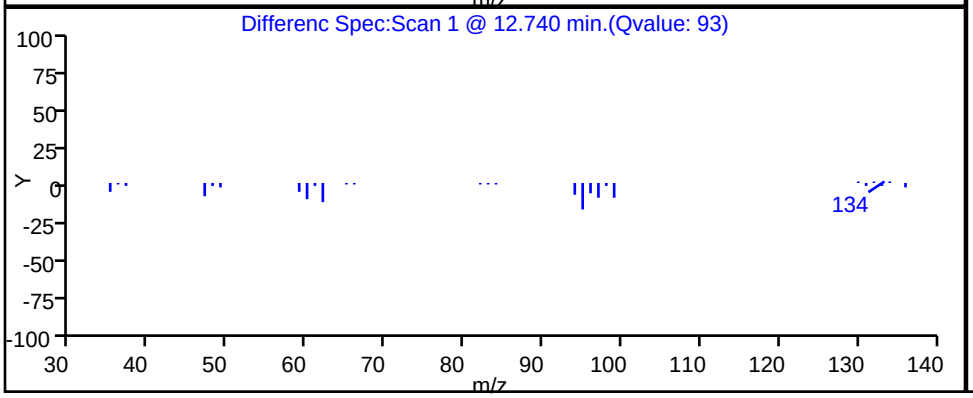










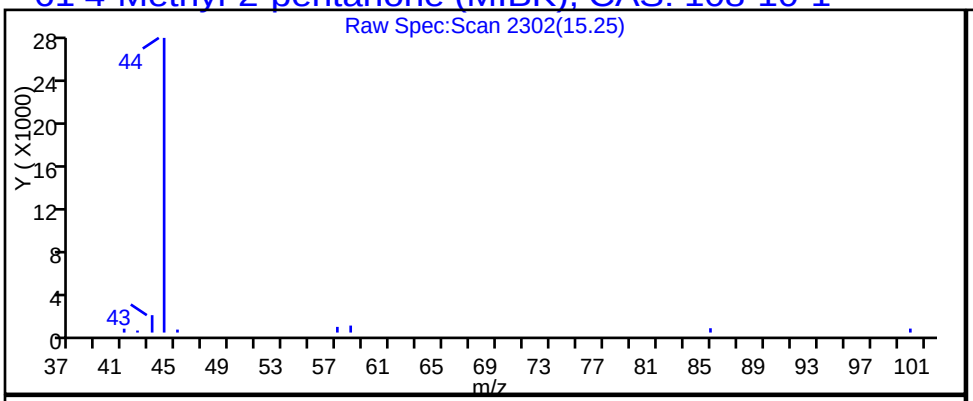


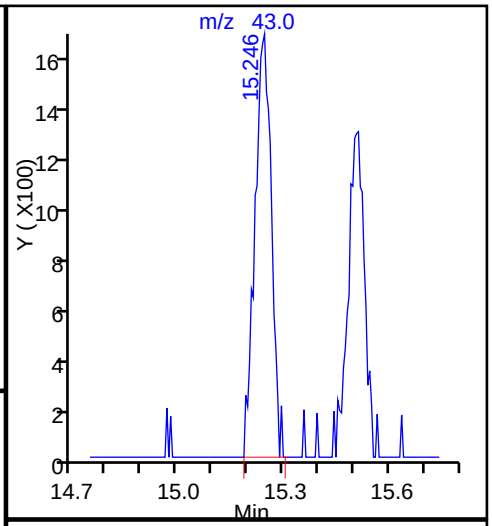
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

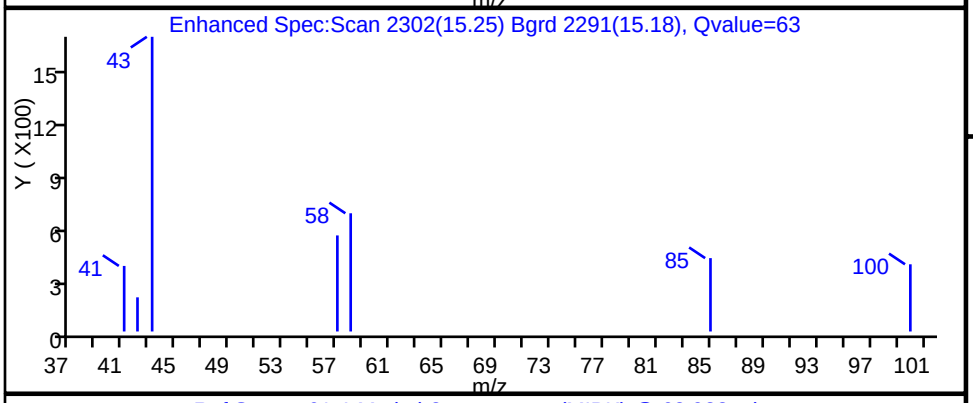
TestAmerica Burlington

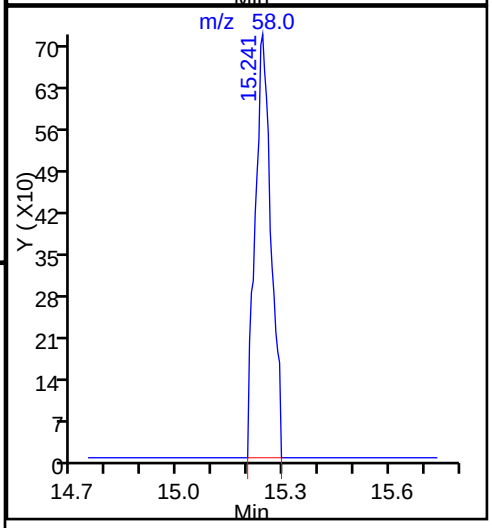
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

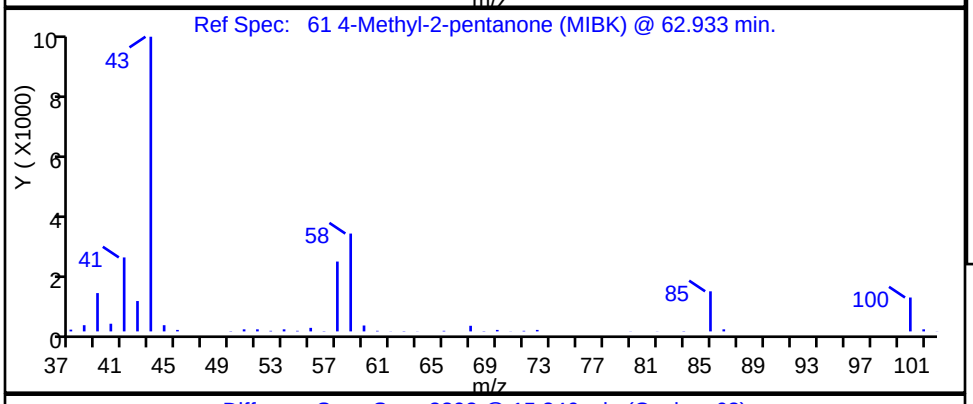
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

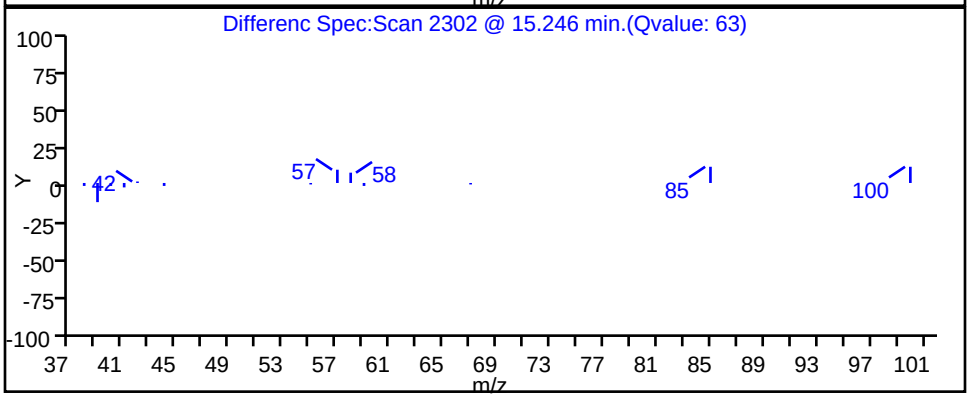










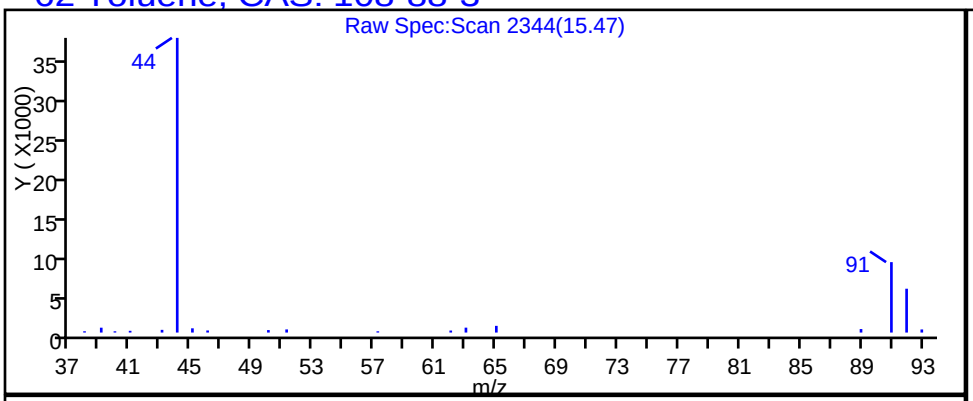


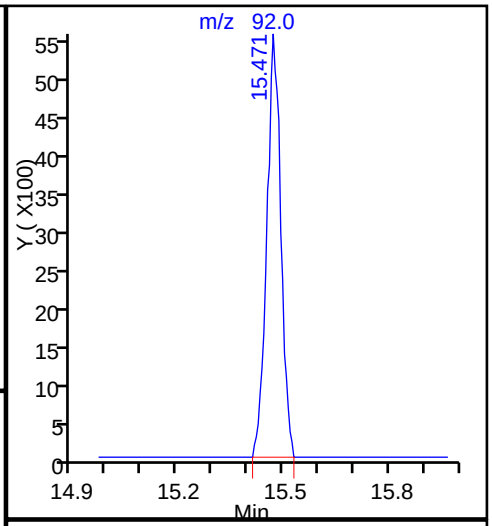
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

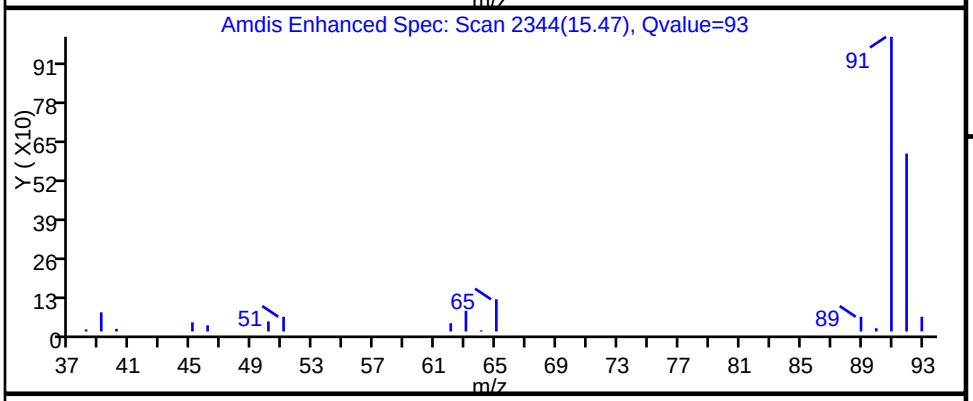
TestAmerica Burlington

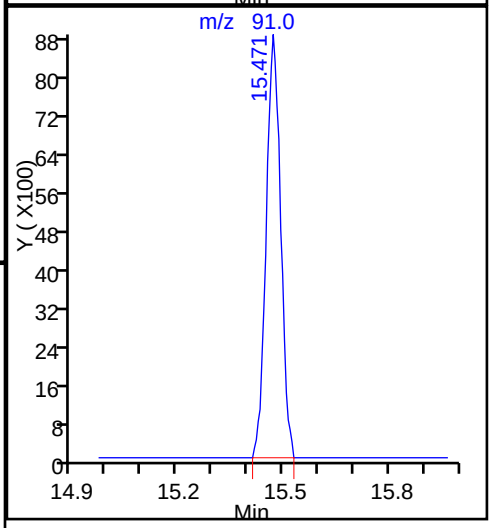
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

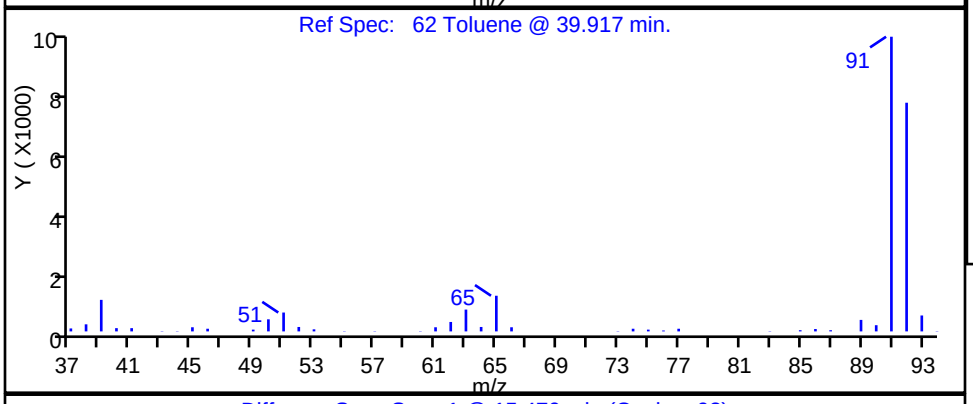
62 Toluene, CAS: 108-88-3

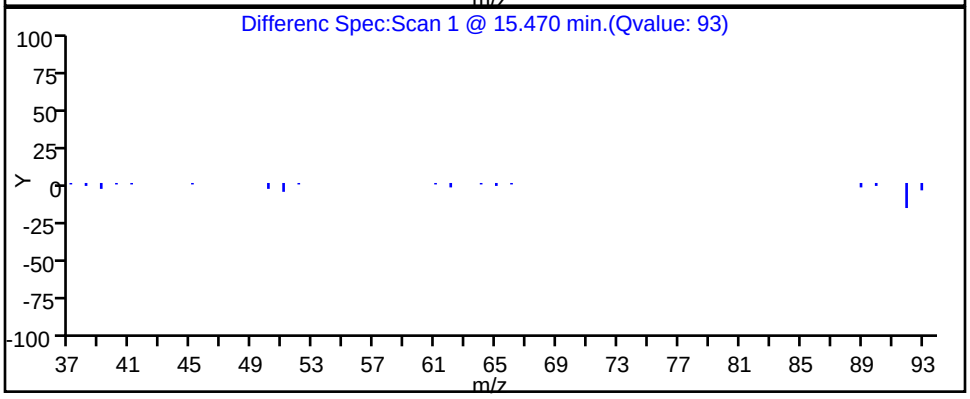












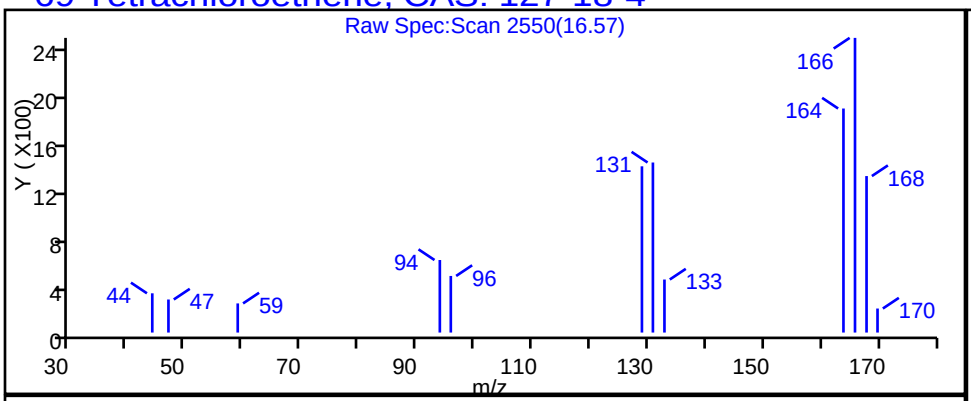
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

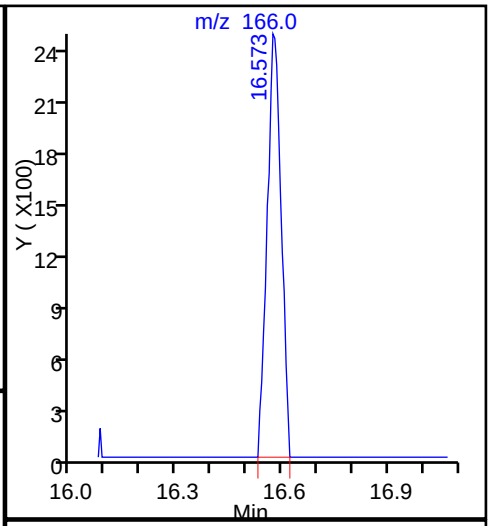
TestAmerica Burlington

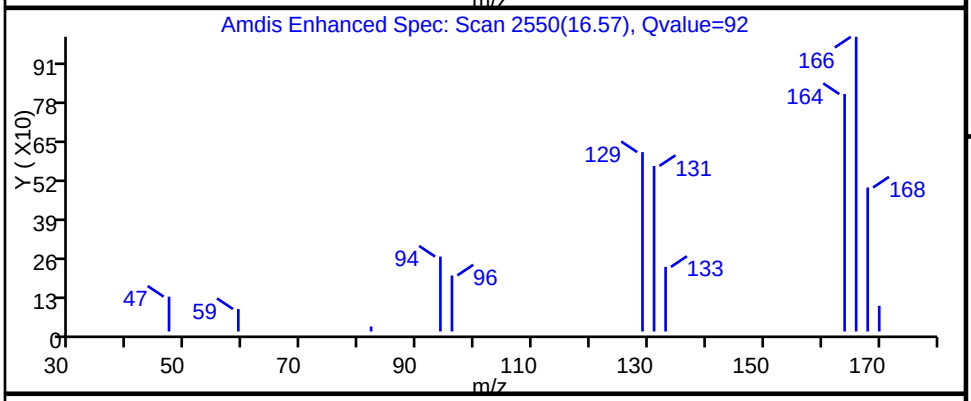
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

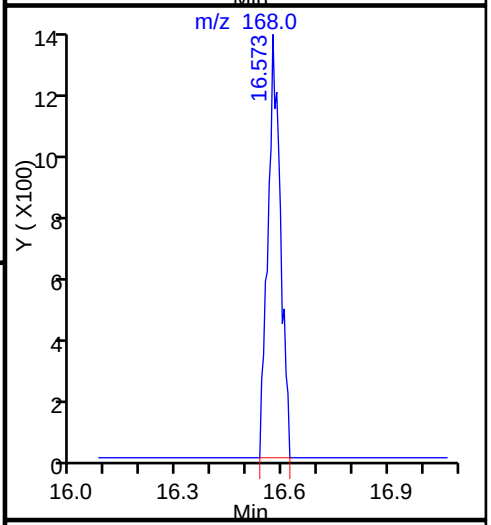
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

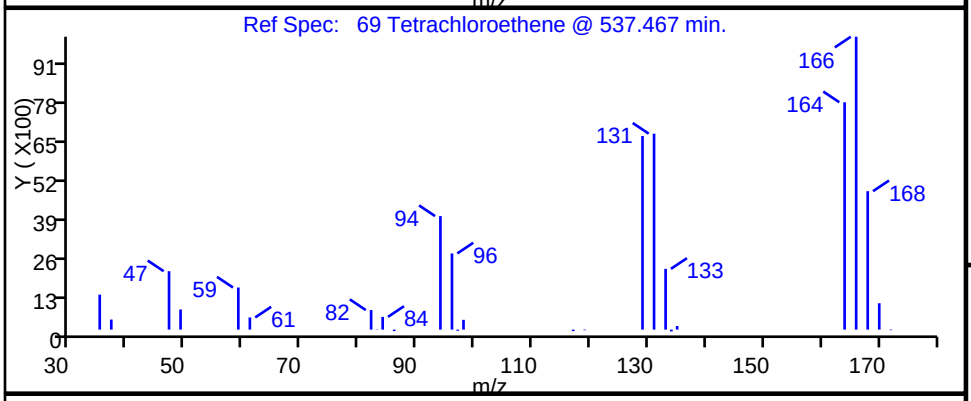
69 Tetrachloroethene, CAS: 127-18-4

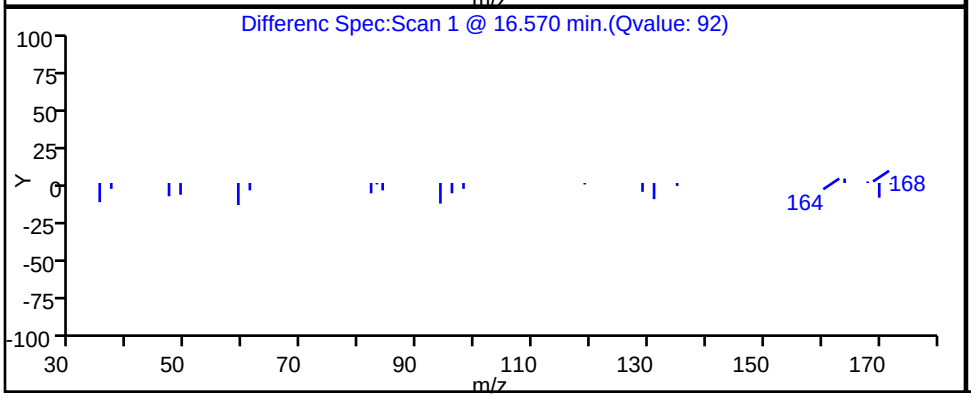


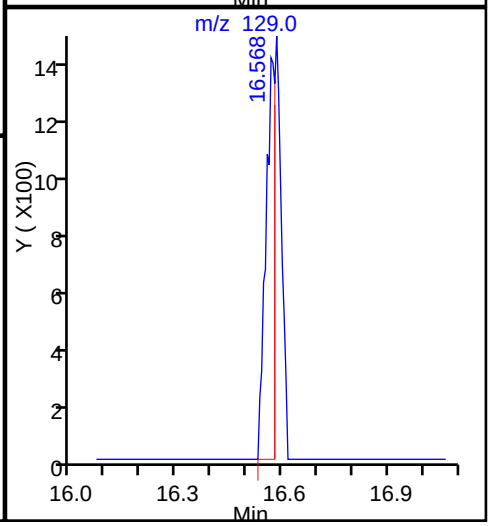










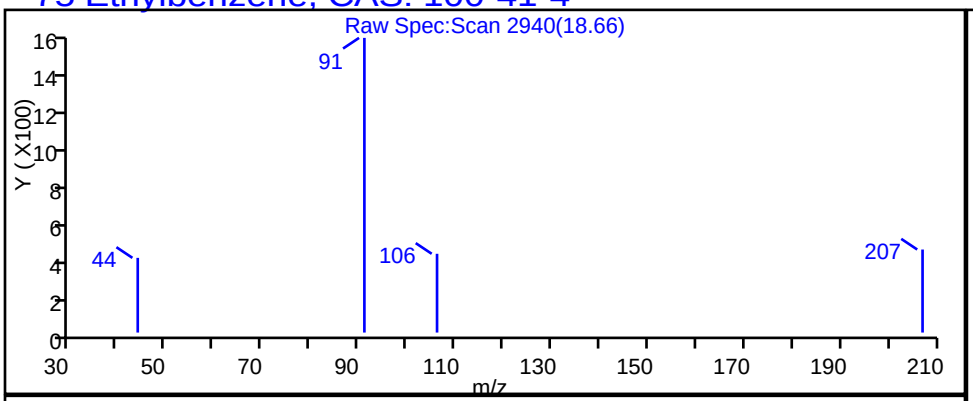


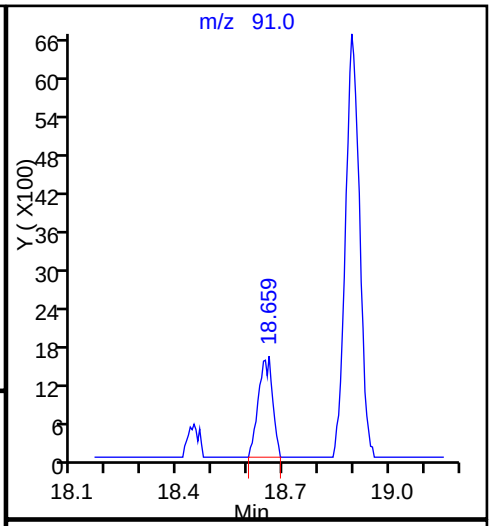
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

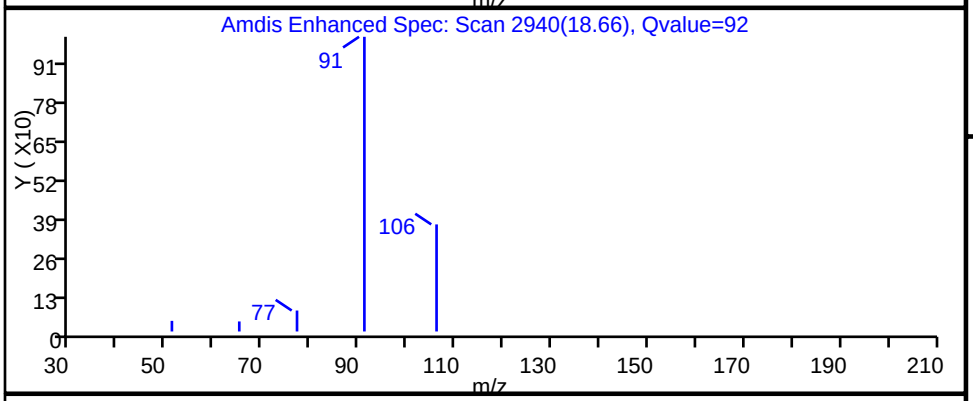
TestAmerica Burlington

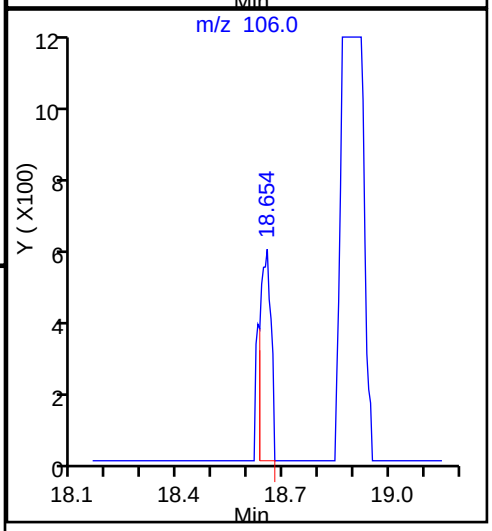
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

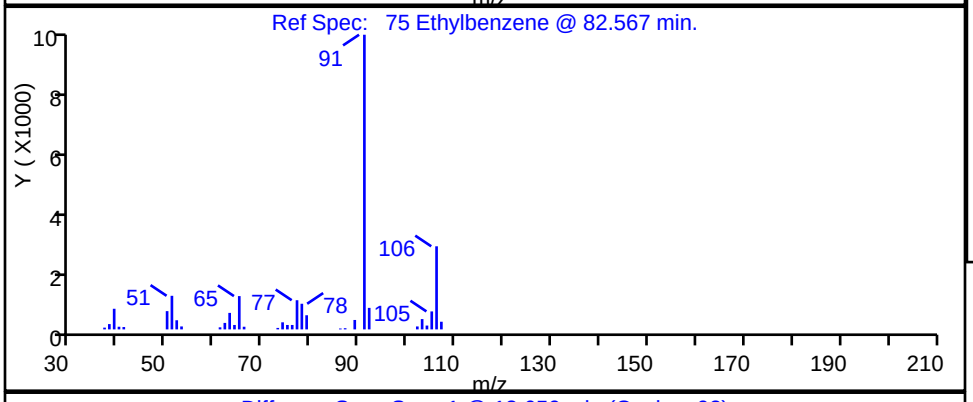
75 Ethylbenzene, CAS: 100-41-4

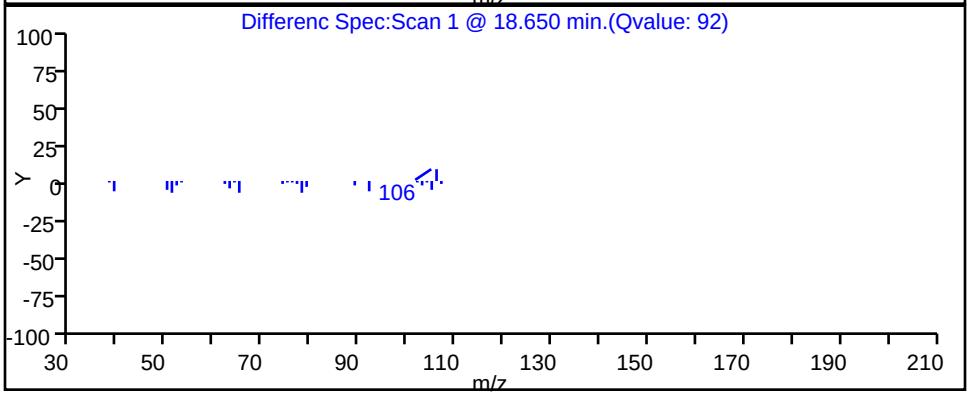










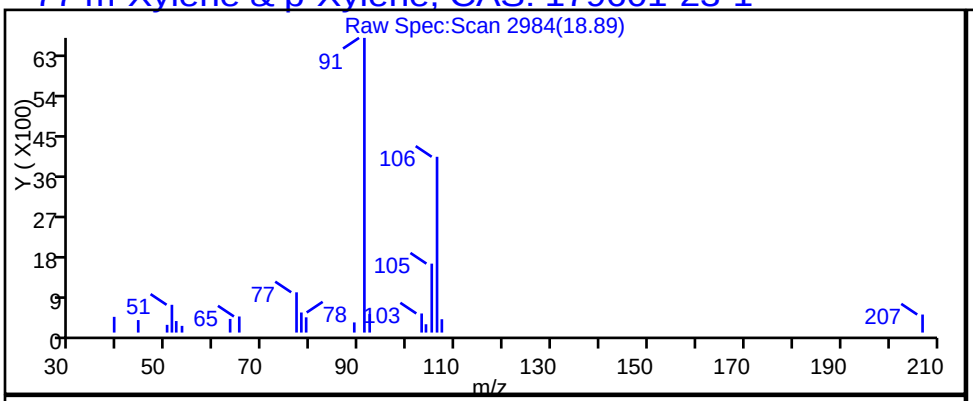


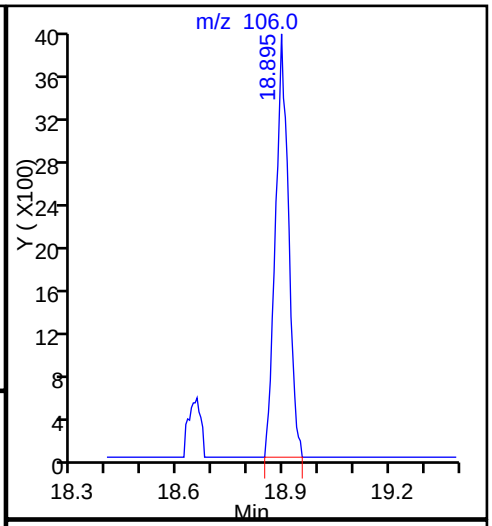
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

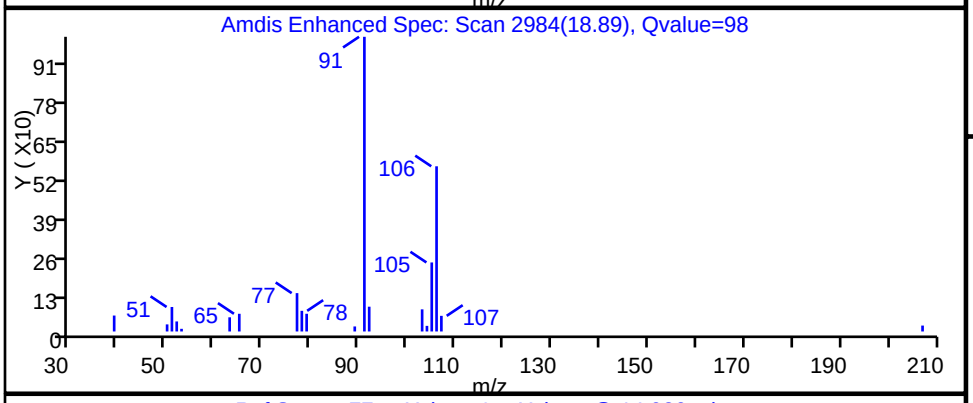
TestAmerica Burlington

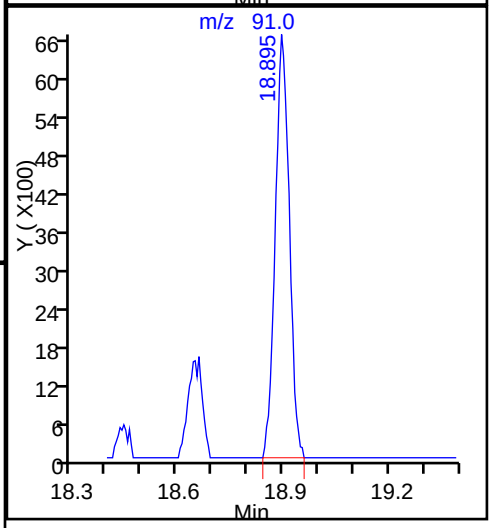
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

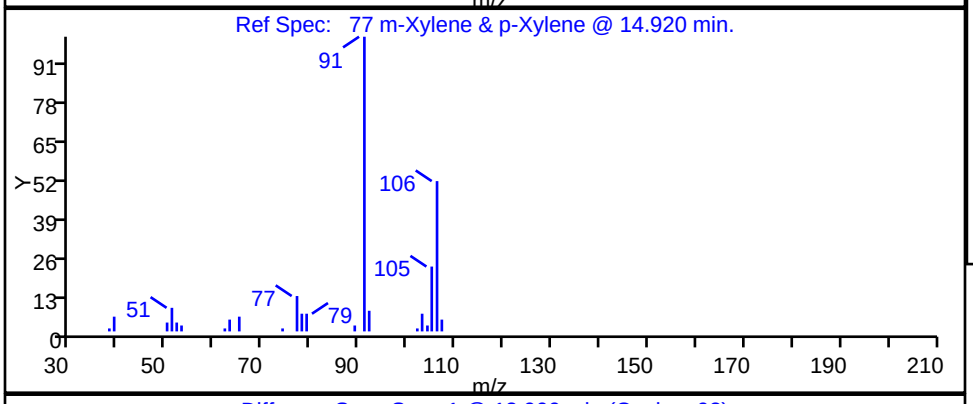
77 m-Xylene & p-Xylene, CAS: 179601-23-1

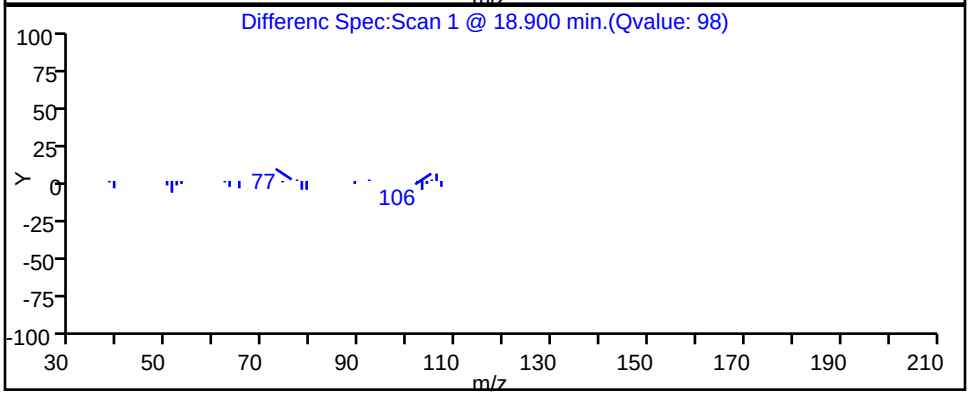












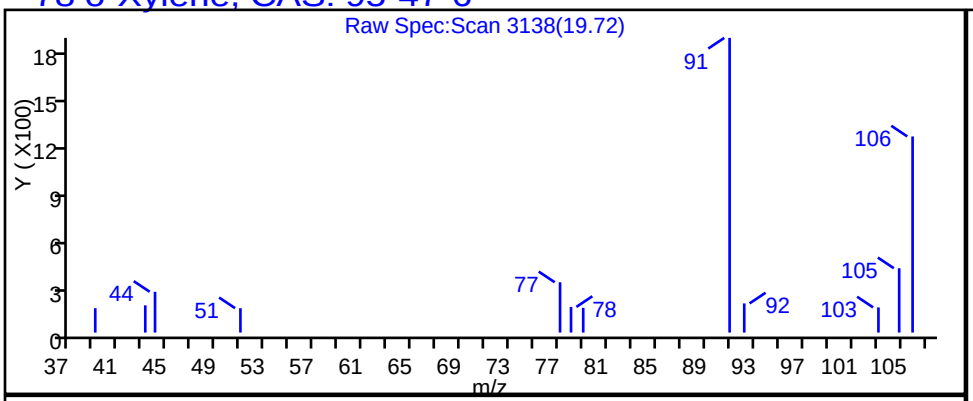
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

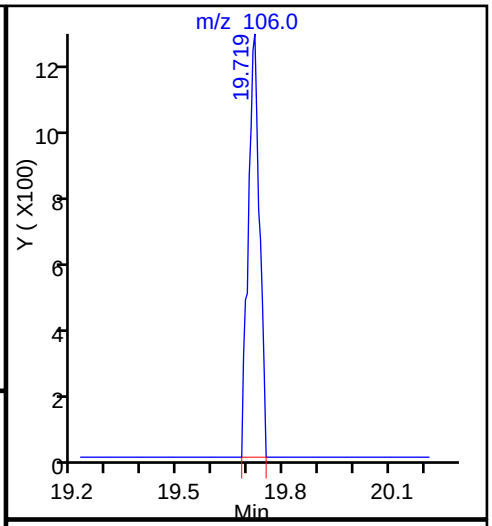
TestAmerica Burlington

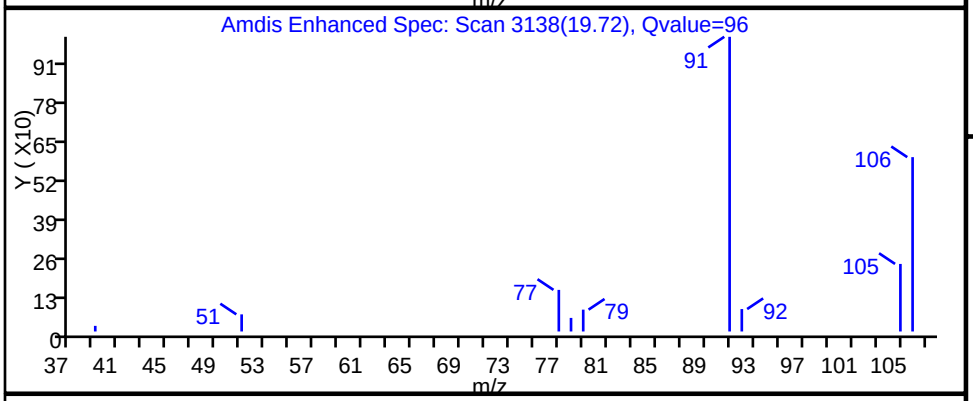
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

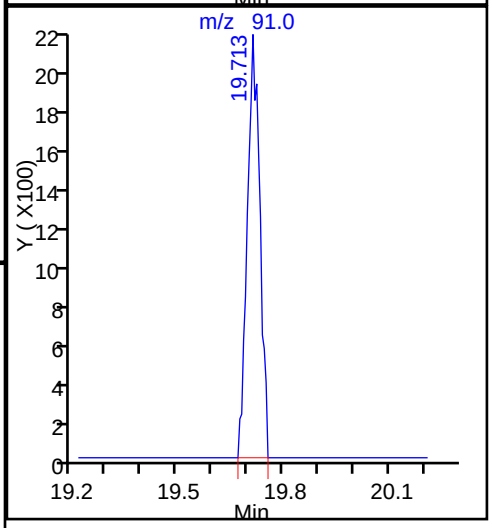
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

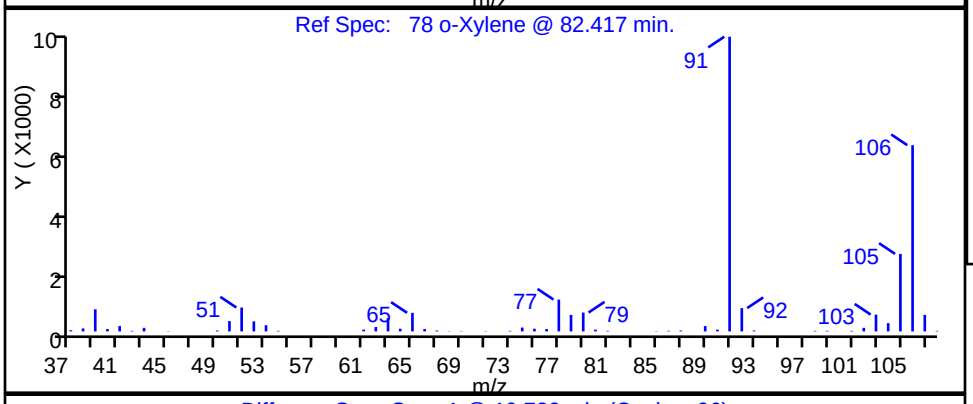
78 o-Xylene, CAS: 95-47-6

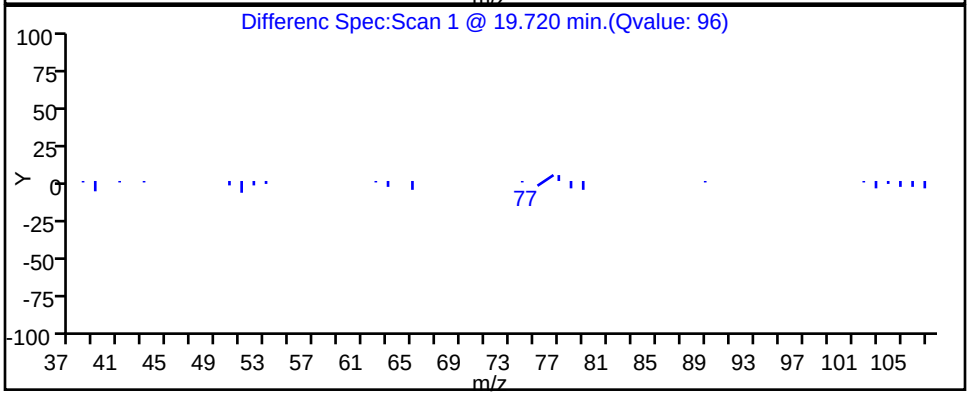












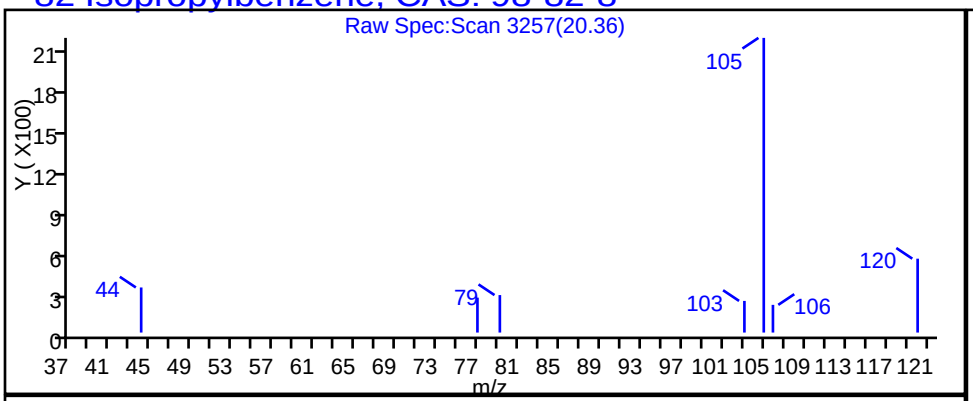
Report Date: 30-Oct-2015 13:32:11 Chrom Revision: 2.2 08-Oct-2015 07:17:48

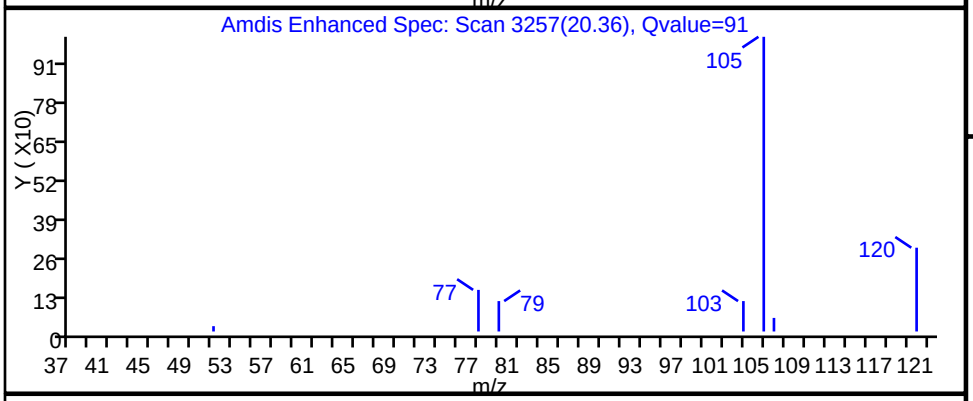
TestAmerica Burlington

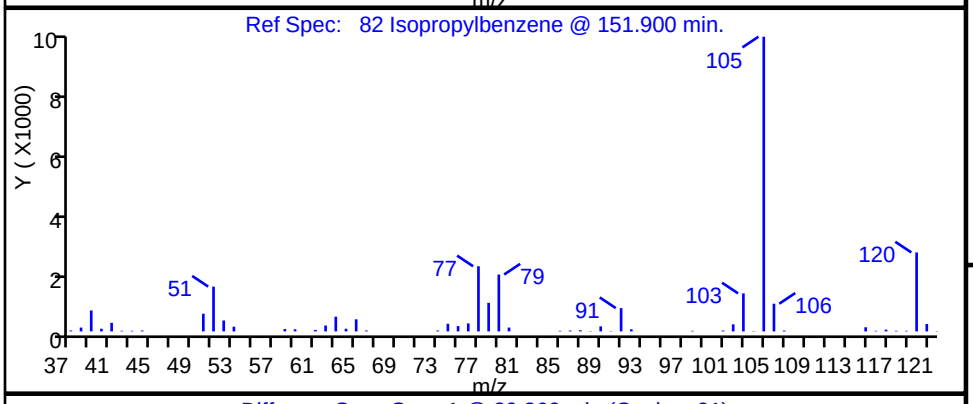
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D

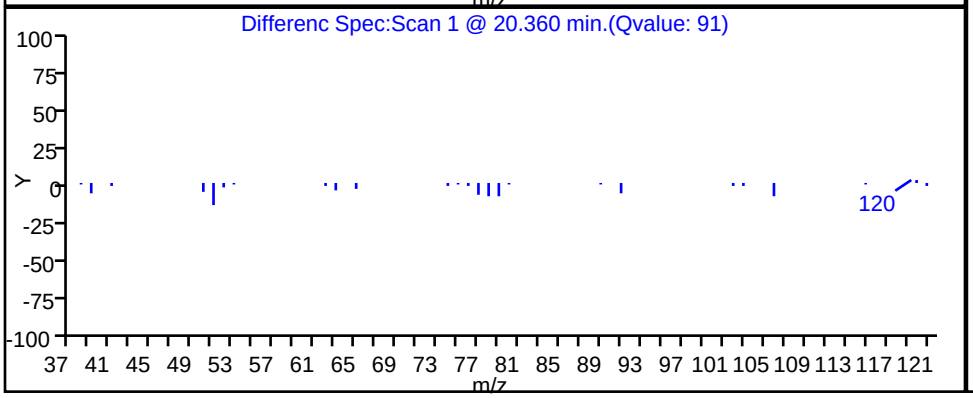
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

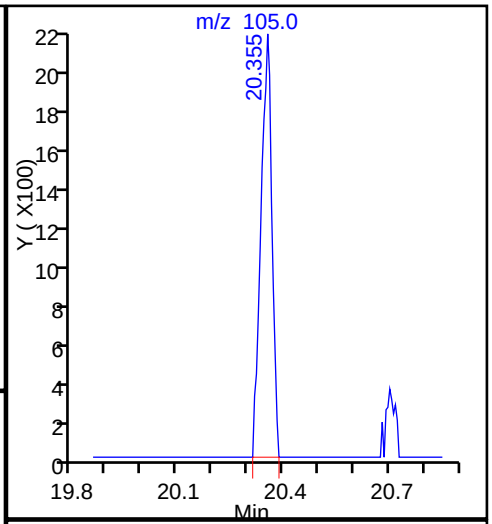
82 Isopropylbenzene, CAS: 98-82-8

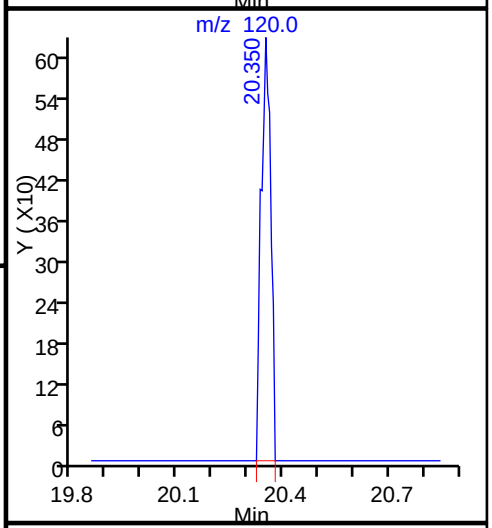


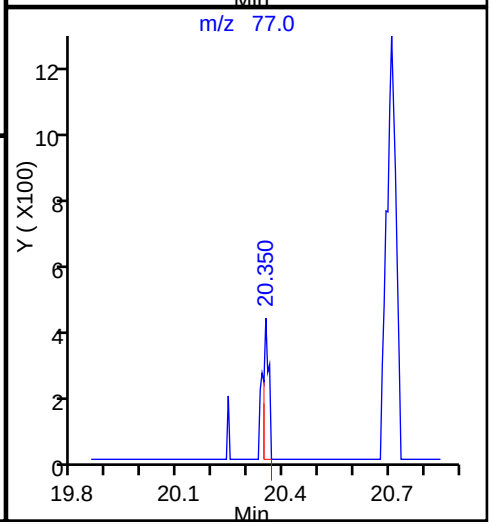












Manual Integration/User Assign Peak Report

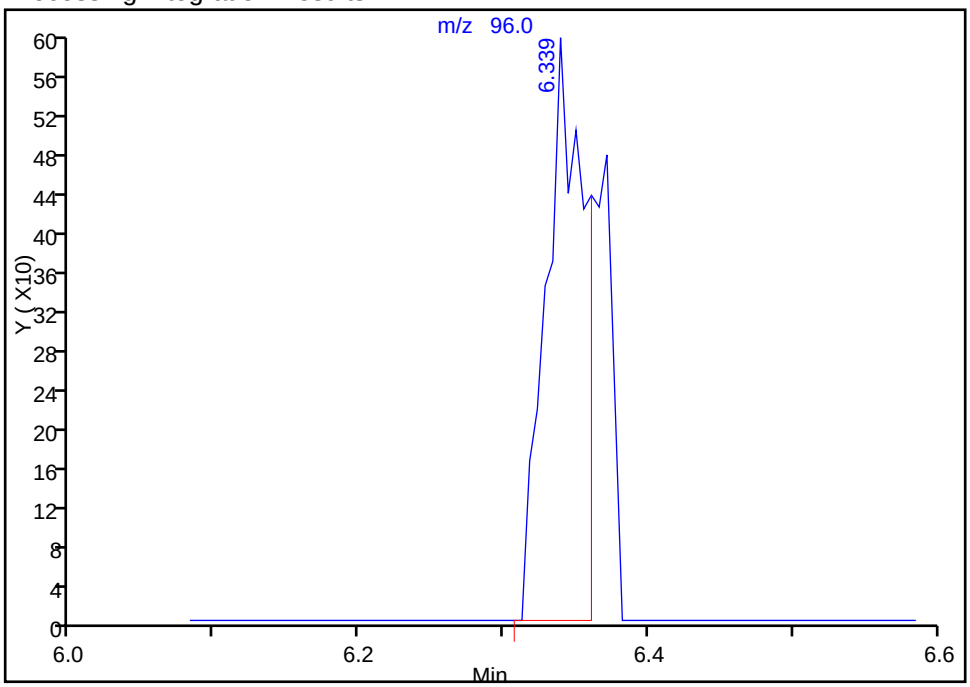
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Processing Integration Results

RT: 6.34
Area: 1109
Amount: 0.103677
Amount Units: ppb v/v



Manual Integration Results

RT: 6.34
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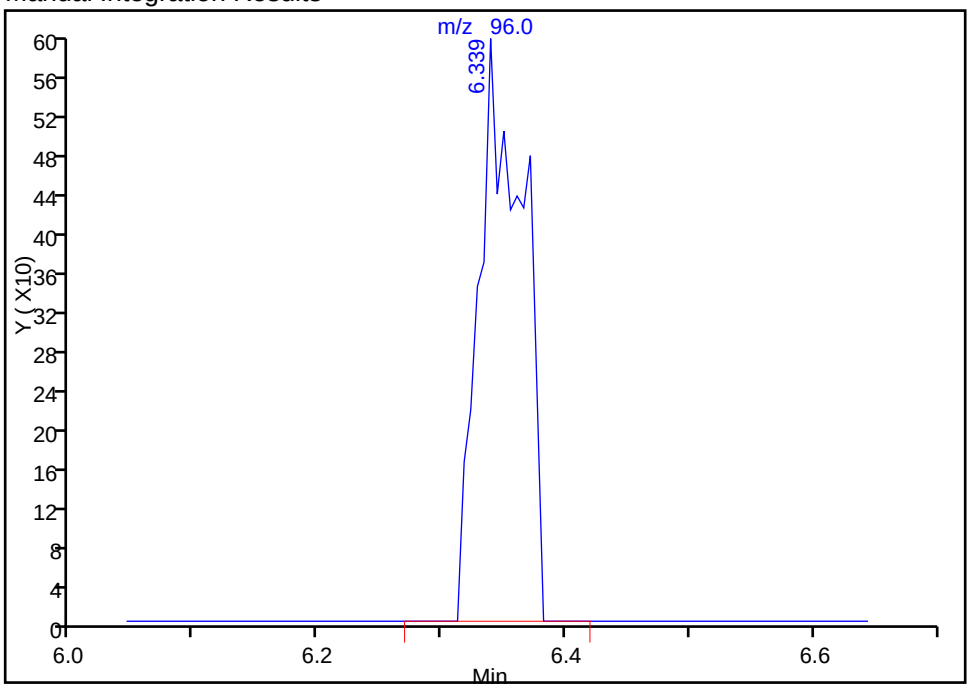
Amount: 0.137519
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:47:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

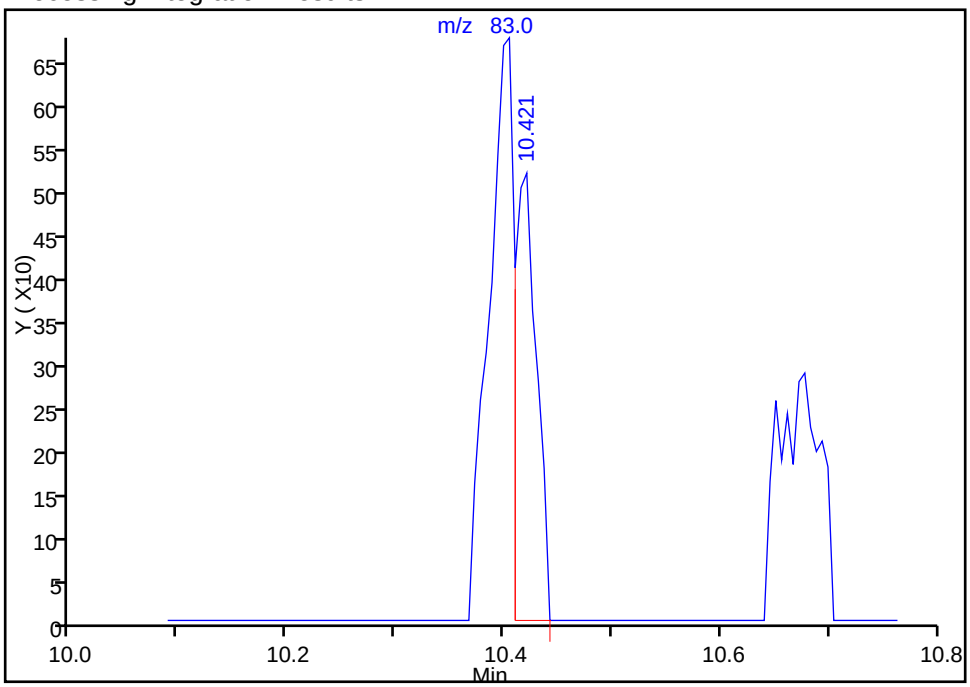
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

41 Chloroform, CAS: 67-66-3

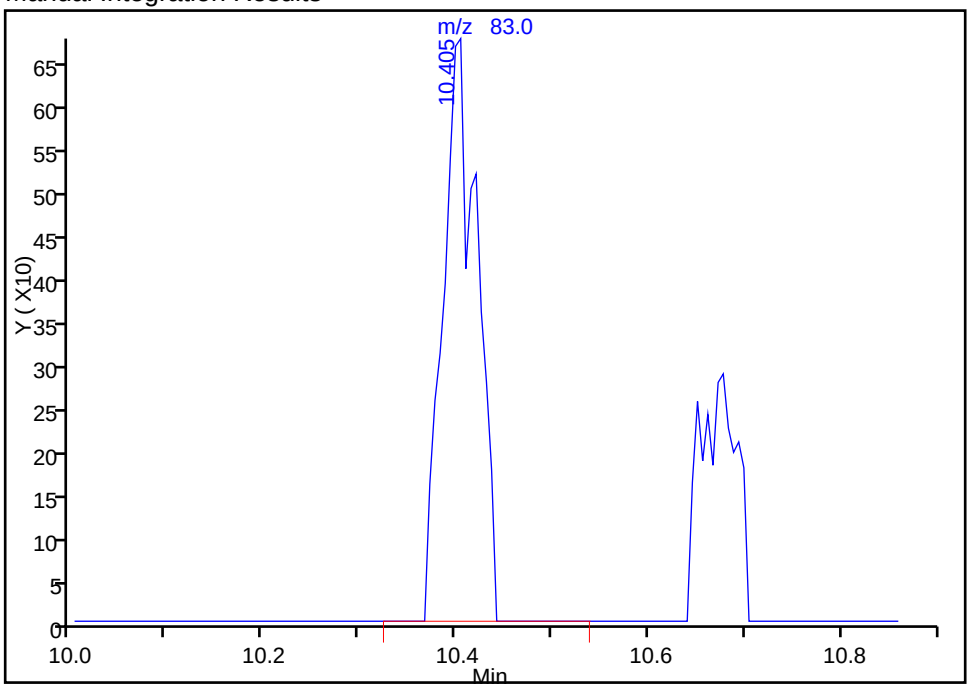
Processing Integration Results

RT: 10.42
Area: 720
Amount: 0.029080
Amount Units: ppb v/v



Manual Integration Results

RT: 10.40
Area: 1683
Amount: 0.067974
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:47:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

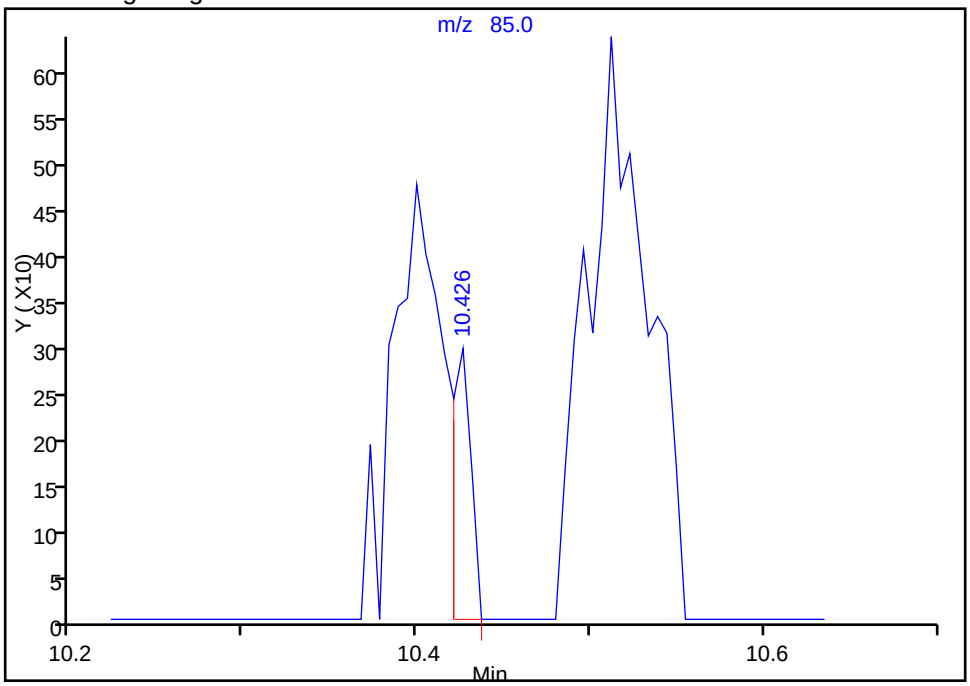
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_23.D				
Injection Date:	06-Oct-2015 02:44:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-17	Lab Sample ID:	200-29972-17		
Client ID:	FR-SS09-092315				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

41 Chloroform, CAS: 67-66-3

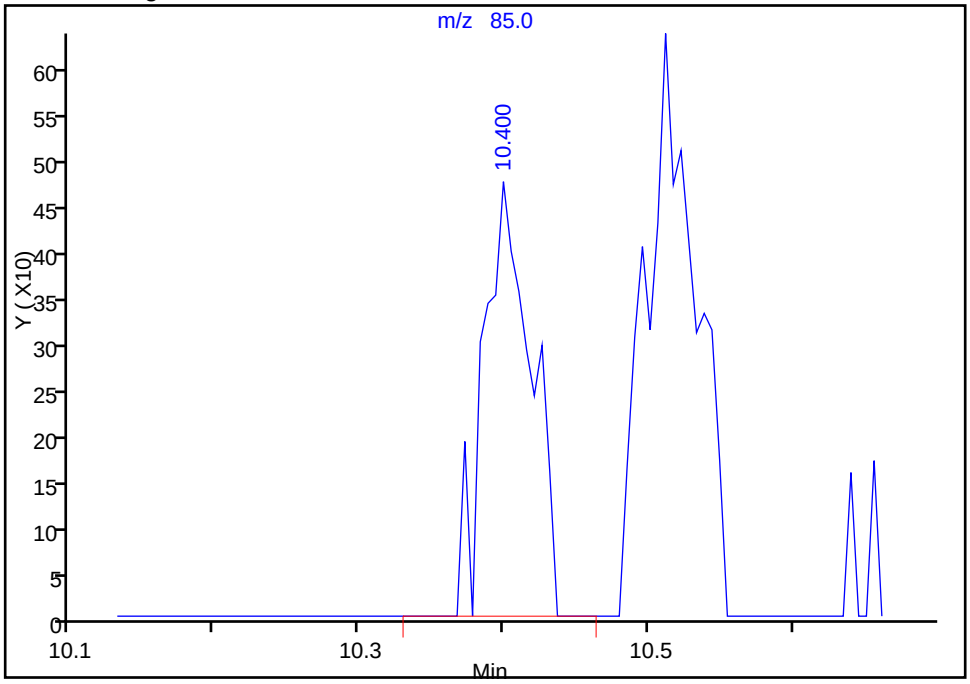
Processing Integration Results

RT: 10.43
Area: 223
Amount: 0.029080
Amount Units: ppb v/v



Manual Integration Results

RT: 10.40
Area: 1091
Amount: 0.067974
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:47:26
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 | Lab Sample ID: 200-29972-18

Matrix: Air | Lab File ID: 15991_021.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 396(mL) | Date Analyzed: 09/30/2015 03:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	1.1		0.50	0.080
75-45-6	Freon 22	86.47	1.0		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.95		0.50	0.093
106-97-8	n-Butane	58.12	9.1		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	*Trichlorofluoromethane*	*137.37*	*87*	*E*	*0.20*	*0.038*
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	1.1		0.20	0.036
67-64-1	Acetone	58.08	21		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	12		5.0	0.98
75-15-0	Carbon disulfide	76.14	0.47	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.53		0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	1.1		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.37		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	2.6		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	1.1		0.20	0.046
110-82-7	Cyclohexane	84.16	0.27		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.12		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.46		0.20	0.039
71-43-2	Benzene	78.11	0.85		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.97		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 | Lab Sample ID: 200-29972-18

Matrix: Air | Lab File ID: 15991_021.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 396(mL) | Date Analyzed: 09/30/2015 03:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.35		0.20	0.040
79-01-6	Trichloroethene	131.39	0.046		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.16	J	0.50	0.050
108-88-3	Toluene	92.14	1.8		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.077	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.14	J	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.82		0.50	0.071
95-47-6	Xylene, o-	106.17	0.29		0.20	0.037
1330-20-7	Xylene (total)	106.17	1.1		0.70	0.037
100-42-5	Styrene	104.15	0.18	J	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.040	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.047	J	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.083	J	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.11	J	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.36		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.13	J	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.073	J	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 Lab Sample ID: 200-29972-18

Matrix: Air Lab File ID: 15991_021.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 396(mL) Date Analyzed: 09/30/2015 03:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.13	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 | Lab Sample ID: 200-29972-18

Matrix: Air | Lab File ID: 15991_021.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 396(mL) | Date Analyzed: 09/30/2015 03:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.2		2.5	0.40
75-45-6	Freon 22	86.47	3.5		1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	2.0		1.0	0.19
106-97-8	n-Butane	58.12	22		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	*Trichlorofluoromethane*	*137.37*	*490*	*E*	*1.1*	*0.21*
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	4.6		0.79	0.14
67-64-1	Acetone	58.08	49		12	2.0
67-63-0	Isopropyl alcohol	60.10	30		12	2.4
75-15-0	Carbon disulfide	76.14	1.5	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	3.8		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	1.5		0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	7.6		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	5.8		1.1	0.25
110-82-7	Cyclohexane	84.16	0.92		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.73		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	2.2		0.93	0.18
71-43-2	Benzene	78.11	2.7		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	3.9		0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 | Lab Sample ID: 200-29972-18

Matrix: Air | Lab File ID: 15991_021.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 396(mL) | Date Analyzed: 09/30/2015 03:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.4		0.82	0.16
79-01-6	Trichloroethene	131.39	0.25		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	0.67	J	2.0	0.20
108-88-3	Toluene	92.14	6.6		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.52	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.56	J	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.99		0.87	0.14
179601-23-1	m,p-Xylene	106.17	3.6		2.2	0.31
95-47-6	Xylene, o-	106.17	1.3		0.87	0.16
1330-20-7	Xylene (total)	106.17	4.8		3.0	0.16
100-42-5	Styrene	104.15	0.77	J	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.20	J	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.23	J	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.41	J	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.55	J	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	1.8		0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	0.74	J	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	0.44	J	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 Lab Sample ID: 200-29972-18

Matrix: Air Lab File ID: 15991_021.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 396(mL) Date Analyzed: 09/30/2015 03:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	0.68	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d
Lims ID: 200-29972-A-18 Lab Sample ID: 200-29972-18
Client ID: FR-IA09-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 03:02:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-021
Misc. Info.: 29972-18
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 14:05:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	99	40318	1.05	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	95	15412	1.00	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.003	5.009	-0.006	98	7108	0.9511	
6 Butane	43	5.287	5.282	0.005	96	98590	9.05	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.298	7.288	0.010	98	3775824	86.9	E
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.673	8.663	0.010	96	14327	1.15	
22 Acetone	43	8.941	8.935	0.006	98	277102	20.6	
23 Carbon disulfide	76	9.165	9.160	0.005	95	14079	0.4690	
24 Isopropyl alcohol	45	9.219	9.219	0.000	100	129328	12.0	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.930	9.925	0.005	87	5208	0.5267	
28 2-Methyl-2-propanol	59	10.123	10.112	0.011	94	4074	0.2144	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.861	10.851	0.010	88	13966	1.06	
34 1,1-Dichloroethane	63	11.434	11.428	0.006	97	7130	0.3681	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.653	0.006	98	15989	2.56	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	72	120485	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83	13.210	13.215	-0.005	89	2132	0.0718	
43 Cyclohexane	84	13.525	13.509	0.016	39	4386	0.2659	M
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	94	37717	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.777	13.782	-0.005	97	4494	0.1155	
46 Isooctane	57	14.189	14.183	0.006	96	20583	0.4606	
47 Benzene	78	14.253	14.253	0.000	94	32918	0.8538	
48 1,2-Dichloroethane	62	14.413	14.419	-0.006	98	17860	0.9651	
49 n-Heptane	43	14.537	14.531	0.006	79	4912	0.3529	M
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	569555	10.0	
53 Trichloroethene	95	15.473	15.478	-0.005	86	918	0.0464	M
54 1,2-Dichloropropane	63		16.013				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88	16.206	16.195	0.011	59	1423	0.2106	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43	17.623	17.623	0.000	95	3311	0.1634	
65 Toluene	92	17.955	17.960	-0.005	93	66547	1.76	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.859				ND	
68 Tetrachloroethene	166	18.982	18.987	-0.005	94	3501	0.0771	
69 2-Hexanone	43	19.266	19.260	0.006	94	3462	0.1372	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		1.11	
* 74 Chlorobenzene-d5	117	20.731	20.731	0.000	83	652544	10.0	
75 Chlorobenzene	112	20.780	20.785	-0.005	77	2560	0.0421	
76 Ethylbenzene	91	20.897	20.897	0.000	98	19301	0.2286	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	28058	0.8228	
79 o-Xylene	106	21.801	21.801	0.000	98	9795	0.2913	
80 Styrene	104	21.834	21.839	-0.005	94	9480	0.1799	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.342	22.352	-0.010	93	4164	0.0404	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91	22.978	22.973	0.005	98	5869	0.0473	
88 4-Ethyltoluene	105	23.144	23.144	0.000	97	9494	0.0834	
89 2-Chlorotoluene	91		23.176				ND	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	92	10924	0.1110	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	97	35369	0.3626	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	16170	0.1343	
96 1,3-Dichlorobenzene	146		24.337				ND	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	69	5855	0.0734	
98 Benzyl chloride	91		24.706				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.135				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.777	28.767	0.010	75	16020	0.1298	M

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003	Amount Added:	20.00	Units: mL	Run Reagent

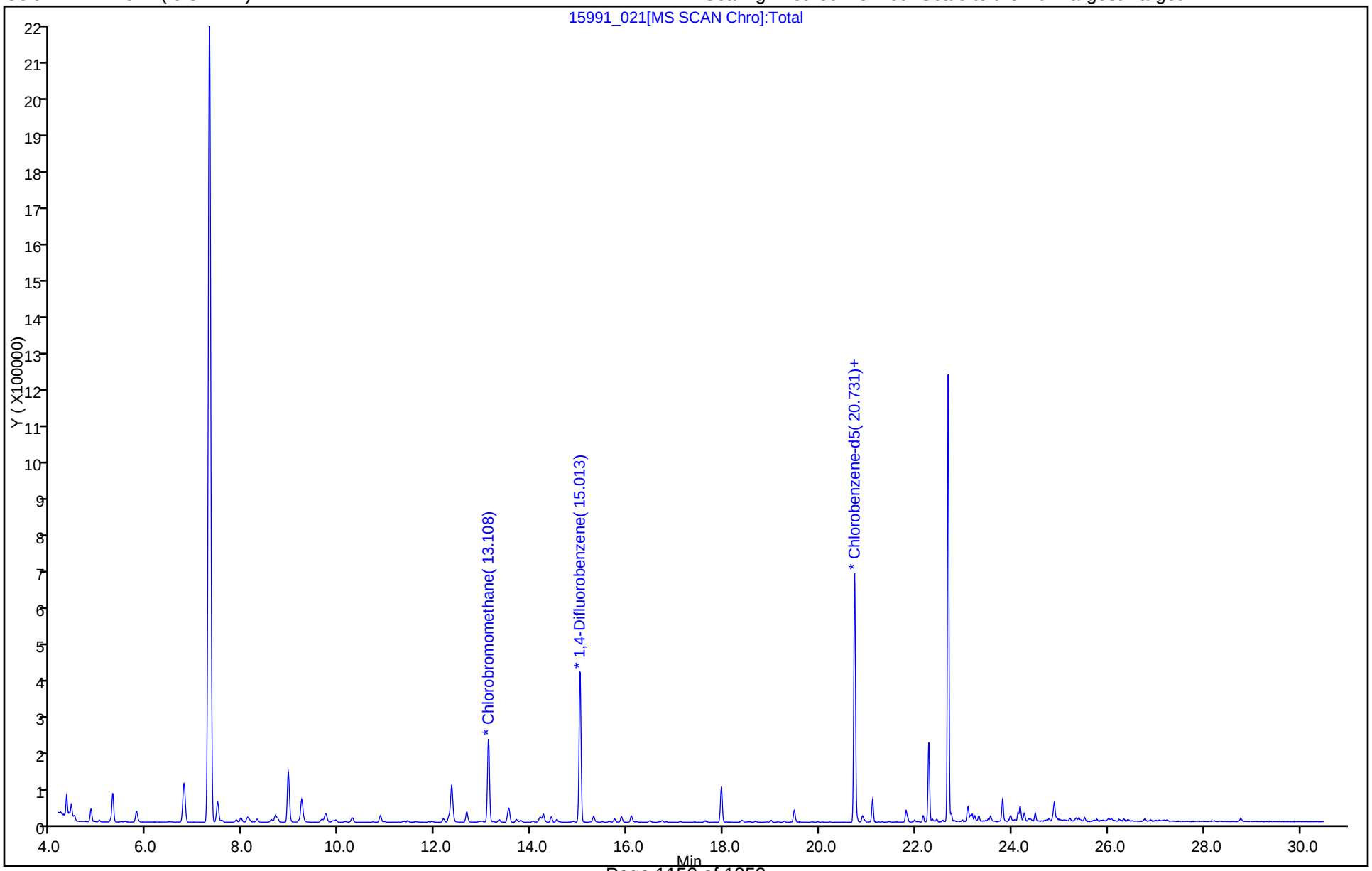
Report Date: 30-Sep-2015 14:18:12 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18	Worklist Smp#:	21
Client ID:	FR-IA09-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



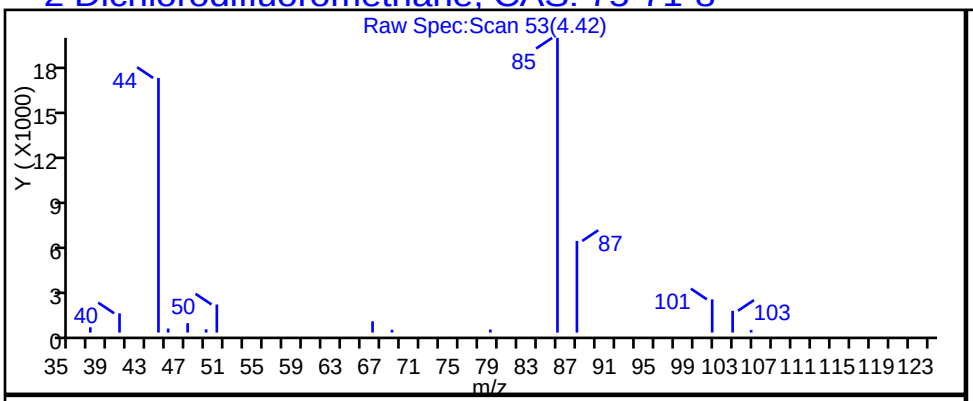
Report Date: 30-Sep-2015 14:18:12 Chrom Revision: 2.2 23-Jul-2015 08:26:08

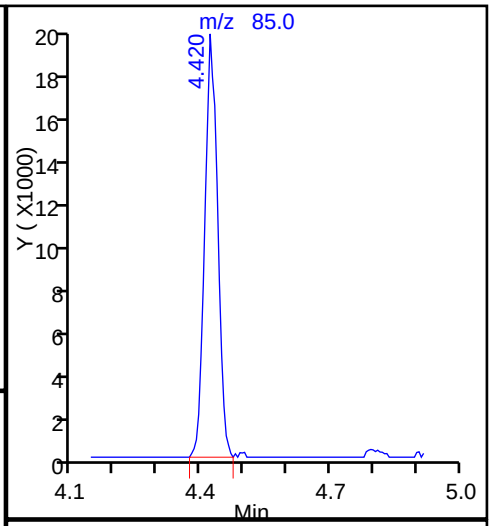
TestAmerica Burlington

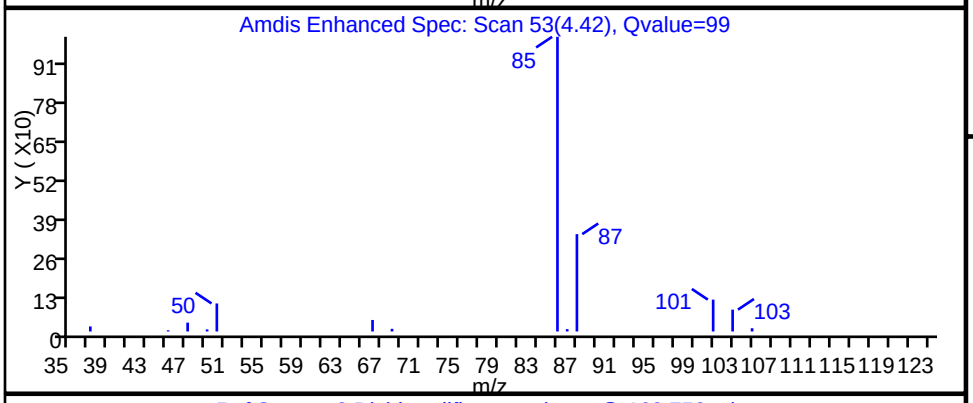
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

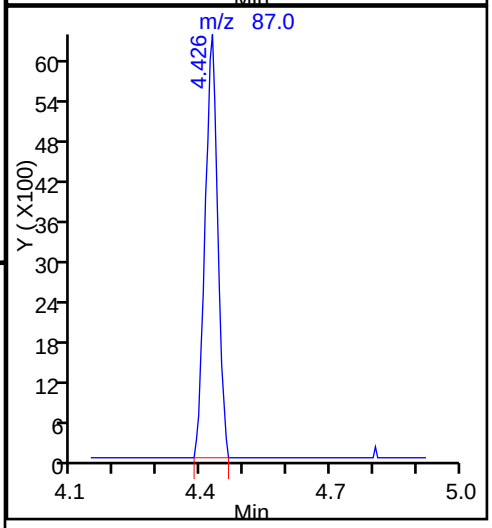
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

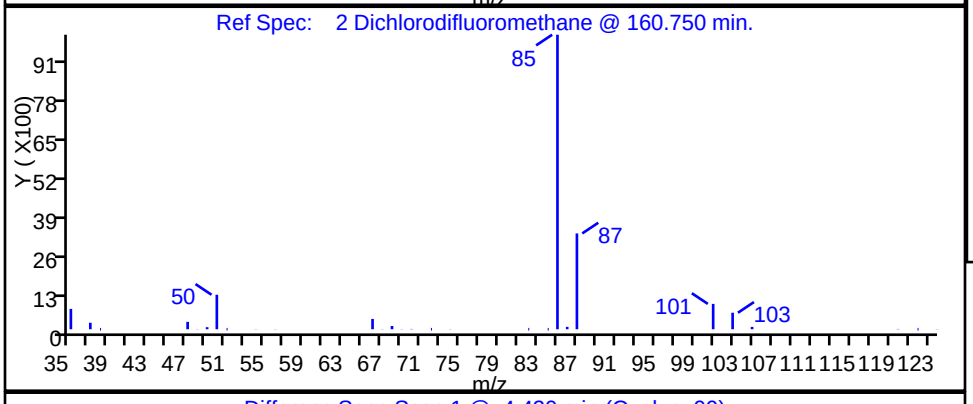
2 Dichlorodifluoromethane, CAS: 75-71-8

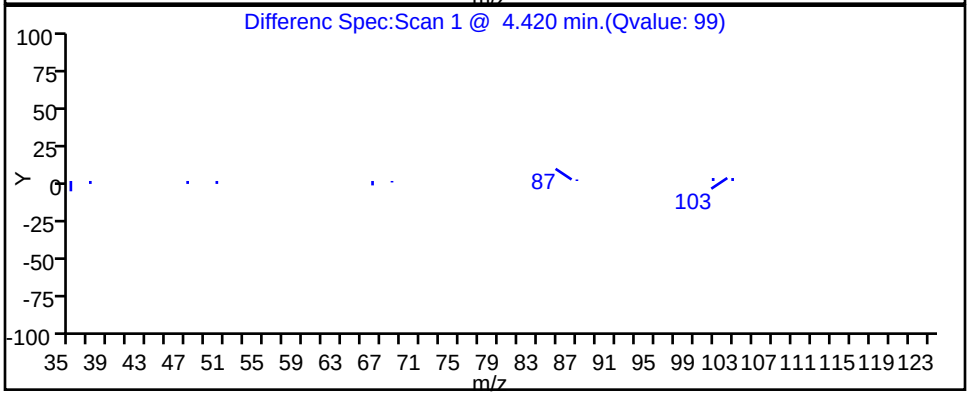












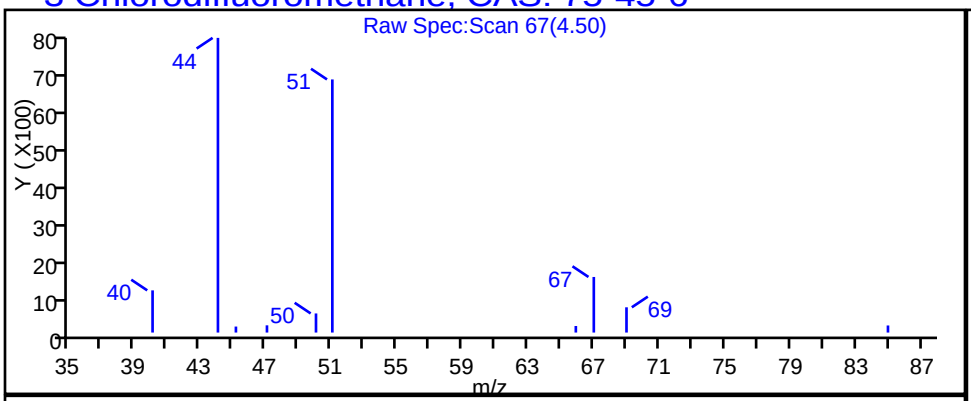
Report Date: 30-Sep-2015 14:18:13 Chrom Revision: 2.2 23-Jul-2015 08:26:08

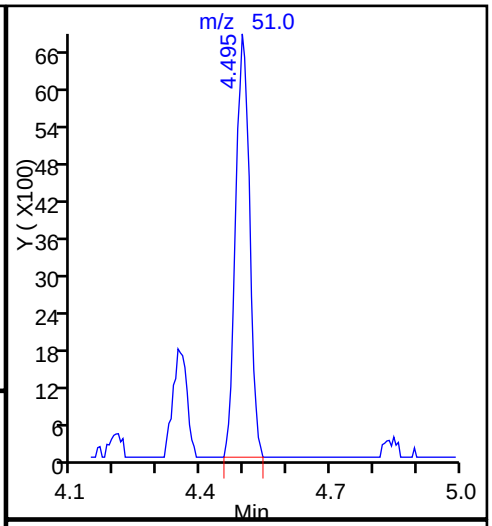
TestAmerica Burlington

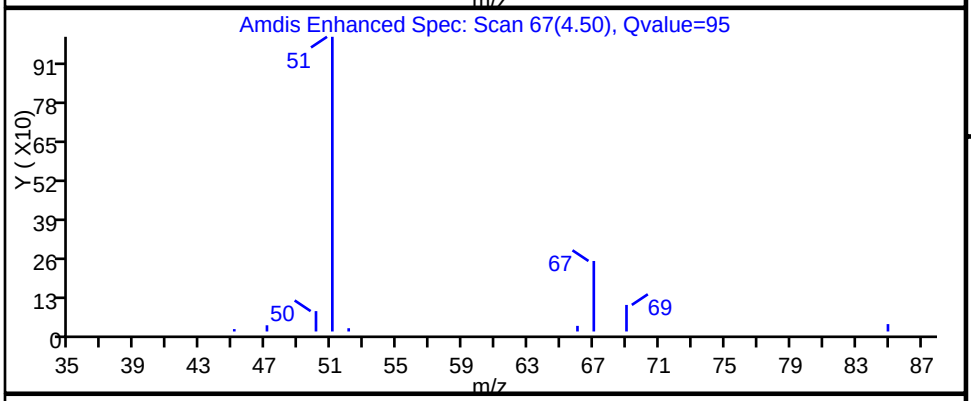
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

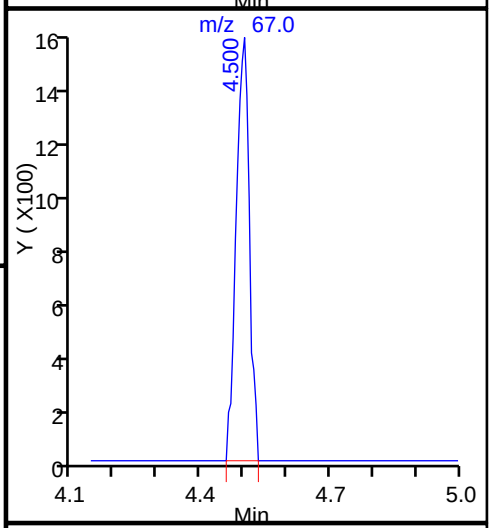
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

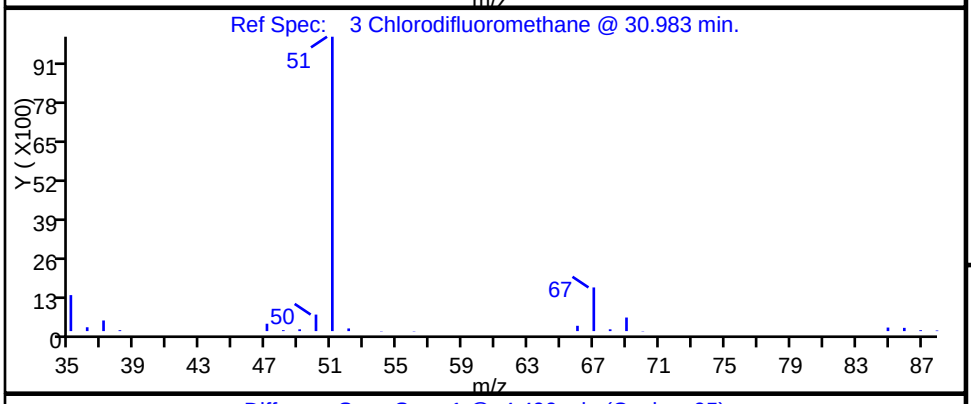
3 Chlorodifluoromethane, CAS: 75-45-6

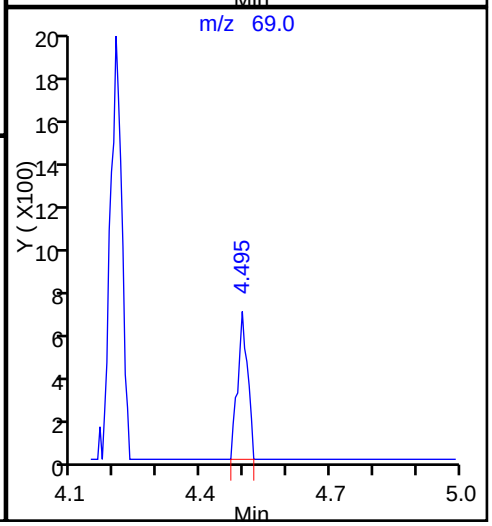


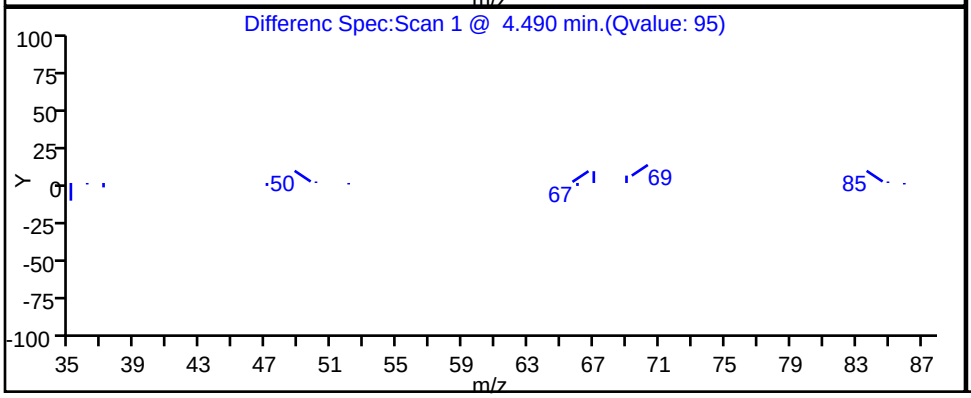












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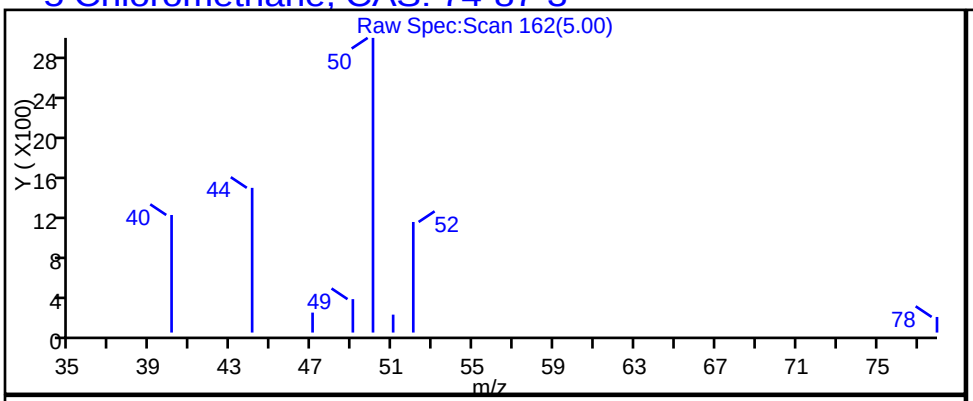
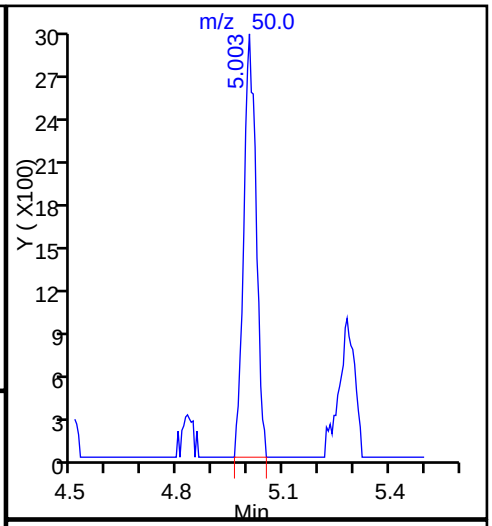
TestAmerica Burlington

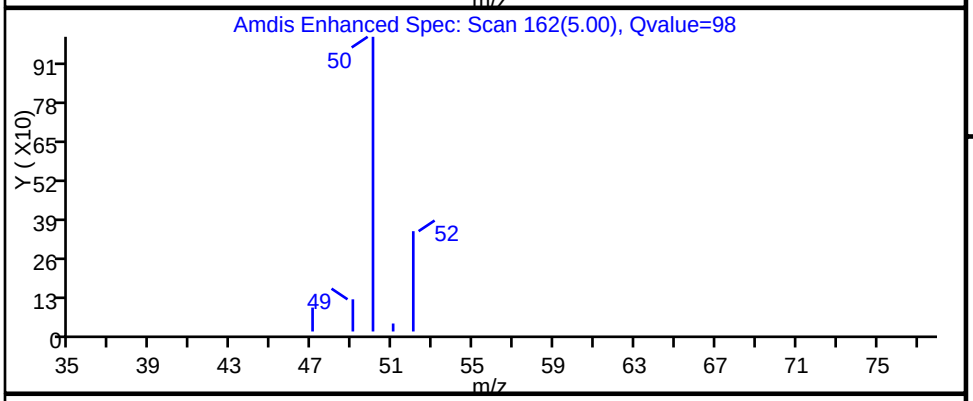
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

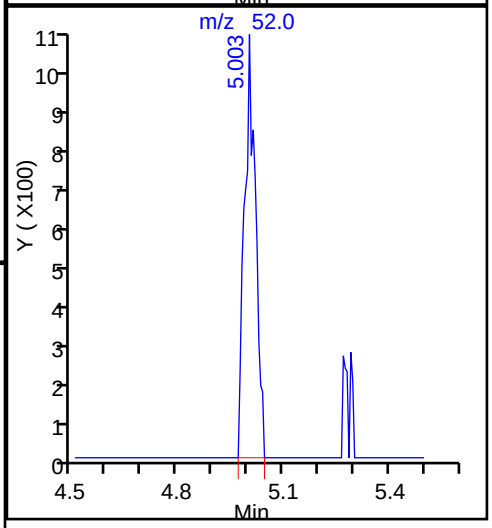
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

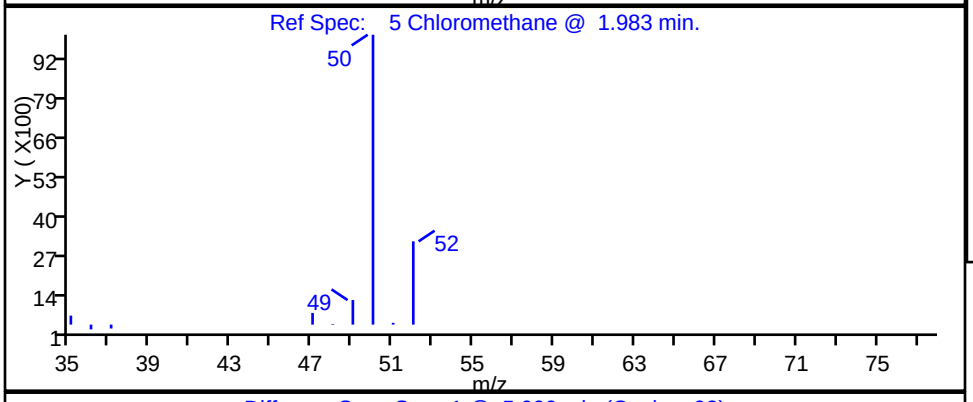
5 Chloromethane, CAS: 74-87-3

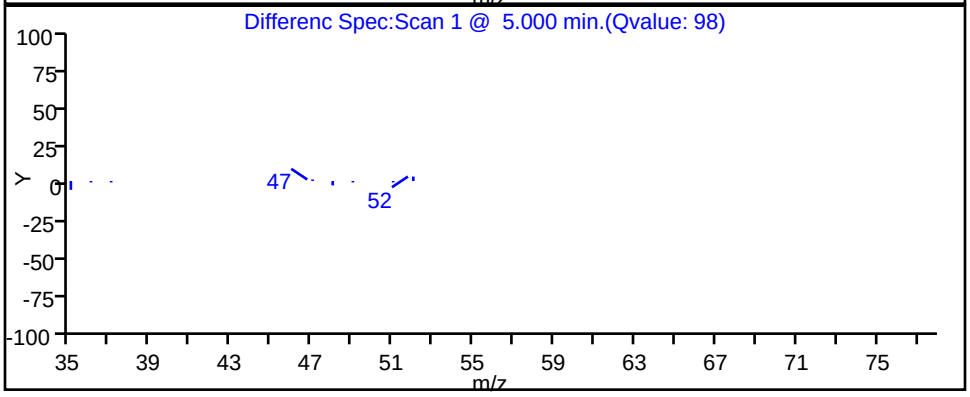












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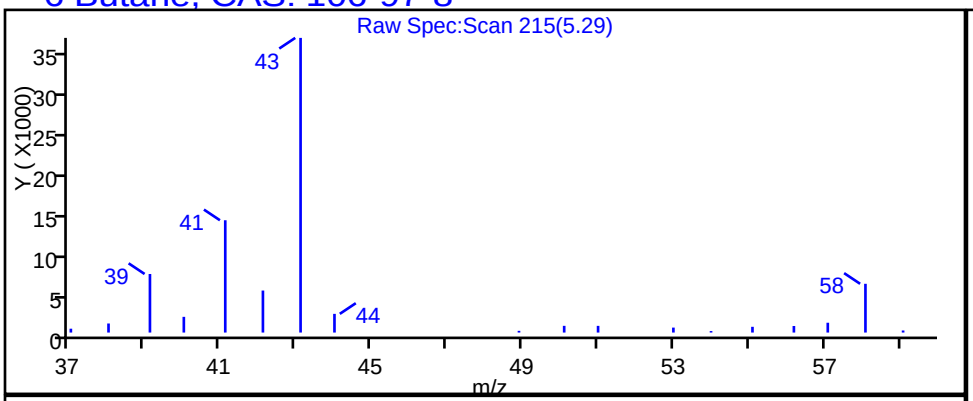
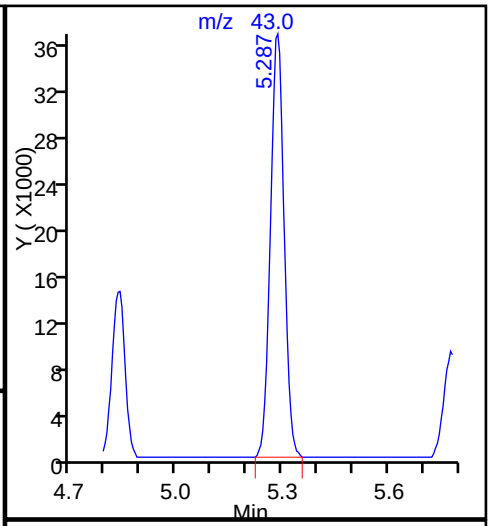
TestAmerica Burlington

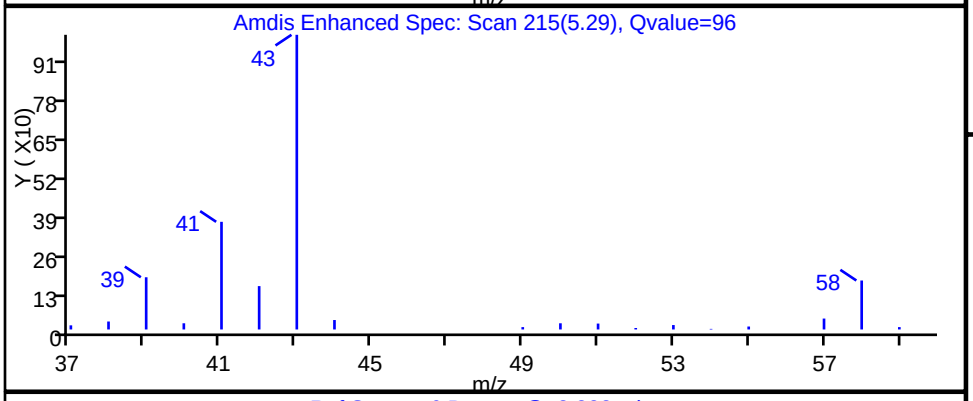
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

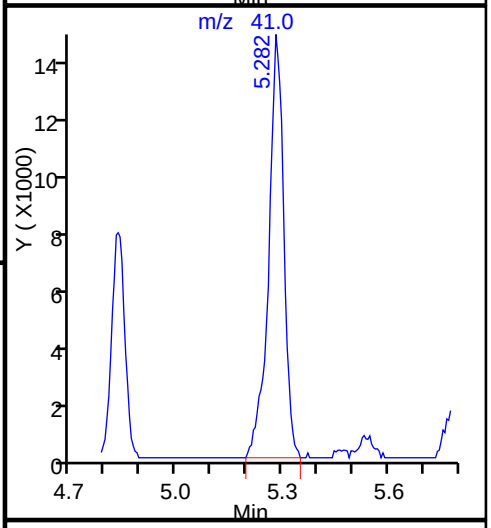
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

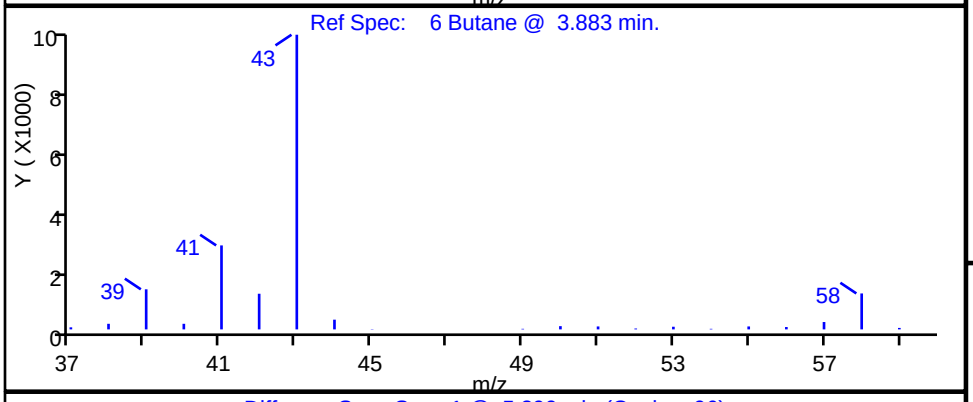
6 Butane, CAS: 106-97-8

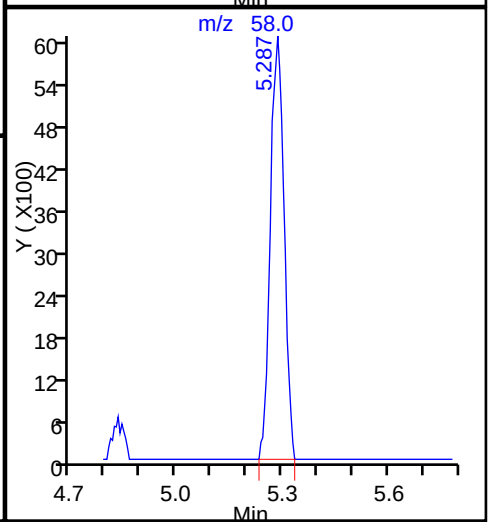


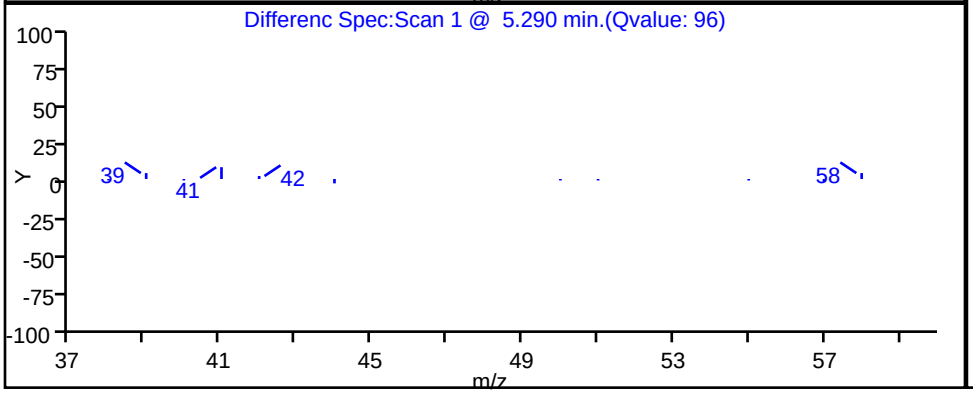












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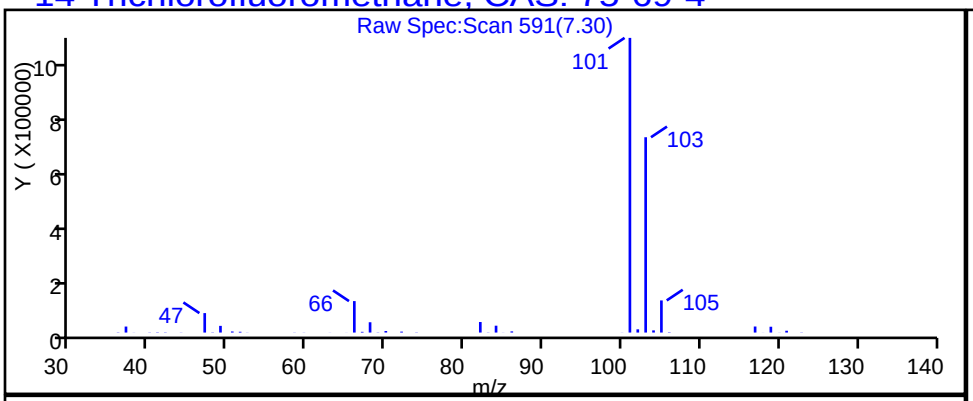
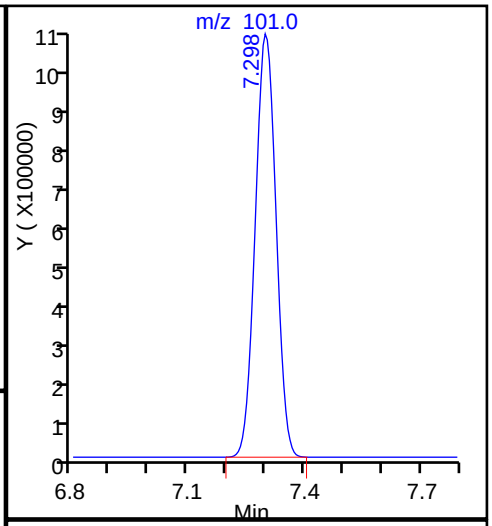
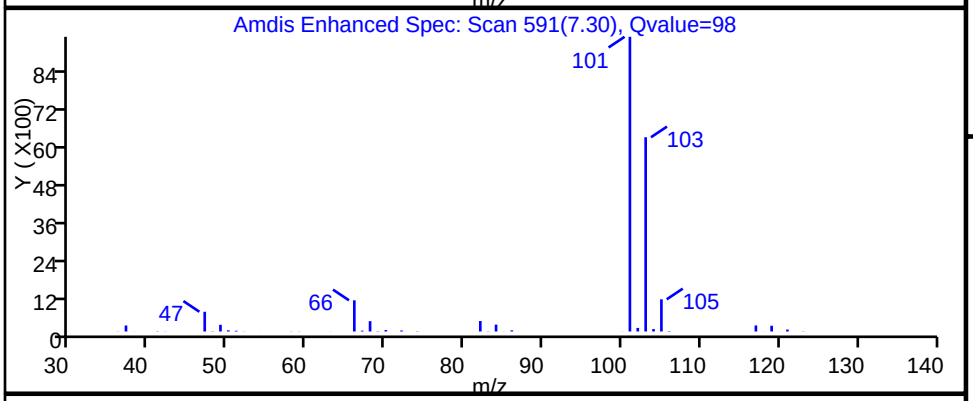
TestAmerica Burlington

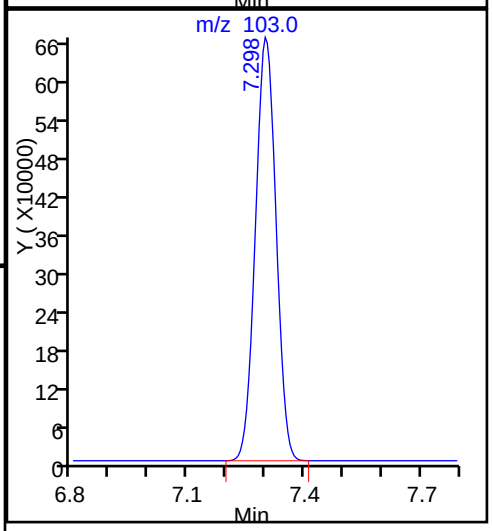
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

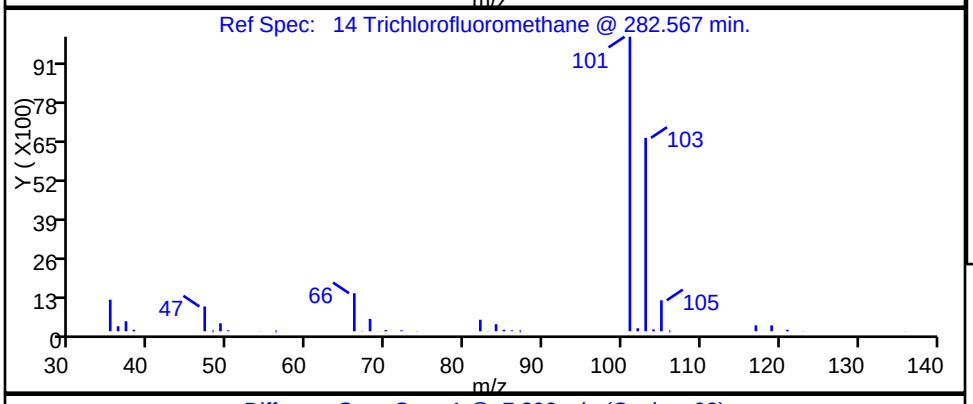
14 Trichlorofluoromethane, CAS: 75-69-4

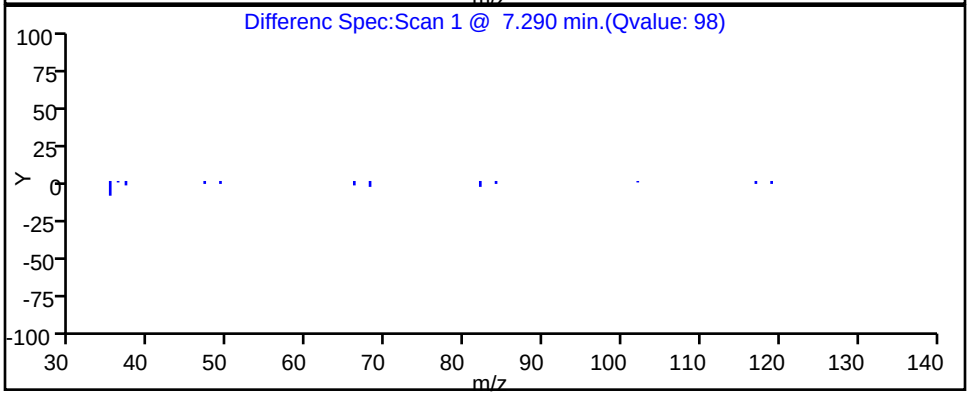












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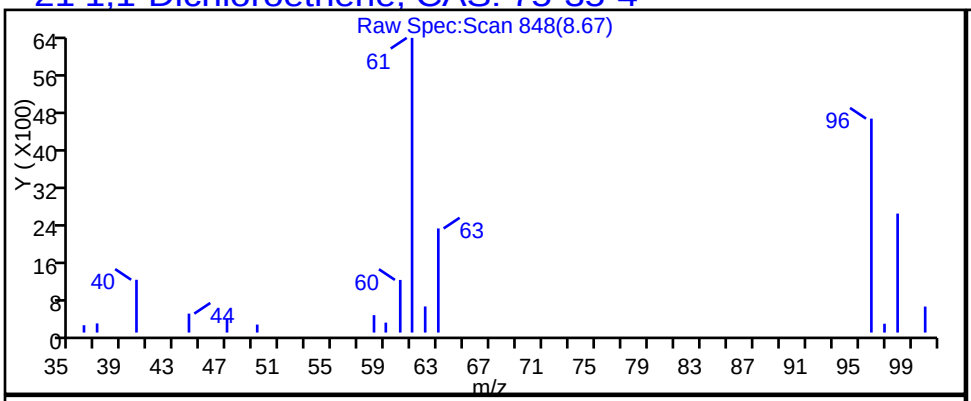
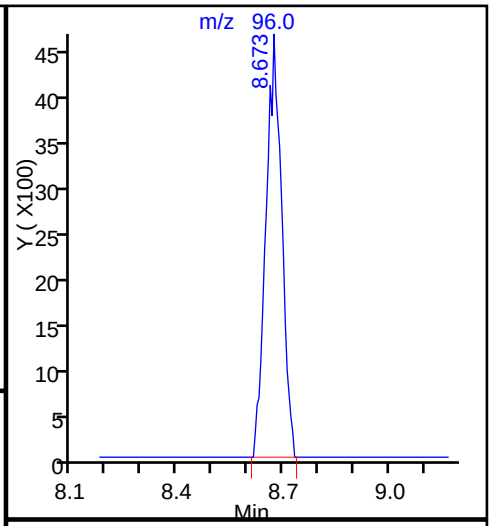
TestAmerica Burlington

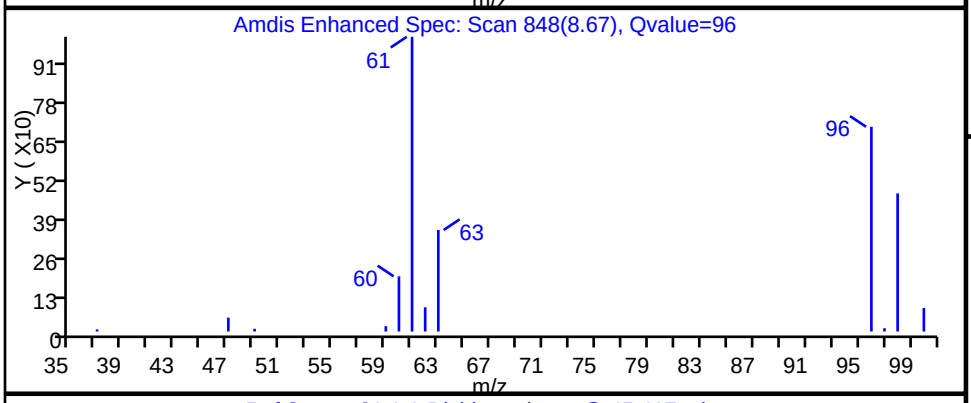
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

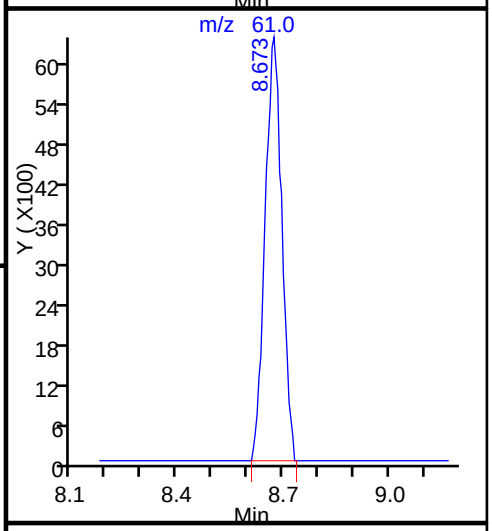
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

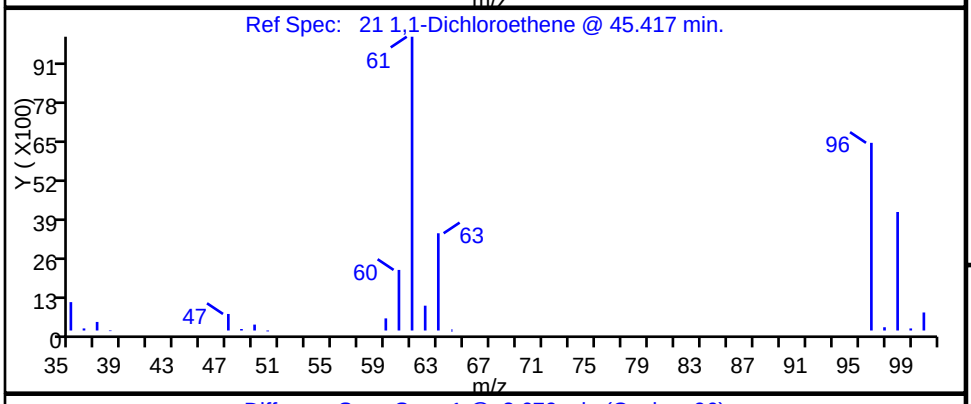
21 1,1-Dichloroethene, CAS: 75-35-4

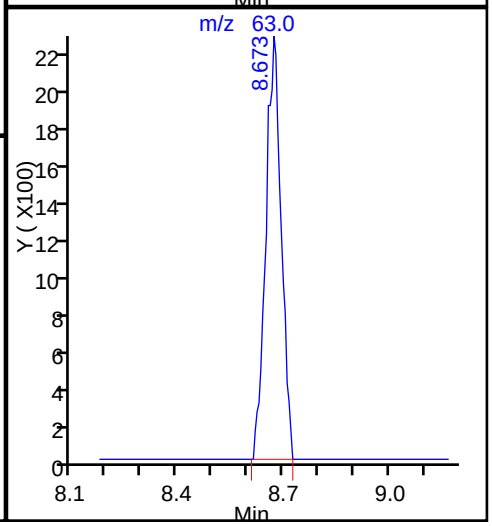


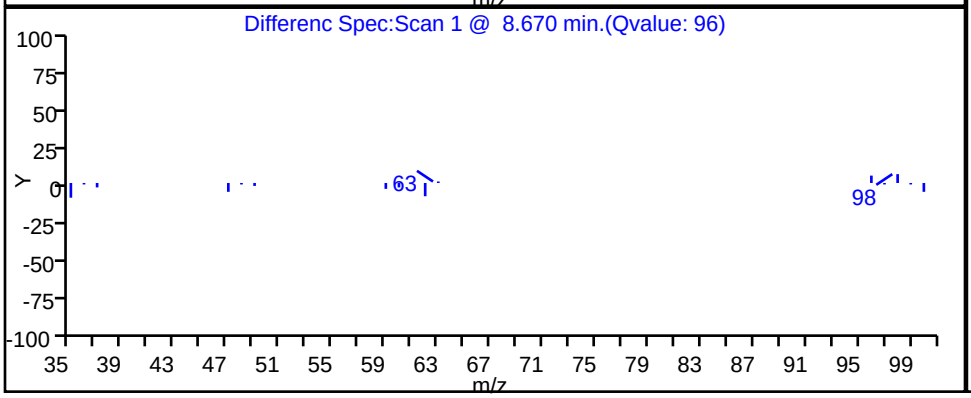












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TestAmerica Burlington

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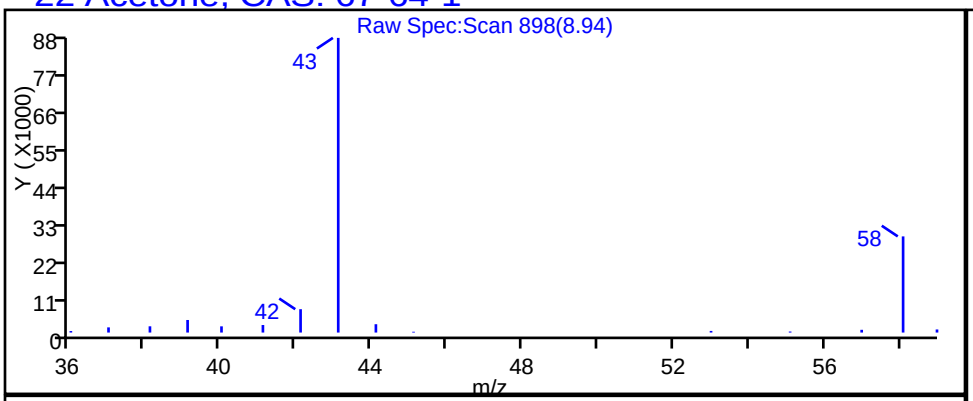
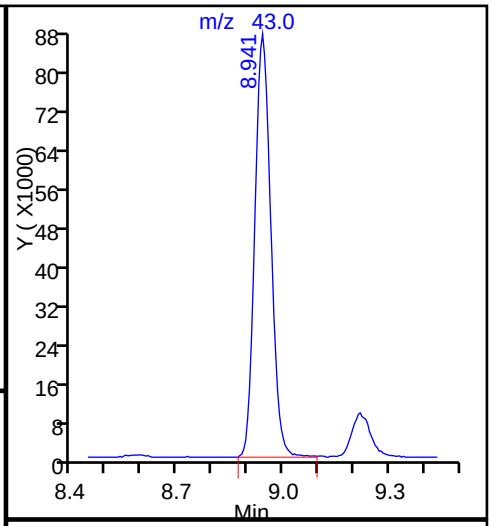
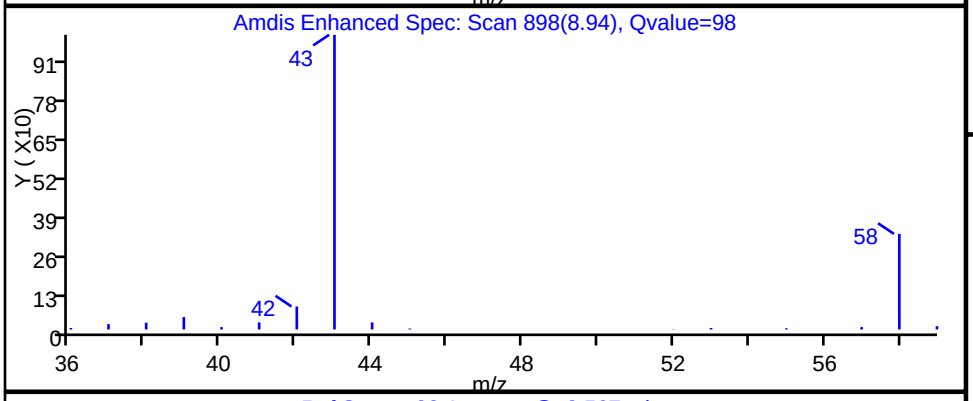
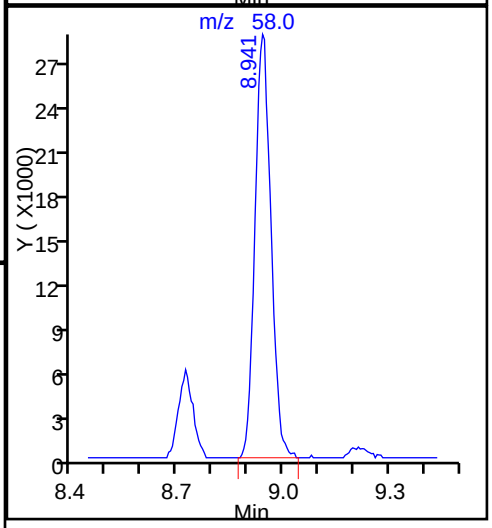
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

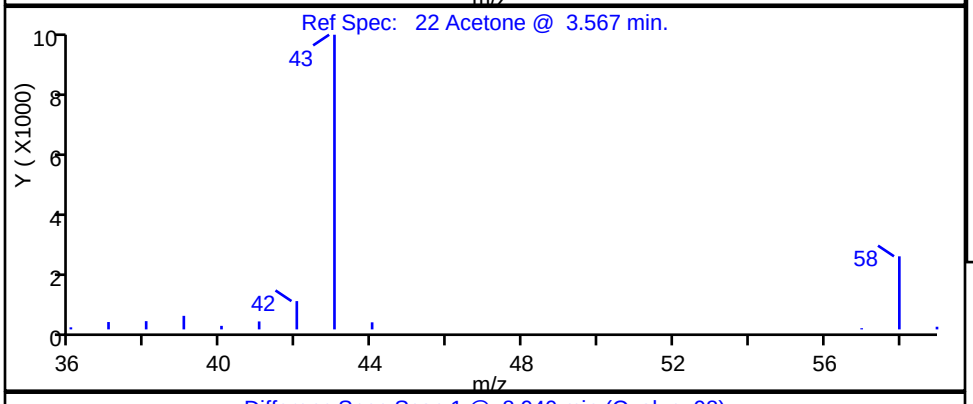
22 Acetone, CAS: 67-64-1

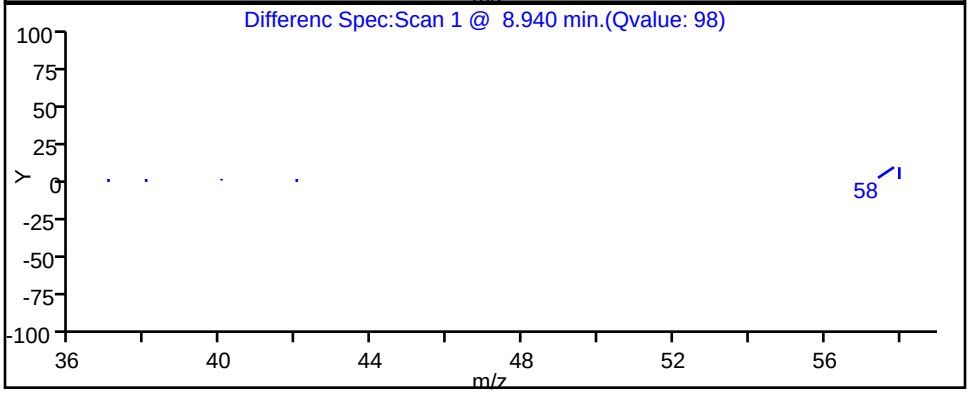












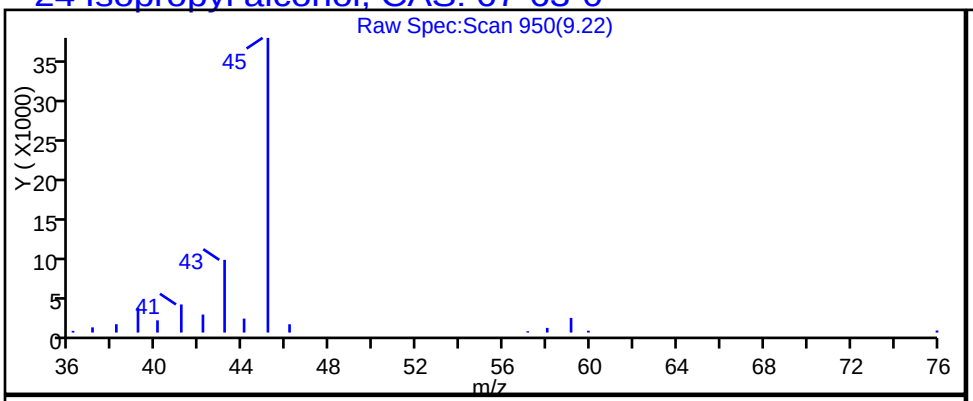
Report Date: 30-Sep-2015 14:18:13 Chrom Revision: 2.2 23-Jul-2015 08:26:08

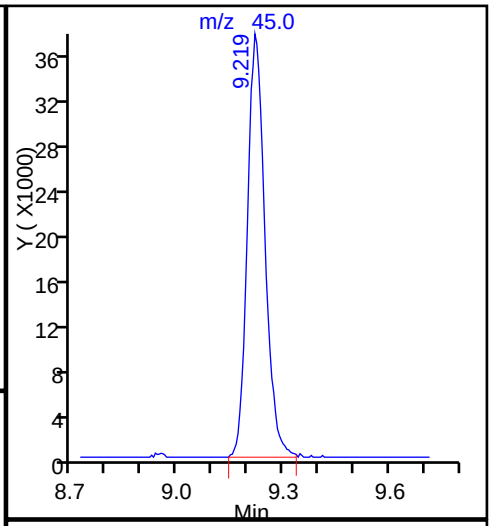
TestAmerica Burlington

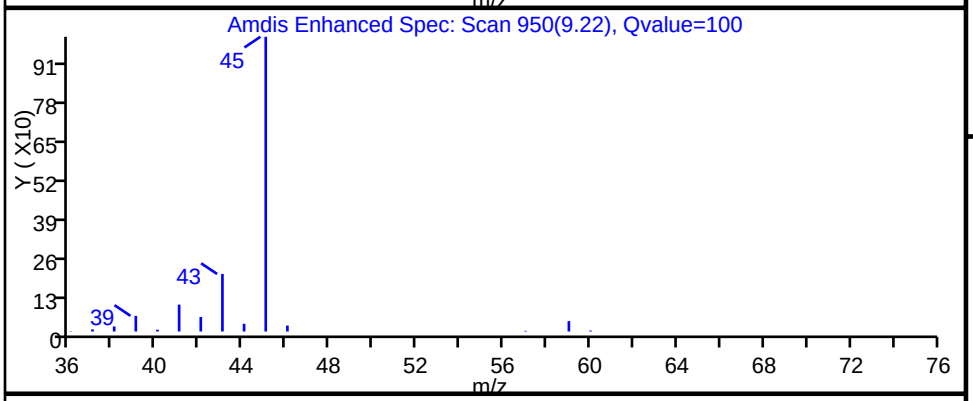
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

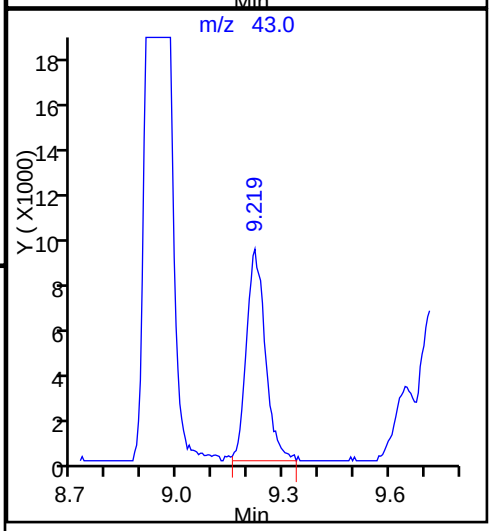
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

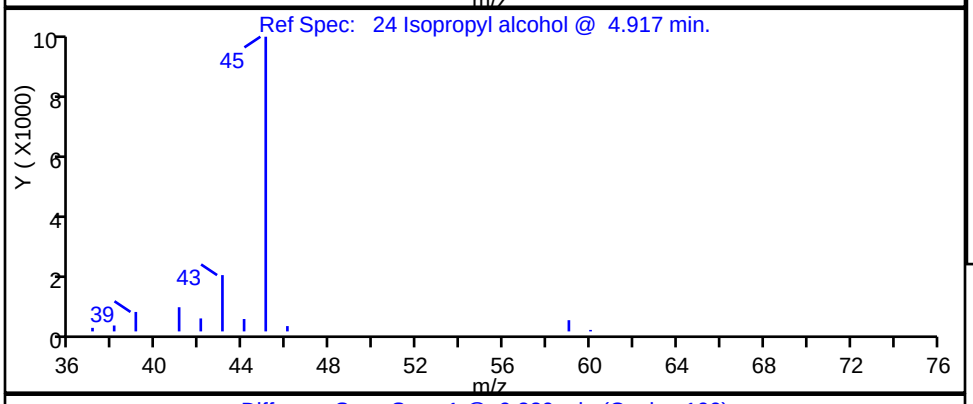
24 Isopropyl alcohol, CAS: 67-63-0

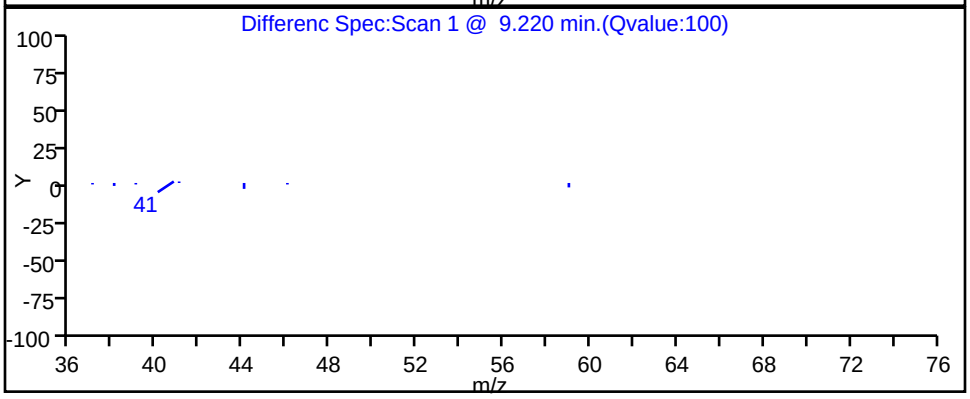












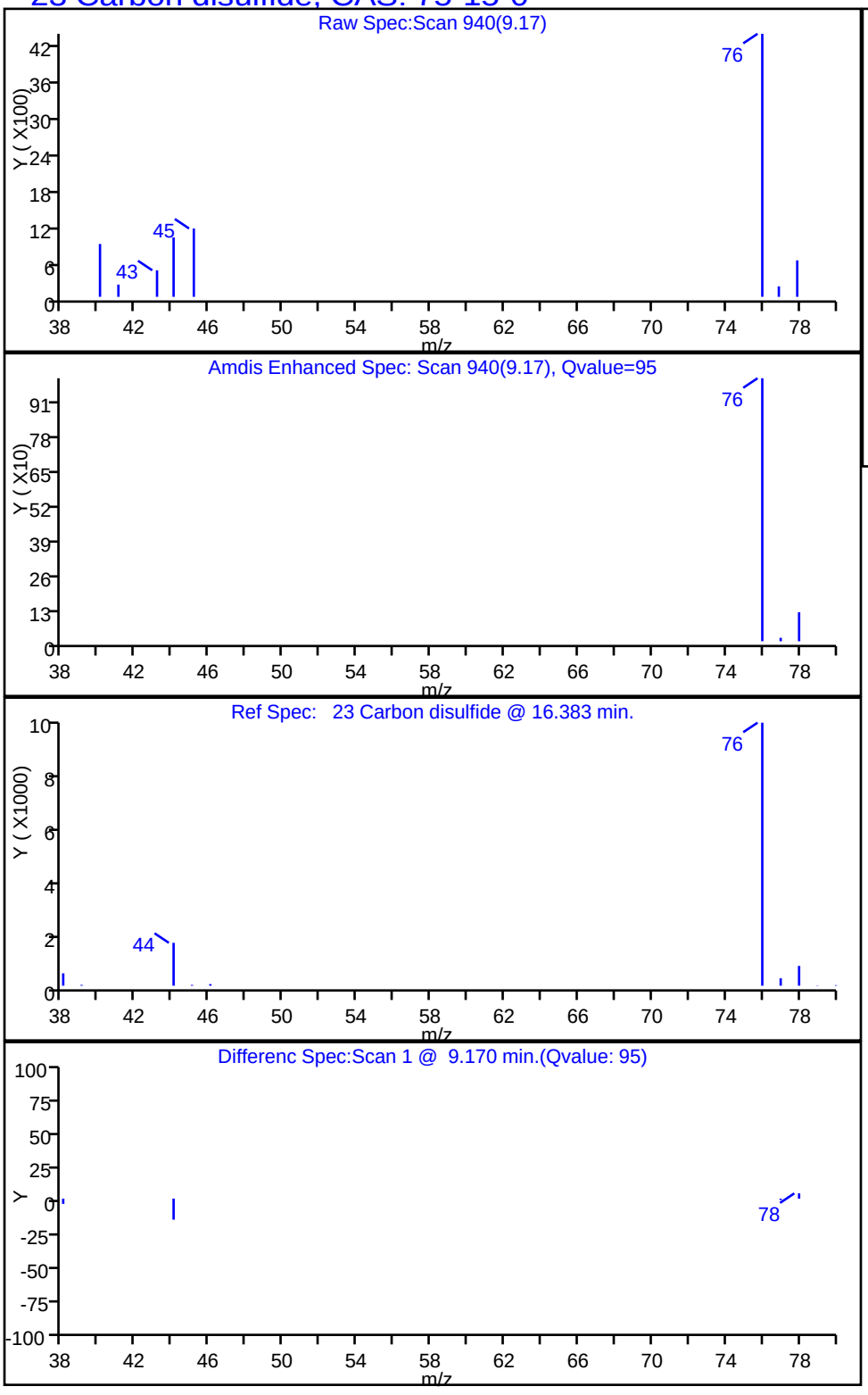
Report Date: 30-Sep-2015 14:18:13 Chrom Revision: 2.2 23-Jul-2015 08:26:08

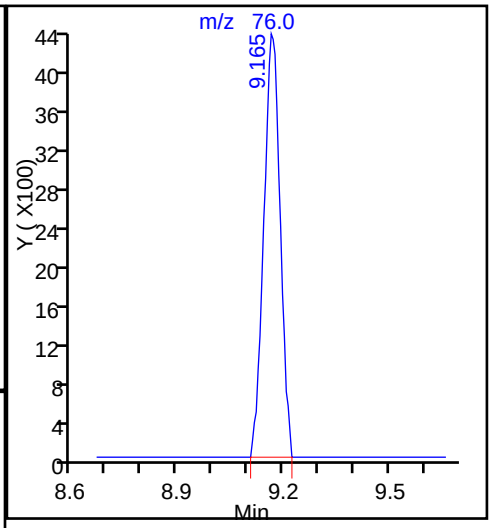
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





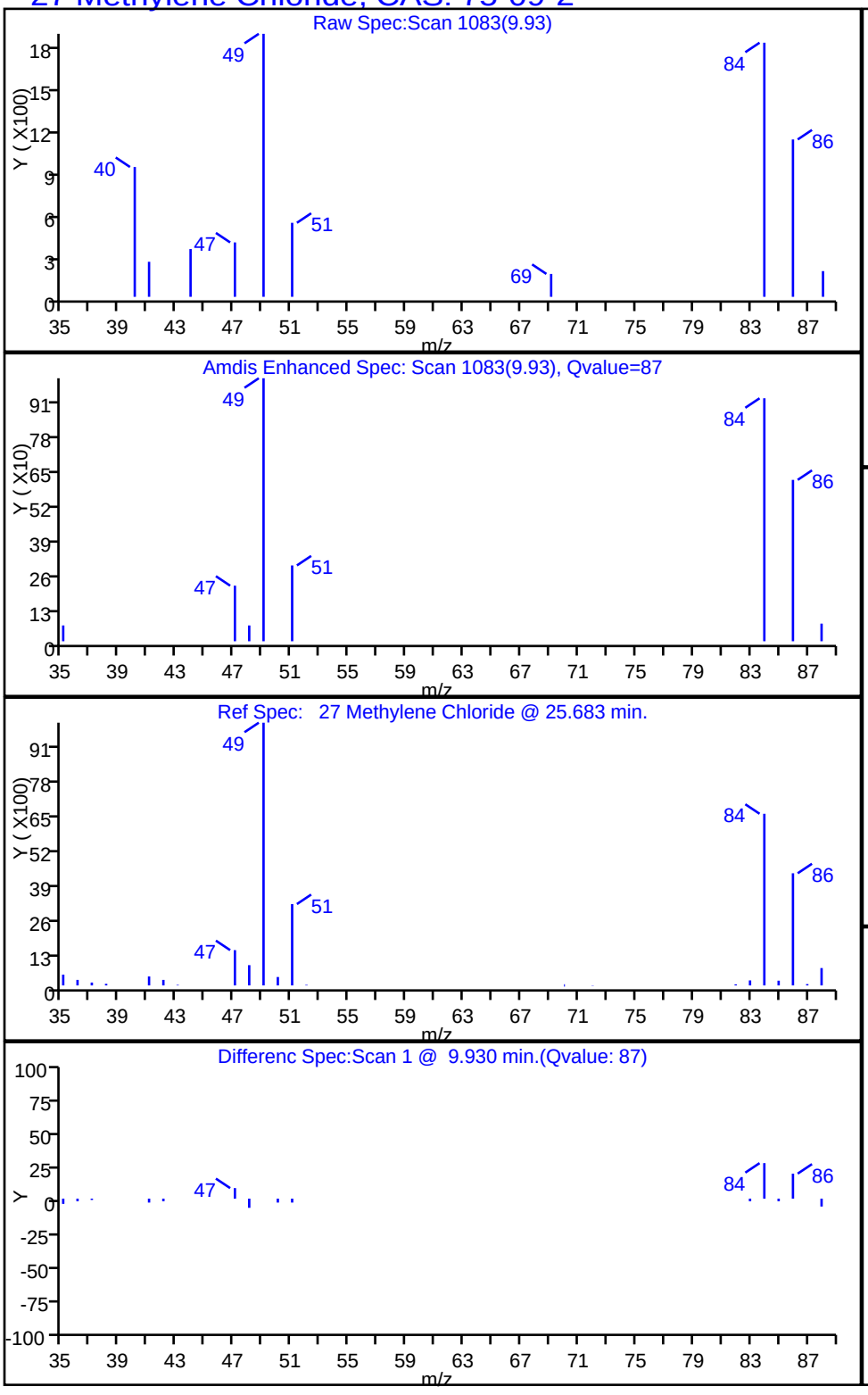
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

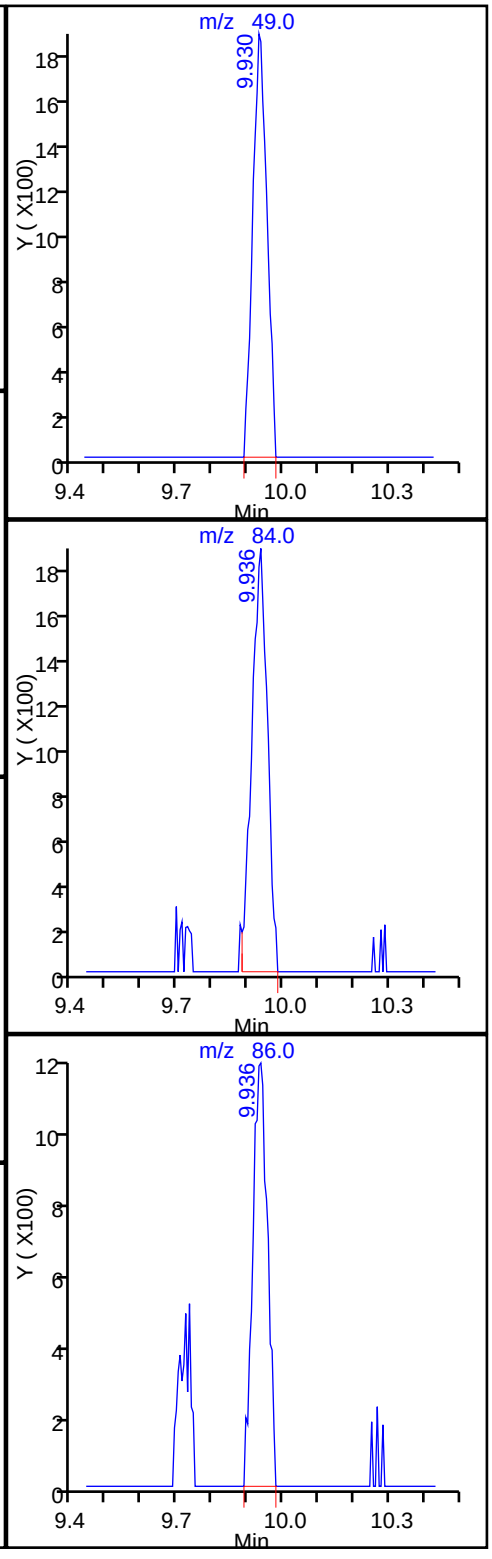
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2





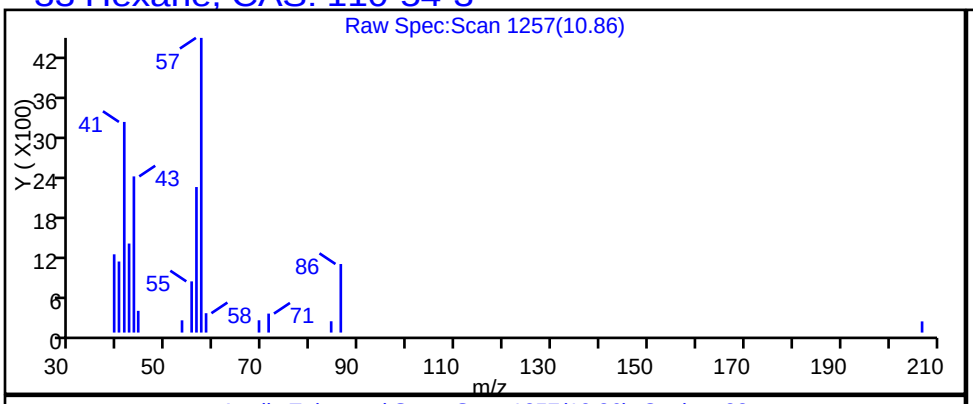
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

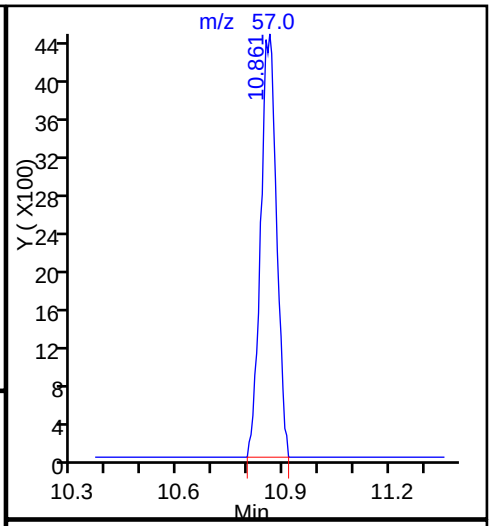
TestAmerica Burlington

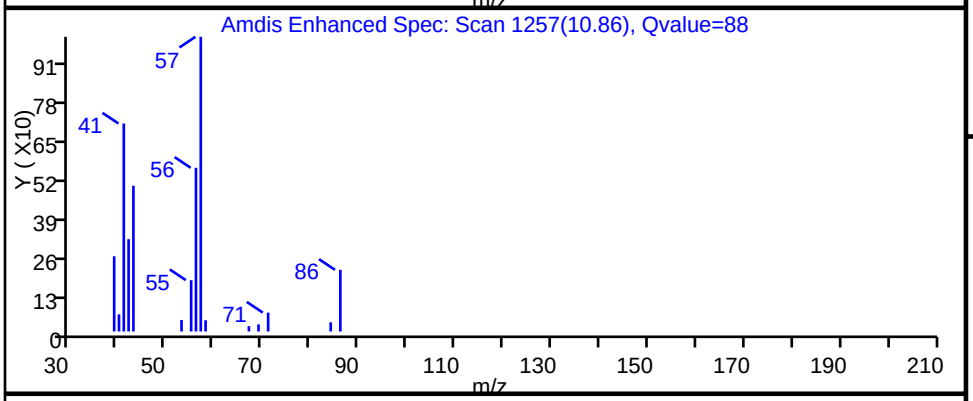
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

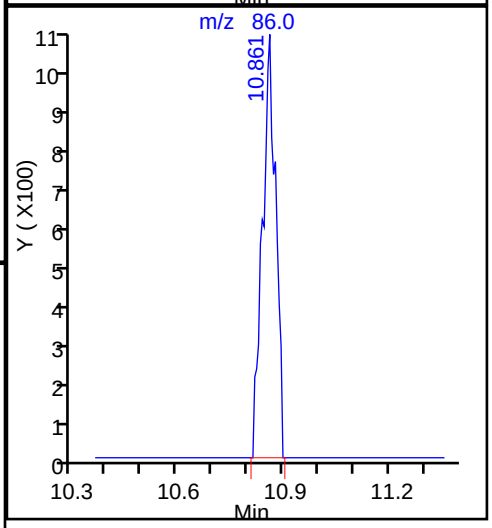
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

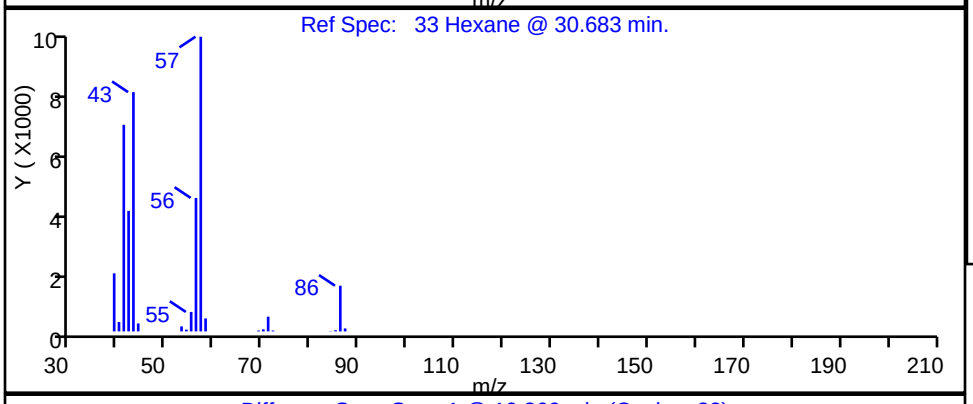
33 Hexane, CAS: 110-54-3

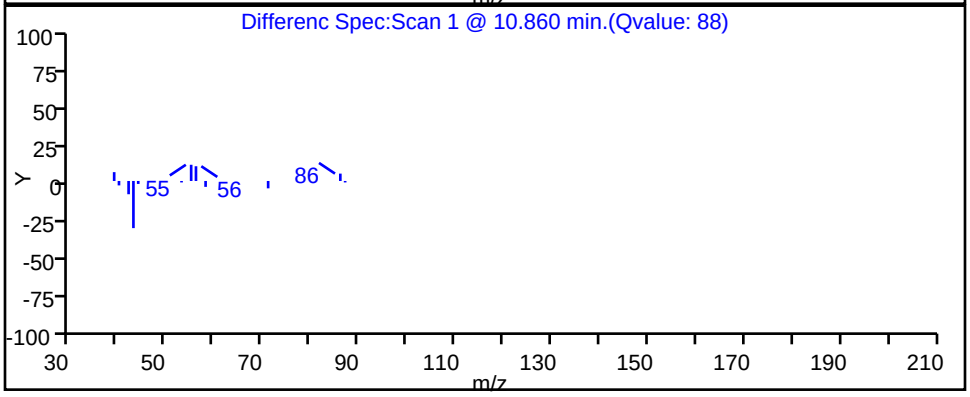












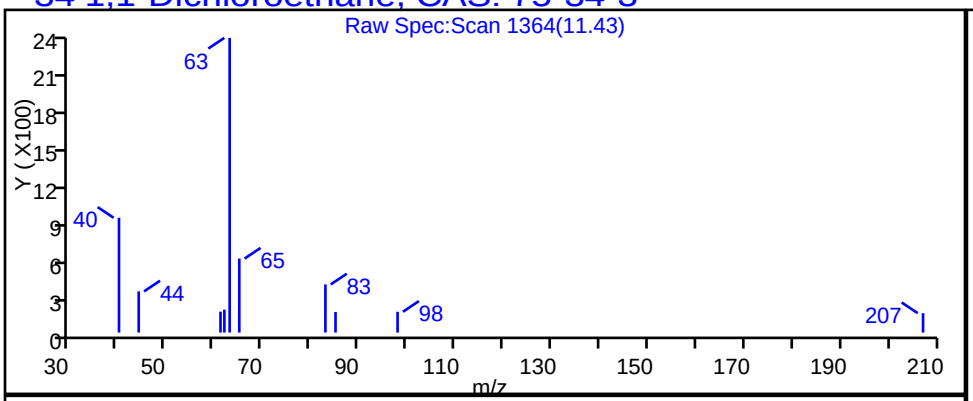
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

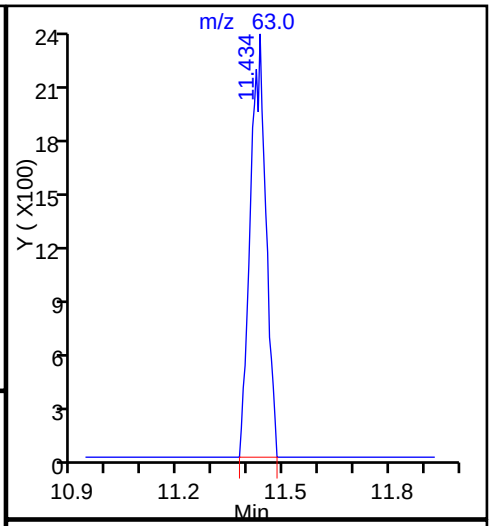
TestAmerica Burlington

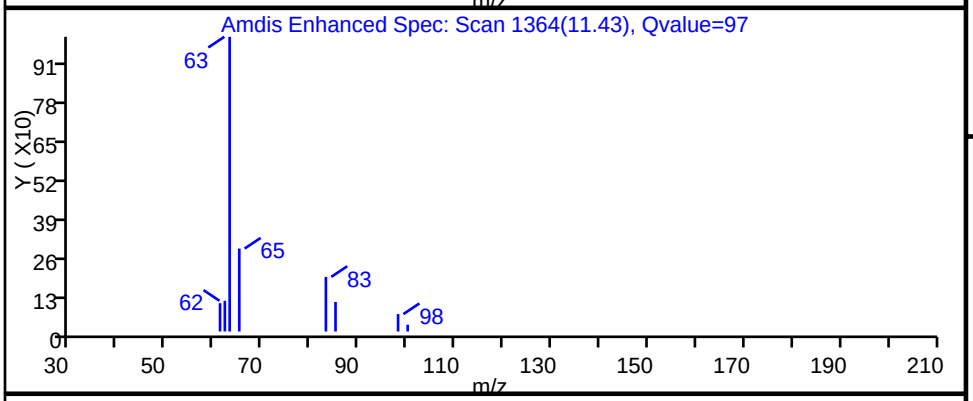
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

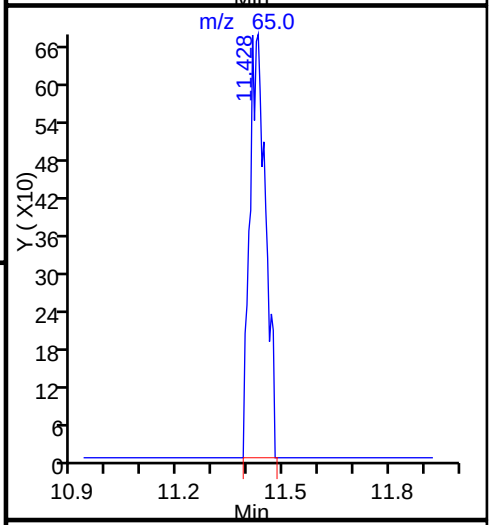
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

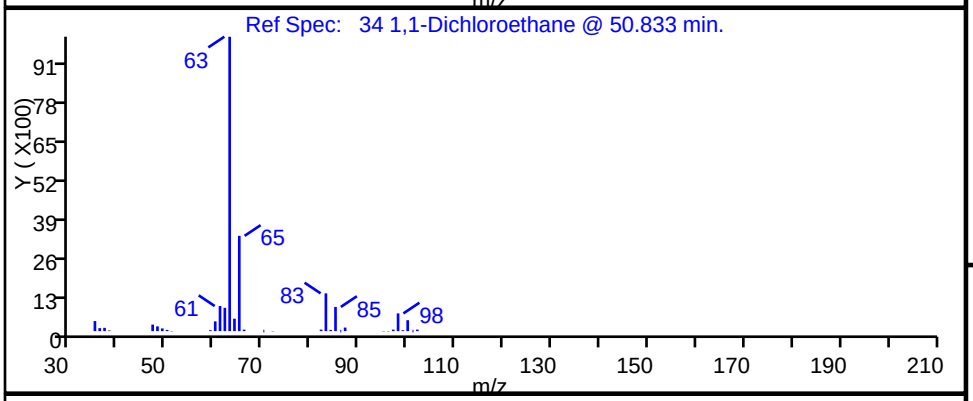
34 1,1-Dichloroethane, CAS: 75-34-3

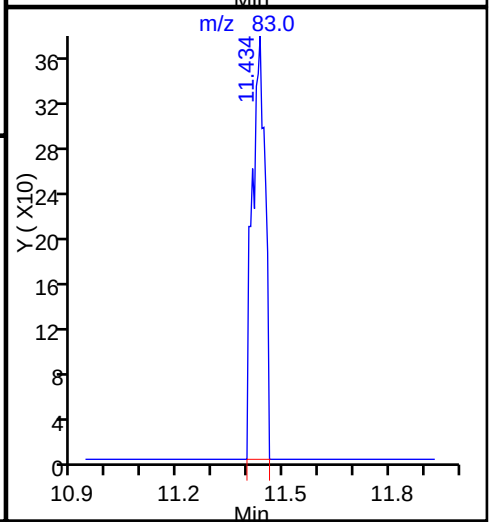


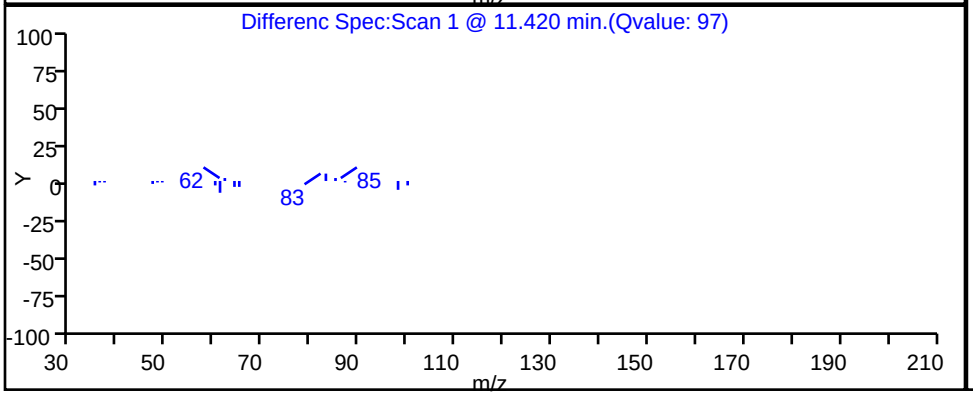












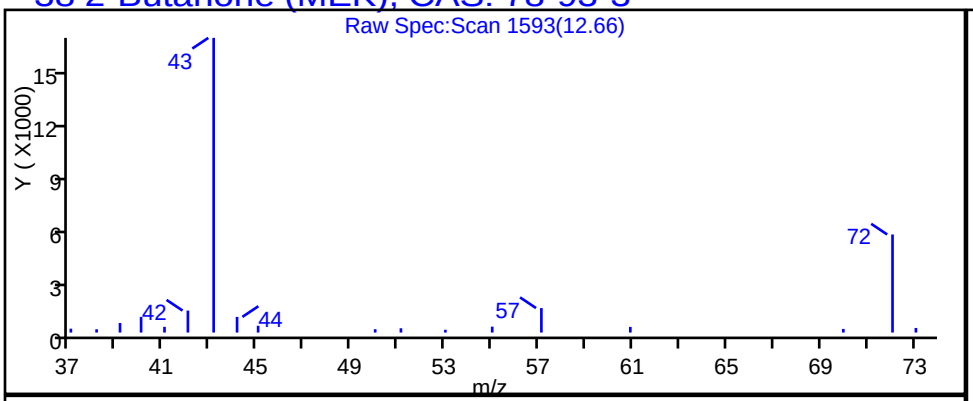
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

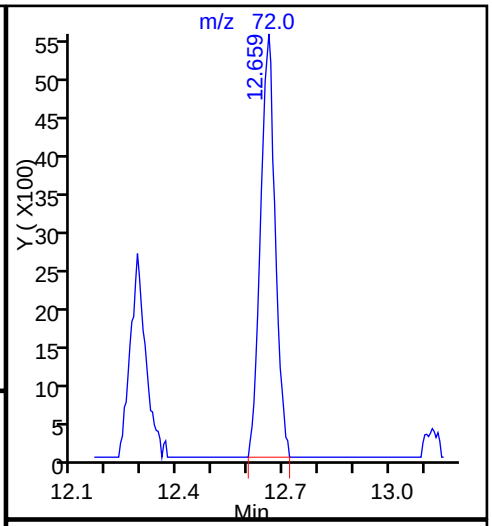
TestAmerica Burlington

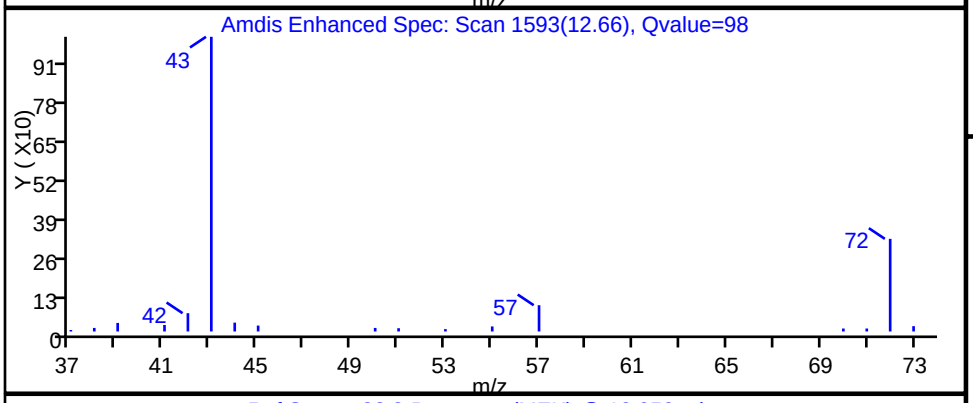
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

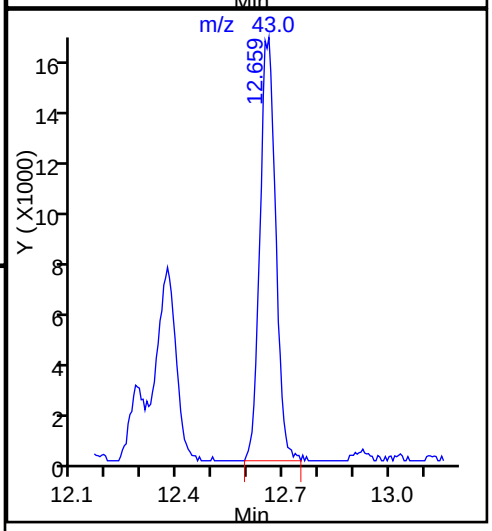
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

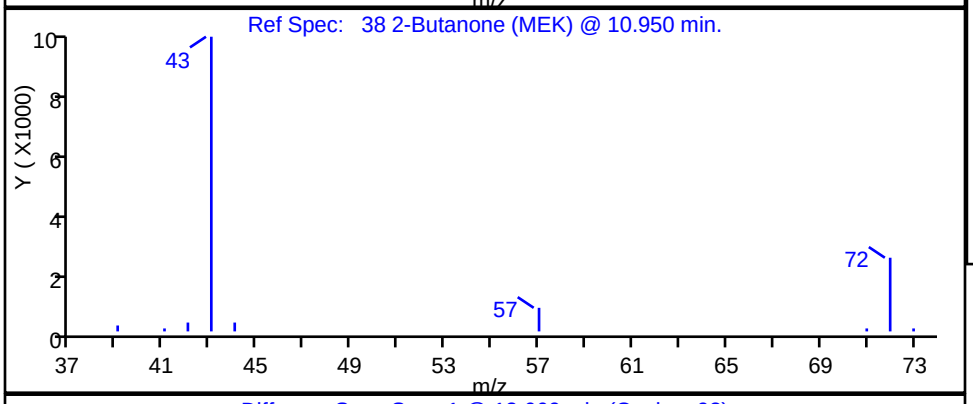
38 2-Butanone (MEK), CAS: 78-93-3

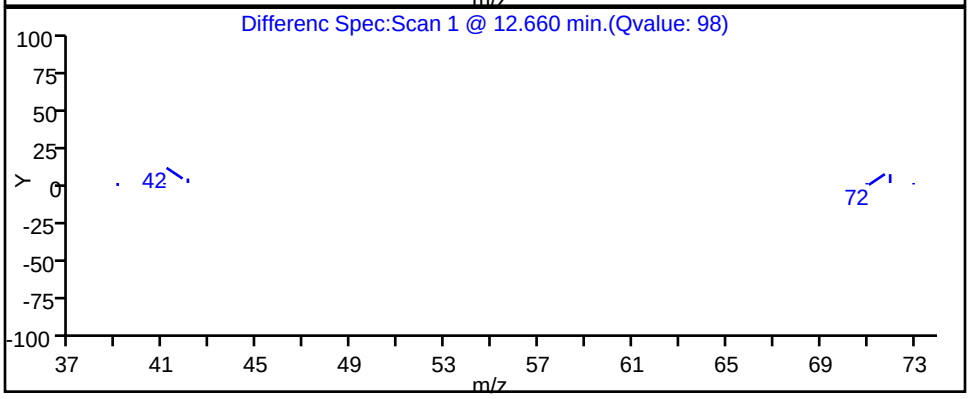










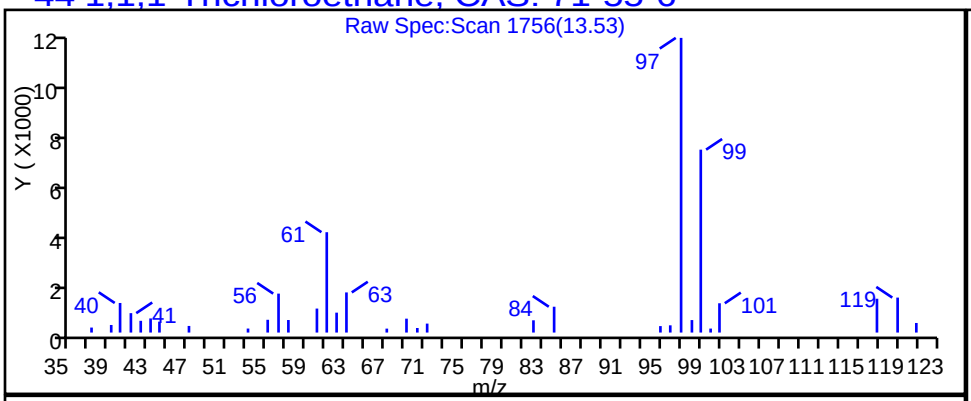


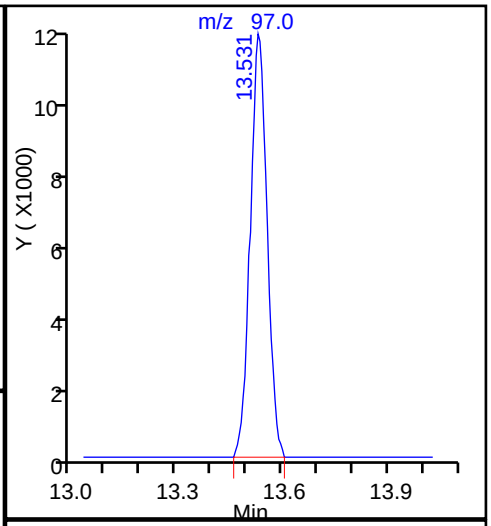
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

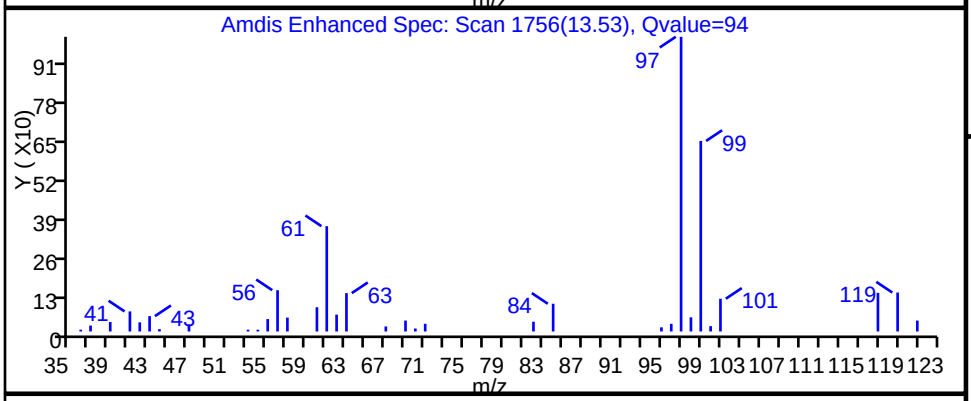
TestAmerica Burlington

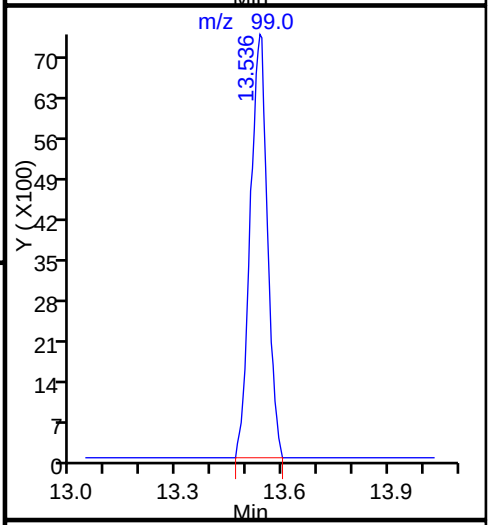
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

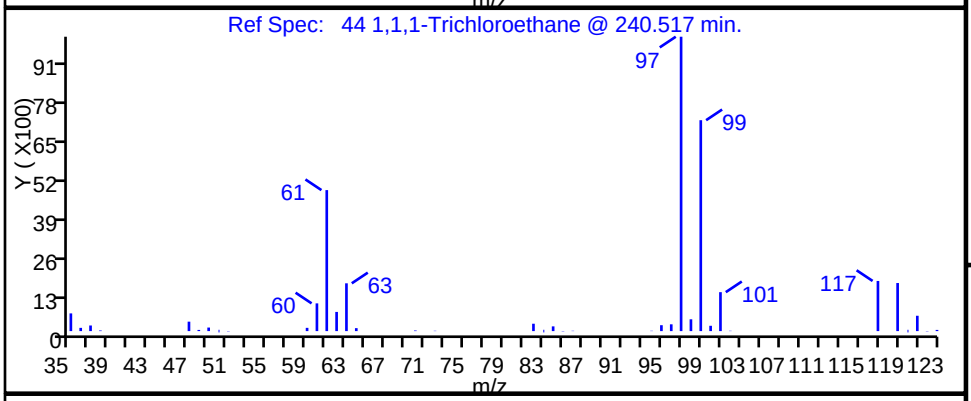
44 1,1,1-Trichloroethane, CAS: 71-55-6

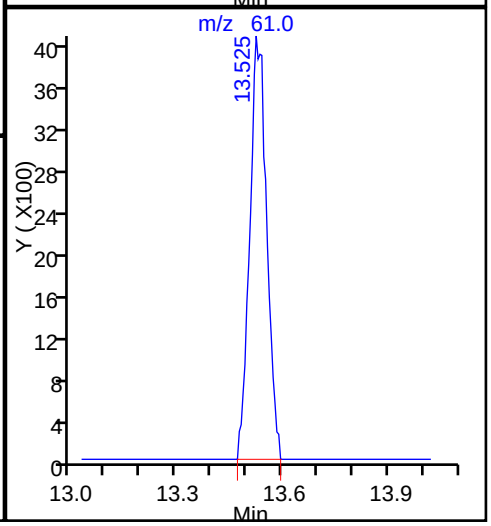


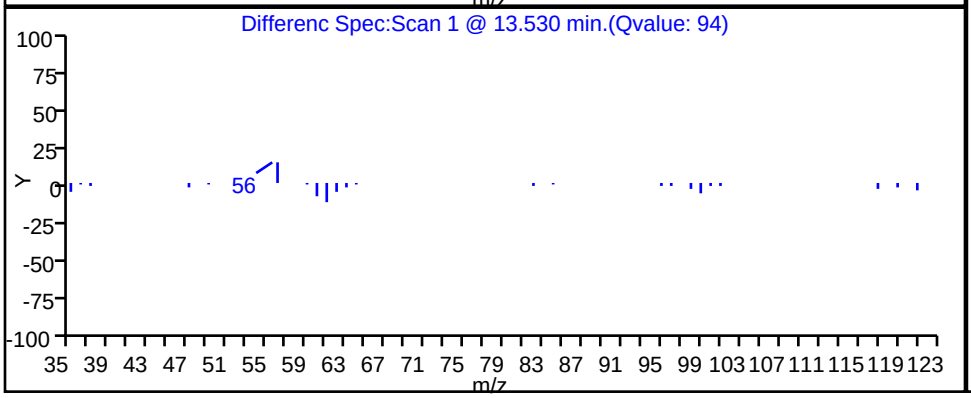










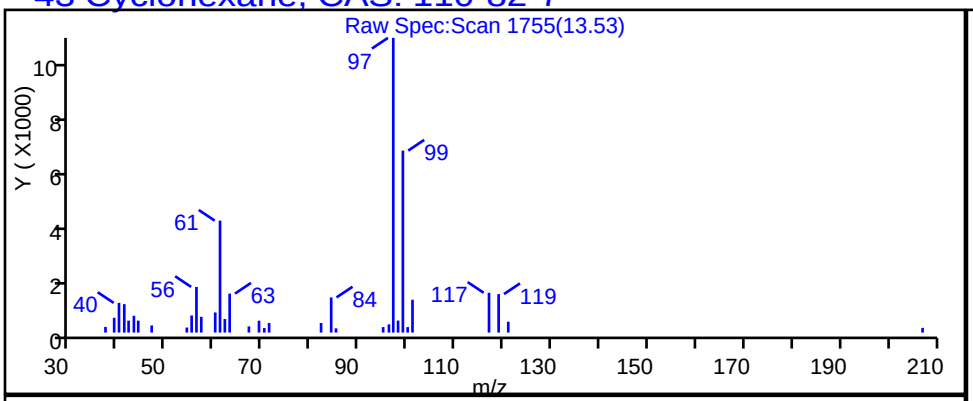


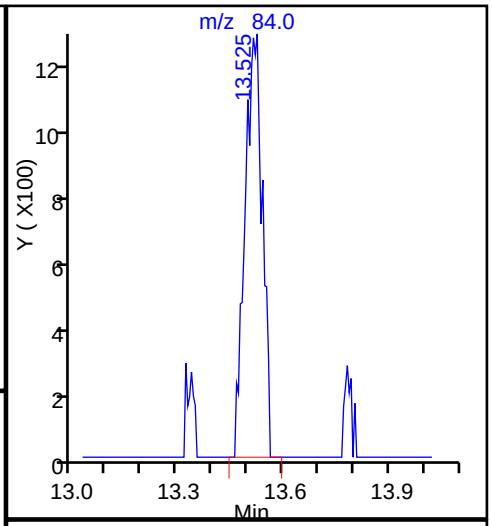
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

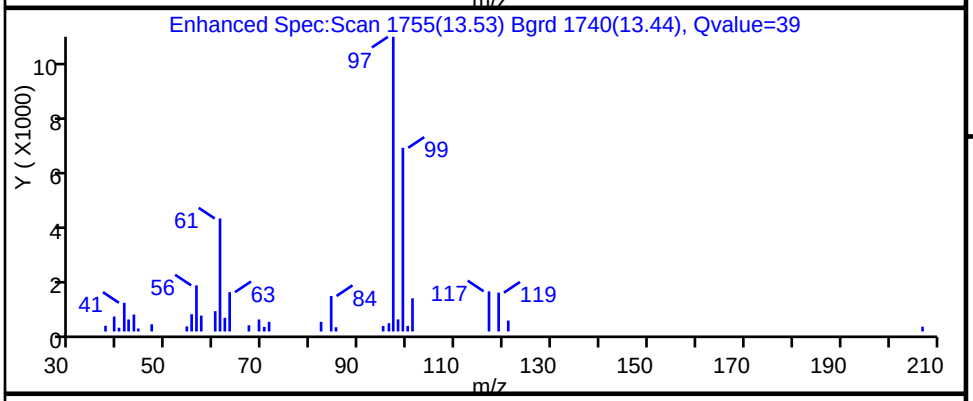
TestAmerica Burlington

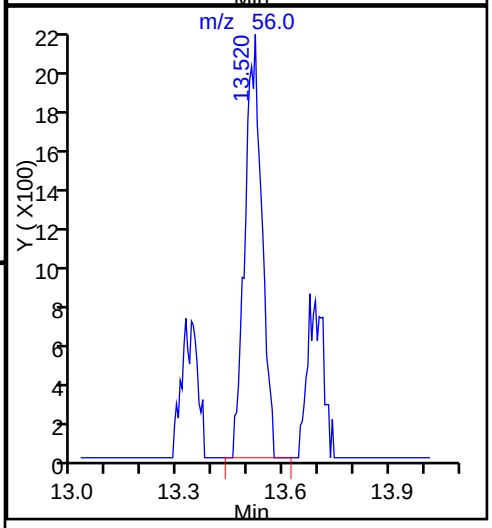
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

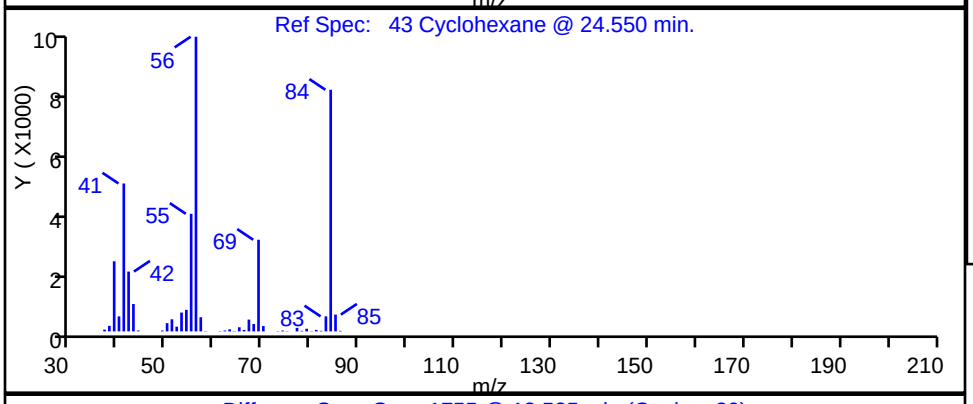
43 Cyclohexane, CAS: 110-82-7

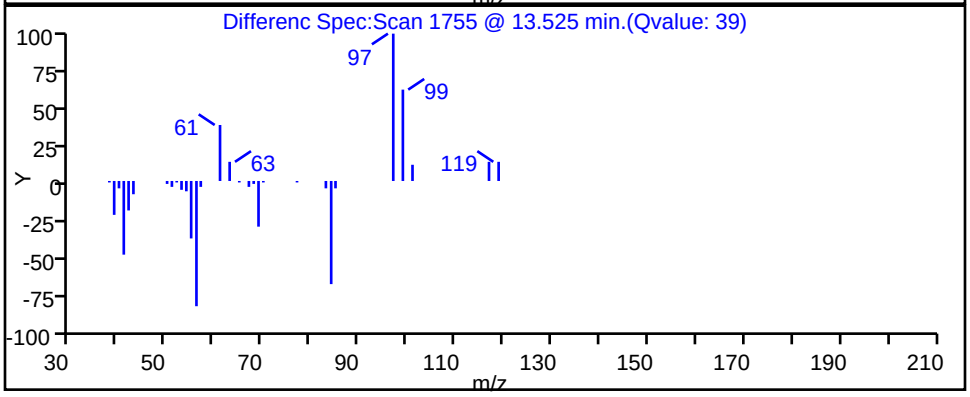












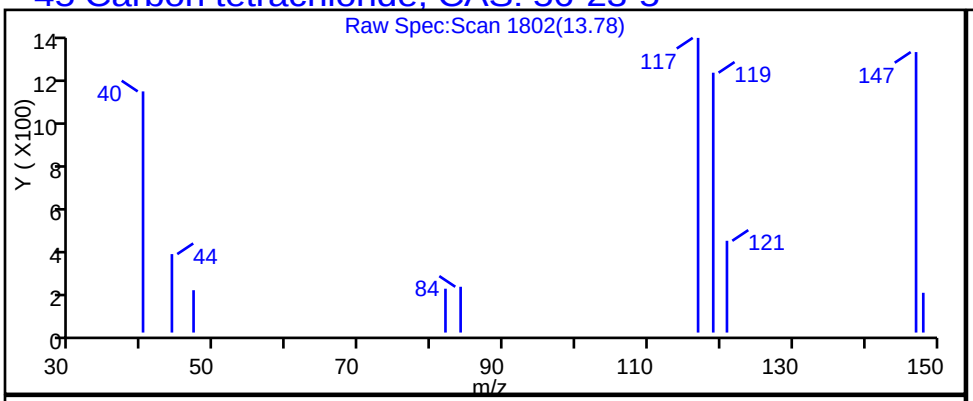
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

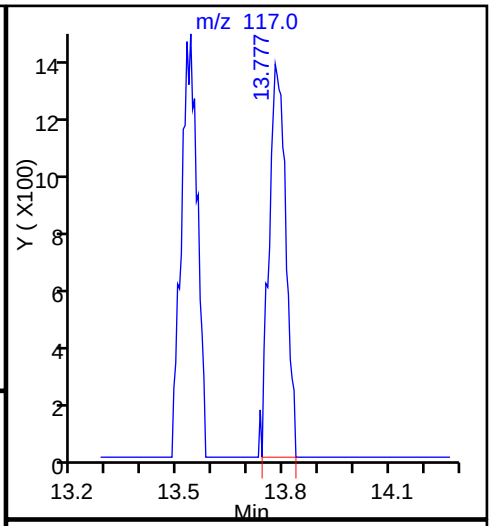
TestAmerica Burlington

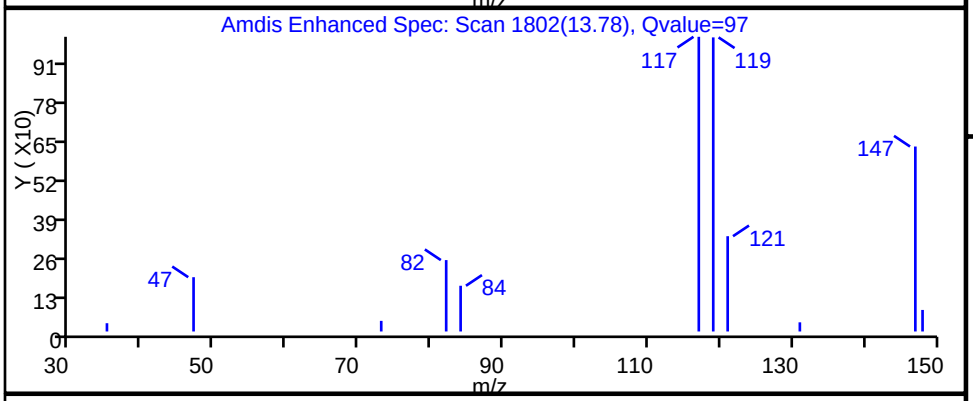
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

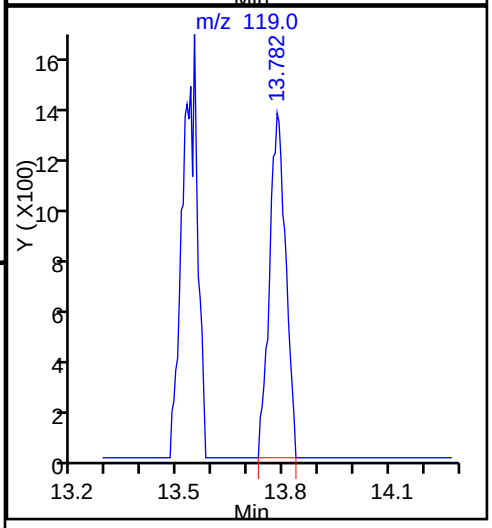
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

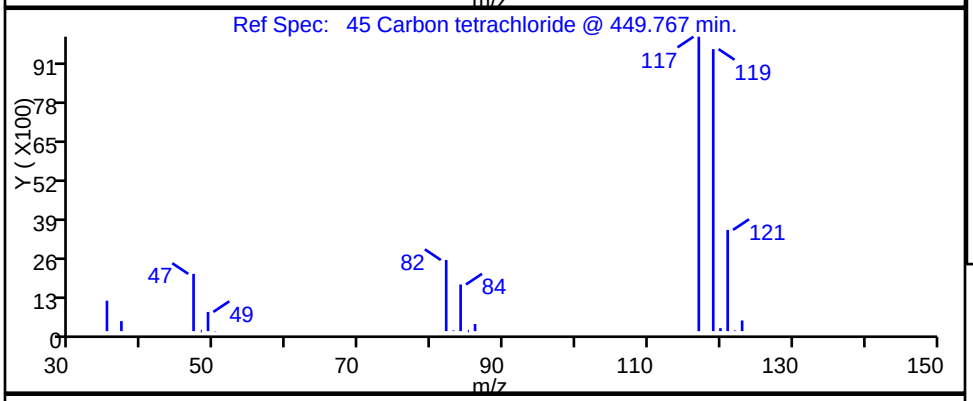
45 Carbon tetrachloride, CAS: 56-23-5

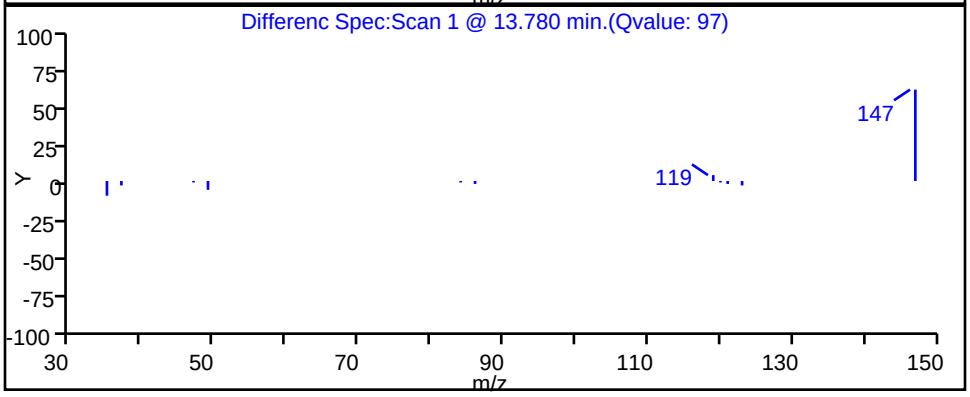










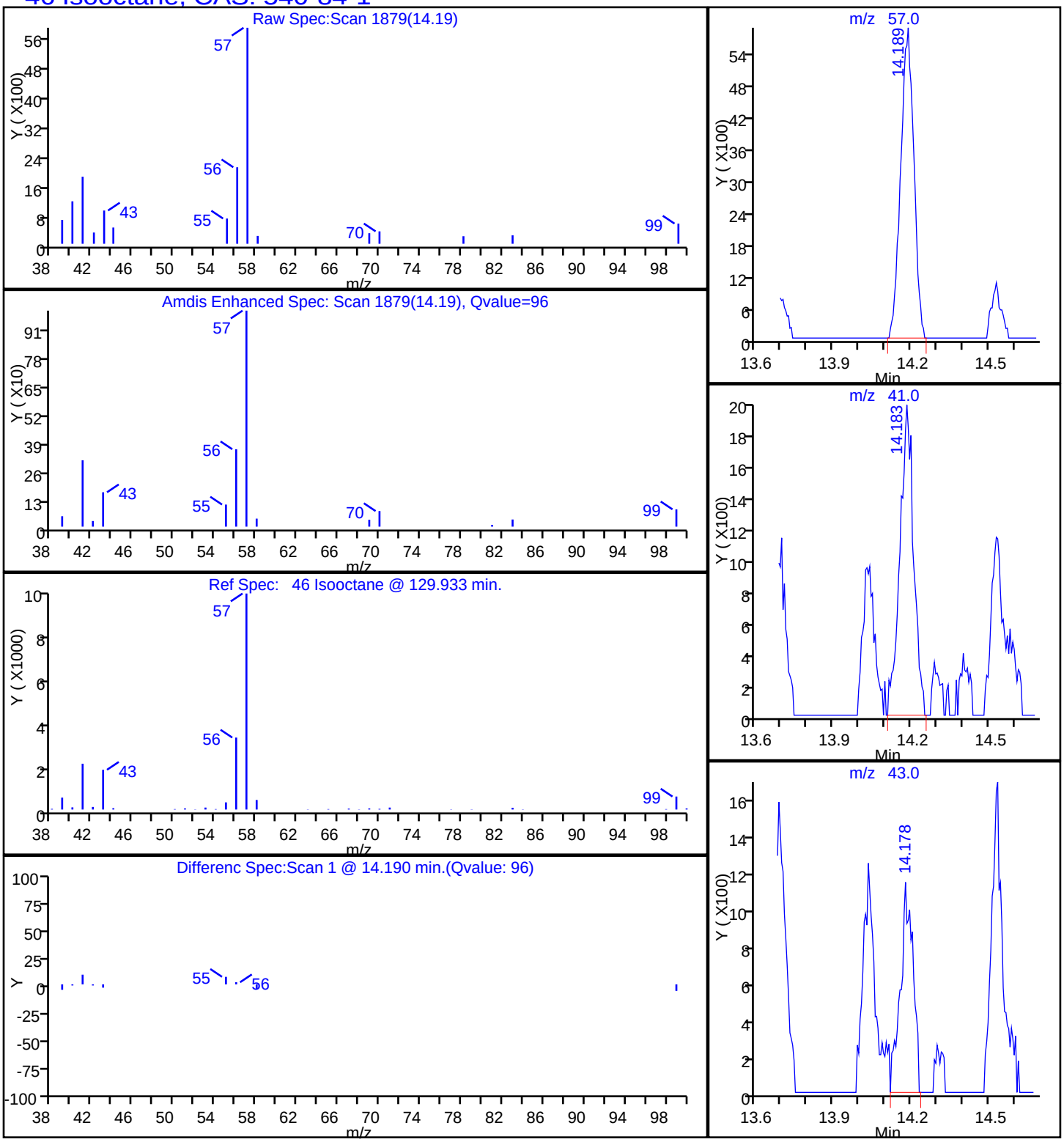


Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1



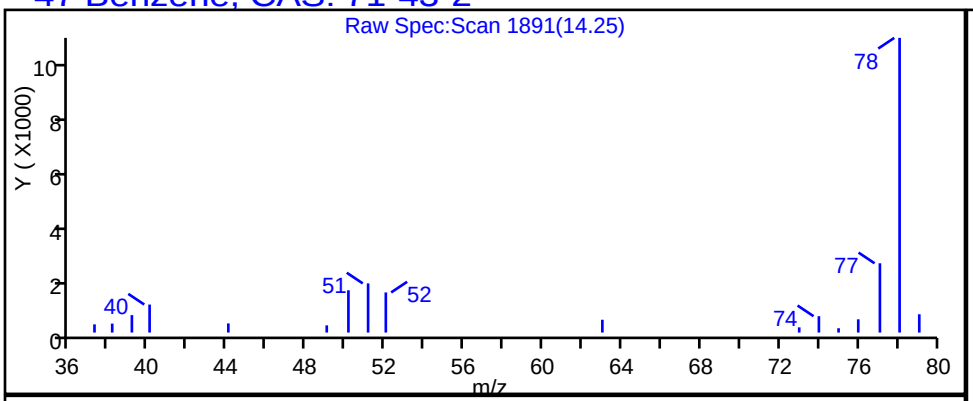
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

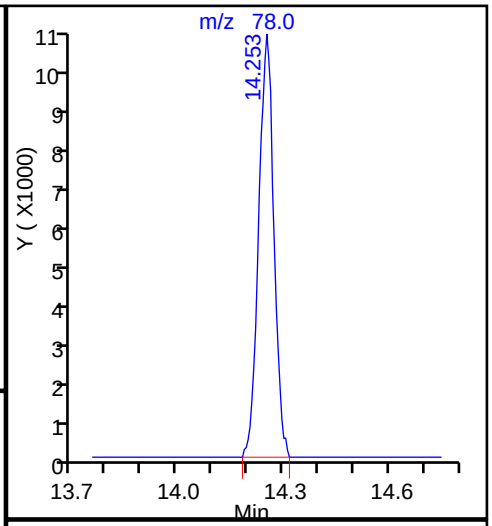
TestAmerica Burlington

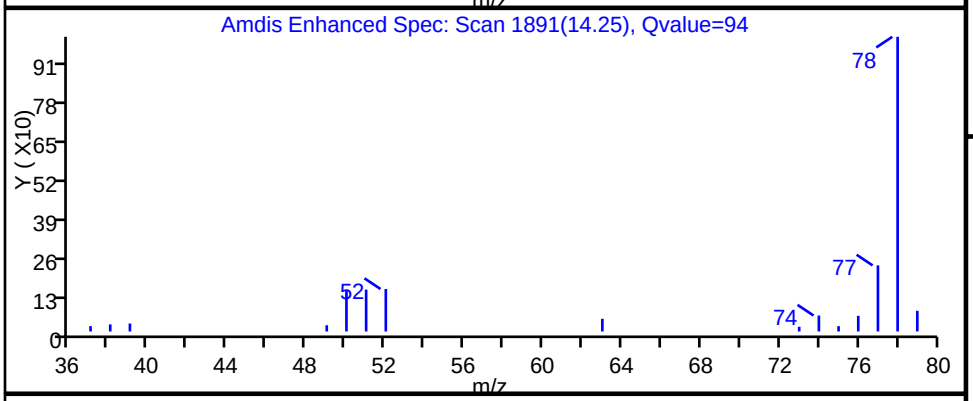
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

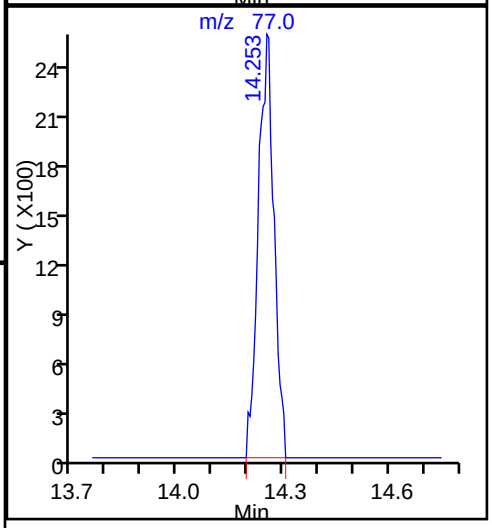
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

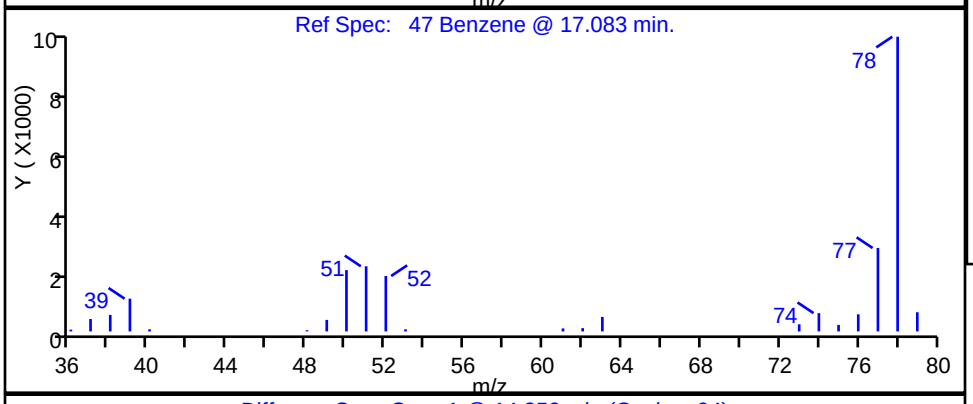
47 Benzene, CAS: 71-43-2

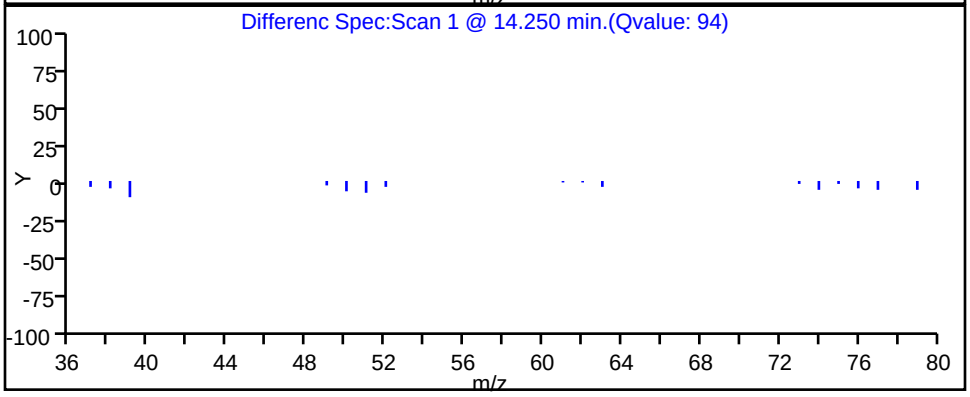












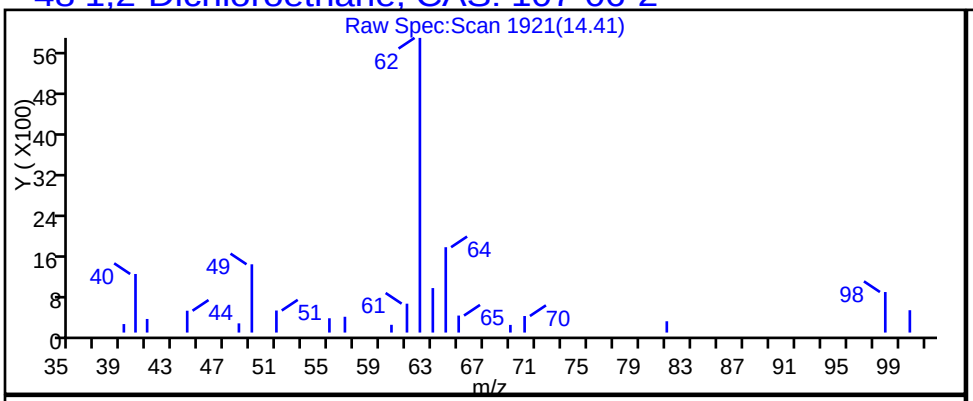
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

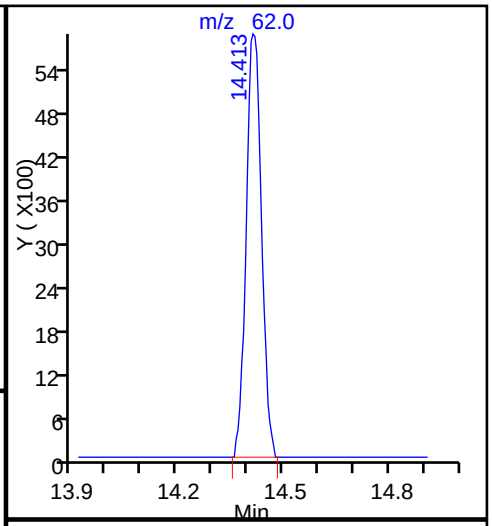
TestAmerica Burlington

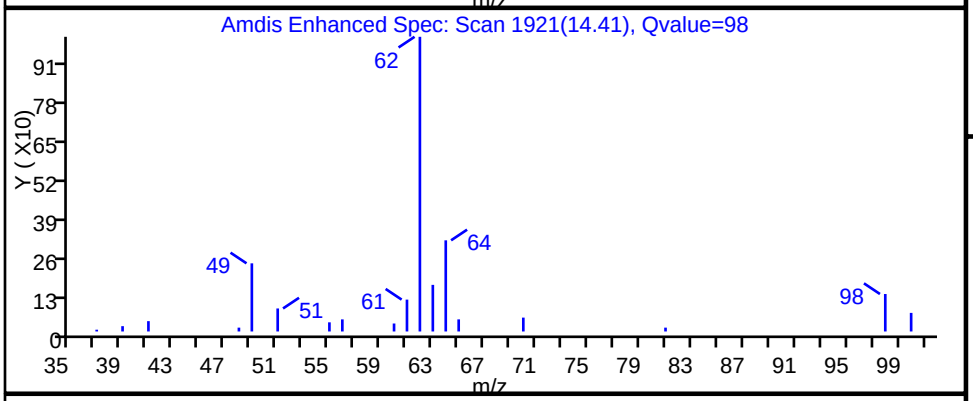
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

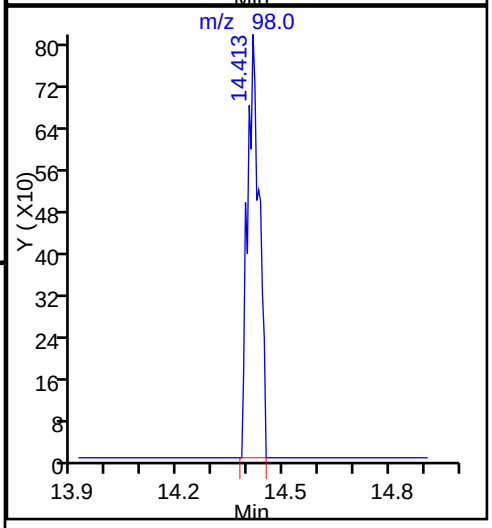
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

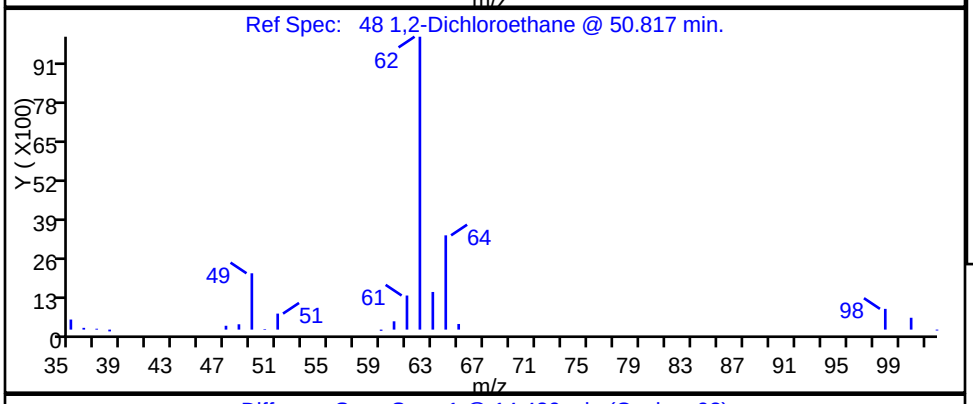
48 1,2-Dichloroethane, CAS: 107-06-2

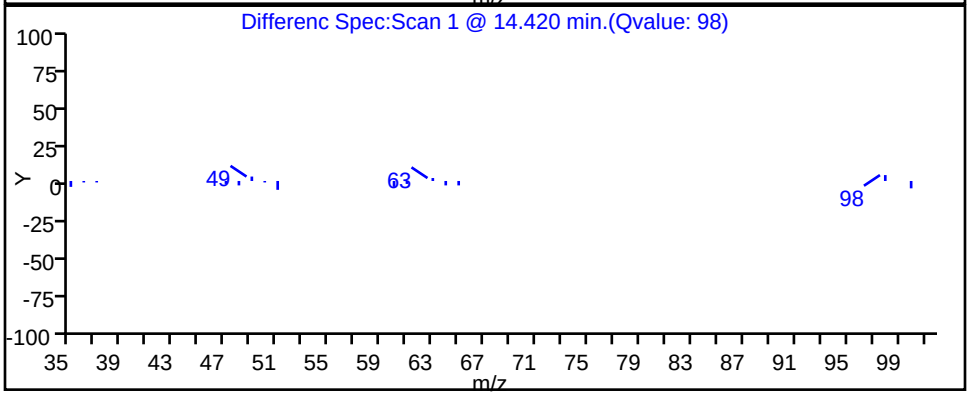












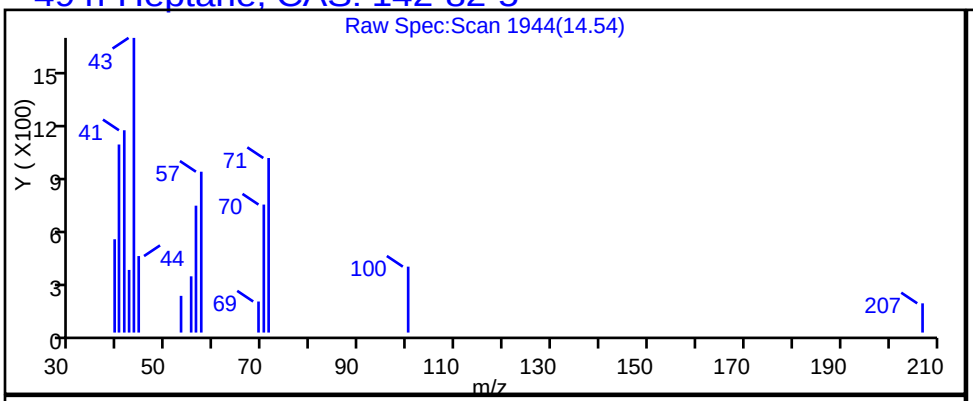
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

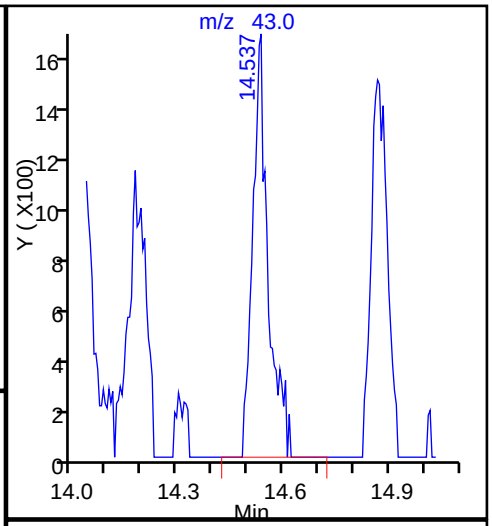
TestAmerica Burlington

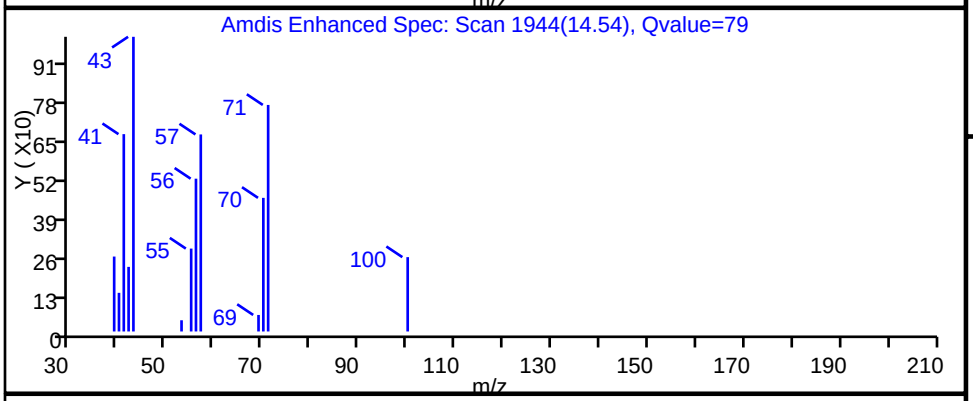
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

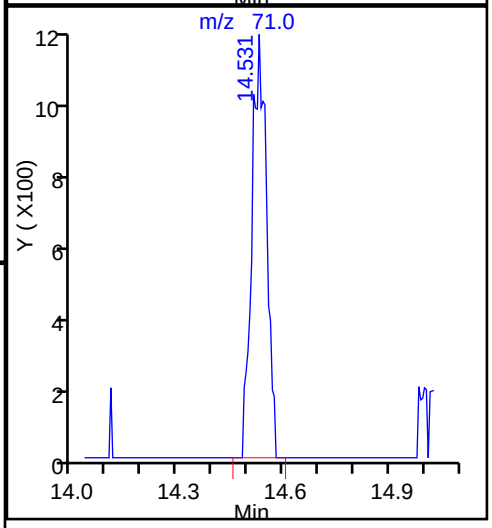
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

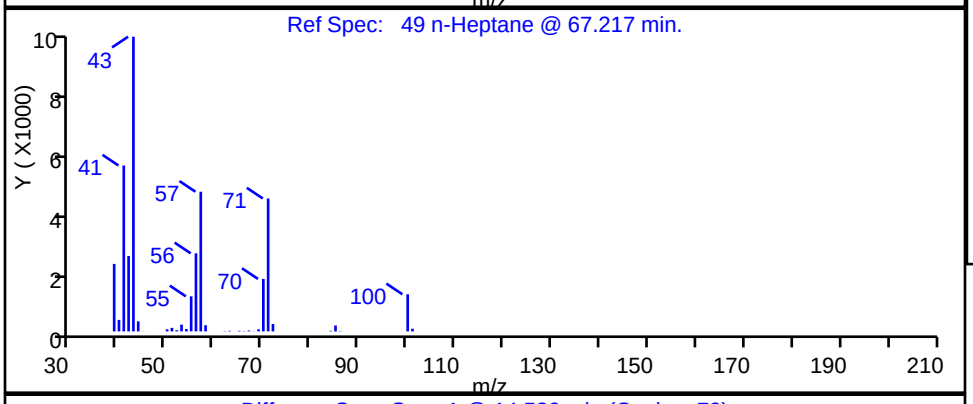
49 n-Heptane, CAS: 142-82-5

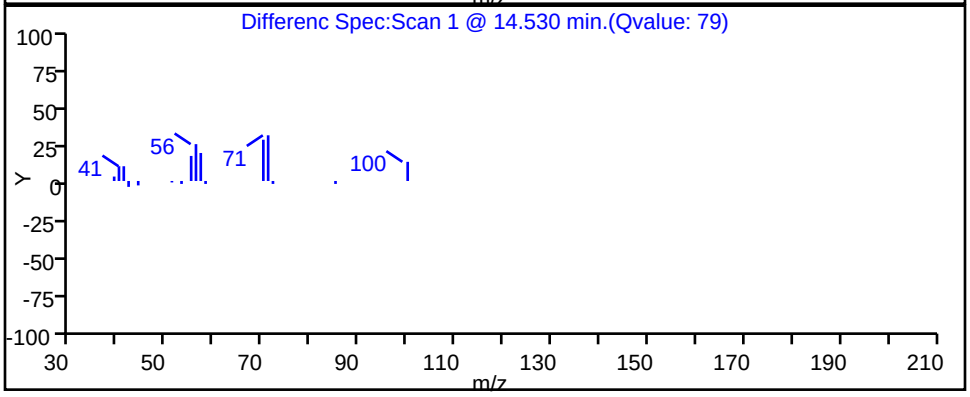












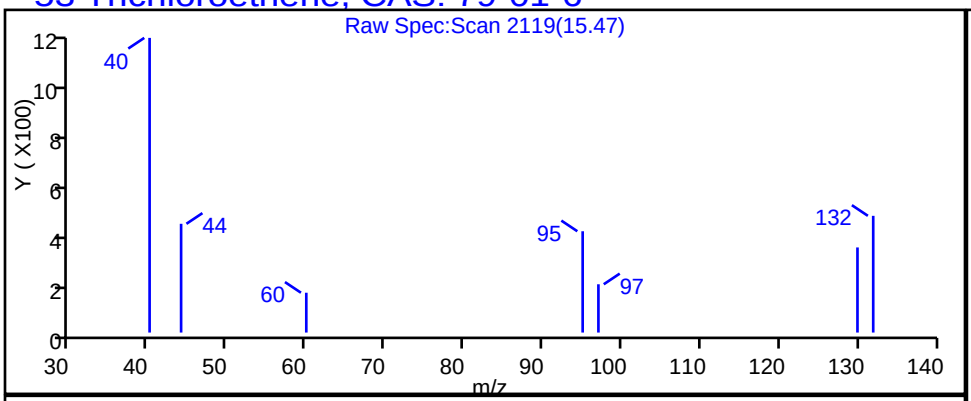
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

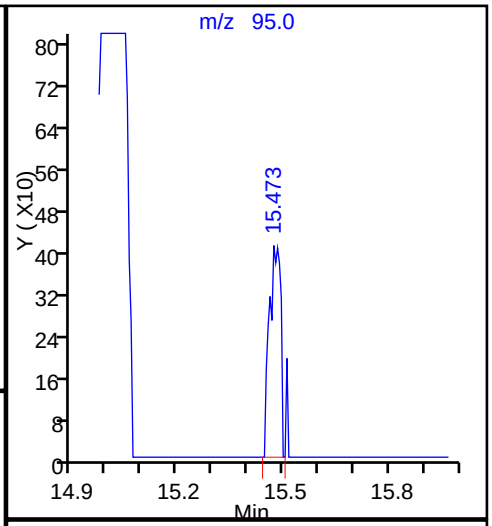
TestAmerica Burlington

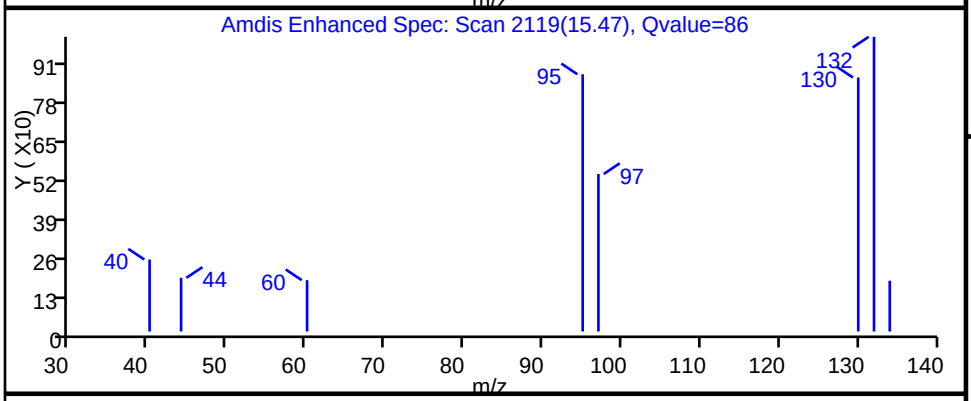
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

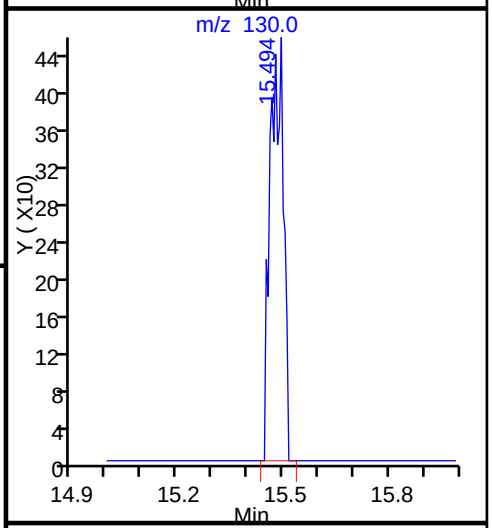
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

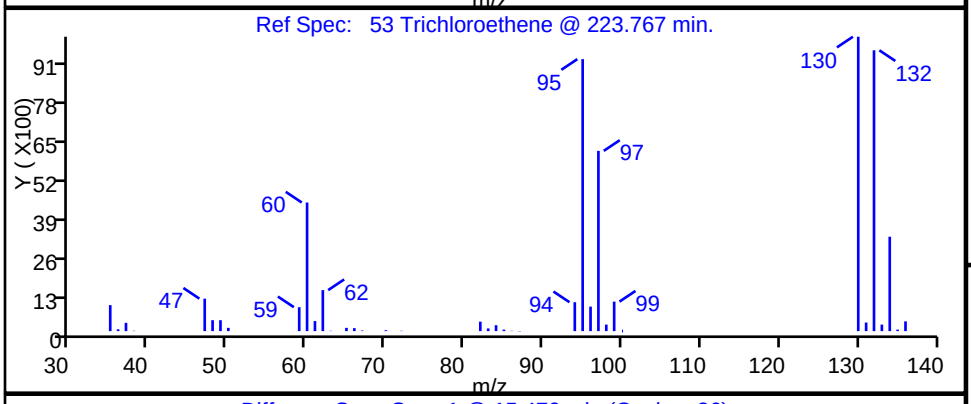
53 Trichloroethene, CAS: 79-01-6

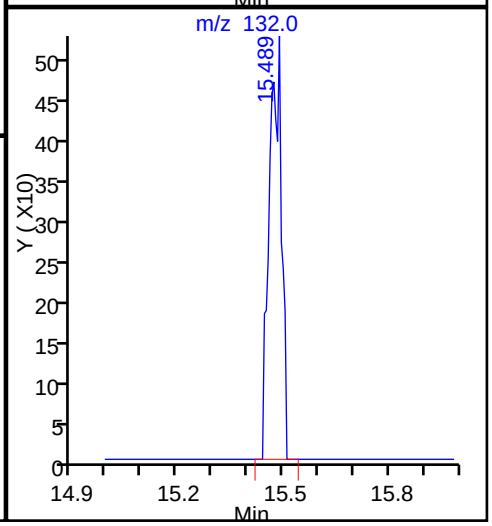


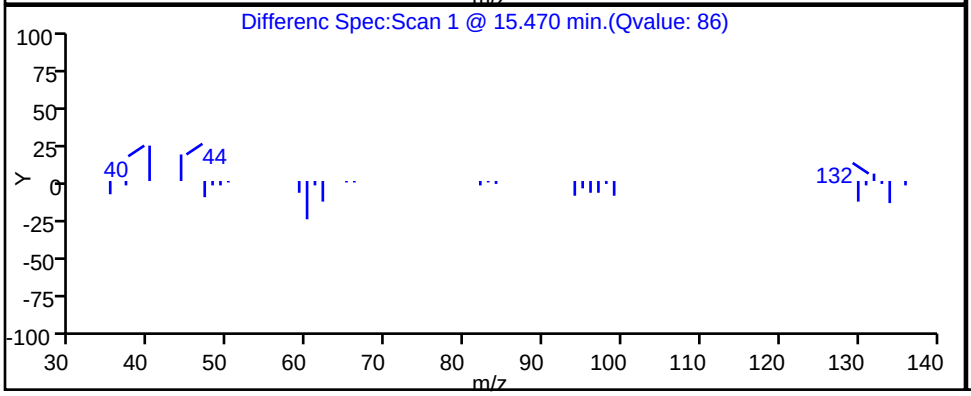










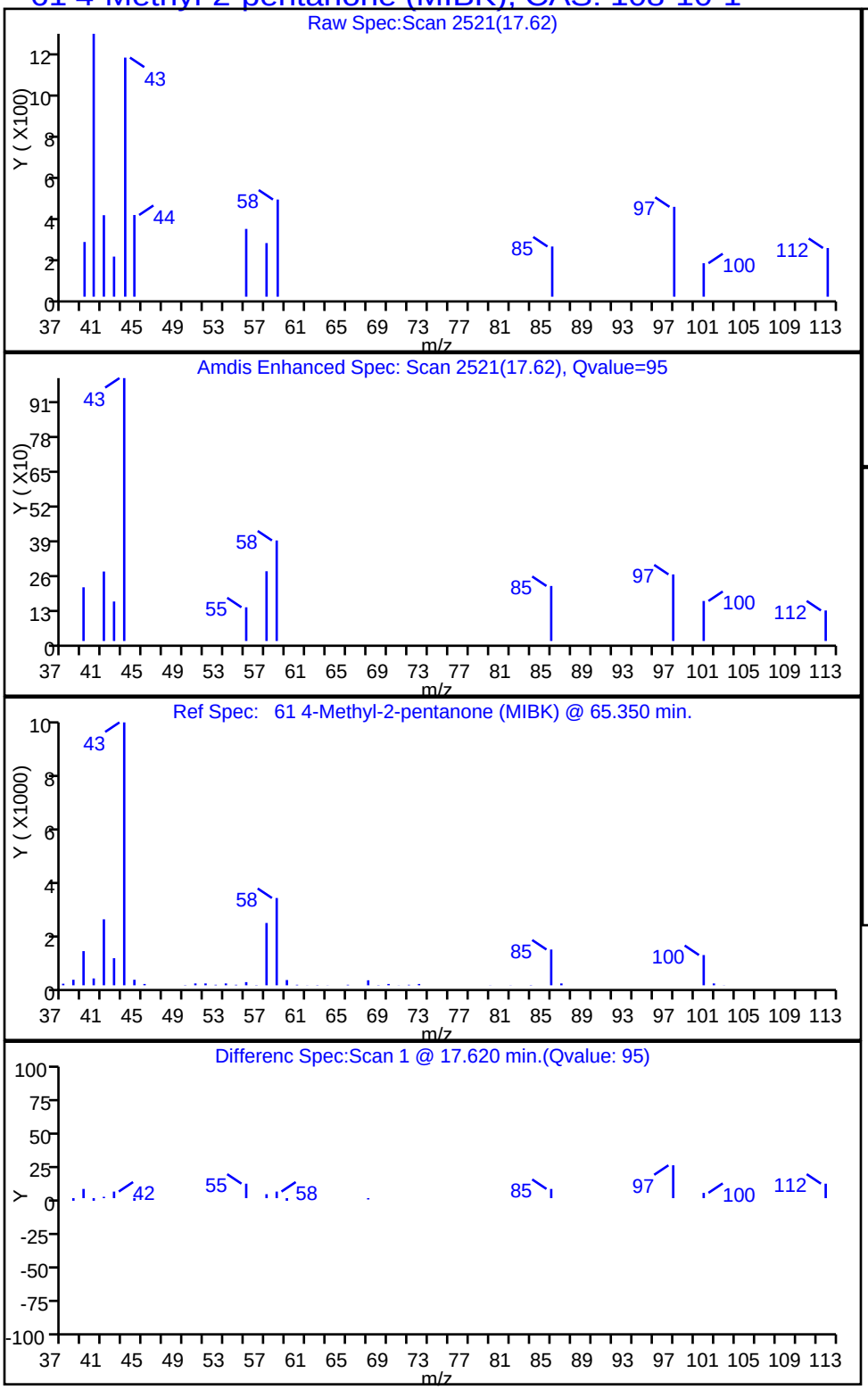


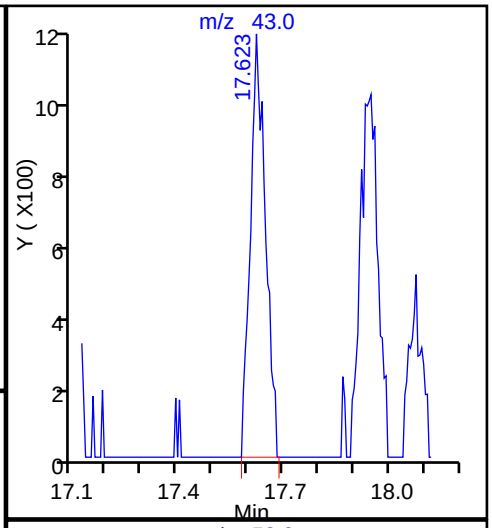
Report Date: 30-Sep-2015 14:18:14 Chrom Revision: 2.2 23-Jul-2015 08:26:08

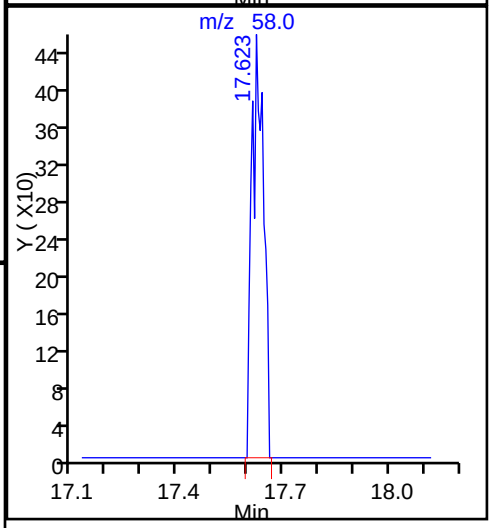
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1







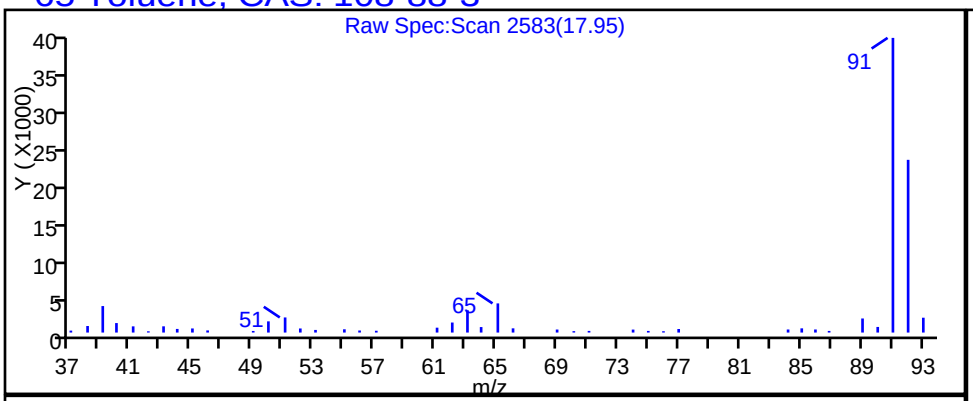
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

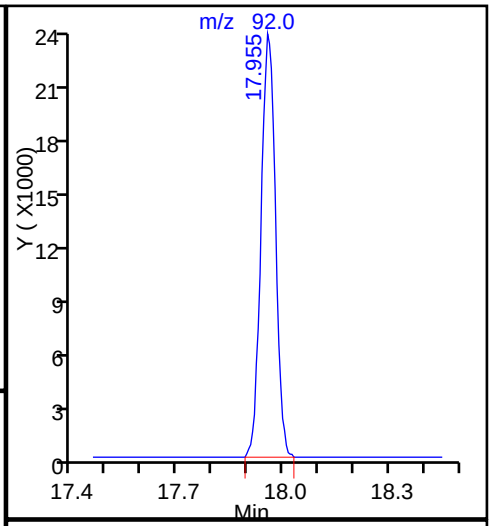
TestAmerica Burlington

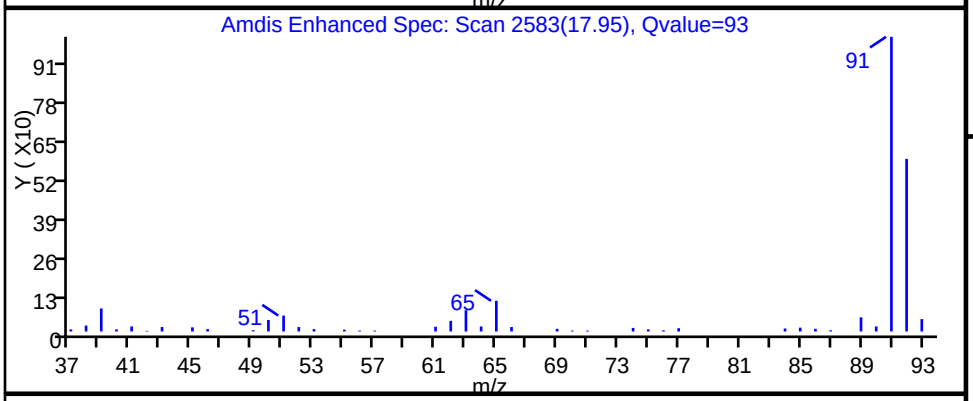
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

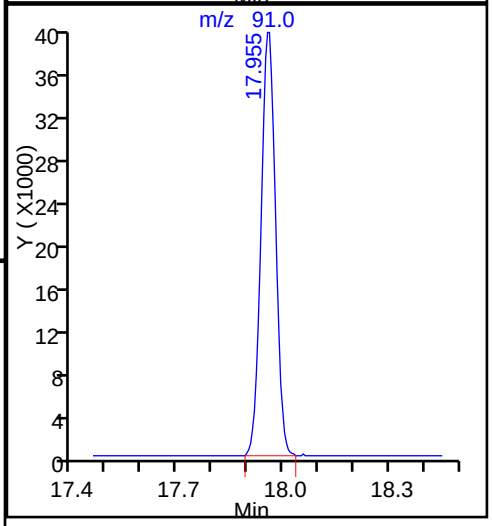
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

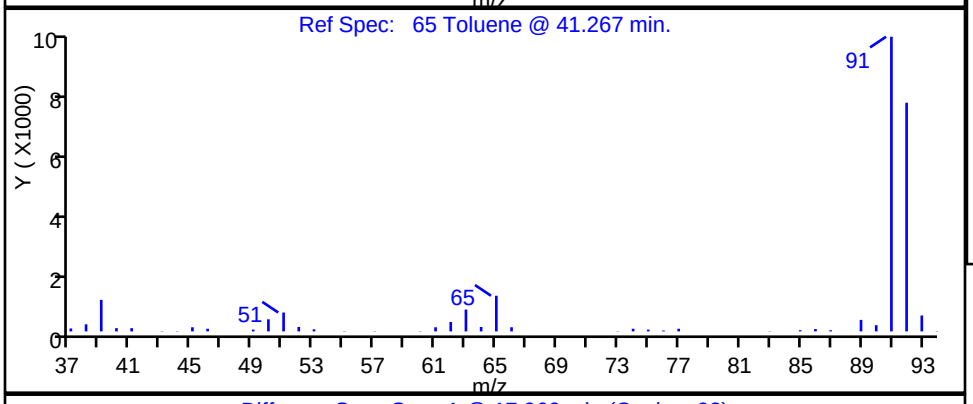
65 Toluene, CAS: 108-88-3

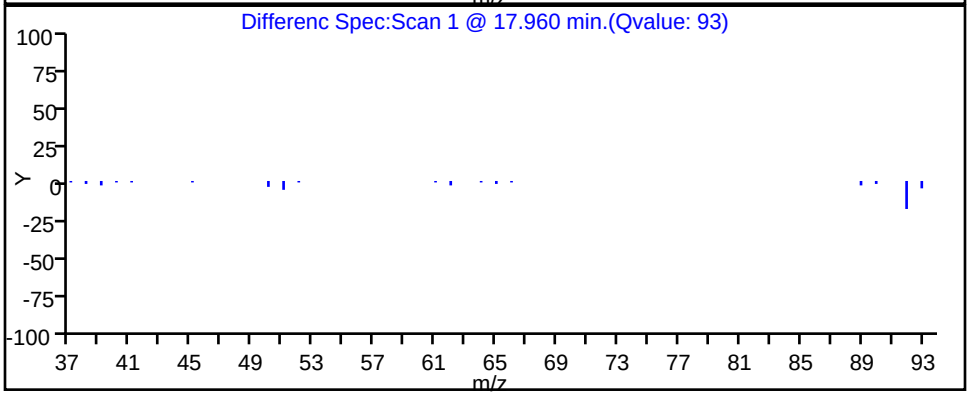












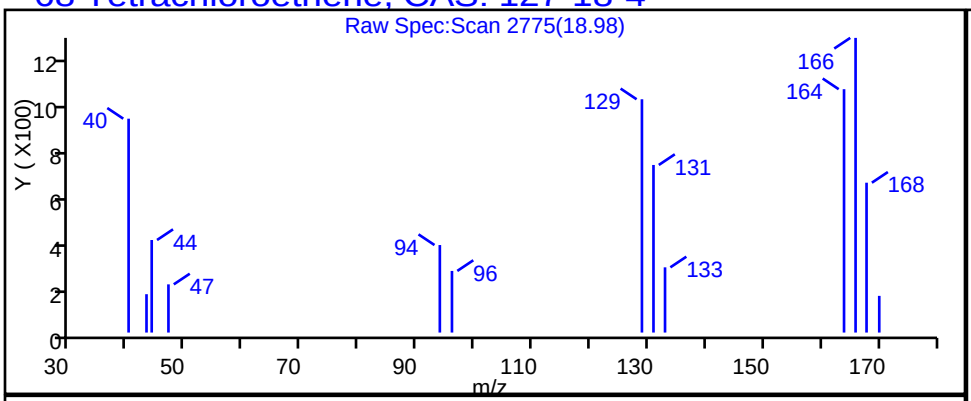
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

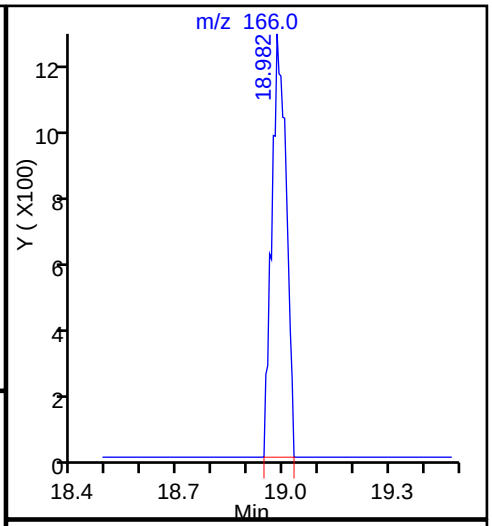
TestAmerica Burlington

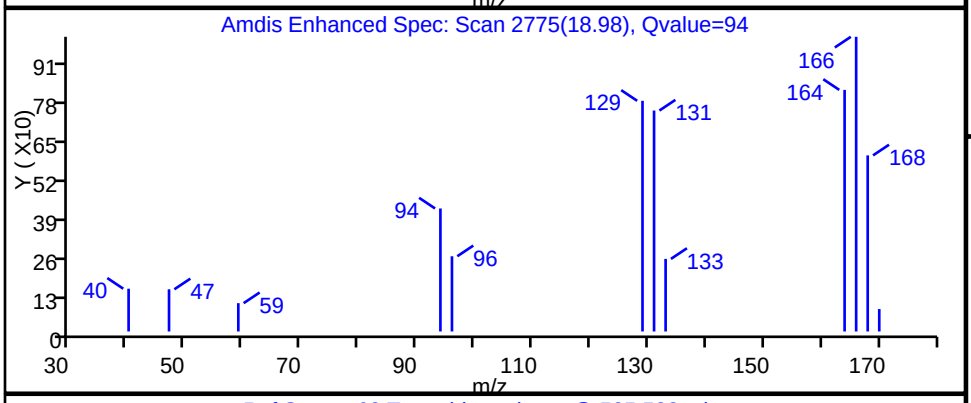
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

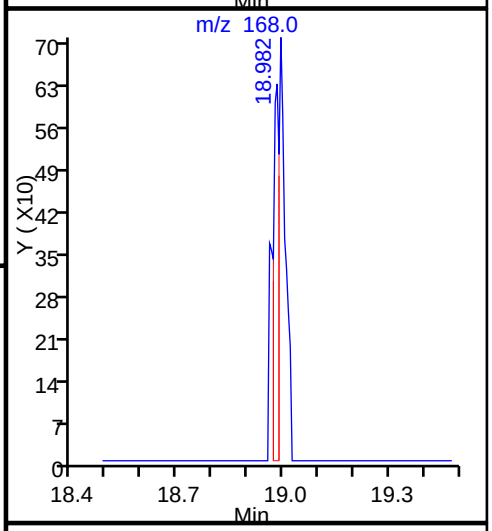
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

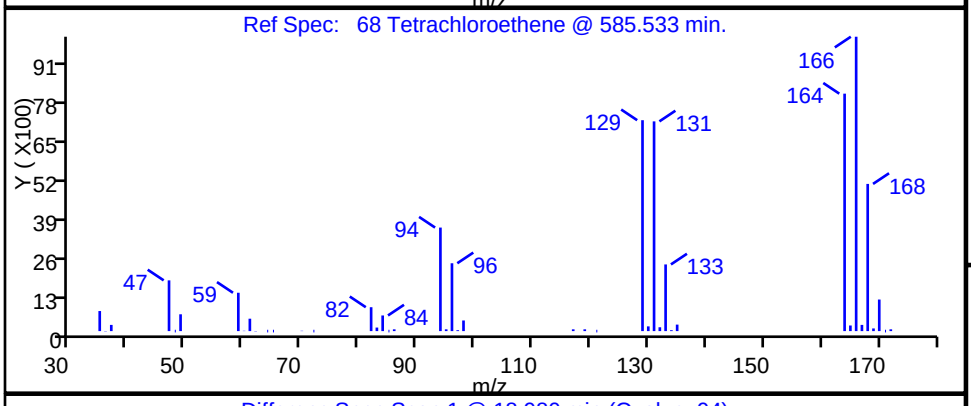
68 Tetrachloroethene, CAS: 127-18-4

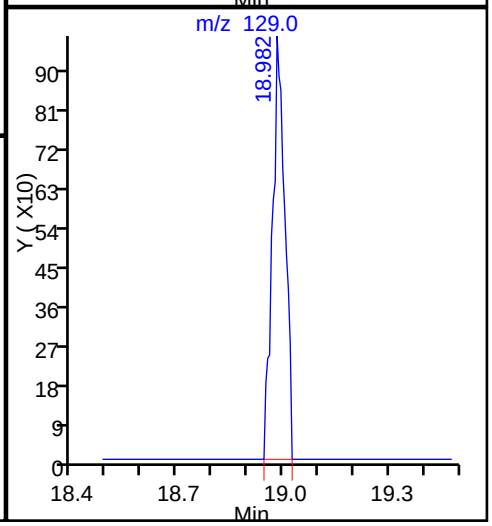


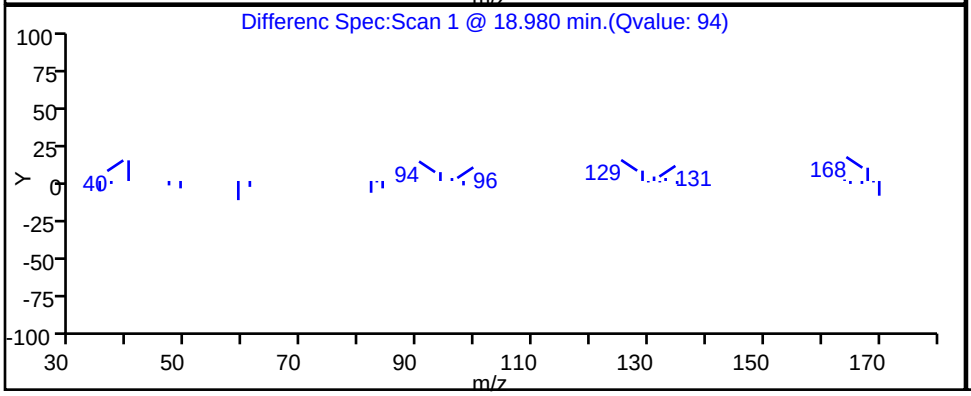










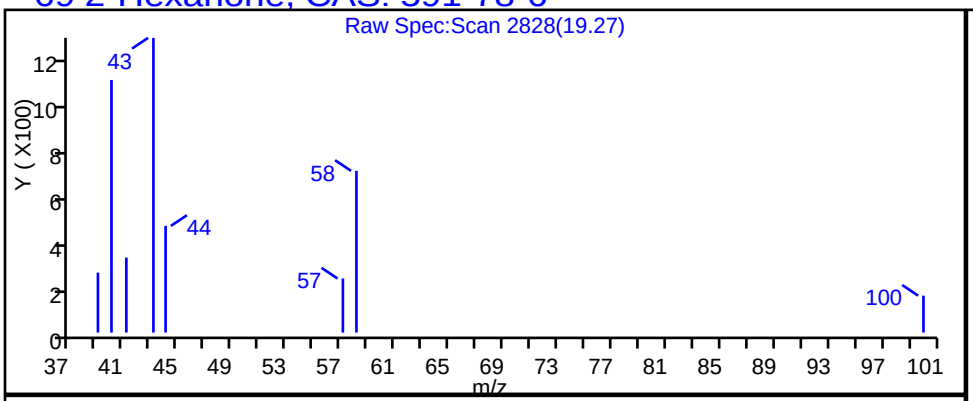


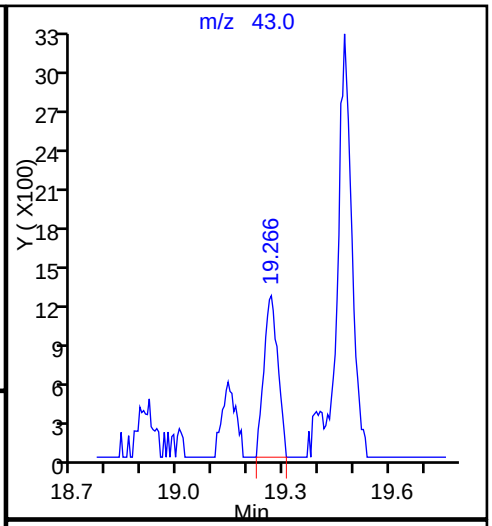
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

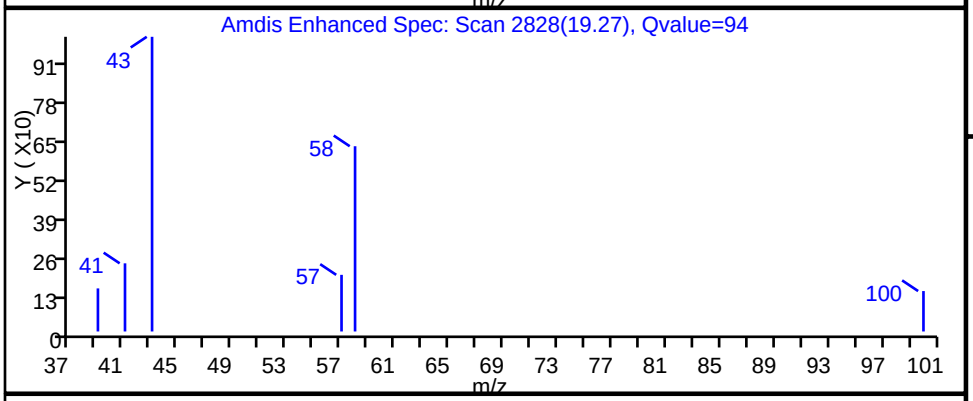
TestAmerica Burlington

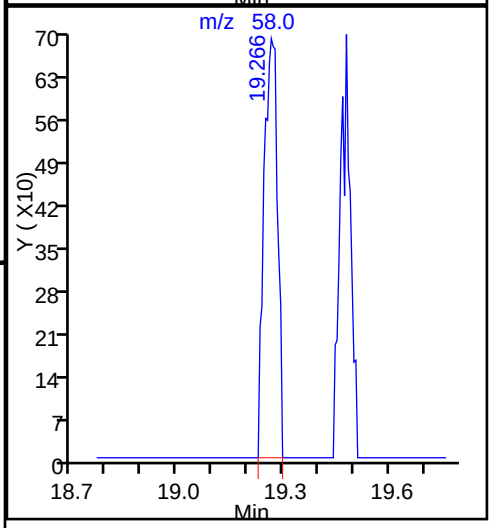
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

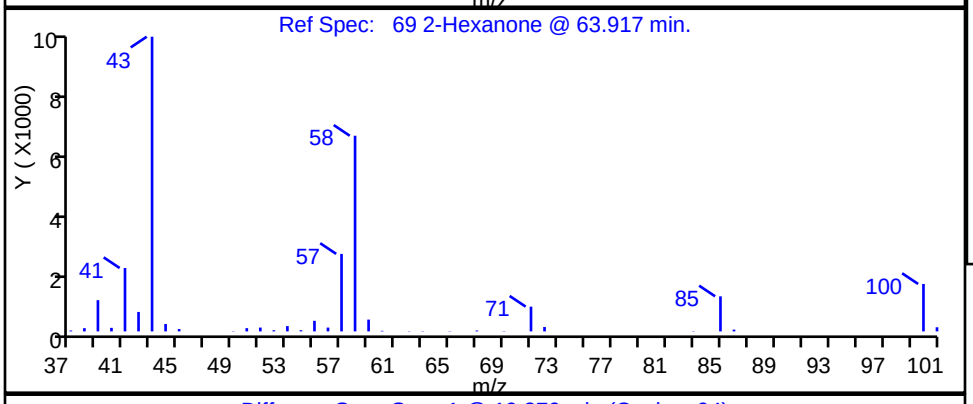
69 2-Hexanone, CAS: 591-78-6

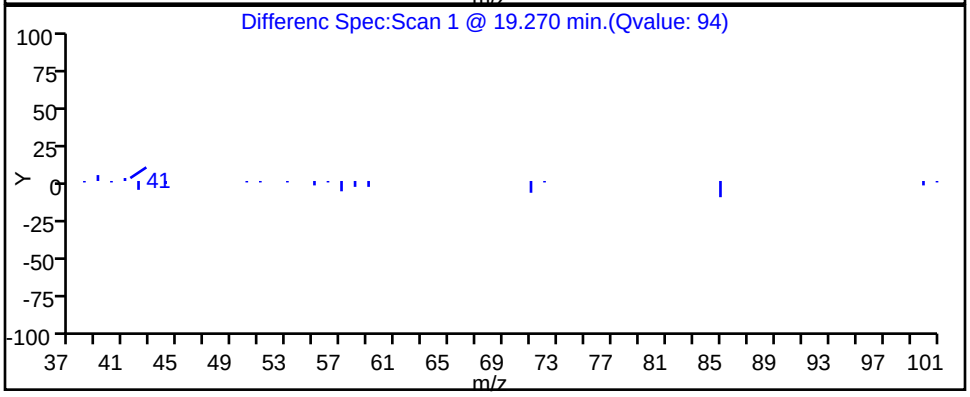












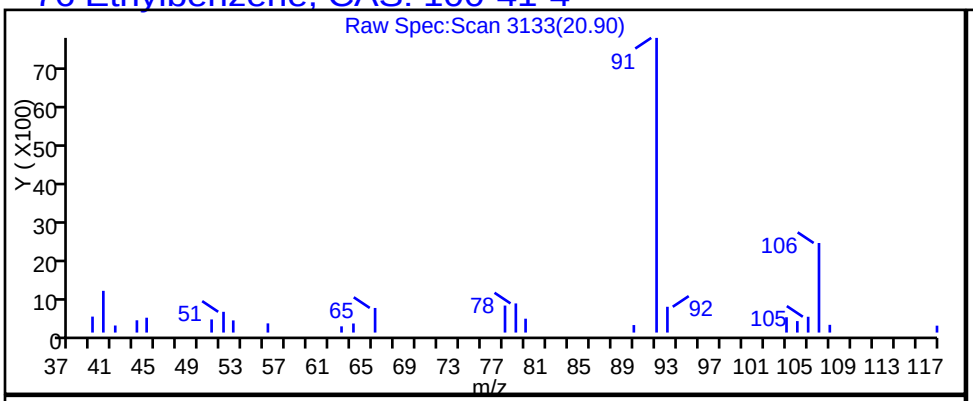
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

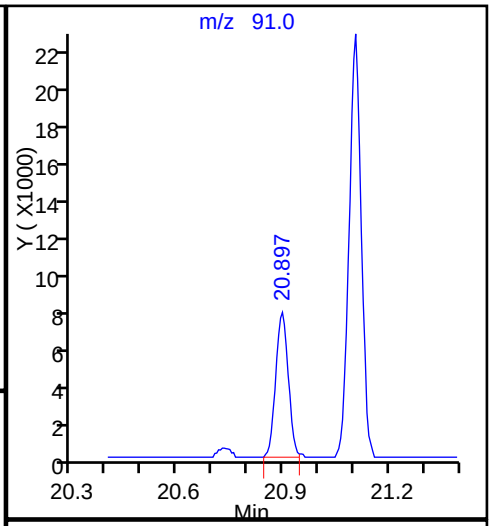
TestAmerica Burlington

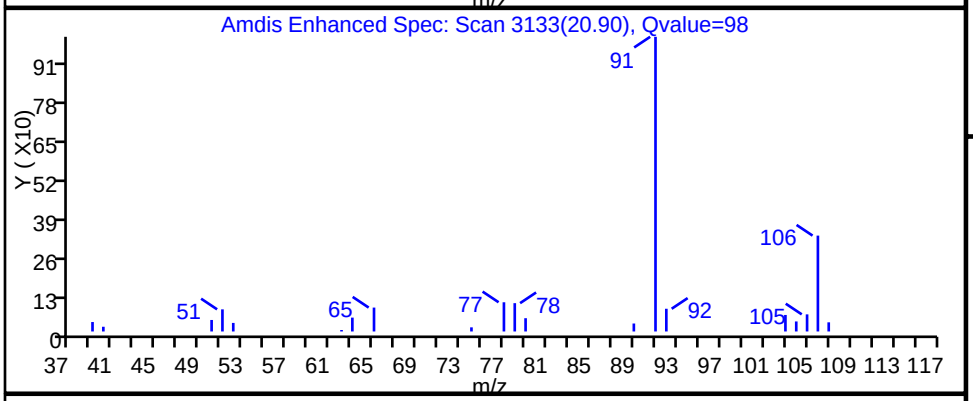
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

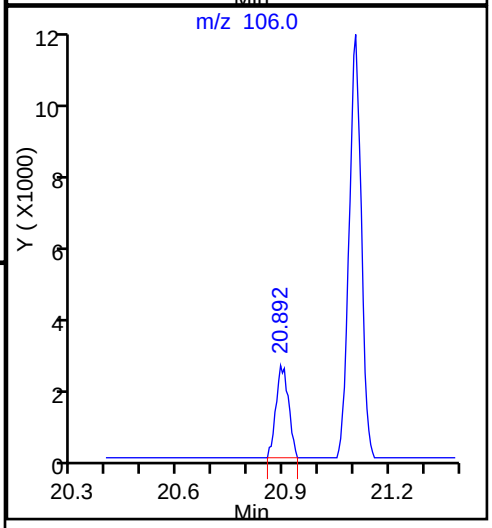
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

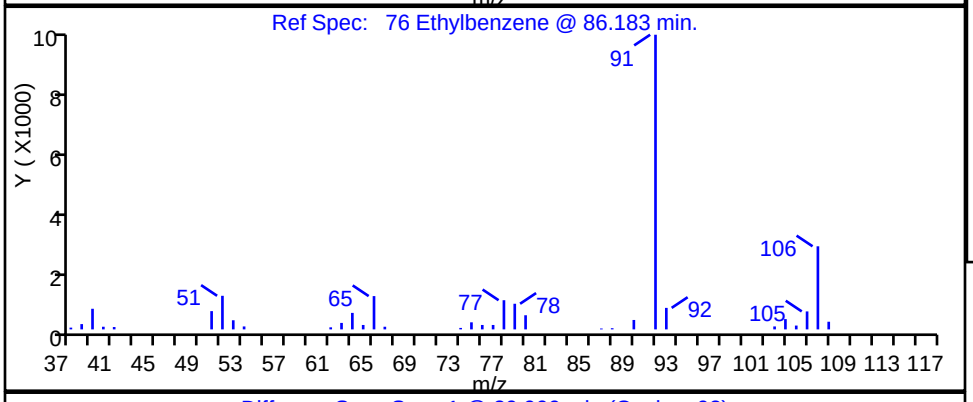
76 Ethylbenzene, CAS: 100-41-4

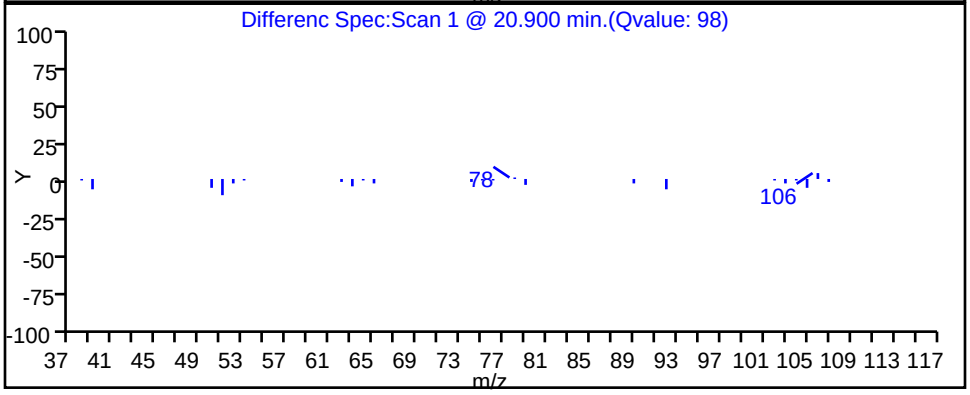










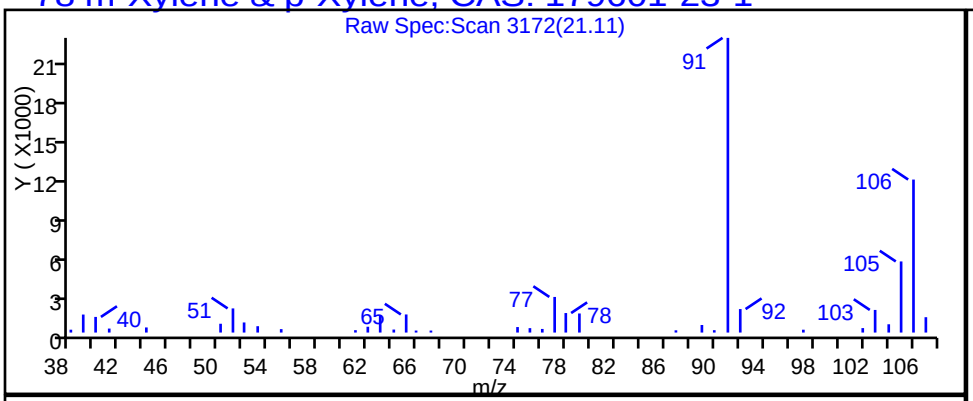


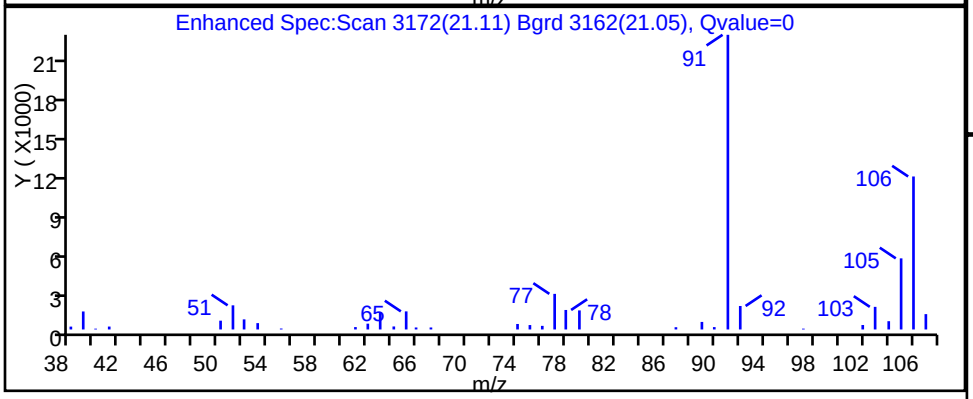
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

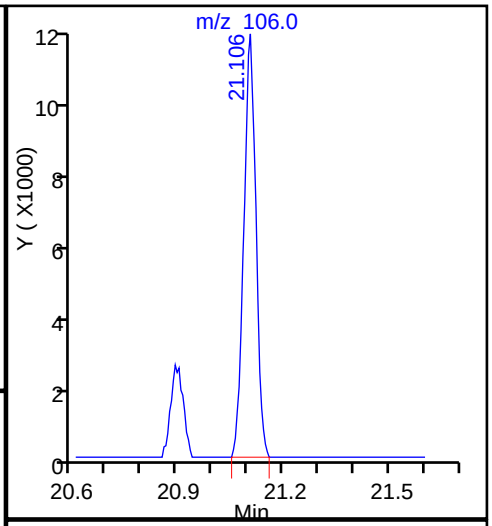
TestAmerica Burlington

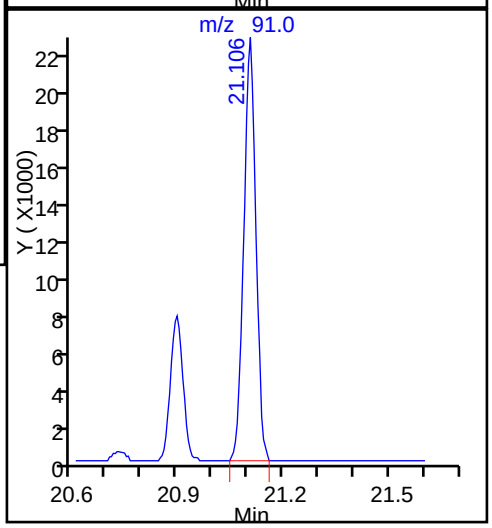
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







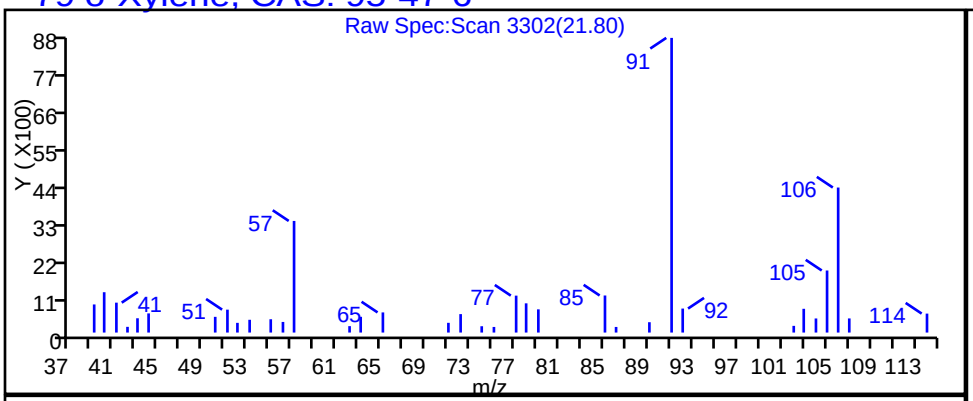


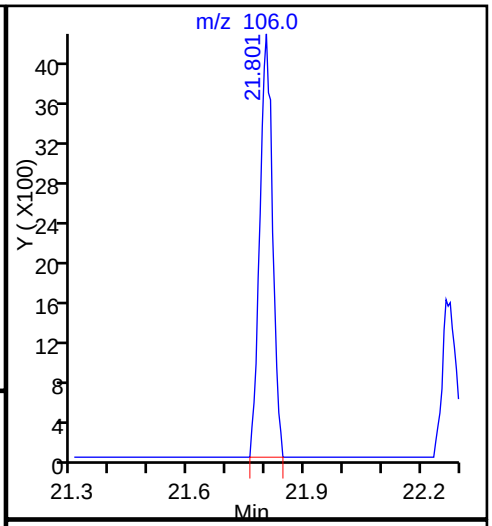
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

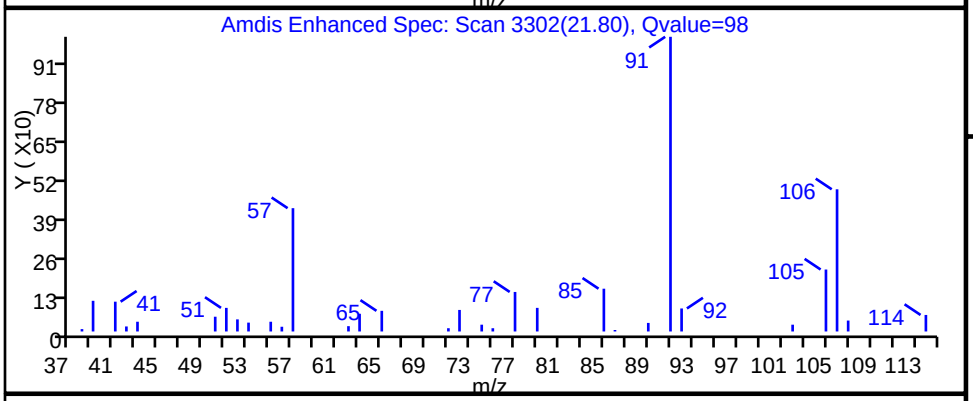
TestAmerica Burlington

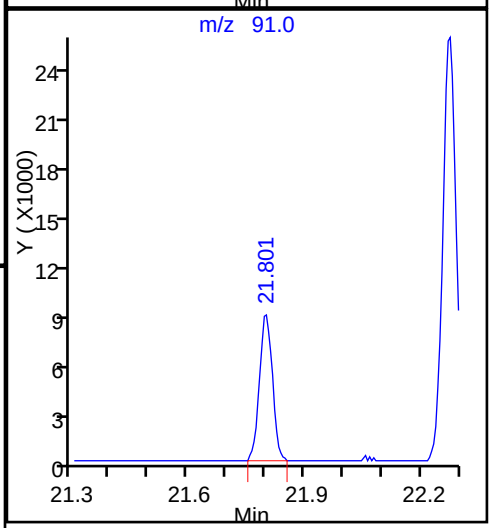
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

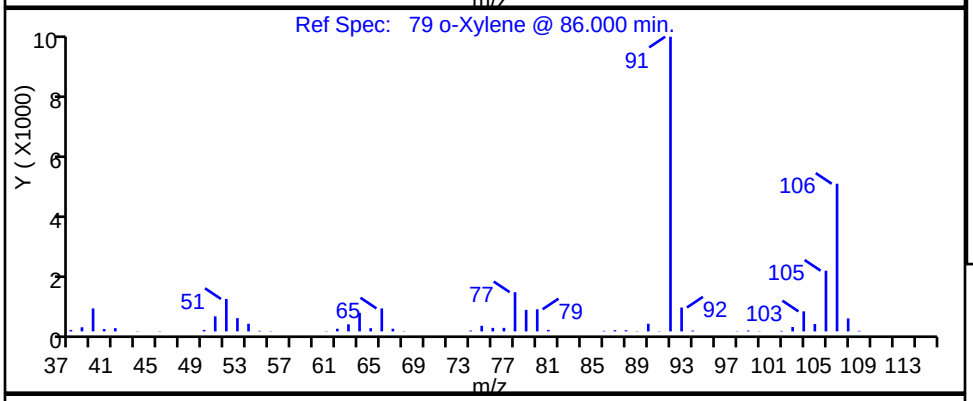
79 o-Xylene, CAS: 95-47-6

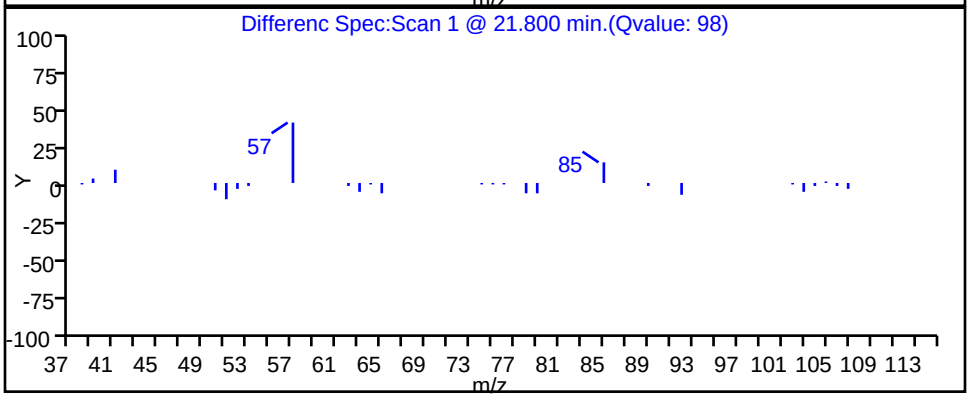












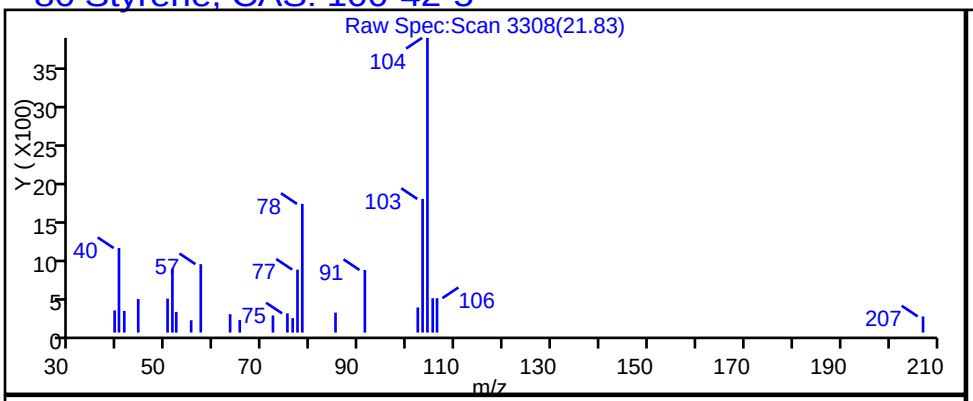
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

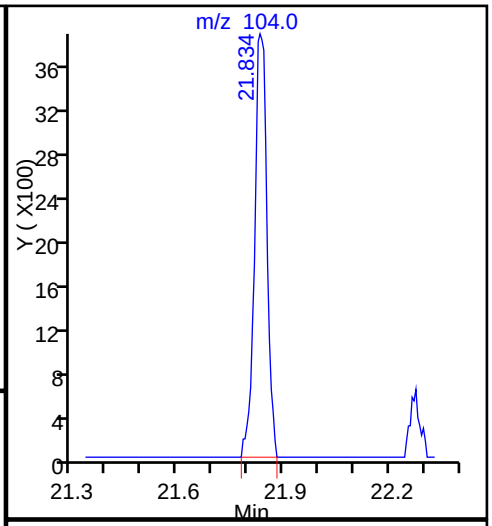
TestAmerica Burlington

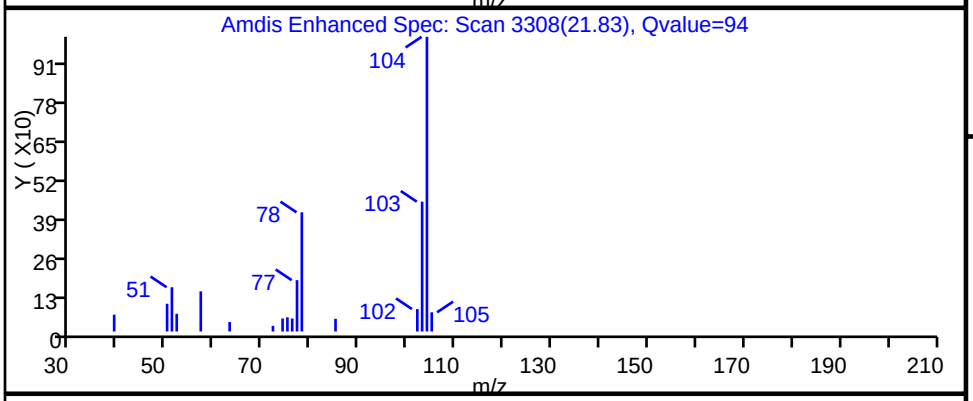
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

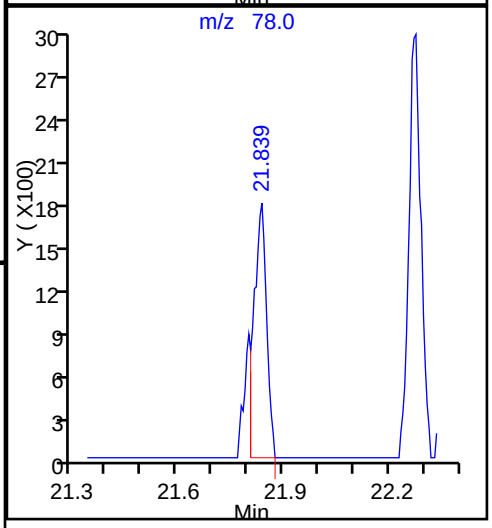
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

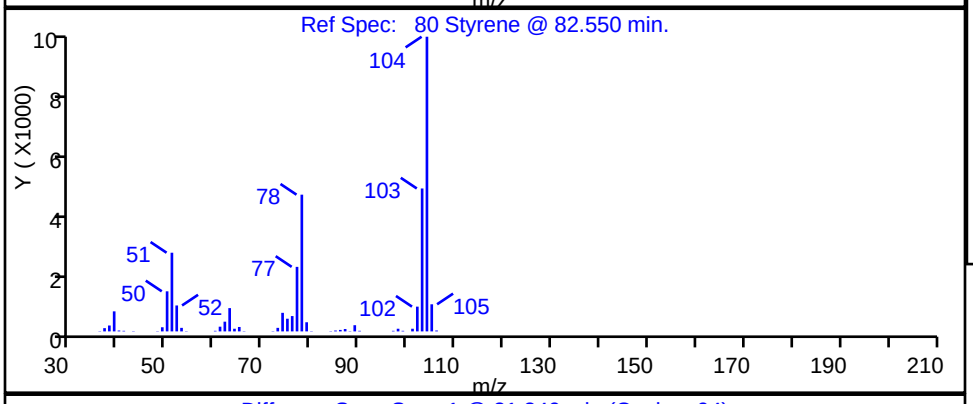
80 Styrene, CAS: 100-42-5

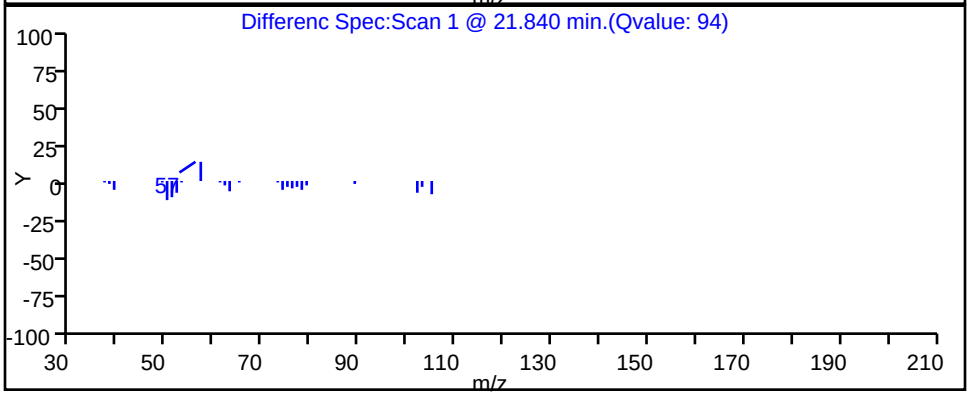












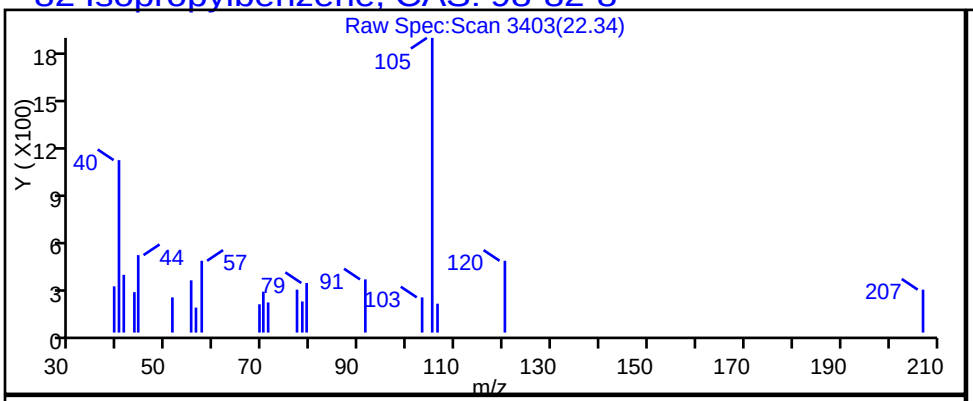
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

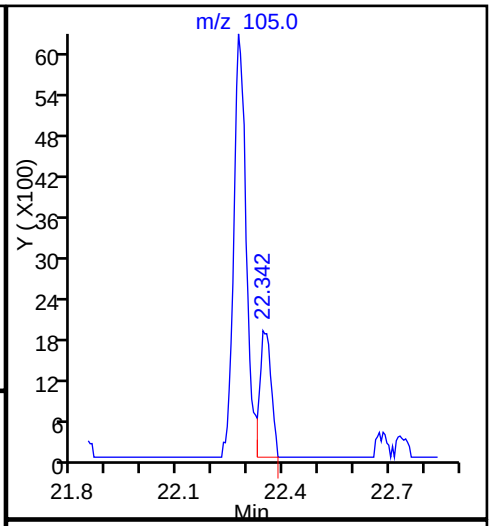
TestAmerica Burlington

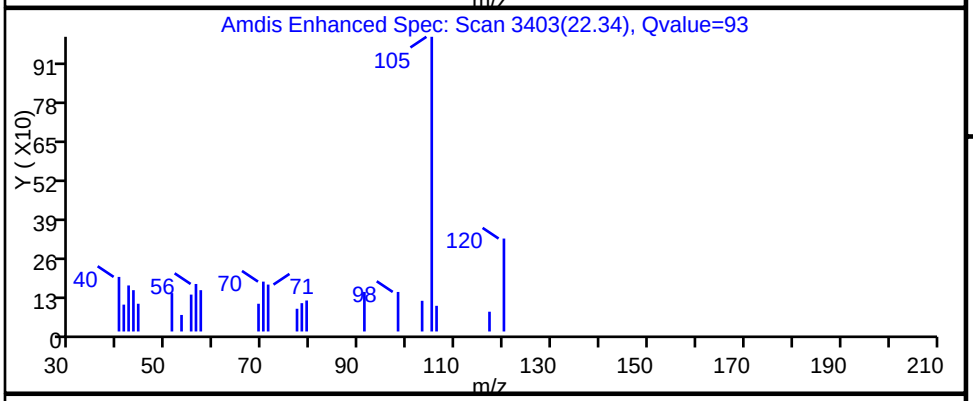
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

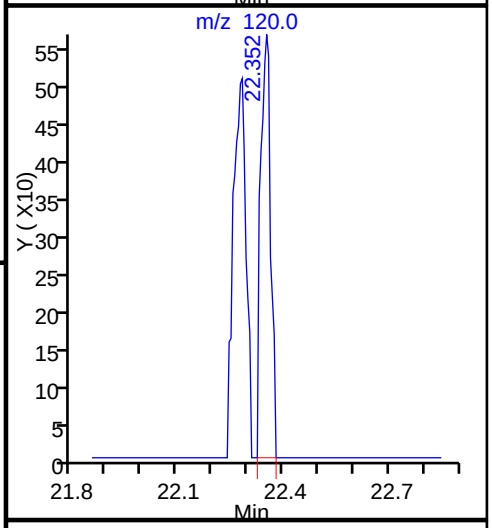
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

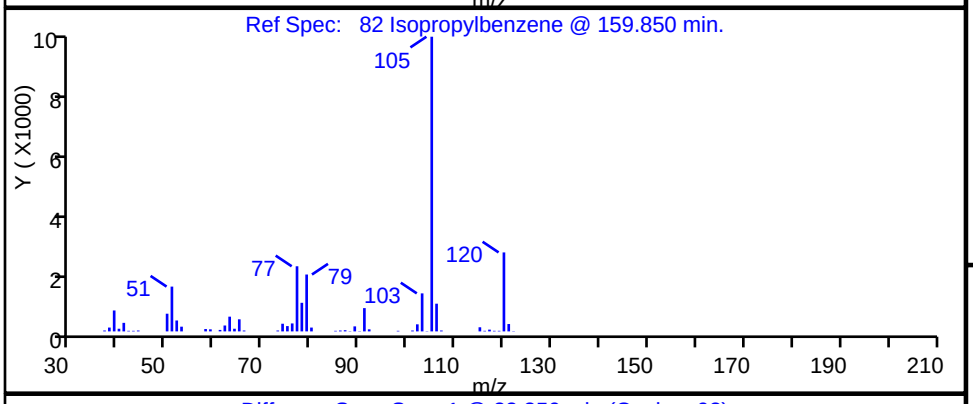
82 Isopropylbenzene, CAS: 98-82-8

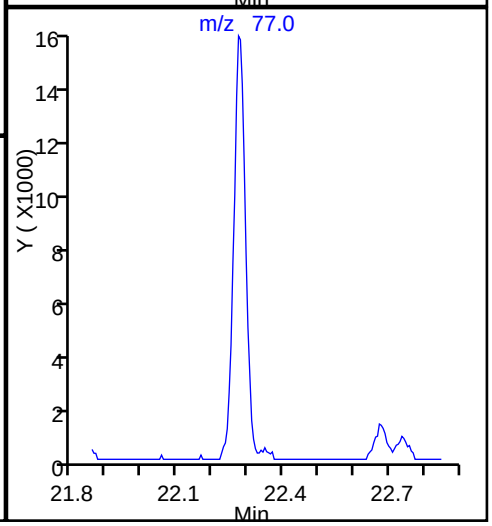


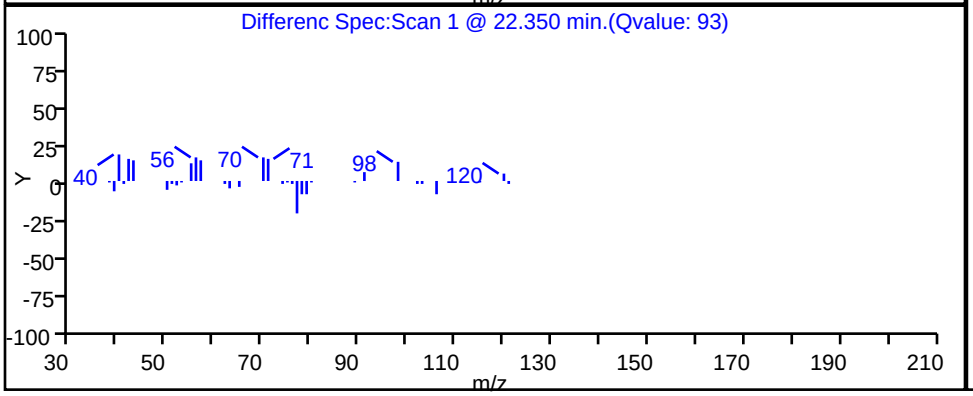












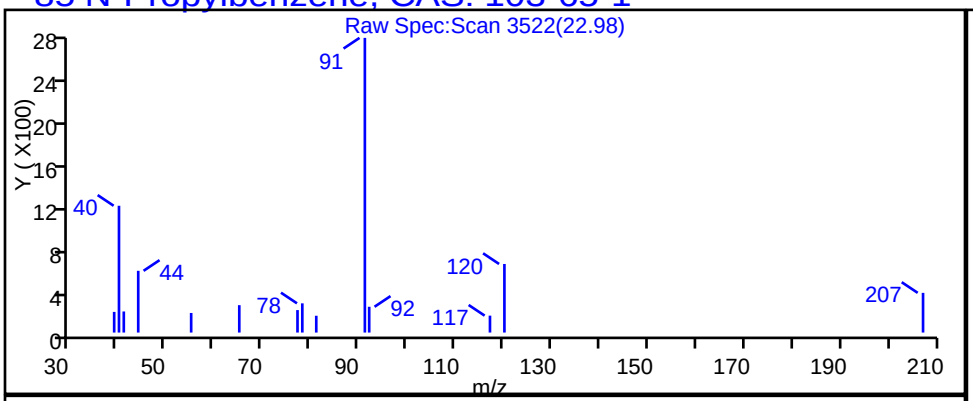
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

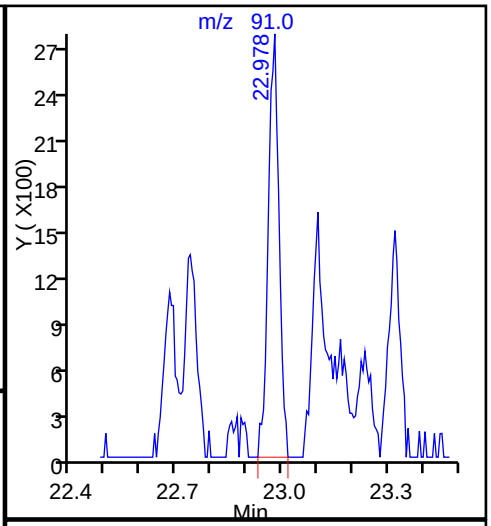
TestAmerica Burlington

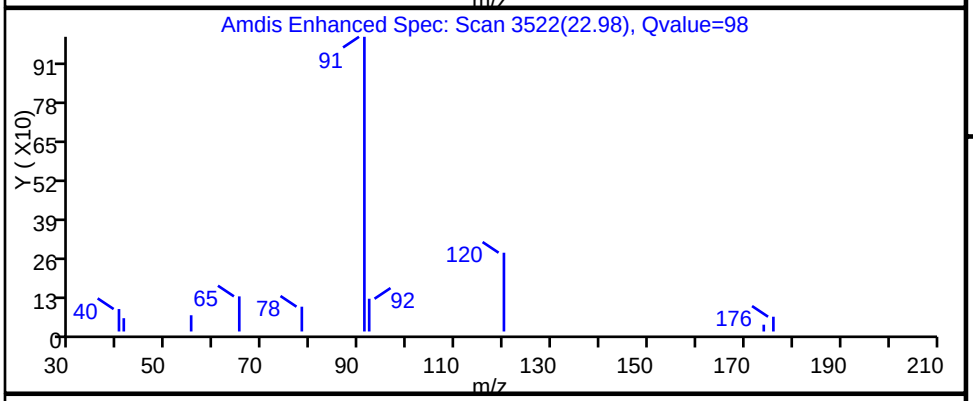
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

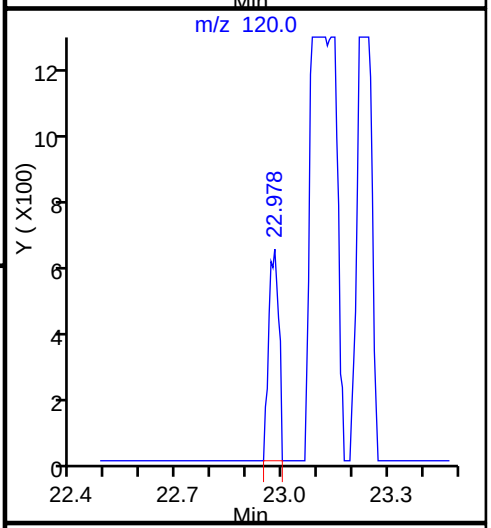
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

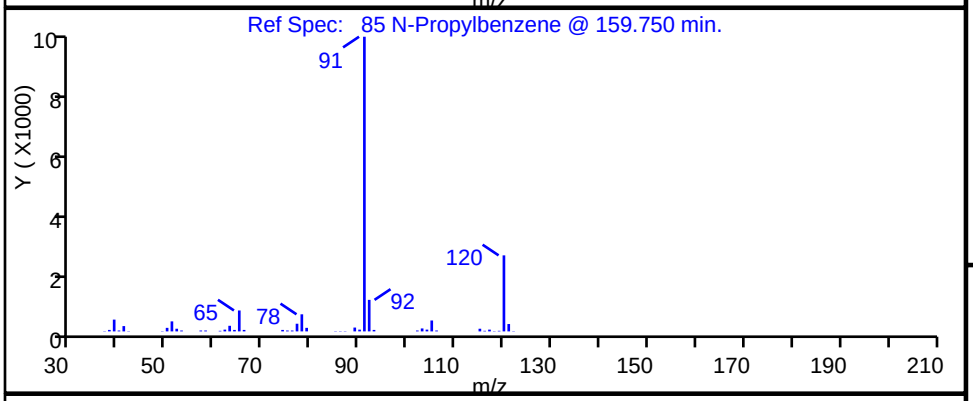
85 N-Propylbenzene, CAS: 103-65-1

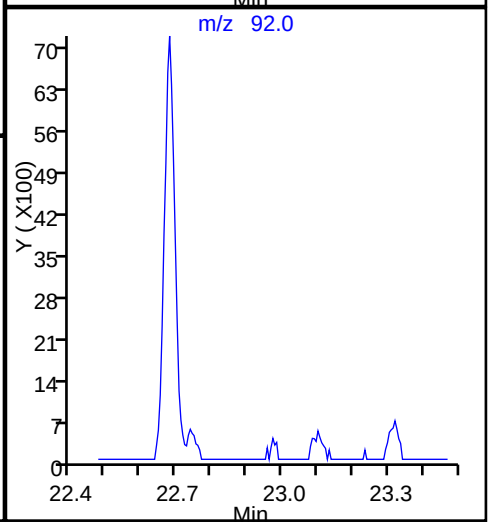


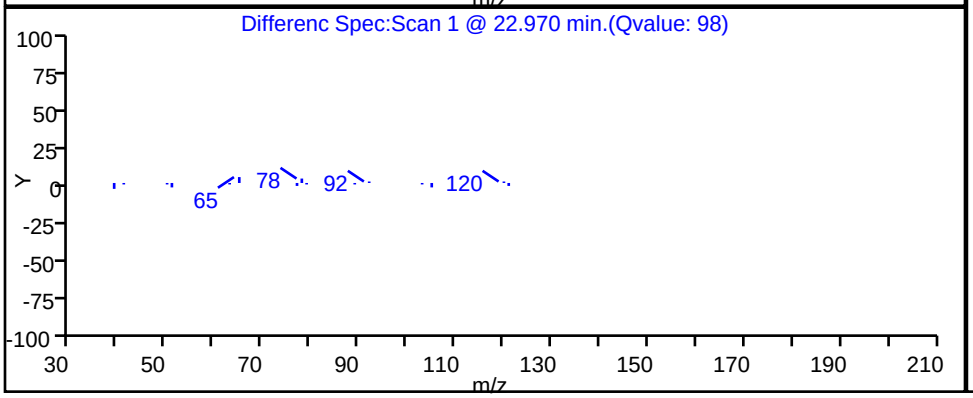












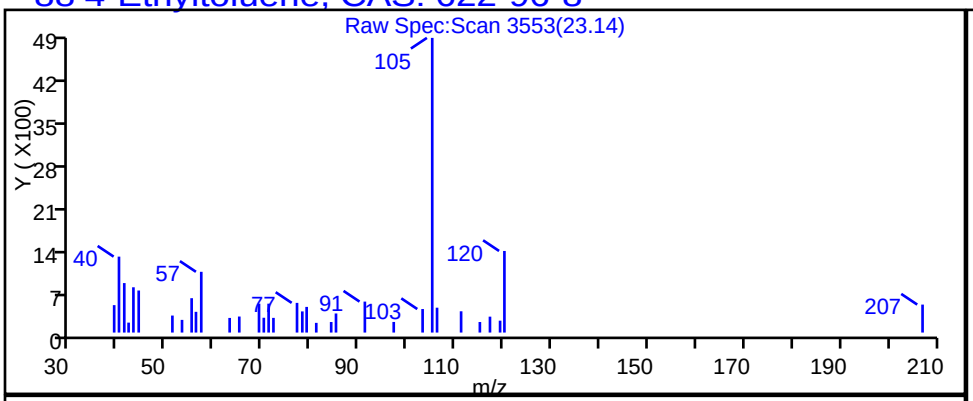
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

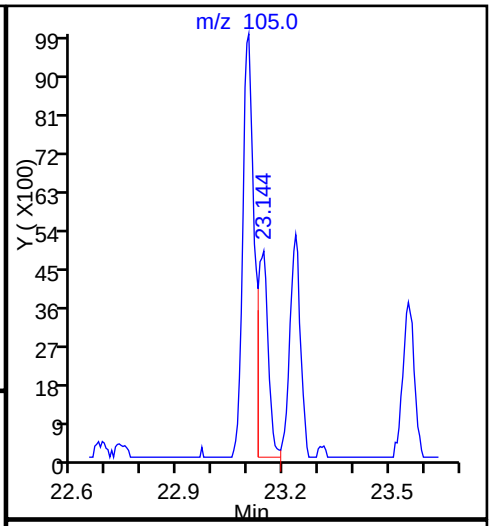
TestAmerica Burlington

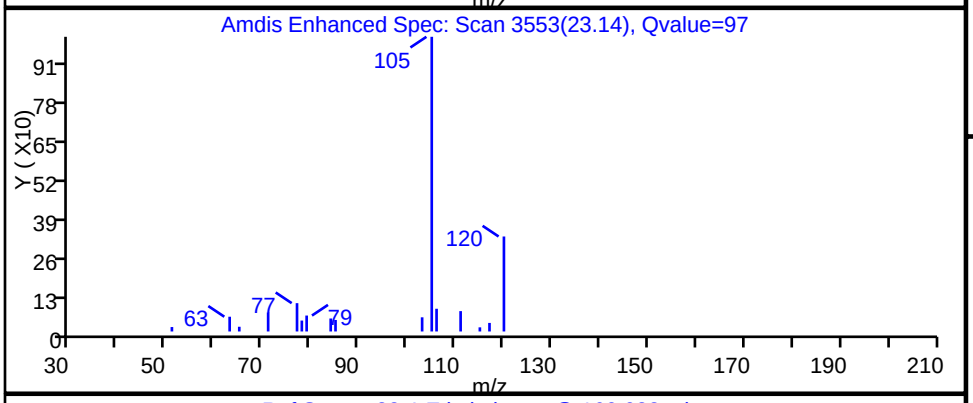
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

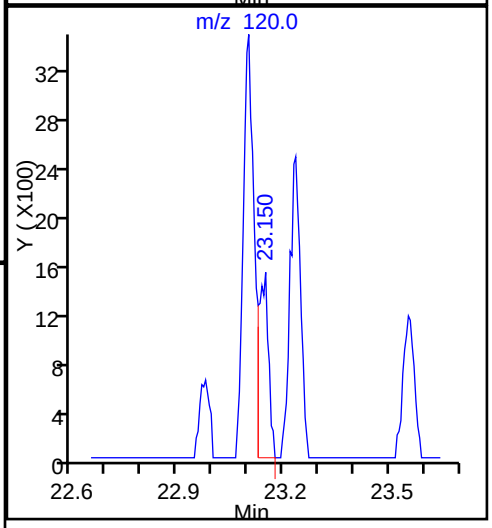
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

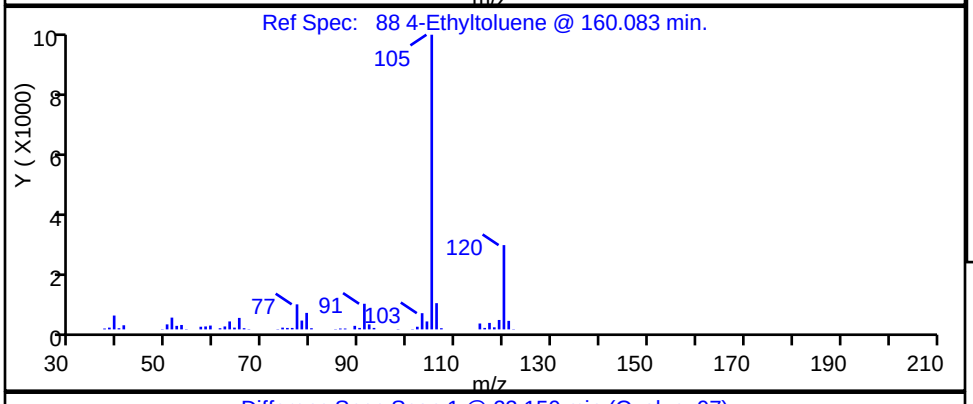
88 4-Ethyltoluene, CAS: 622-96-8

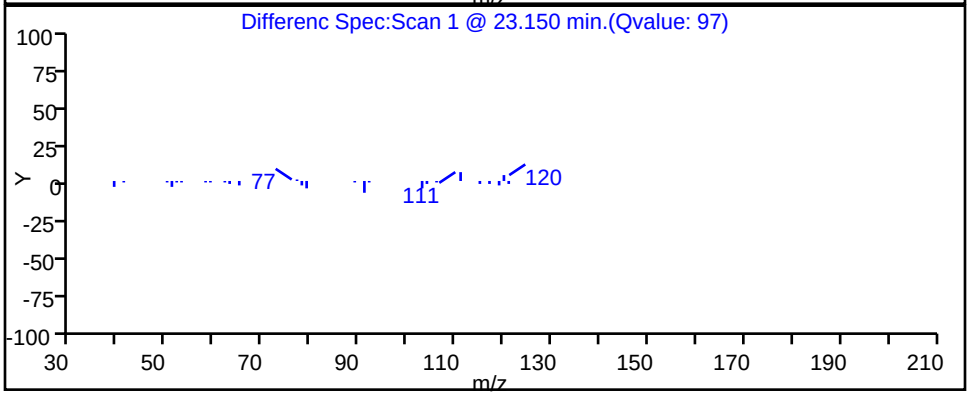










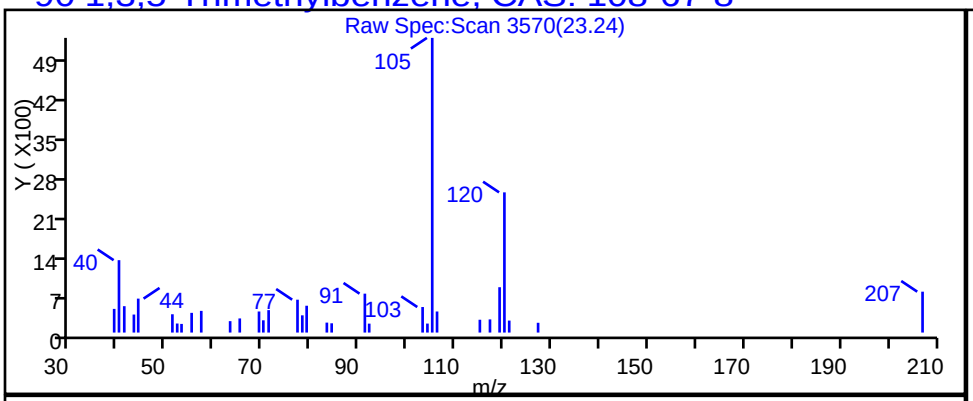


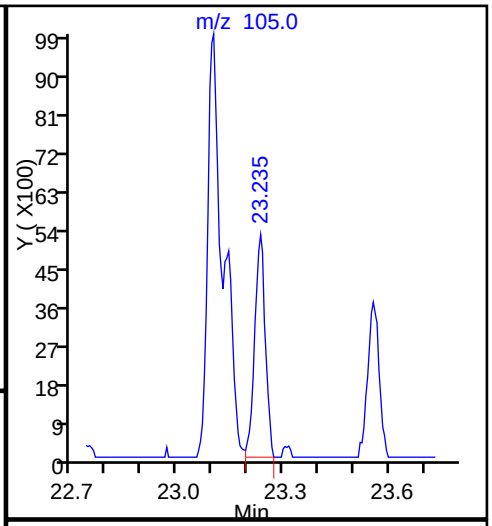
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

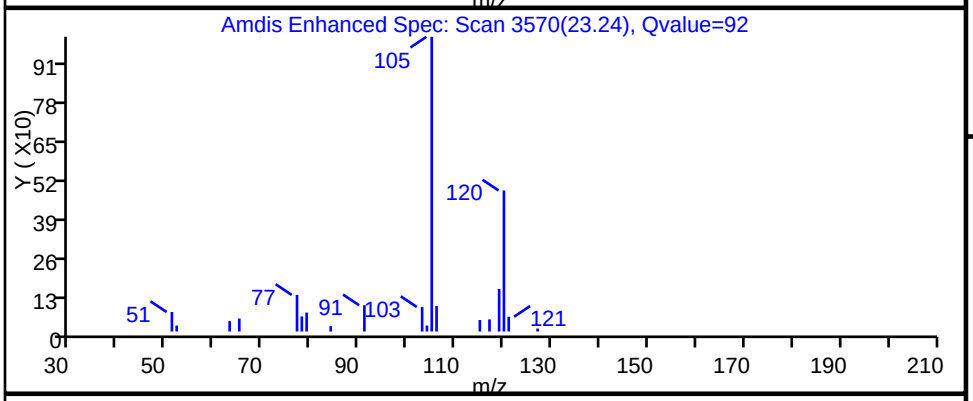
TestAmerica Burlington

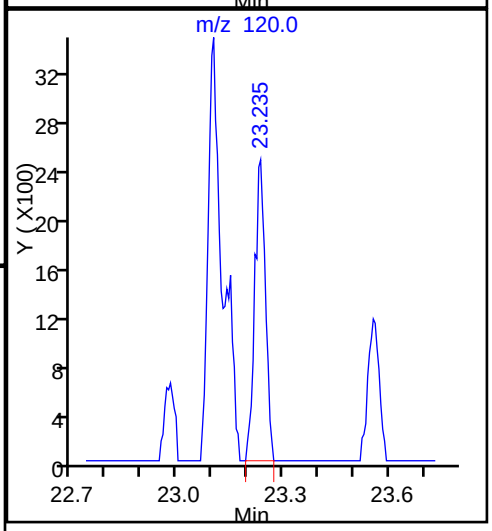
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

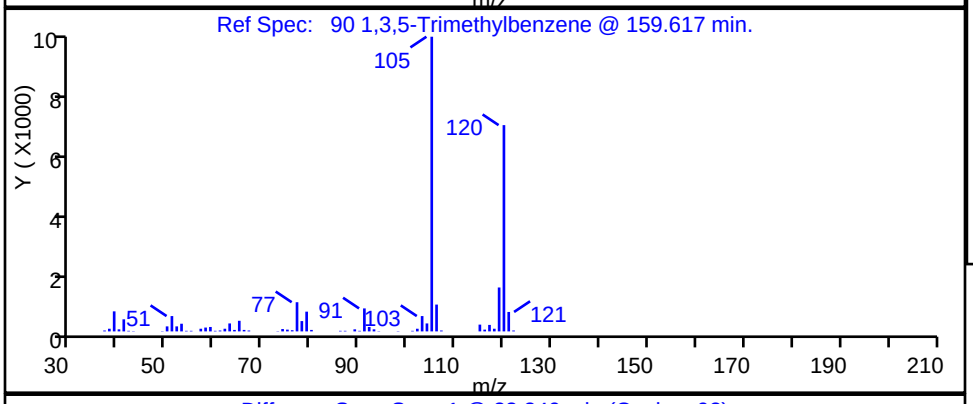
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

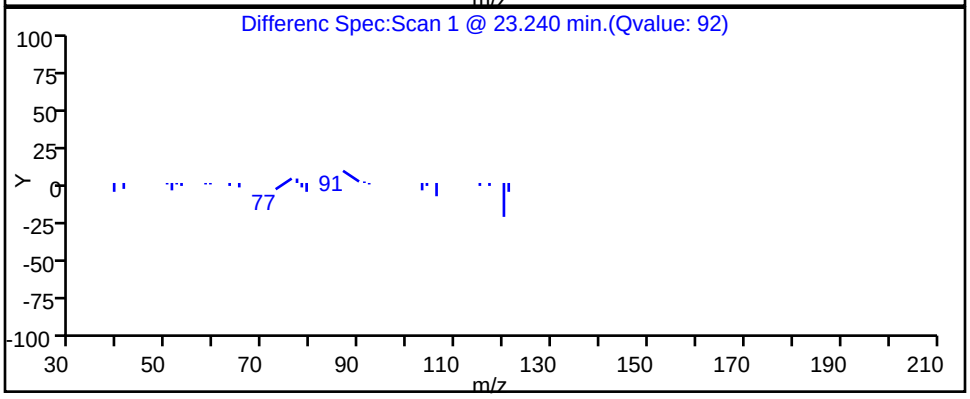










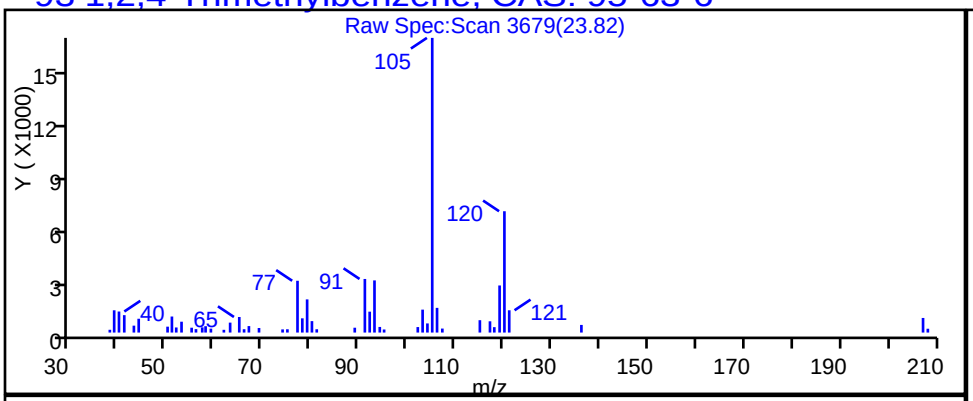


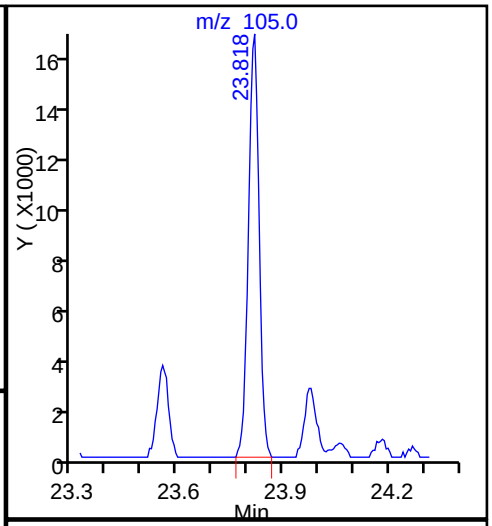
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

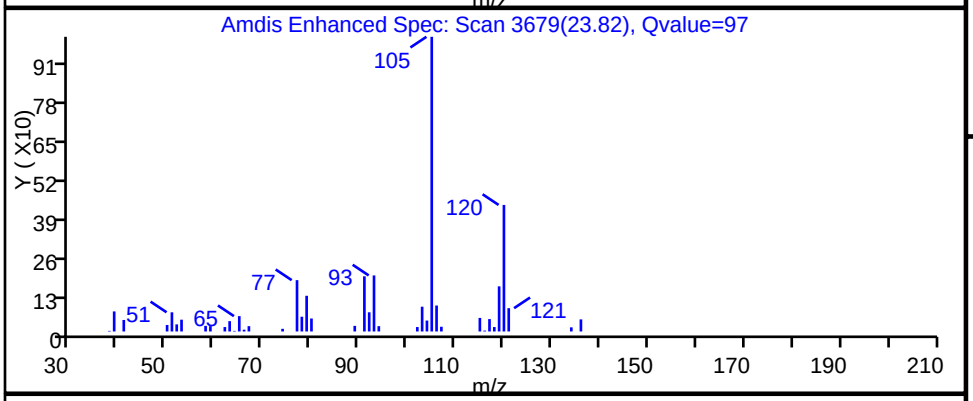
TestAmerica Burlington

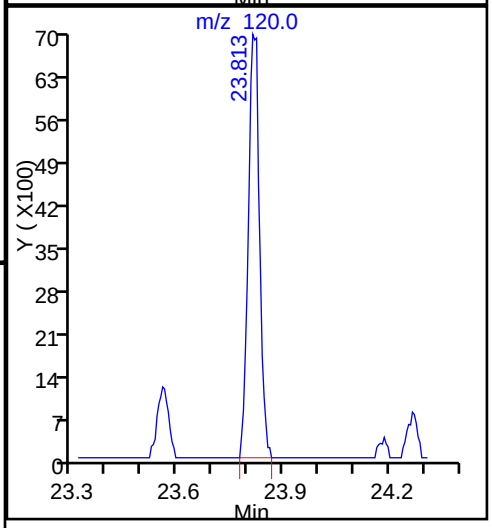
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

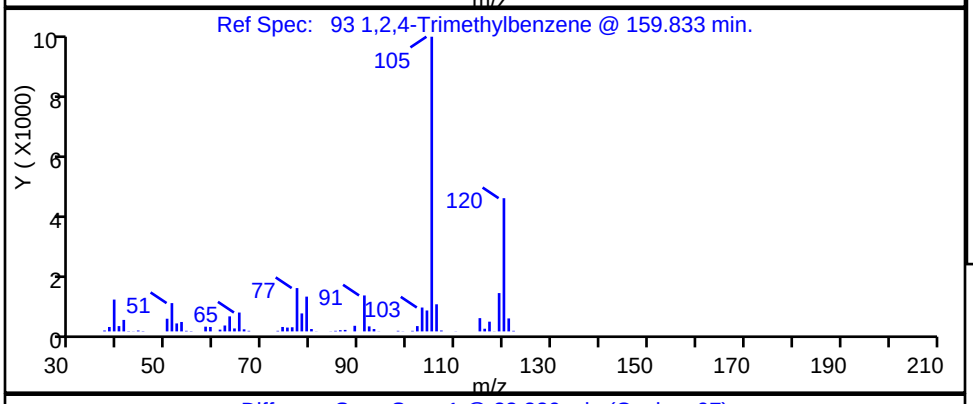
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

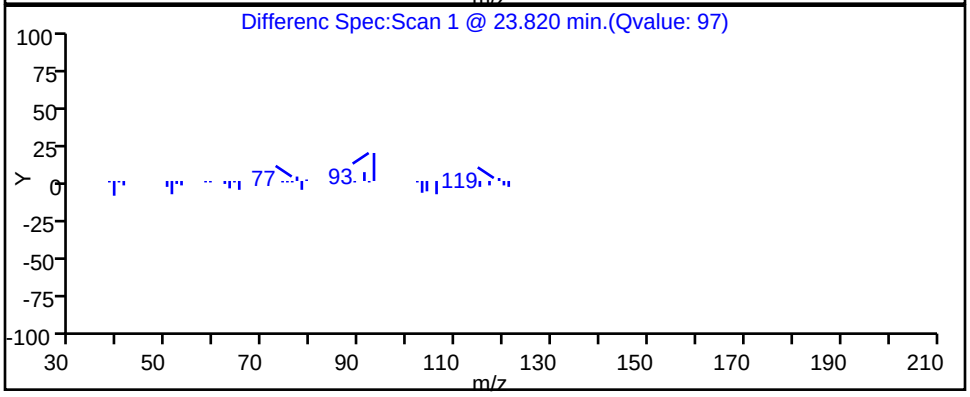












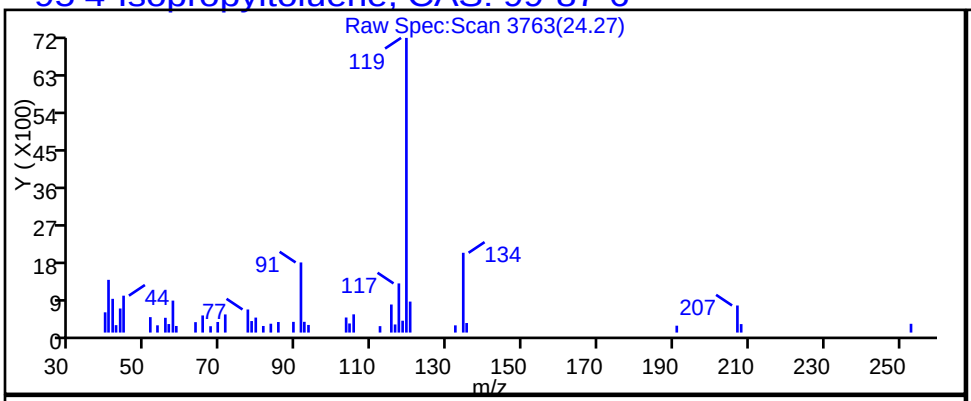
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

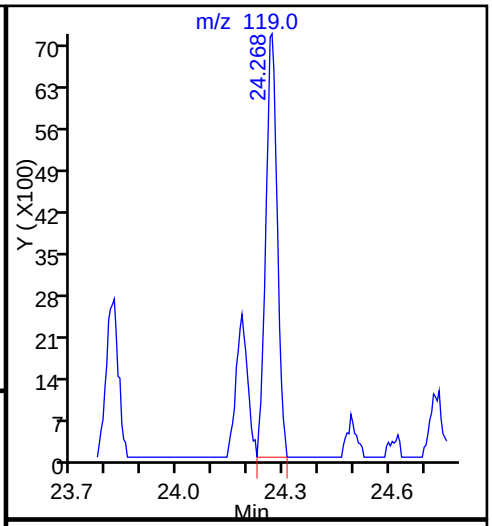
TestAmerica Burlington

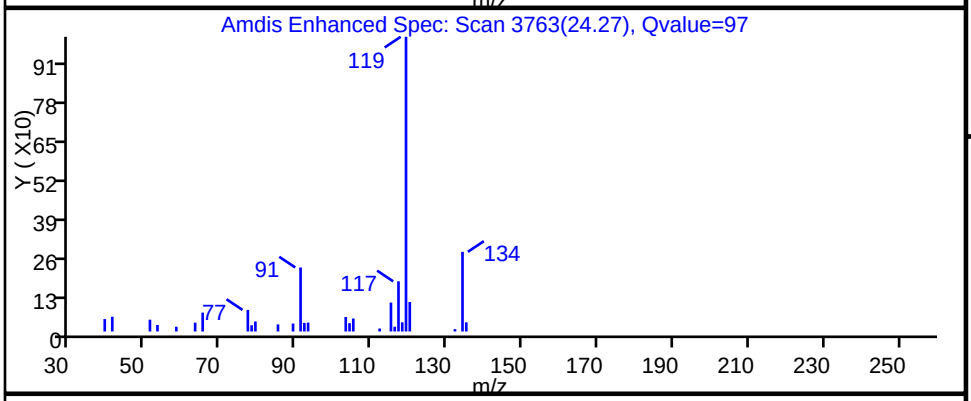
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

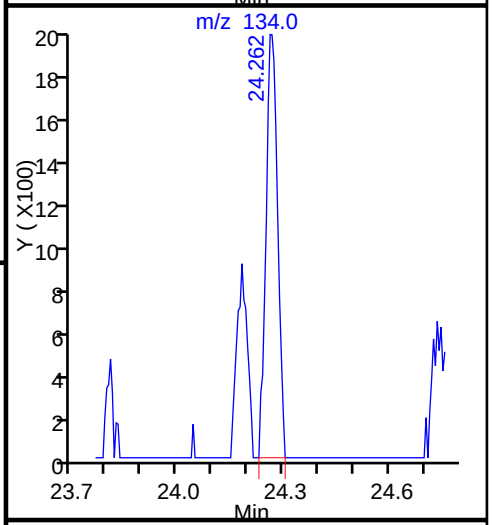
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

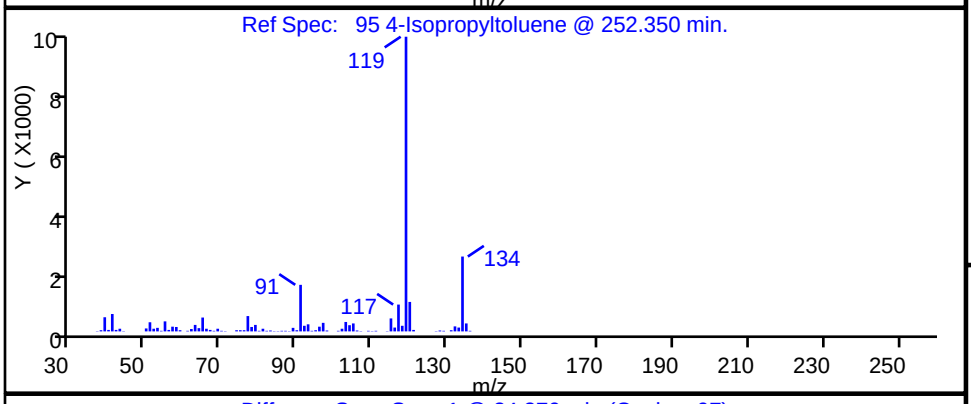
95 4-Isopropyltoluene, CAS: 99-87-6

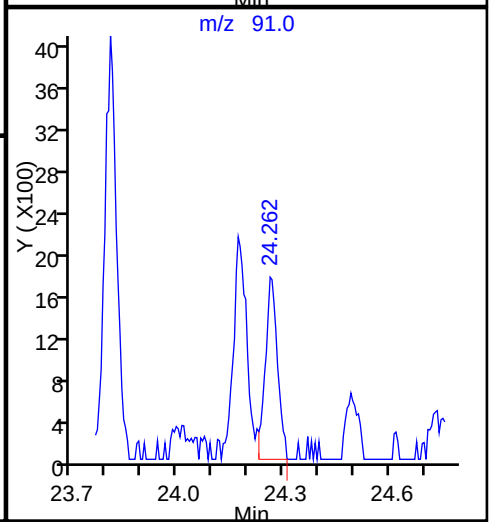


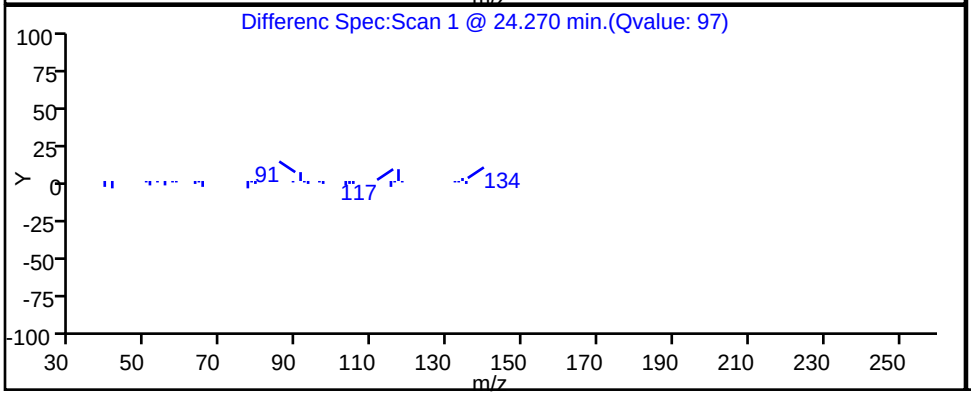












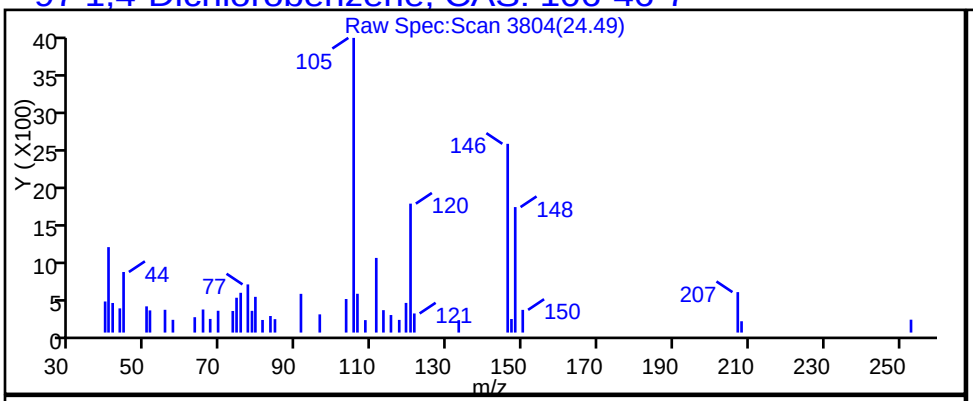
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

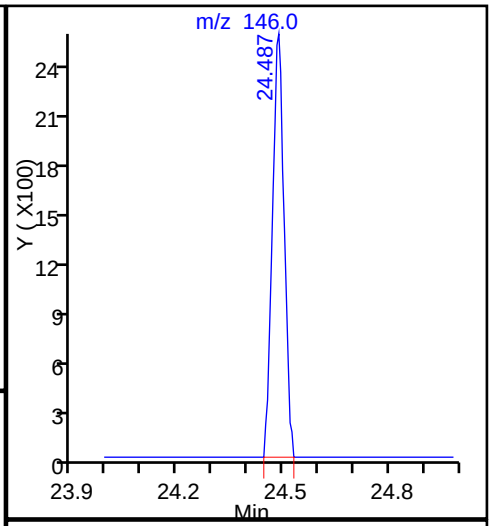
TestAmerica Burlington

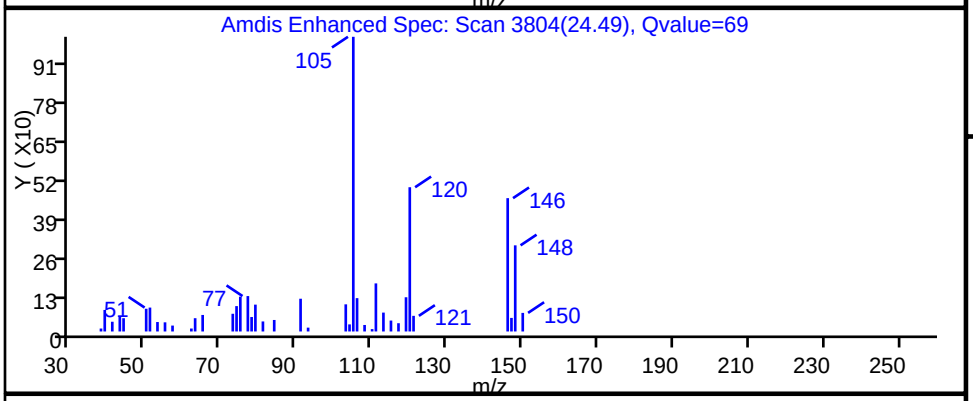
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

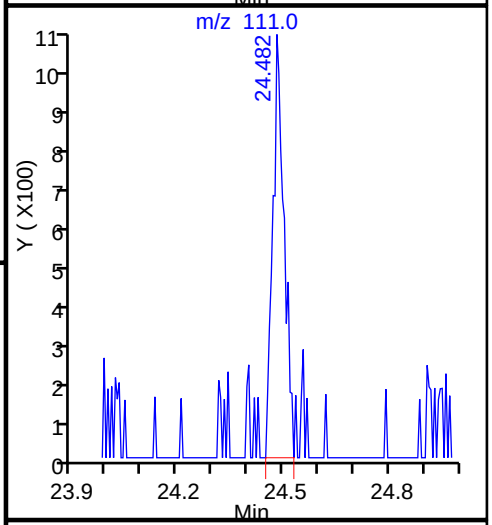
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

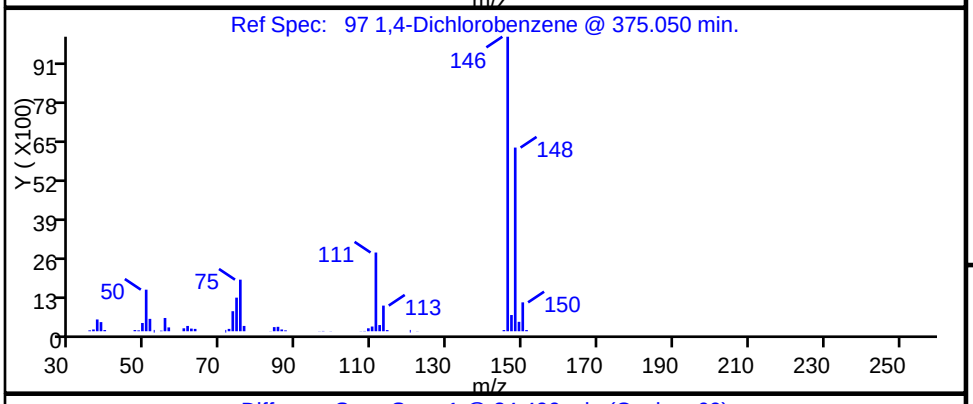
97 1,4-Dichlorobenzene, CAS: 106-46-7

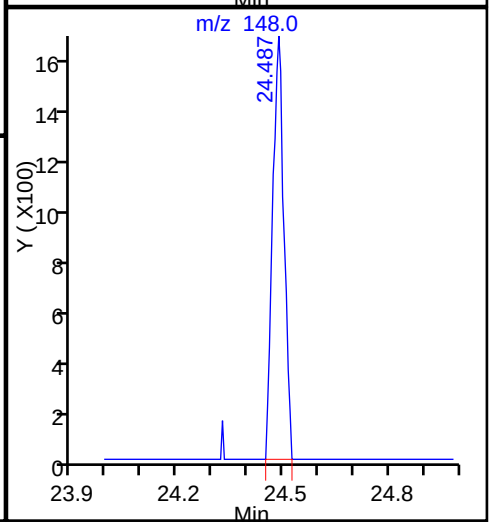


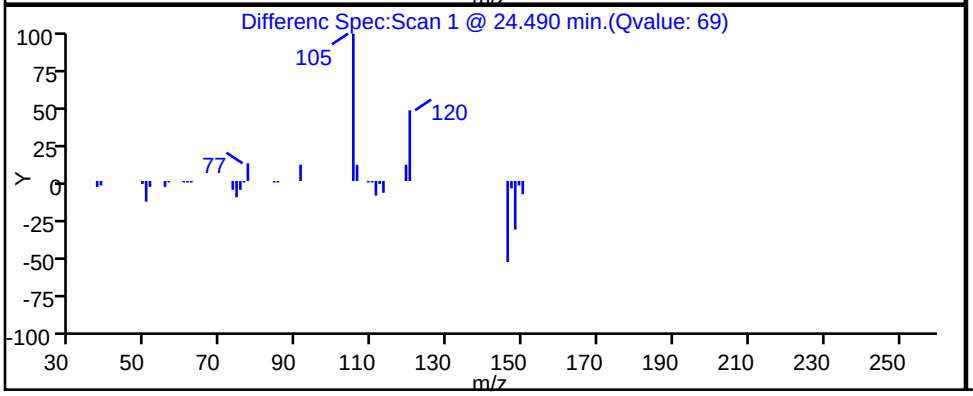












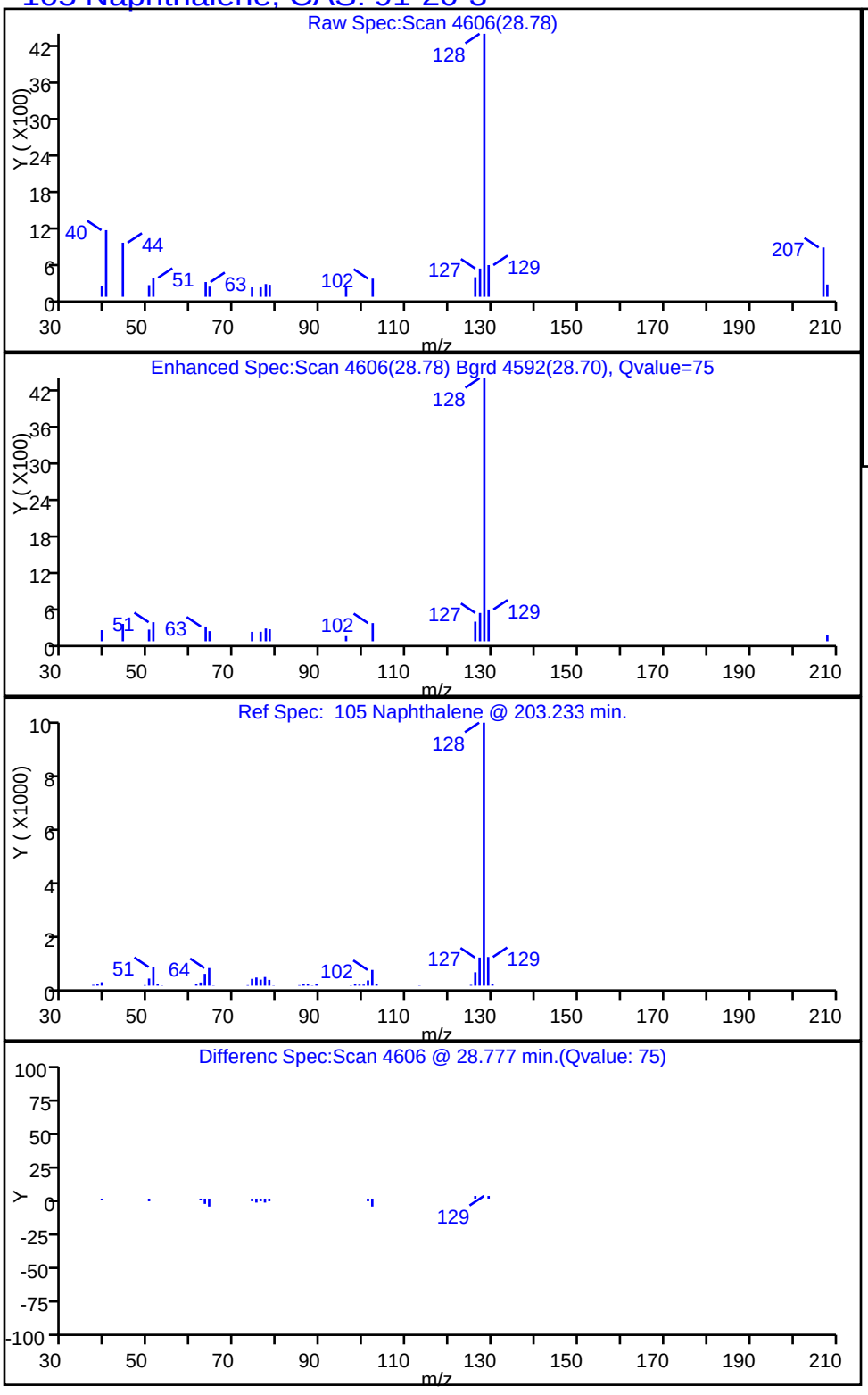
Report Date: 30-Sep-2015 14:18:15 Chrom Revision: 2.2 23-Jul-2015 08:26:08

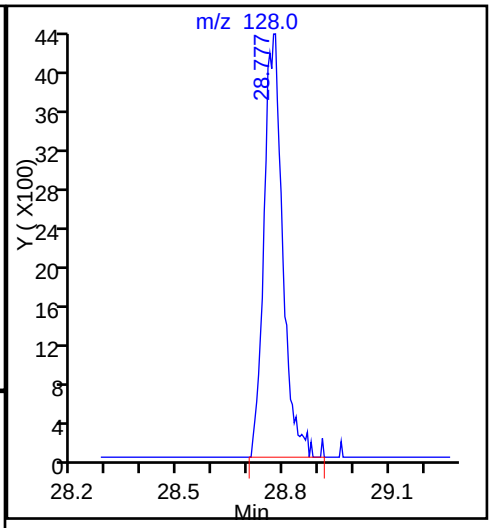
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d

Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

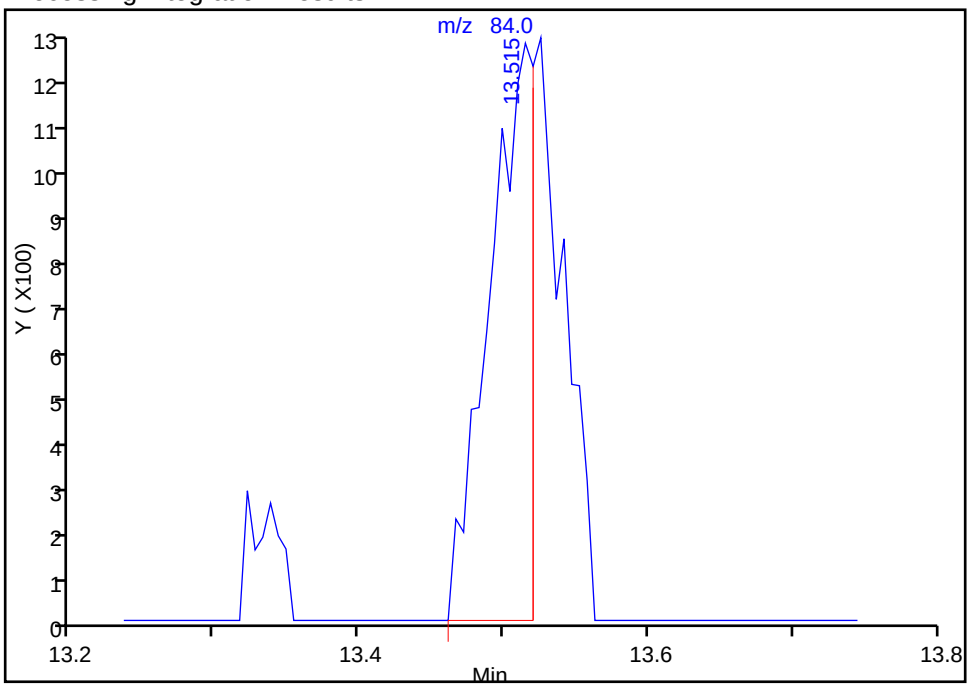
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

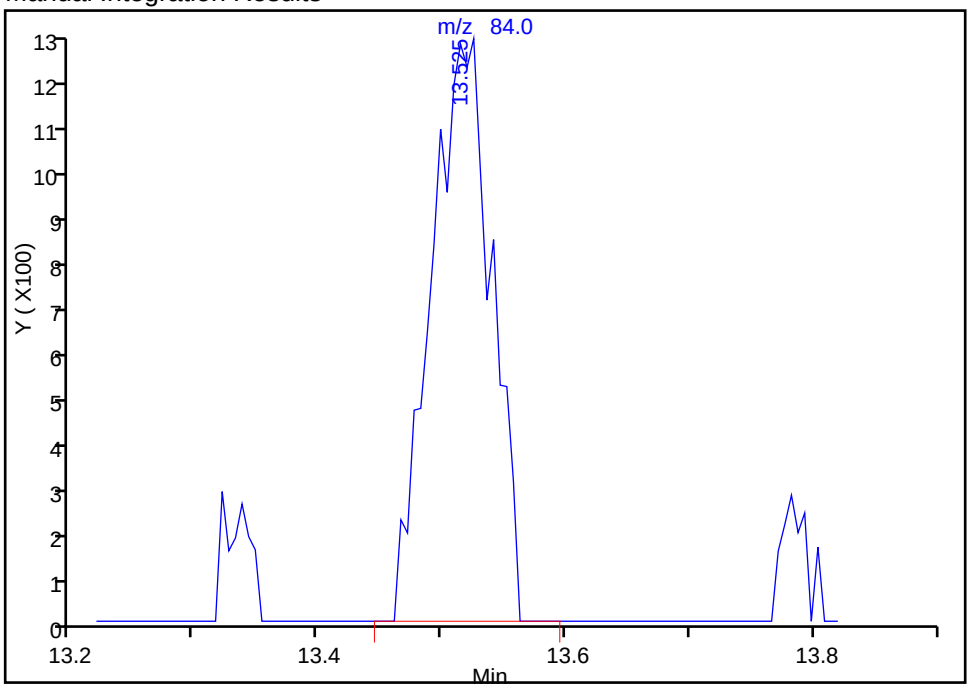
Processing Integration Results

RT: 13.51
Area: 2730
Amount: 0.165522
Amount Units: ppb v/v



Manual Integration Results

RT: 13.53
Area: 4386
Amount: 0.265926
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

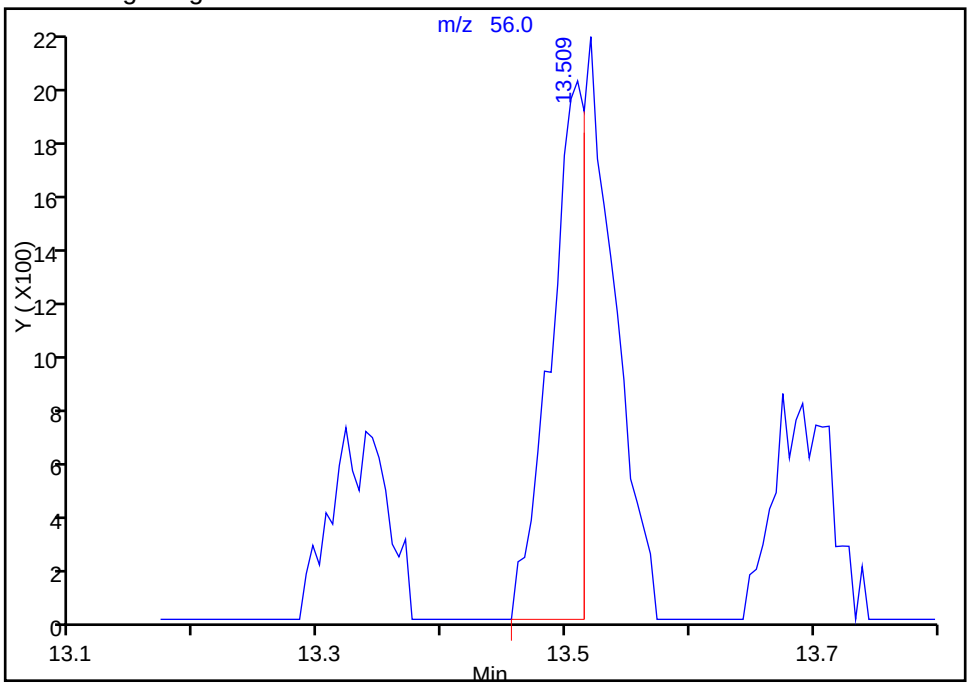
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

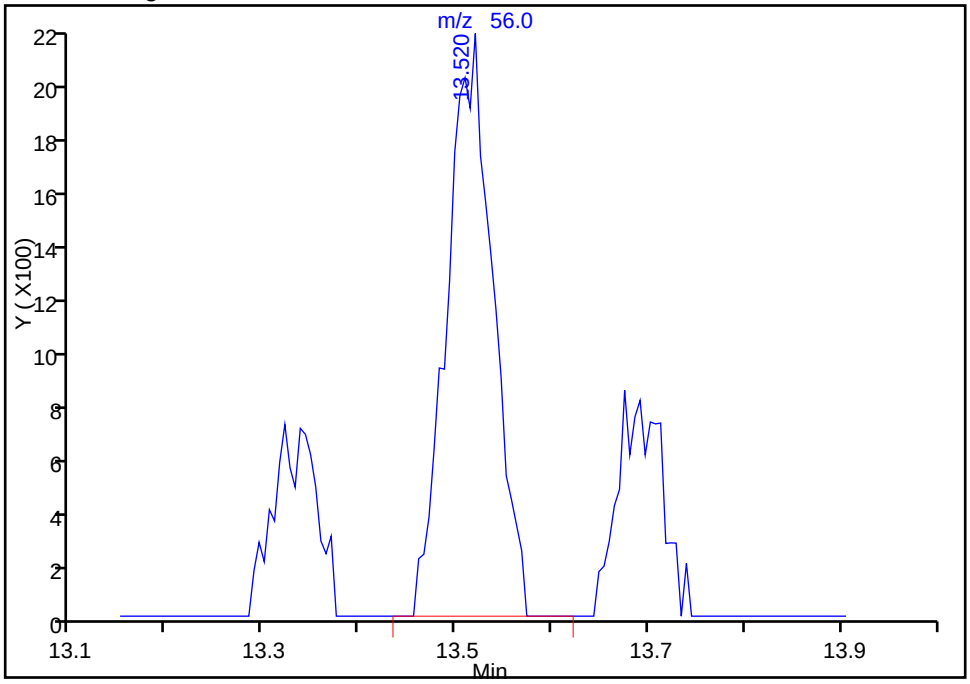
Processing Integration Results

RT: 13.51
Area: 3768
Amount: 0.165522
Amount Units: ppb v/v



Manual Integration Results

RT: 13.52
Area: 6995
Amount: 0.265926
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

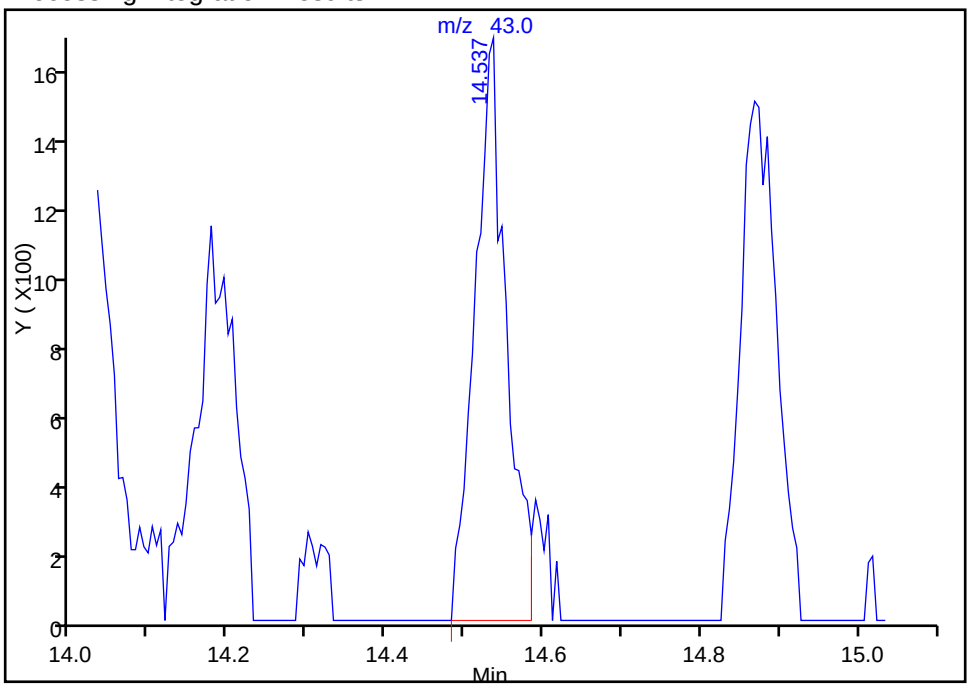
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

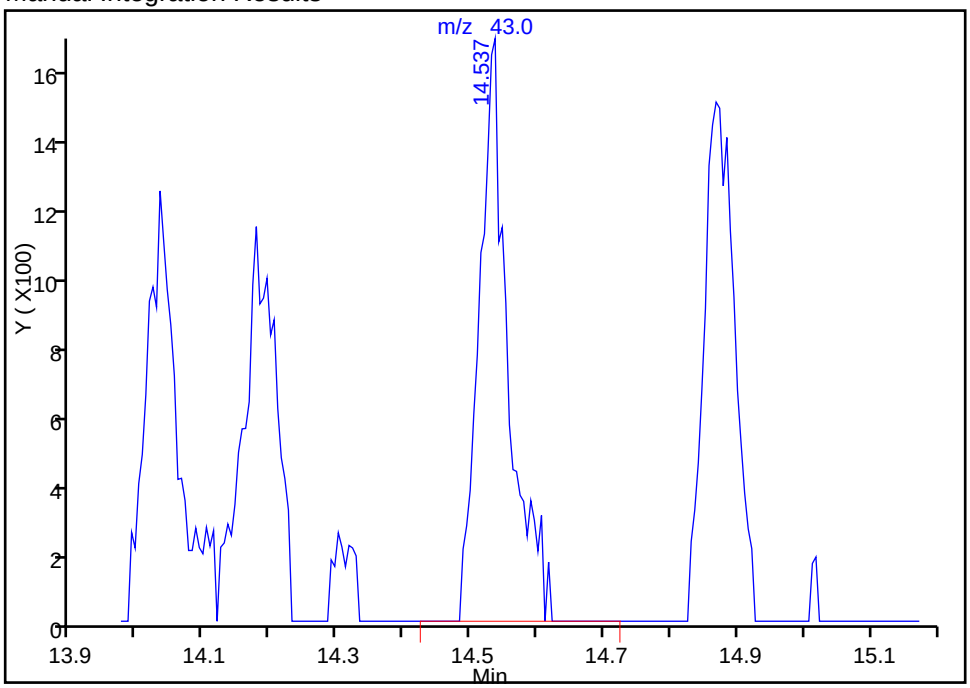
Processing Integration Results

RT: 14.54
Area: 4506
Amount: 0.323738
Amount Units: ppb v/v



Manual Integration Results

RT: 14.54
Area: 4912
Amount: 0.352908
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

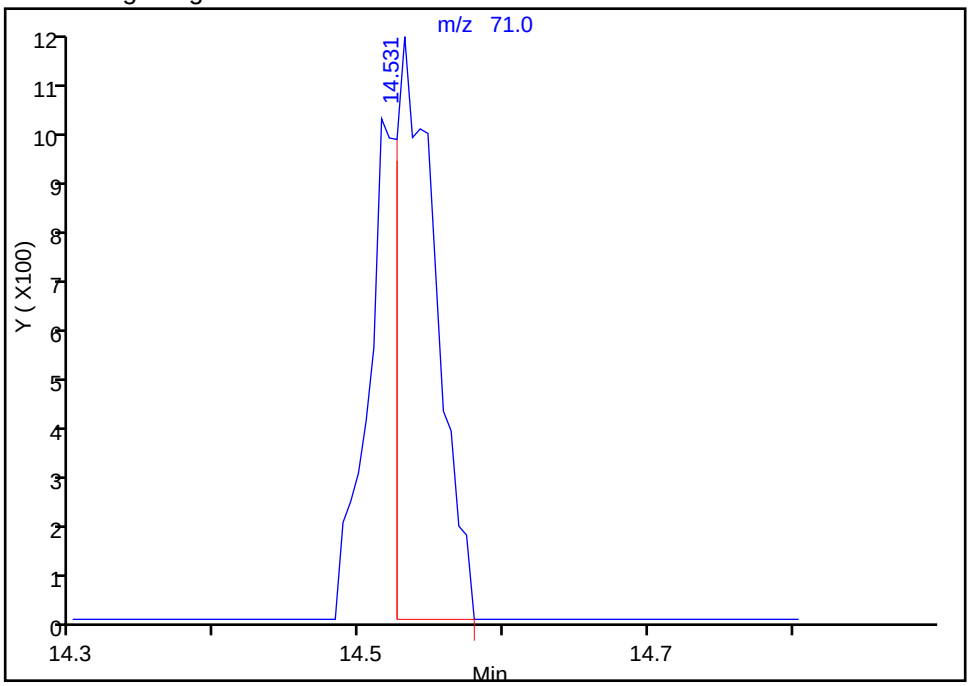
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

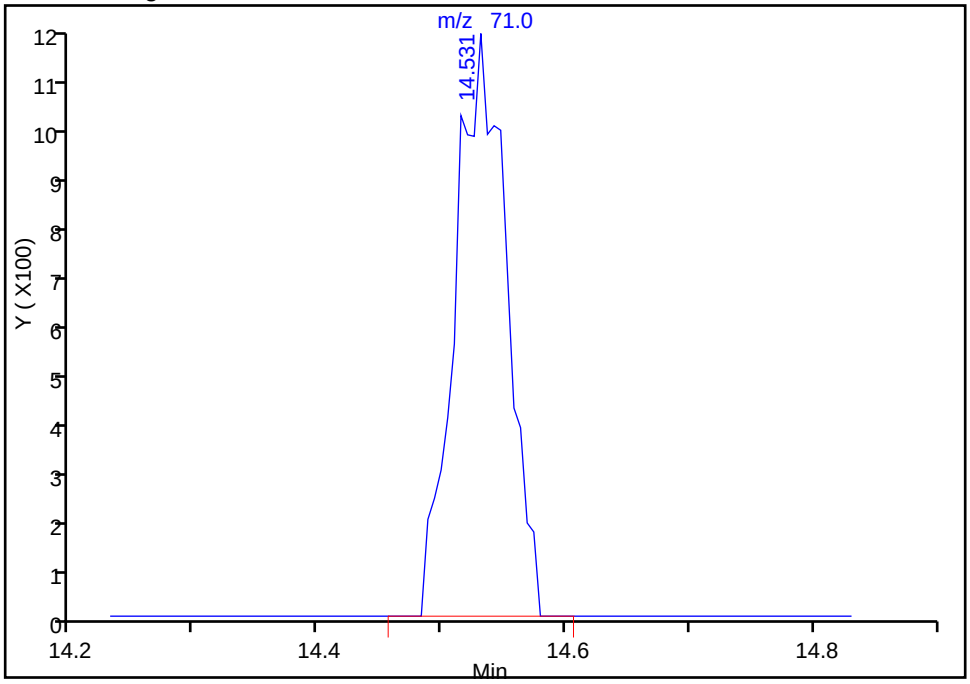
Processing Integration Results

RT: 14.53
Area: 2192
Amount: 0.323738
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 3346
Amount: 0.352908
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

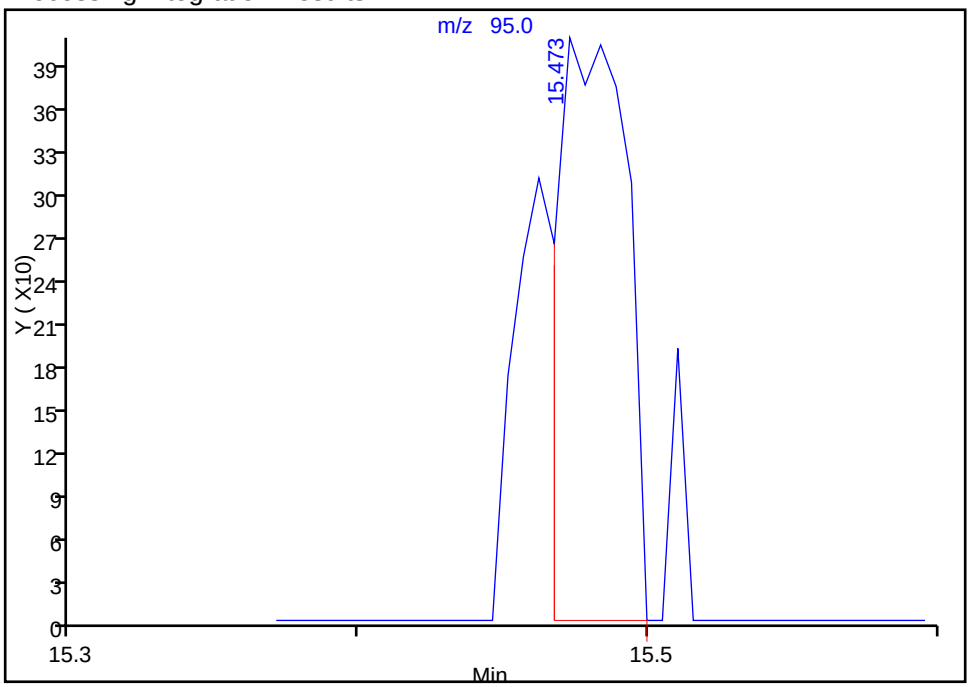
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

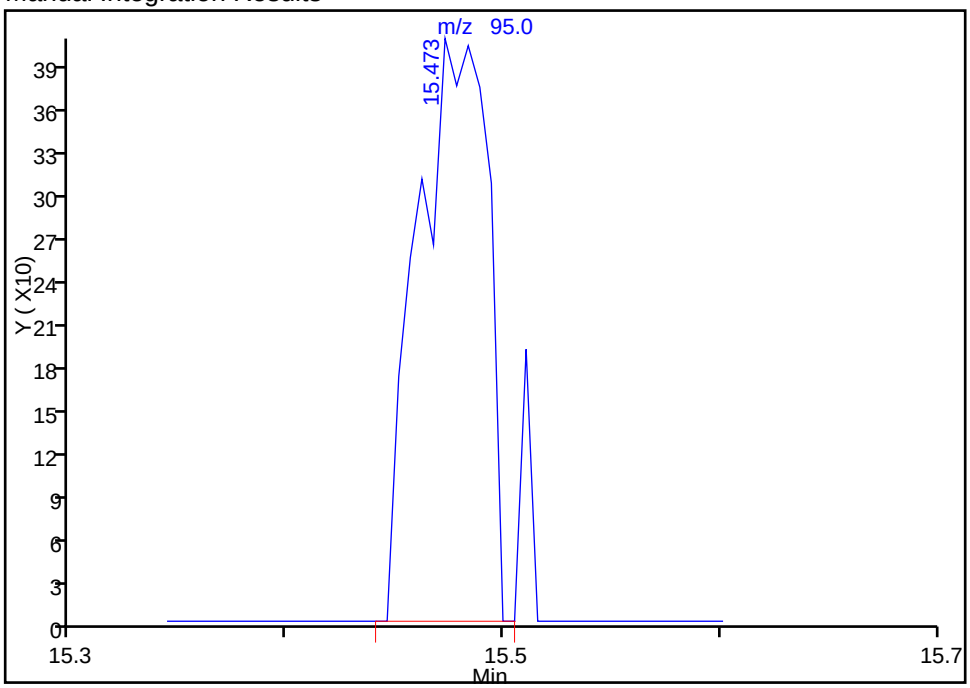
Processing Integration Results

RT: 15.47
Area: 682
Amount: 0.034470
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 918
Amount: 0.046399
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

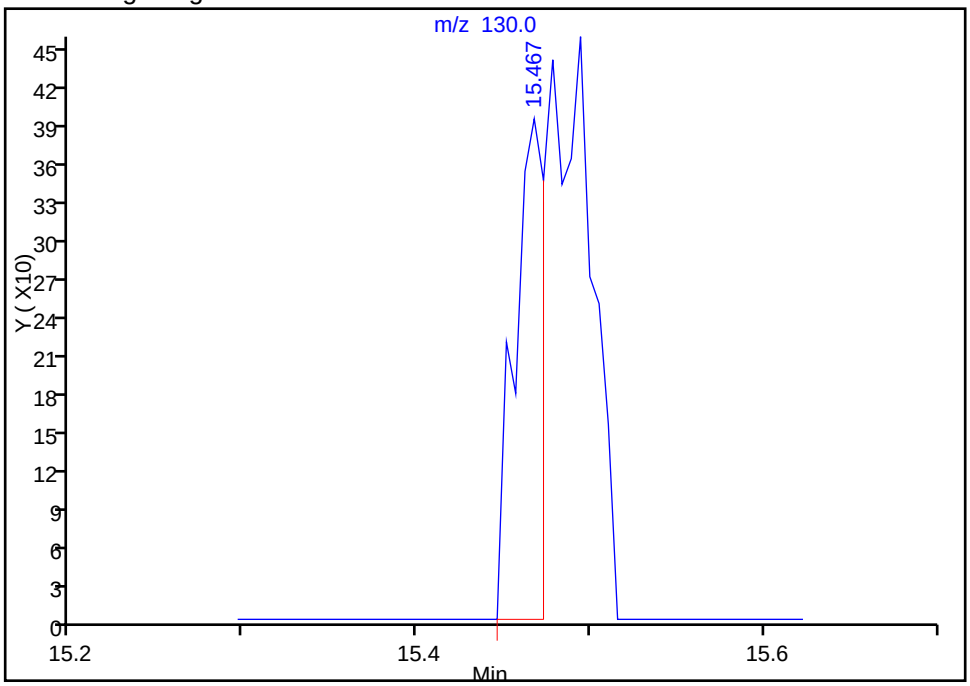
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

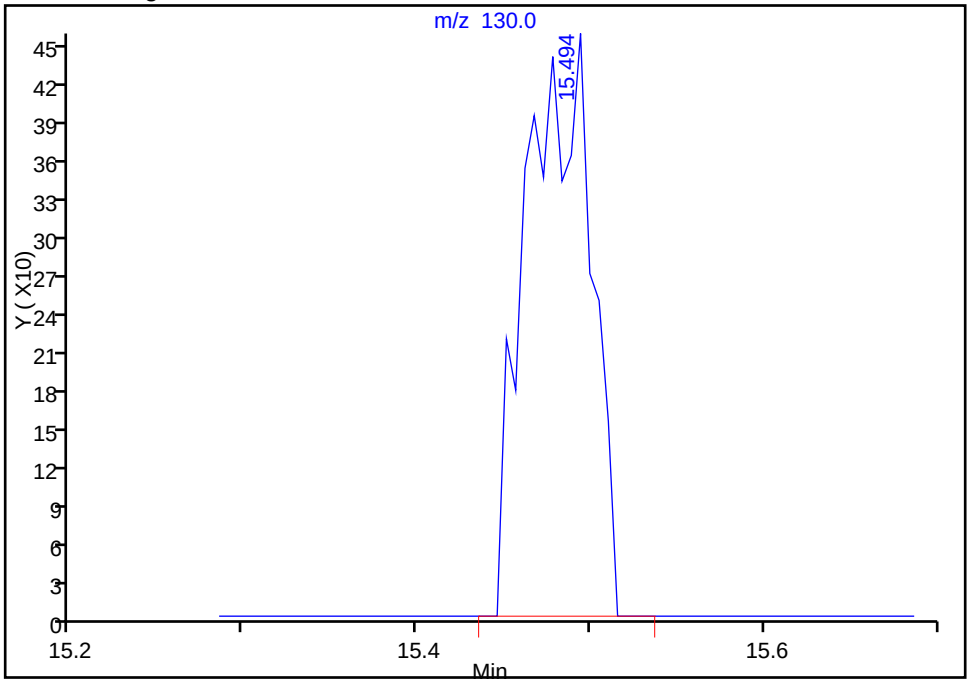
Processing Integration Results

RT: 15.47
Area: 473
Amount: 0.034470
Amount Units: ppb v/v



Manual Integration Results

RT: 15.49
Area: 1196
Amount: 0.046399
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

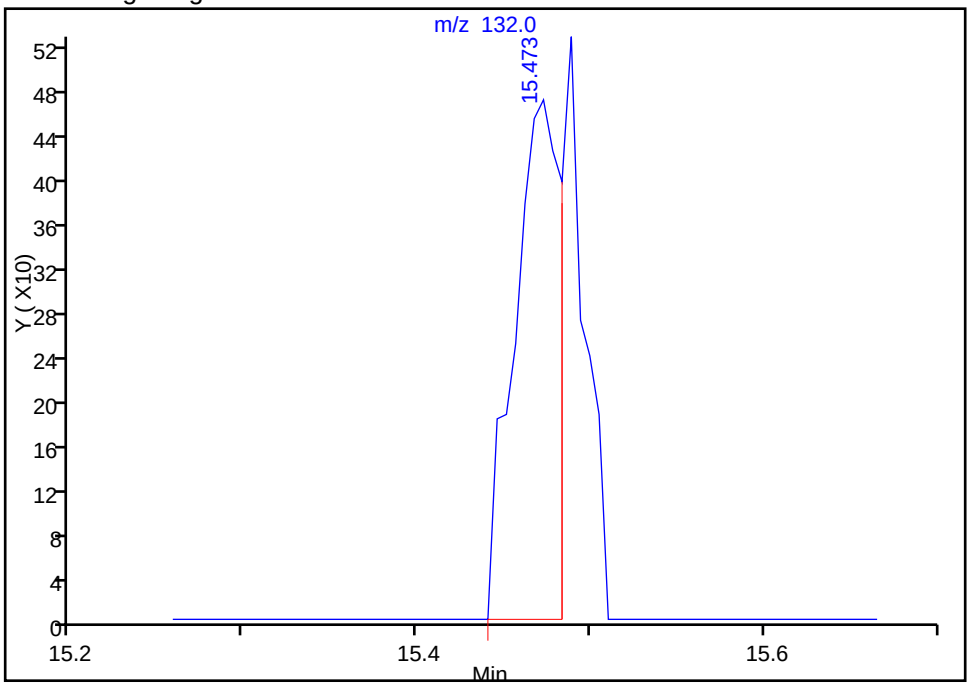
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

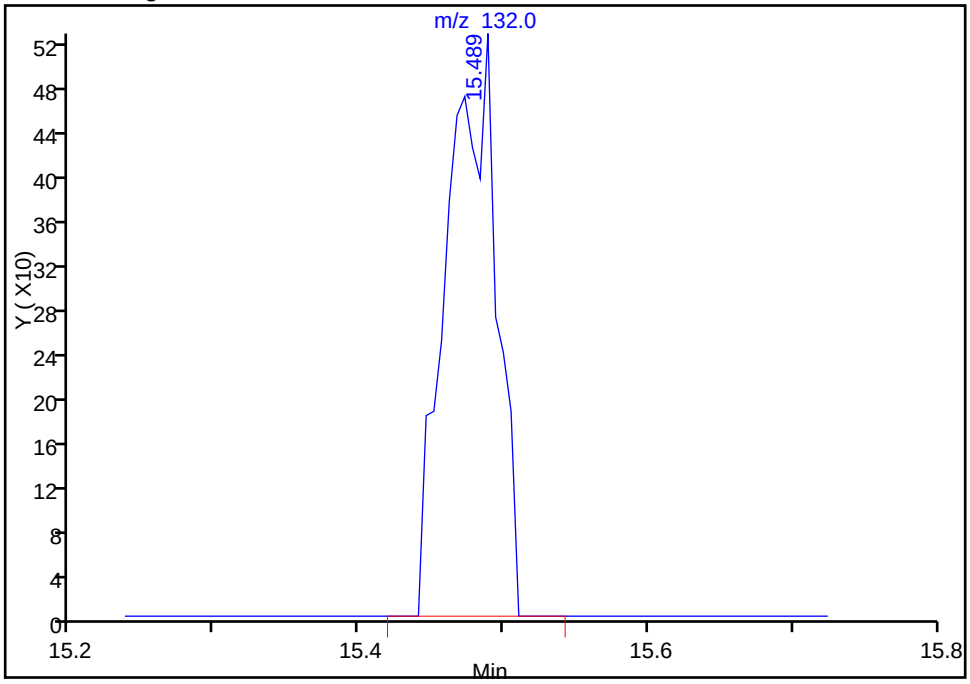
Processing Integration Results

RT: 15.47
Area: 876
Amount: 0.034470
Amount Units: ppb v/v



Manual Integration Results

RT: 15.49
Area: 1267
Amount: 0.046399
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

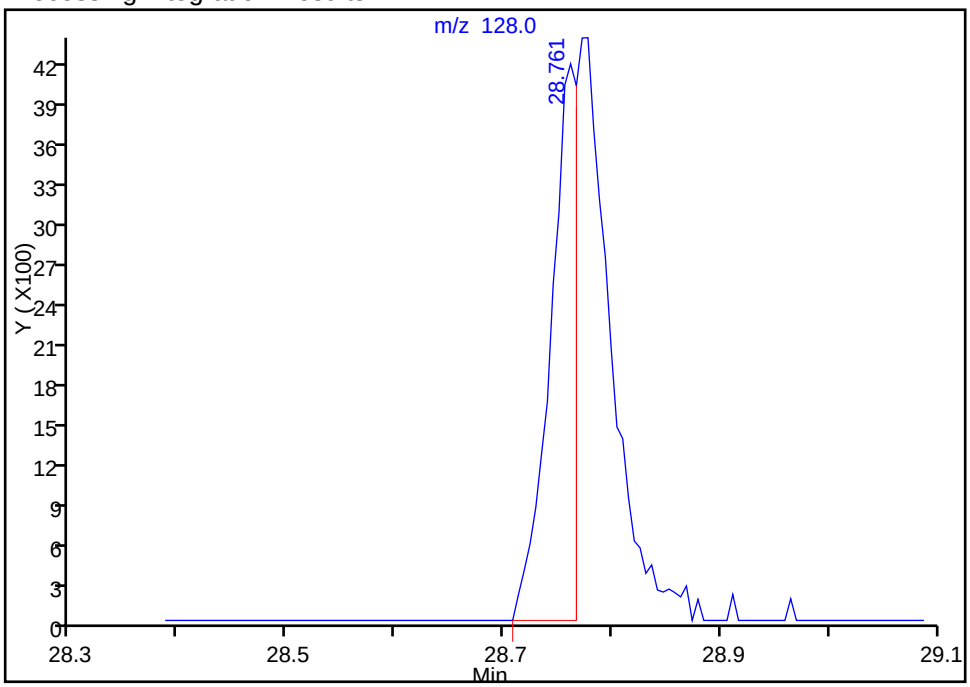
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_021.d				
Injection Date:	30-Sep-2015 03:02:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

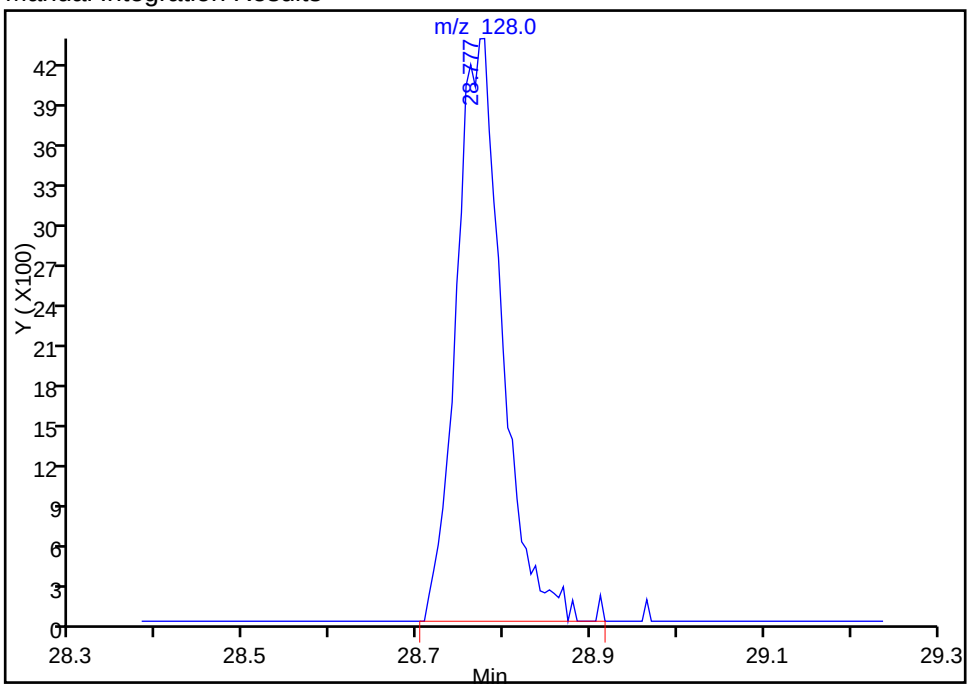
Processing Integration Results

RT: 28.76
Area: 7219
Amount: 0.058504
Amount Units: ppb v/v



Manual Integration Results

RT: 28.78
Area: 16020
Amount: 0.129828
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:05:41
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 DL Lab Sample ID: 200-29972-18 DL

Matrix: Air Lab File ID: 16024_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 99(mL) Date Analyzed: 09/30/2015 19:19

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.72	J D	2.0	0.32
75-45-6	Freon 22	86.47	0.67	J D	2.0	0.23
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.80	U	0.80	0.15
74-87-3	Chloromethane	50.49	0.65	J D	2.0	0.37
106-97-8	n-Butane	58.12	5.4	D	2.0	0.31
75-01-4	Vinyl chloride	62.50	0.16	U	0.16	0.13
106-99-0	1,3-Butadiene	54.09	0.80	U	0.80	0.36
74-83-9	Bromomethane	94.94	0.80	U	0.80	0.22
75-00-3	Chloroethane	64.52	2.0	U	2.0	0.34
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.80	U	0.80	0.18
75-69-4	Trichlorofluoromethane	137.37	63	D	0.80	0.15
76-13-1	Freon TF	187.38	0.80	U	0.80	0.30
75-35-4	1,1-Dichloroethene	96.94	0.79	J D	0.80	0.14
67-64-1	Acetone	58.08	14	J D	20	3.4
67-63-0	Isopropyl alcohol	60.10	7.0	J D	20	3.9
75-15-0	Carbon disulfide	76.14	0.33	J D	2.0	0.17
107-05-1	3-Chloropropene	76.53	2.0	U	2.0	0.27
75-09-2	Methylene Chloride	84.93	2.0	U	2.0	0.72
75-65-0	tert-Butyl alcohol	74.12	20	U	20	3.4
1634-04-4	Methyl tert-butyl ether	88.15	0.80	U	0.80	0.36
156-60-5	trans-1,2-Dichloroethene	96.94	0.80	U	0.80	0.17
110-54-3	n-Hexane	86.17	0.59	J D	0.80	0.22
75-34-3	1,1-Dichloroethane	98.96	0.80	U	0.80	0.10
78-93-3	Methyl Ethyl Ketone	72.11	1.4	J D	2.0	0.21
156-59-2	cis-1,2-Dichloroethene	96.94	0.80	U	0.80	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.80	U	0.80	0.33
109-99-9	Tetrahydrofuran	72.11	20	U	20	5.6
71-55-6	1,1,1-Trichloroethane	133.41	0.76	J D	0.80	0.18
110-82-7	Cyclohexane	84.16	0.80	U	0.80	0.16
56-23-5	Carbon tetrachloride	153.81	0.16	U	0.16	0.13
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	J D	0.80	0.16
71-43-2	Benzene	78.11	0.57	J D	0.80	0.17
107-06-2	1,2-Dichloroethane	98.96	0.67	J D	0.80	0.16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 DL | Lab Sample ID: 200-29972-18 DL

Matrix: Air | Lab File ID: 16024_011.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 99(mL) | Date Analyzed: 09/30/2015 19:19

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.80	U	0.80	0.16
79-01-6	Trichloroethene	131.39	0.16	U	0.16	0.16
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.80	U	0.80	0.11
123-91-1	1,4-Dioxane	88.11	20	U	20	2.2
75-27-4	Bromodichloromethane	163.83	0.80	U	0.80	0.12
10061-01-5	cis-1,3-Dichloropropene	110.97	0.80	U	0.80	0.092
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	1.2	D	0.80	0.37
10061-02-6	trans-1,3-Dichloropropene	110.97	0.80	U	0.80	0.14
79-00-5	1,1,2-Trichloroethane	133.41	0.80	U	0.80	0.16
127-18-4	Tetrachloroethene	165.83	0.80	U	0.80	0.092
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	0.80	U	0.80	0.18
106-93-4	1,2-Dibromoethane	187.87	0.80	U	0.80	0.16
108-90-7	Chlorobenzene	112.56	0.80	U	0.80	0.20
100-41-4	Ethylbenzene	106.17	0.19	J D	0.80	0.13
179601-23-1	m,p-Xylene	106.17	0.63	J D	2.0	0.28
95-47-6	Xylene, o-	106.17	0.22	J D	0.80	0.15
1330-20-7	Xylene (total)	106.17	0.85	J D	2.8	0.15
100-42-5	Styrene	104.15	0.80	U	0.80	0.17
75-25-2	Bromoform	252.75	0.80	U	0.80	0.22
98-82-8	Cumene	120.19	0.80	U	0.80	0.12
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.80	U	0.80	0.18
103-65-1	n-Propylbenzene	120.19	0.80	U	0.80	0.17
622-96-8	4-Ethyltoluene	120.20	0.80	U	0.80	0.18
108-67-8	1,3,5-Trimethylbenzene	120.20	0.80	U	0.80	0.16
95-49-8	2-Chlorotoluene	126.59	0.80	U	0.80	0.13
98-06-6	tert-Butylbenzene	134.22	0.80	U	0.80	0.18
95-63-6	1,2,4-Trimethylbenzene	120.20	0.23	J D	0.80	0.17
135-98-8	sec-Butylbenzene	134.22	0.80	U	0.80	0.18
99-87-6	4-Isopropyltoluene	134.22	0.80	U	0.80	0.15
541-73-1	1,3-Dichlorobenzene	147.00	0.80	U	0.80	0.22
106-46-7	1,4-Dichlorobenzene	147.00	0.80	U	0.80	0.23

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 DL Lab Sample ID: 200-29972-18 DL

Matrix: Air Lab File ID: 16024_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 99(mL) Date Analyzed: 09/30/2015 19:19

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.80*	*U*	*0.80*	*0.21*
104-51-8	*n-Butylbenzene*	*134.22*	*0.80*	*U*	*0.80*	*0.19*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.80*	*U*	*0.80*	*0.22*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*2.0*	*U*	*2.0*	*0.27*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.80*	*U*	*0.80*	*0.33*
91-20-3	*Naphthalene*	*128.17*	*2.0*	*U*	*2.0*	*0.23*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 DL Lab Sample ID: 200-29972-18 DL

Matrix: Air Lab File ID: 16024_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 99(mL) Date Analyzed: 09/30/2015 19:19

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.6	J D	9.9	1.6
75-45-6	Freon 22	86.47	2.4	J D	7.1	0.81
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	5.6	U	5.6	1.1
74-87-3	Chloromethane	50.49	1.3	J D	4.1	0.77
106-97-8	n-Butane	58.12	13	D	4.8	0.74
75-01-4	Vinyl chloride	62.50	0.41	U	0.41	0.33
106-99-0	1,3-Butadiene	54.09	1.8	U	1.8	0.79
74-83-9	Bromomethane	94.94	3.1	U	3.1	0.87
75-00-3	Chloroethane	64.52	5.3	U	5.3	0.90
593-60-2	Bromoethene(Vinyl Bromide)	106.96	3.5	U	3.5	0.77
75-69-4	Trichlorofluoromethane	137.37	360	D	4.5	0.85
76-13-1	Freon TF	187.38	6.1	U	6.1	2.3
75-35-4	1,1-Dichloroethene	96.94	3.1	J D	3.2	0.57
67-64-1	Acetone	58.08	33	J D	48	8.2
67-63-0	Isopropyl alcohol	60.10	17	J D	49	9.6
75-15-0	Carbon disulfide	76.14	1.0	J D	6.2	0.54
107-05-1	3-Chloropropene	76.53	6.3	U	6.3	0.85
75-09-2	Methylene Chloride	84.93	6.9	U	6.9	2.5
75-65-0	tert-Butyl alcohol	74.12	61	U	61	10
1634-04-4	Methyl tert-butyl ether	88.15	2.9	U	2.9	1.3
156-60-5	trans-1,2-Dichloroethene	96.94	3.2	U	3.2	0.68
110-54-3	n-Hexane	86.17	2.1	J D	2.8	0.76
75-34-3	1,1-Dichloroethane	98.96	3.2	U	3.2	0.40
78-93-3	Methyl Ethyl Ketone	72.11	4.2	J D	5.9	0.61
156-59-2	cis-1,2-Dichloroethene	96.94	3.2	U	3.2	0.56
540-59-0	1,2-Dichloroethene, Total	96.94	6.3	U	6.3	0.56
67-66-3	Chloroform	119.38	3.9	U	3.9	1.6
109-99-9	Tetrahydrofuran	72.11	59	U	59	17
71-55-6	1,1,1-Trichloroethane	133.41	4.1	J D	4.4	1.0
110-82-7	Cyclohexane	84.16	2.8	U	2.8	0.54
56-23-5	Carbon tetrachloride	153.81	1.0	U	1.0	0.81
540-84-1	2,2,4-Trimethylpentane	114.23	1.2	J D	3.7	0.73
71-43-2	Benzene	78.11	1.8	J D	2.6	0.54
107-06-2	1,2-Dichloroethane	98.96	2.7	J D	3.2	0.66

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 DL | Lab Sample ID: 200-29972-18 DL

Matrix: Air | Lab File ID: 16024_011.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 99(mL) | Date Analyzed: 09/30/2015 19:19

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	3.3	U	3.3	0.66
79-01-6	Trichloroethene	131.39	0.86	U	0.86	0.84
80-62-6	Methyl methacrylate	100.12	8.2	U	8.2	0.66
78-87-5	1,2-Dichloropropane	112.99	3.7	U	3.7	0.50
123-91-1	1,4-Dioxane	88.11	72	U	72	8.1
75-27-4	Bromodichloromethane	163.83	5.4	U	5.4	0.80
10061-01-5	cis-1,3-Dichloropropene	110.97	3.6	U	3.6	0.42
108-10-1	methyl isobutyl ketone	100.16	8.2	U	8.2	0.82
108-88-3	Toluene	92.14	4.6	D	3.0	1.4
10061-02-6	trans-1,3-Dichloropropene	110.97	3.6	U	3.6	0.62
79-00-5	1,1,2-Trichloroethane	133.41	4.4	U	4.4	0.85
127-18-4	Tetrachloroethene	165.83	5.4	U	5.4	0.62
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	8.2	U	8.2	0.93
124-48-1	Dibromochloromethane	208.29	6.8	U	6.8	1.5
106-93-4	1,2-Dibromoethane	187.87	6.1	U	6.1	1.2
108-90-7	Chlorobenzene	112.56	3.7	U	3.7	0.90
100-41-4	Ethylbenzene	106.17	0.82	J D	3.5	0.57
179601-23-1	m,p-Xylene	106.17	2.7	J D	8.7	1.2
95-47-6	Xylene, o-	106.17	0.94	J D	3.5	0.64
1330-20-7	Xylene (total)	106.17	3.7	J D	12	0.64
100-42-5	Styrene	104.15	3.4	U	3.4	0.73
75-25-2	Bromoform	252.75	8.3	U	8.3	2.3
98-82-8	Cumene	120.19	3.9	U	3.9	0.59
79-34-5	1,1,2,2-Tetrachloroethane	167.85	5.5	U	5.5	1.2
103-65-1	n-Propylbenzene	120.19	3.9	U	3.9	0.85
622-96-8	4-Ethyltoluene	120.20	3.9	U	3.9	0.87
108-67-8	1,3,5-Trimethylbenzene	120.20	3.9	U	3.9	0.77
95-49-8	2-Chlorotoluene	126.59	4.1	U	4.1	0.68
98-06-6	tert-Butylbenzene	134.22	4.4	U	4.4	0.97
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1	J D	3.9	0.85
135-98-8	sec-Butylbenzene	134.22	4.4	U	4.4	0.97
99-87-6	4-Isopropyltoluene	134.22	4.4	U	4.4	0.81
541-73-1	1,3-Dichlorobenzene	147.00	4.8	U	4.8	1.3
106-46-7	1,4-Dichlorobenzene	147.00	4.8	U	4.8	1.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA09-092315 DL Lab Sample ID: 200-29972-18 DL

Matrix: Air Lab File ID: 16024_011.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 99(mL) Date Analyzed: 09/30/2015 19:19

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*4.1*	*U*	*4.1*	*1.1*
104-51-8	*n-Butylbenzene*	*134.22*	*4.4*	*U*	*4.4*	*1.0*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*4.8*	*U*	*4.8*	*1.3*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*15*	*U*	*15*	*2.0*
87-68-3	*Hexachlorobutadiene*	*260.76*	*8.5*	*U*	*8.5*	*3.5*
91-20-3	*Naphthalene*	*128.17*	*10*	*U*	*10*	*1.2*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d
Lims ID: 200-29972-A-18 Lab Sample ID: 200-29972-18
Client ID: FR-IA09-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 19:19:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 4.0000
Sample Info: 200-0016024-011
Misc. Info.: 29972-18
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:21:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.415	4.431	-0.016	98	9977	0.1808	
3 Chlorodifluoromethane	51	4.485	4.501	-0.016	95	3748	0.1685	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50	5.009	5.009	0.000	96	1742	0.1616	
6 Butane	43	5.282	5.292	-0.010	96	21179	1.35	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64		6.678				ND	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.293	7.299	-0.006	98	991508	15.8	
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	85	3546	0.1972	
22 Acetone	43	8.946	8.941	0.005	98	67192	3.46	
23 Carbon disulfide	76	9.160	9.171	-0.011	94	3600	0.0831	
24 Isopropyl alcohol	45	9.225	9.219	0.005	96	27163	1.75	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.931	9.931	0.000	78	1881	0.1319	M
28 2-Methyl-2-propanol	59		10.113				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57	10.856	10.856	0.000	90	2777	0.1468	
34 1,1-Dichloroethane	63		11.429				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.664	12.654	0.010	95	3228	0.3590	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	70	173799	10.0	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.510				ND	
44 1,1,1-Trichloroethane	97	13.536	13.531	0.005	93	9410	0.1892	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.788	13.782	0.006	86	955	0.0175	
46 Isooctane	57	14.173	14.184	-0.011	95	3969	0.0632	
47 Benzene	78	14.253	14.253	0.000	94	7696	0.1419	
48 1,2-Dichloroethane	62	14.408	14.419	-0.011	95	4374	0.1680	
49 n-Heptane	43		14.531				ND	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	801127	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.190				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.624				ND	
65 Toluene	92	17.961	17.955	0.006	92	12795	0.3031	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.865				ND	
68 Tetrachloroethene	166		18.988				ND	
69 2-Hexanone	43		19.261				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.2106	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	729817	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.898	20.898	0.000	95	4483	0.0475	
78 m-Xylene & p-Xylene	106	21.101	21.106	-0.005	0	5969	0.1565	
79 o-Xylene	106	21.802	21.796	0.006	94	2033	0.0541	M
80 Styrene	104	21.844	21.839	0.005	81	1742	0.0296	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105		22.347				ND	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91		22.973				ND	
88 4-Ethyltoluene	105		23.139				ND	
89 2-Chlorotoluene	91		23.177				ND	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	60	2272	0.0206	M
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	93	6366	0.0584	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.268	24.262	0.006	95	3253	0.0242	
96 1,3-Dichlorobenzene	146		24.332				ND	
97 1,4-Dichlorobenzene	146		24.482				ND	
98 Benzyl chloride	91		24.707				ND	
100 n-Butylbenzene	91		24.921				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.130				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.762	28.767	-0.005	95	2698	0.0195	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

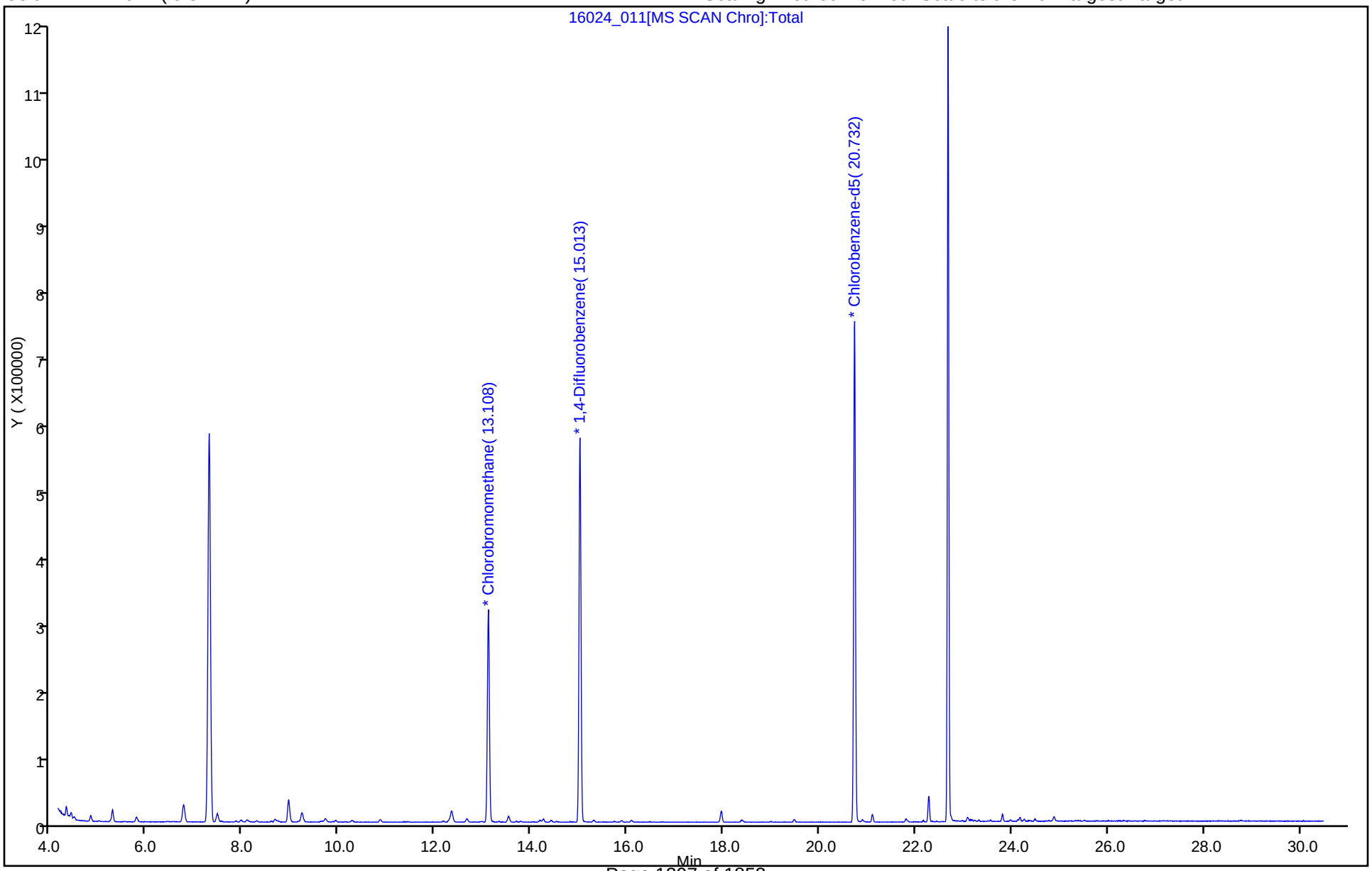
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18	Worklist Smp#:	11
Client ID:	FR-IA09-092315				
Purge Vol:	200.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	10
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

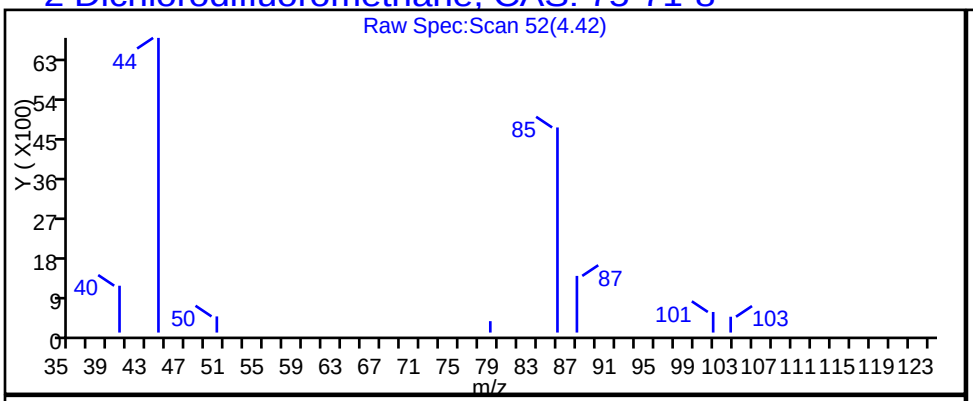


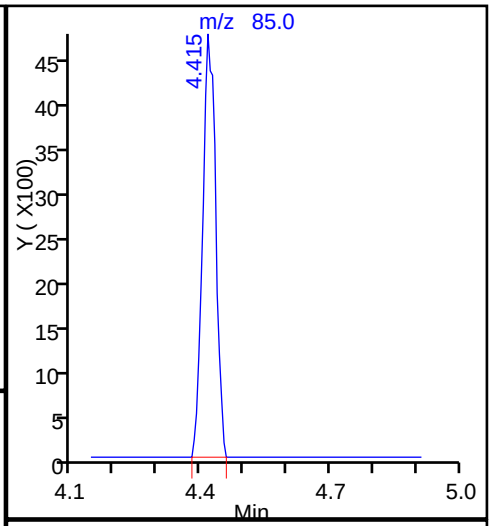
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

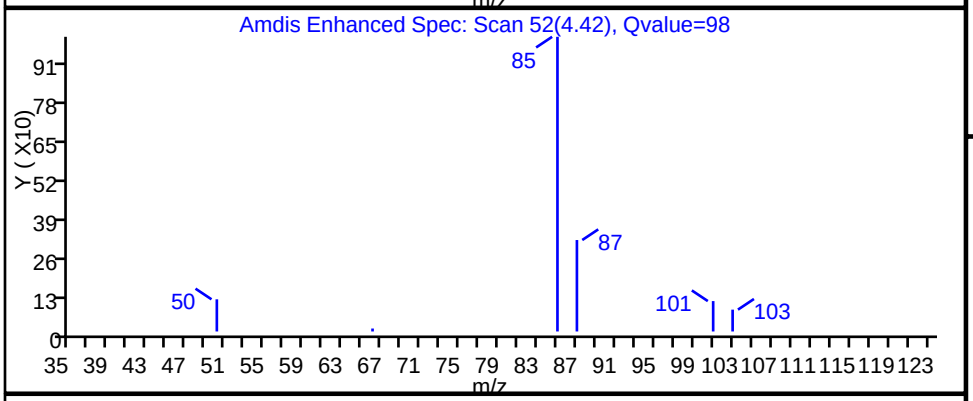
TestAmerica Burlington

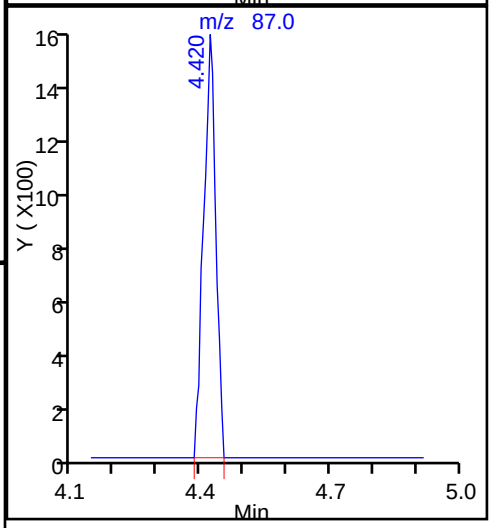
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

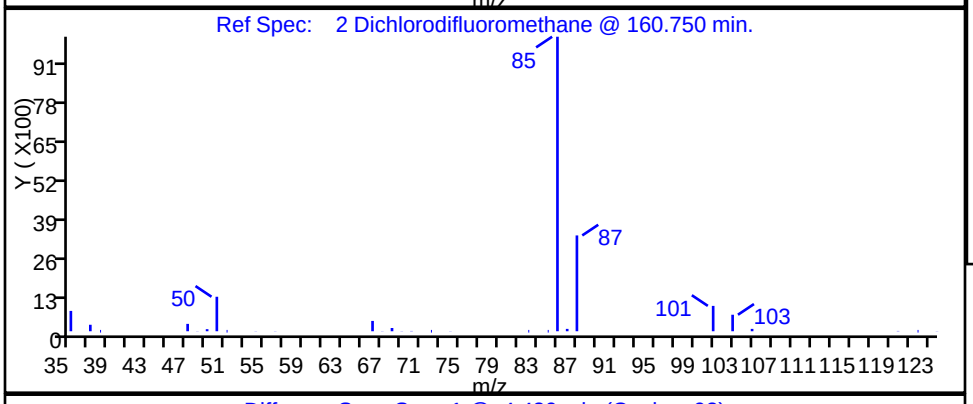
2 Dichlorodifluoromethane, CAS: 75-71-8

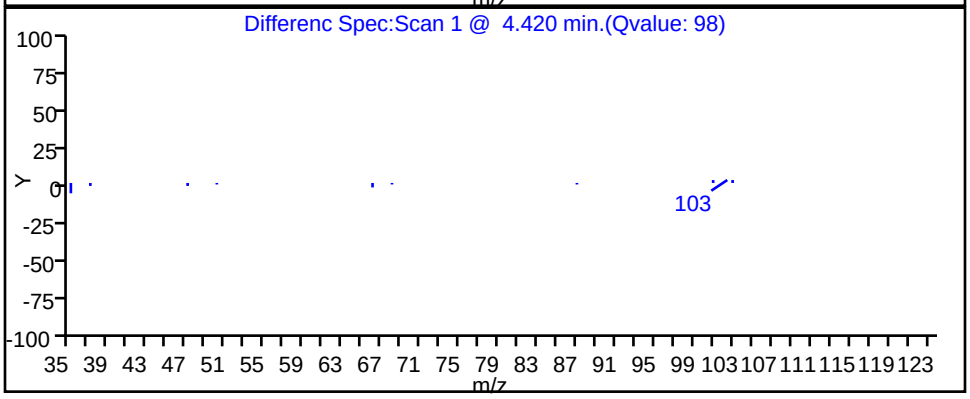












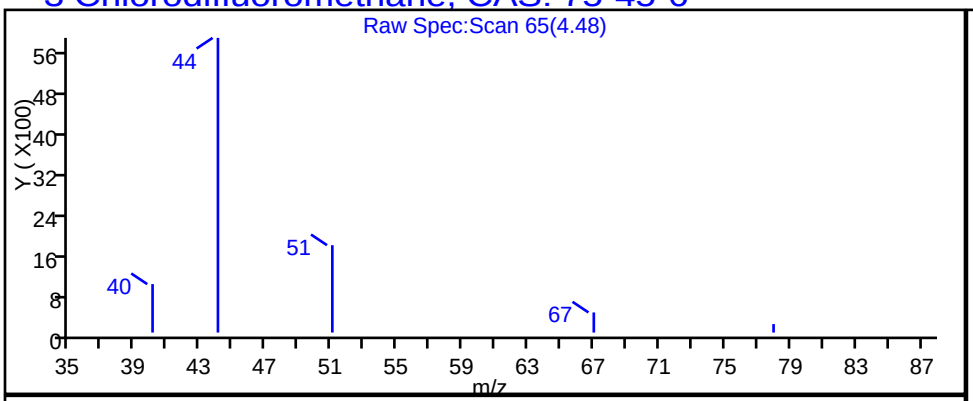
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

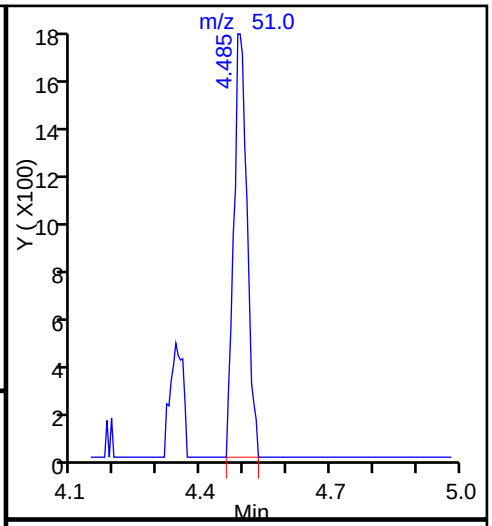
TestAmerica Burlington

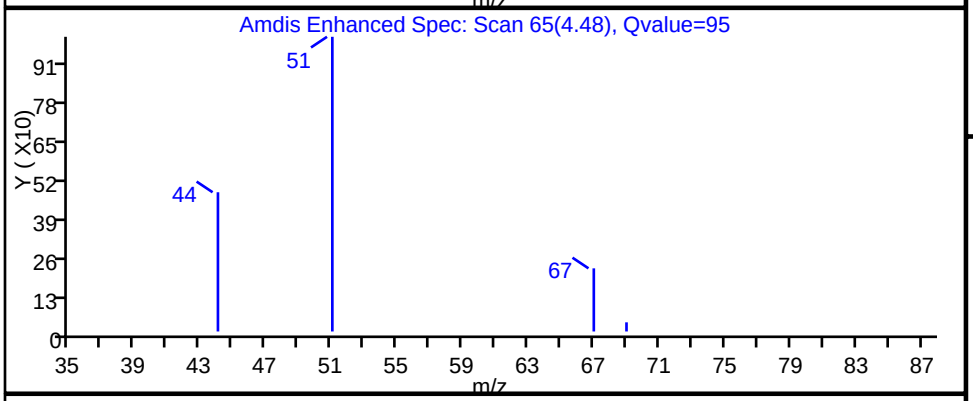
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

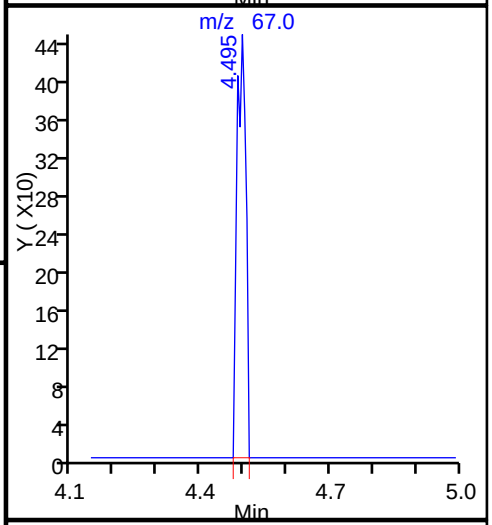
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

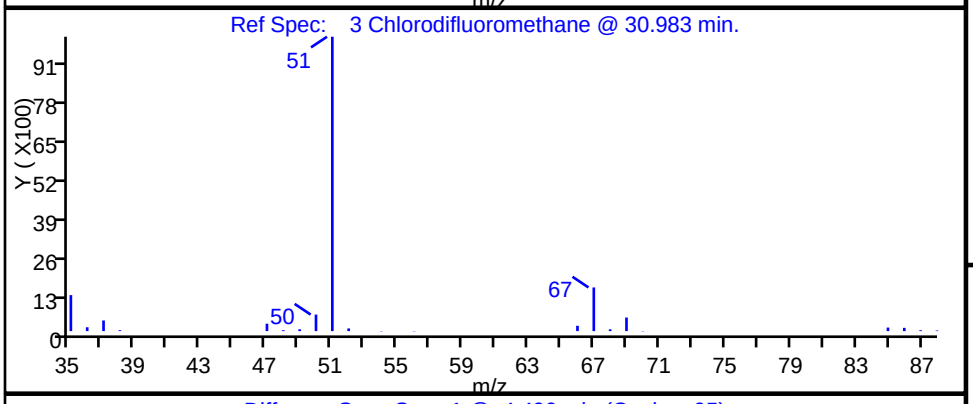
3 Chlorodifluoromethane, CAS: 75-45-6

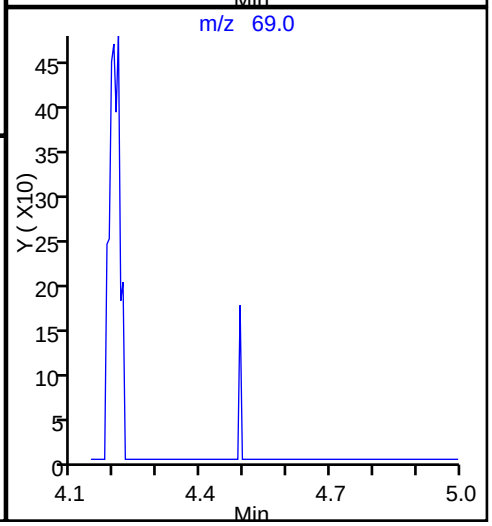


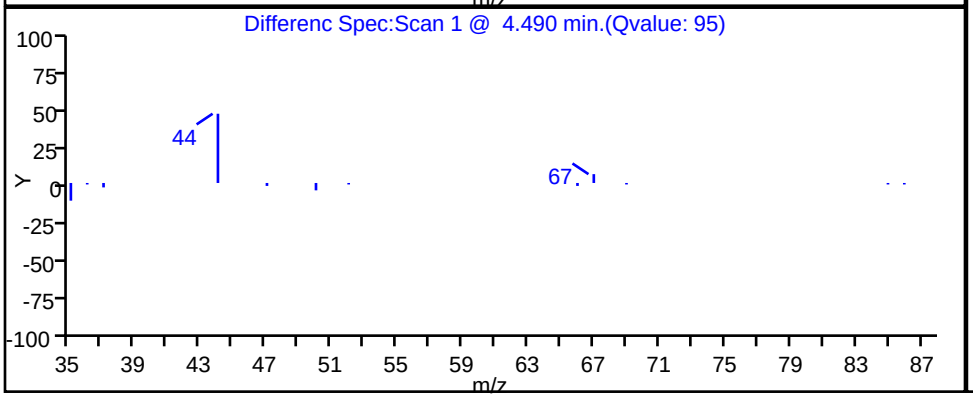












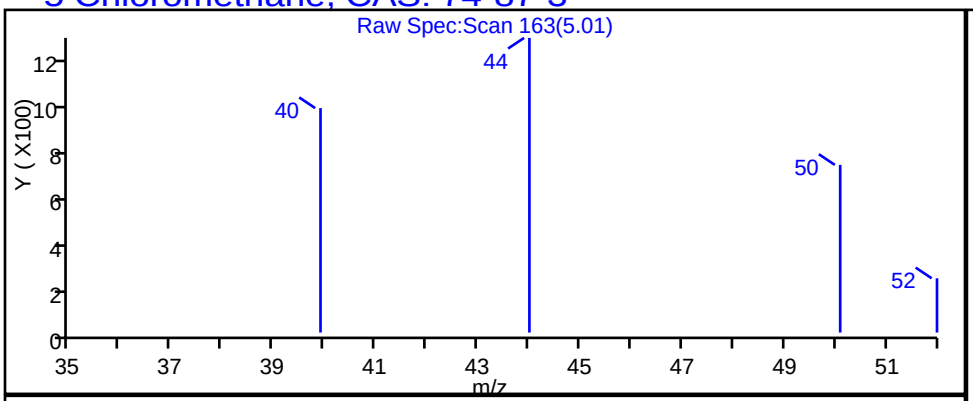
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

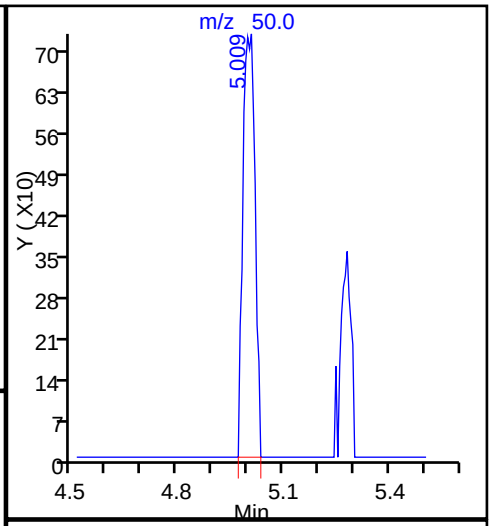
TestAmerica Burlington

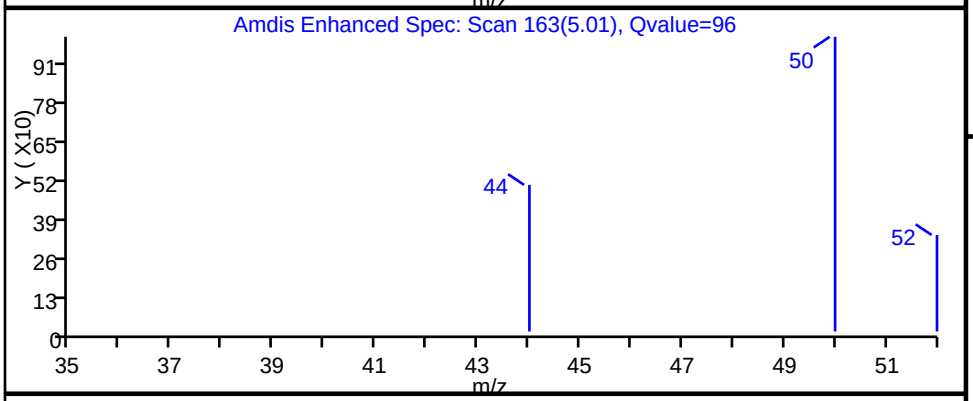
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

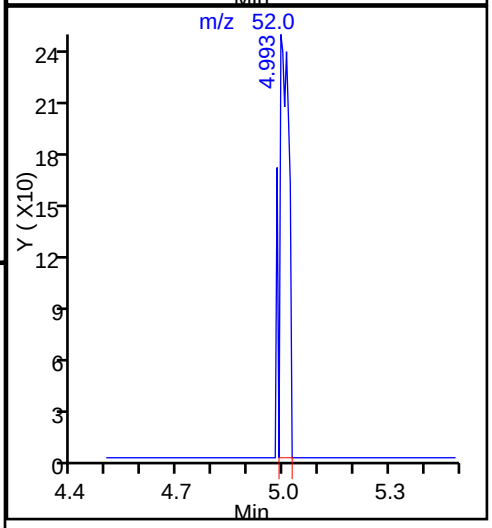
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

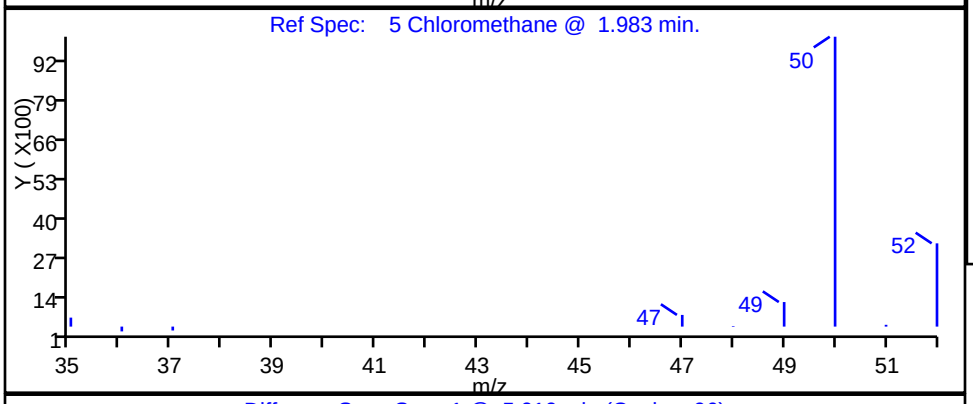
5 Chloromethane, CAS: 74-87-3

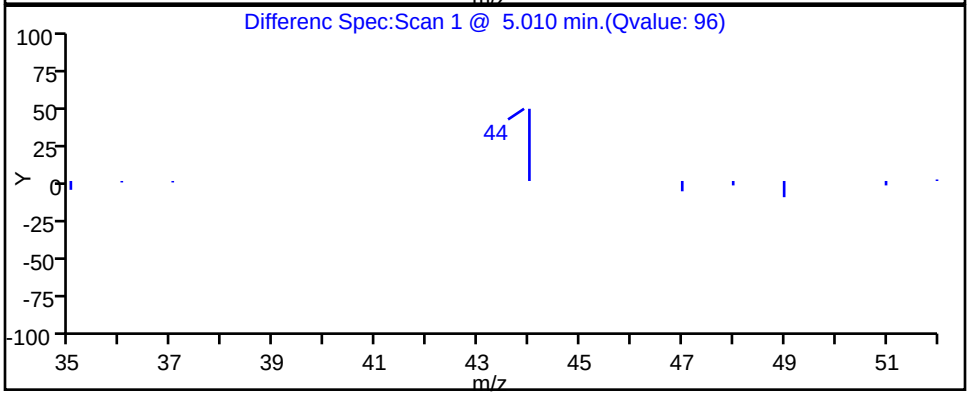












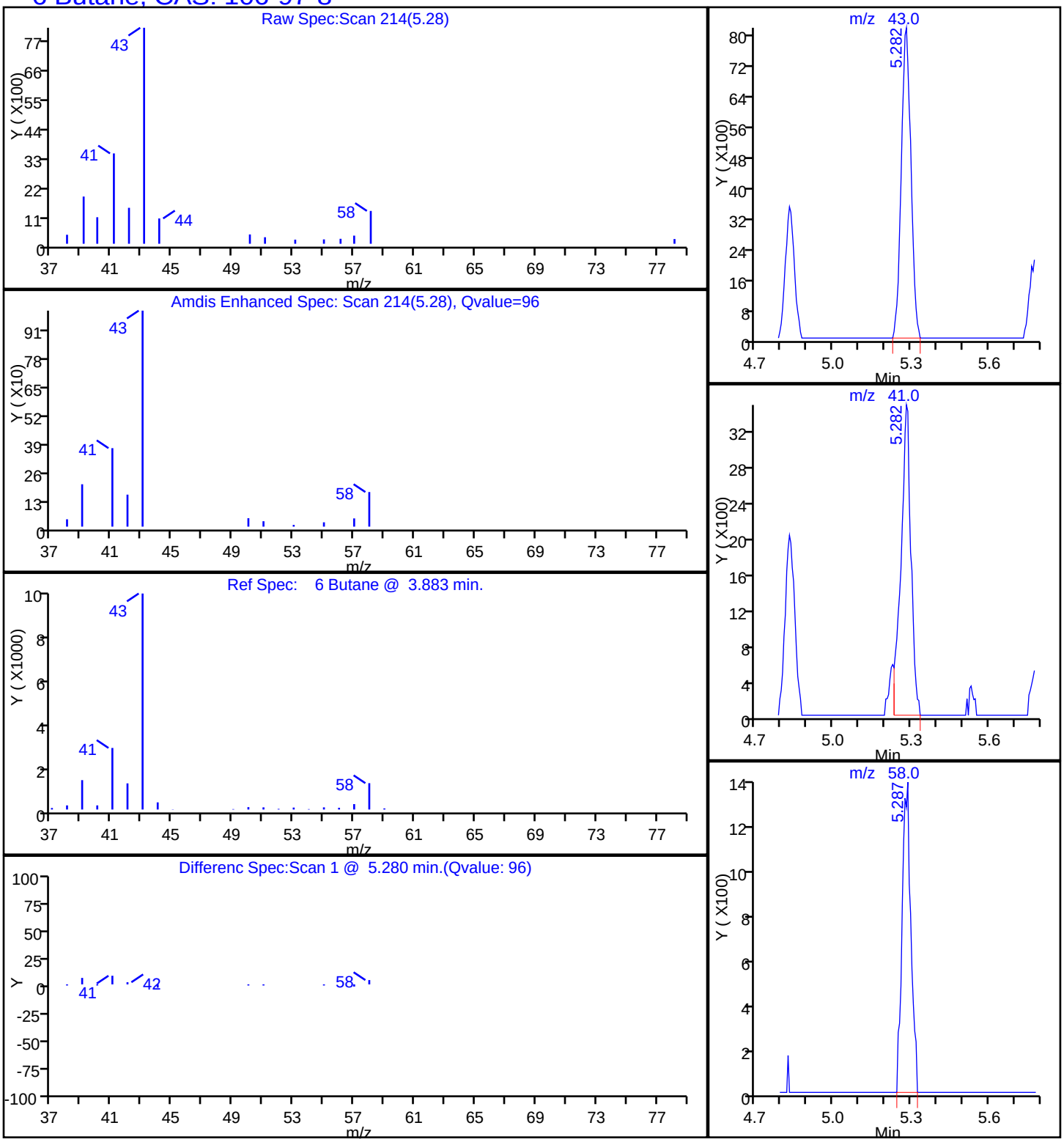
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

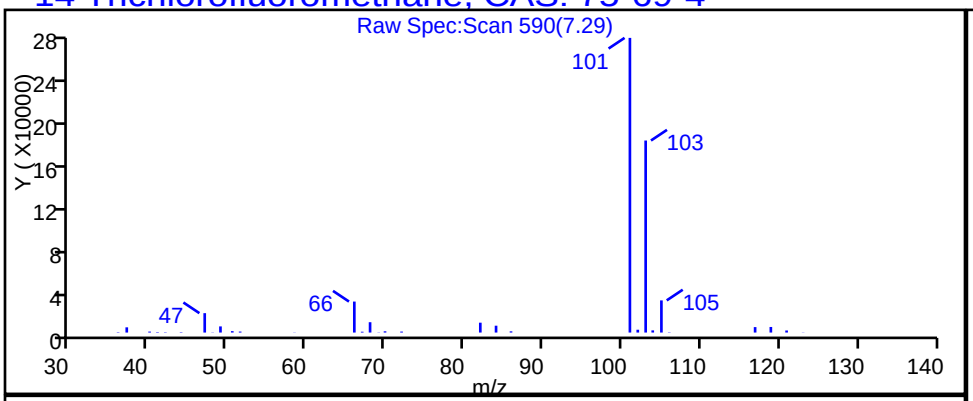


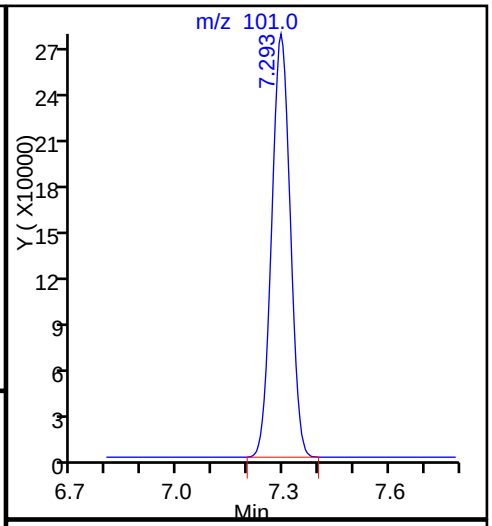
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

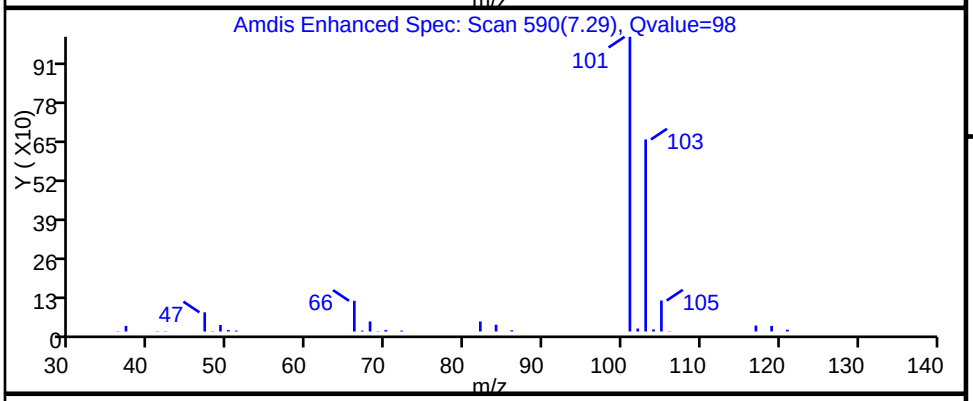
TestAmerica Burlington

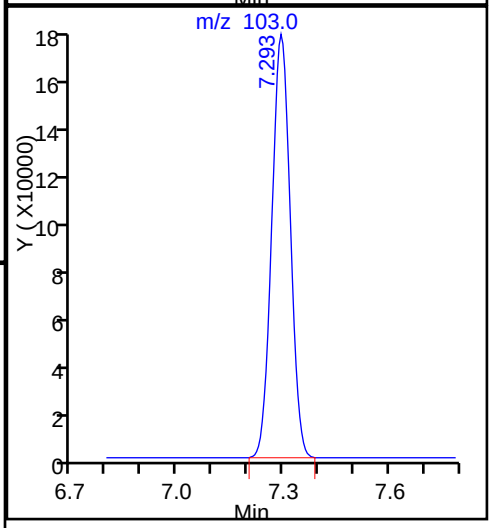
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

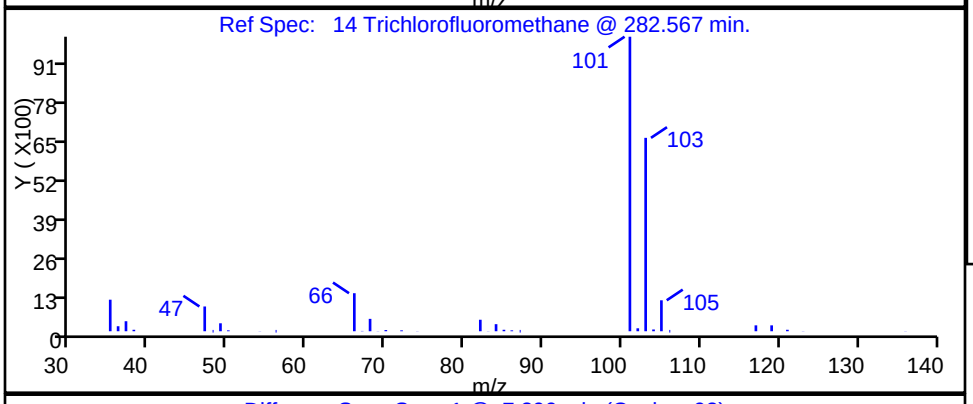
14 Trichlorofluoromethane, CAS: 75-69-4

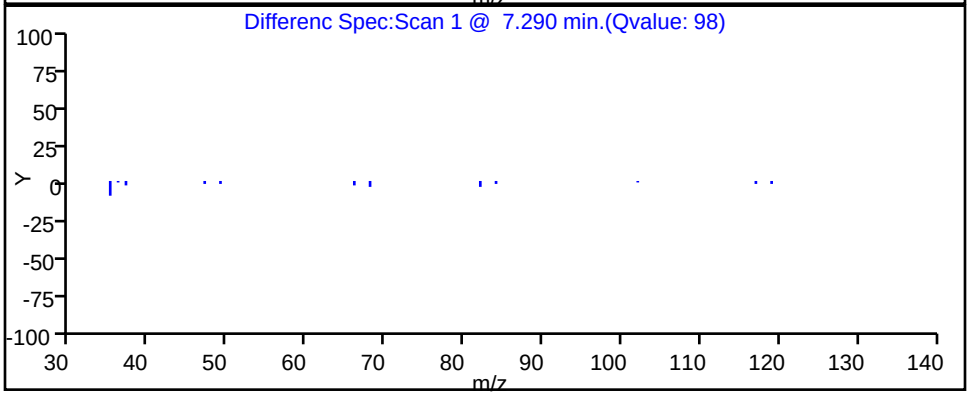












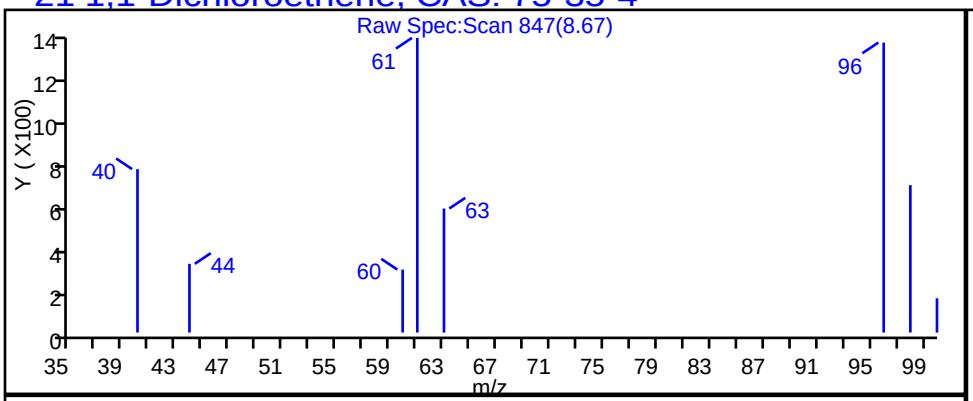
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

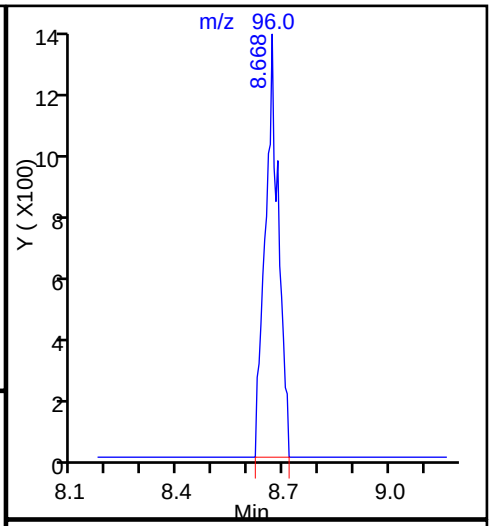
TestAmerica Burlington

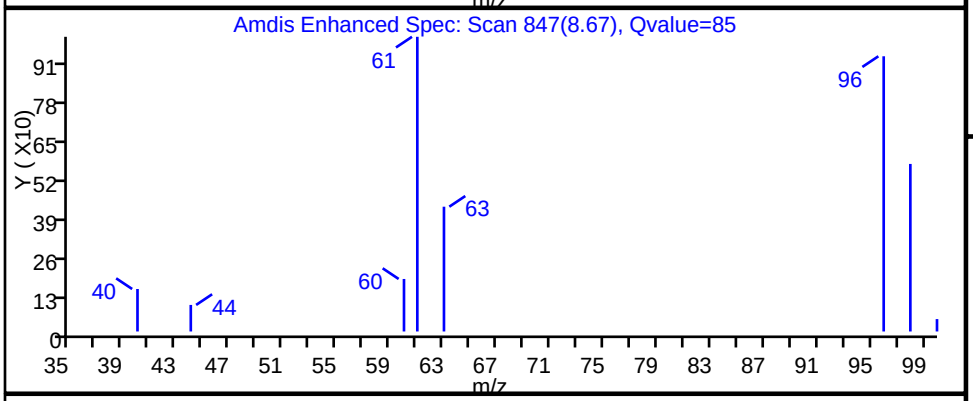
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

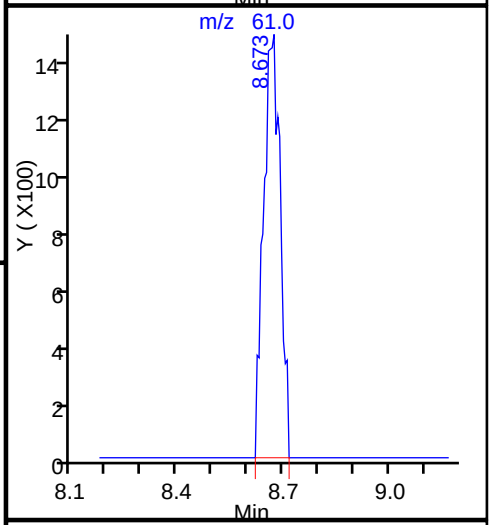
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

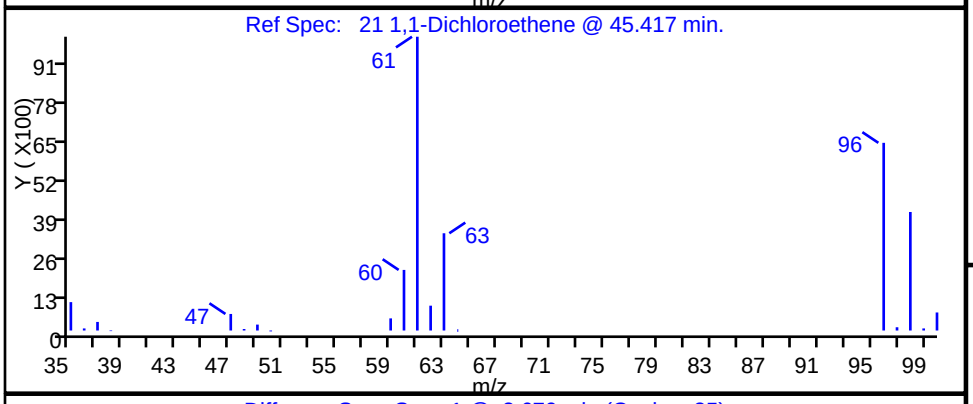
21 1,1-Dichloroethene, CAS: 75-35-4

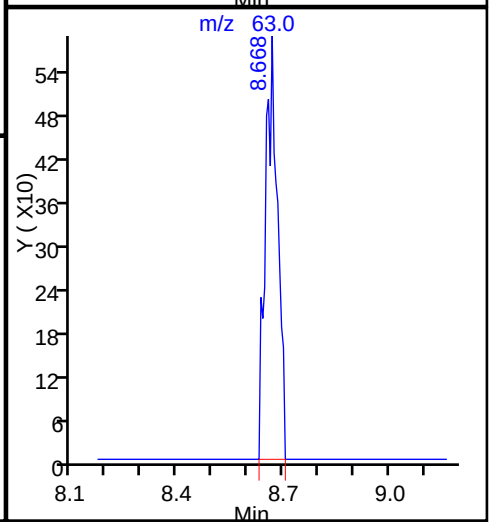


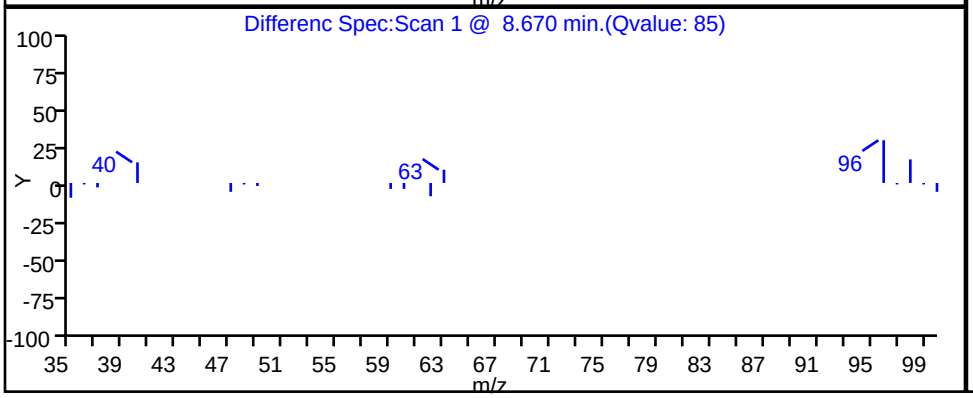










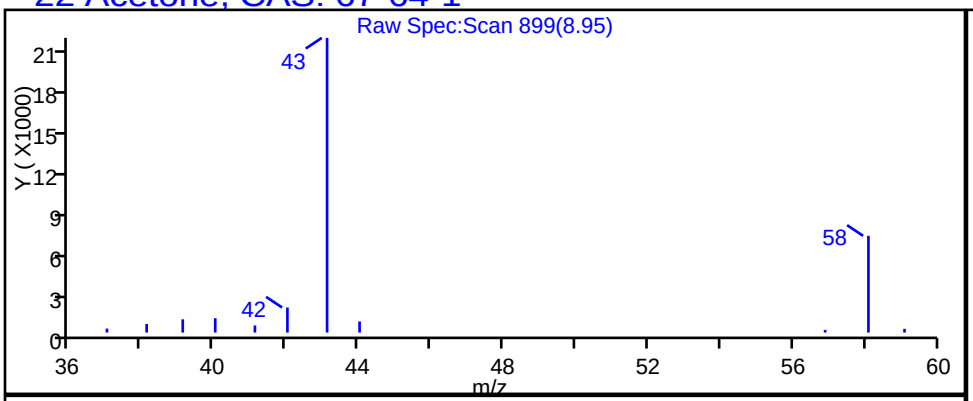


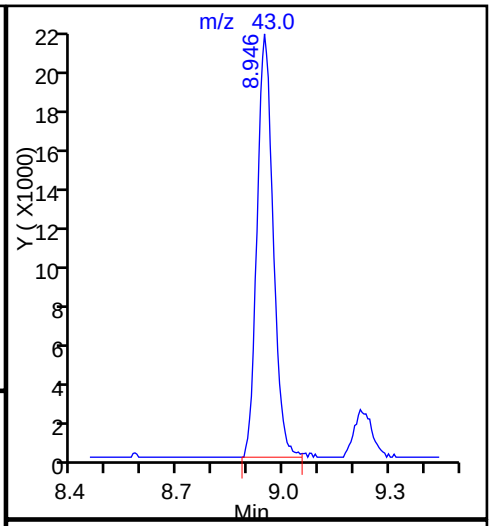
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

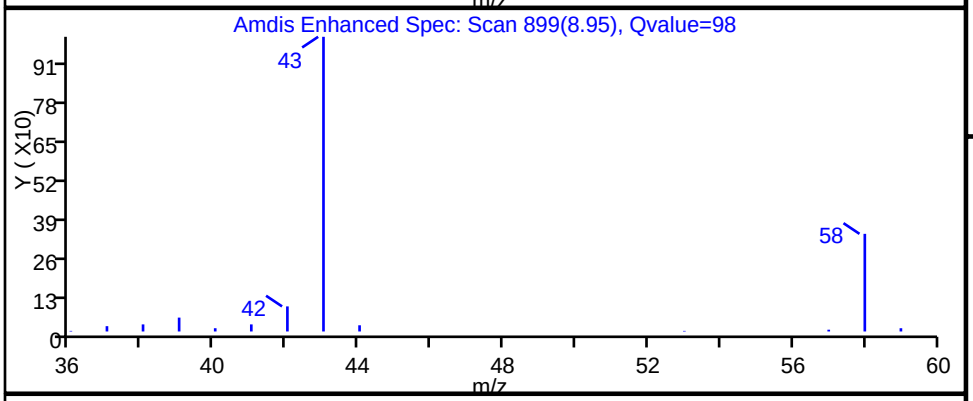
TestAmerica Burlington

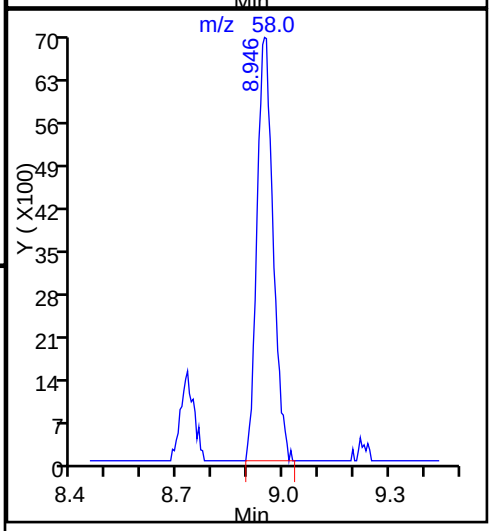
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

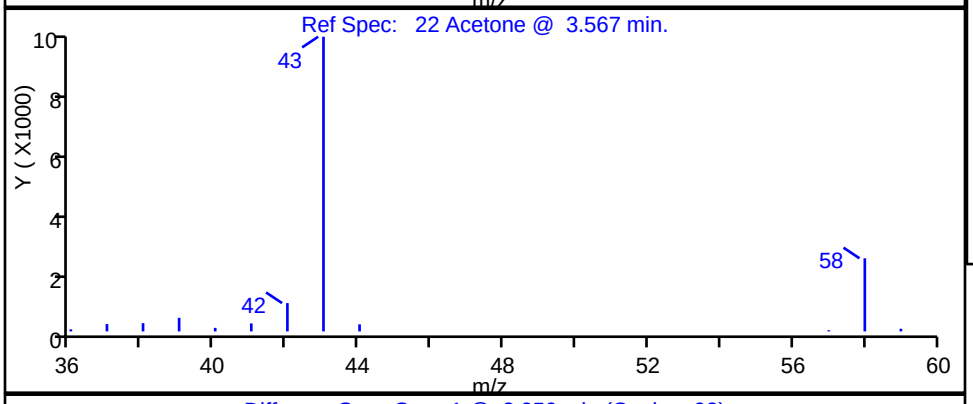
22 Acetone, CAS: 67-64-1

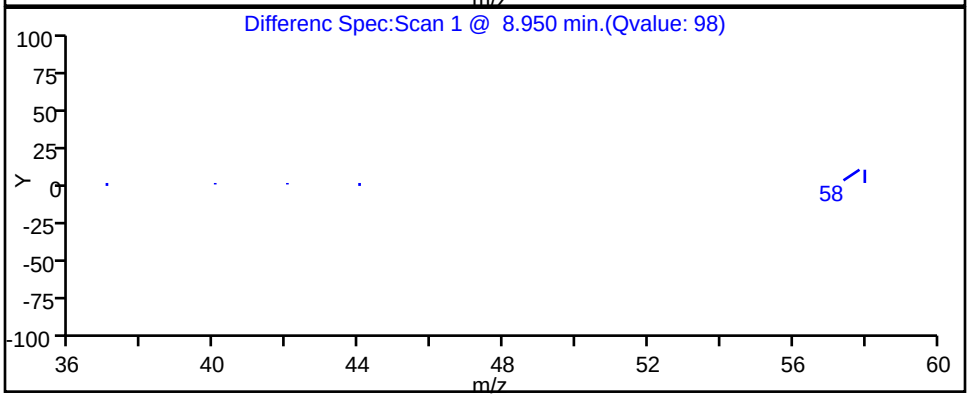












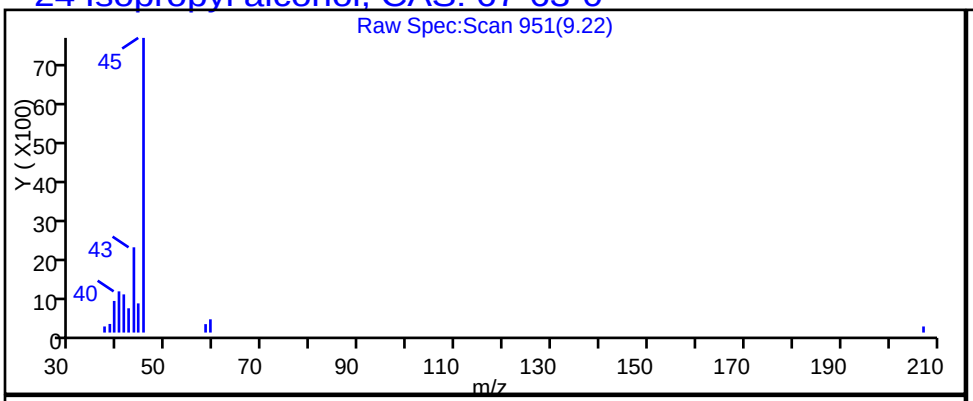
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

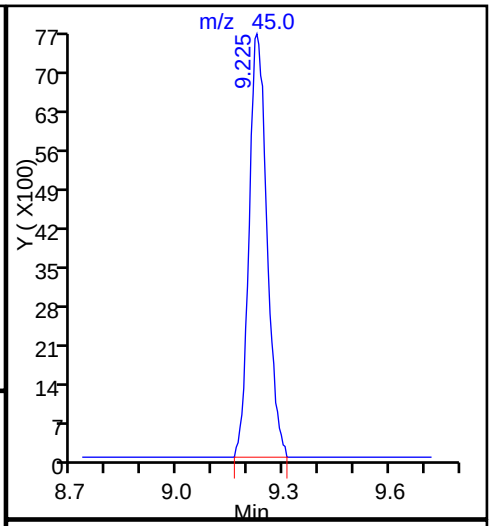
TestAmerica Burlington

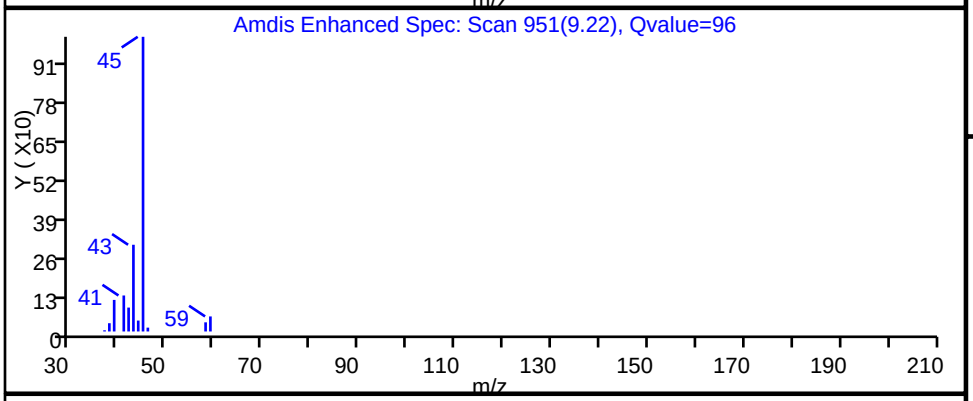
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

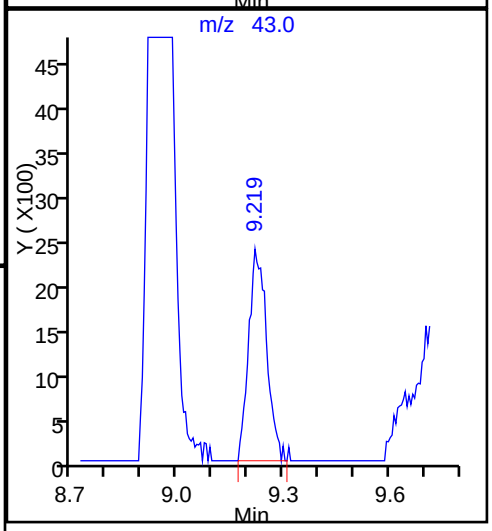
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

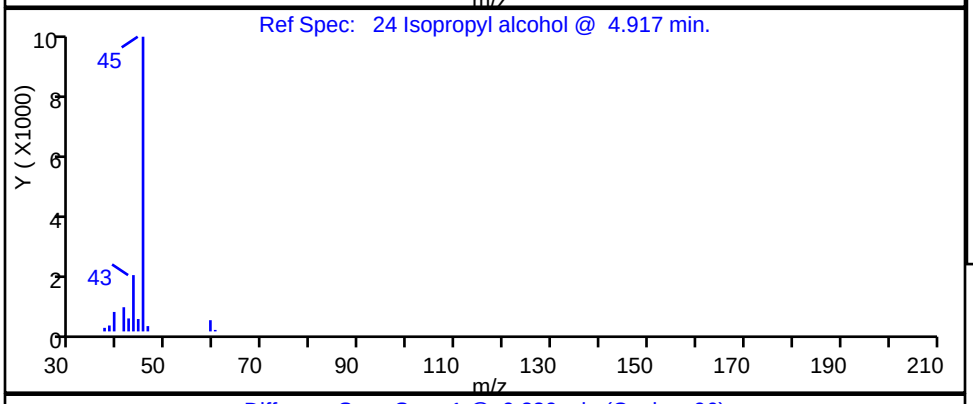
24 Isopropyl alcohol, CAS: 67-63-0

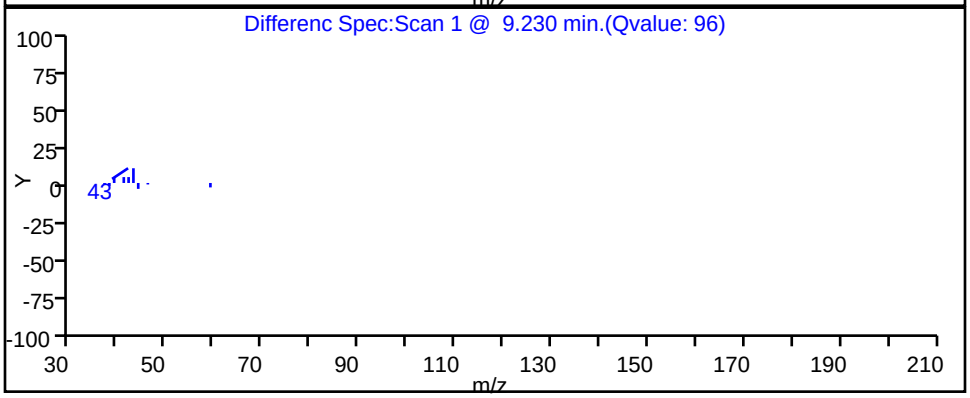












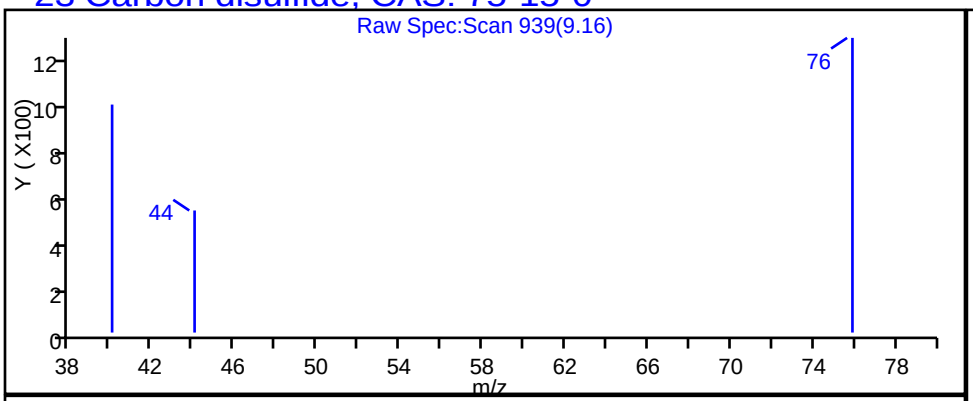
Report Date: 01-Oct-2015 12:53:32 Chrom Revision: 2.2 23-Jul-2015 08:26:08

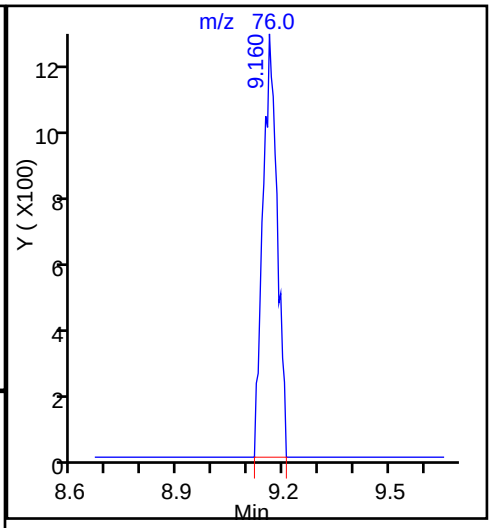
TestAmerica Burlington

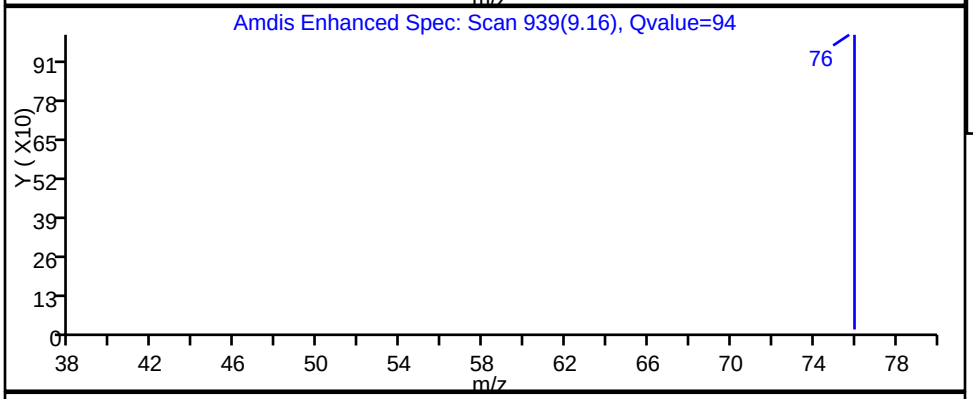
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

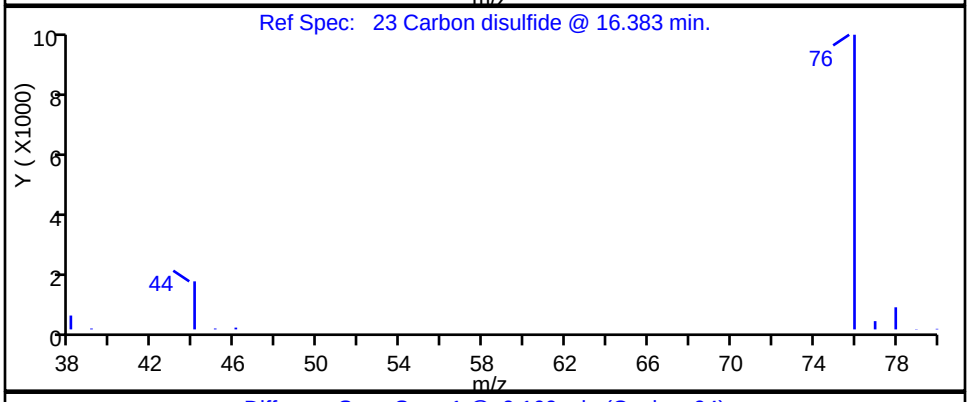
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

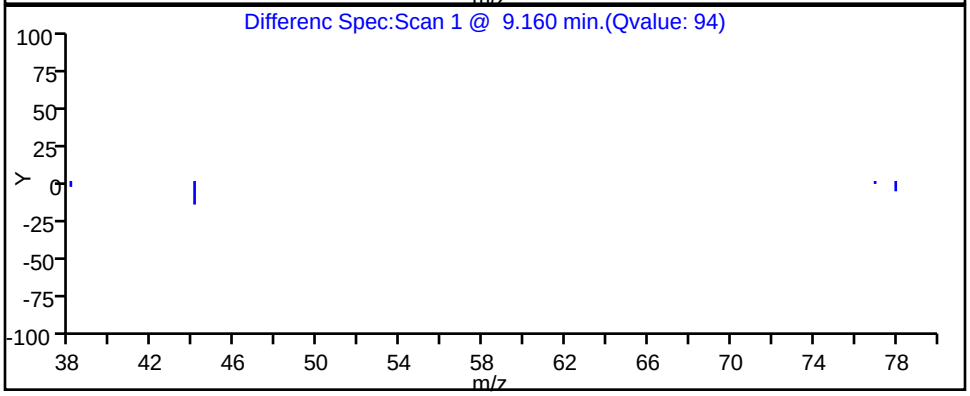
23 Carbon disulfide, CAS: 75-15-0











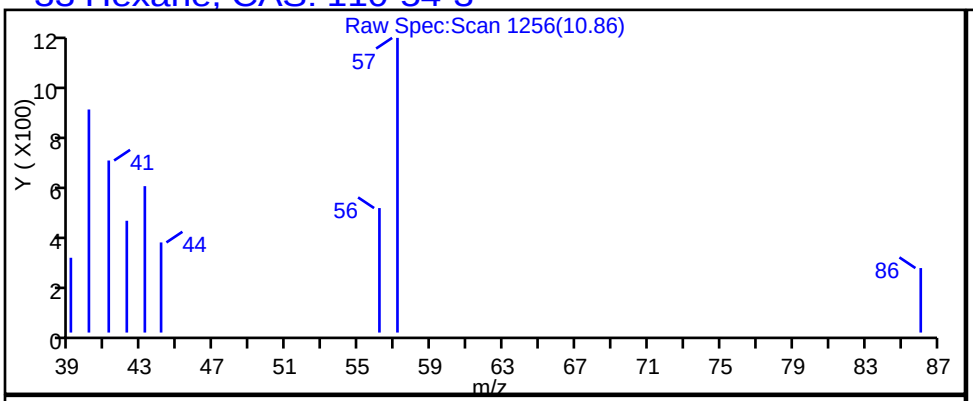
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

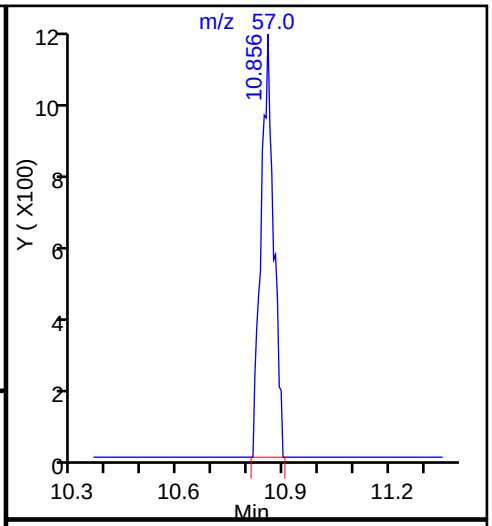
TestAmerica Burlington

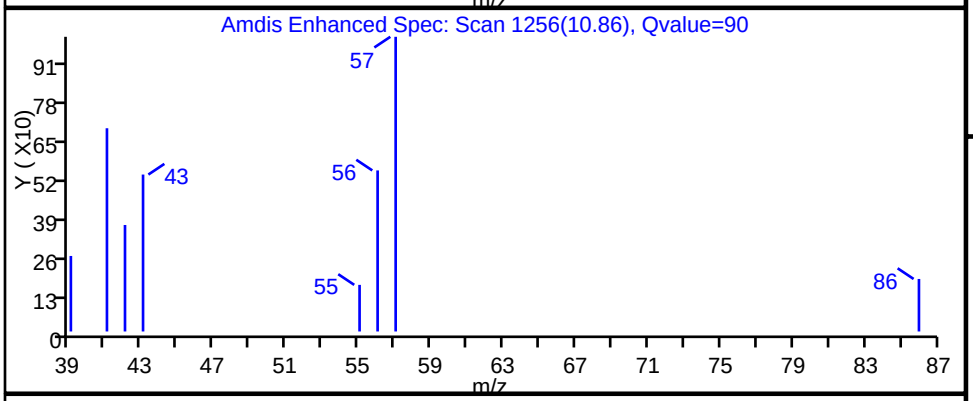
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

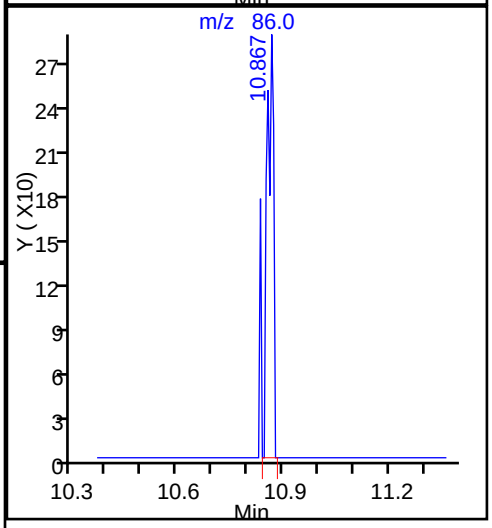
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

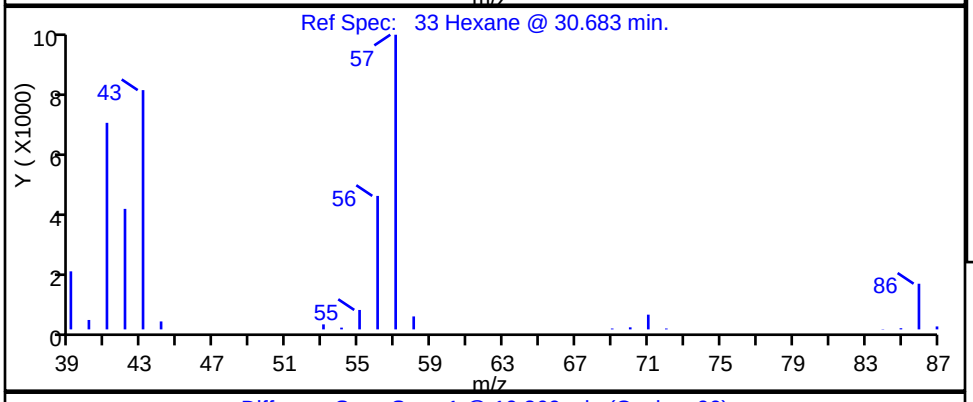
33 Hexane, CAS: 110-54-3

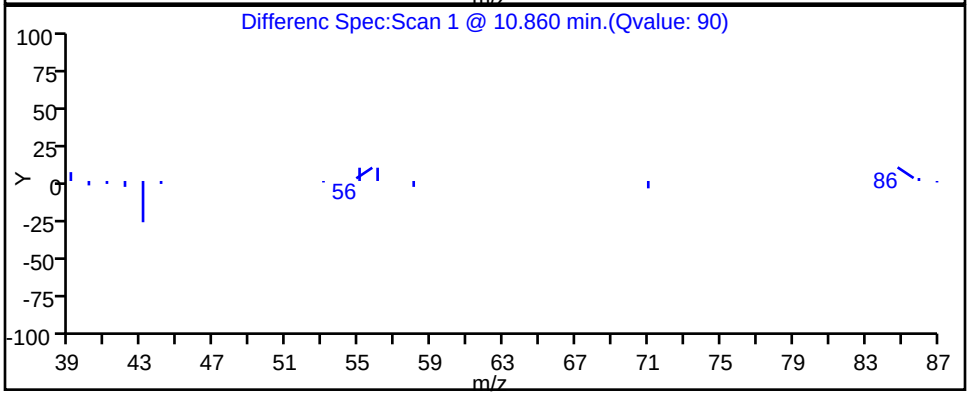












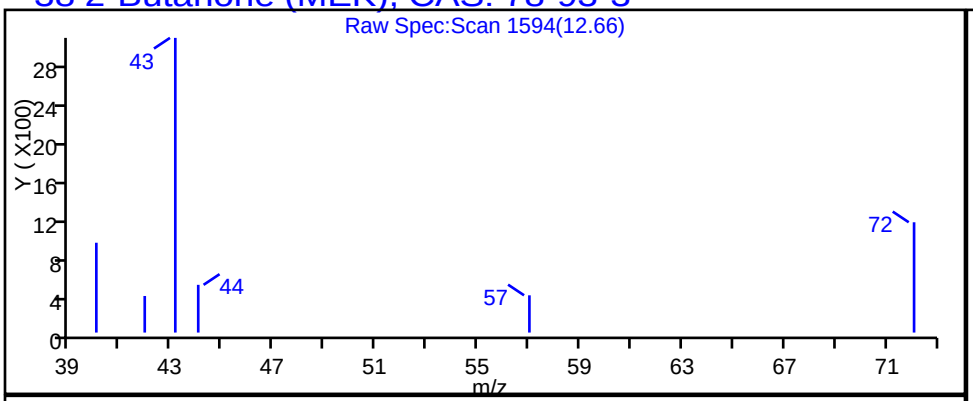
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

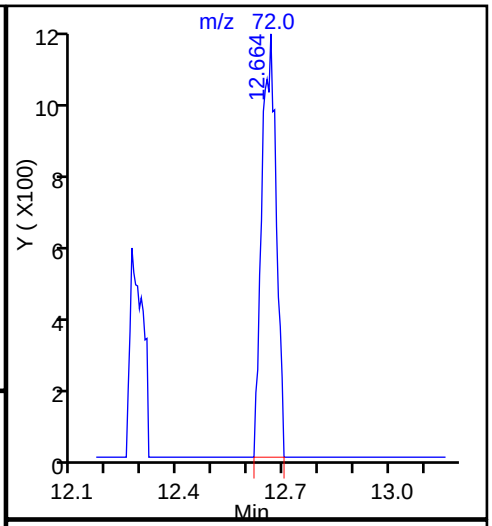
TestAmerica Burlington

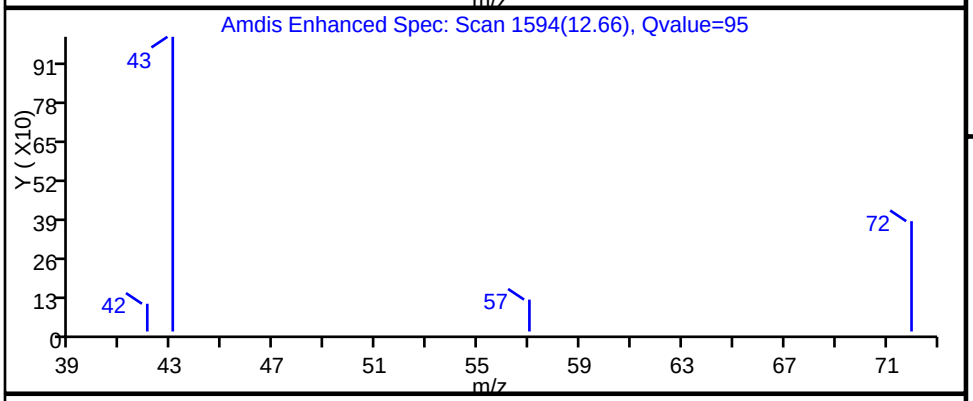
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

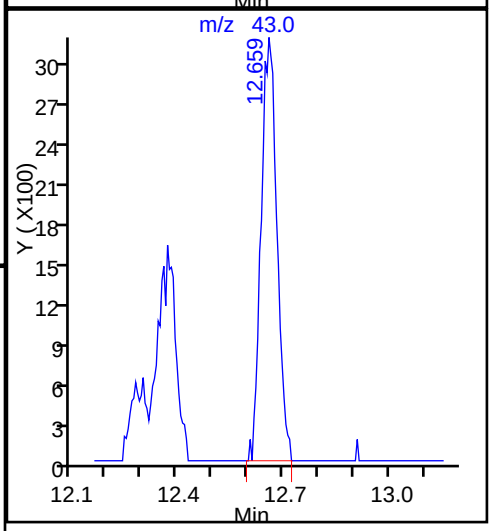
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

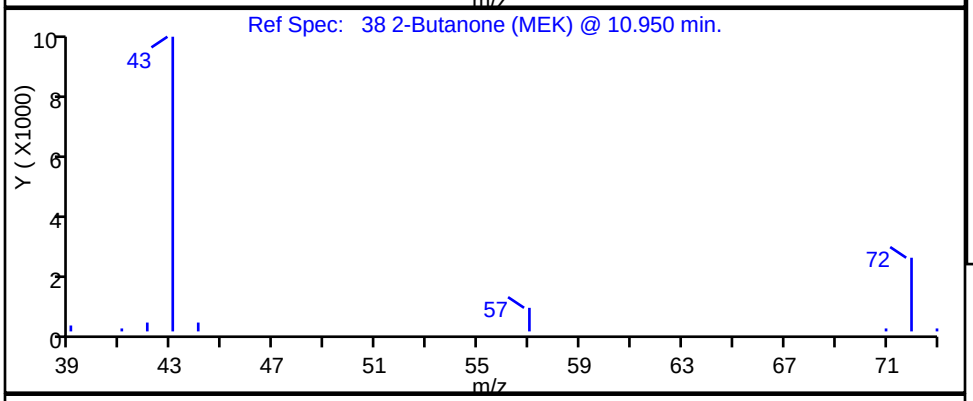
38 2-Butanone (MEK), CAS: 78-93-3

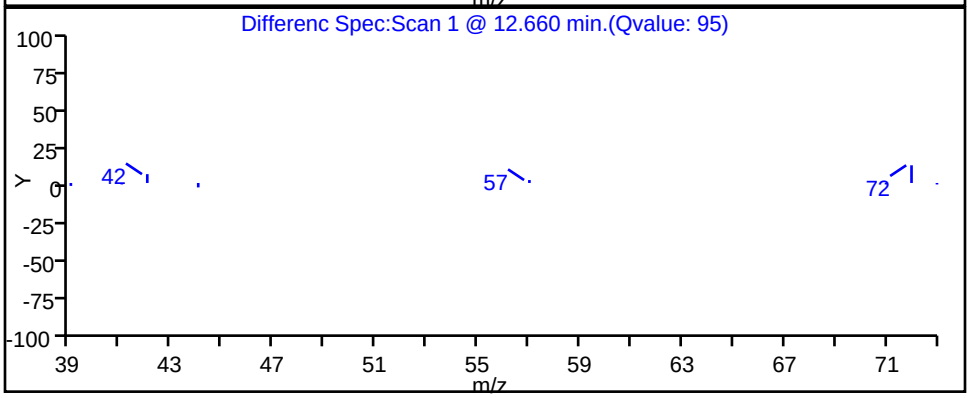










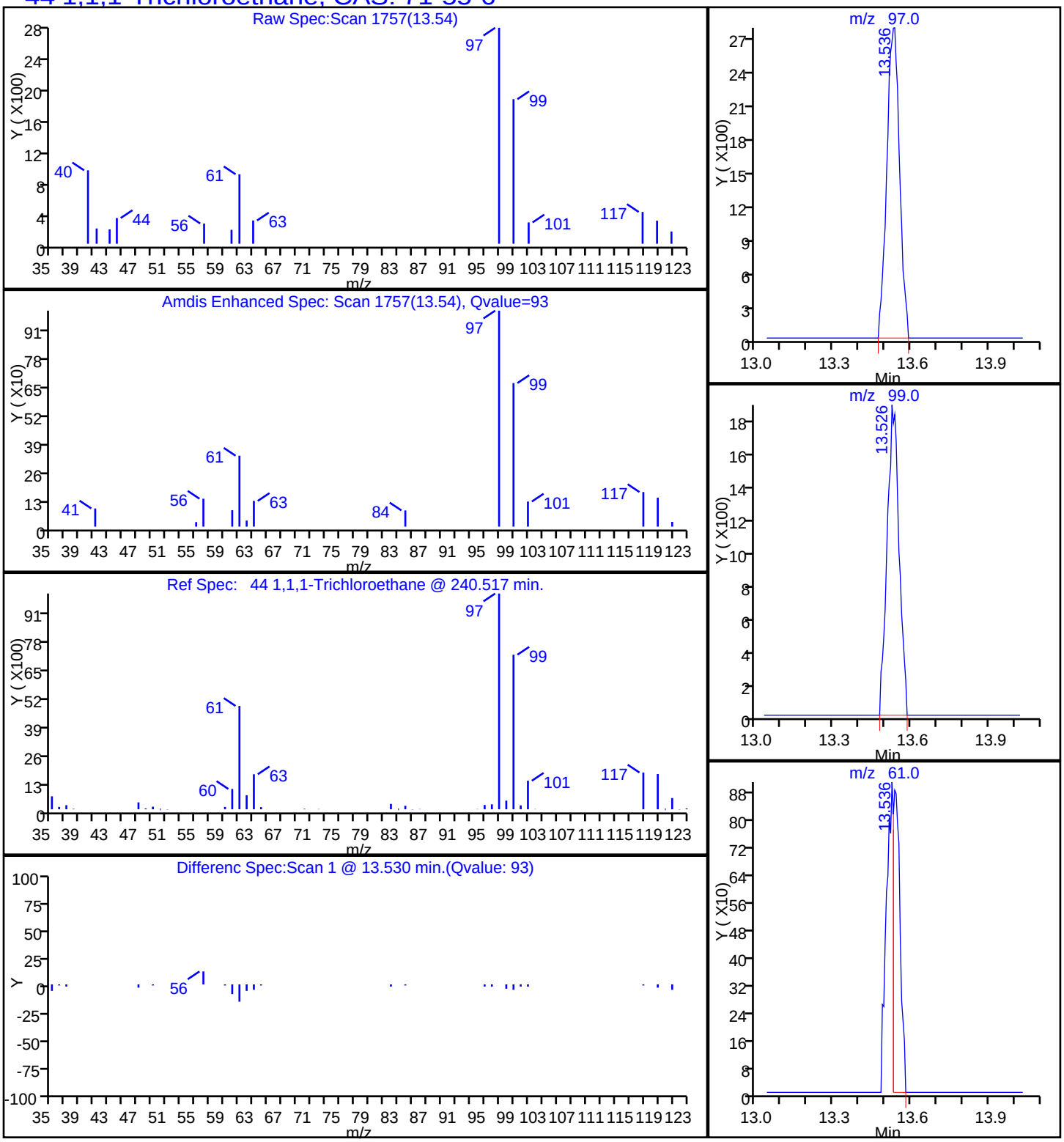


Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

44 1,1,1-Trichloroethane, CAS: 71-55-6



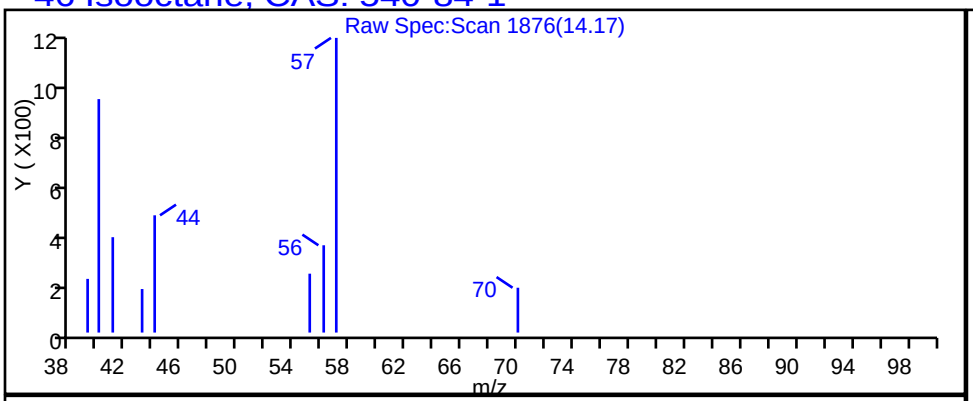
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

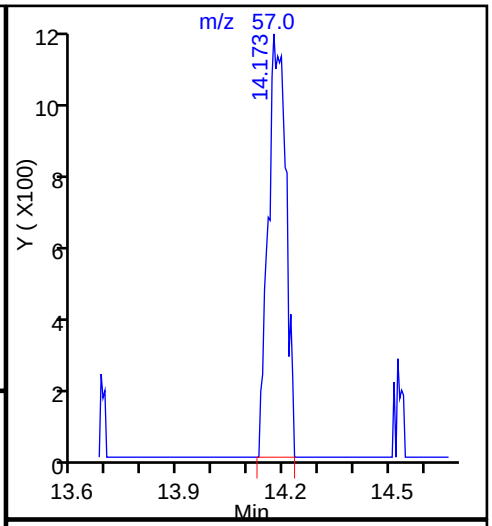
TestAmerica Burlington

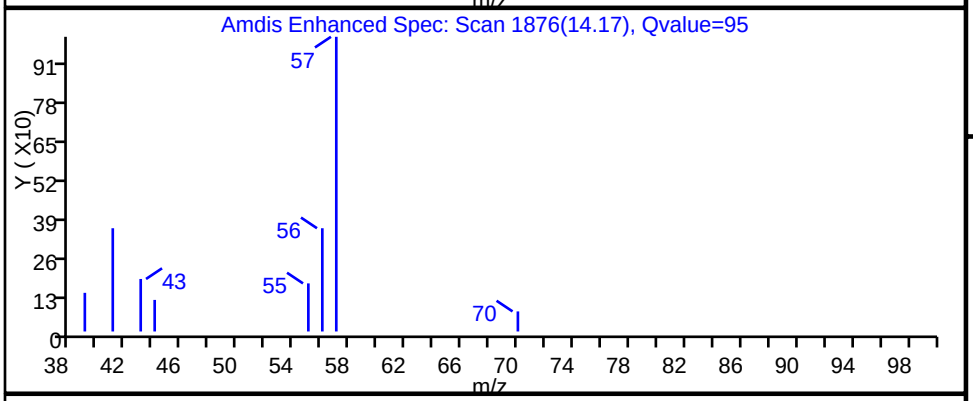
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

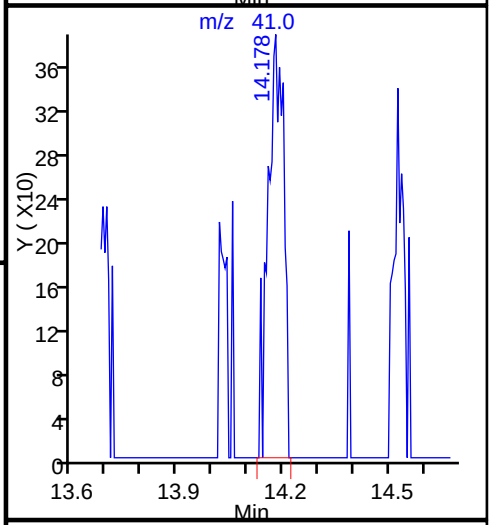
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

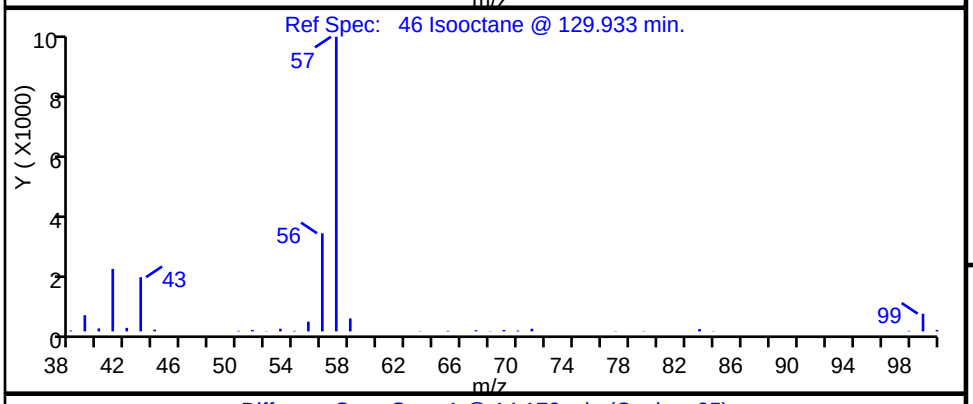
46 Isooctane, CAS: 540-84-1

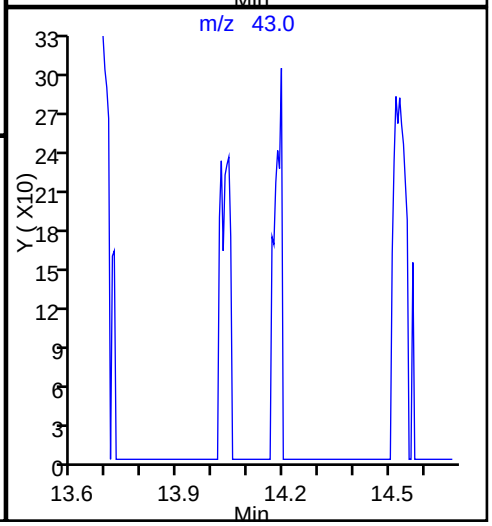


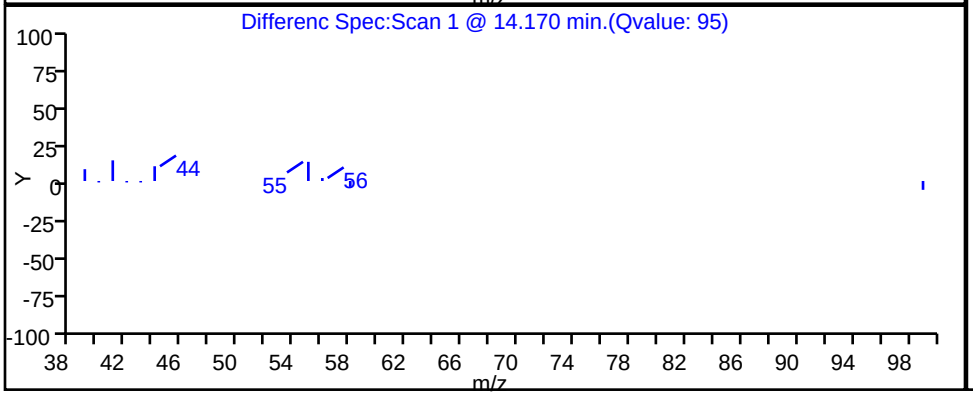












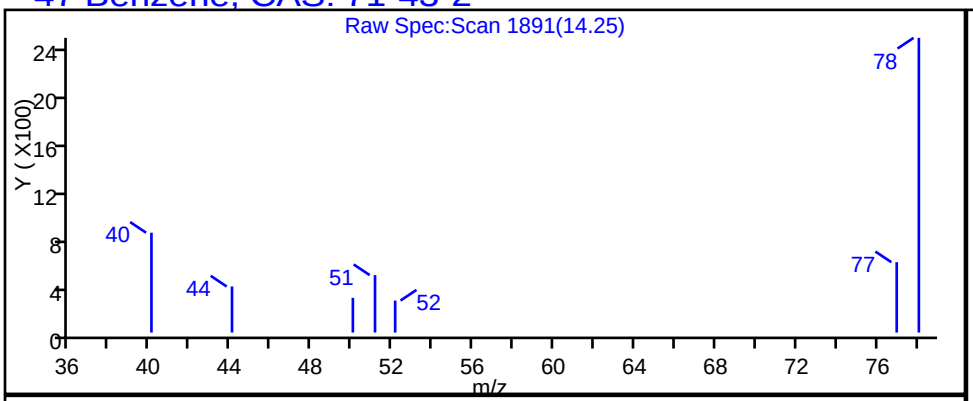
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

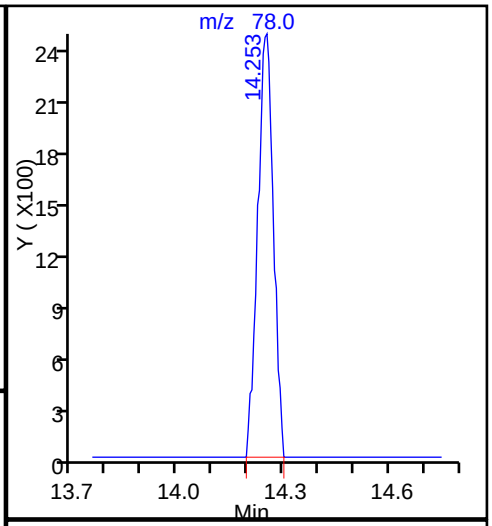
TestAmerica Burlington

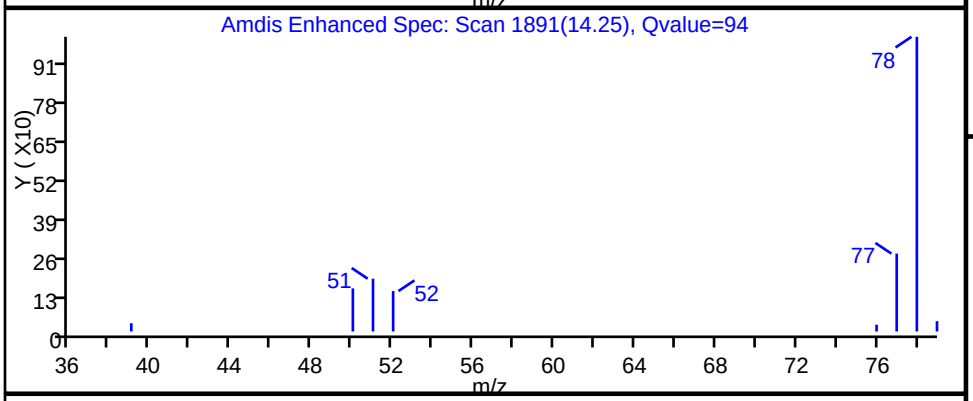
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

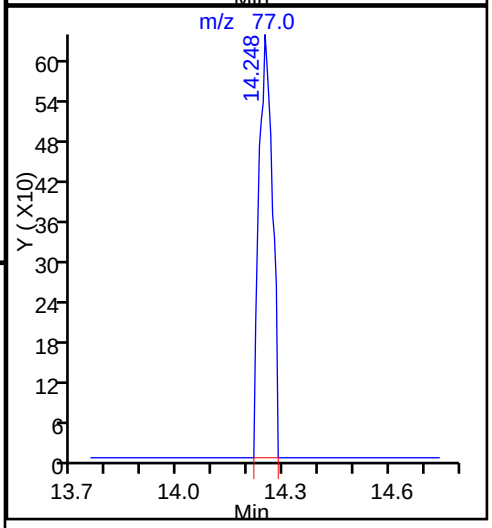
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

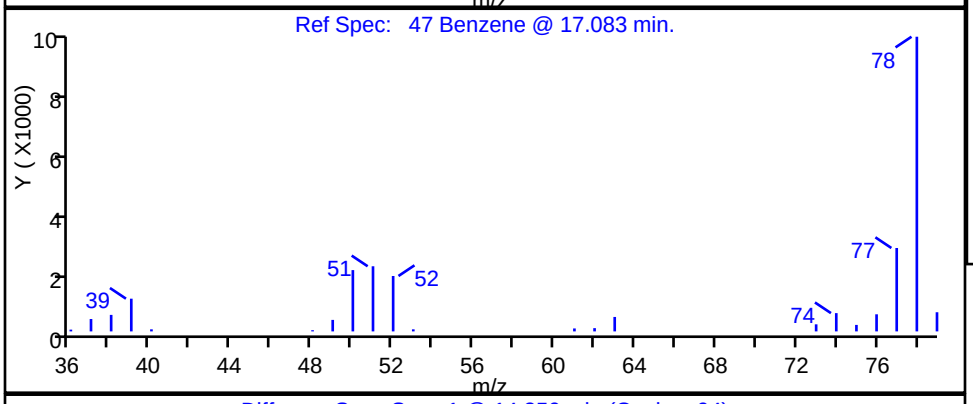
47 Benzene, CAS: 71-43-2

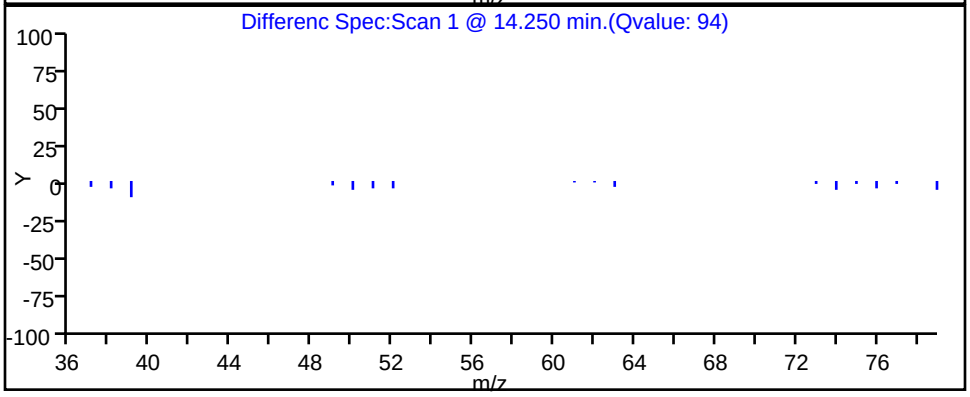












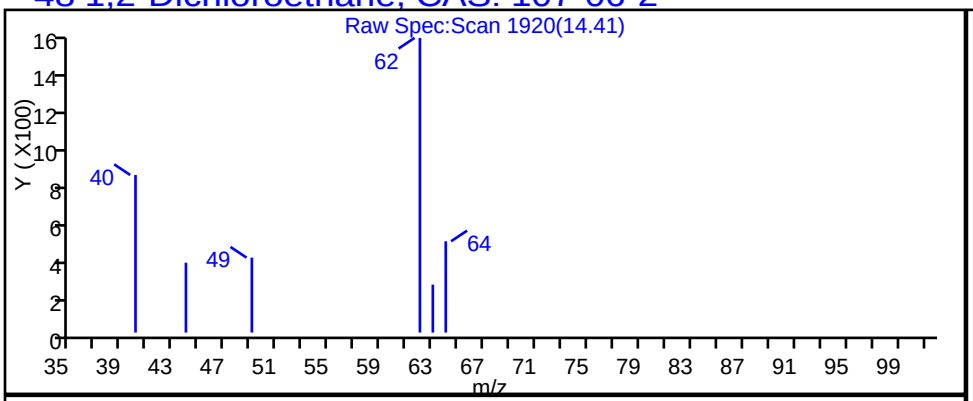
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

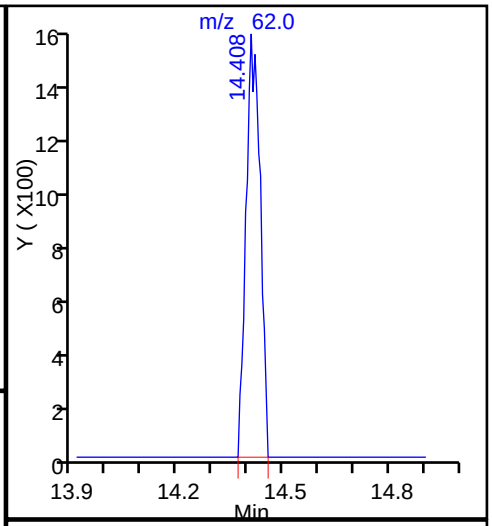
TestAmerica Burlington

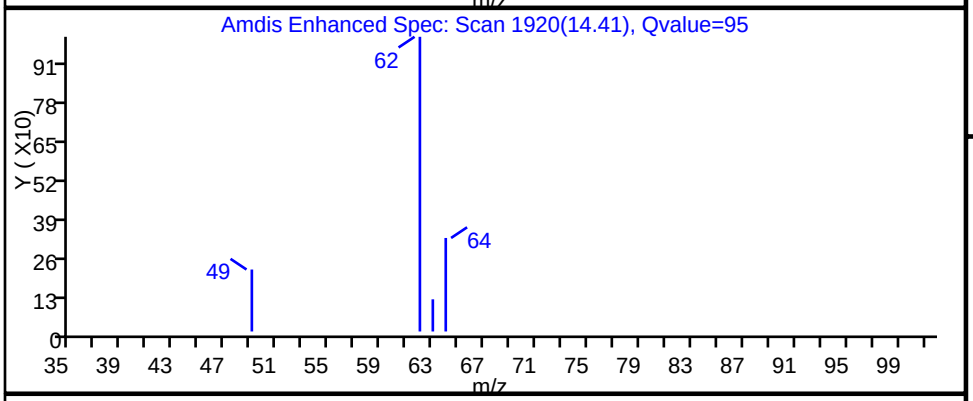
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

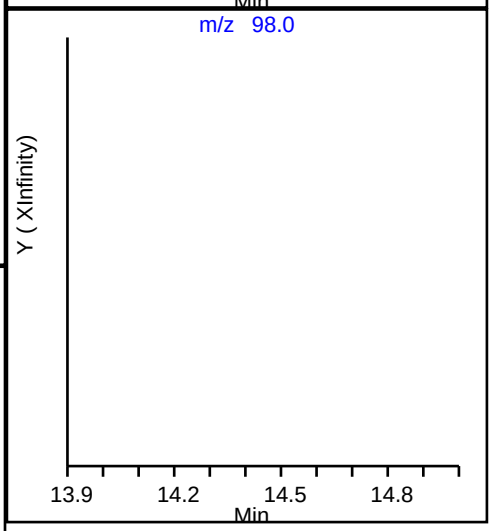
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

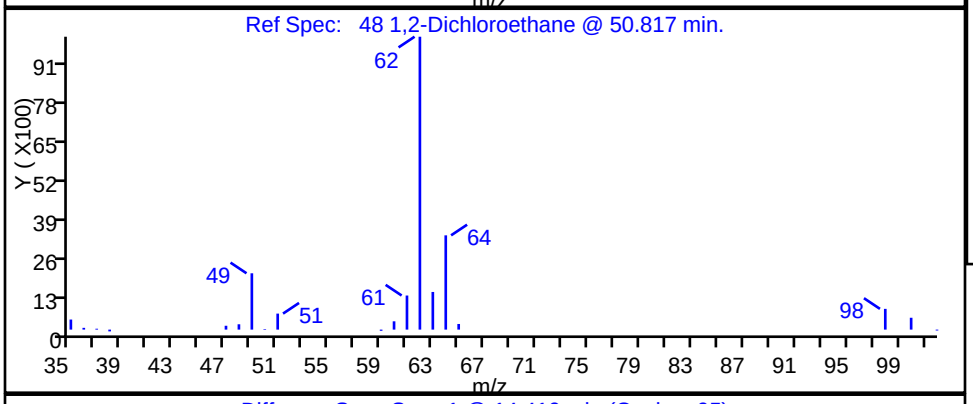
48 1,2-Dichloroethane, CAS: 107-06-2

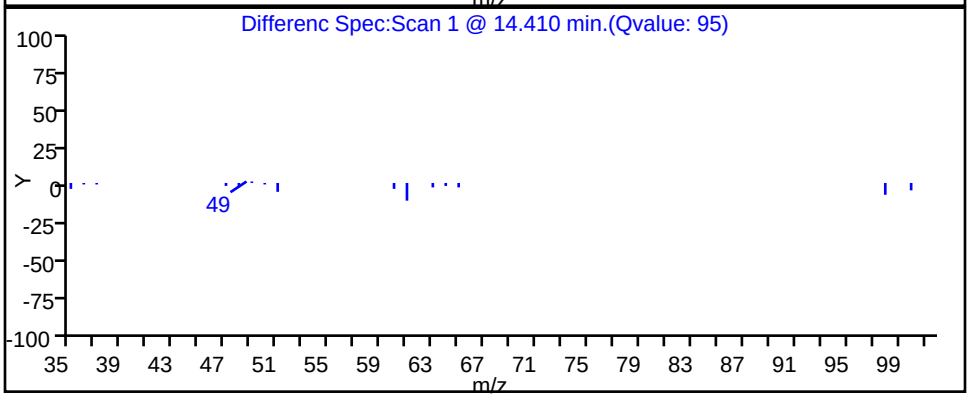












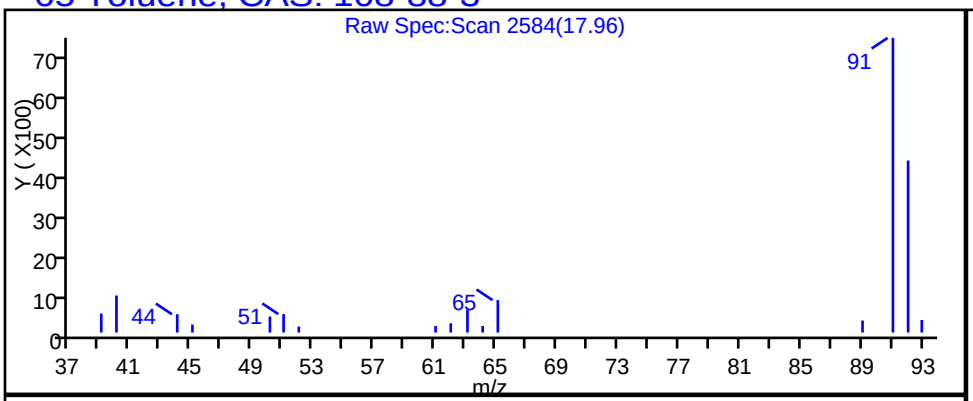
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

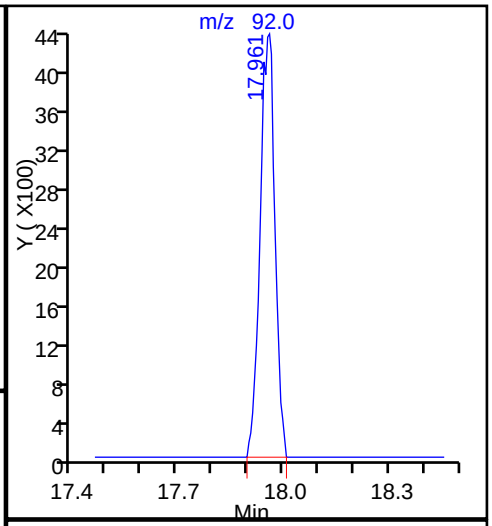
TestAmerica Burlington

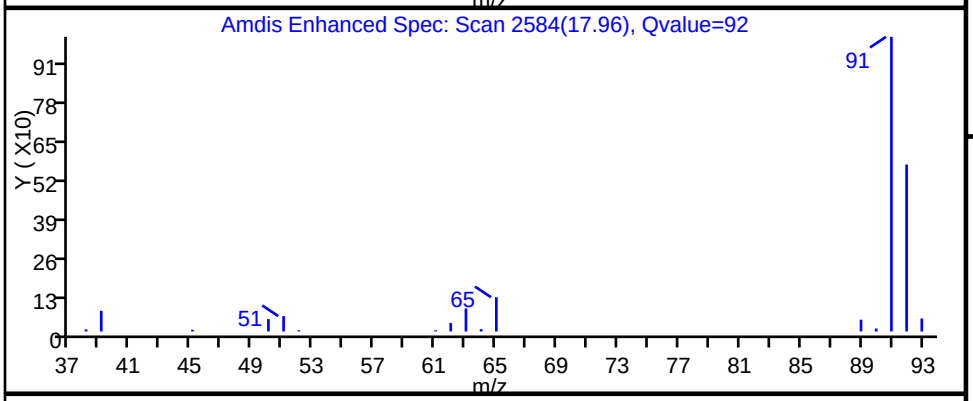
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

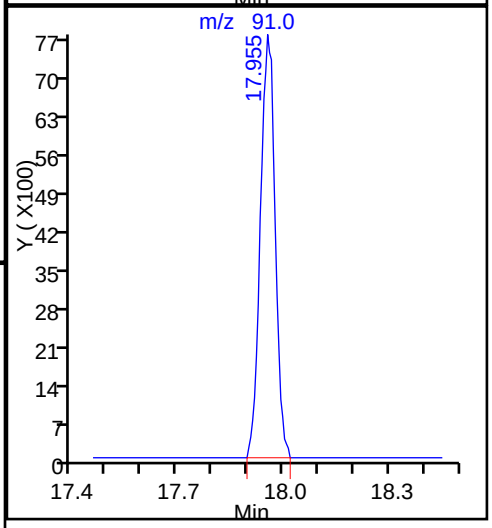
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

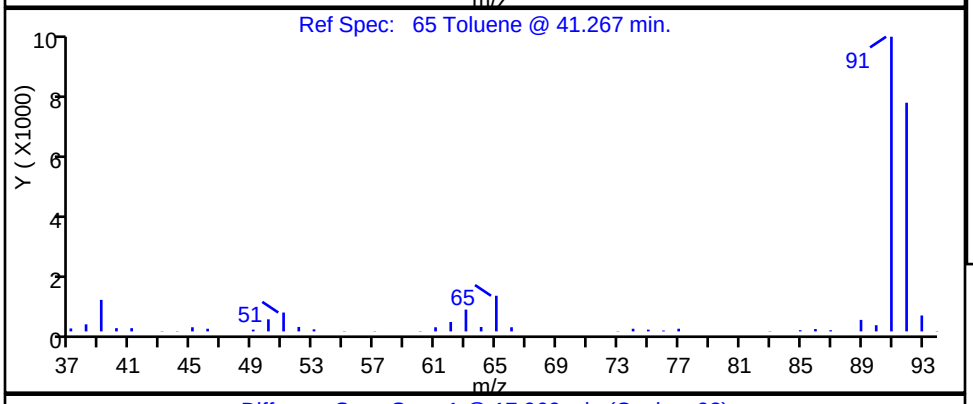
65 Toluene, CAS: 108-88-3

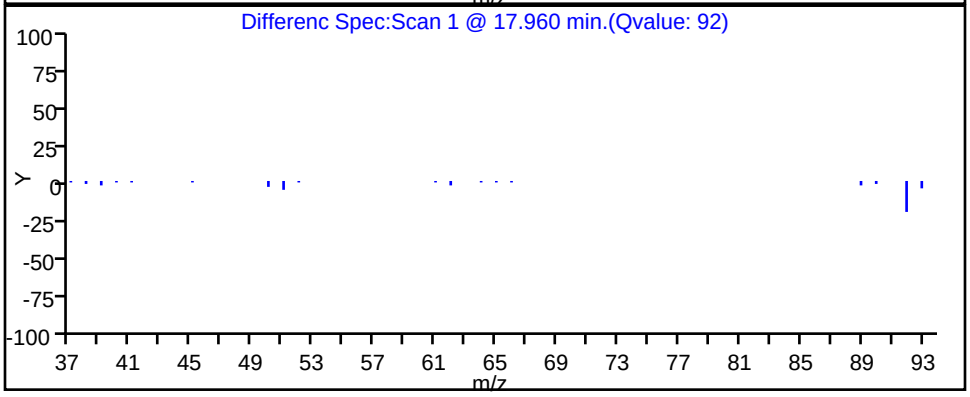












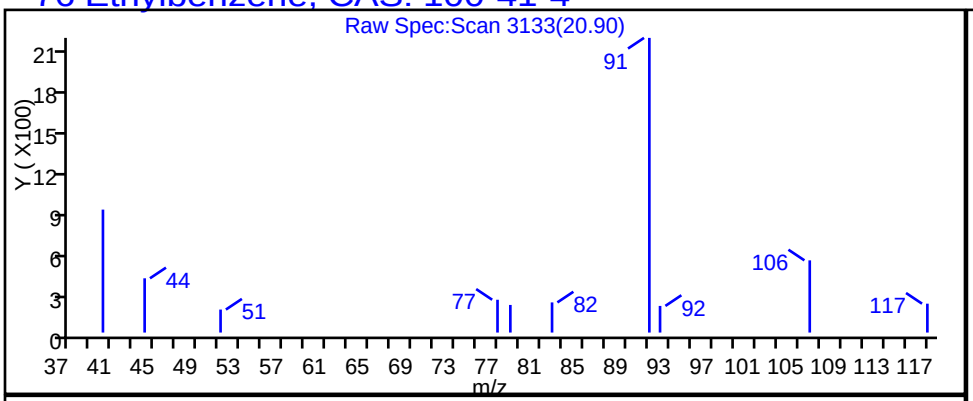
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

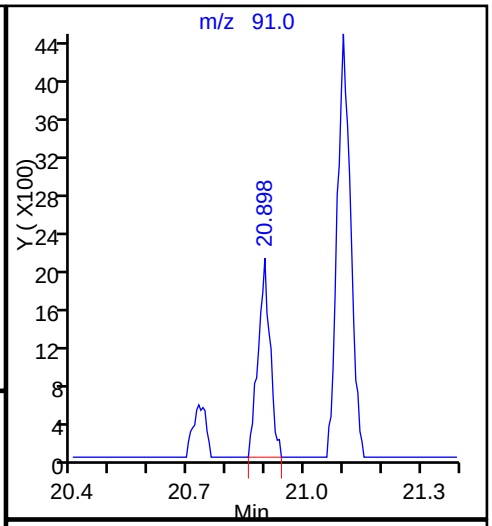
TestAmerica Burlington

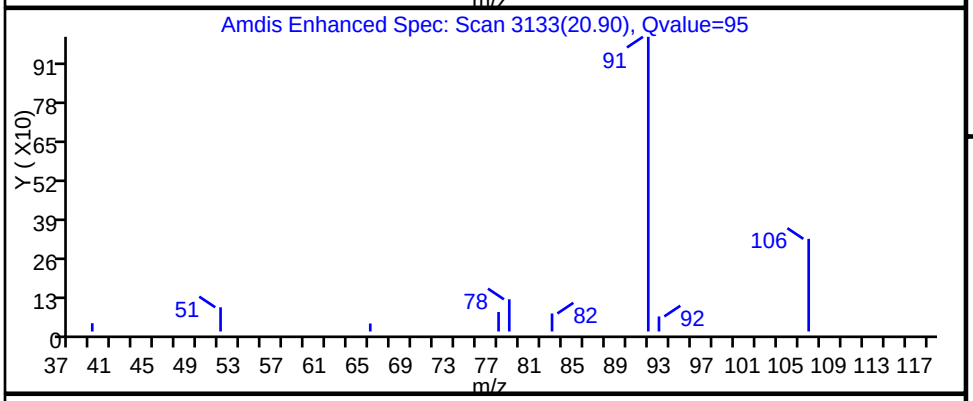
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

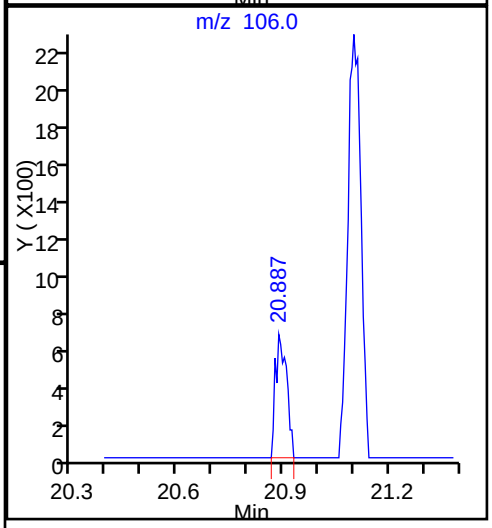
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

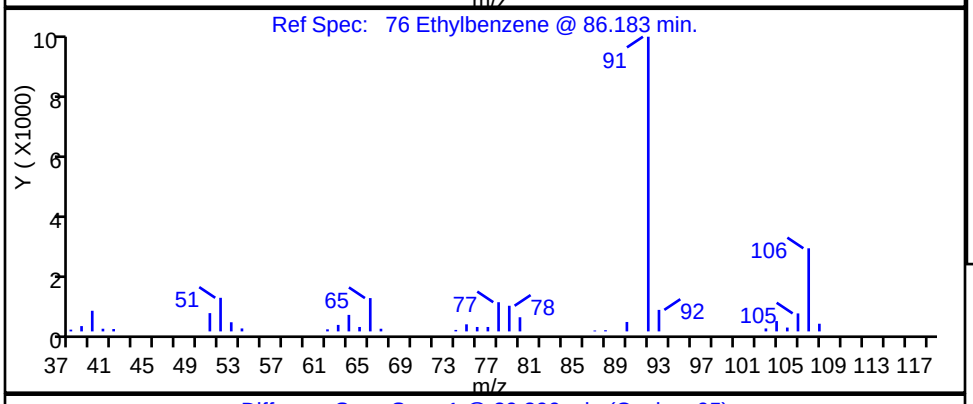
76 Ethylbenzene, CAS: 100-41-4

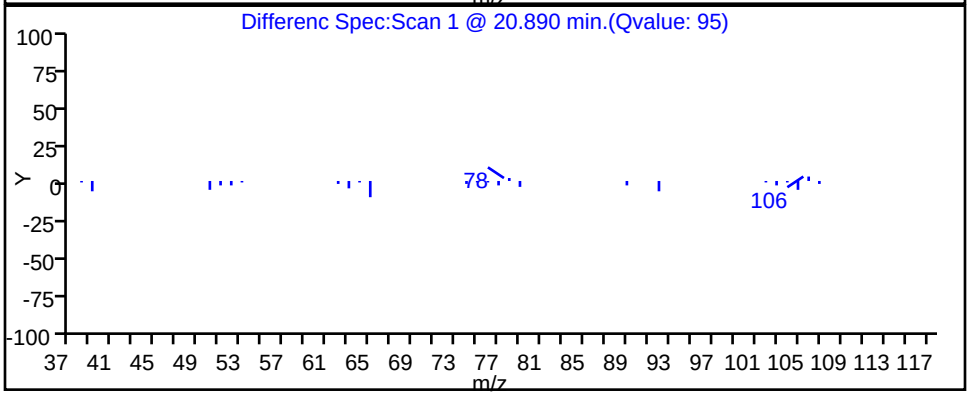










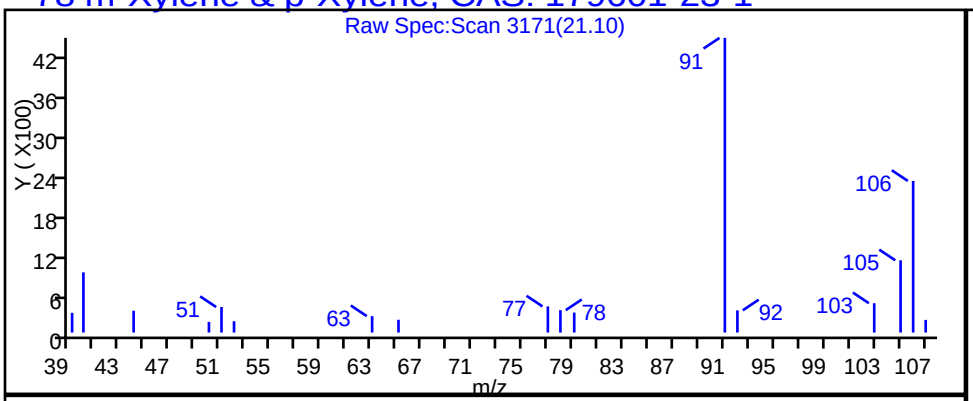


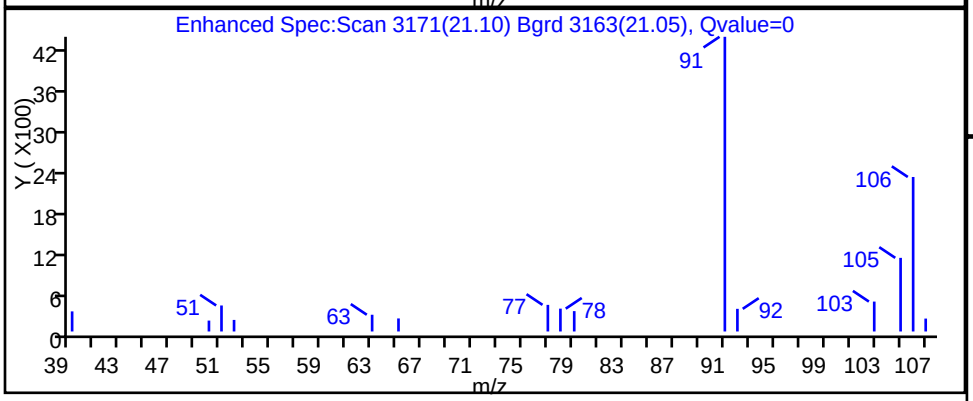
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

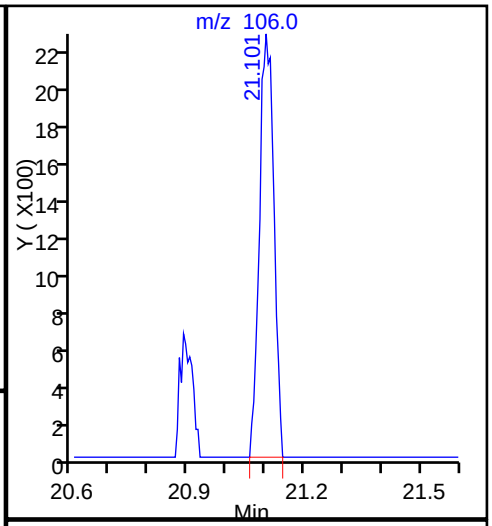
TestAmerica Burlington

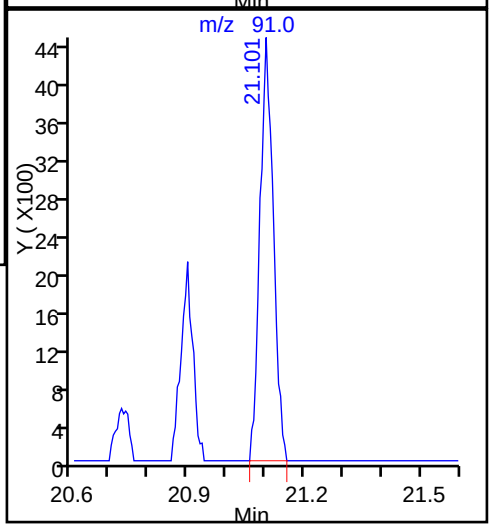
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









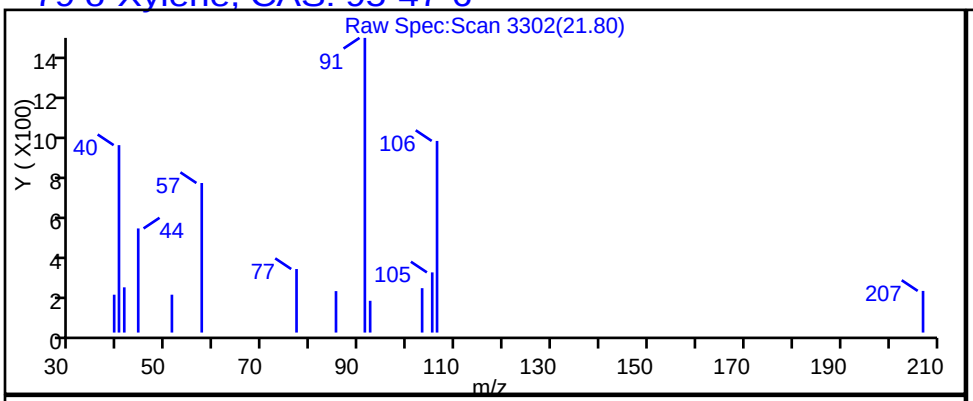
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

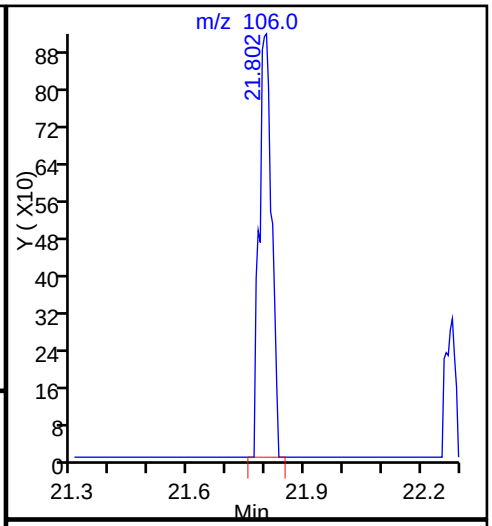
TestAmerica Burlington

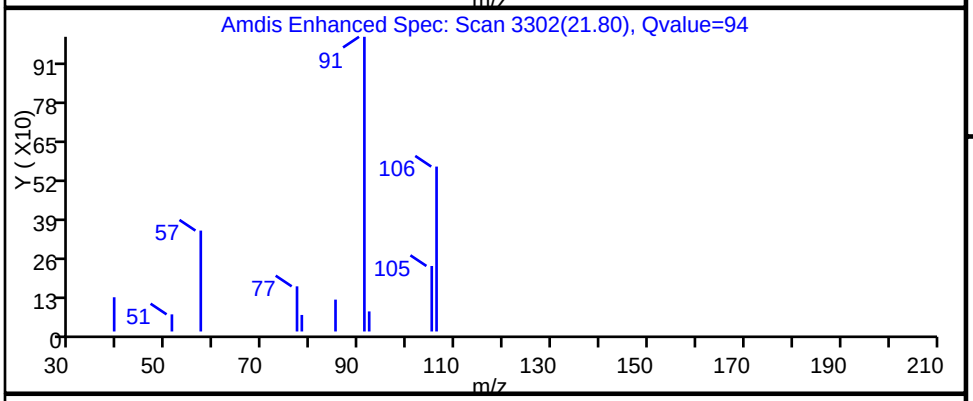
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

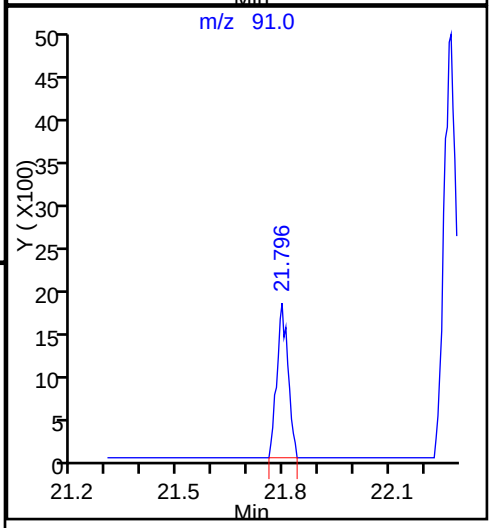
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

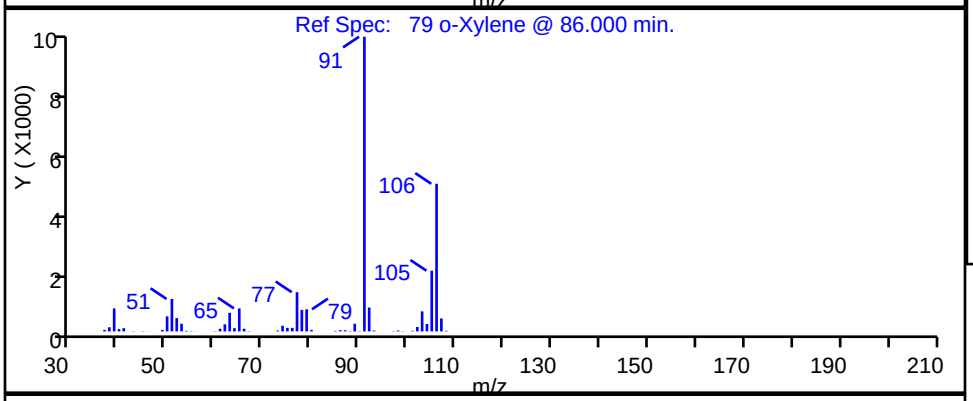
79 o-Xylene, CAS: 95-47-6

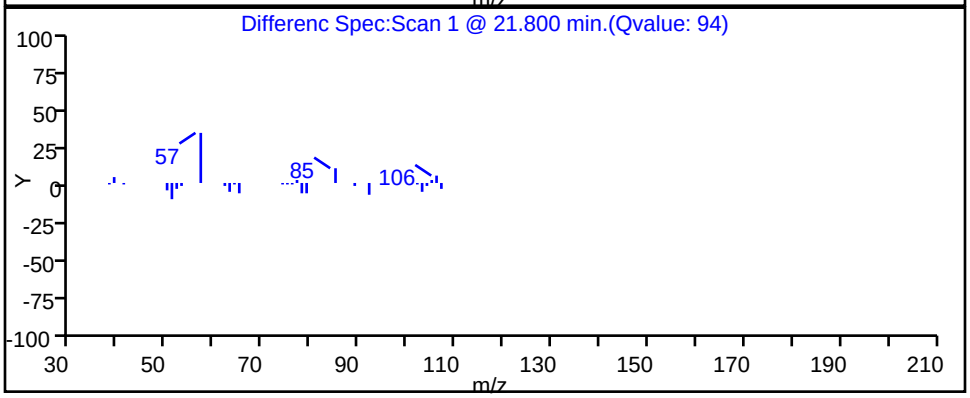












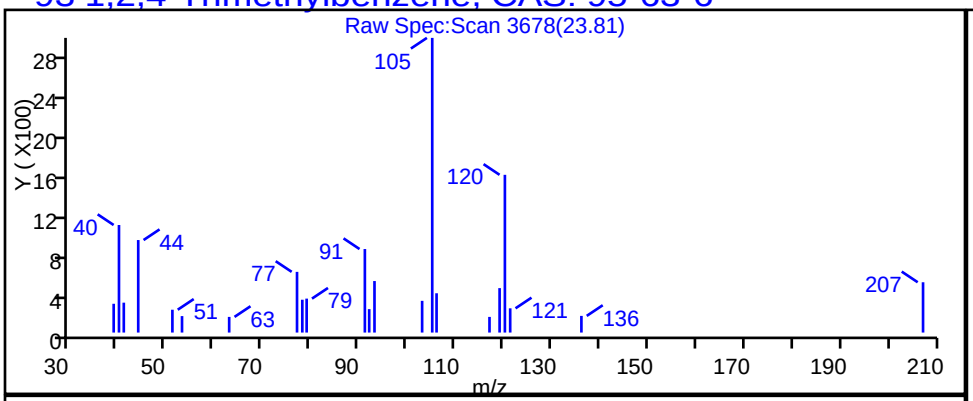
Report Date: 01-Oct-2015 12:53:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

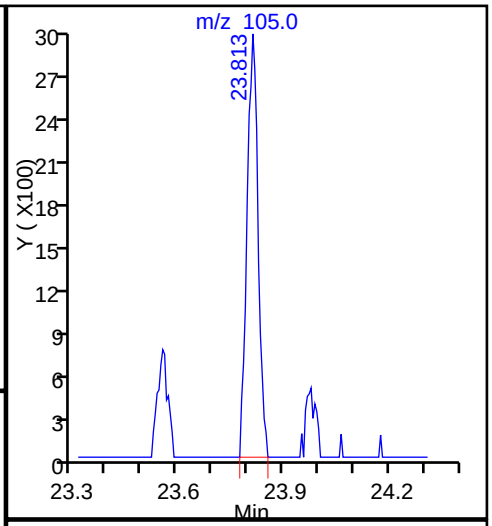
TestAmerica Burlington

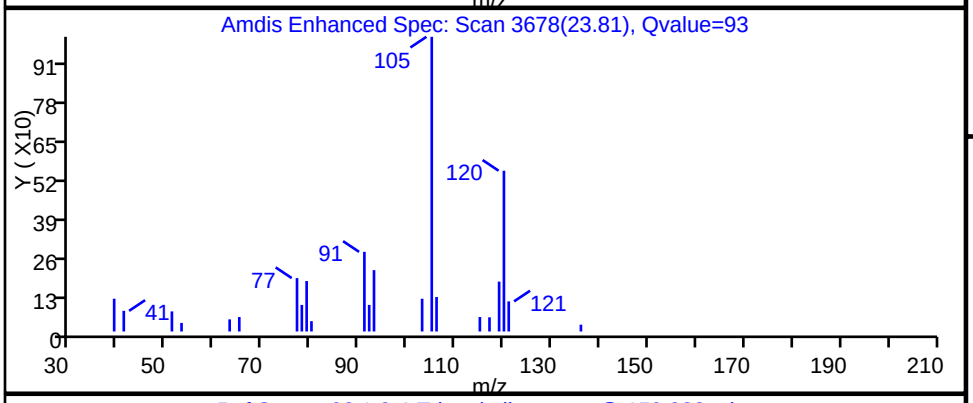
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d

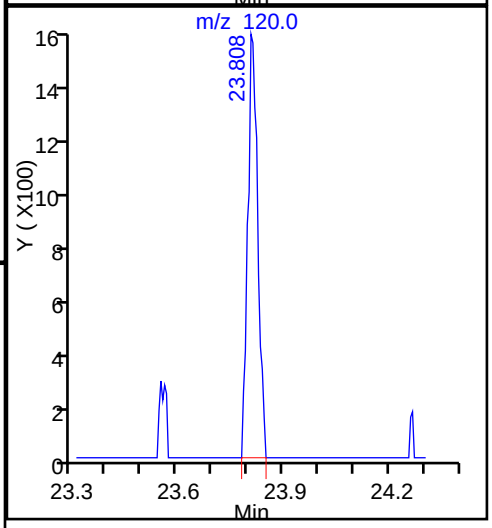
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

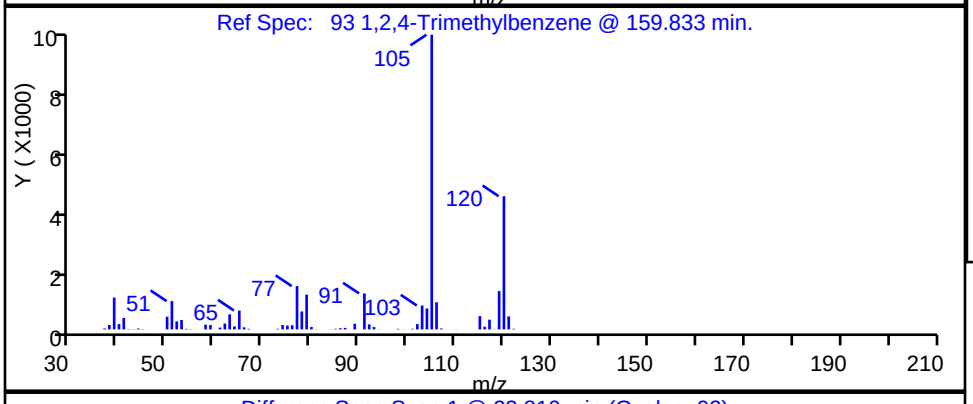
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

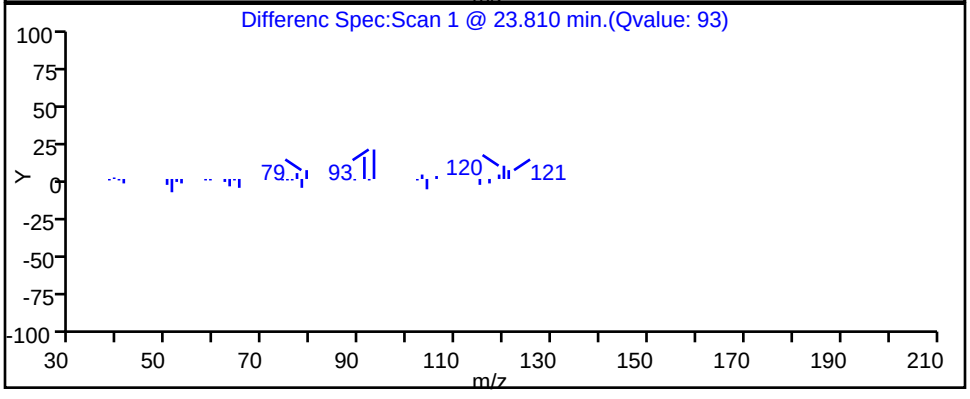












Manual Integration/User Assign Peak Report

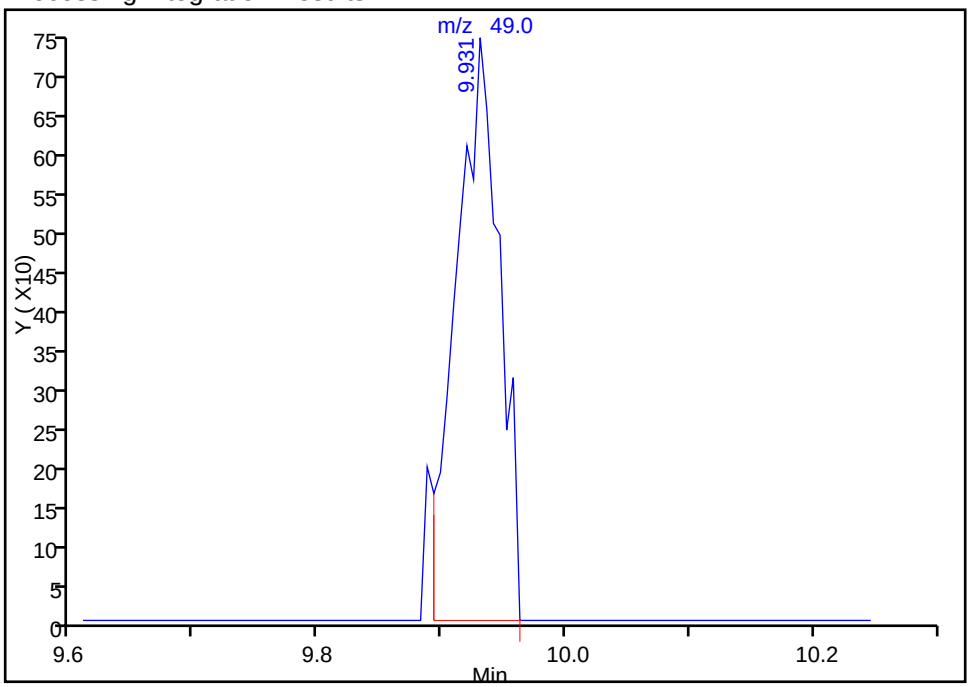
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

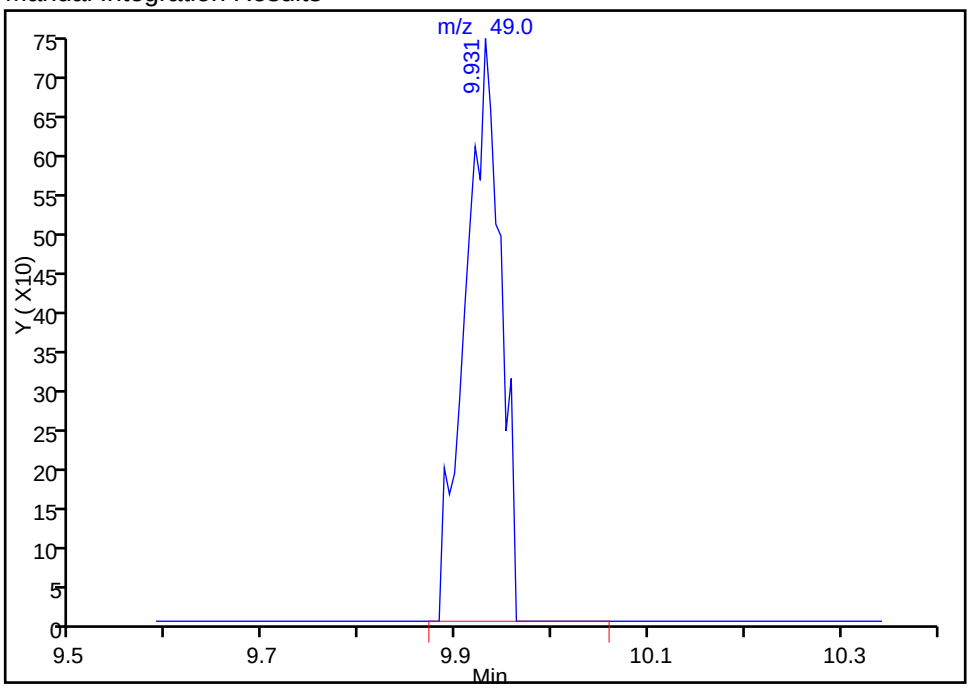
Processing Integration Results

RT: 9.93
Area: 1818
Amount: 0.127463
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 1881
Amount: 0.131880
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

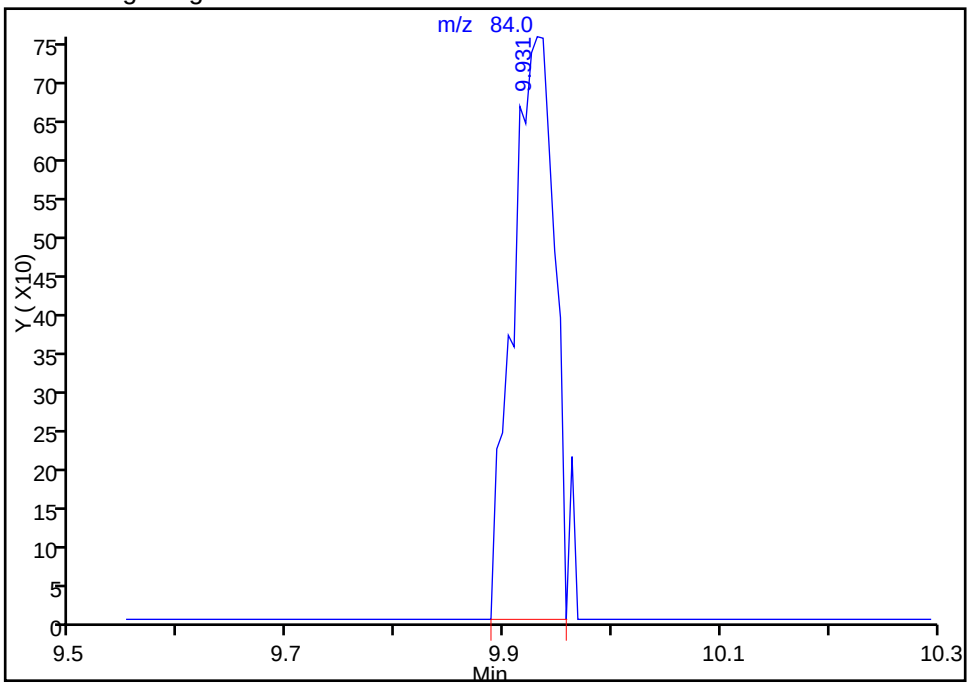
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

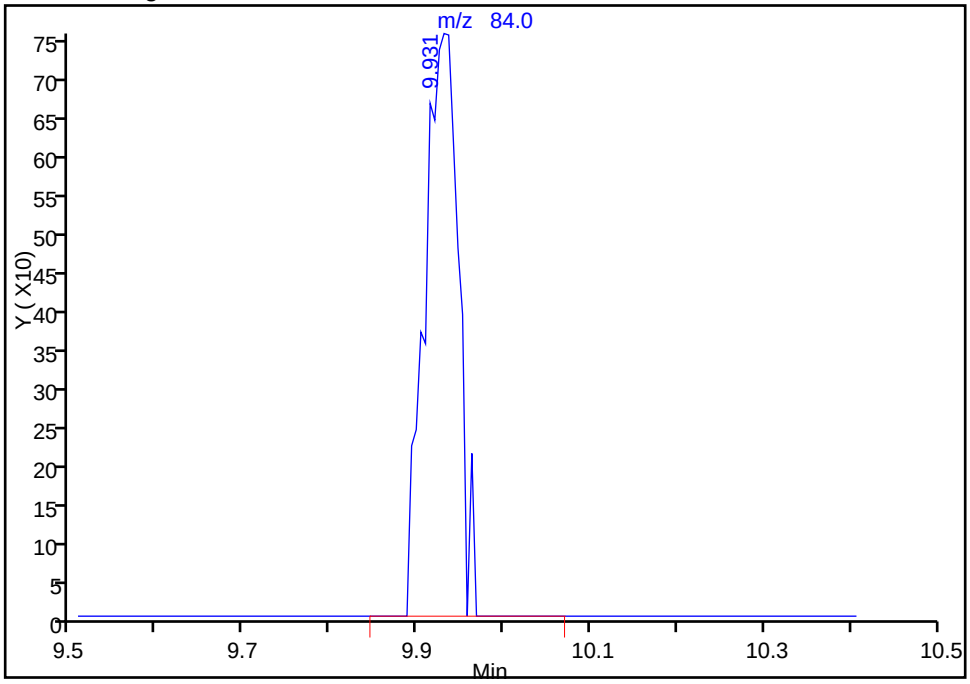
Processing Integration Results

RT: 9.93
Area: 2007
Amount: 0.127463
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 2075
Amount: 0.131880
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

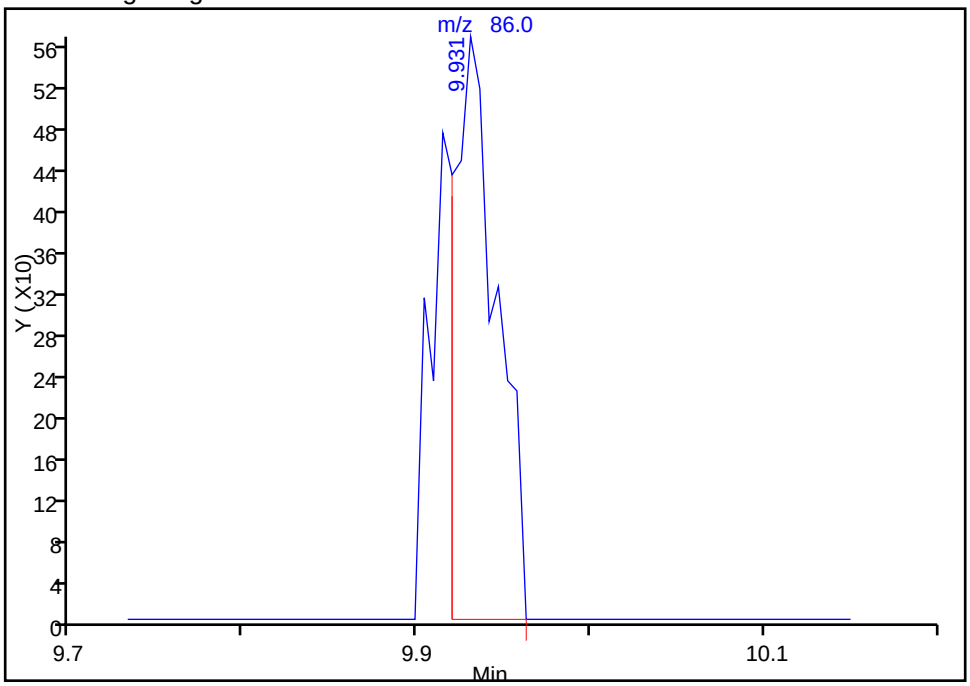
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

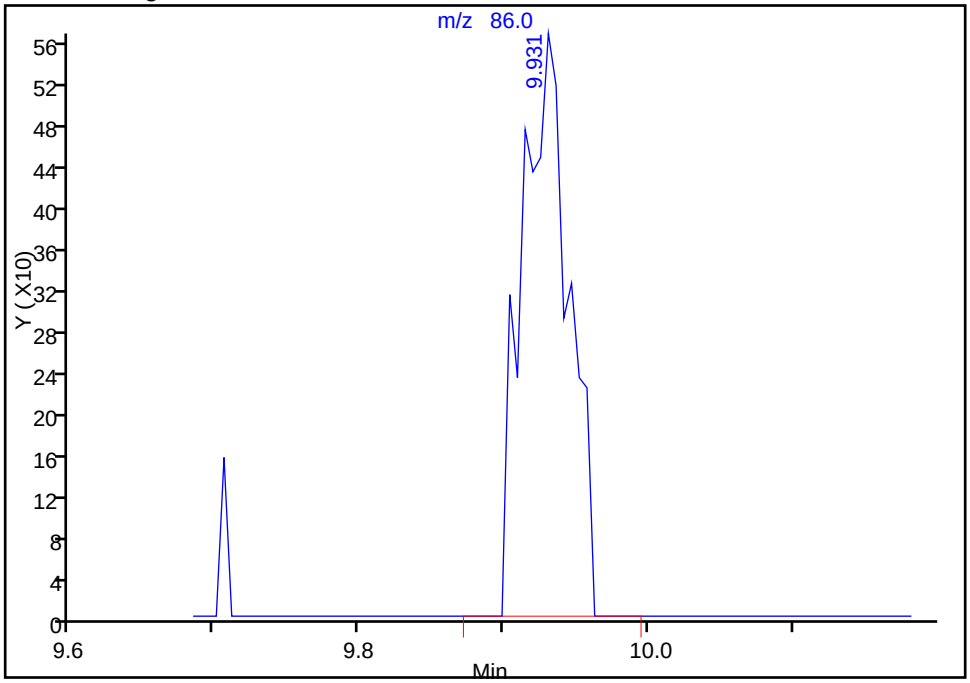
Processing Integration Results

RT: 9.93
Area: 976
Amount: 0.127463
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 1304
Amount: 0.131880
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

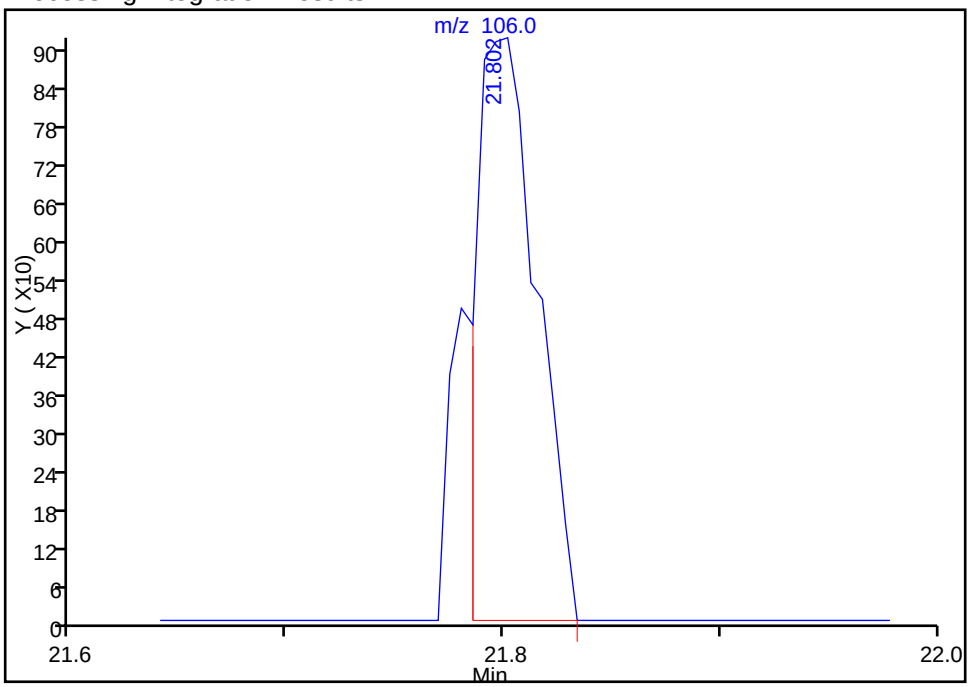
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

79 o-Xylene, CAS: 95-47-6

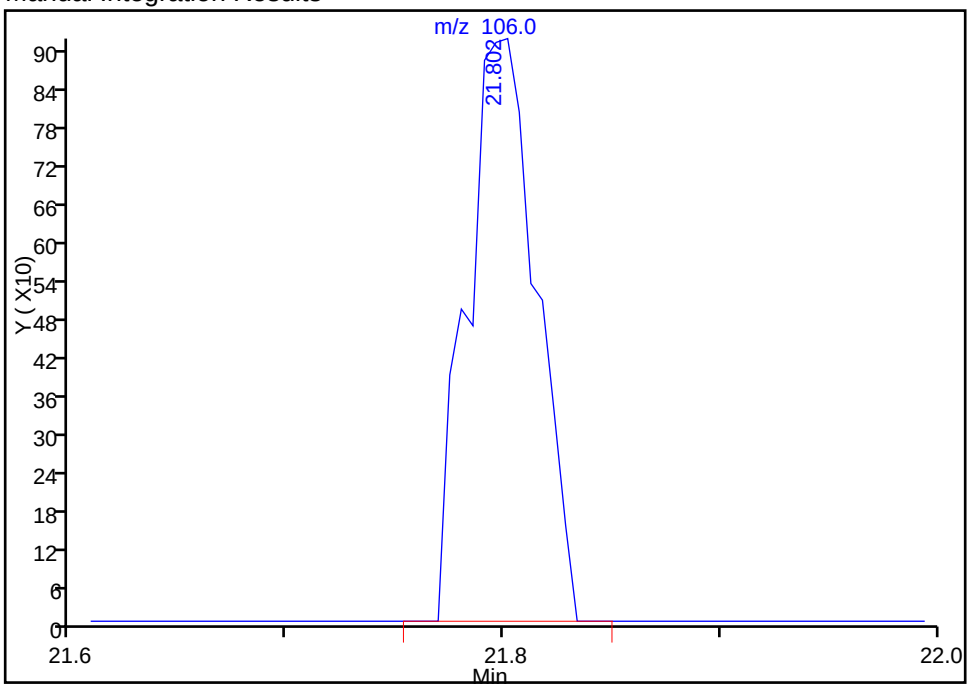
Processing Integration Results

RT: 21.80
Area: 1753
Amount: 0.046617
Amount Units: ppb v/v



Manual Integration Results

RT: 21.80
Area: 2033
Amount: 0.054063
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

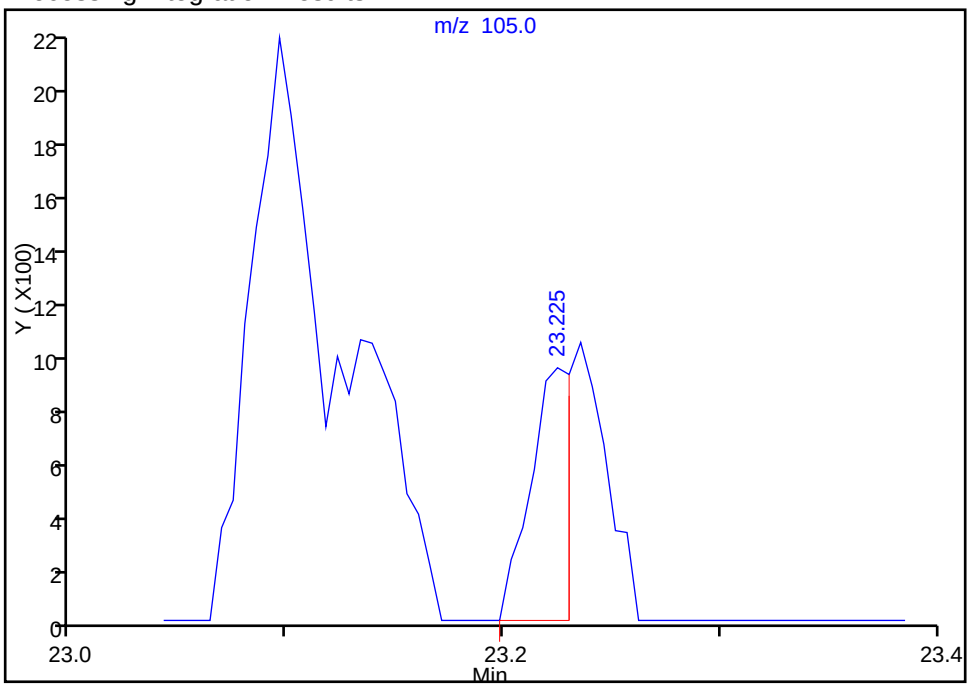
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

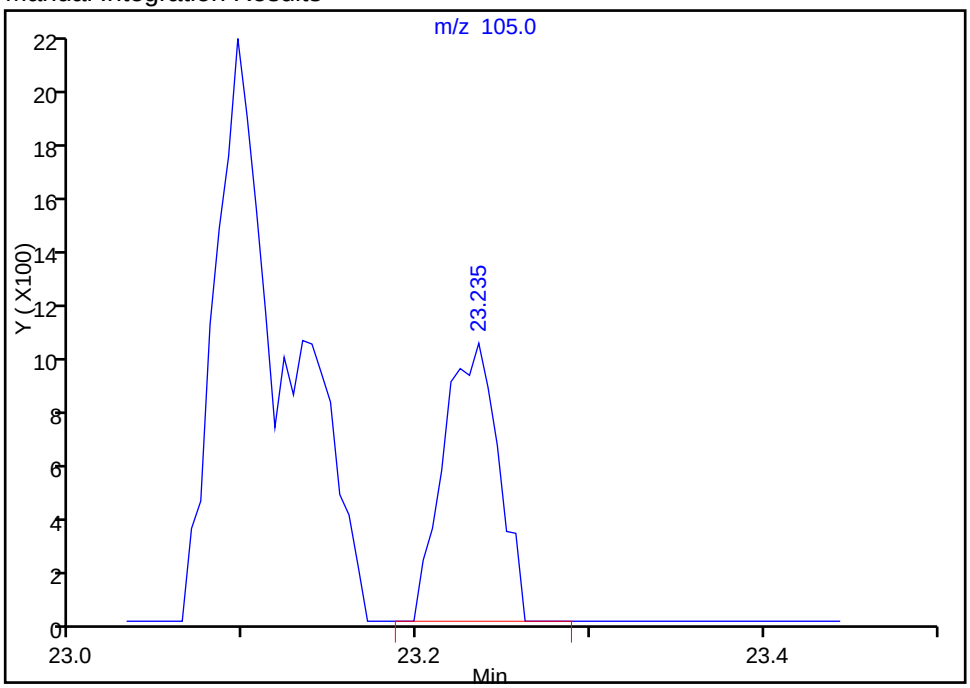
Processing Integration Results

RT: 23.22
Area: 1241
Amount: 0.011271
Amount Units: ppb v/v



Manual Integration Results

RT: 23.24
Area: 2272
Amount: 0.020635
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

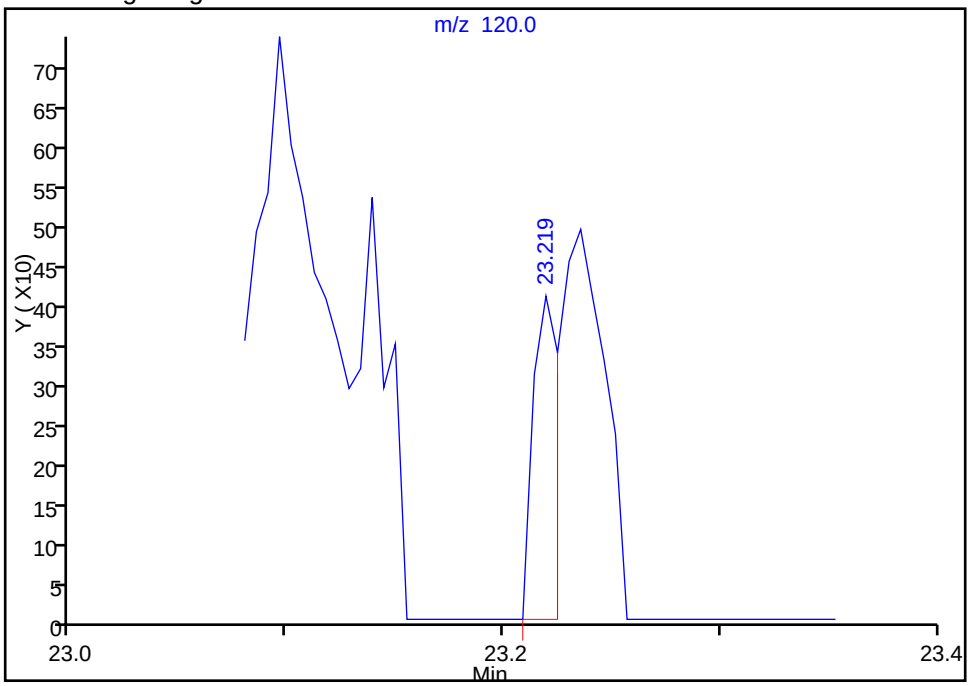
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

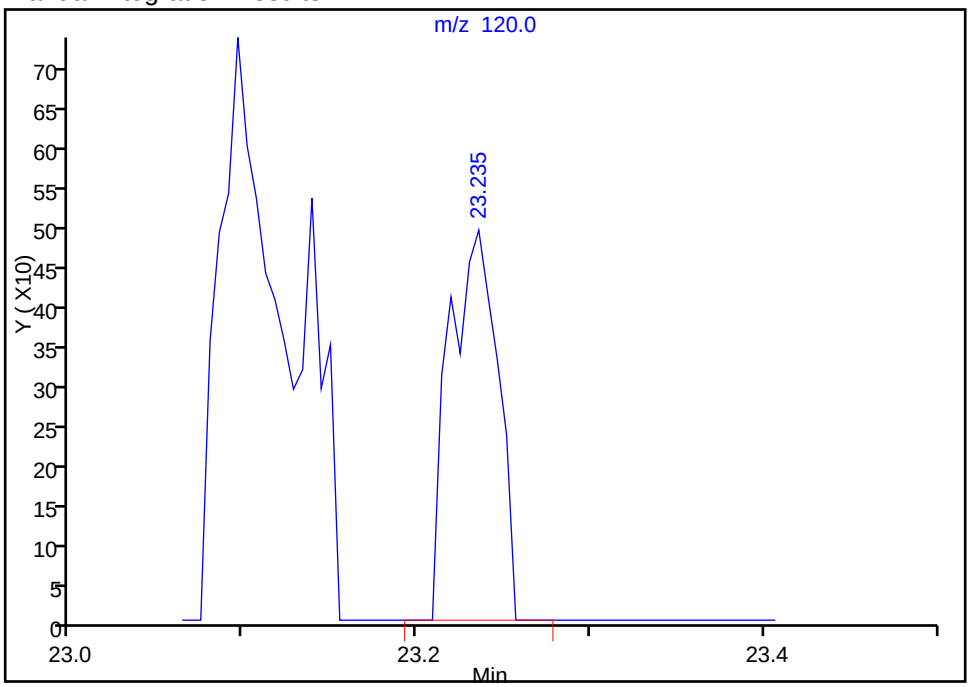
Processing Integration Results

RT: 23.22
Area: 337
Amount: 0.011271
Amount Units: ppb v/v



Manual Integration Results

RT: 23.24
Area: 949
Amount: 0.020635
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

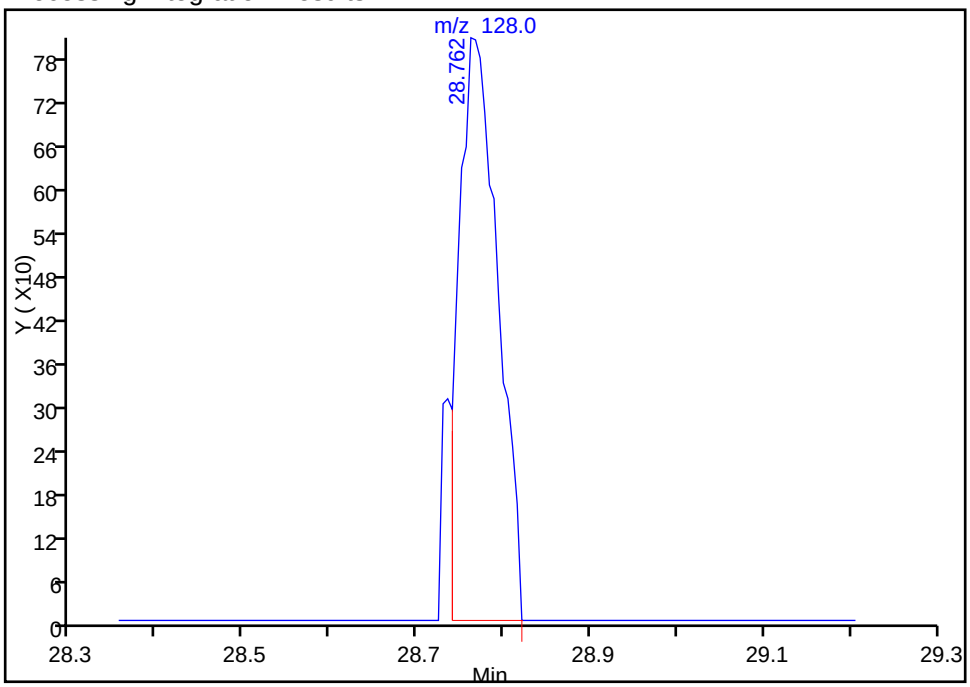
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_011.d				
Injection Date:	30-Sep-2015 19:19:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-18	Lab Sample ID:	200-29972-18		
Client ID:	FR-IA09-092315				
Operator ID:	pad	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	4.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

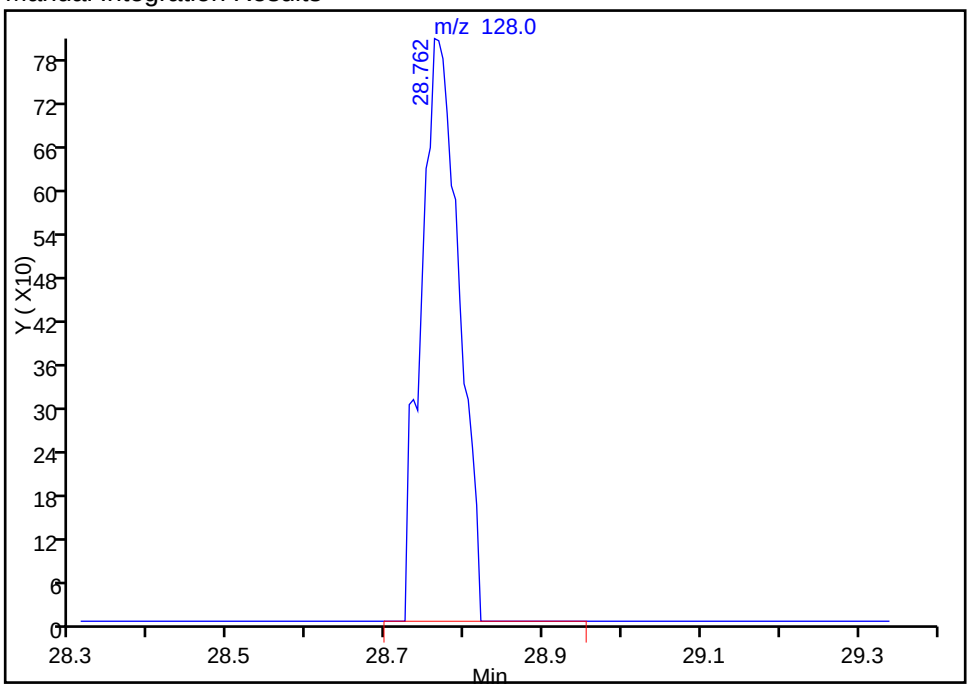
Processing Integration Results

RT: 28.76
Area: 2504
Amount: 0.018144
Amount Units: ppb v/v



Manual Integration Results

RT: 28.76
Area: 2698
Amount: 0.019550
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:24:03
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SSDUP-092315 | Lab Sample ID: 200-29972-19

Matrix: Air | Lab File ID: 16087_24.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 110(mL) | Date Analyzed: 10/06/2015 03:33

Soil Aliquot Vol: | Dilution Factor: 3

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.86	J	1.5	0.24
75-45-6	Freon 22	86.47	0.37	J	1.5	0.17
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.60	U	0.60	0.11
74-87-3	Chloromethane	50.49	1.5	U	1.5	0.28
106-97-8	n-Butane	58.12	1.2	J	1.5	0.23
75-01-4	Vinyl chloride	62.50	0.12	U	0.12	0.096
106-99-0	1,3-Butadiene	54.09	0.60	U	0.60	0.27
74-83-9	Bromomethane	94.94	0.60	U	0.60	0.17
75-00-3	Chloroethane	64.52	1.5	U	1.5	0.26
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.60	U	0.60	0.13
75-69-4	Trichlorofluoromethane	137.37	48		0.60	0.11
76-13-1	Freon TF	187.38	0.39	J	0.60	0.23
75-35-4	1,1-Dichloroethene	96.94	0.19	J	0.60	0.11
67-64-1	Acetone	58.08	4.0	J	15	2.6
67-63-0	Isopropyl alcohol	60.10	15	U	15	2.9
75-15-0	Carbon disulfide	76.14	0.29	J	1.5	0.13
107-05-1	3-Chloropropene	76.53	1.5	U	1.5	0.20
75-09-2	Methylene Chloride	84.93	1.5	U	1.5	0.54
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.60	U	0.60	0.27
156-60-5	trans-1,2-Dichloroethene	96.94	0.60	U	0.60	0.13
110-54-3	n-Hexane	86.17	0.83		0.60	0.16
75-34-3	1,1-Dichloroethane	98.96	1.6		0.60	0.075
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	0.60	U	0.60	0.11
540-59-0	1,2-Dichloroethene, Total	96.94	1.2	U	1.2	0.11
67-66-3	Chloroform	119.38	0.60	U	0.60	0.25
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.2
71-55-6	1,1,1-Trichloroethane	133.41	53		0.60	0.14
110-82-7	Cyclohexane	84.16	1.3		0.60	0.12
56-23-5	Carbon tetrachloride	153.81	0.12	U	0.12	0.096
540-84-1	2,2,4-Trimethylpentane	114.23	0.60	U	0.60	0.12
71-43-2	Benzene	78.11	0.33	J	0.60	0.13
107-06-2	1,2-Dichloroethane	98.96	0.60	U	0.60	0.12

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SSDUP-092315 | Lab Sample ID: 200-29972-19

Matrix: Air | Lab File ID: 16087_24.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 110(mL) | Date Analyzed: 10/06/2015 03:33

Soil Aliquot Vol: | Dilution Factor: 3

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.43	J	0.60	0.12
79-01-6	Trichloroethene	131.39	11		0.12	0.12
80-62-6	Methyl methacrylate	100.12	1.5	U	1.5	0.12
78-87-5	1,2-Dichloropropane	112.99	0.60	U	0.60	0.081
123-91-1	1,4-Dioxane	88.11	15	U	15	1.7
75-27-4	Bromodichloromethane	163.83	0.60	U	0.60	0.090
10061-01-5	cis-1,3-Dichloropropene	110.97	0.60	U	0.60	0.069
108-10-1	methyl isobutyl ketone	100.16	0.18	J	1.5	0.15
108-88-3	Toluene	92.14	0.78		0.60	0.28
10061-02-6	trans-1,3-Dichloropropene	110.97	0.60	U	0.60	0.10
79-00-5	1,1,2-Trichloroethane	133.41	0.60	U	0.60	0.12
127-18-4	Tetrachloroethene	165.83	0.39	J	0.60	0.069
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.5	U	1.5	0.17
124-48-1	Dibromochloromethane	208.29	0.60	U	0.60	0.13
106-93-4	1,2-Dibromoethane	187.87	0.60	U	0.60	0.12
108-90-7	Chlorobenzene	112.56	0.60	U	0.60	0.15
100-41-4	Ethylbenzene	106.17	0.10	J	0.60	0.099
179601-23-1	m,p-Xylene	106.17	0.58	J	1.5	0.21
95-47-6	Xylene, o-	106.17	0.15	J	0.60	0.11
1330-20-7	Xylene (total)	106.17	0.73	J	2.1	0.11
100-42-5	Styrene	104.15	0.60	U	0.60	0.13
75-25-2	Bromoform	252.75	0.60	U	0.60	0.17
98-82-8	Cumene	120.19	0.098	J	0.60	0.090
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.60	U	0.60	0.13
103-65-1	n-Propylbenzene	120.19	0.60	U	0.60	0.13
622-96-8	4-Ethyltoluene	120.20	0.60	U	0.60	0.13
108-67-8	1,3,5-Trimethylbenzene	120.20	0.60	U	0.60	0.12
95-49-8	2-Chlorotoluene	126.59	0.60	U	0.60	0.099
98-06-6	tert-Butylbenzene	134.22	0.60	U	0.60	0.13
95-63-6	1,2,4-Trimethylbenzene	120.20	0.60	U	0.60	0.13
135-98-8	sec-Butylbenzene	134.22	0.60	U	0.60	0.13
99-87-6	4-Isopropyltoluene	134.22	0.60	U	0.60	0.11
541-73-1	1,3-Dichlorobenzene	147.00	0.60	U	0.60	0.17
106-46-7	1,4-Dichlorobenzene	147.00	0.60	U	0.60	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SSDUP-092315 Lab Sample ID: 200-29972-19

Matrix: Air Lab File ID: 16087_24.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 110(mL) Date Analyzed: 10/06/2015 03:33

Soil Aliquot Vol: Dilution Factor: 3

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.60	U	0.60	0.16
104-51-8	n-Butylbenzene	134.22	0.60	U	0.60	0.14
95-50-1	1,2-Dichlorobenzene	147.00	0.60	U	0.60	0.17
120-82-1	1,2,4-Trichlorobenzene	181.45	1.5	U	1.5	0.20
87-68-3	Hexachlorobutadiene	260.76	0.60	U	0.60	0.25
91-20-3	Naphthalene	128.17	1.5	U	1.5	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SSDUP-092315 | Lab Sample ID: 200-29972-19

Matrix: Air | Lab File ID: 16087_24.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 110(mL) | Date Analyzed: 10/06/2015 03:33

Soil Aliquot Vol: | Dilution Factor: 3

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	4.2	J	7.4	1.2
75-45-6	Freon 22	86.47	1.3	J	5.3	0.60
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	4.2	U	4.2	0.80
74-87-3	Chloromethane	50.49	3.1	U	3.1	0.58
106-97-8	n-Butane	58.12	2.9	J	3.6	0.56
75-01-4	Vinyl chloride	62.50	0.31	U	0.31	0.25
106-99-0	1,3-Butadiene	54.09	1.3	U	1.3	0.59
74-83-9	Bromomethane	94.94	2.3	U	2.3	0.65
75-00-3	Chloroethane	64.52	4.0	U	4.0	0.67
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.6	U	2.6	0.58
75-69-4	Trichlorofluoromethane	137.37	270		3.4	0.64
76-13-1	Freon TF	187.38	3.0	J	4.6	1.7
75-35-4	1,1-Dichloroethene	96.94	0.75	J	2.4	0.43
67-64-1	Acetone	58.08	9.4	J	36	6.1
67-63-0	Isopropyl alcohol	60.10	37	U	37	7.2
75-15-0	Carbon disulfide	76.14	0.89	J	4.7	0.40
107-05-1	3-Chloropropene	76.53	4.7	U	4.7	0.64
75-09-2	Methylene Chloride	84.93	5.2	U	5.2	1.9
75-65-0	tert-Butyl alcohol	74.12	45	U	45	7.7
1634-04-4	Methyl tert-butyl ether	88.15	2.2	U	2.2	0.96
156-60-5	trans-1,2-Dichloroethene	96.94	2.4	U	2.4	0.51
110-54-3	n-Hexane	86.17	2.9		2.1	0.57
75-34-3	1,1-Dichloroethane	98.96	6.5		2.4	0.30
78-93-3	Methyl Ethyl Ketone	72.11	4.4	U	4.4	0.46
156-59-2	cis-1,2-Dichloroethene	96.94	2.4	U	2.4	0.42
540-59-0	1,2-Dichloroethene, Total	96.94	4.8	U	4.8	0.42
67-66-3	Chloroform	119.38	2.9	U	2.9	1.2
109-99-9	Tetrahydrofuran	72.11	44	U	44	12
71-55-6	1,1,1-Trichloroethane	133.41	290		3.3	0.75
110-82-7	Cyclohexane	84.16	4.4		2.1	0.40
56-23-5	Carbon tetrachloride	153.81	0.75	U	0.75	0.60
540-84-1	2,2,4-Trimethylpentane	114.23	2.8	U	2.8	0.55
71-43-2	Benzene	78.11	1.0	J	1.9	0.40
107-06-2	1,2-Dichloroethane	98.96	2.4	U	2.4	0.50

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SSDUP-092315 | Lab Sample ID: 200-29972-19

Matrix: Air | Lab File ID: 16087_24.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:31

Sample wt/vol: 110(mL) | Date Analyzed: 10/06/2015 03:33

Soil Aliquot Vol: | Dilution Factor: 3

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.8	J	2.5	0.49
79-01-6	Trichloroethene	131.39	57		0.64	0.63
80-62-6	Methyl methacrylate	100.12	6.1	U	6.1	0.49
78-87-5	1,2-Dichloropropane	112.99	2.8	U	2.8	0.37
123-91-1	1,4-Dioxane	88.11	54	U	54	6.1
75-27-4	Bromodichloromethane	163.83	4.0	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	110.97	2.7	U	2.7	0.31
108-10-1	methyl isobutyl ketone	100.16	0.76	J	6.1	0.61
108-88-3	Toluene	92.14	3.0		2.3	1.1
10061-02-6	trans-1,3-Dichloropropene	110.97	2.7	U	2.7	0.46
79-00-5	1,1,2-Trichloroethane	133.41	3.3	U	3.3	0.64
127-18-4	Tetrachloroethene	165.83	2.7	J	4.1	0.47
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	6.1	U	6.1	0.70
124-48-1	Dibromochloromethane	208.29	5.1	U	5.1	1.1
106-93-4	1,2-Dibromoethane	187.87	4.6	U	4.6	0.90
108-90-7	Chlorobenzene	112.56	2.8	U	2.8	0.68
100-41-4	Ethylbenzene	106.17	0.44	J	2.6	0.43
179601-23-1	m,p-Xylene	106.17	2.5	J	6.5	0.92
95-47-6	Xylene, o-	106.17	0.66	J	2.6	0.48
1330-20-7	Xylene (total)	106.17	3.2	J	9.1	0.48
100-42-5	Styrene	104.15	2.6	U	2.6	0.55
75-25-2	Bromoform	252.75	6.2	U	6.2	1.7
98-82-8	Cumene	120.19	0.48	J	2.9	0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	4.1	U	4.1	0.91
103-65-1	n-Propylbenzene	120.19	2.9	U	2.9	0.63
622-96-8	4-Ethyltoluene	120.20	2.9	U	2.9	0.65
108-67-8	1,3,5-Trimethylbenzene	120.20	2.9	U	2.9	0.58
95-49-8	2-Chlorotoluene	126.59	3.1	U	3.1	0.51
98-06-6	tert-Butylbenzene	134.22	3.3	U	3.3	0.72
95-63-6	1,2,4-Trimethylbenzene	120.20	2.9	U	2.9	0.63
135-98-8	sec-Butylbenzene	134.22	3.3	U	3.3	0.72
99-87-6	4-Isopropyltoluene	134.22	3.3	U	3.3	0.61
541-73-1	1,3-Dichlorobenzene	147.00	3.6	U	3.6	0.99
106-46-7	1,4-Dichlorobenzene	147.00	3.6	U	3.6	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SSDUP-092315 Lab Sample ID: 200-29972-19

Matrix: Air Lab File ID: 16087_24.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:31

Sample wt/vol: 110(mL) Date Analyzed: 10/06/2015 03:33

Soil Aliquot Vol: Dilution Factor: 3

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	3.1	U	3.1	0.82
104-51-8	n-Butylbenzene	134.22	3.3	U	3.3	0.77
95-50-1	1,2-Dichlorobenzene	147.00	3.6	U	3.6	0.99
120-82-1	1,2,4-Trichlorobenzene	181.45	11	U	11	1.5
87-68-3	Hexachlorobutadiene	260.76	6.4	U	6.4	2.6
91-20-3	Naphthalene	128.17	7.9	U	7.9	0.90

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D
Lims ID: 200-29972-A-19 Lab Sample ID: 200-29972-19
Client ID: FR-SSDUP-092315
Sample Type: Client
Inject. Date: 06-Oct-2015 03:33:30 ALS Bottle#: 5 Worklist Smp#: 24
Purge Vol: 200.000 mL Dil. Factor: 3.0000
Sample Info: 200-0016087-024
Misc. Info.: 29972-19
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 11:49:57 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 11:49:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.172	3.172	0.000	98	7432	0.2861	
3 Chlorodifluoromethane	51	3.231	3.226	0.005	82	1552	0.1235	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50		3.579				ND	
6 Butane	43	3.766	3.771	-0.005	97	4951	0.4124	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.253	5.259	-0.006	98	459130	16.0	
18 1,1,2-Trichloro-1,2,2-trif	101	6.285	6.312	-0.011	1	2948	0.1285	M
20 1,1-Dichloroethene	96	6.355	6.350	0.005	72	679	0.0633	
21 Acetone	43	6.697	6.612	0.085	88	15430	1.32	
22 Carbon disulfide	76	6.746	6.746	0.000	95	2588	0.0950	
23 Isopropyl alcohol	45		6.922				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.414	7.414	0.000	82	1662	0.1689	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.206	8.212	-0.006	89	4050	0.2770	
33 1,1-Dichloroethane	63	8.704	8.709	-0.005	98	9943	0.5349	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72		9.881				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.276	10.282	-0.006	74	133537	10.0	
39 Tetrahydrofuran	42	10.431	10.298	0.133	57	1382	0.1329	
41 Chloroform	83		10.410				ND	
42 Cyclohexane	84	10.678	10.635	0.027	37	7759	0.4246	M
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	96	467457	17.6	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117		10.929				ND	
	45 Isooctane	57		11.368				ND	
	46 Benzene	78	11.410	11.411	-0.001	84	4643	0.1089	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43	11.758	11.753	0.005	49	2938	0.1428	
*	50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	92	730044	10.0	
	52 Trichloroethene	95	12.737	12.743	-0.006	93	75457	3.51	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83		13.904				ND	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43	15.252	15.193	0.059	39	1717	0.0616	
	62 Toluene	92	15.471	15.476	-0.005	93	9887	0.2610	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.573	16.579	-0.006	93	4918	0.1304	
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.445	18.446	-0.001	82	743996	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91	18.649	18.649	0.000	91	2747	0.0336	
	77 m-Xylene & p-Xylene	106	18.895	18.906	-0.011	98	6627	0.1924	
	78 o-Xylene	106	19.713	19.719	-0.006	92	1715	0.0504	
	79 Styrene	104		19.767				ND	
S	80 Xylenes, Total	106				0		0.2428	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105	20.355	20.355	0.000	89	3166	0.0326	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91		21.035				ND	
	89 4-Ethyltoluene	105		21.217				ND	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105		21.318				ND	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105	21.875	21.880	-0.006	89	1629	0.0201	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119		22.297				ND	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91		22.886				ND	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128	26.202	26.197	0.005	96	2873	0.0275	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

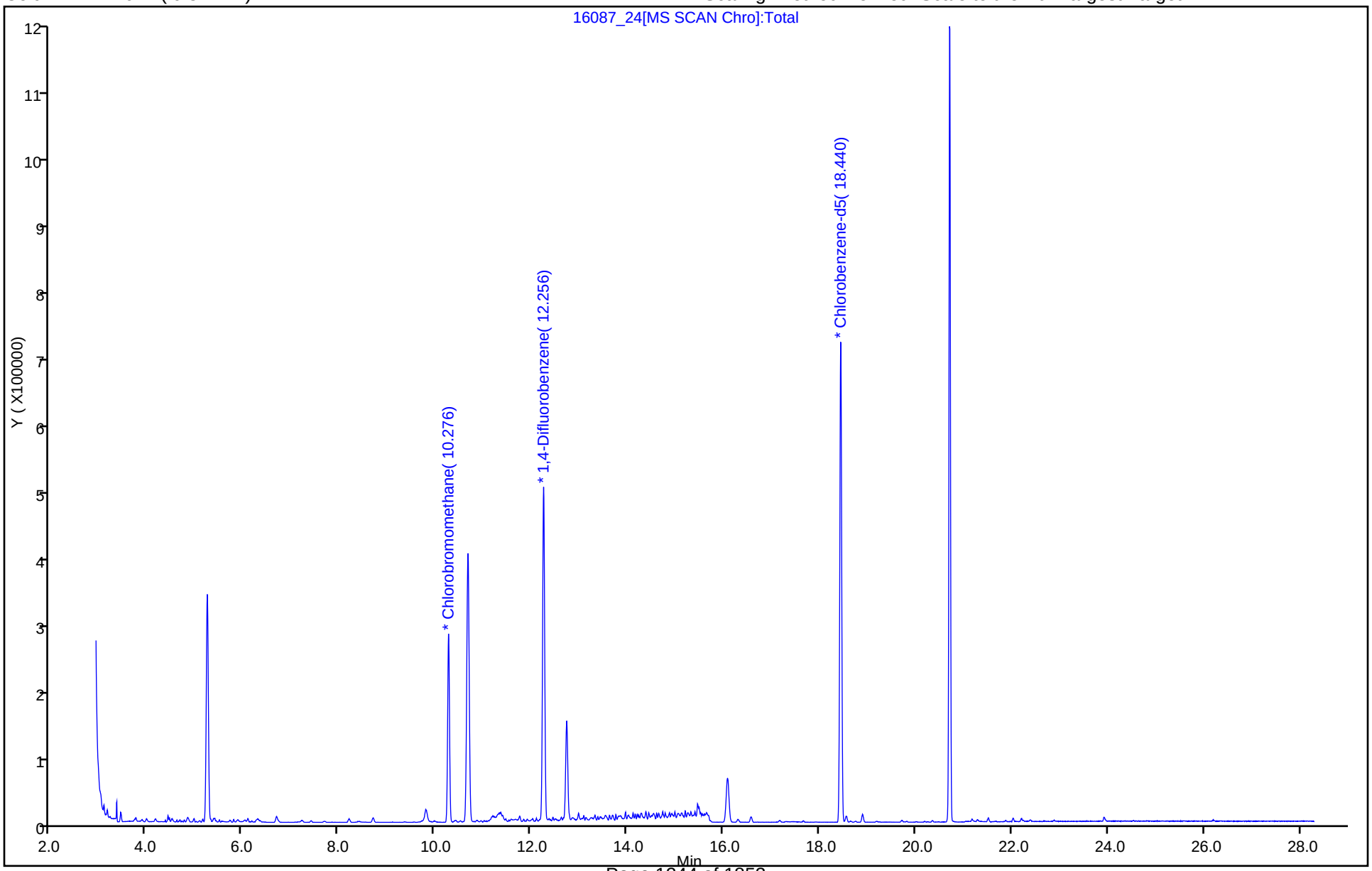
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19	Worklist Smp#:	24
Client ID:	FR-SSDUP-092315				
Purge Vol:	200.000 mL	Dil. Factor:	3.0000	ALS Bottle#:	5
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



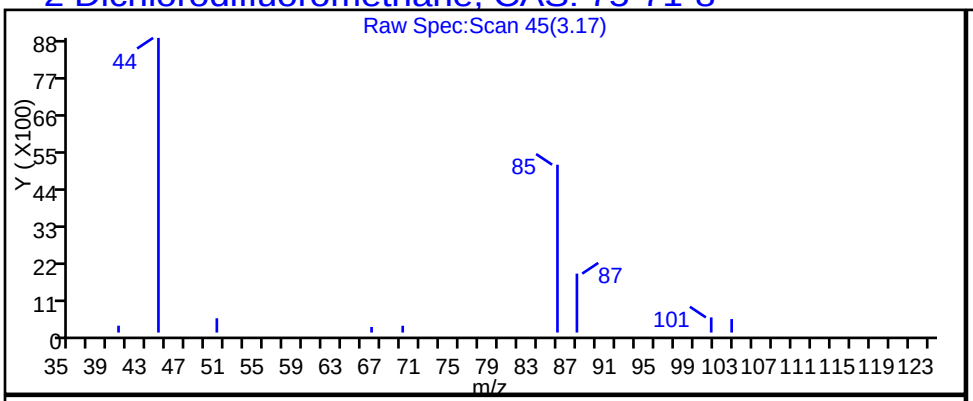
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

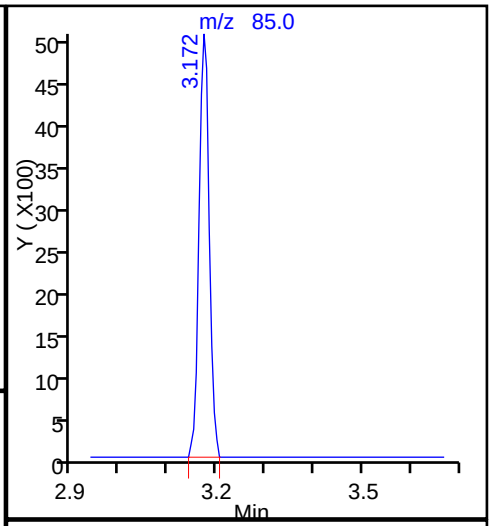
TestAmerica Burlington

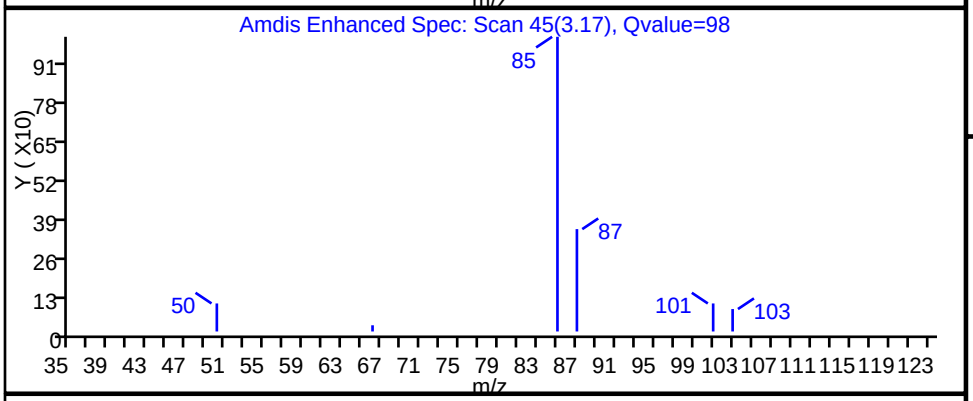
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

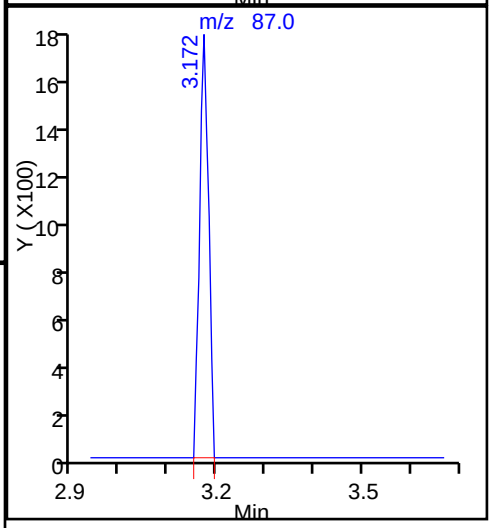
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

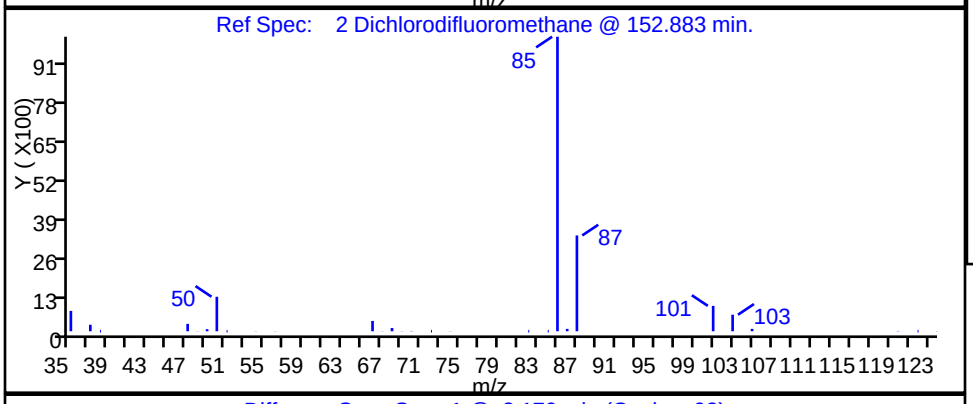
2 Dichlorodifluoromethane, CAS: 75-71-8

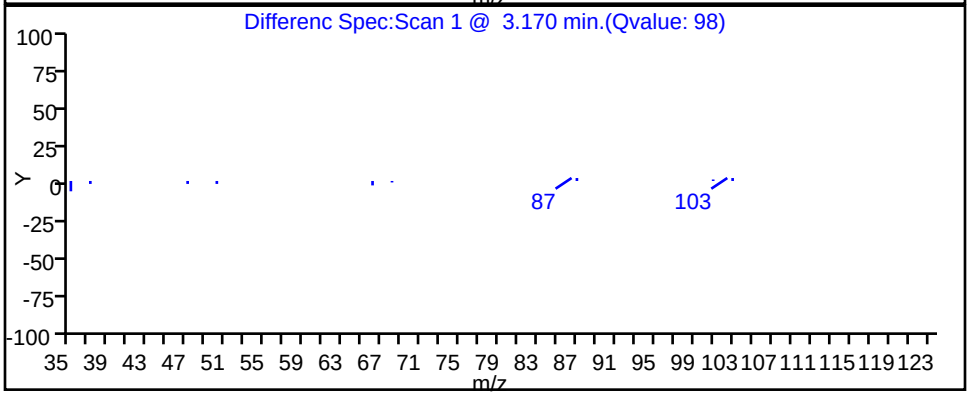












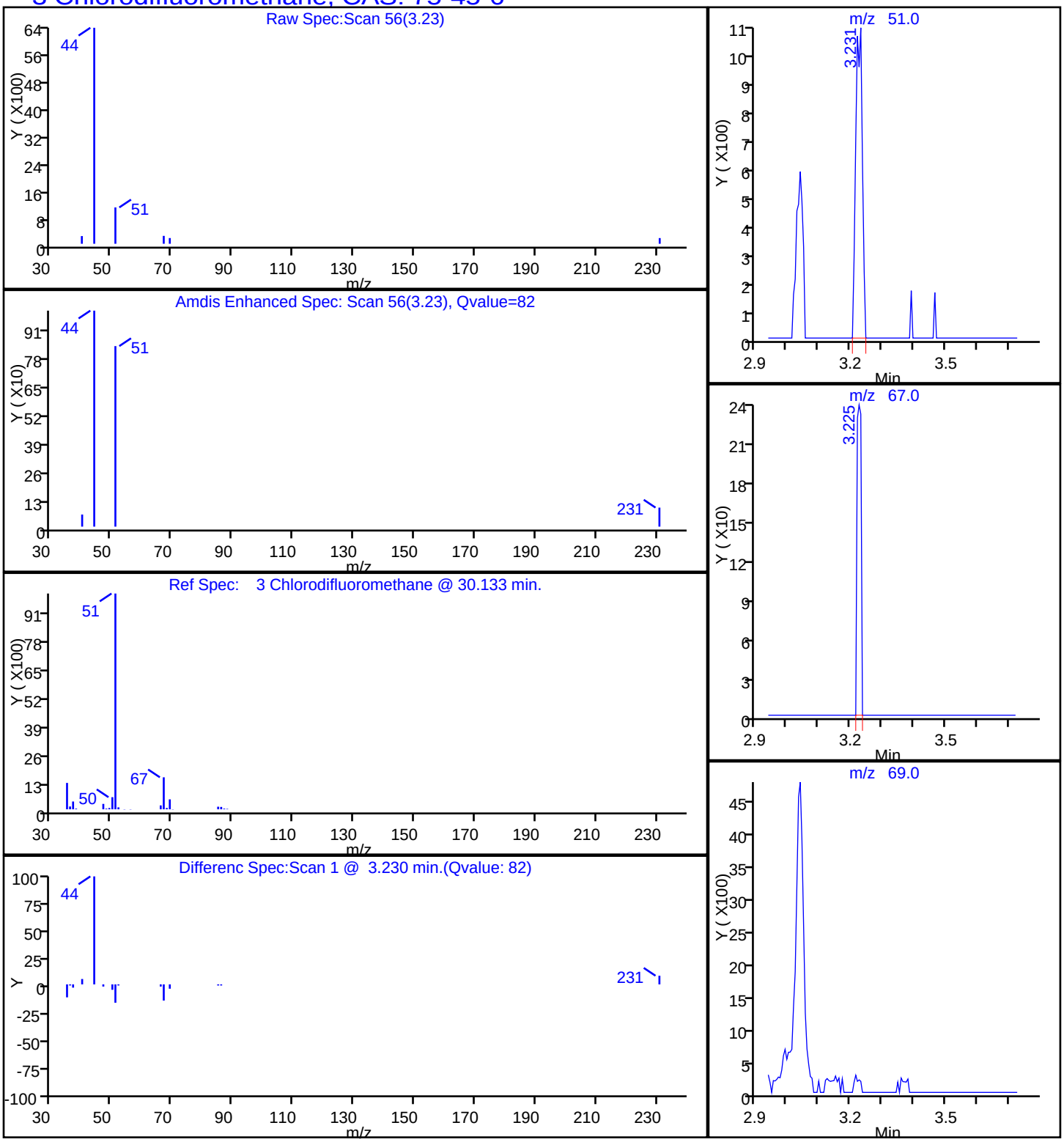
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6



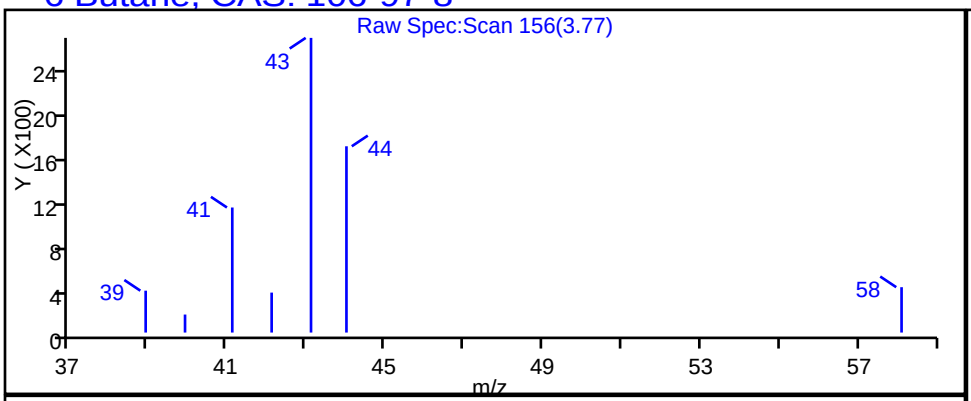
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

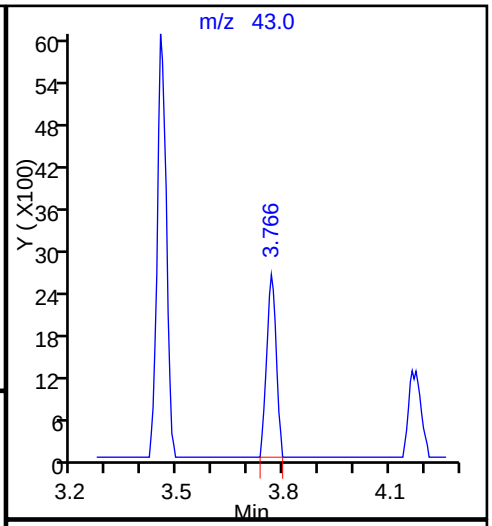
TestAmerica Burlington

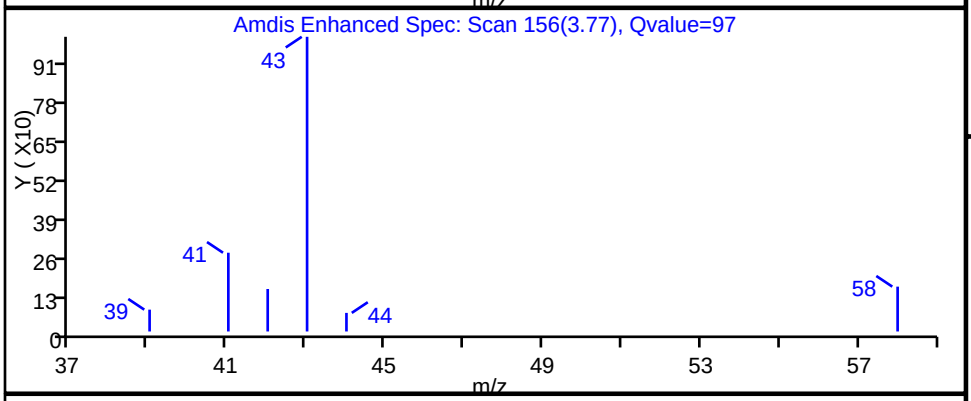
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

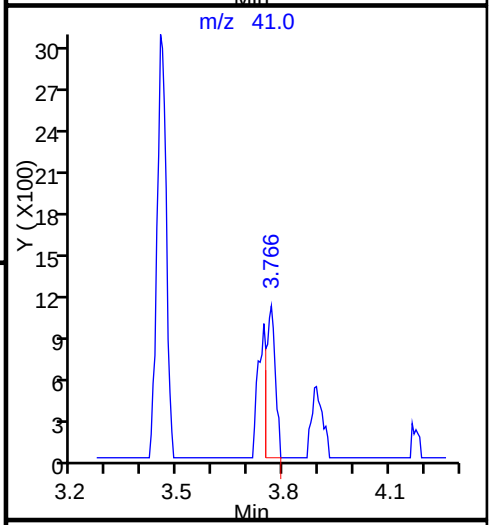
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

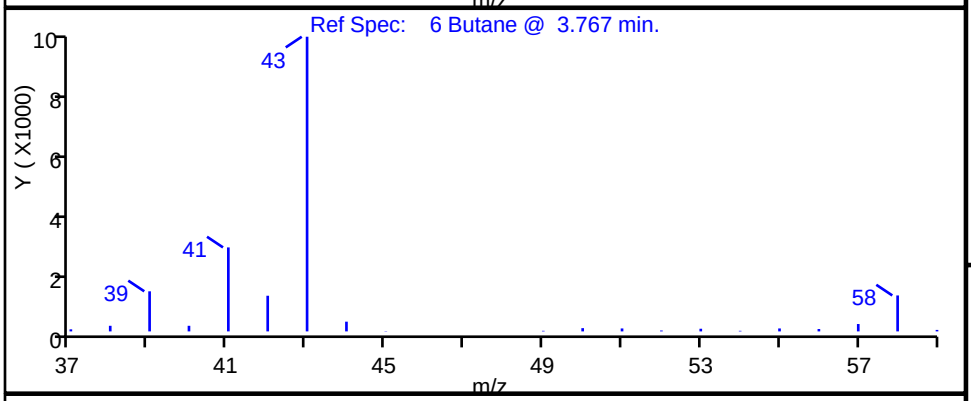
6 Butane, CAS: 106-97-8

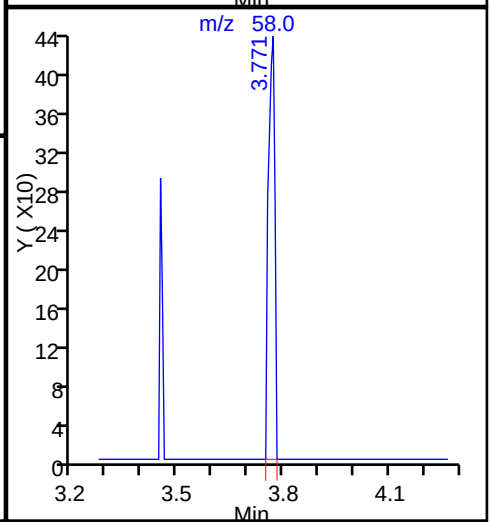


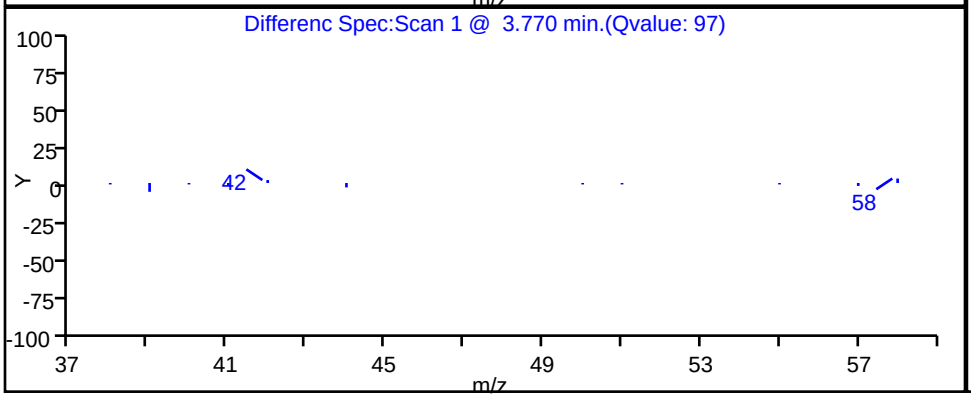












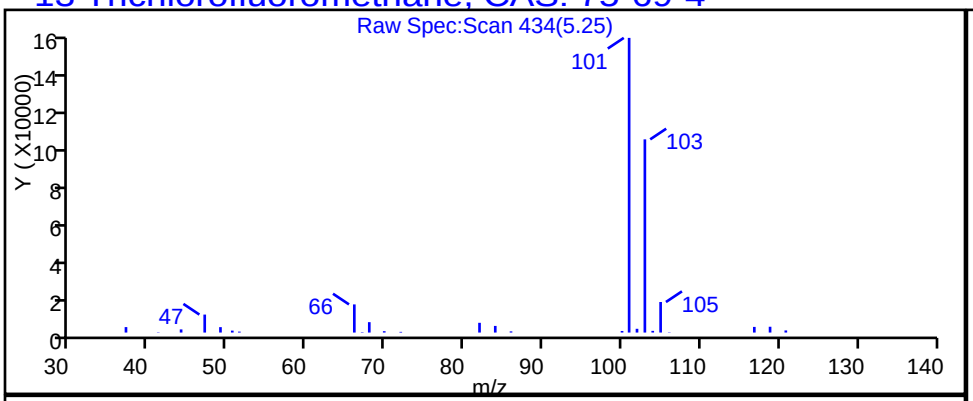
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

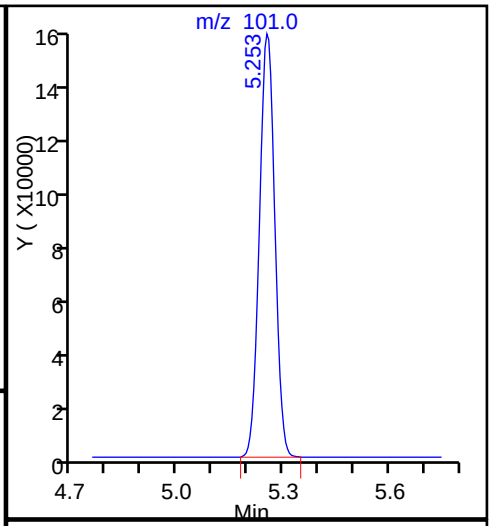
TestAmerica Burlington

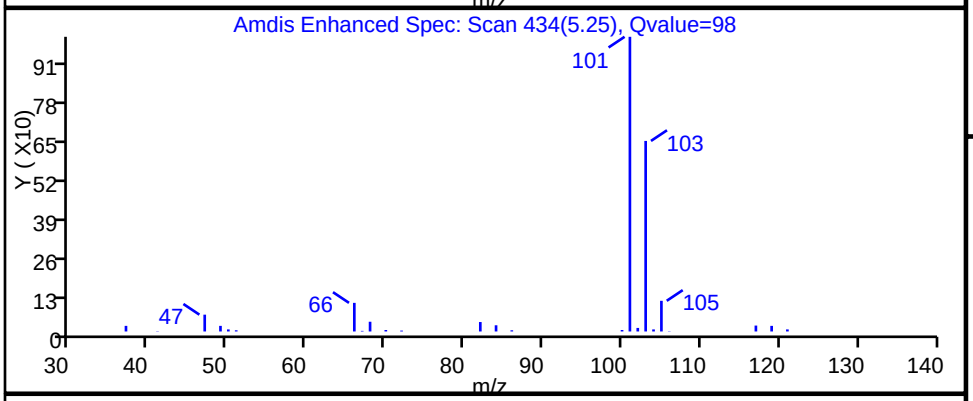
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

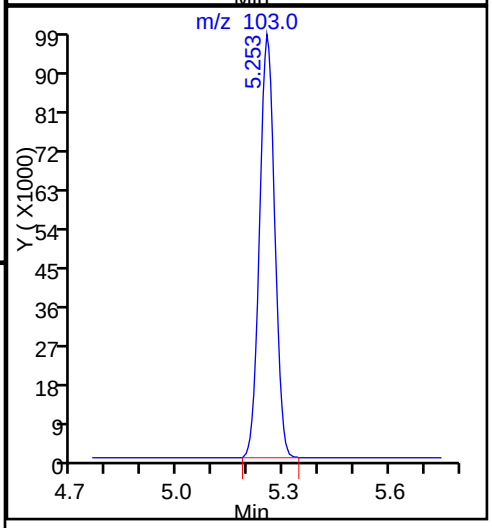
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

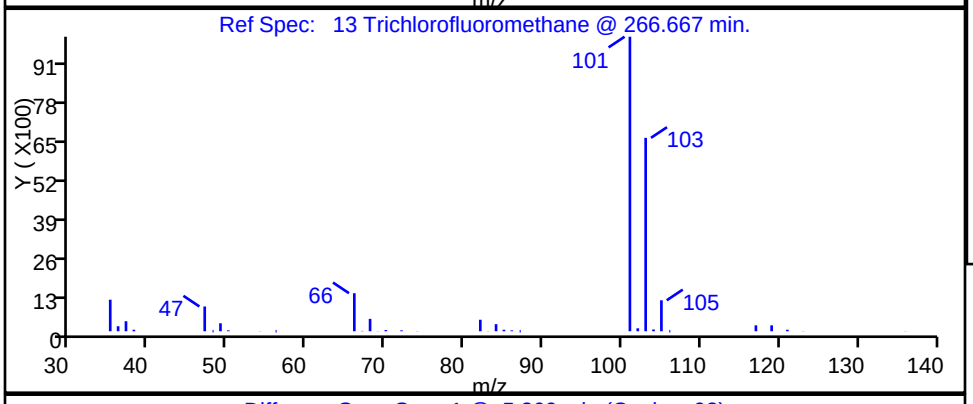
13 Trichlorofluoromethane, CAS: 75-69-4

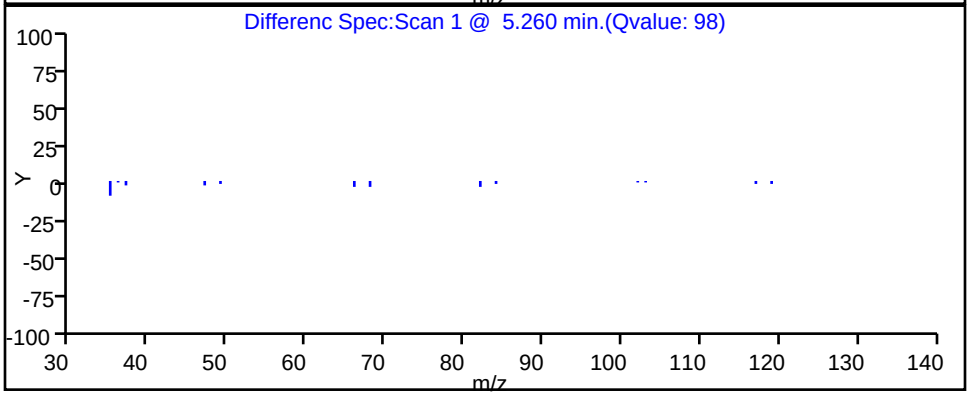












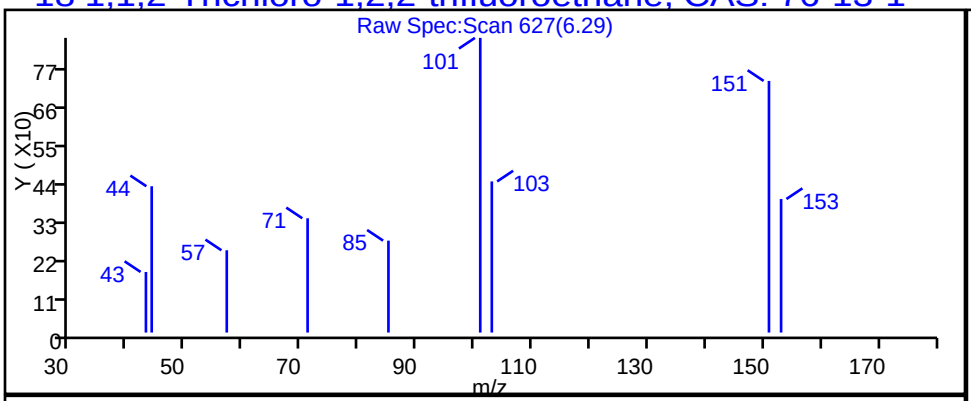
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

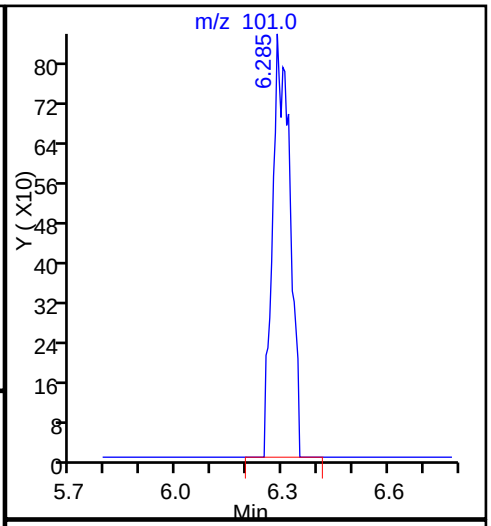
TestAmerica Burlington

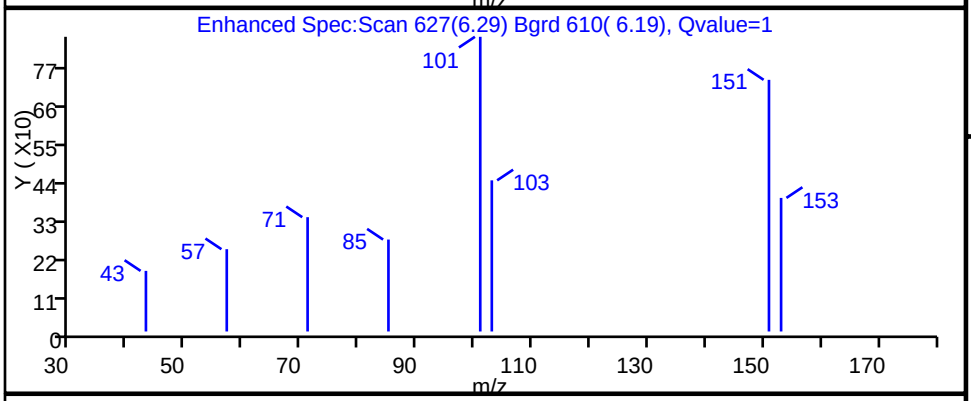
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

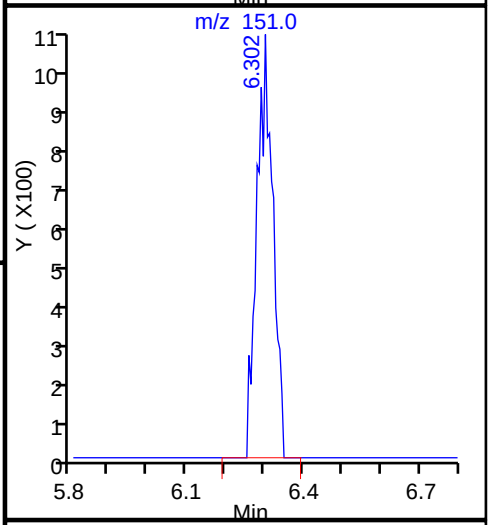
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

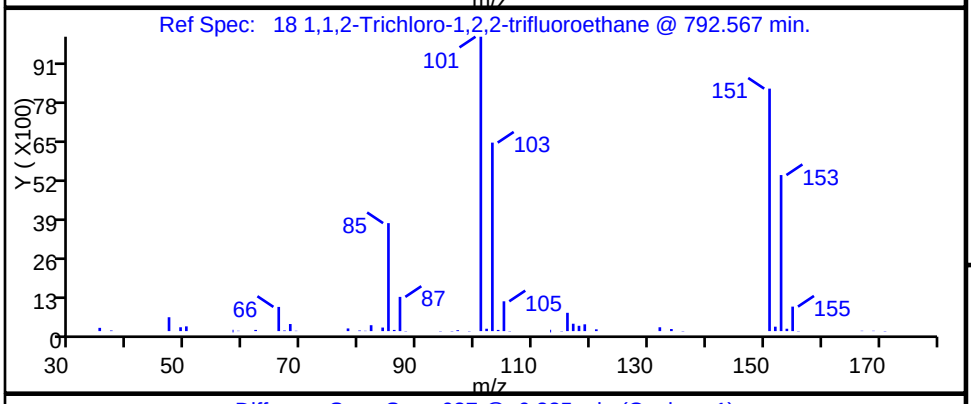
18 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

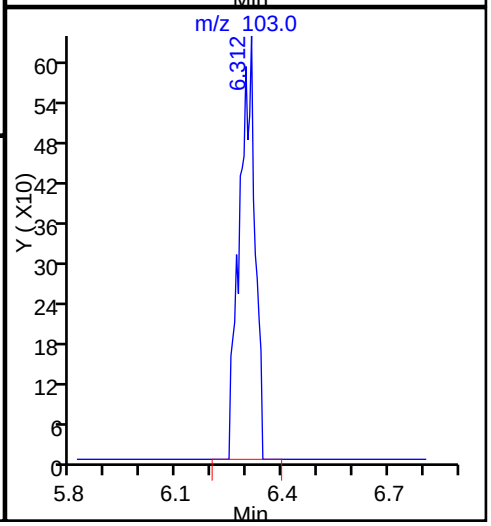


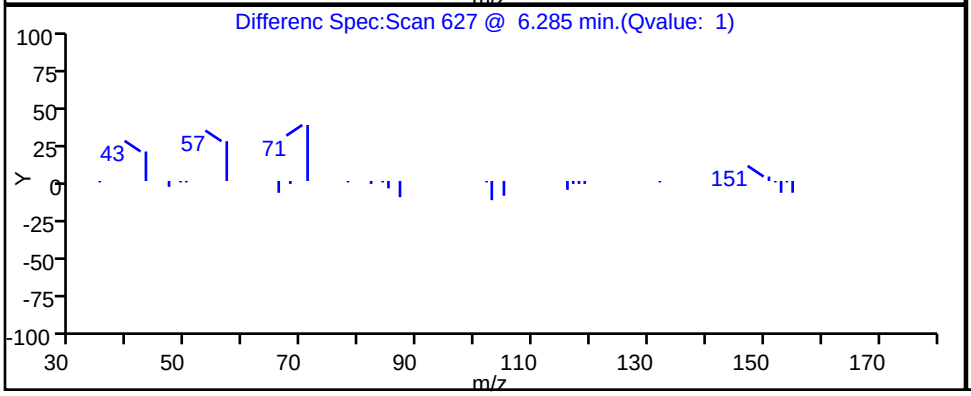












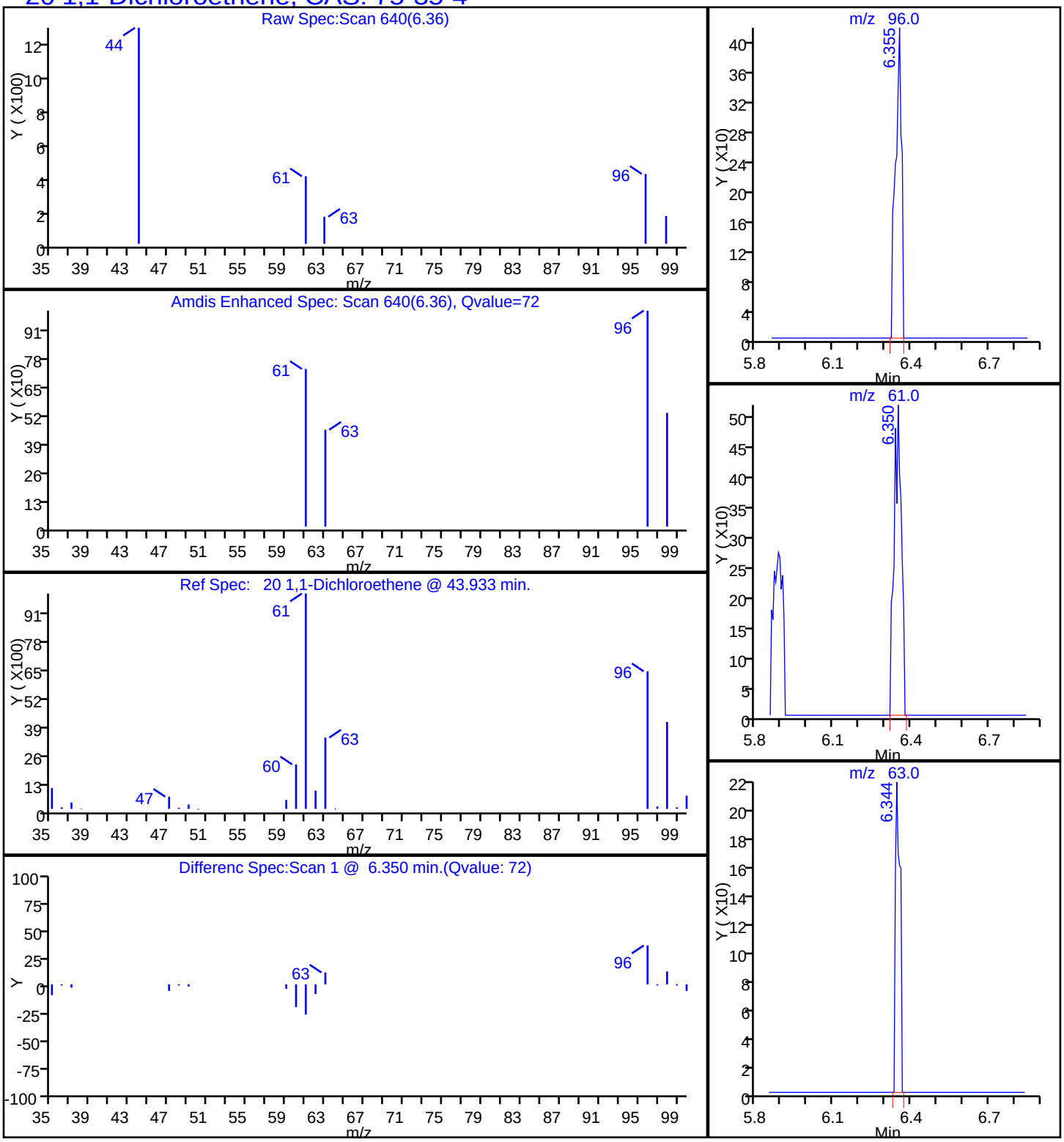
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4



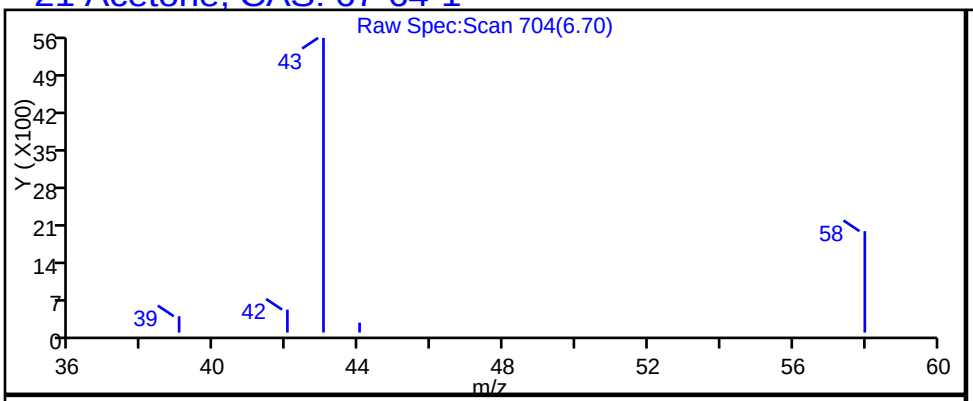
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

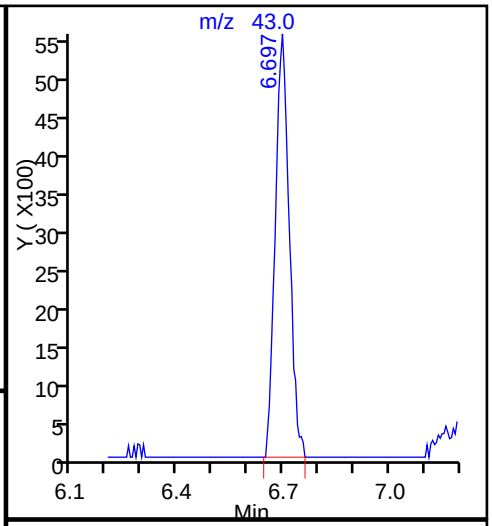
TestAmerica Burlington

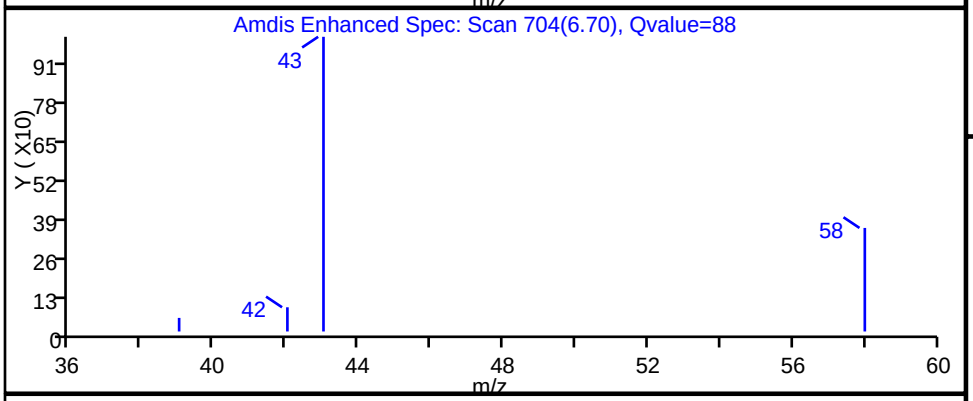
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

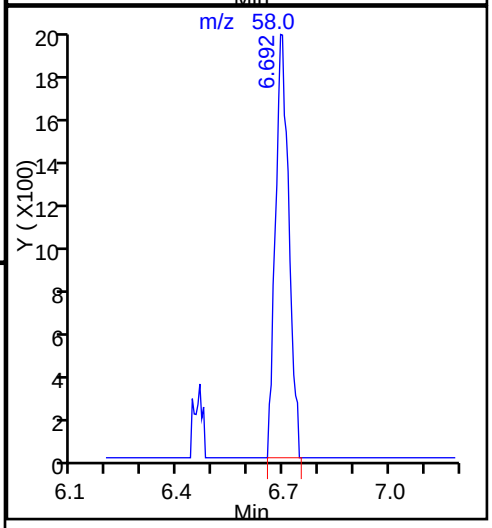
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19
Client ID:	FR-SSDUP-092315		
Operator ID:	wrd	ALS Bottle#:	5 Worklist Smp#: 24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

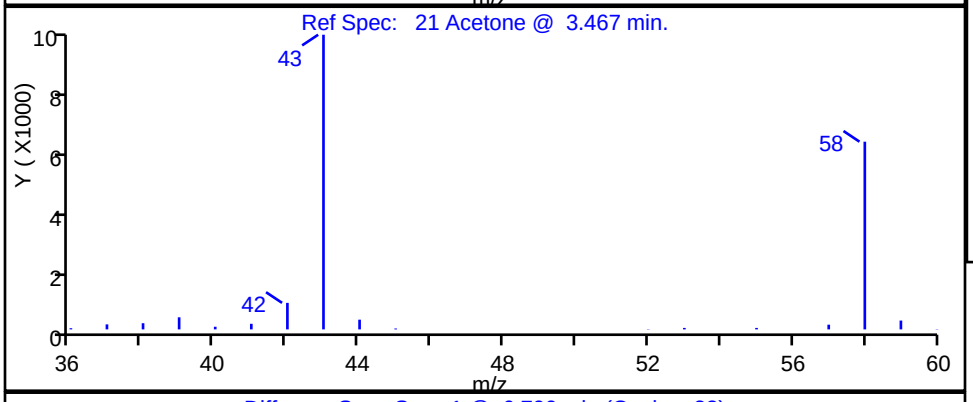
21 Acetone, CAS: 67-64-1

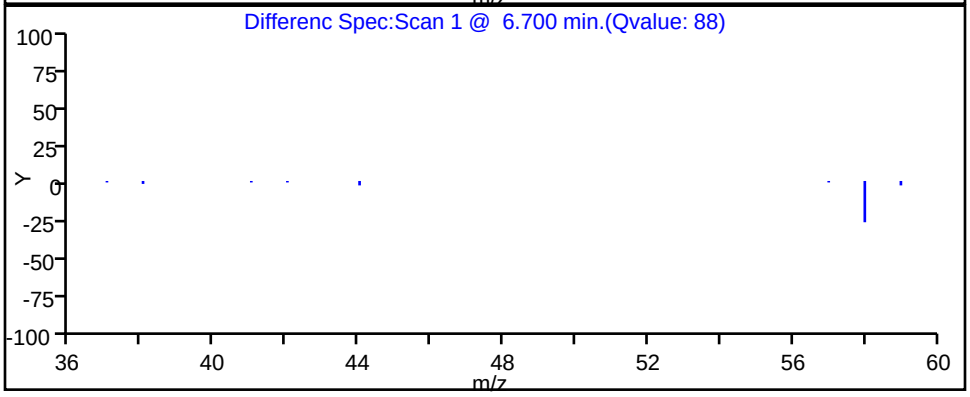












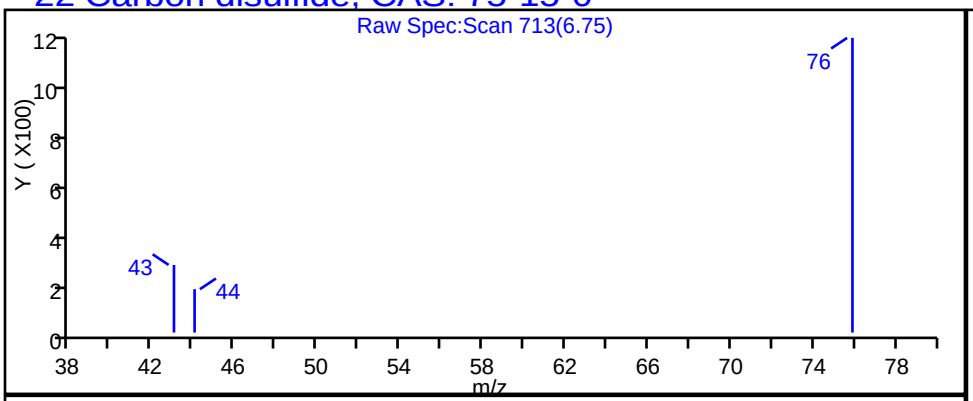
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

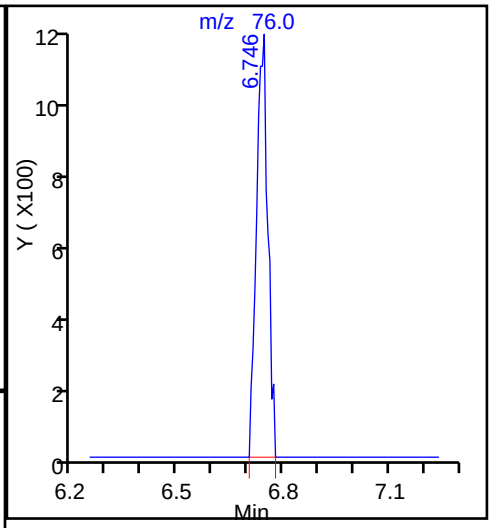
TestAmerica Burlington

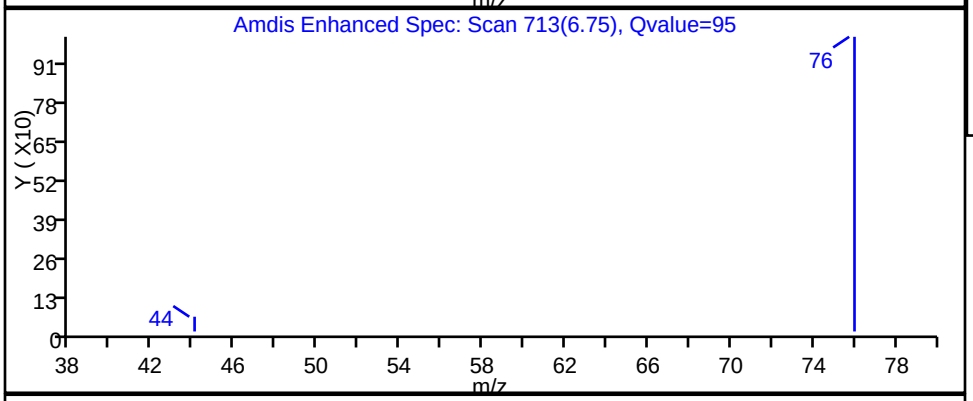
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

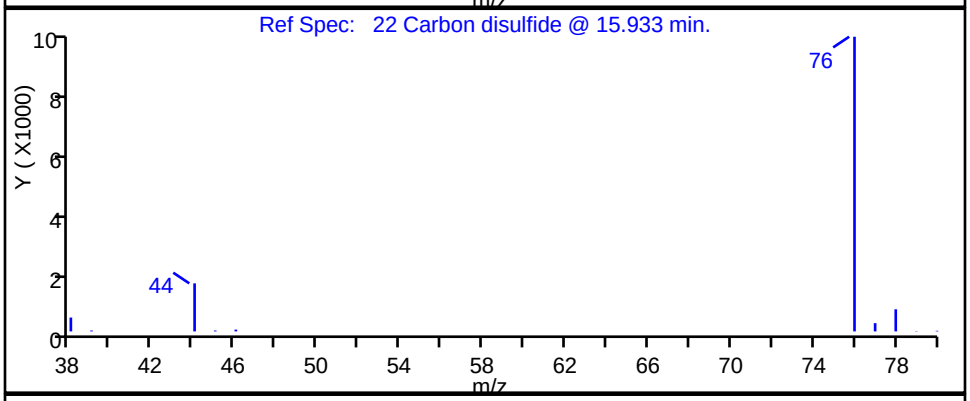
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

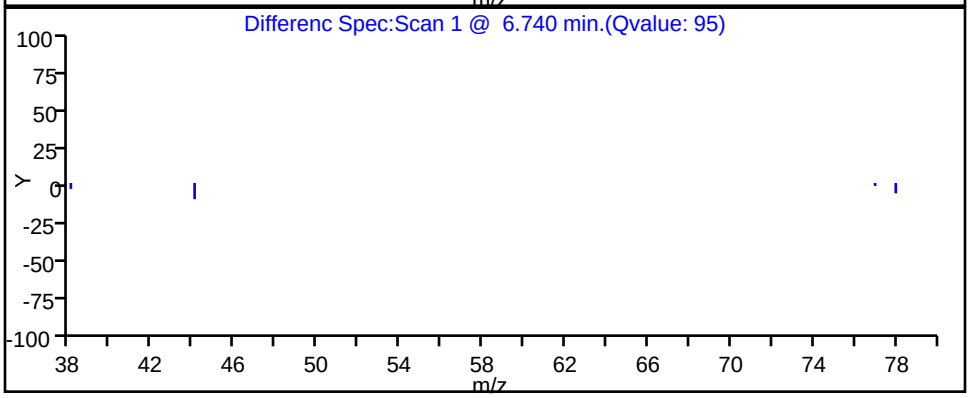
22 Carbon disulfide, CAS: 75-15-0









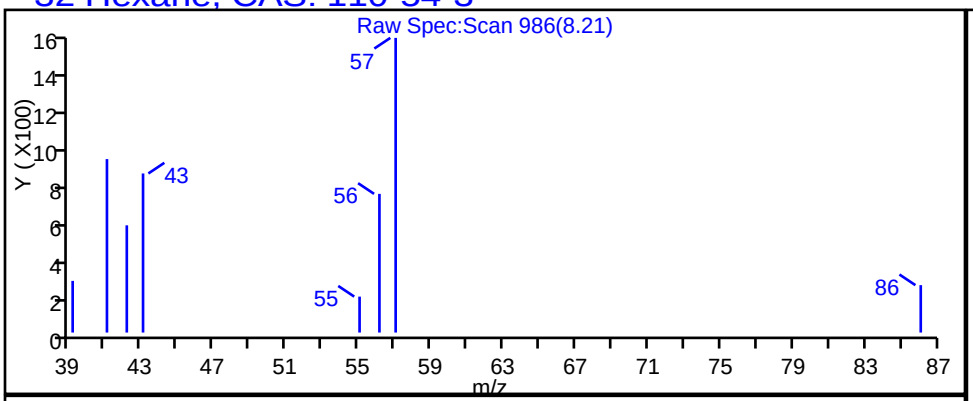


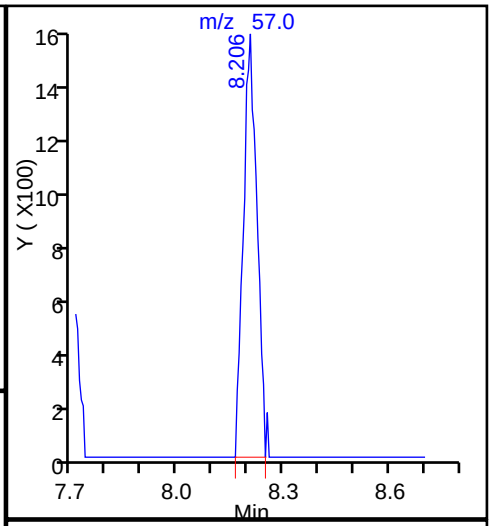
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

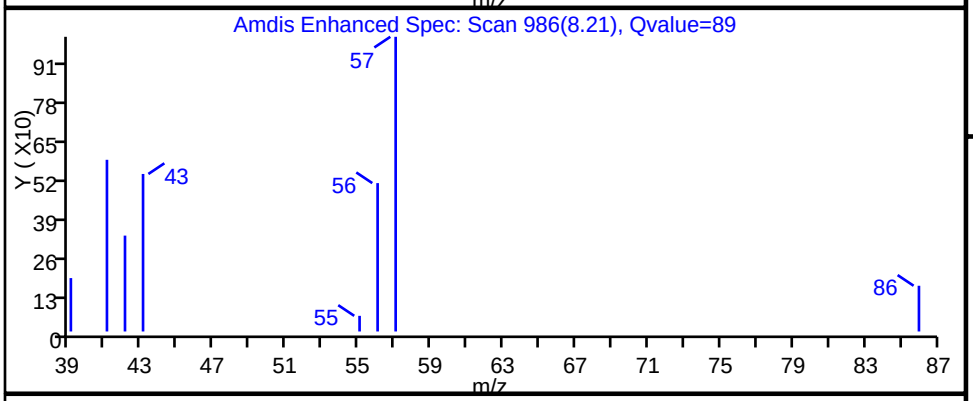
TestAmerica Burlington

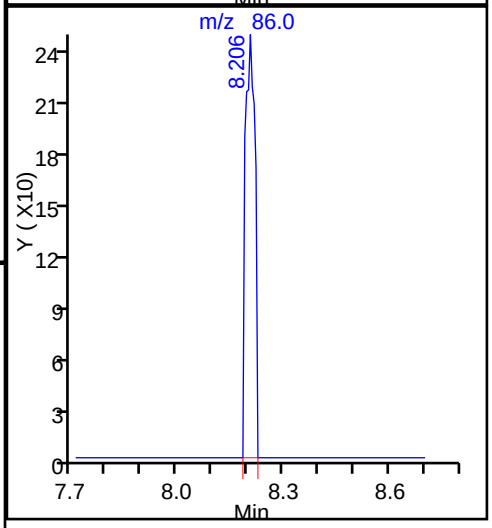
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

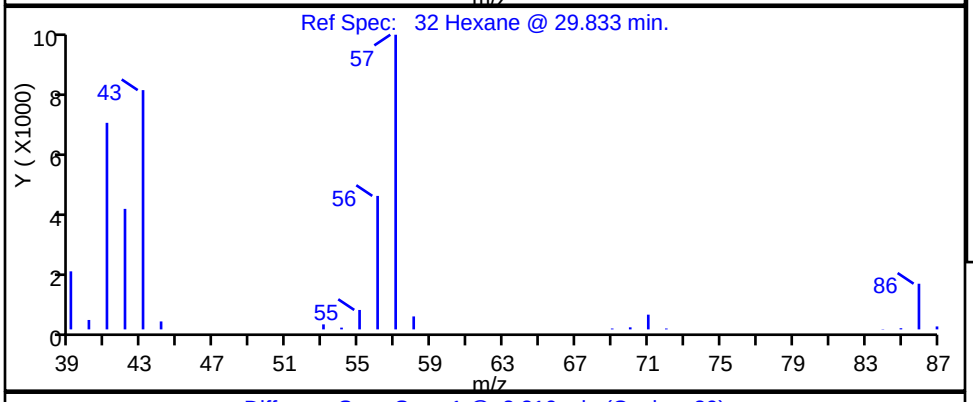
32 Hexane, CAS: 110-54-3

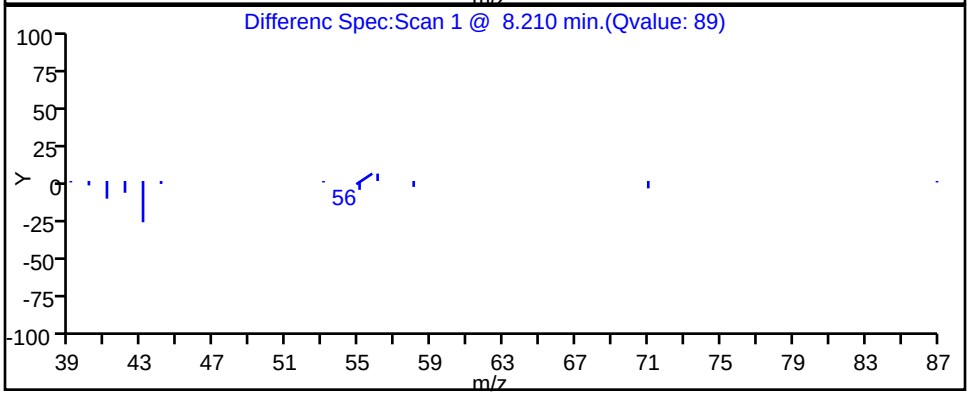












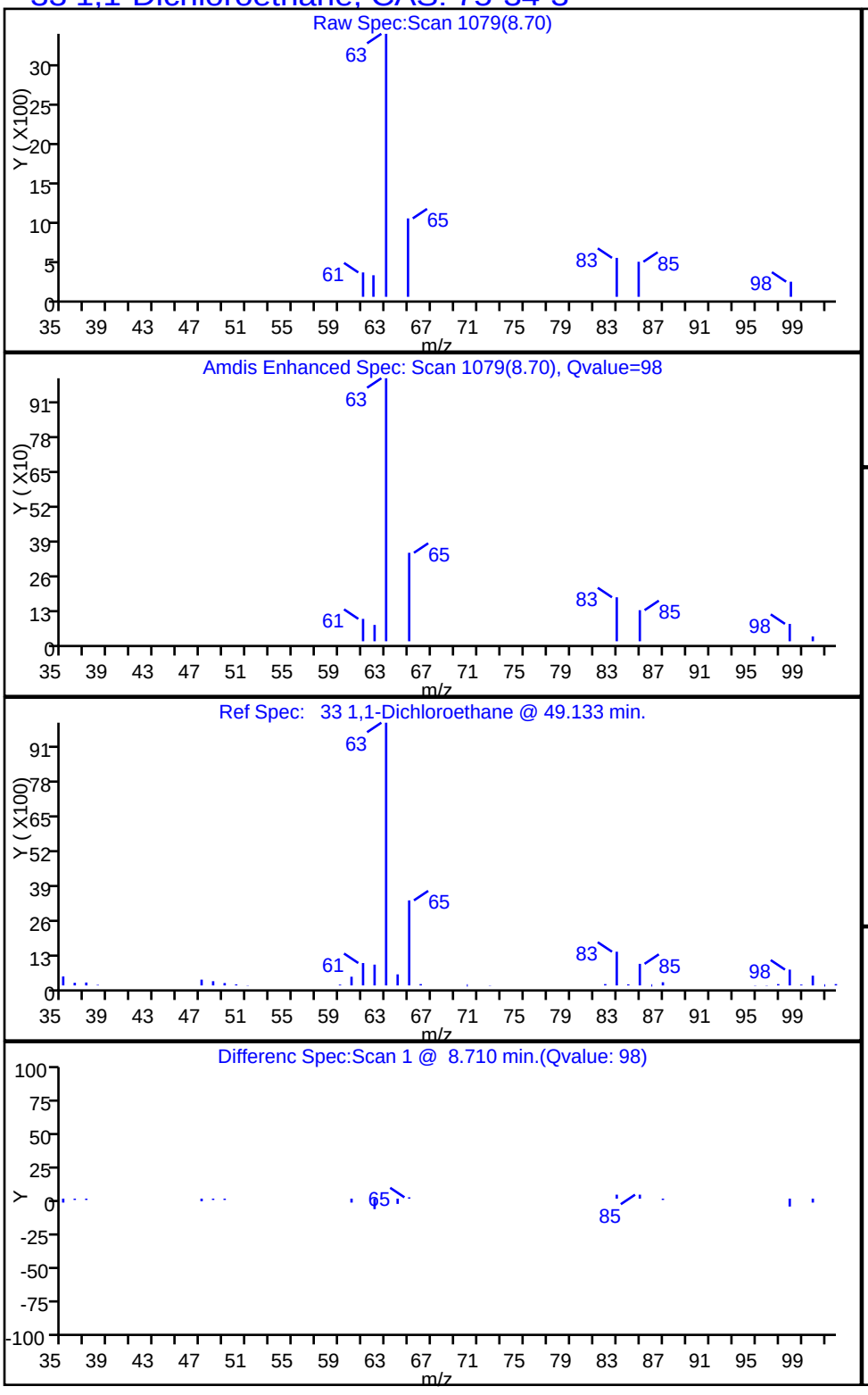
Report Date: 06-Oct-2015 11:49:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

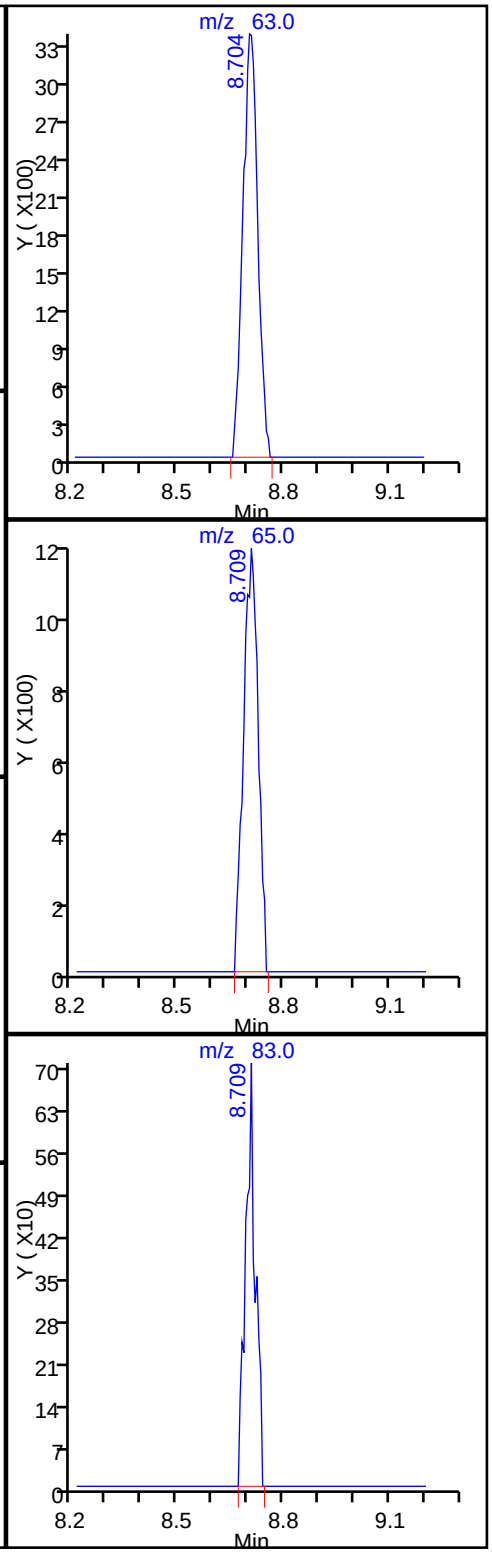
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

33 1,1-Dichloroethane, CAS: 75-34-3





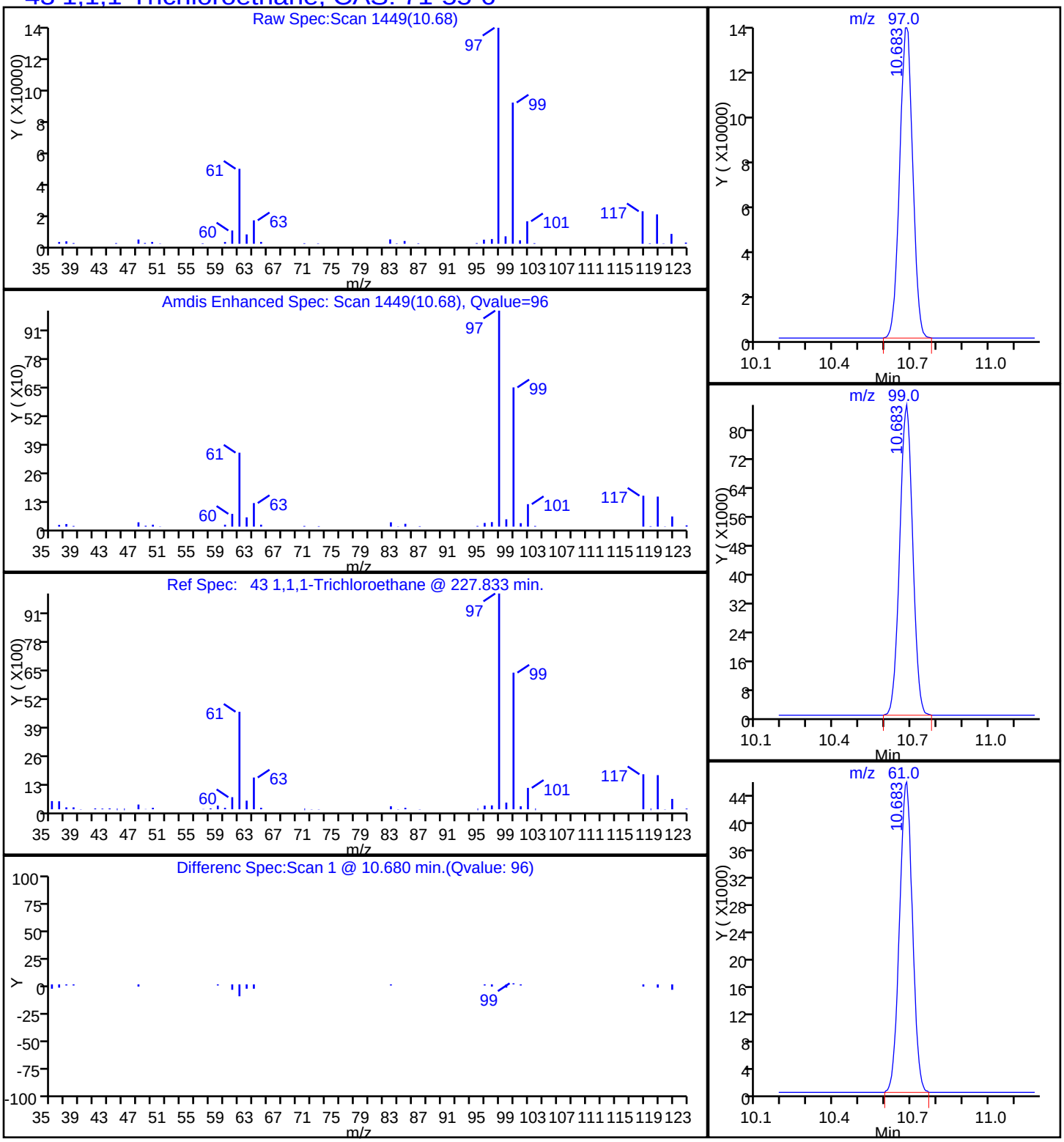
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 1,1,1-Trichloroethane, CAS: 71-55-6



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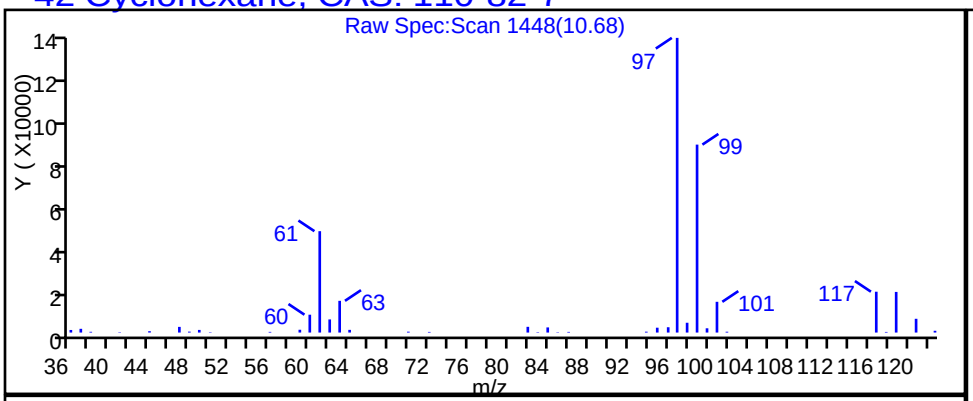
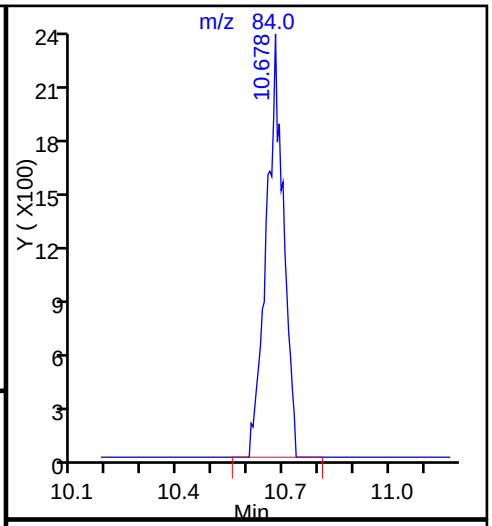
TestAmerica Burlington

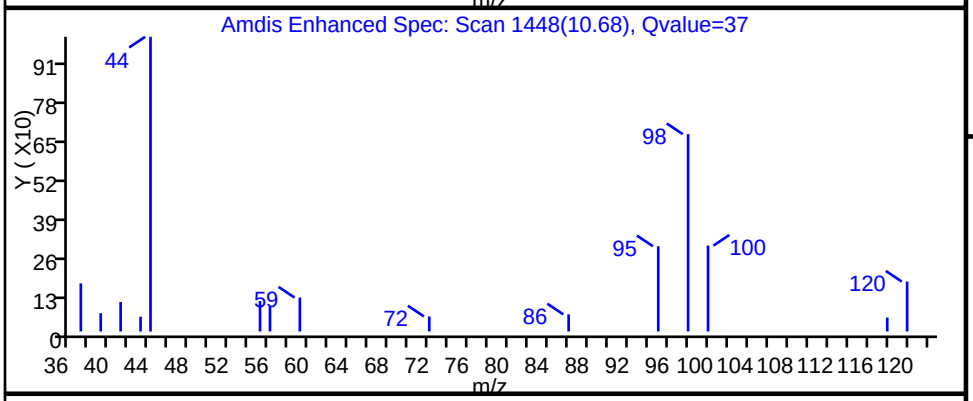
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

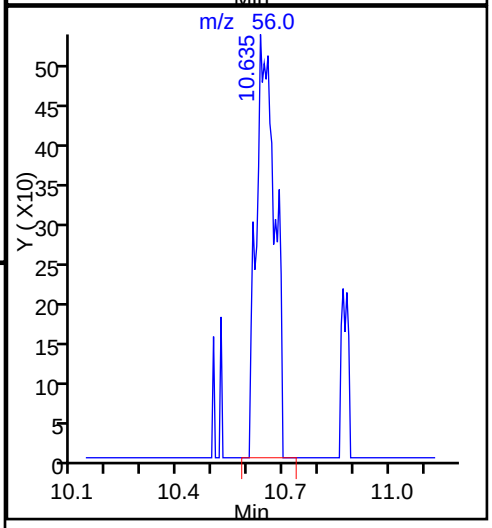
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

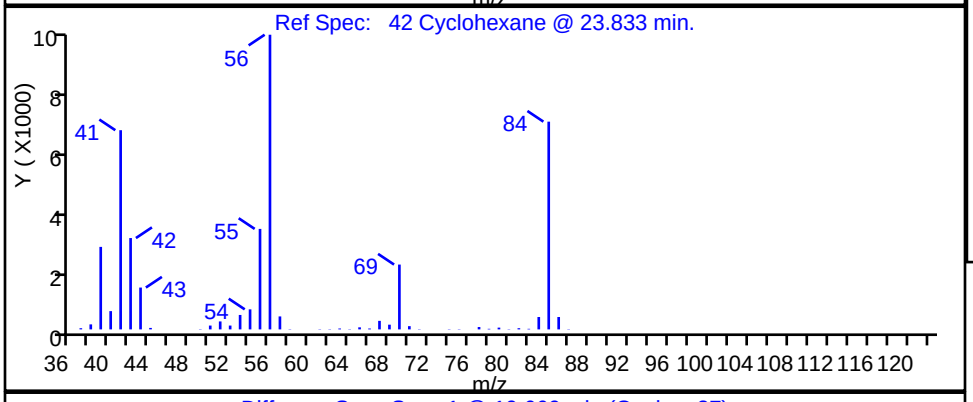
42 Cyclohexane, CAS: 110-82-7

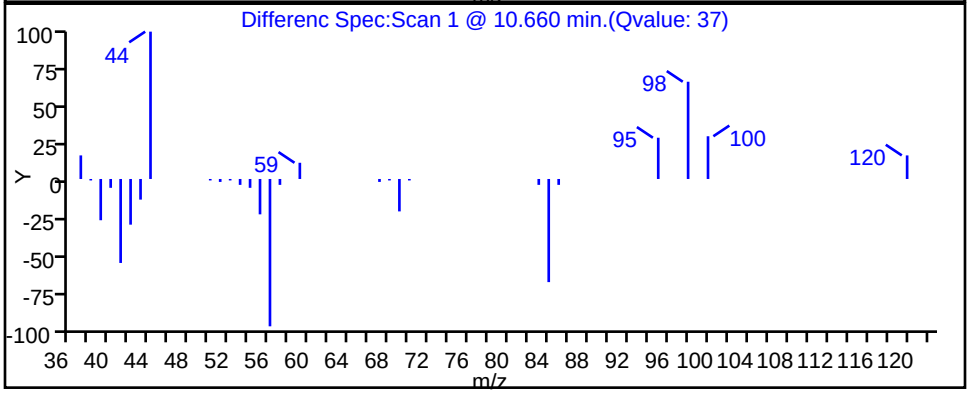










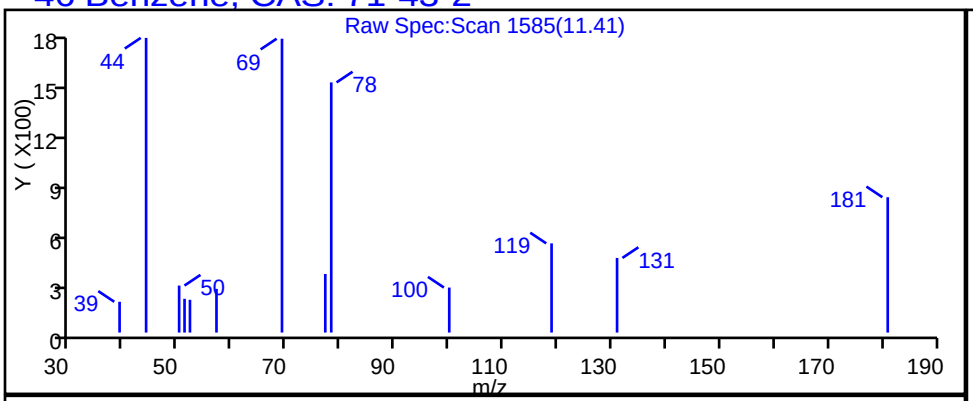


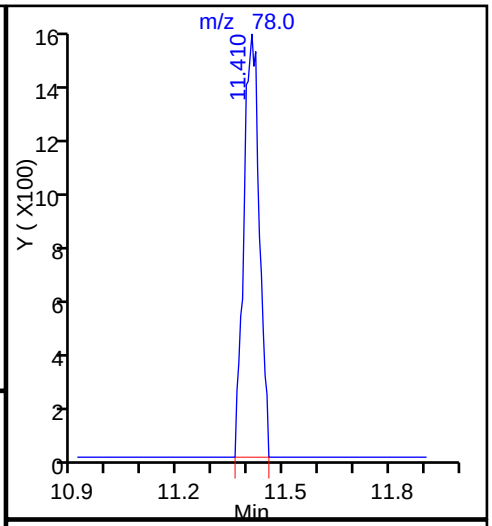
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

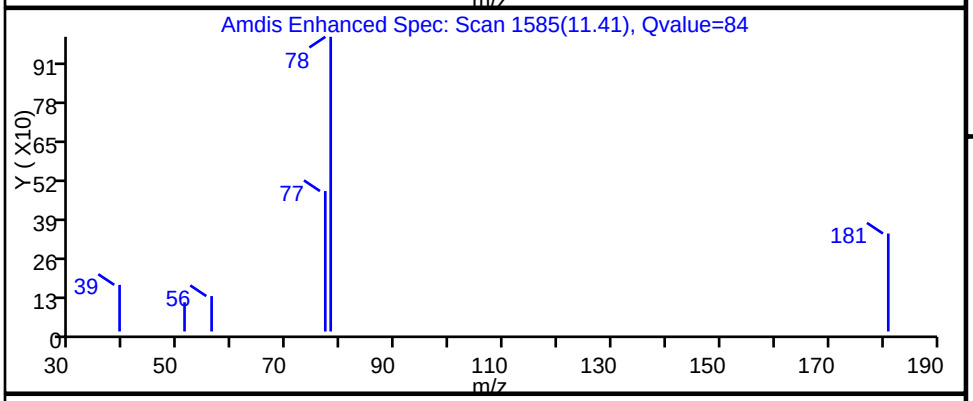
TestAmerica Burlington

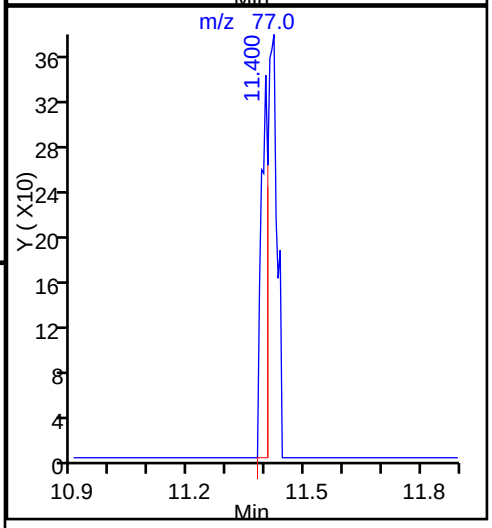
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

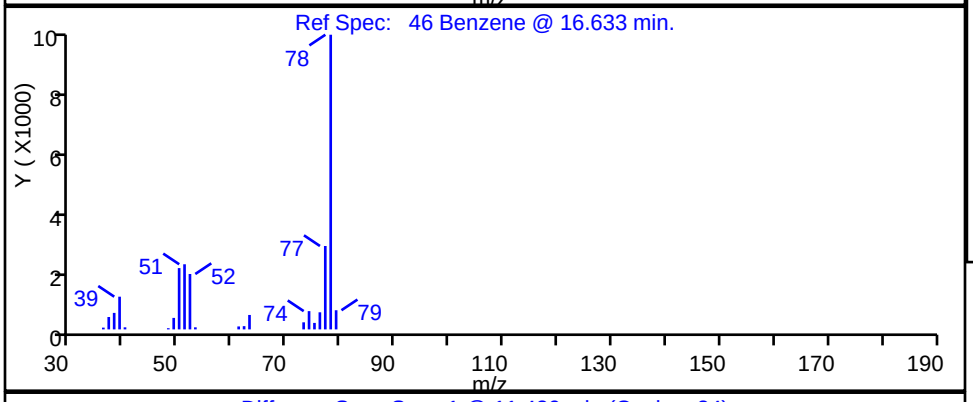
46 Benzene, CAS: 71-43-2

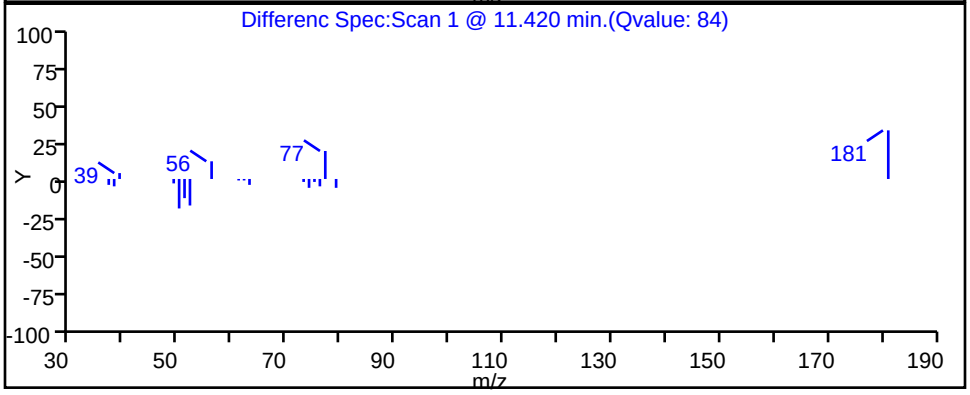












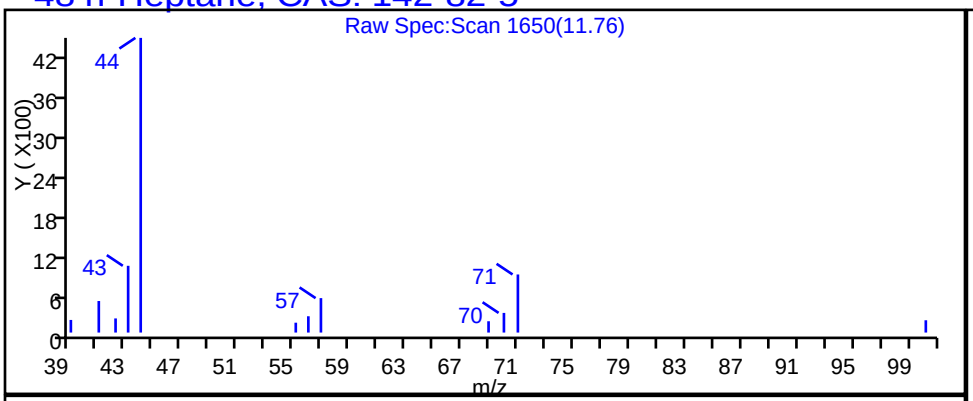
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

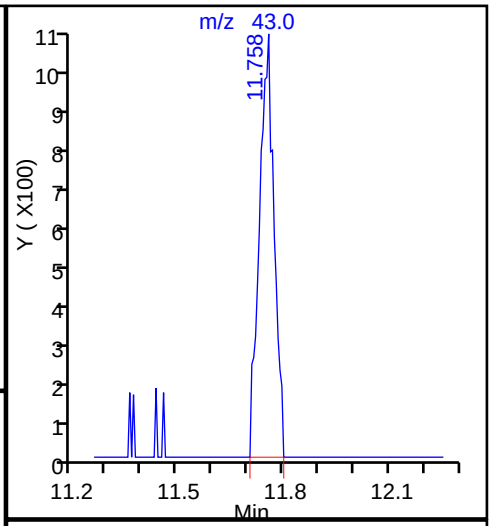
TestAmerica Burlington

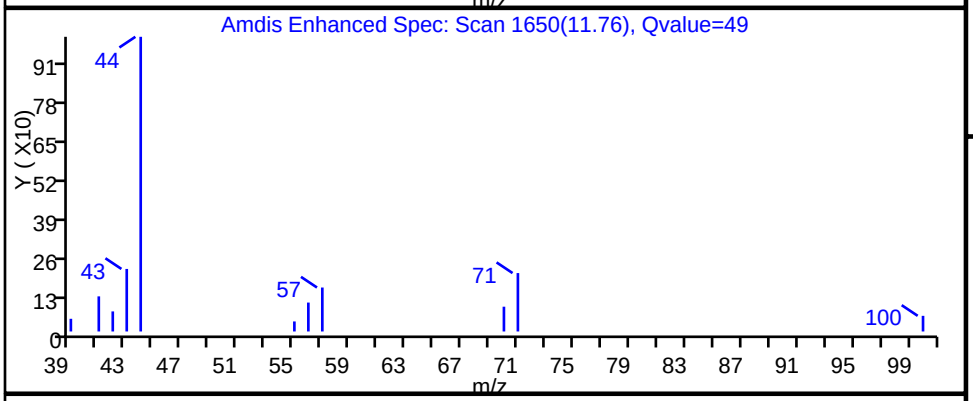
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

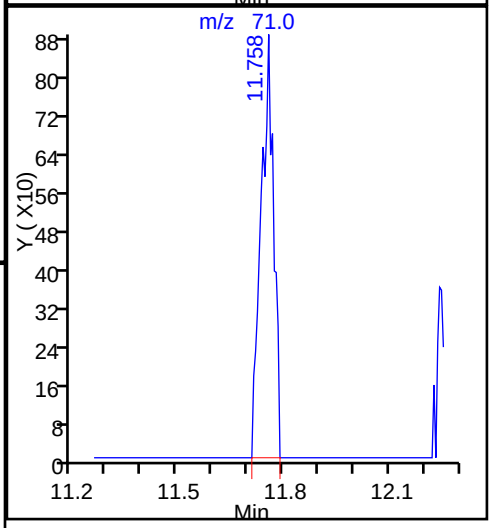
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

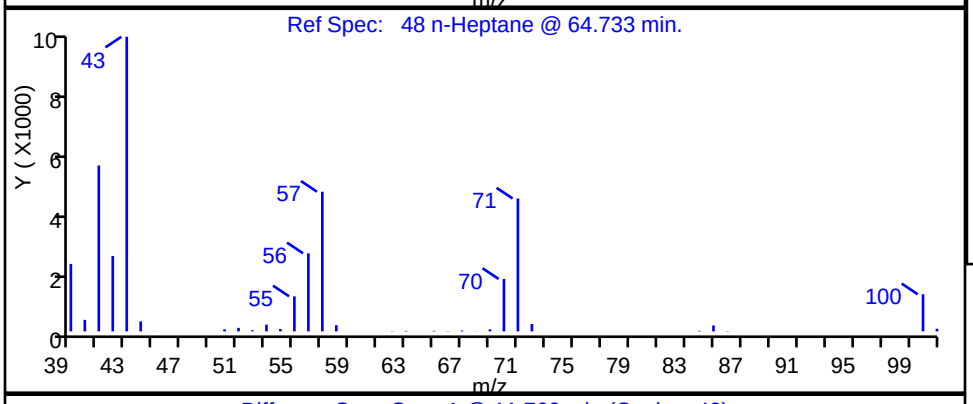
48 n-Heptane, CAS: 142-82-5

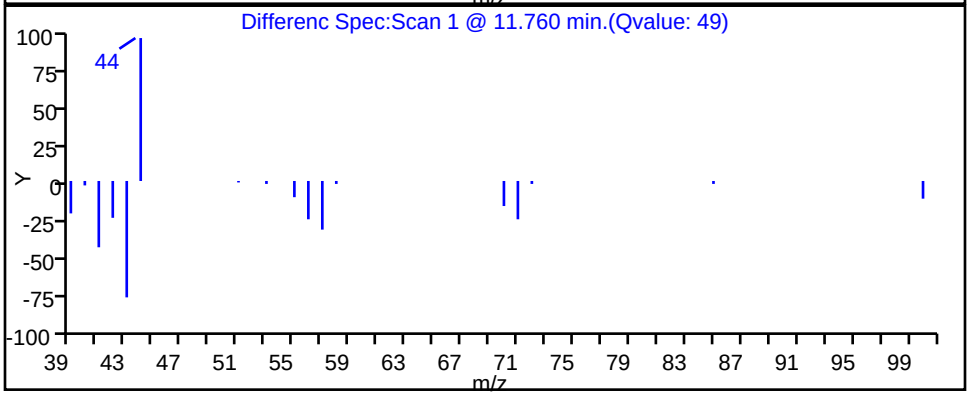












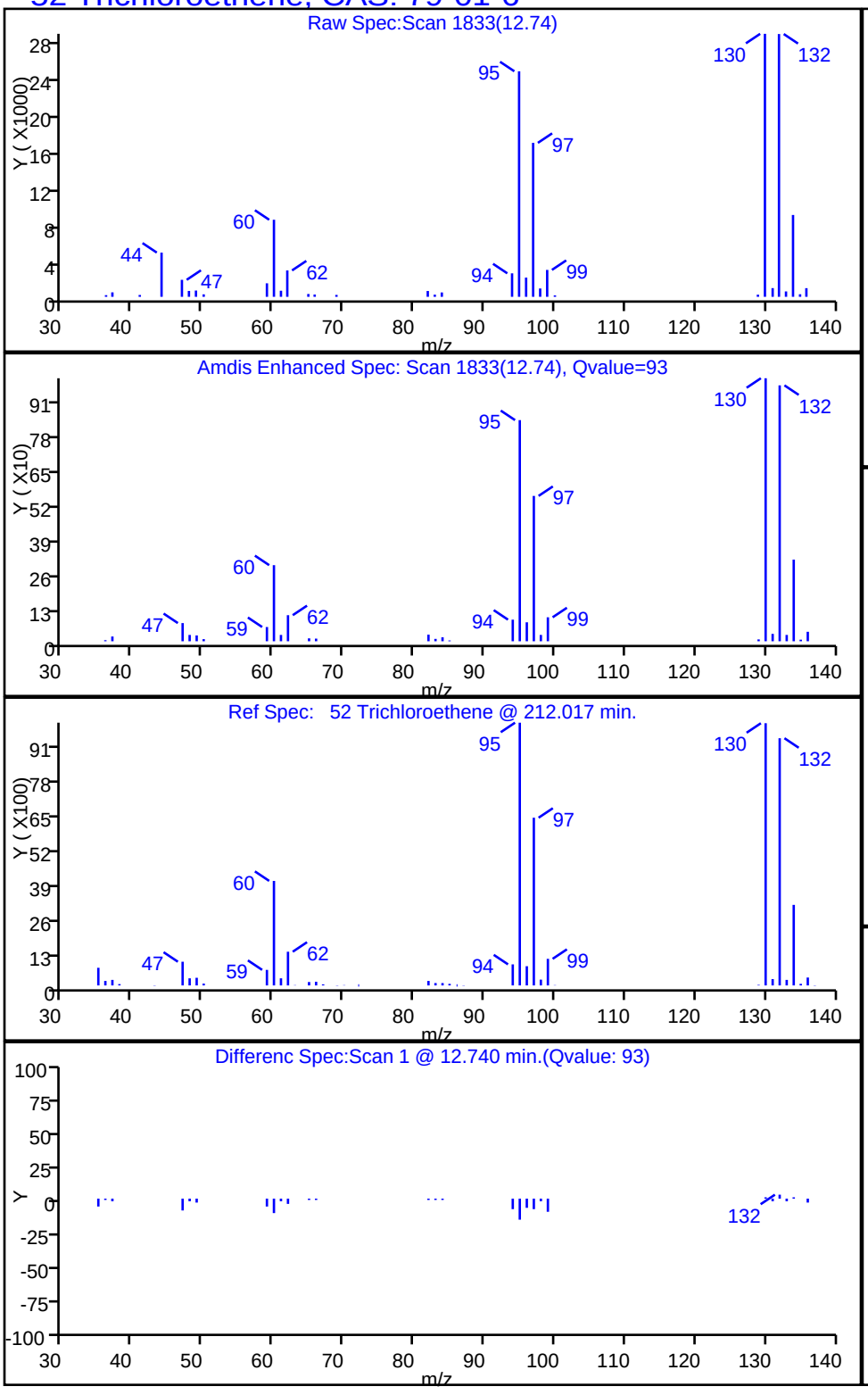
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

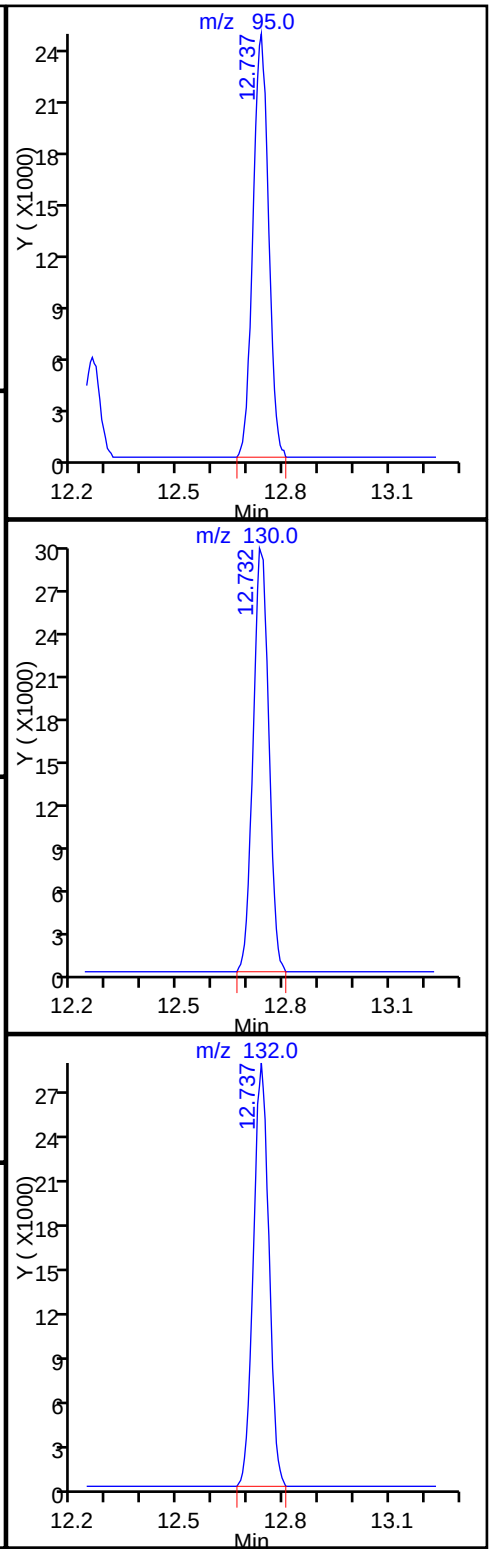
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

52 Trichloroethene, CAS: 79-01-6





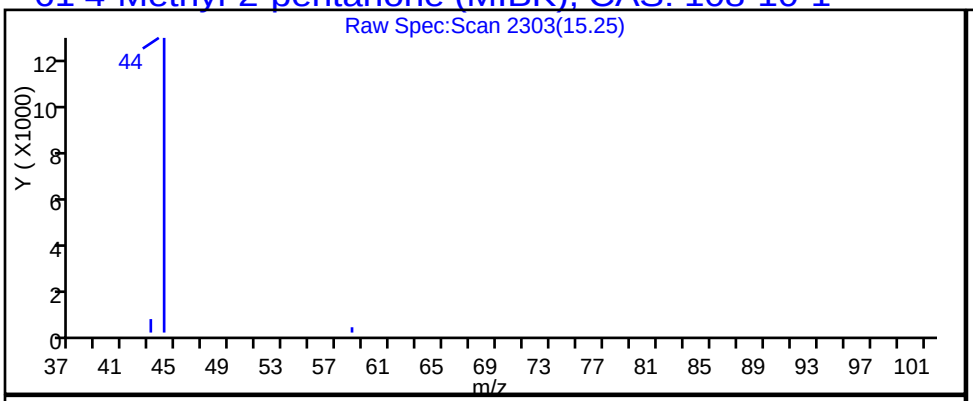
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

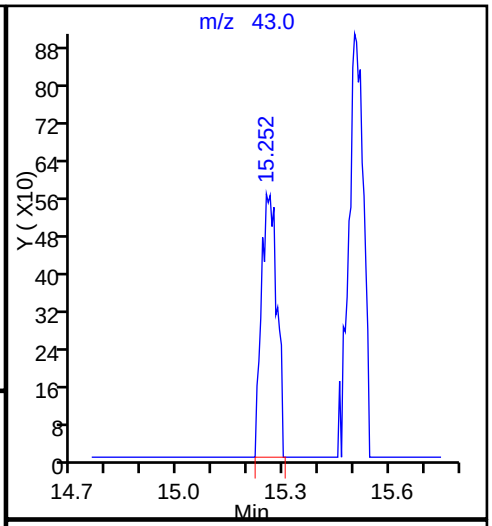
TestAmerica Burlington

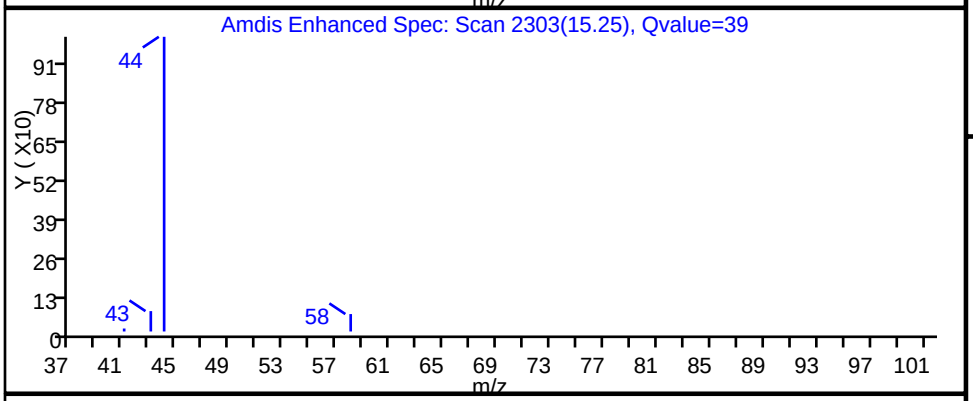
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

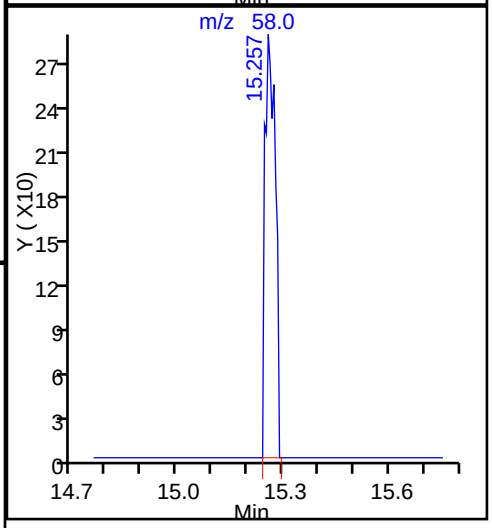
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

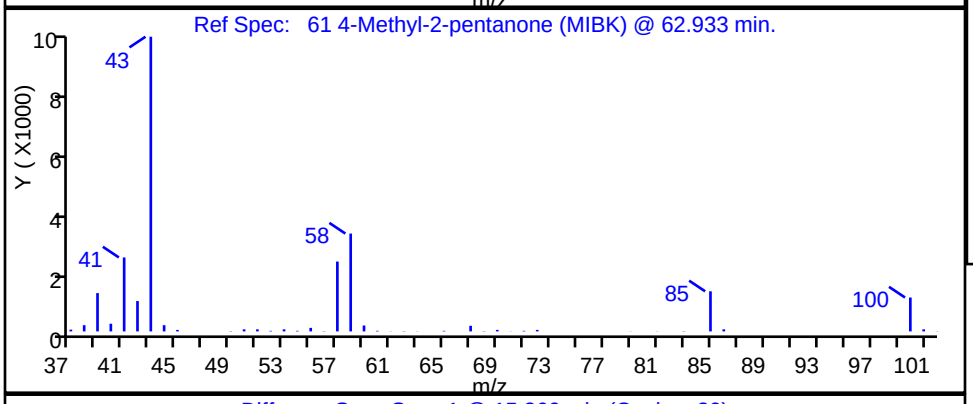
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

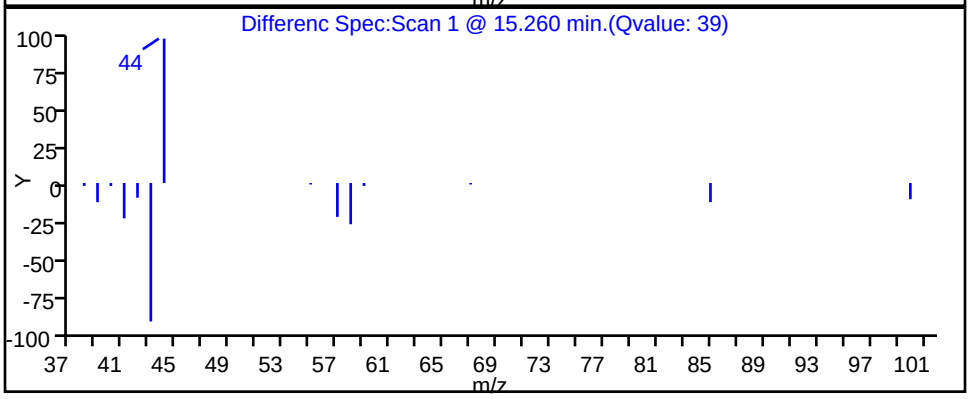












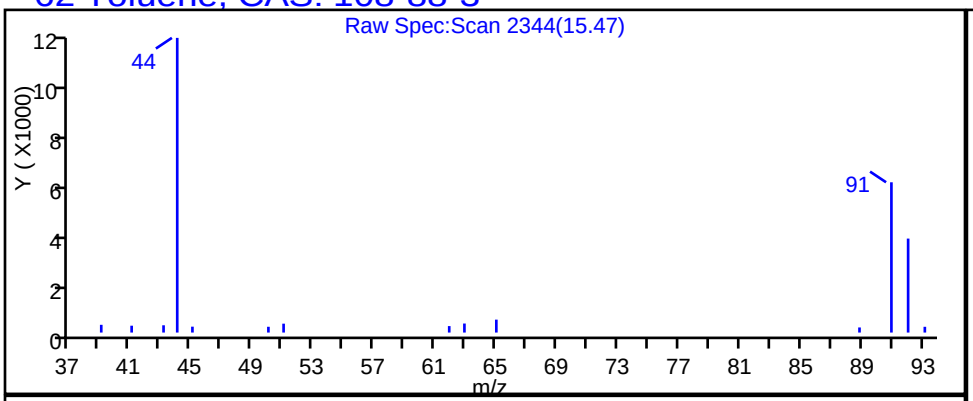
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

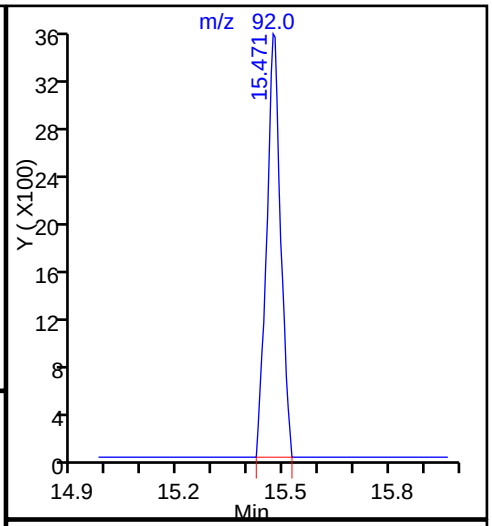
TestAmerica Burlington

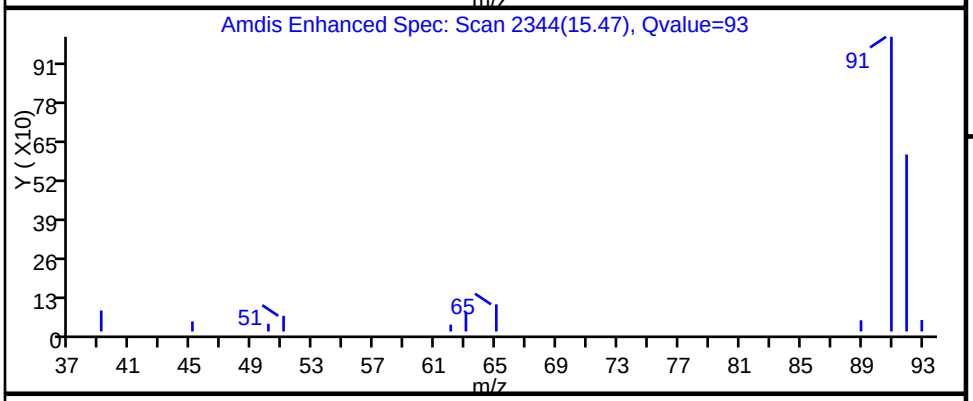
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

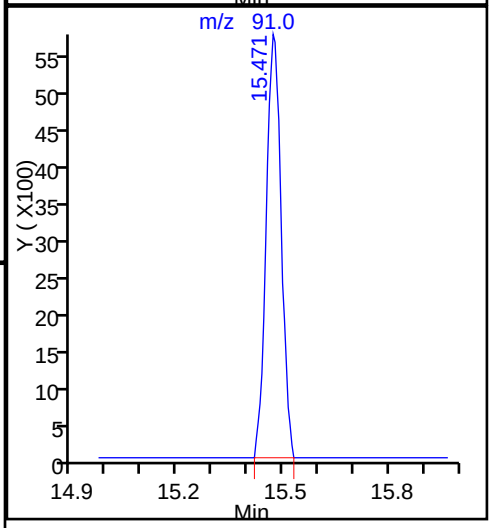
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

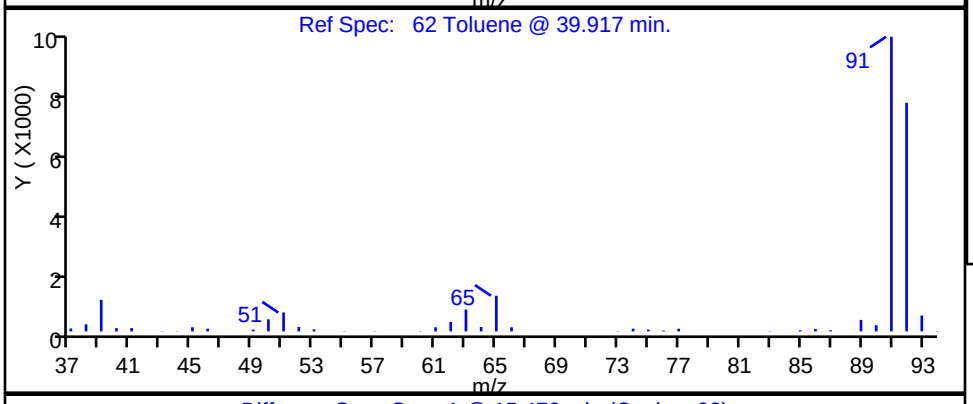
62 Toluene, CAS: 108-88-3

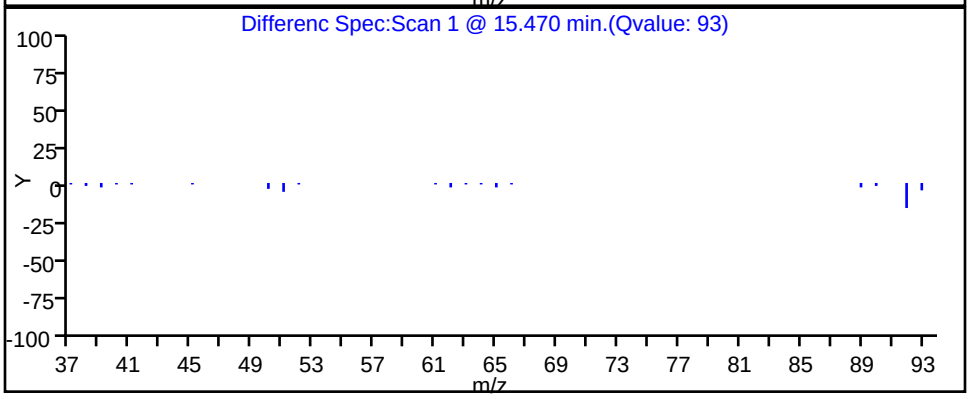












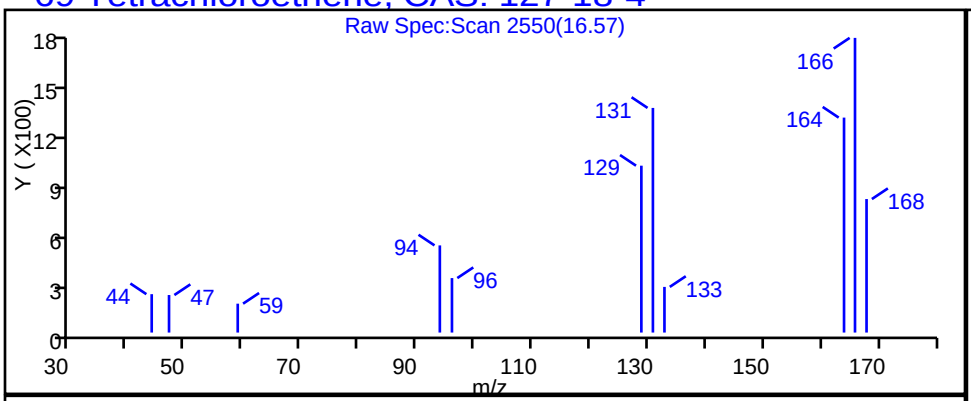
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

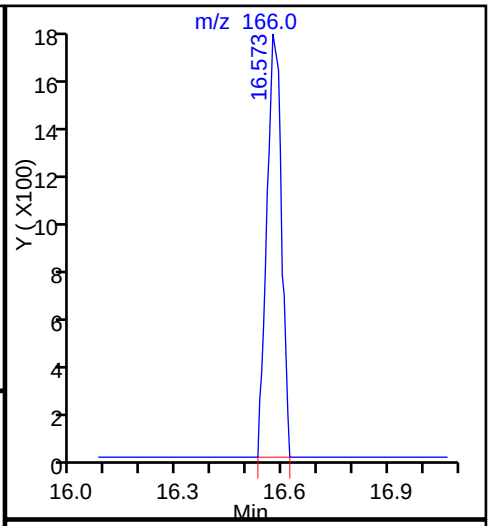
TestAmerica Burlington

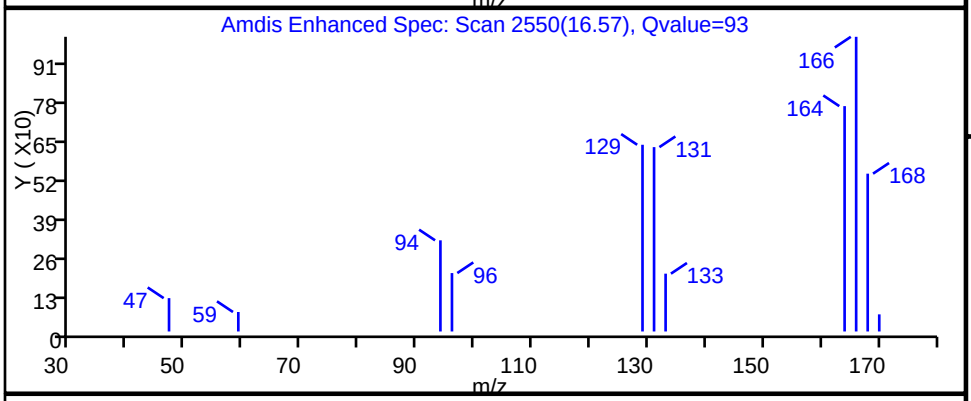
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

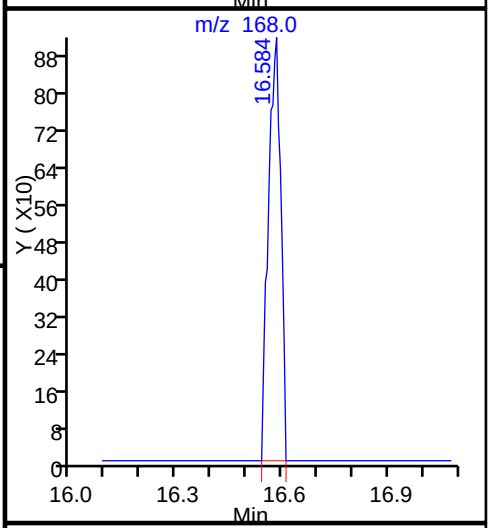
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

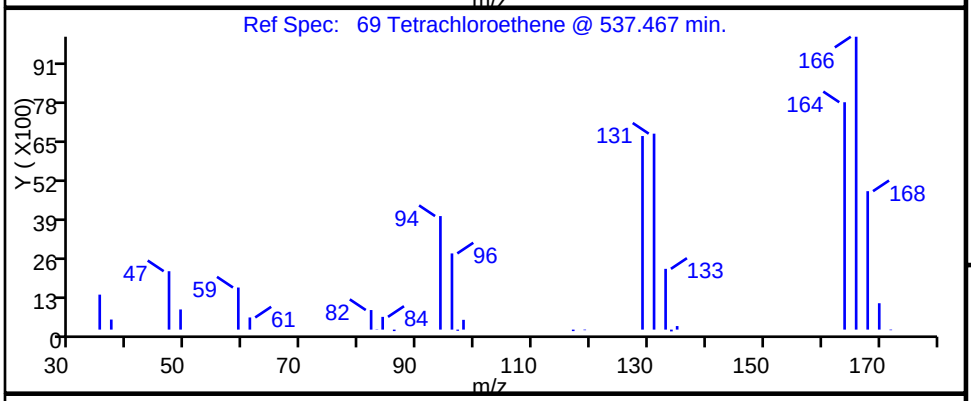
69 Tetrachloroethene, CAS: 127-18-4

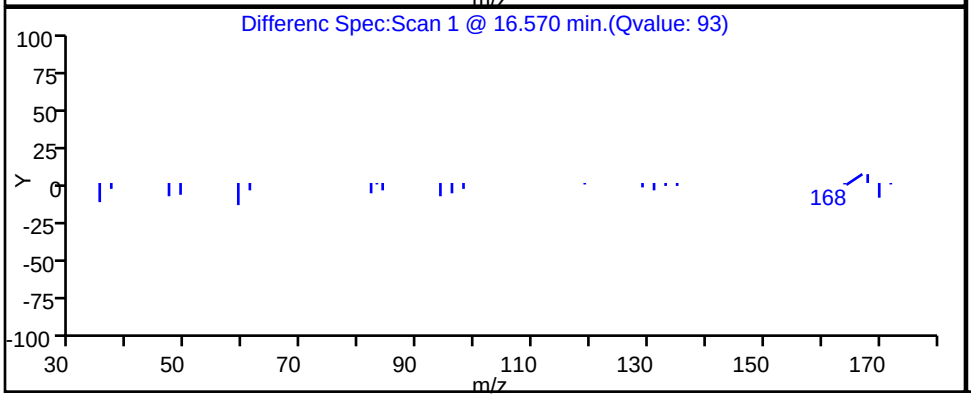


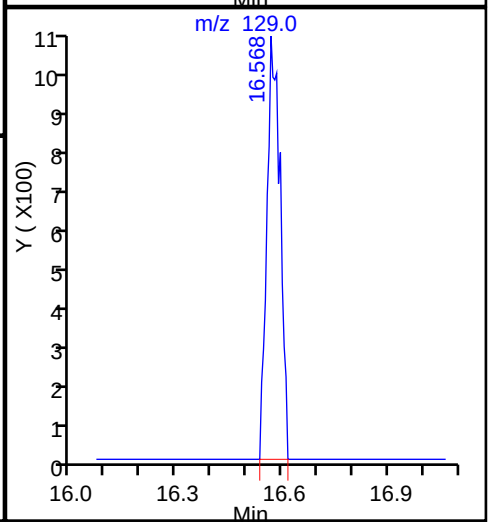












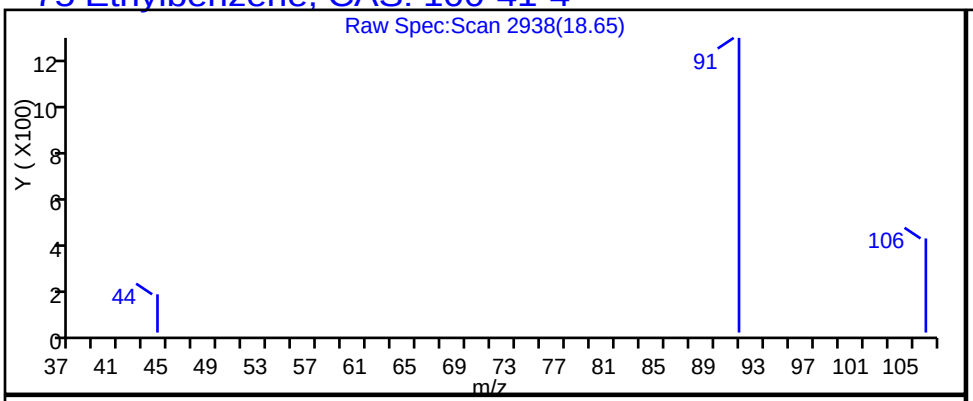
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

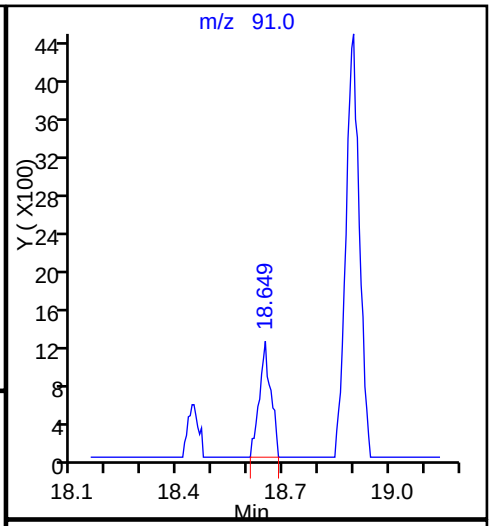
TestAmerica Burlington

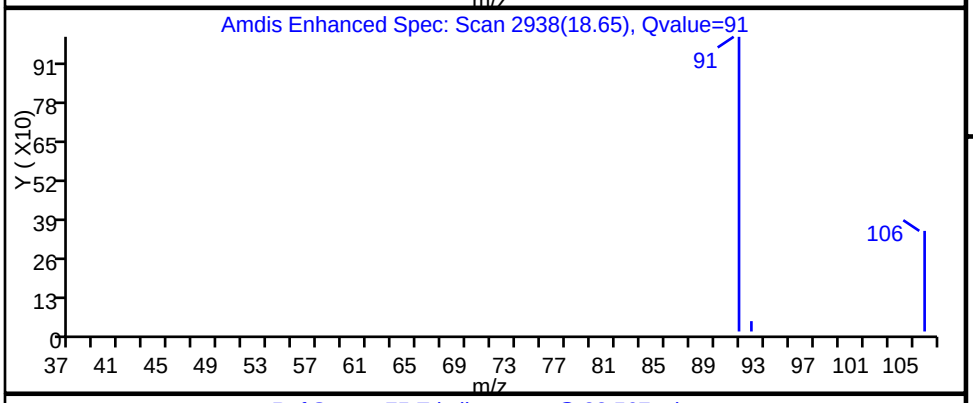
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

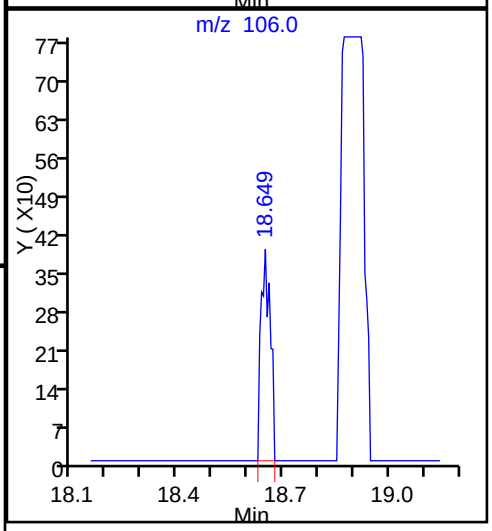
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

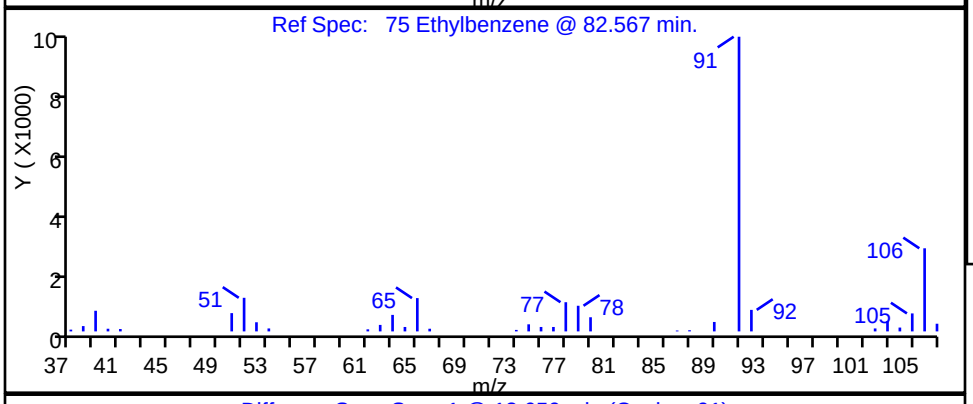
75 Ethylbenzene, CAS: 100-41-4

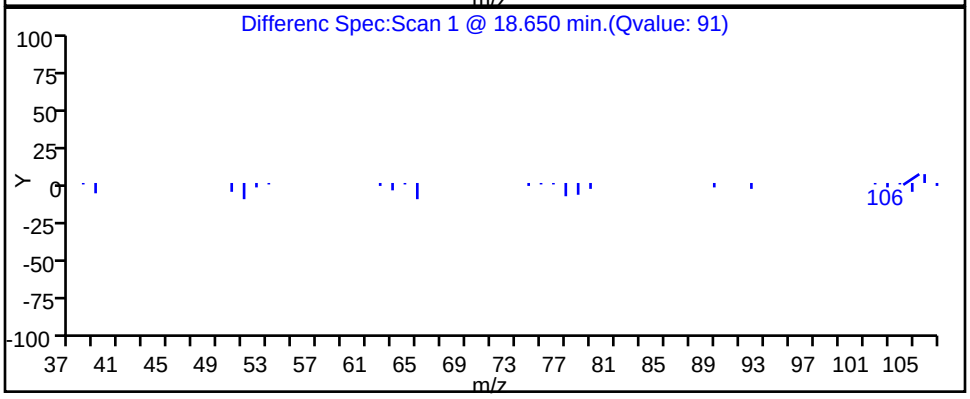












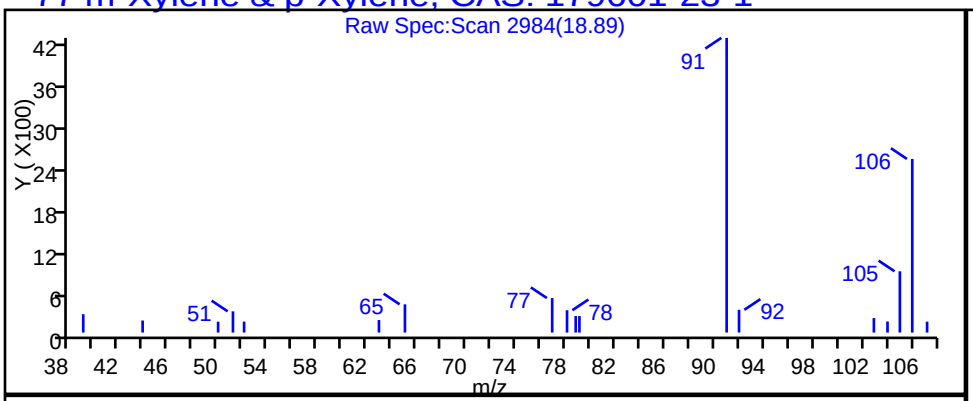
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

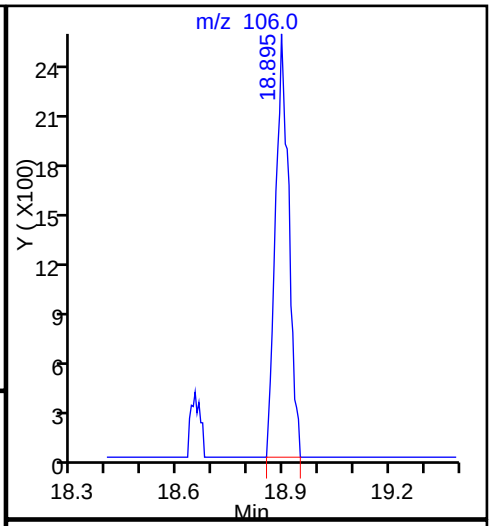
TestAmerica Burlington

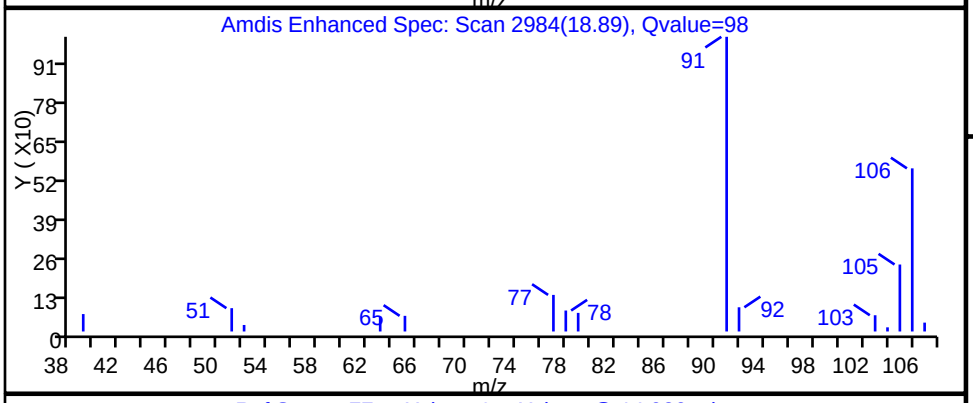
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

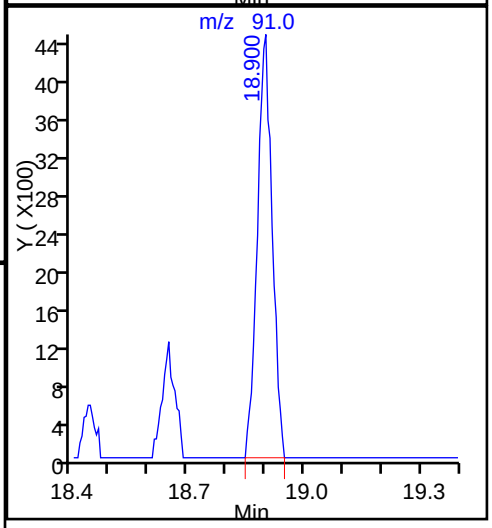
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

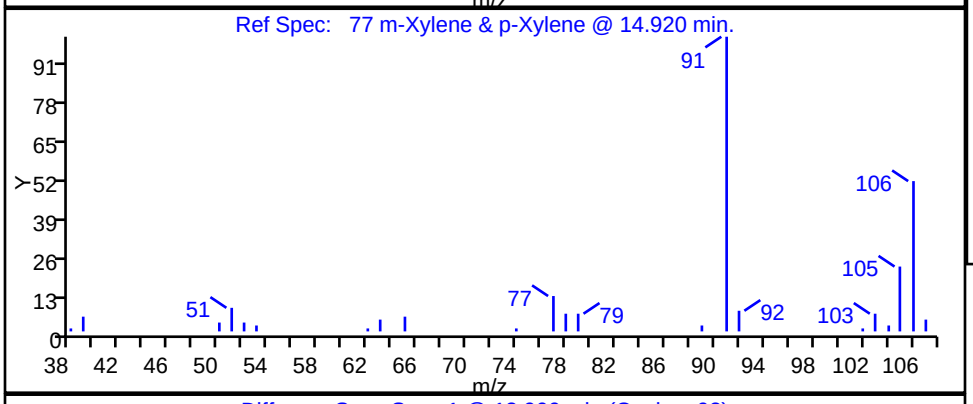
77 m-Xylene & p-Xylene, CAS: 179601-23-1

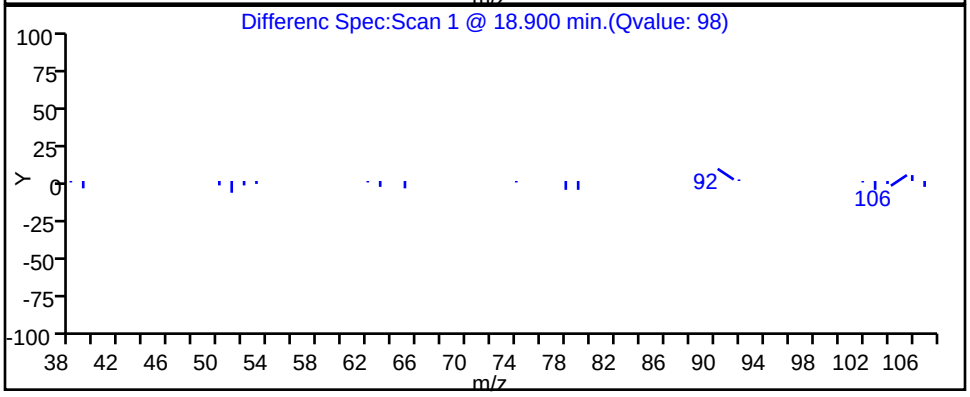












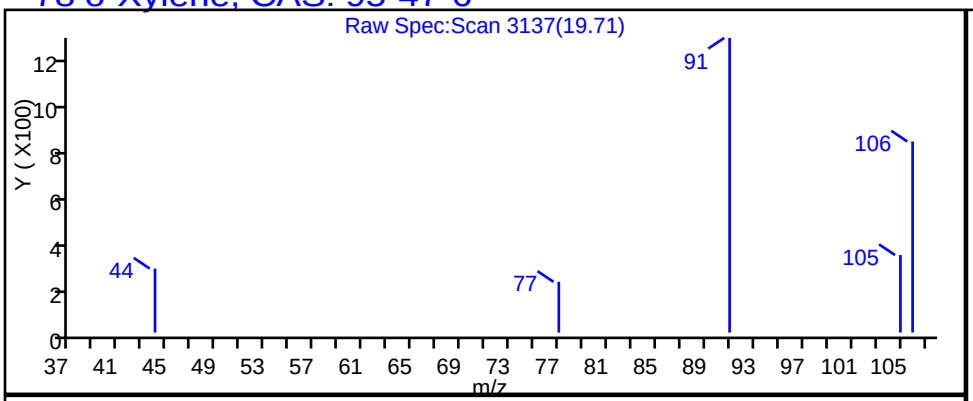
Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

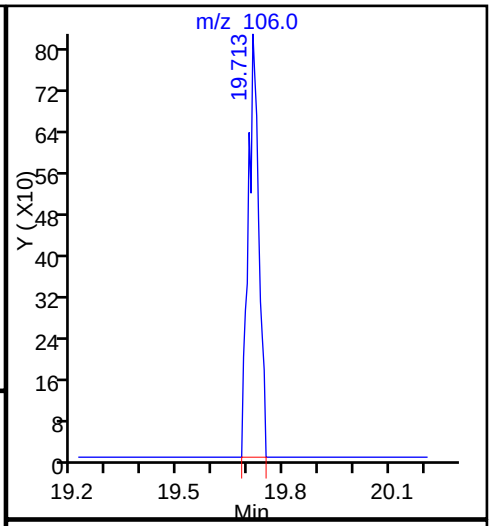
TestAmerica Burlington

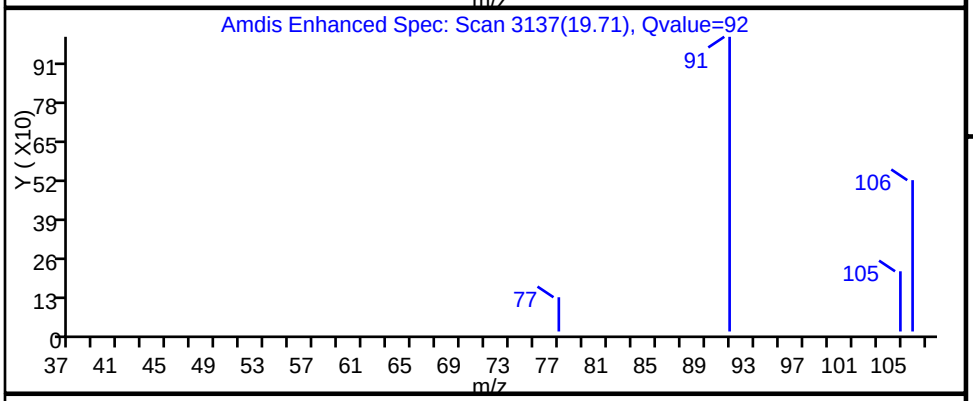
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D

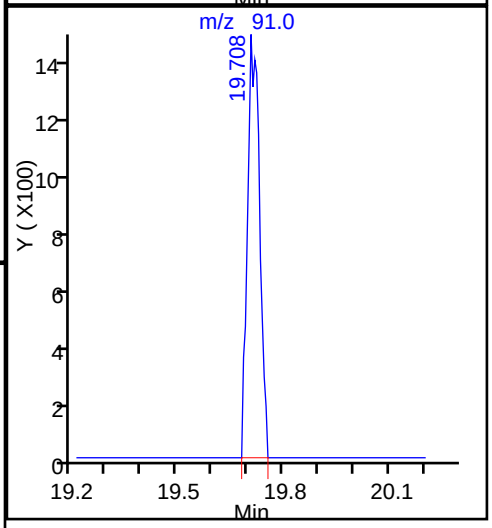
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

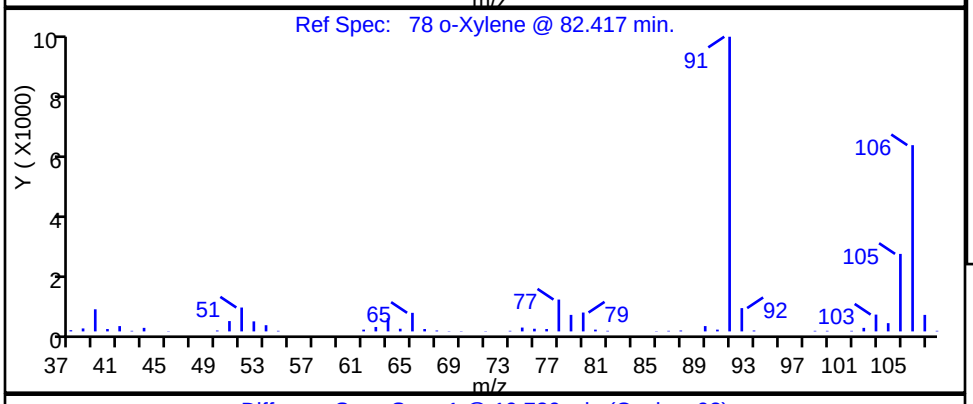
78 o-Xylene, CAS: 95-47-6

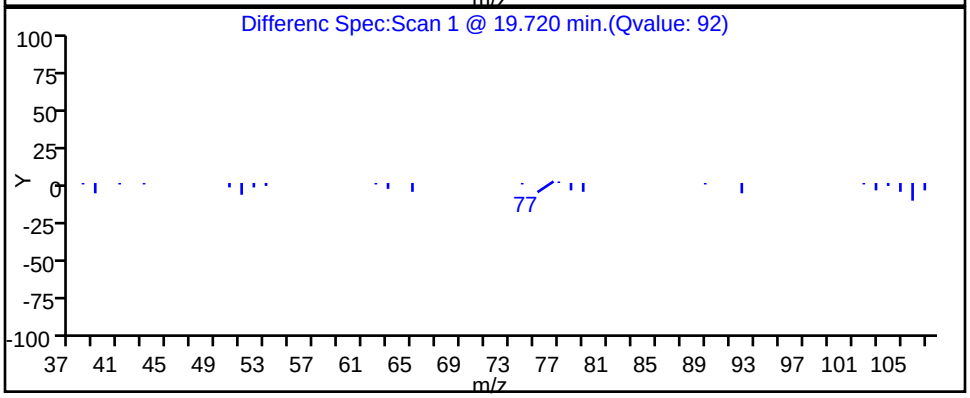










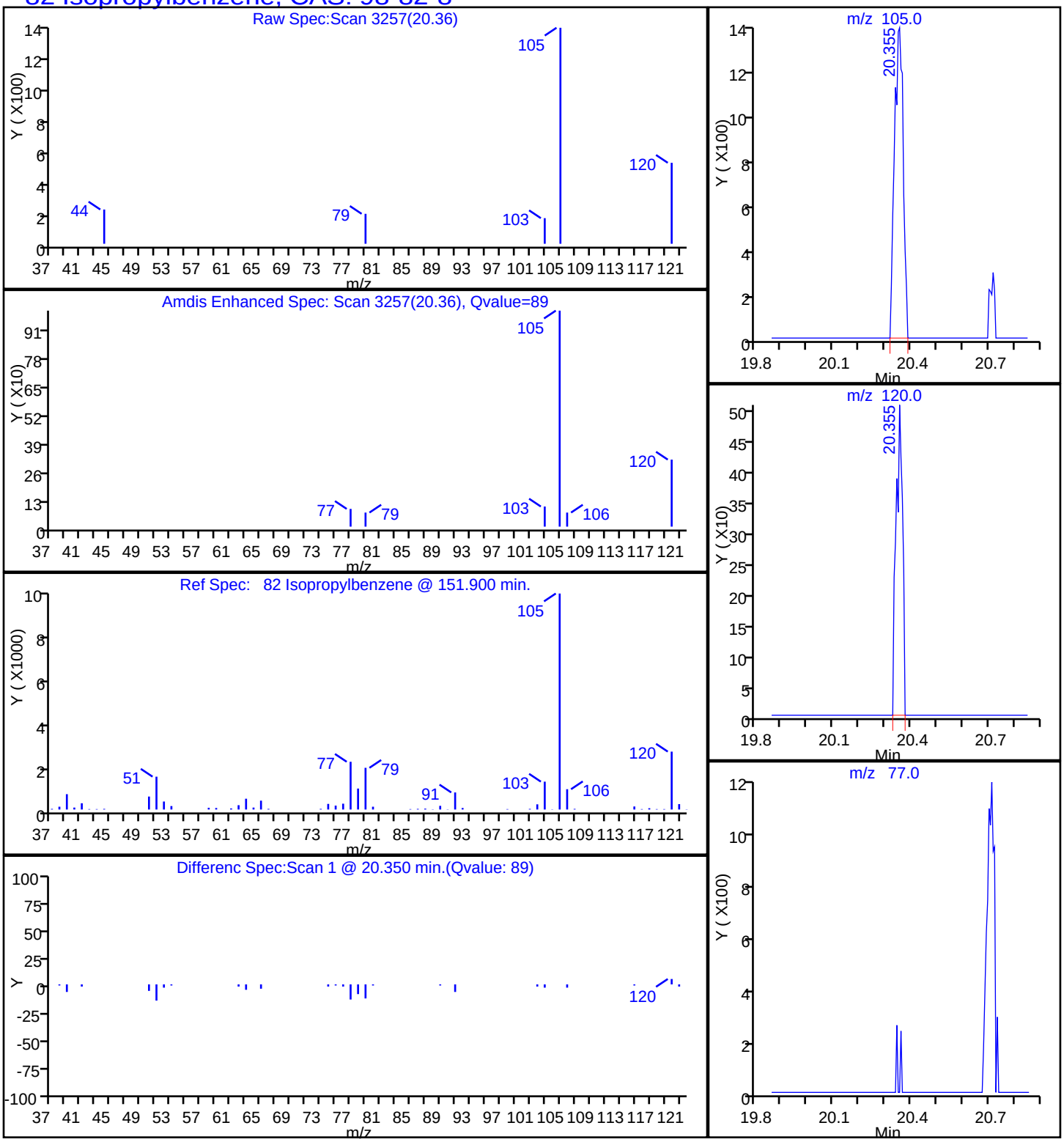


Report Date: 06-Oct-2015 11:50:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

82 Isopropylbenzene, CAS: 98-82-8



Manual Integration/User Assign Peak Report

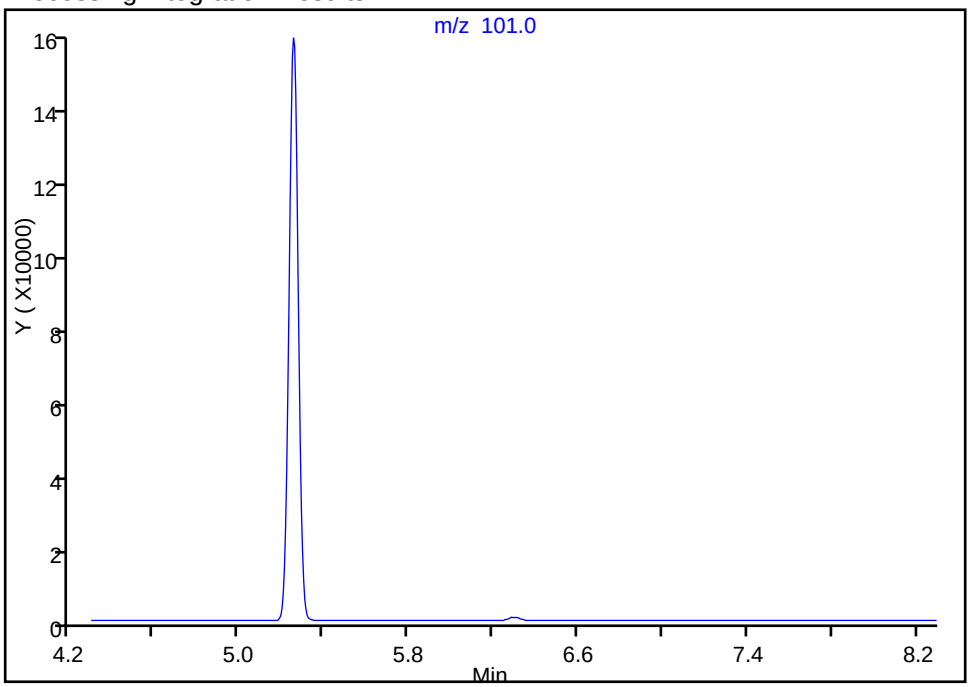
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

18 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

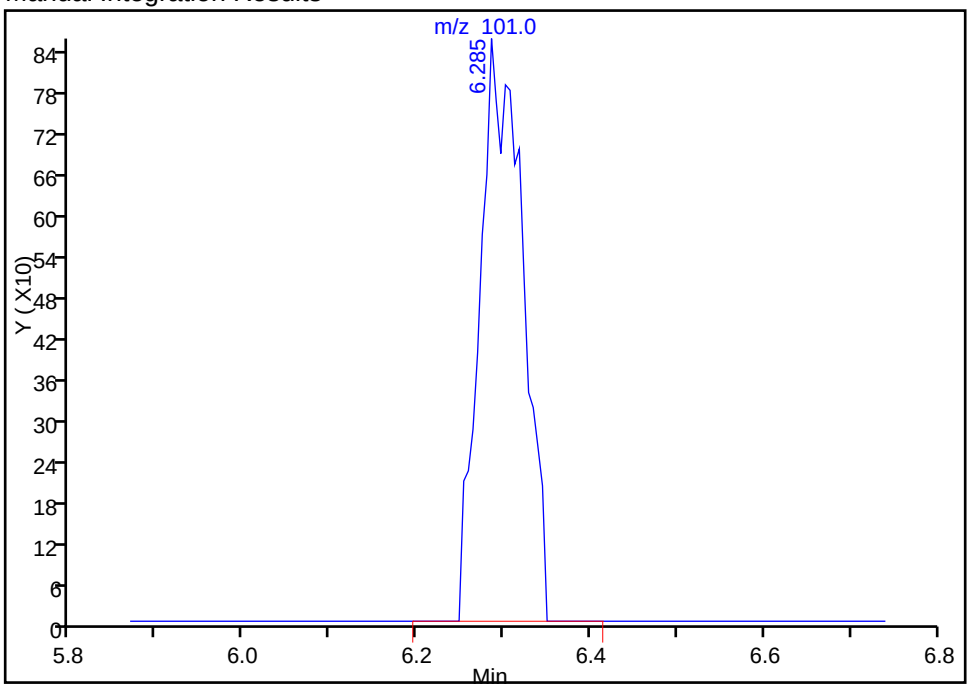
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 2948
Amount: 0.128540
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:49:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

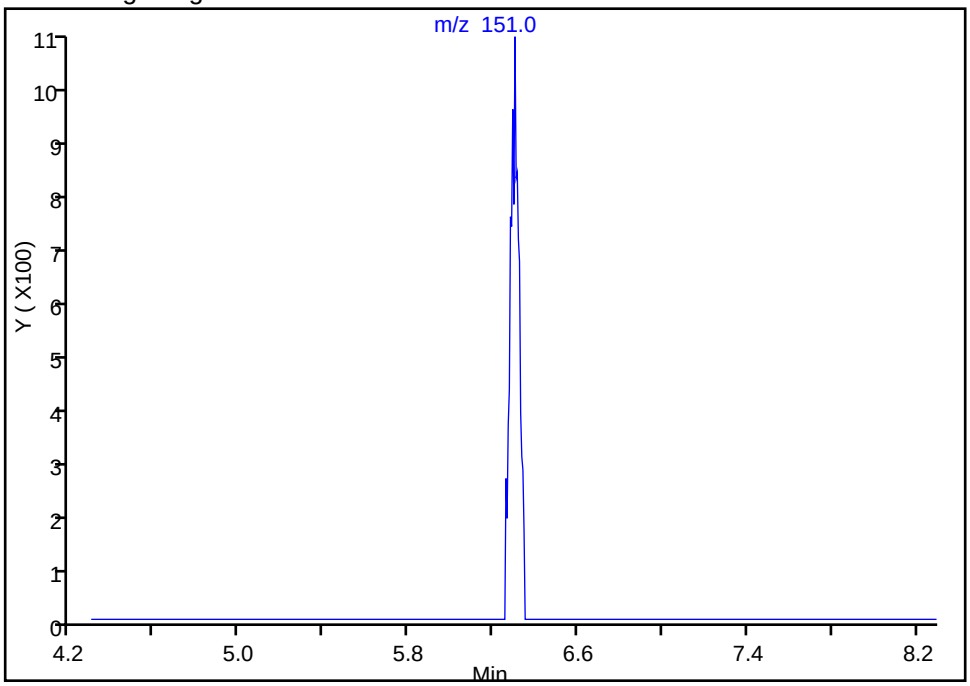
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

18 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

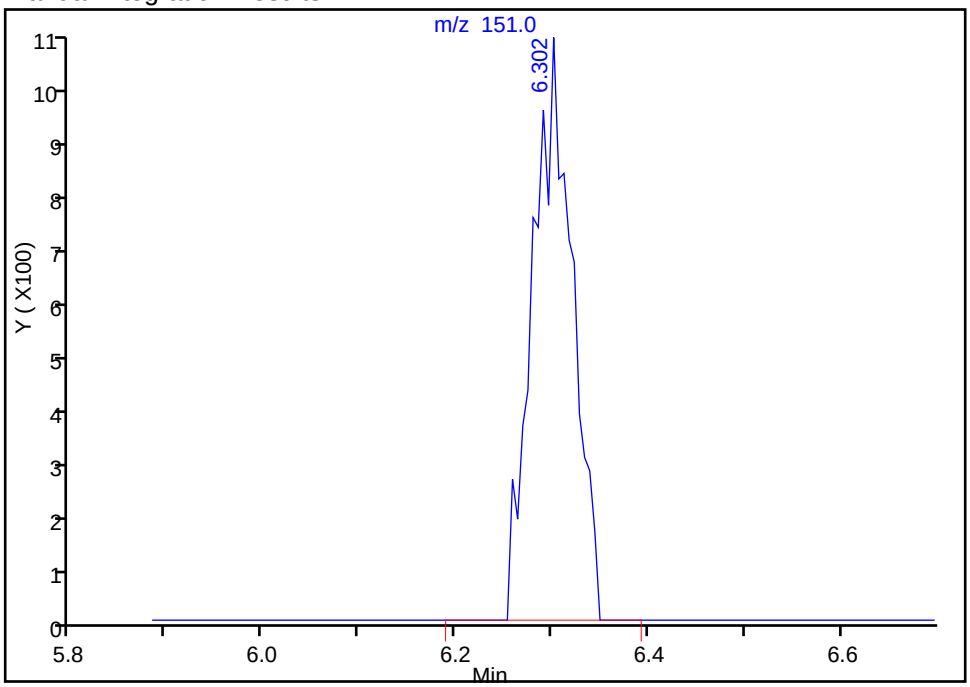
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.30
Area: 3107
Amount: 0.128540
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:49:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

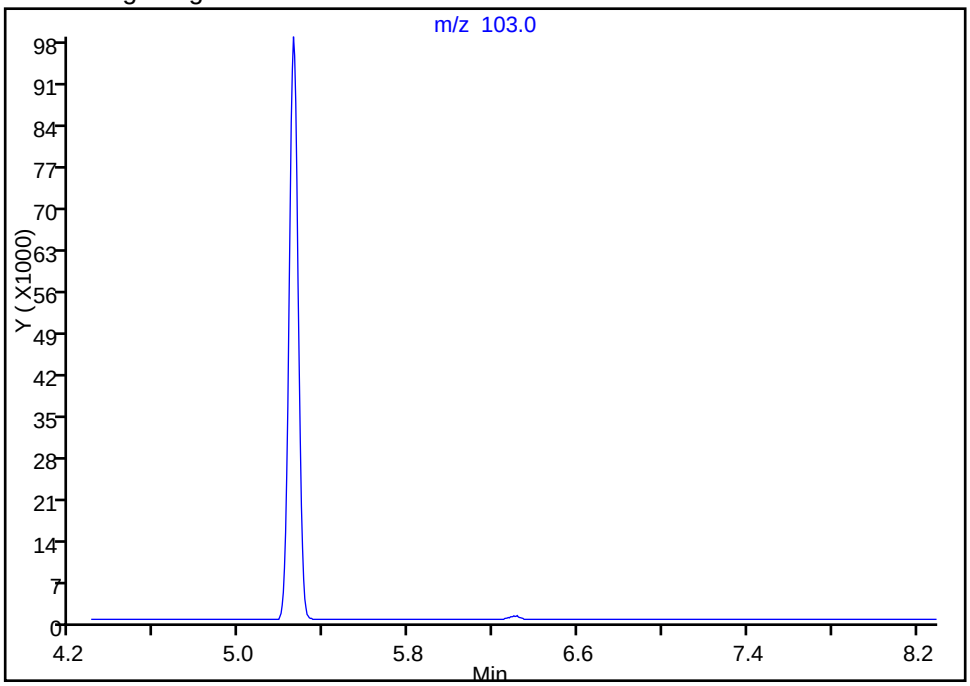
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

18 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.31
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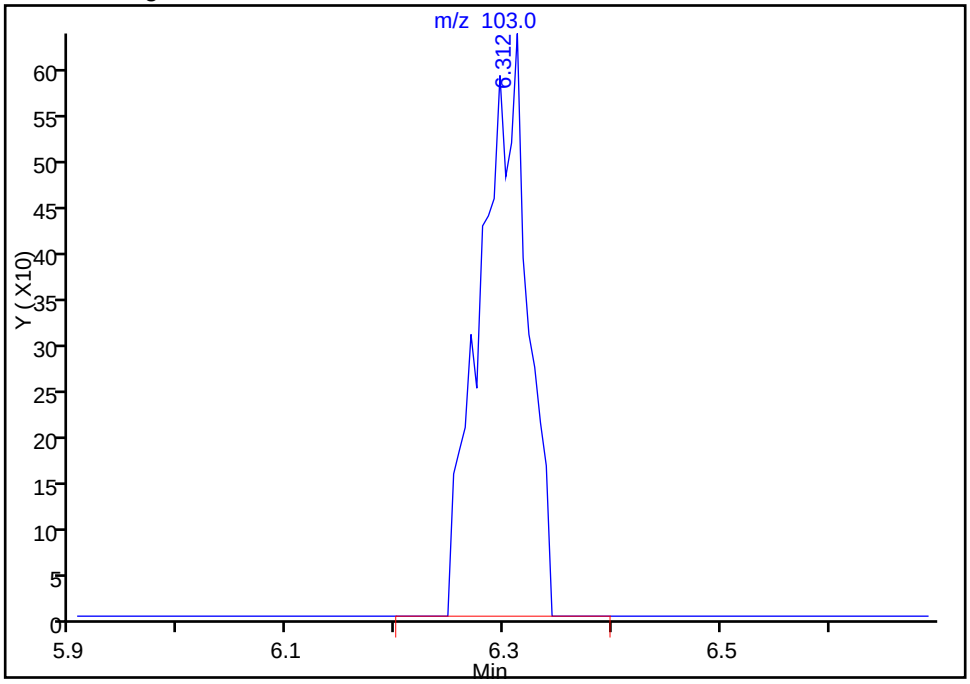
Amount: 0.128540
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:49:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

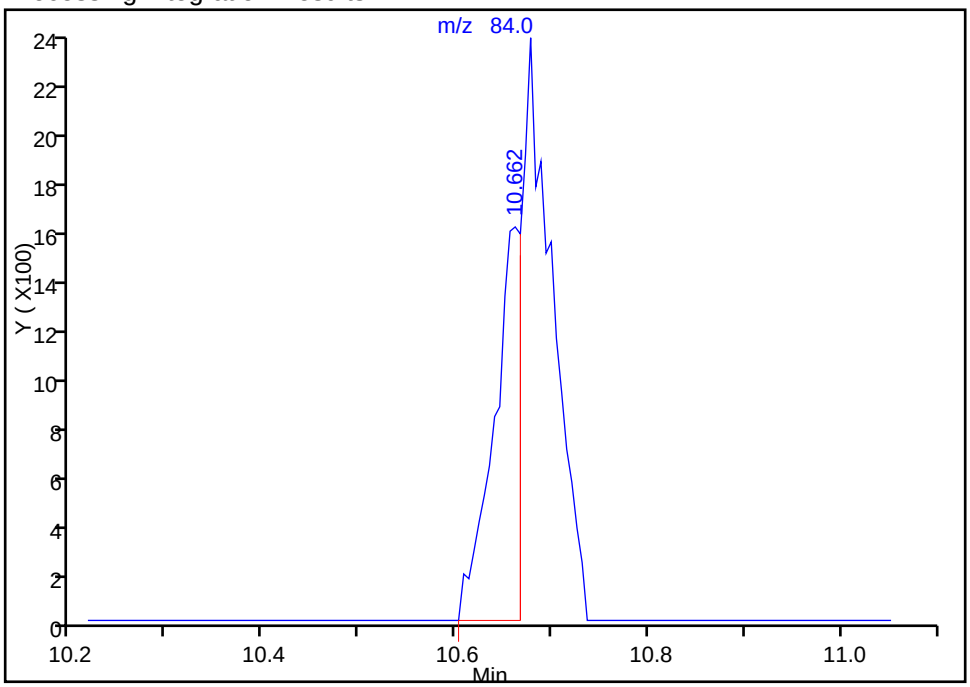
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

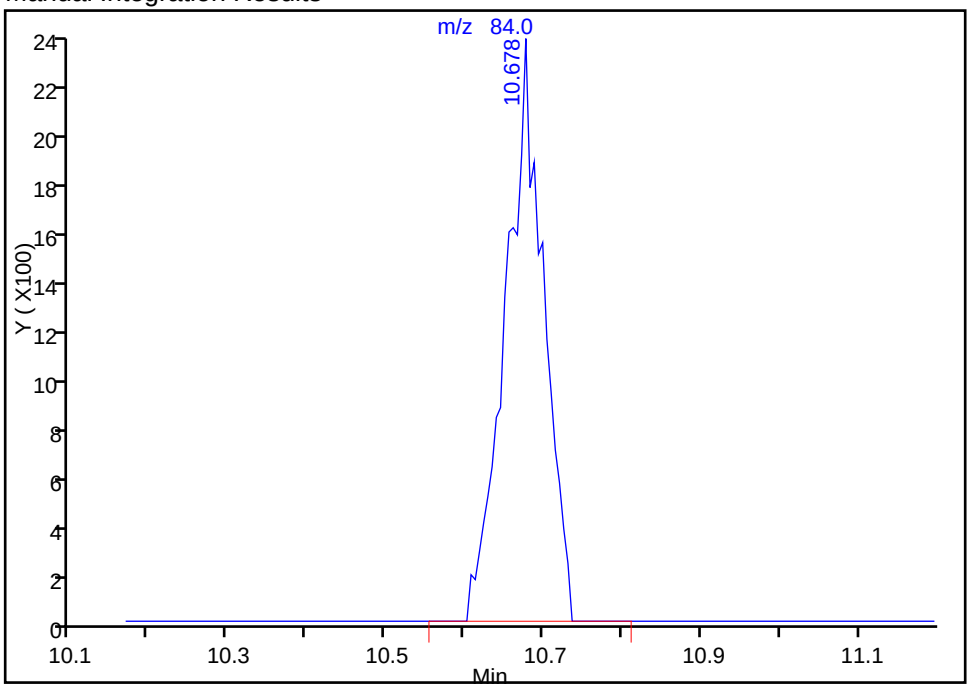
Processing Integration Results

RT: 10.66
Area: 3110
Amount: 0.170192
Amount Units: ppb v/v



Manual Integration Results

RT: 10.68
Area: 7759
Amount: 0.424606
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:49:57
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

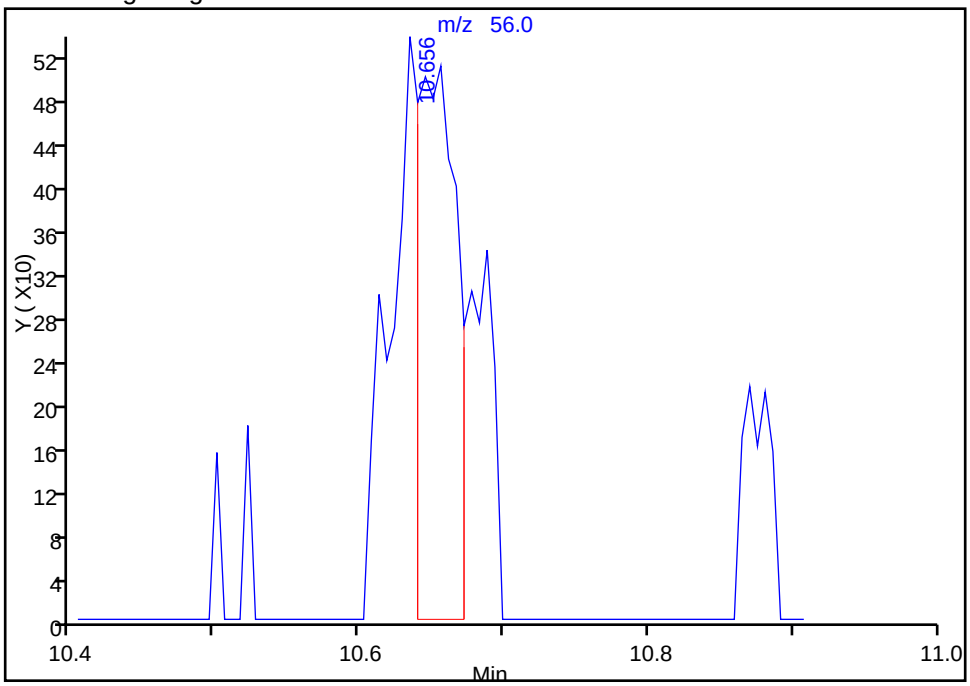
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_24.D				
Injection Date:	06-Oct-2015 03:33:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-19	Lab Sample ID:	200-29972-19		
Client ID:	FR-SSDUP-092315				
Operator ID:	wrd	ALS Bottle#:	5	Worklist Smp#:	24
Purge Vol:	200.000 mL	Dil. Factor:	3.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

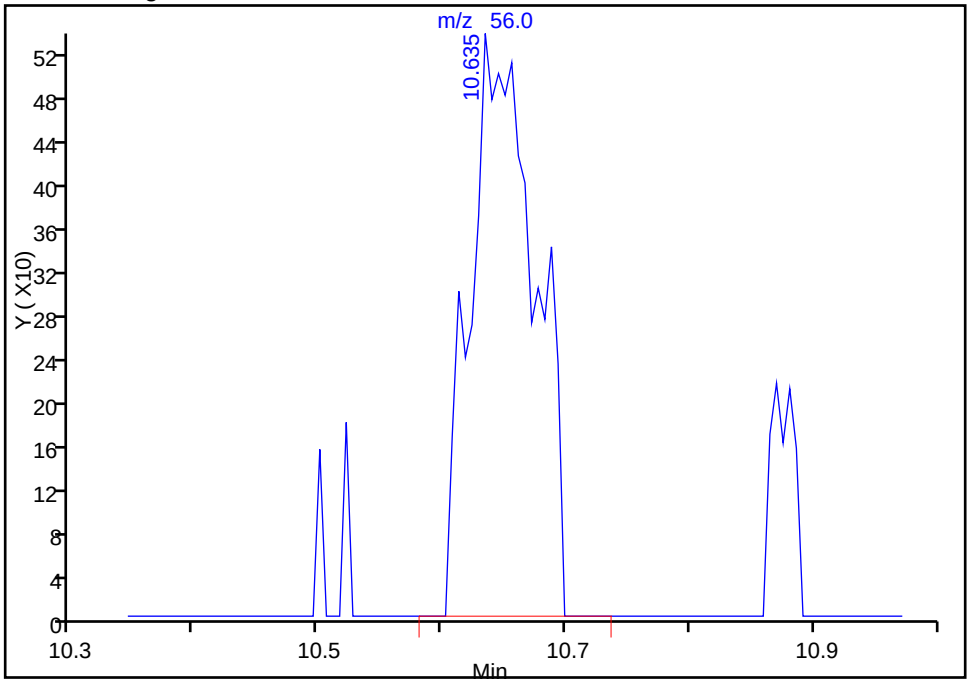
Processing Integration Results

RT: 10.66
Area: 984
Amount: 0.170192
Amount Units: ppb v/v



Manual Integration Results

RT: 10.63
Area: 1957
Amount: 0.424606
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:49:57
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS10-092315 | Lab Sample ID: 200-29972-20

Matrix: Air | Lab File ID: 16087_25.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 130(mL) | Date Analyzed: 10/06/2015 04:22

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	1.2		1.0	0.16
75-45-6	Freon 22	86.47	0.34	J	1.0	0.11
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.40	U	0.40	0.076
74-87-3	Chloromethane	50.49	0.19	J	1.0	0.19
106-97-8	n-Butane	58.12	1.2		1.0	0.16
75-01-4	Vinyl chloride	62.50	0.080	U	0.080	0.064
106-99-0	1,3-Butadiene	54.09	0.40	U	0.40	0.18
74-83-9	Bromomethane	94.94	0.40	U	0.40	0.11
75-00-3	Chloroethane	64.52	1.0	U	1.0	0.17
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.40	U	0.40	0.088
75-69-4	Trichlorofluoromethane	137.37	50		0.40	0.076
76-13-1	Freon TF	187.38	0.40	U	0.40	0.15
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.072
67-64-1	Acetone	58.08	8.9	J	10	1.7
67-63-0	Isopropyl alcohol	60.10	10	U	10	2.0
75-15-0	Carbon disulfide	76.14	0.62	J	1.0	0.086
107-05-1	3-Chloropropene	76.53	1.0	U	1.0	0.14
75-09-2	Methylene Chloride	84.93	0.45	J	1.0	0.36
75-65-0	tert-Butyl alcohol	74.12	10	U	10	1.7
1634-04-4	Methyl tert-butyl ether	88.15	0.40	U	0.40	0.18
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.086
110-54-3	n-Hexane	86.17	0.66		0.40	0.11
75-34-3	1,1-Dichloroethane	98.96	0.40	U	0.40	0.050
78-93-3	Methyl Ethyl Ketone	72.11	1.1		1.0	0.10
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.070
540-59-0	1,2-Dichloroethene, Total	96.94	0.80	U	0.80	0.070
67-66-3	Chloroform	119.38	0.40	U	0.40	0.16
109-99-9	Tetrahydrofuran	72.11	10	U	10	2.8
71-55-6	1,1,1-Trichloroethane	133.41	6.3		0.40	0.092
110-82-7	Cyclohexane	84.16	0.22	J	0.40	0.078
56-23-5	Carbon tetrachloride	153.81	0.080	U	0.080	0.064
540-84-1	2,2,4-Trimethylpentane	114.23	0.40	U	0.40	0.078
71-43-2	Benzene	78.11	0.38	J	0.40	0.084
107-06-2	1,2-Dichloroethane	98.96	0.40	U	0.40	0.082

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS10-092315 | Lab Sample ID: 200-29972-20

Matrix: Air | Lab File ID: 16087_25.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 130(mL) | Date Analyzed: 10/06/2015 04:22

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.31	J	0.40	0.080
79-01-6	Trichloroethene	131.39	0.75		0.080	0.078
80-62-6	Methyl methacrylate	100.12	1.0	U	1.0	0.080
78-87-5	1,2-Dichloropropane	112.99	0.40	U	0.40	0.054
123-91-1	1,4-Dioxane	88.11	10	U	10	1.1
75-27-4	Bromodichloromethane	163.83	0.40	U	0.40	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	0.40	U	0.40	0.046
108-10-1	methyl isobutyl ketone	100.16	0.33	J	1.0	0.10
108-88-3	Toluene	92.14	0.95		0.40	0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	0.40	U	0.40	0.068
79-00-5	1,1,2-Trichloroethane	133.41	0.40	U	0.40	0.078
127-18-4	Tetrachloroethene	165.83	0.23	J	0.40	0.046
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.0	U	1.0	0.11
124-48-1	Dibromochloromethane	208.29	0.40	U	0.40	0.088
106-93-4	1,2-Dibromoethane	187.87	0.40	U	0.40	0.078
108-90-7	Chlorobenzene	112.56	0.40	U	0.40	0.098
100-41-4	Ethylbenzene	106.17	0.084	J	0.40	0.066
179601-23-1	m,p-Xylene	106.17	0.34	J	1.0	0.14
95-47-6	Xylene, o-	106.17	0.13	J	0.40	0.074
1330-20-7	Xylene (total)	106.17	0.47	J	1.4	0.074
100-42-5	Styrene	104.15	0.40	U	0.40	0.086
75-25-2	Bromoform	252.75	0.40	U	0.40	0.11
98-82-8	Cumene	120.19	0.40	U	0.40	0.060
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.40	U	0.40	0.088
103-65-1	n-Propylbenzene	120.19	0.40	U	0.40	0.086
622-96-8	4-Ethyltoluene	120.20	0.40	U	0.40	0.088
108-67-8	1,3,5-Trimethylbenzene	120.20	0.40	U	0.40	0.078
95-49-8	2-Chlorotoluene	126.59	0.40	U	0.40	0.066
98-06-6	tert-Butylbenzene	134.22	0.40	U	0.40	0.088
95-63-6	1,2,4-Trimethylbenzene	120.20	0.40	U	0.40	0.086
135-98-8	sec-Butylbenzene	134.22	0.40	U	0.40	0.088
99-87-6	4-Isopropyltoluene	134.22	0.40	U	0.40	0.074
541-73-1	1,3-Dichlorobenzene	147.00	0.40	U	0.40	0.11
106-46-7	1,4-Dichlorobenzene	147.00	0.40	U	0.40	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS10-092315 Lab Sample ID: 200-29972-20

Matrix: Air Lab File ID: 16087_25.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 130(mL) Date Analyzed: 10/06/2015 04:22

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.40	U	0.40	0.11
104-51-8	n-Butylbenzene	134.22	0.40	U	0.40	0.094
95-50-1	1,2-Dichlorobenzene	147.00	0.40	U	0.40	0.11
120-82-1	1,2,4-Trichlorobenzene	181.45	1.0	U	1.0	0.14
87-68-3	Hexachlorobutadiene	260.76	0.40	U	0.40	0.16
91-20-3	Naphthalene	128.17	1.0	U	1.0	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS10-092315 | Lab Sample ID: 200-29972-20

Matrix: Air | Lab File ID: 16087_25.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 130(mL) | Date Analyzed: 10/06/2015 04:22

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	6.1		4.9	0.79
75-45-6	Freon 22	86.47	1.2	J	3.5	0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.8	U	2.8	0.53
74-87-3	Chloromethane	50.49	0.40	J	2.1	0.38
106-97-8	n-Butane	58.12	2.8		2.4	0.37
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.16
106-99-0	1,3-Butadiene	54.09	0.88	U	0.88	0.39
74-83-9	Bromomethane	94.94	1.6	U	1.6	0.43
75-00-3	Chloroethane	64.52	2.6	U	2.6	0.45
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.7	U	1.7	0.38
75-69-4	Trichlorofluoromethane	137.37	280		2.2	0.43
76-13-1	Freon TF	187.38	3.1	U	3.1	1.1
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	0.29
67-64-1	Acetone	58.08	21	J	24	4.1
67-63-0	Isopropyl alcohol	60.10	25	U	25	4.8
75-15-0	Carbon disulfide	76.14	1.9	J	3.1	0.27
107-05-1	3-Chloropropene	76.53	3.1	U	3.1	0.43
75-09-2	Methylene Chloride	84.93	1.6	J	3.5	1.3
75-65-0	tert-Butyl alcohol	74.12	30	U	30	5.2
1634-04-4	Methyl tert-butyl ether	88.15	1.4	U	1.4	0.64
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	0.34
110-54-3	n-Hexane	86.17	2.3		1.4	0.38
75-34-3	1,1-Dichloroethane	98.96	1.6	U	1.6	0.20
78-93-3	Methyl Ethyl Ketone	72.11	3.3		2.9	0.31
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	0.28
540-59-0	1,2-Dichloroethene, Total	96.94	3.2	U	3.2	0.28
67-66-3	Chloroform	119.38	2.0	U	2.0	0.80
109-99-9	Tetrahydrofuran	72.11	29	U	29	8.3
71-55-6	1,1,1-Trichloroethane	133.41	34		2.2	0.50
110-82-7	Cyclohexane	84.16	0.77	J	1.4	0.27
56-23-5	Carbon tetrachloride	153.81	0.50	U	0.50	0.40
540-84-1	2,2,4-Trimethylpentane	114.23	1.9	U	1.9	0.36
71-43-2	Benzene	78.11	1.2	J	1.3	0.27
107-06-2	1,2-Dichloroethane	98.96	1.6	U	1.6	0.33

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS10-092315 | Lab Sample ID: 200-29972-20

Matrix: Air | Lab File ID: 16087_25.D

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 130(mL) | Date Analyzed: 10/06/2015 04:22

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.3	J	1.6	0.33
79-01-6	Trichloroethene	131.39	4.1		0.43	0.42
80-62-6	Methyl methacrylate	100.12	4.1	U	4.1	0.33
78-87-5	1,2-Dichloropropane	112.99	1.8	U	1.8	0.25
123-91-1	1,4-Dioxane	88.11	36	U	36	4.0
75-27-4	Bromodichloromethane	163.83	2.7	U	2.7	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	1.8	U	1.8	0.21
108-10-1	methyl isobutyl ketone	100.16	1.3	J	4.1	0.41
108-88-3	Toluene	92.14	3.6		1.5	0.70
10061-02-6	trans-1,3-Dichloropropene	110.97	1.8	U	1.8	0.31
79-00-5	1,1,2-Trichloroethane	133.41	2.2	U	2.2	0.43
127-18-4	Tetrachloroethene	165.83	1.6	J	2.7	0.31
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	4.1	U	4.1	0.47
124-48-1	Dibromochloromethane	208.29	3.4	U	3.4	0.75
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	0.60
108-90-7	Chlorobenzene	112.56	1.8	U	1.8	0.45
100-41-4	Ethylbenzene	106.17	0.37	J	1.7	0.29
179601-23-1	m,p-Xylene	106.17	1.5	J	4.3	0.62
95-47-6	Xylene, o-	106.17	0.55	J	1.7	0.32
1330-20-7	Xylene (total)	106.17	2.0	J	6.1	0.32
100-42-5	Styrene	104.15	1.7	U	1.7	0.37
75-25-2	Bromoform	252.75	4.1	U	4.1	1.2
98-82-8	Cumene	120.19	2.0	U	2.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.7	U	2.7	0.60
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.42
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.43
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.38
95-49-8	2-Chlorotoluene	126.59	2.1	U	2.1	0.34
98-06-6	tert-Butylbenzene	134.22	2.2	U	2.2	0.48
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.42
135-98-8	sec-Butylbenzene	134.22	2.2	U	2.2	0.48
99-87-6	4-Isopropyltoluene	134.22	2.2	U	2.2	0.41
541-73-1	1,3-Dichlorobenzene	147.00	2.4	U	2.4	0.66
106-46-7	1,4-Dichlorobenzene	147.00	2.4	U	2.4	0.69

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-SS10-092315 Lab Sample ID: 200-29972-20

Matrix: Air Lab File ID: 16087_25.D

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 130(mL) Date Analyzed: 10/06/2015 04:22

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	2.1	U	2.1	0.55
104-51-8	n-Butylbenzene	134.22	2.2	U	2.2	0.52
95-50-1	1,2-Dichlorobenzene	147.00	2.4	U	2.4	0.66
120-82-1	1,2,4-Trichlorobenzene	181.45	7.4	U	7.4	1.0
87-68-3	Hexachlorobutadiene	260.76	4.3	U	4.3	1.7
91-20-3	Naphthalene	128.17	5.2	U	5.2	0.60

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D
Lims ID: 200-29972-A-20 Lab Sample ID: 200-29972-20
Client ID: FR-SS10-092315
Sample Type: Client
Inject. Date: 06-Oct-2015 04:22:30 ALS Bottle#: 6 Worklist Smp#: 25
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Sample Info: 200-0016087-025
Misc. Info.: 29972-20
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Oct-2015 11:51:59 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 06-Oct-2015 11:51:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	3.167	3.172	-0.005	99	15870	0.6168	
3 Chlorodifluoromethane	51	3.215	3.226	-0.011	95	2132	0.1713	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50	3.573	3.579	-0.006	89	703	0.0971	
6 Butane	43	3.760	3.771	-0.011	91	6965	0.5856	
7 Vinyl chloride	62		3.814				ND	
8 Butadiene	54		3.889				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.788				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101	5.248	5.259	-0.011	98	714867	25.2	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43	6.601	6.612	-0.011	87	51587	4.46	
22 Carbon disulfide	76	6.735	6.746	-0.011	98	8311	0.3080	
23 Isopropyl alcohol	45	6.976	6.922	0.054	96	1958	0.1785	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.409	7.414	-0.005	87	2196	0.2252	
28 2-Methyl-2-propanol	59		7.709				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57	8.190	8.212	-0.022	90	4810	0.3322	
33 1,1-Dichloroethane	63		8.709				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72	9.907	9.881	0.026	97	3470	0.5648	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.271	10.282	-0.011	74	132276	10.0	
39 Tetrahydrofuran	42	10.357	10.298	0.059	91	5962	0.5698	
41 Chloroform	83		10.410				ND	
42 Cyclohexane	84	10.651	10.640	0.000	1	2061	0.1121	M
43 1,1,1-Trichloroethane	97	10.672	10.683	-0.011	96	84302	3.15	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	44 Carbon tetrachloride	117	10.908	10.929	-0.021	63	702	0.0252	
	45 Isooctane	57		11.368				ND	
	46 Benzene	78	11.395	11.411	-0.016	94	8159	0.1903	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43	11.726	11.753	-0.027	56	3258	0.1575	
*	50 1,4-Difluorobenzene	114	12.250	12.261	-0.011	92	734377	10.0	
	52 Trichloroethene	95	12.727	12.743	-0.016	94	8156	0.3775	
	53 1,2-Dichloropropane	63		13.331				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.572				ND	
	57 Dichlorobromomethane	83		13.904				ND	
	58 cis-1,3-Dichloropropene	75		14.872				ND	
	61 4-Methyl-2-pentanone (MIBK	43	15.214	15.193	0.021	91	4580	0.1634	
	62 Toluene	92	15.466	15.476	-0.010	93	18061	0.4770	
	67 trans-1,3-Dichloropropene	75		16.092				ND	
	68 1,1,2-Trichloroethane	83		16.482				ND	
	69 Tetrachloroethene	166	16.568	16.568	-0.011	91	4422	0.1173	M
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.263				ND	
	72 Ethylene Dibromide	107		17.547				ND	
*	73 Chlorobenzene-d5	117	18.440	18.446	-0.006	82	743584	10.0	
	74 Chlorobenzene	112		18.510				ND	
	75 Ethylbenzene	91	18.643	18.643	-0.006	90	3441	0.0422	M
	77 m-Xylene & p-Xylene	106	18.889	18.906	-0.017	99	5935	0.1724	
	78 o-Xylene	106	19.708	19.719	-0.011	95	2146	0.0631	
	79 Styrene	104	19.751	19.767	-0.016	1	1546	0.0291	
S	80 Xylenes, Total	106				0		0.2355	
	81 Bromoform	173		20.179				ND	
	82 Isopropylbenzene	105		20.355				ND	
	85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
	86 N-Propylbenzene	91		21.035				ND	
	89 4-Ethyltoluene	105		21.217				ND	
	90 2-Chlorotoluene	91		21.238				ND	
	91 1,3,5-Trimethylbenzene	105		21.318				ND	
	93 tert-Butylbenzene	119		21.789				ND	
	94 1,2,4-Trimethylbenzene	105	21.875	21.880	-0.005	90	1471	0.0181	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119		22.297				ND	
	97 1,3-Dichlorobenzene	146		22.346				ND	
	98 1,4-Dichlorobenzene	146		22.485				ND	
	99 Benzyl chloride	91		22.688				ND	
	101 n-Butylbenzene	91		22.886				ND	
	102 1,2-Dichlorobenzene	146		23.041				ND	
	104 1,2,4-Trichlorobenzene	180		25.673				ND	
	105 Hexachlorobutadiene	225		25.855				ND	
	106 Naphthalene	128		26.197				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

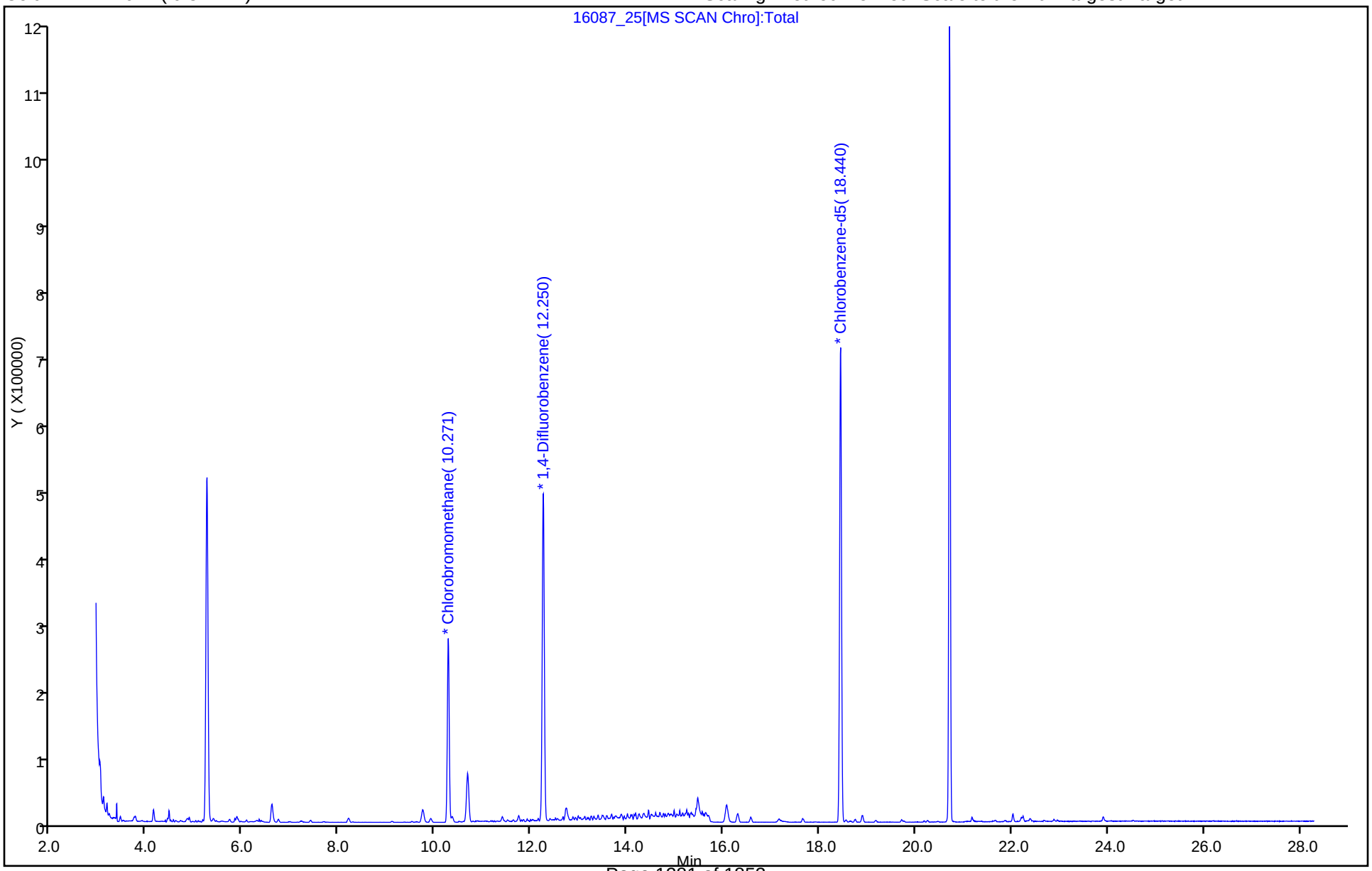
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20	Worklist Smp#:	25
Client ID:	FR-SS10-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

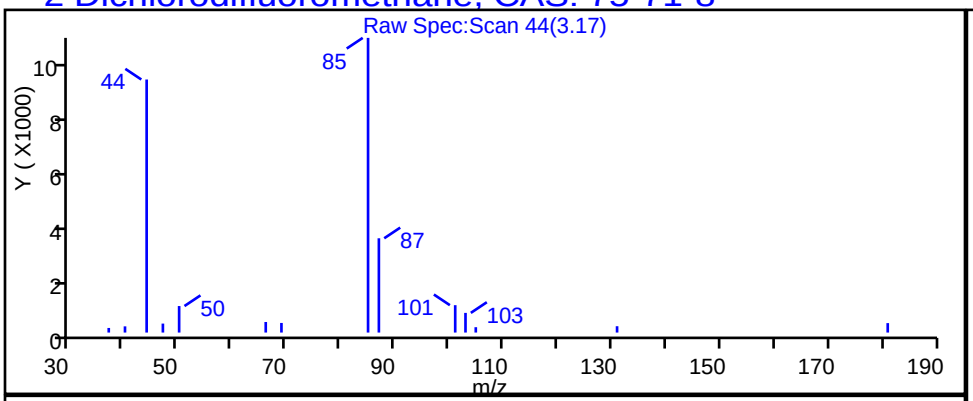


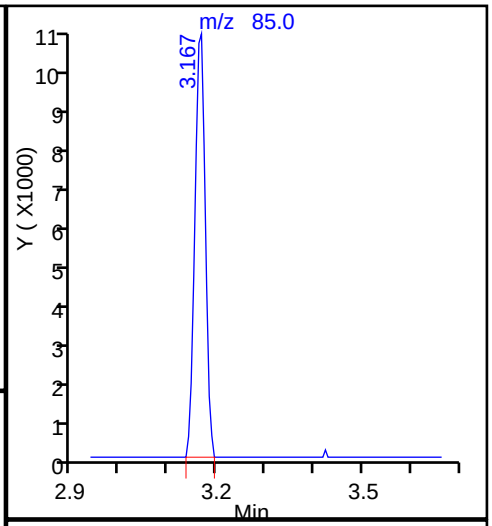
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

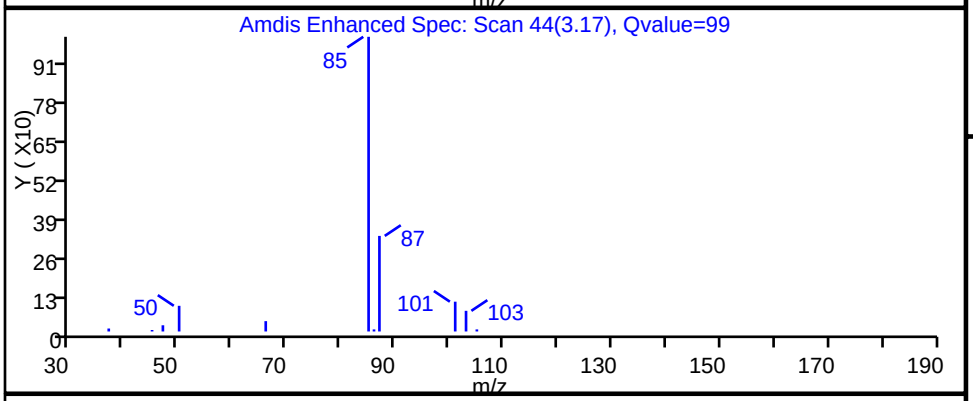
TestAmerica Burlington

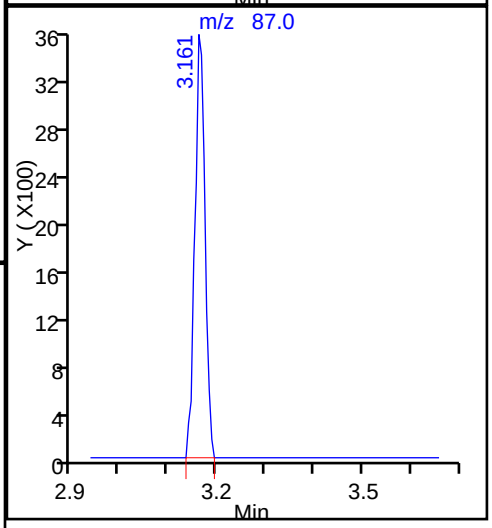
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

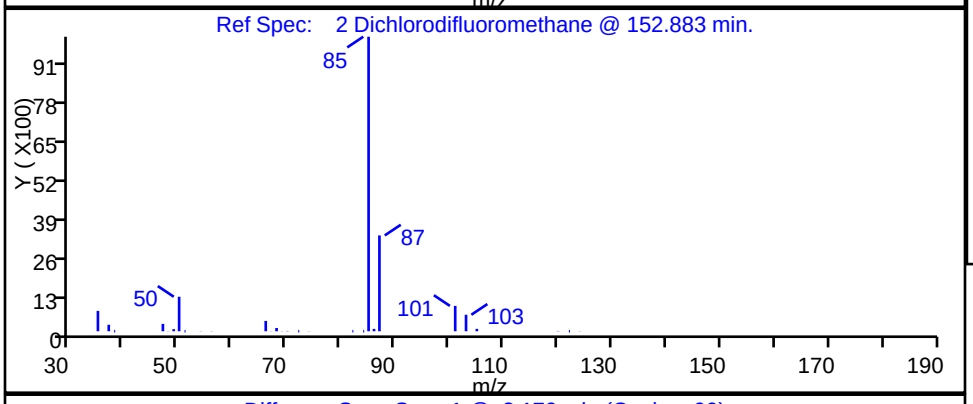
2 Dichlorodifluoromethane, CAS: 75-71-8

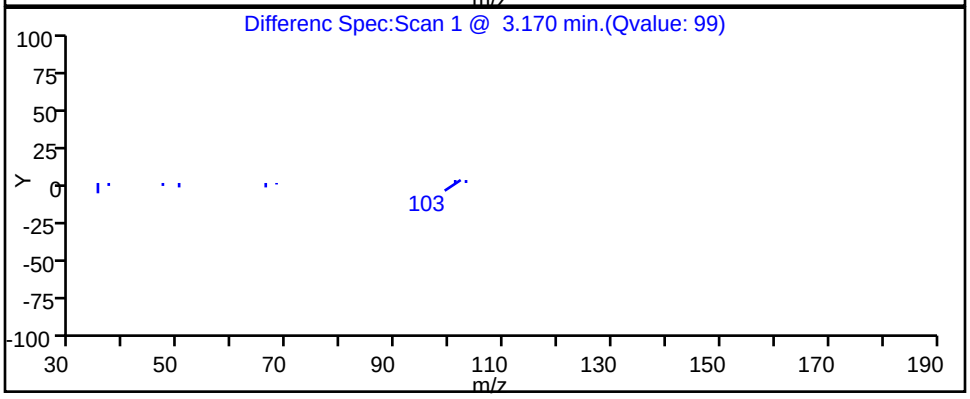










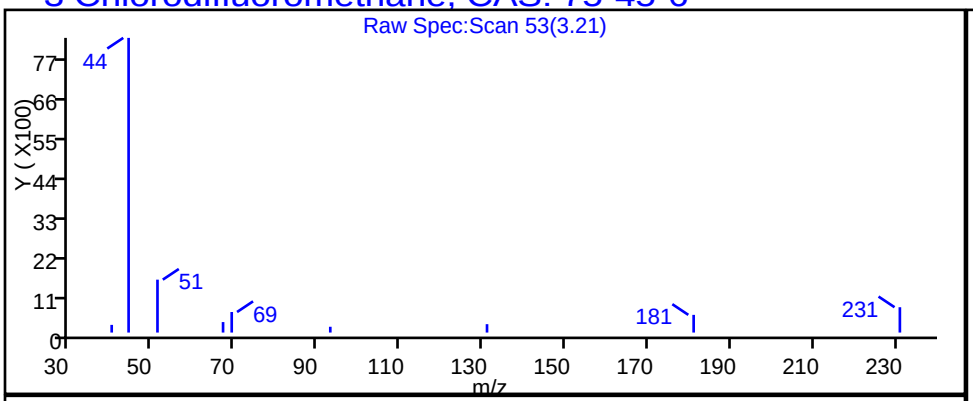


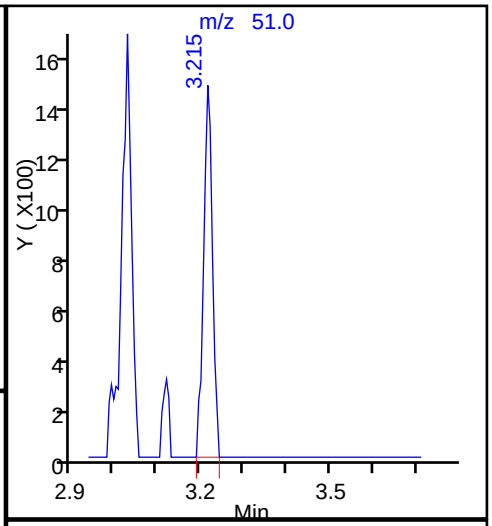
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

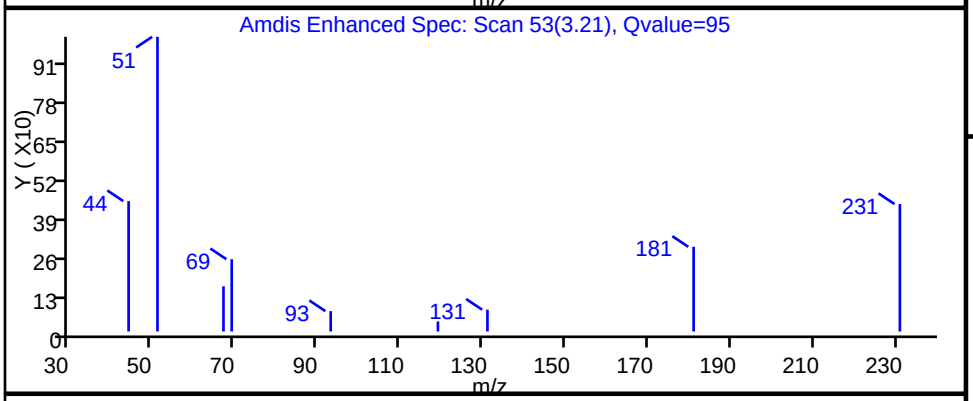
TestAmerica Burlington

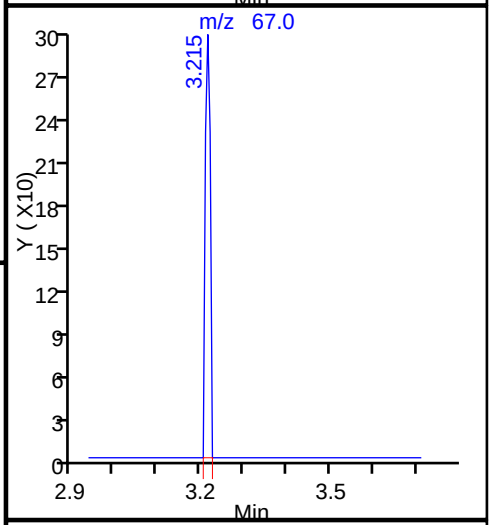
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

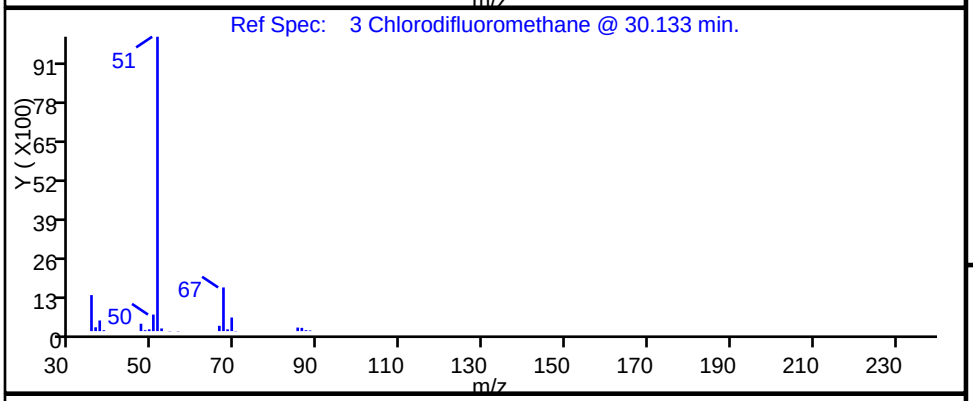
3 Chlorodifluoromethane, CAS: 75-45-6

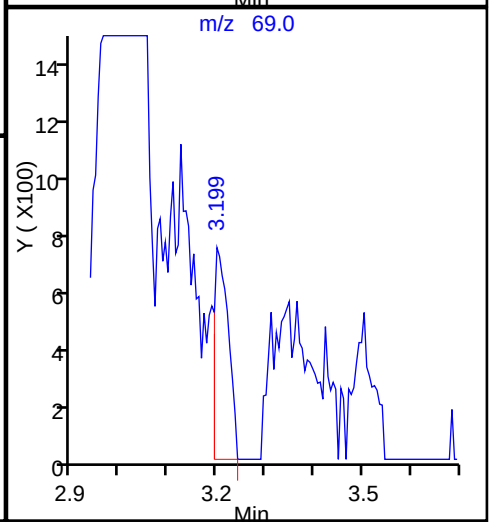


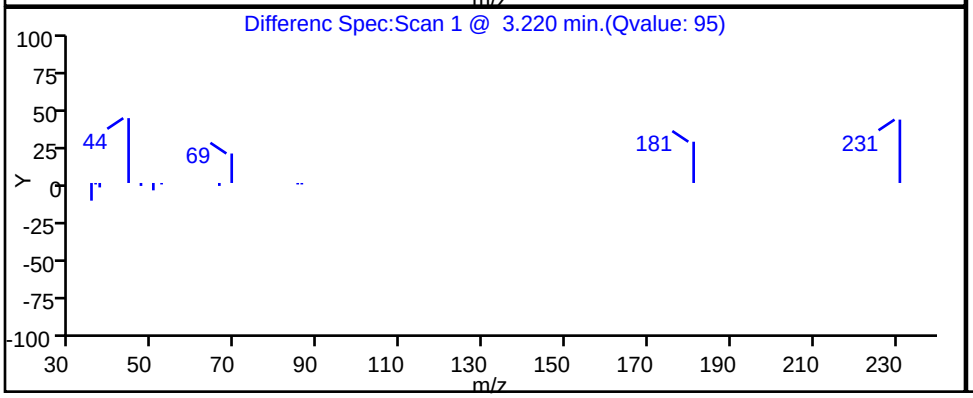












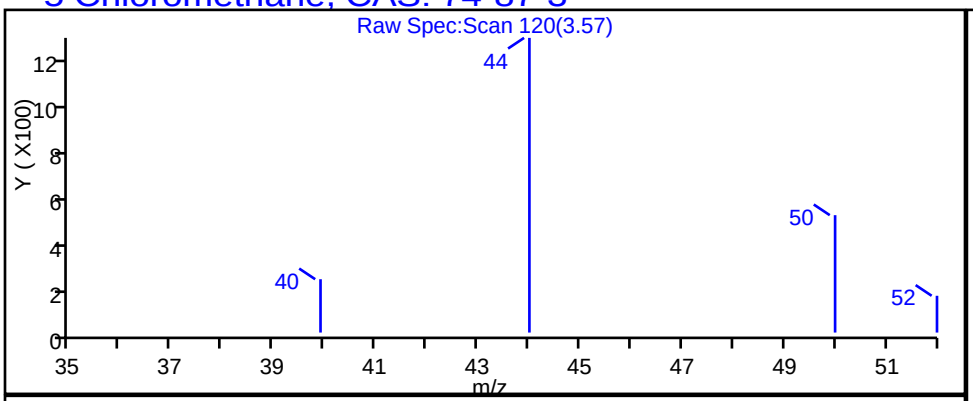
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

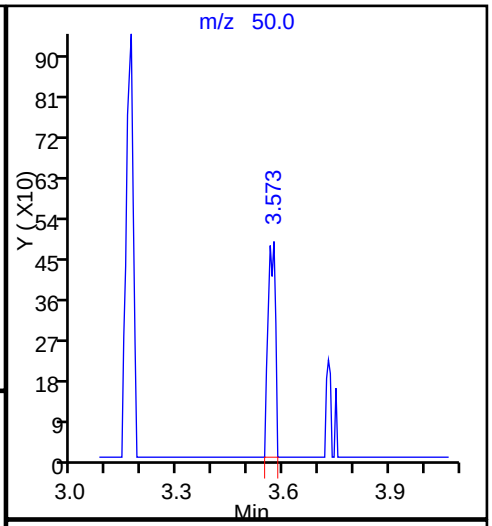
TestAmerica Burlington

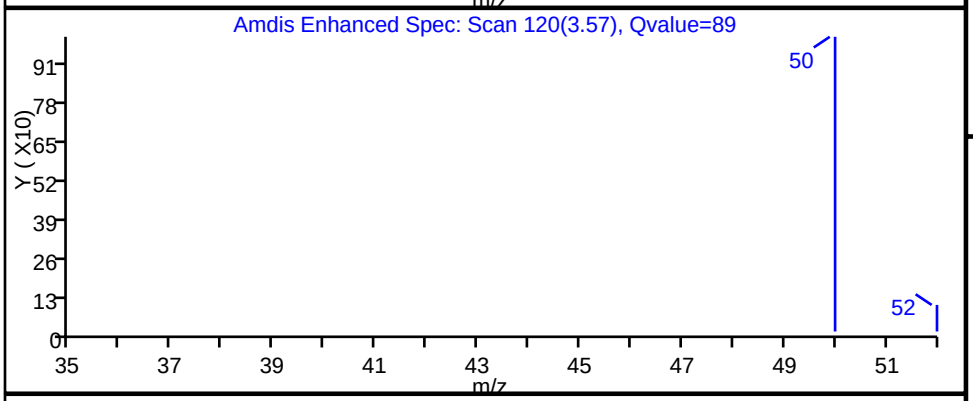
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

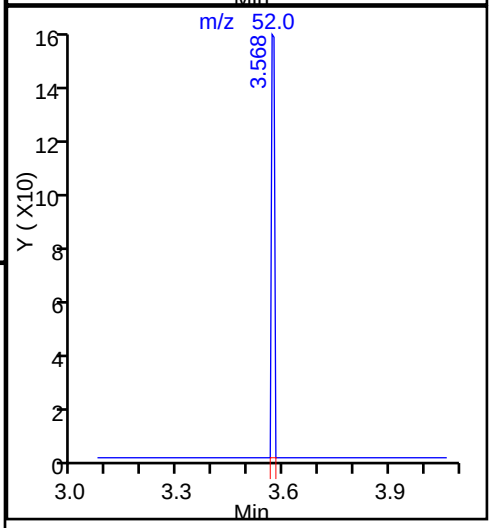
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

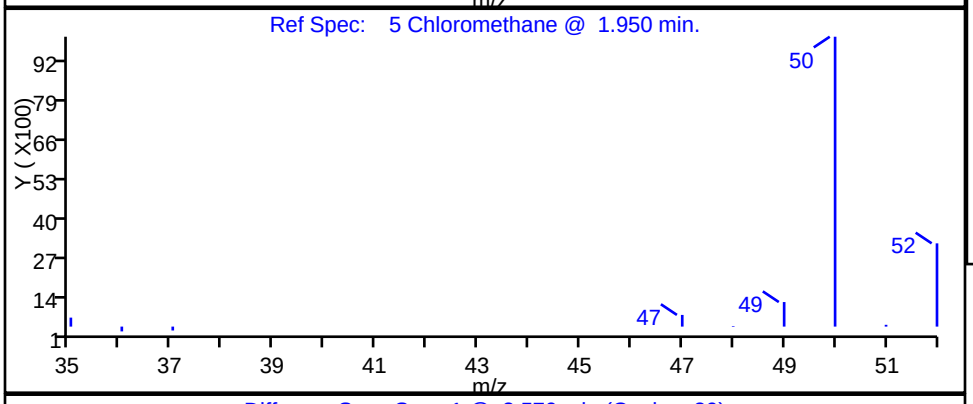
5 Chloromethane, CAS: 74-87-3

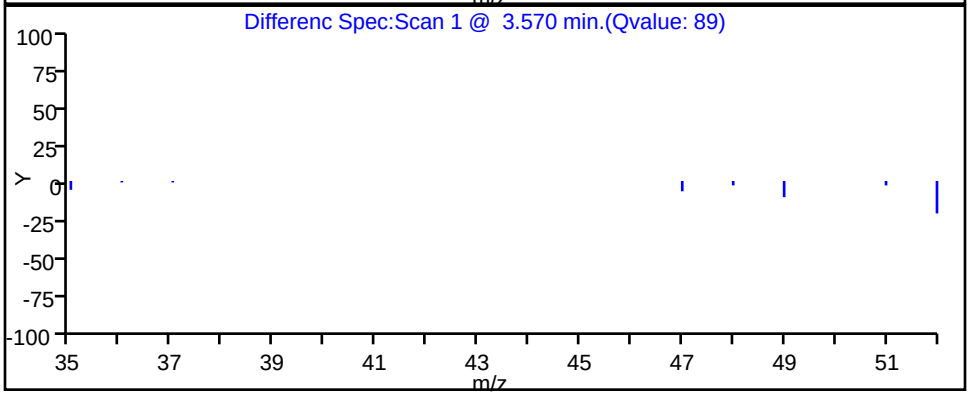












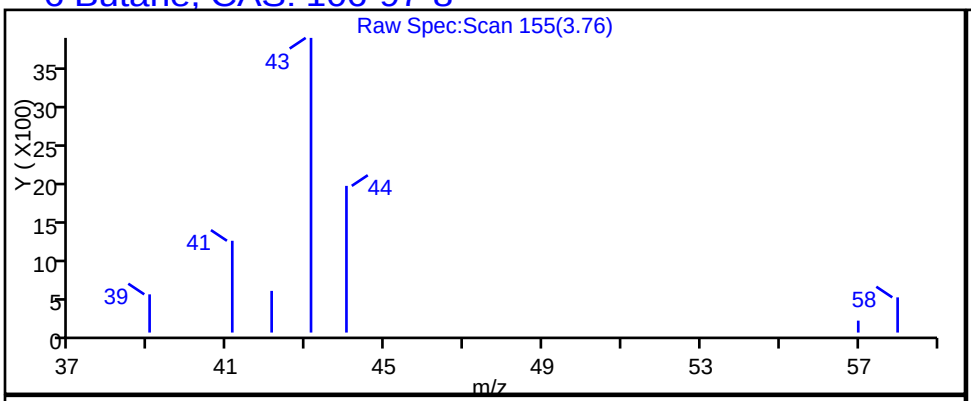
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

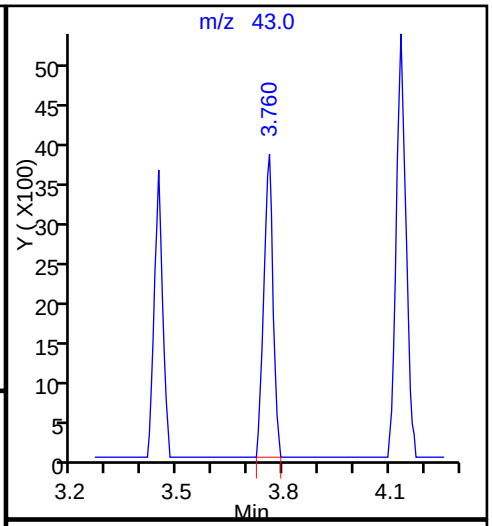
TestAmerica Burlington

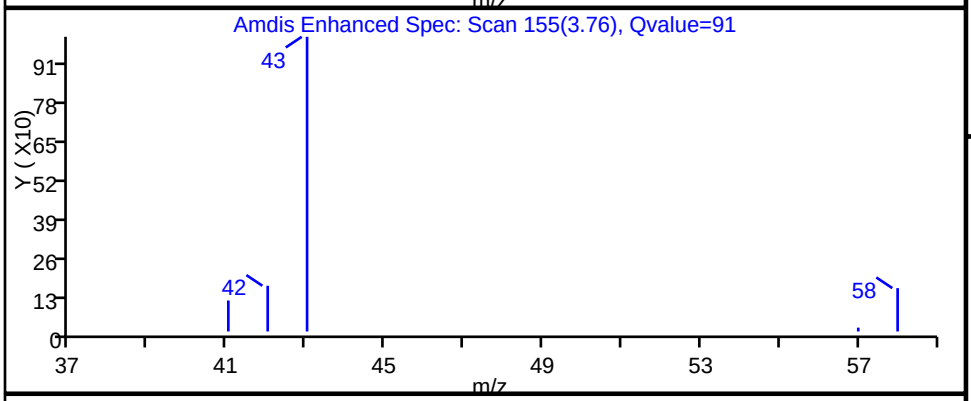
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

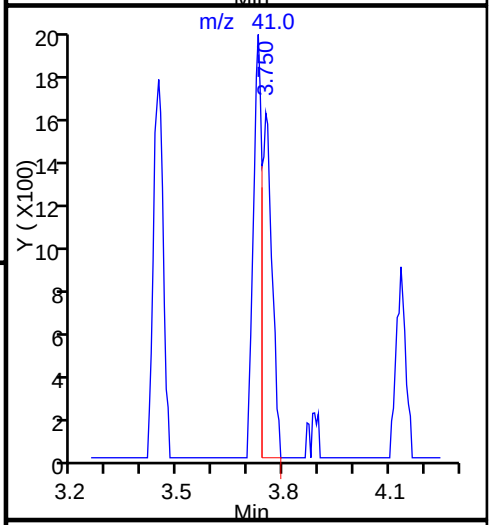
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

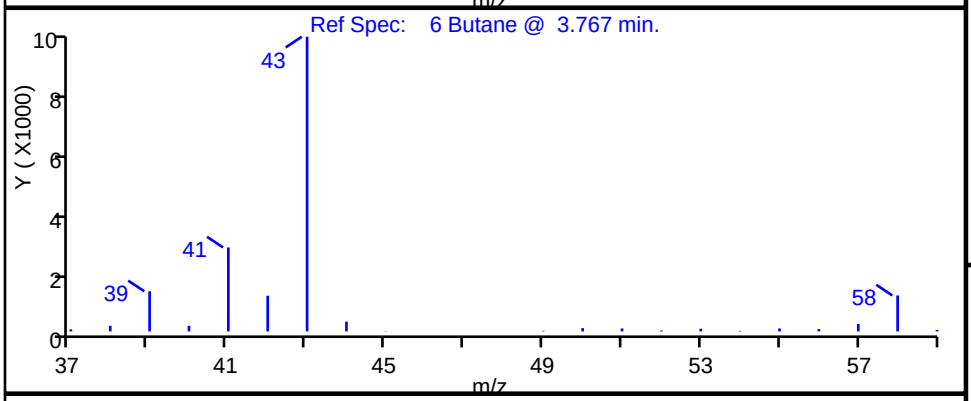
6 Butane, CAS: 106-97-8

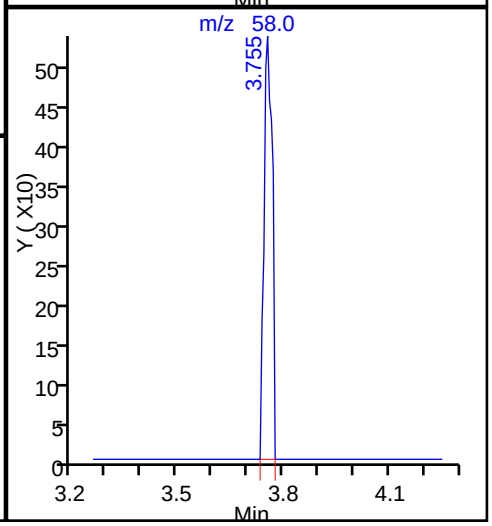


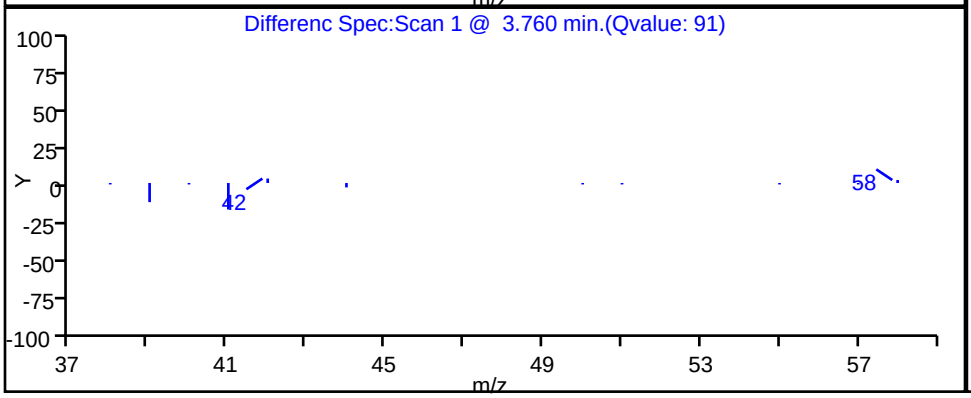












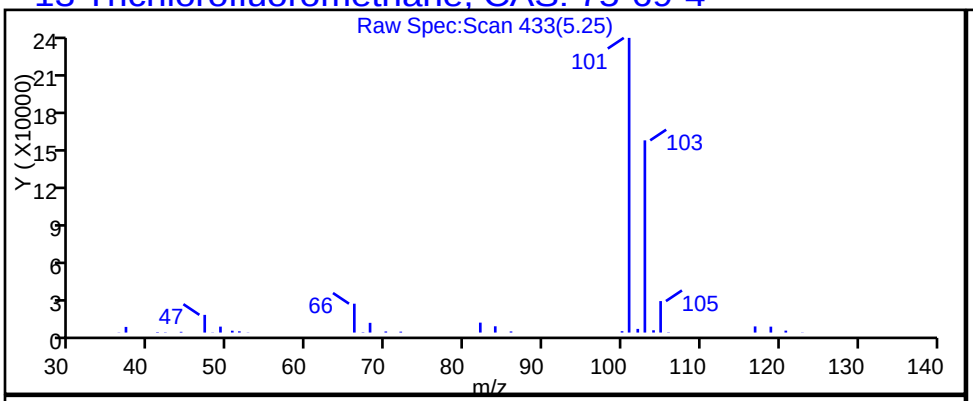
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

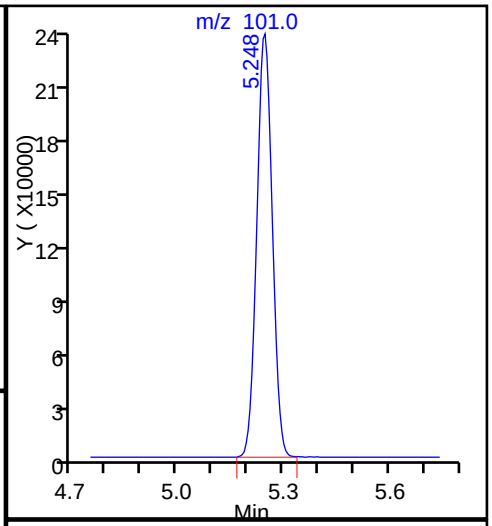
TestAmerica Burlington

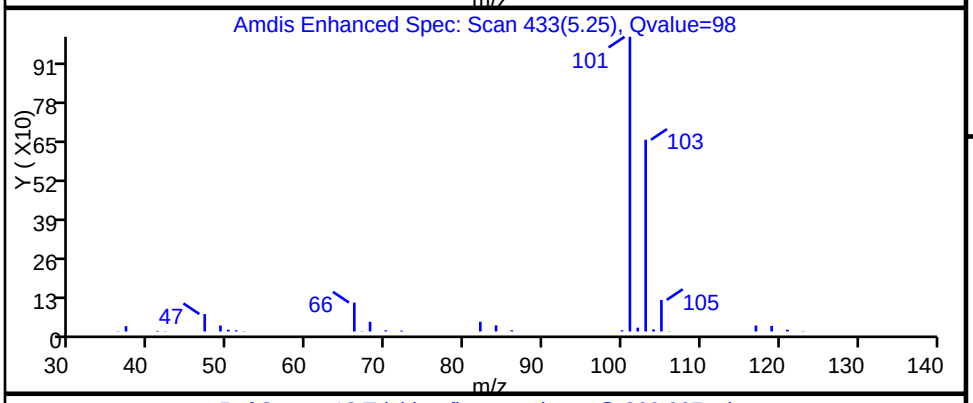
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

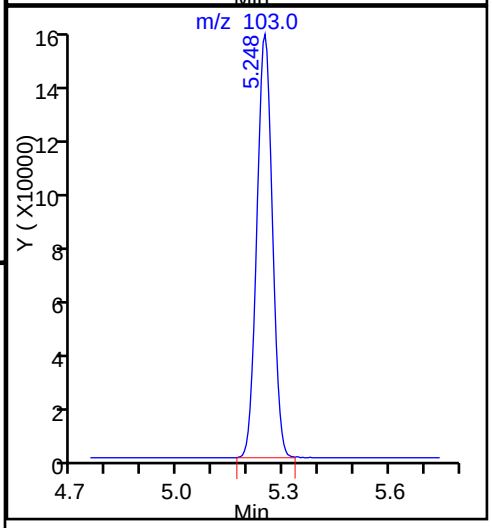
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

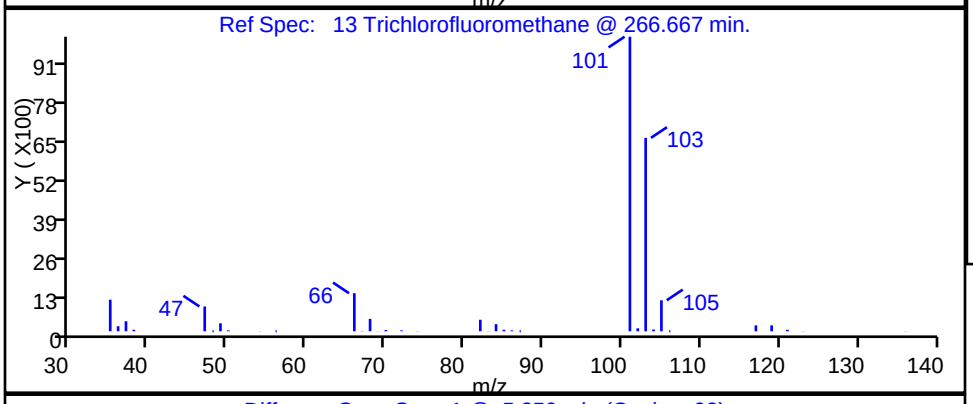
13 Trichlorofluoromethane, CAS: 75-69-4

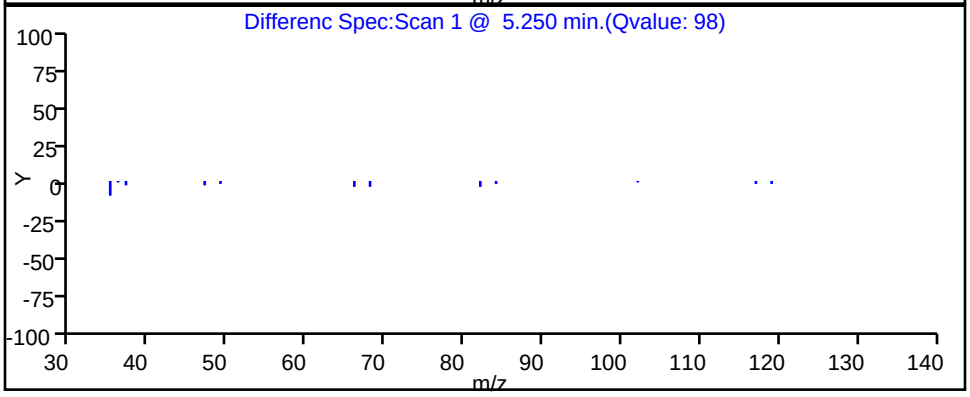












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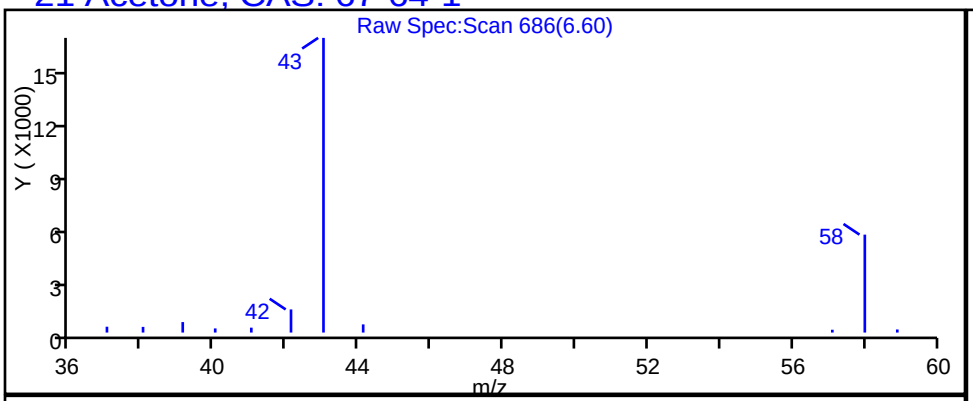
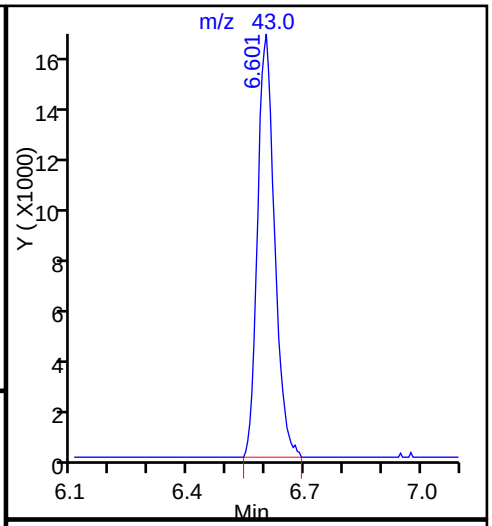
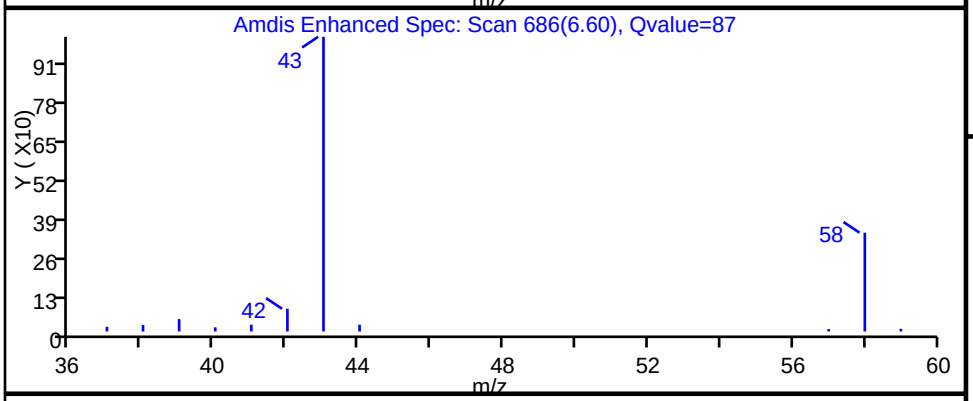
TestAmerica Burlington

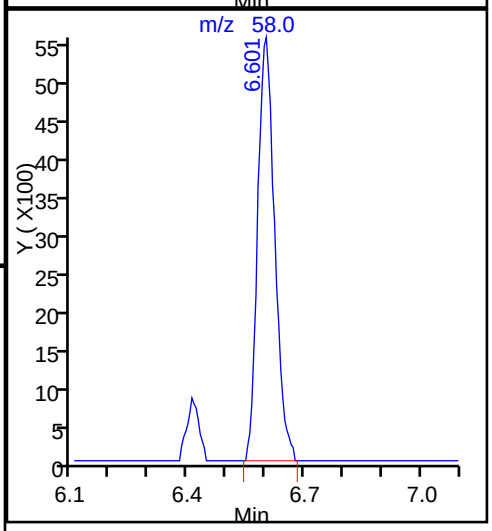
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

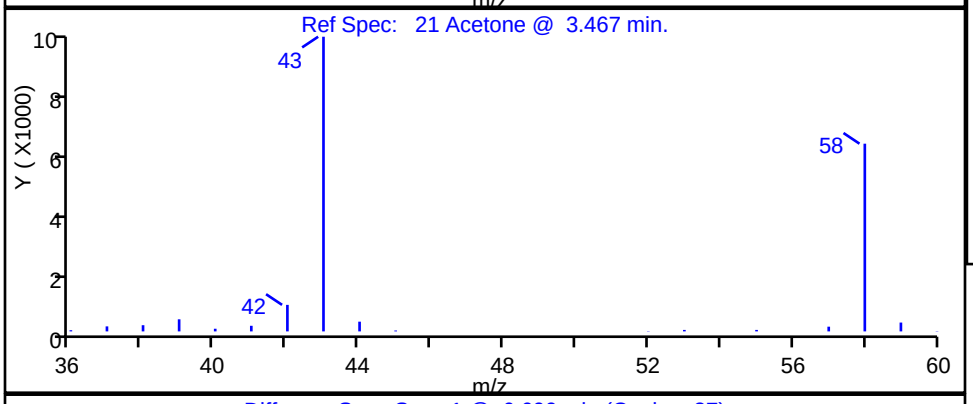
21 Acetone, CAS: 67-64-1

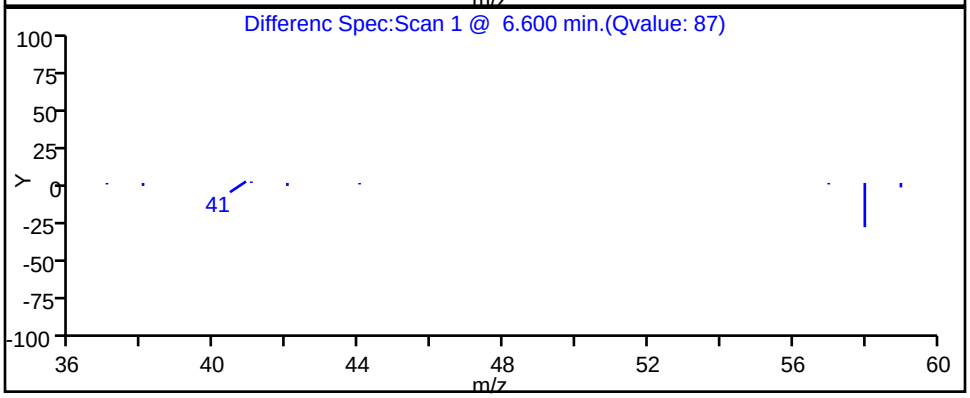












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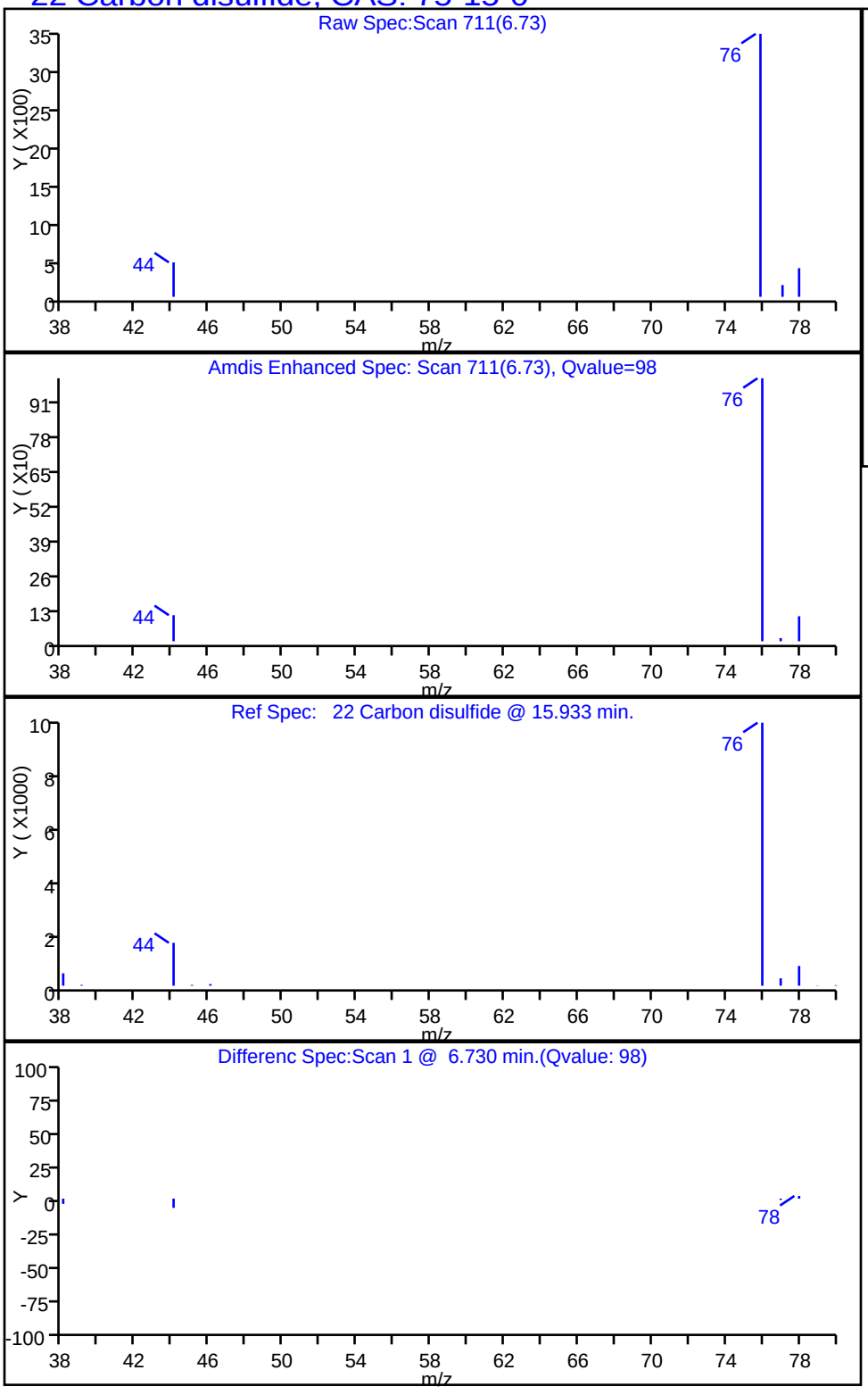
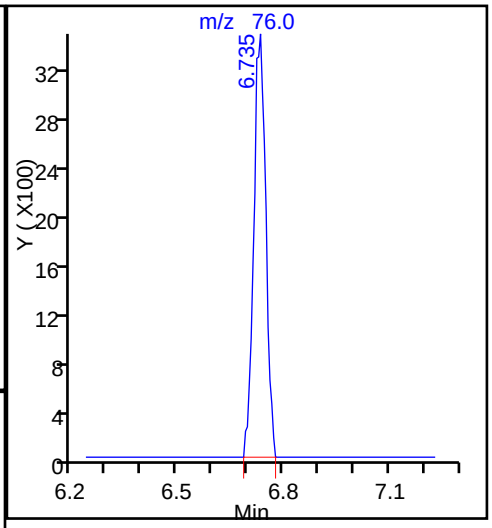
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

22 Carbon disulfide, CAS: 75-15-0





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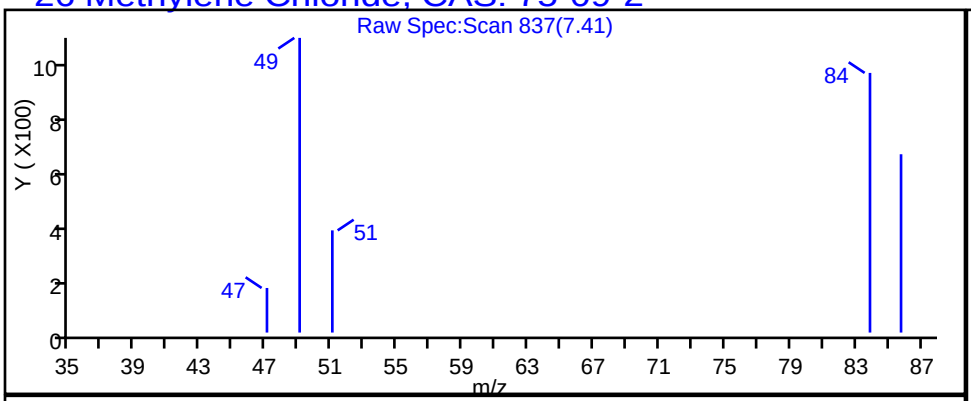
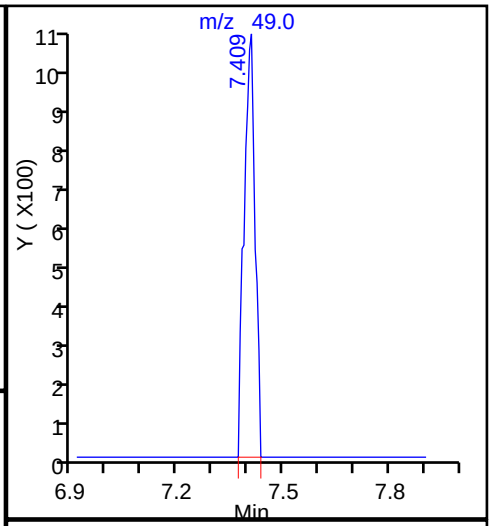
TestAmerica Burlington

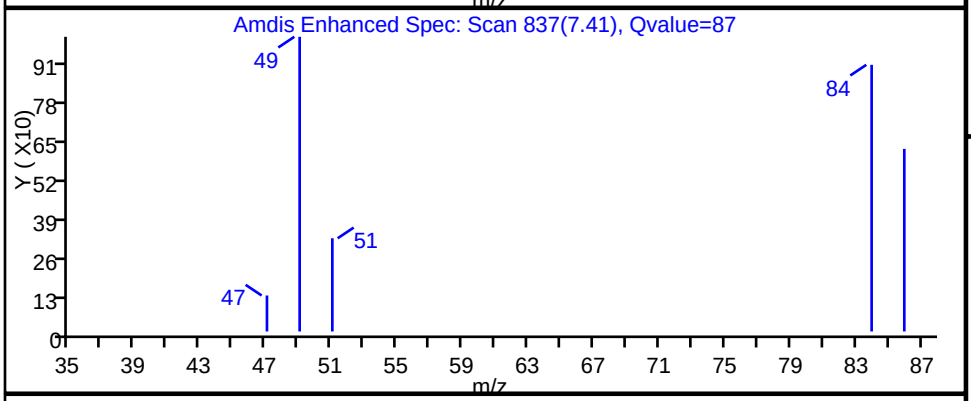
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

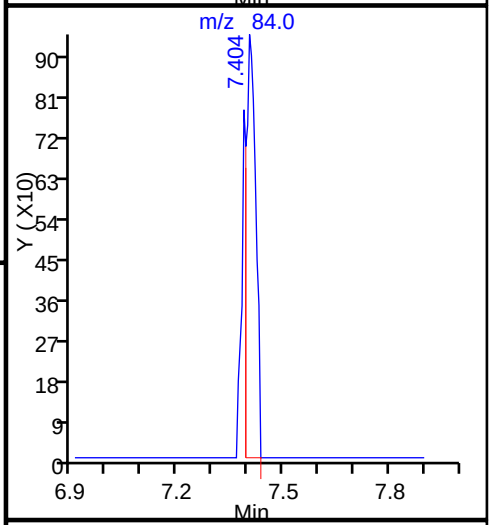
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

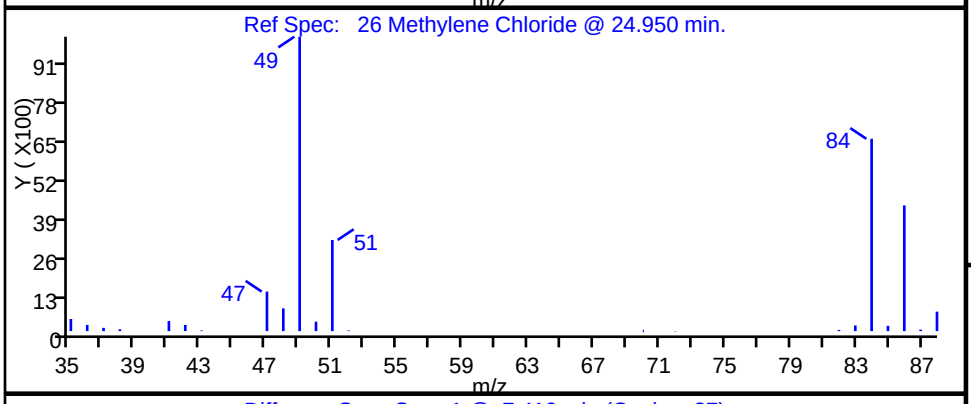
26 Methylene Chloride, CAS: 75-09-2

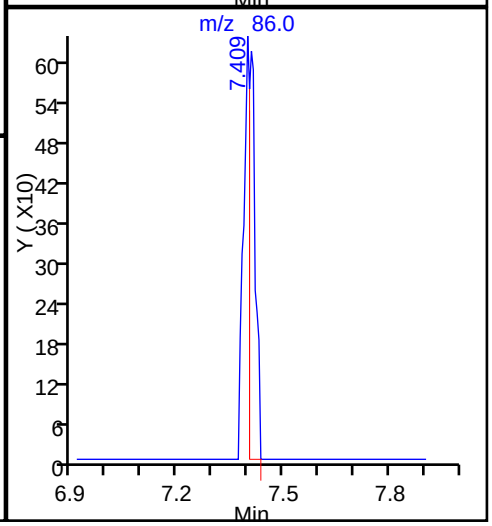


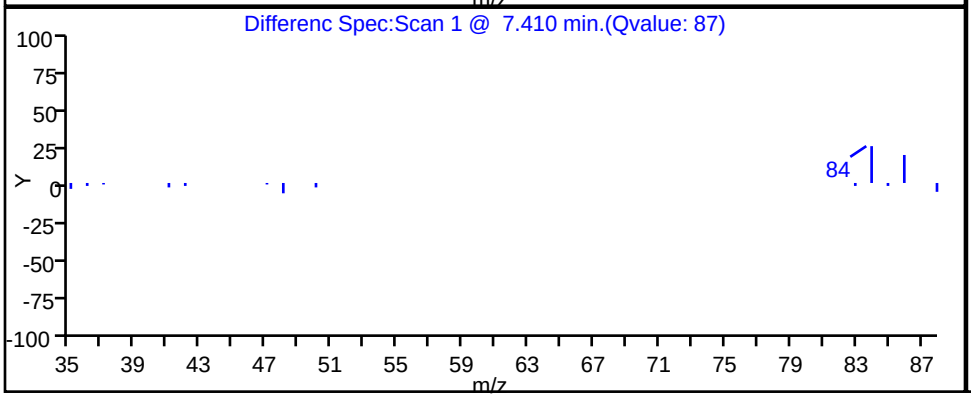










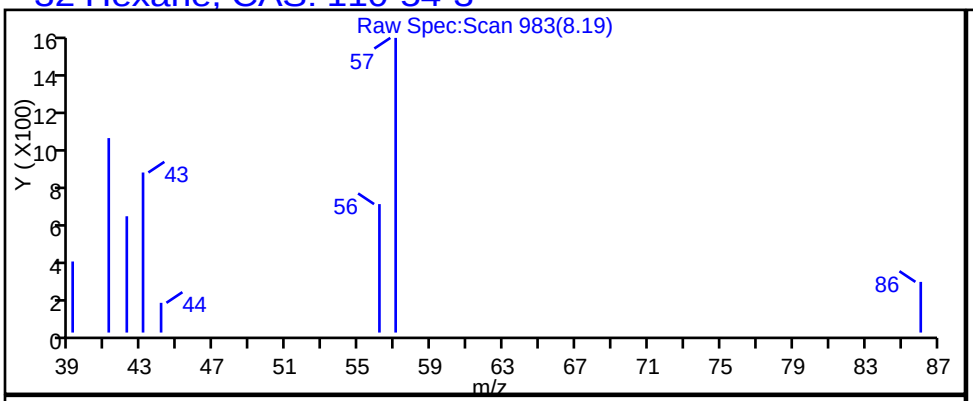


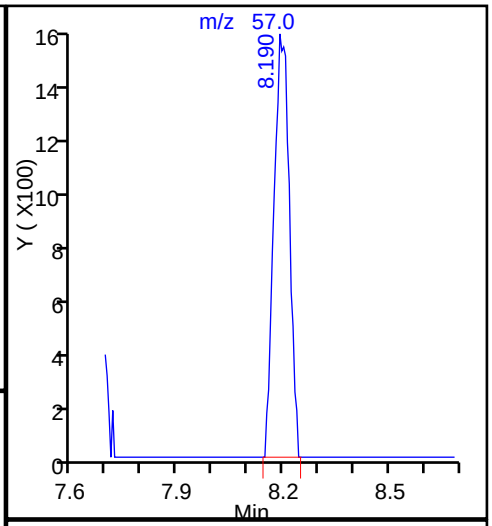
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

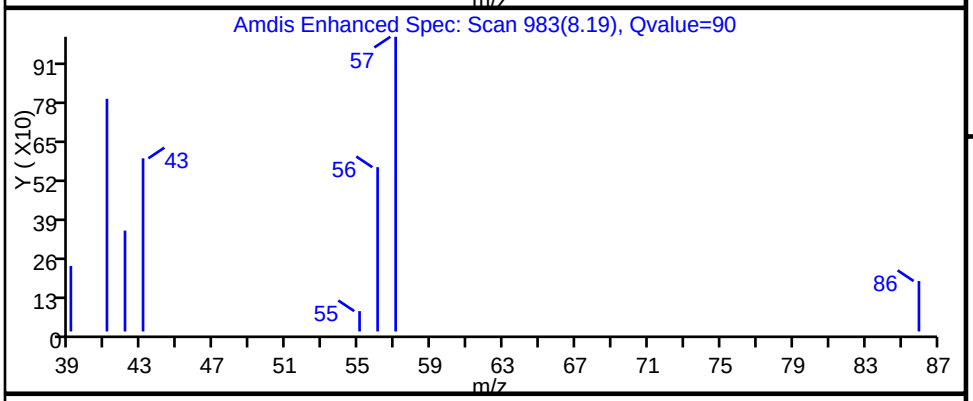
TestAmerica Burlington

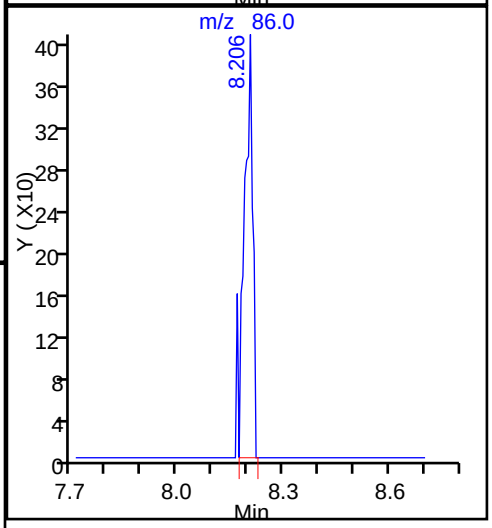
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

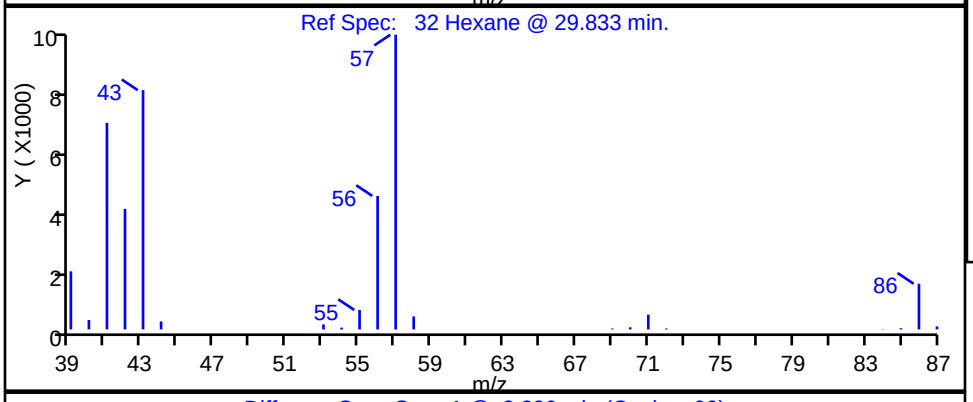
32 Hexane, CAS: 110-54-3

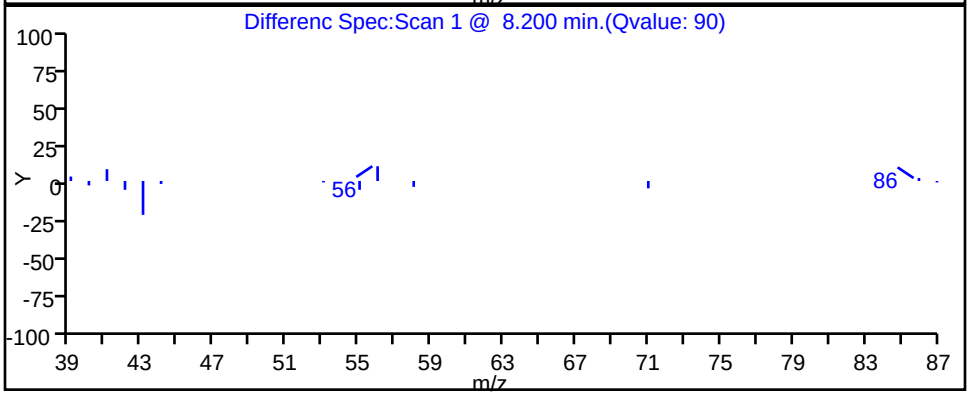












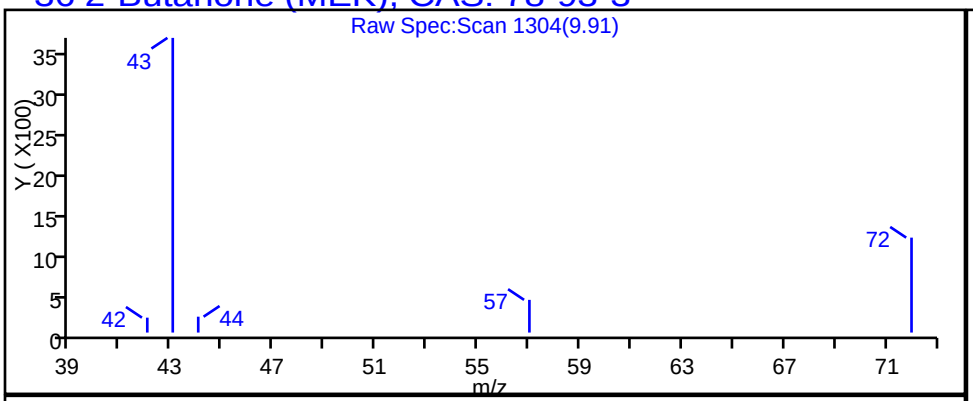
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

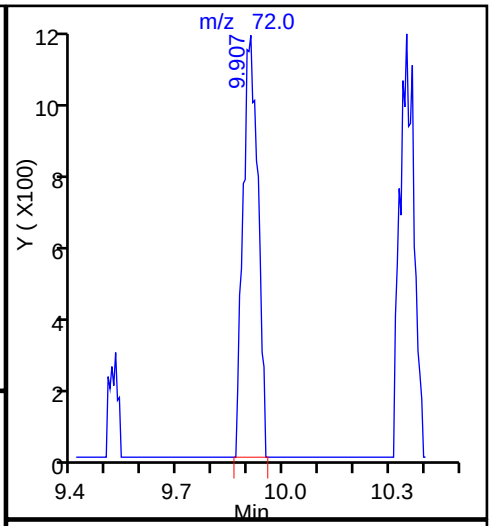
TestAmerica Burlington

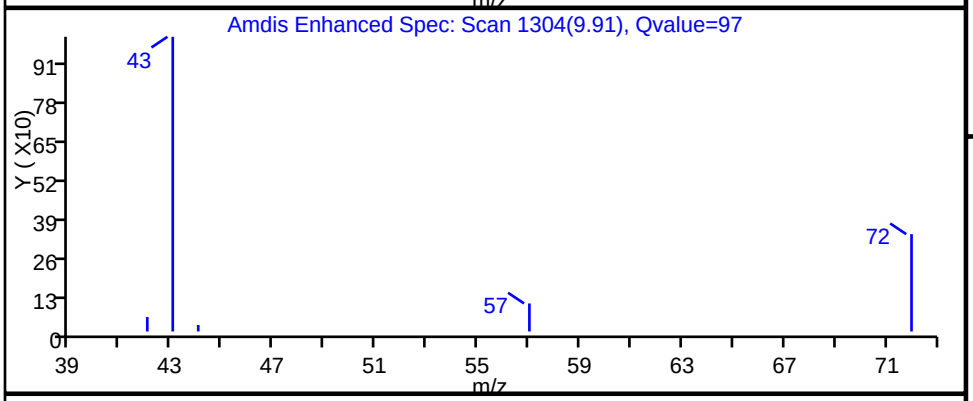
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

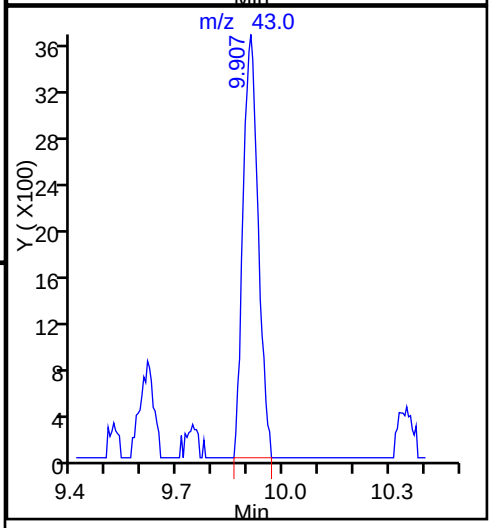
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

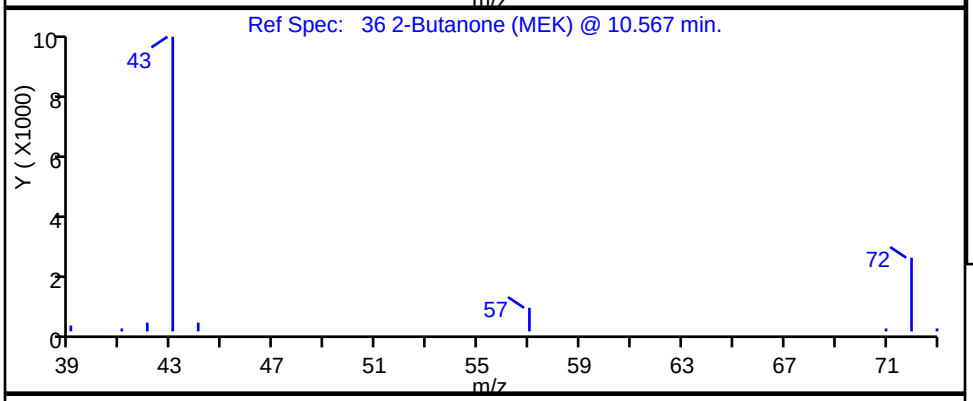
36 2-Butanone (MEK), CAS: 78-93-3

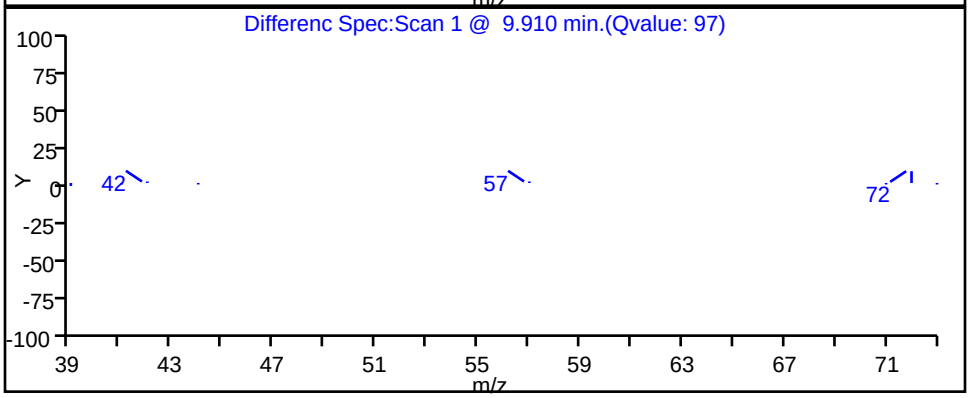










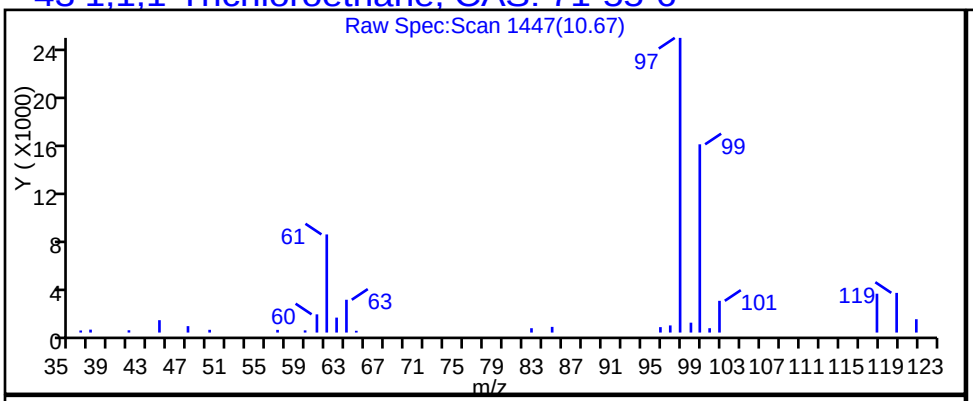


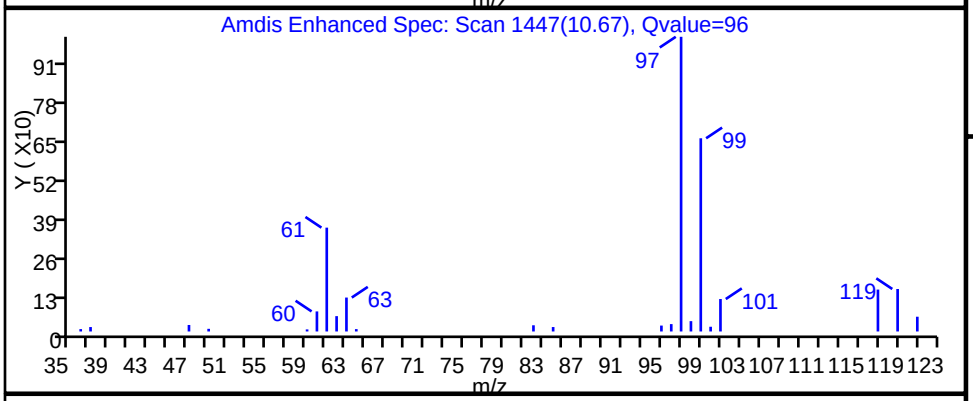
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

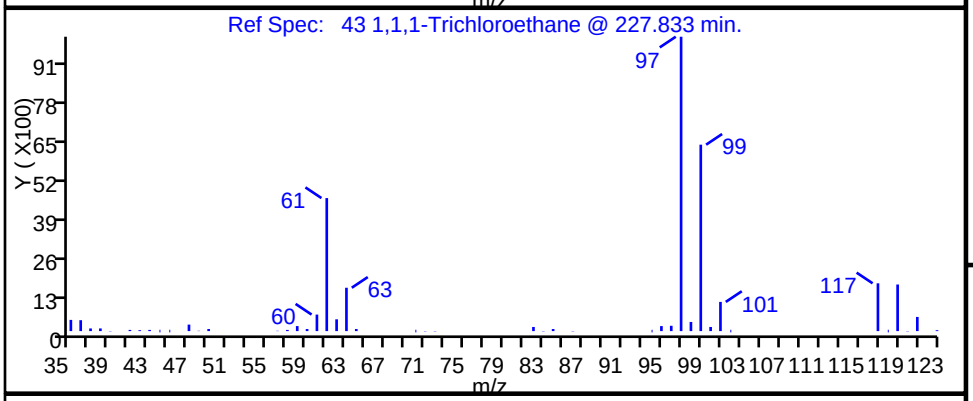
TestAmerica Burlington

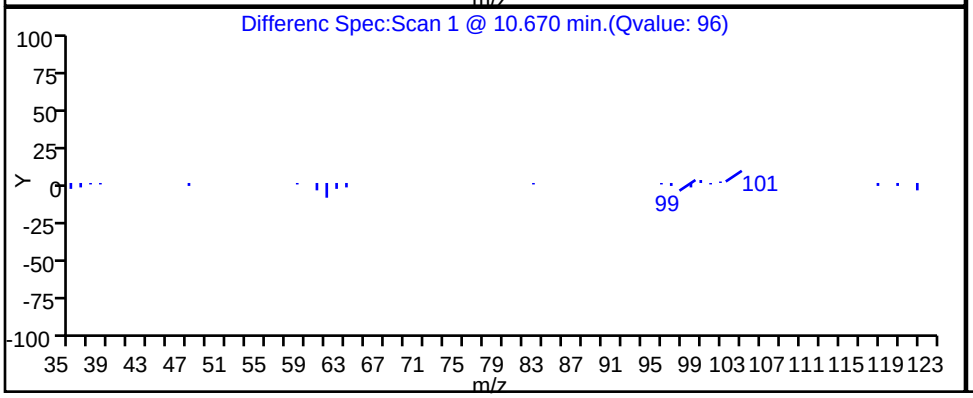
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

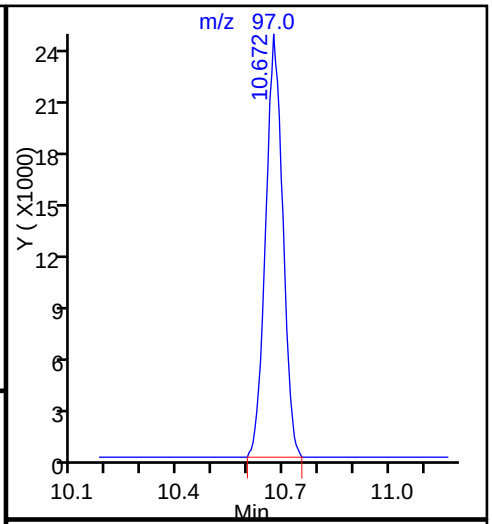
43 1,1,1-Trichloroethane, CAS: 71-55-6

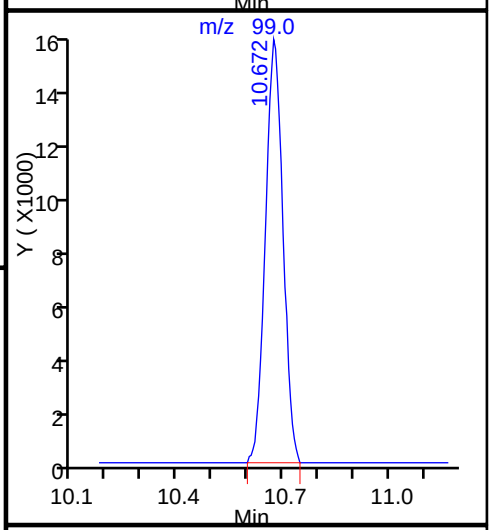


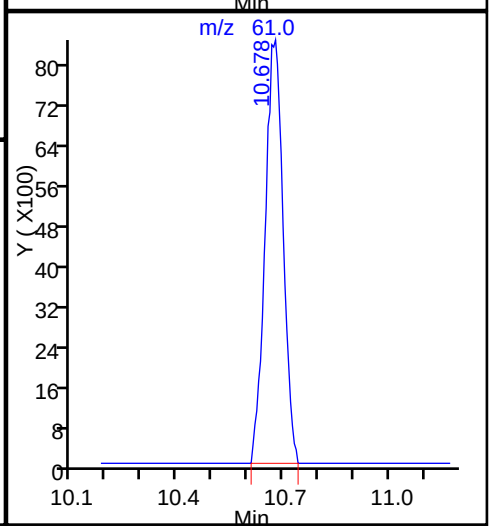










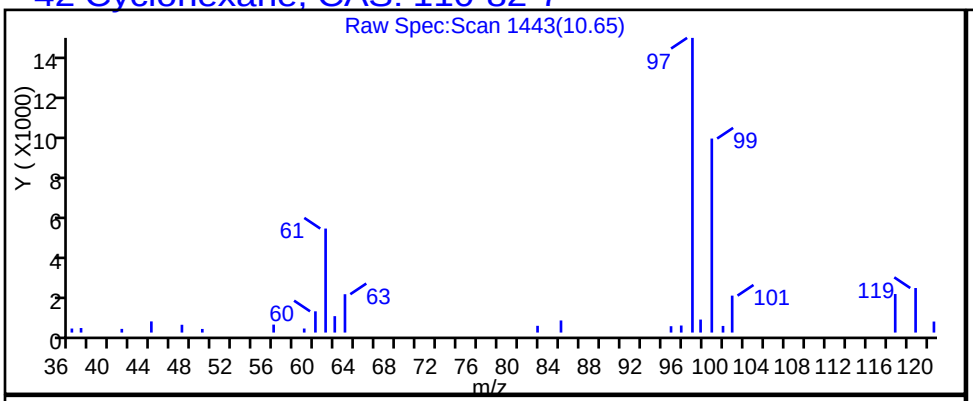


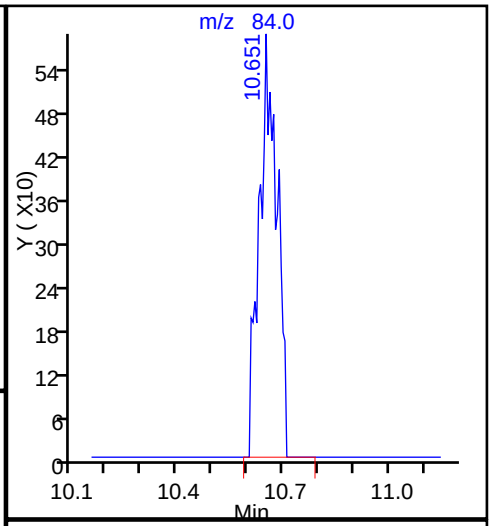
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

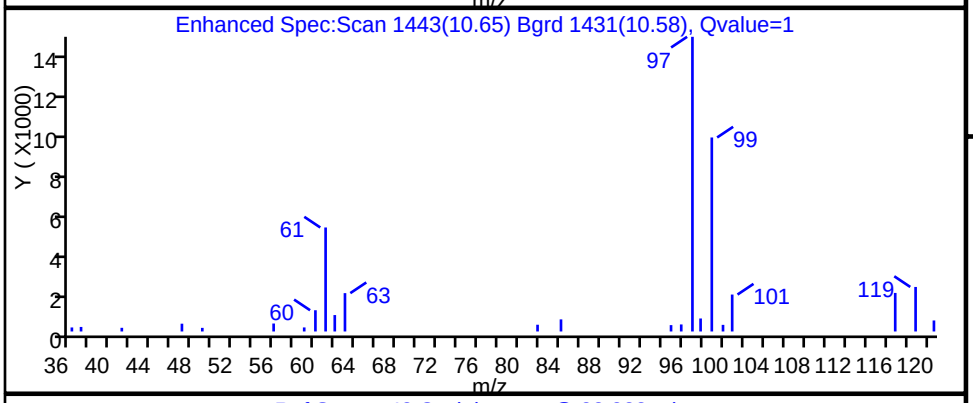
TestAmerica Burlington

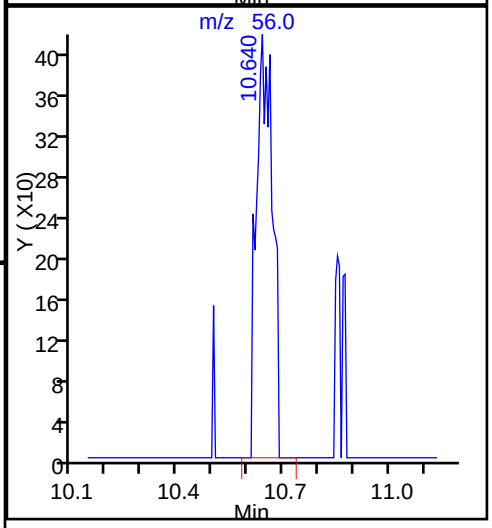
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

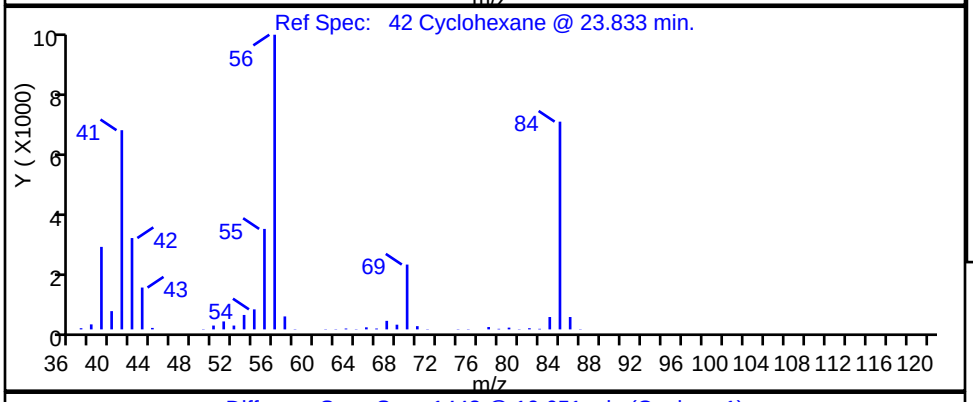
42 Cyclohexane, CAS: 110-82-7

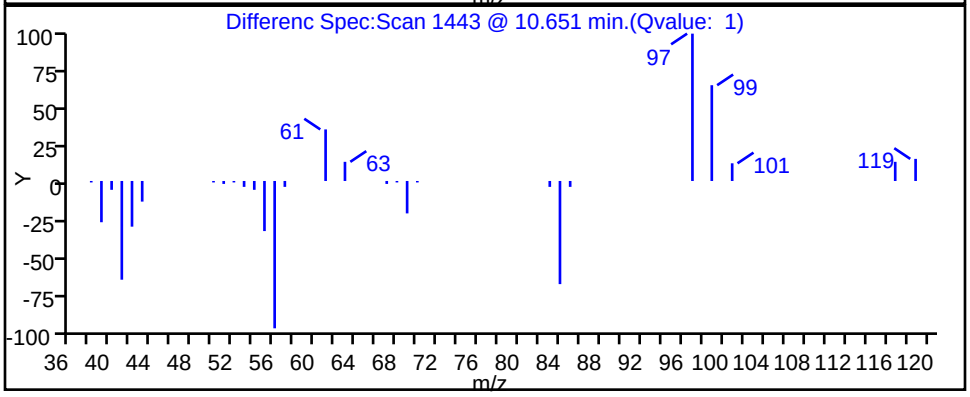












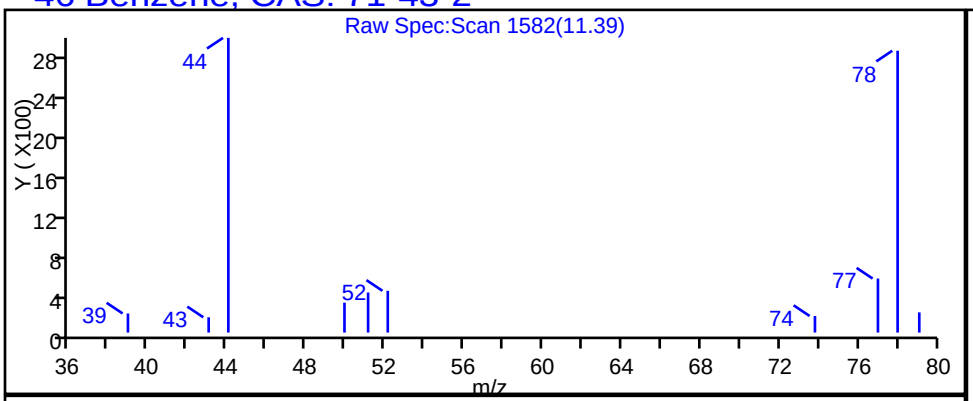
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

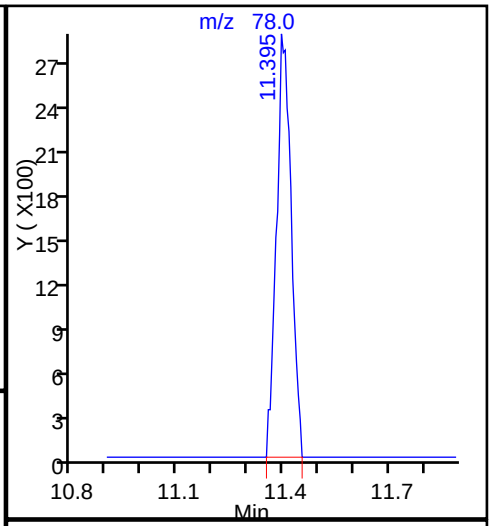
TestAmerica Burlington

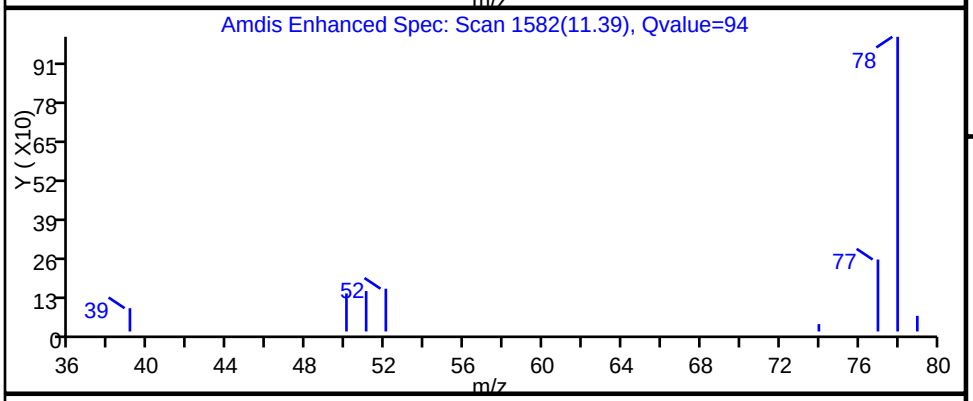
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

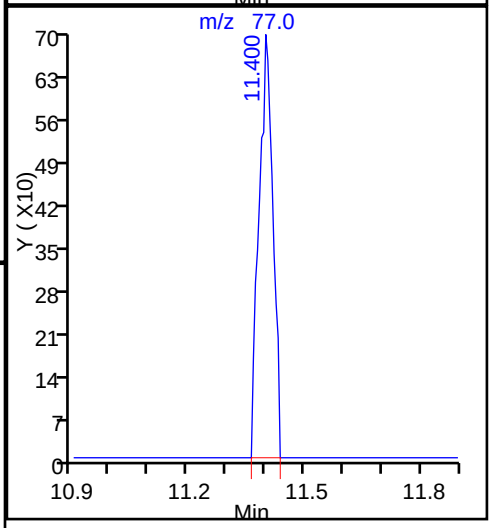
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

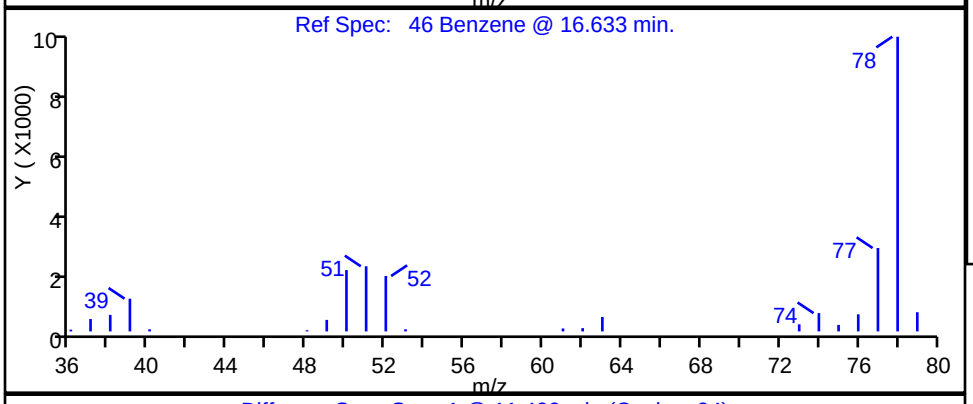
46 Benzene, CAS: 71-43-2

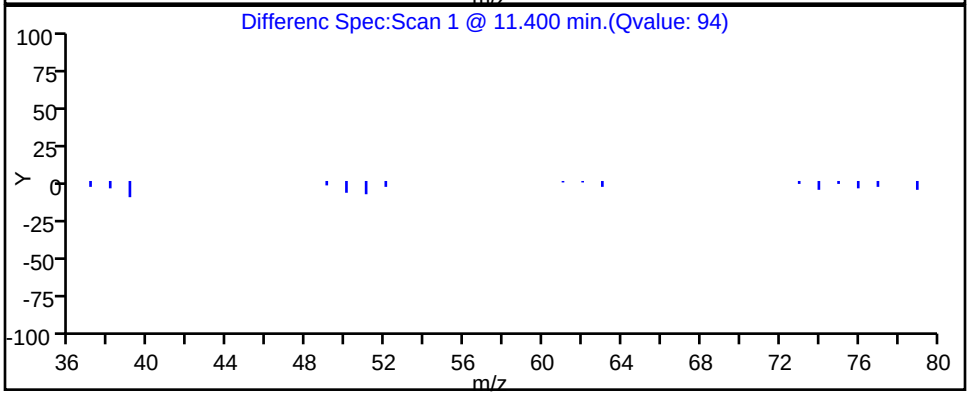










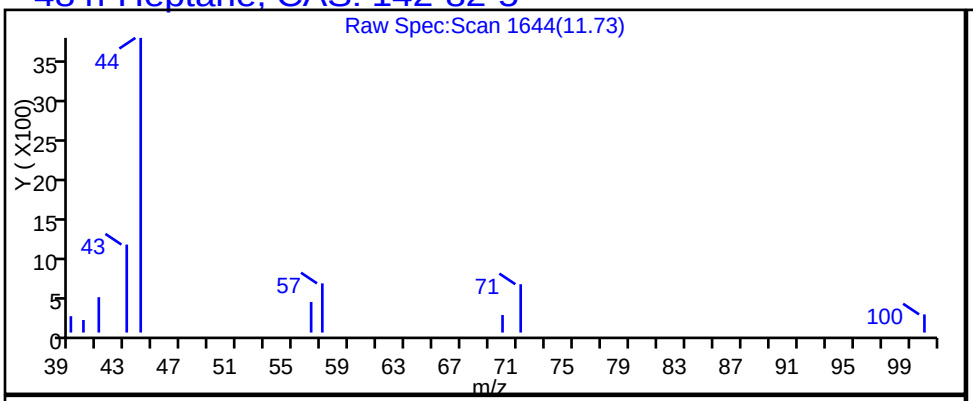


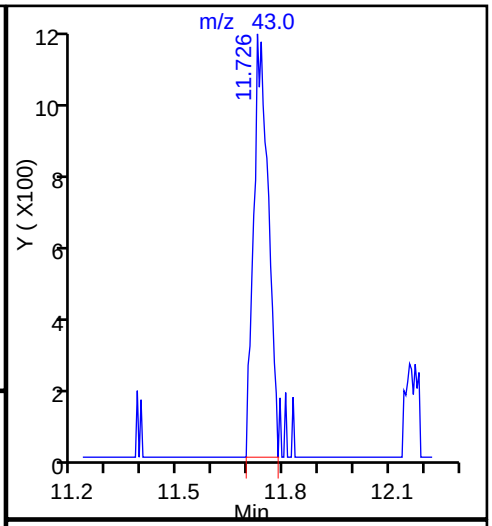
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

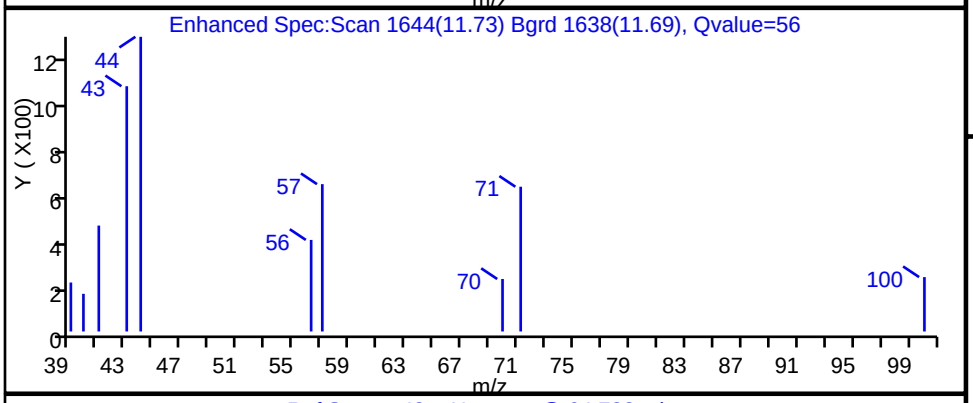
TestAmerica Burlington

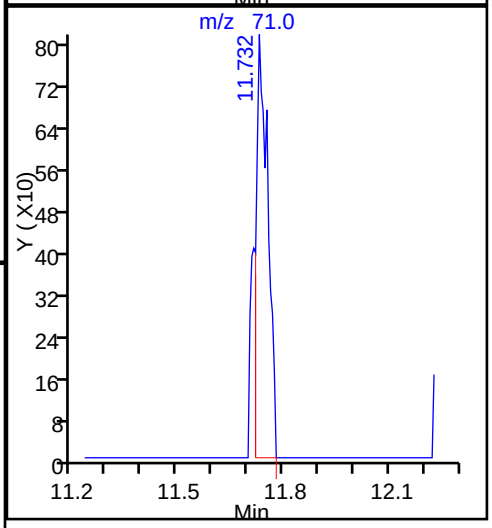
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

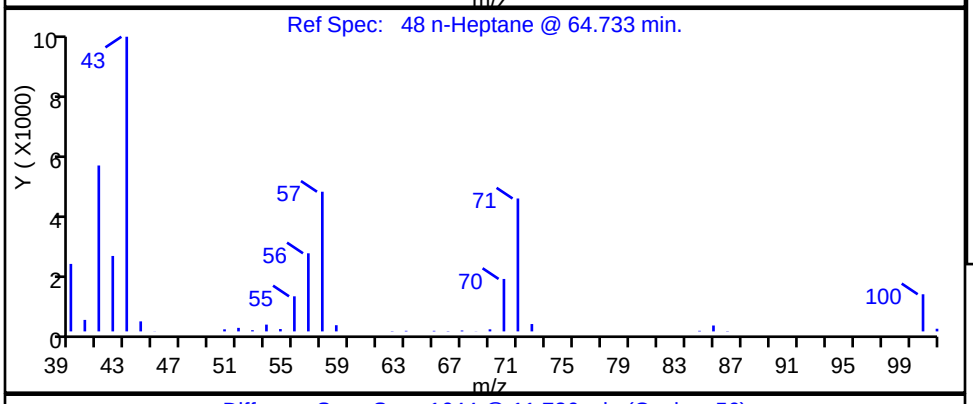
48 n-Heptane, CAS: 142-82-5

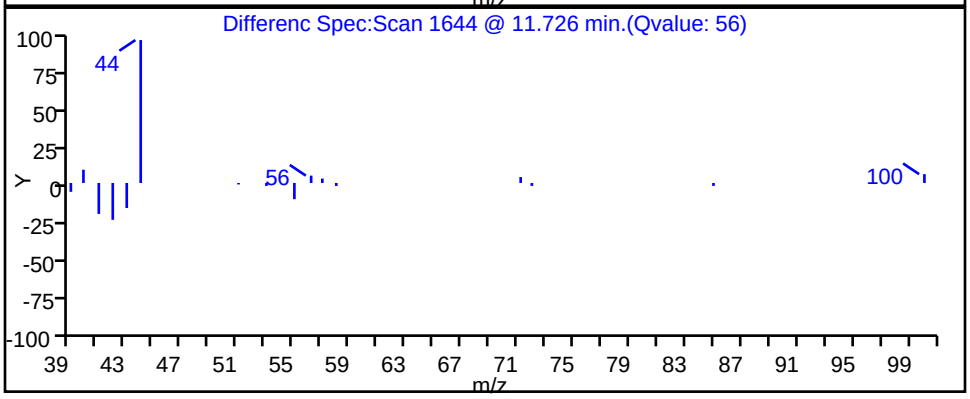












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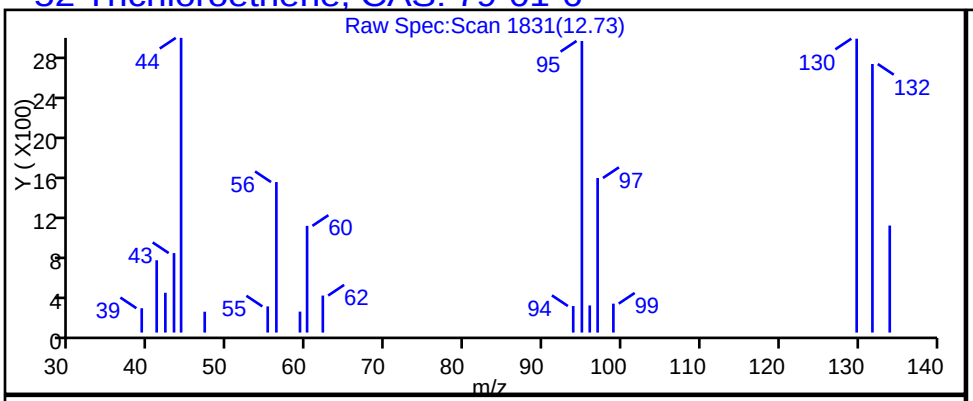
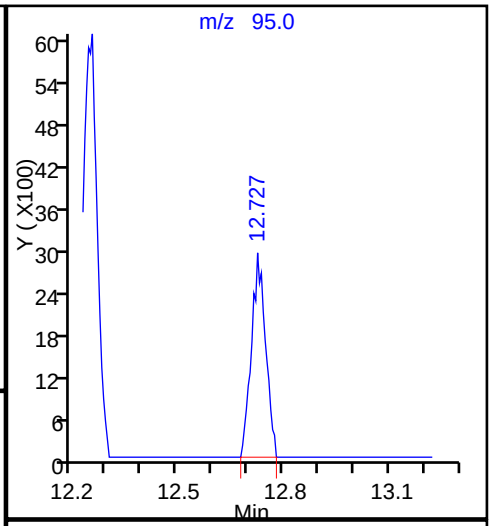
TestAmerica Burlington

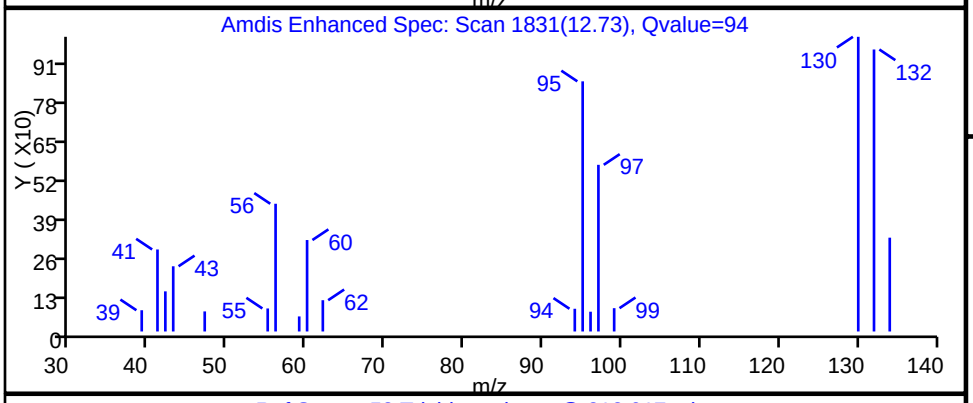
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

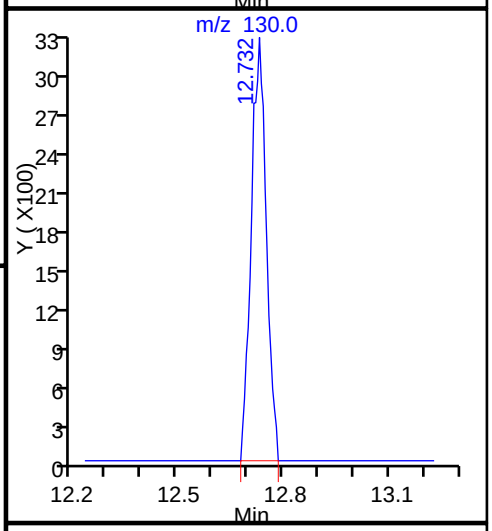
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

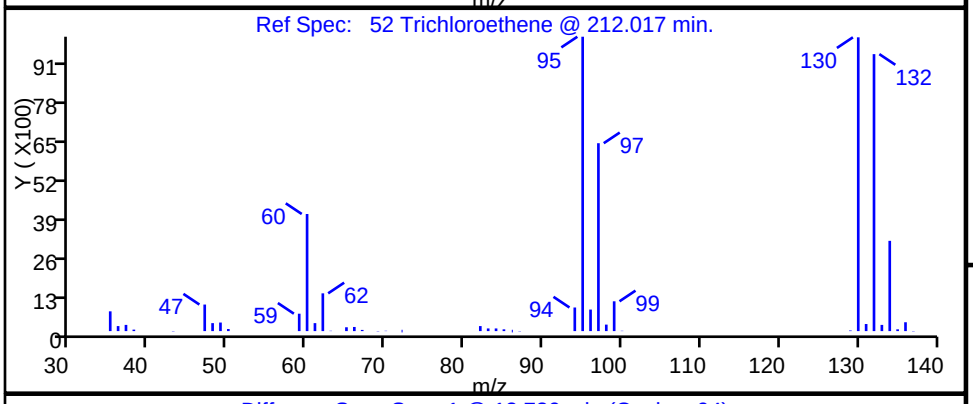
52 Trichloroethene, CAS: 79-01-6

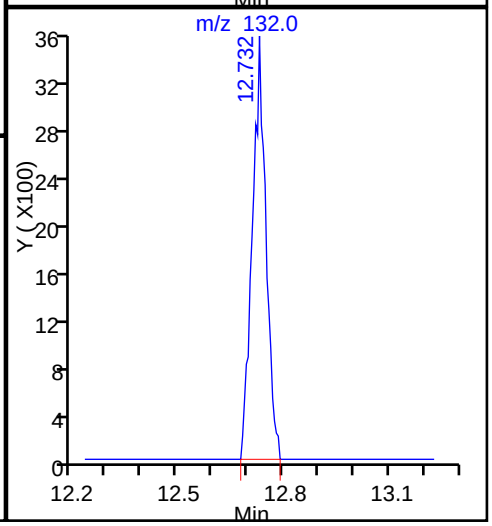


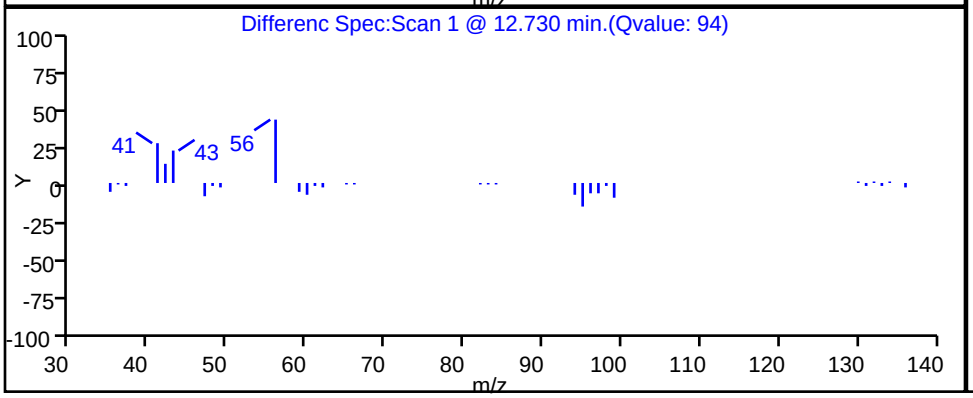










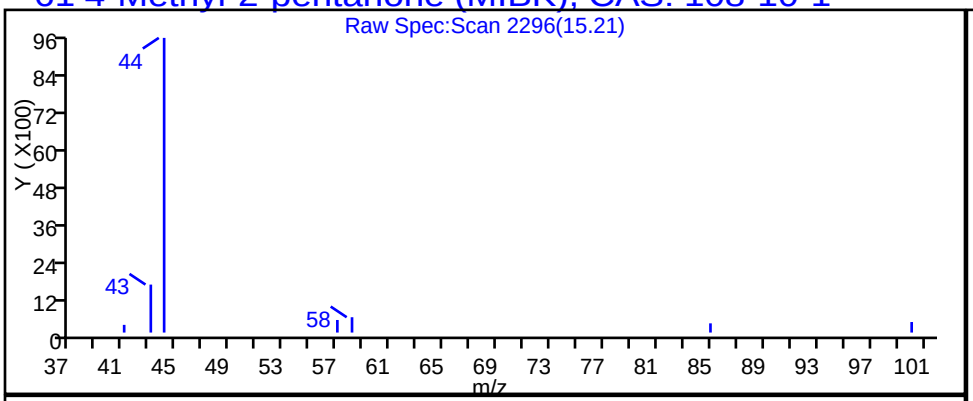


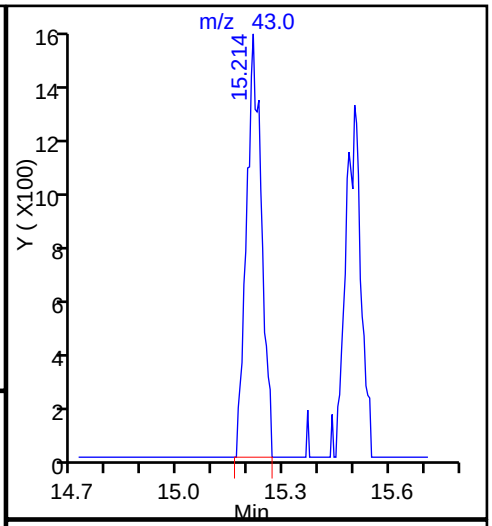
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

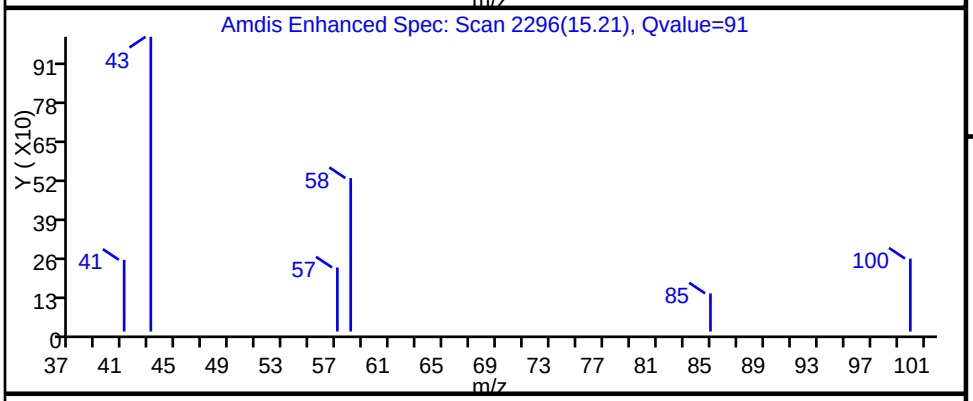
TestAmerica Burlington

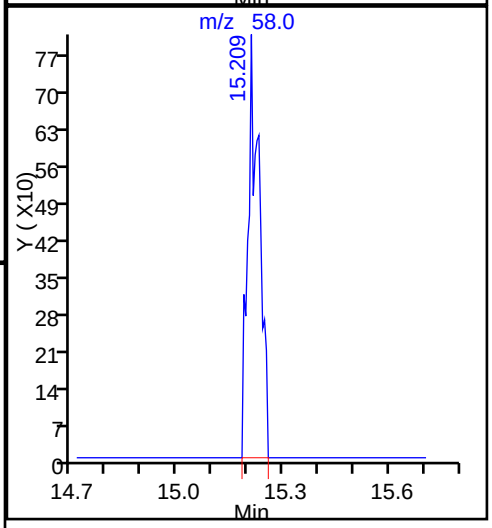
Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

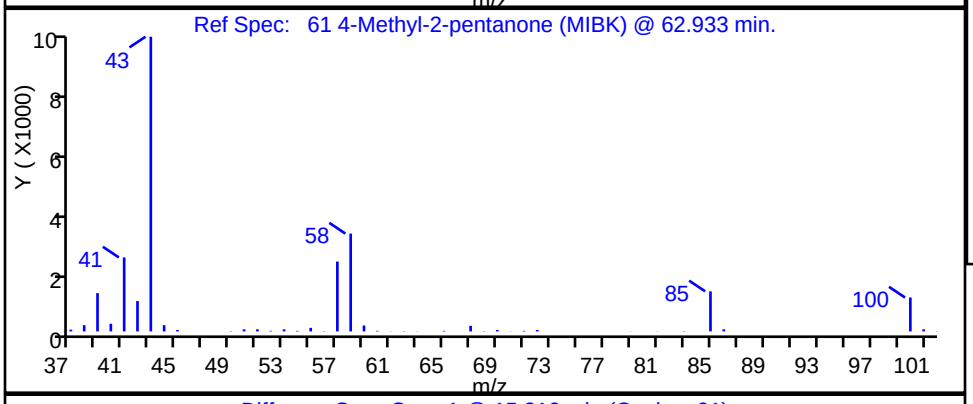
61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

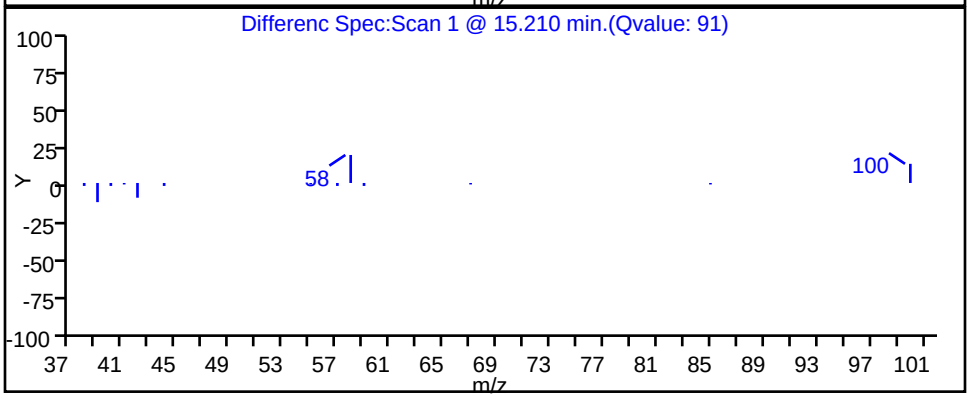












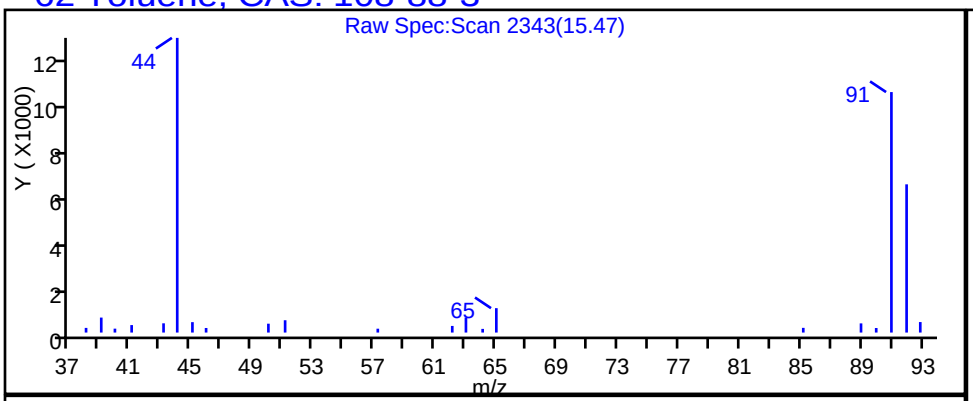
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

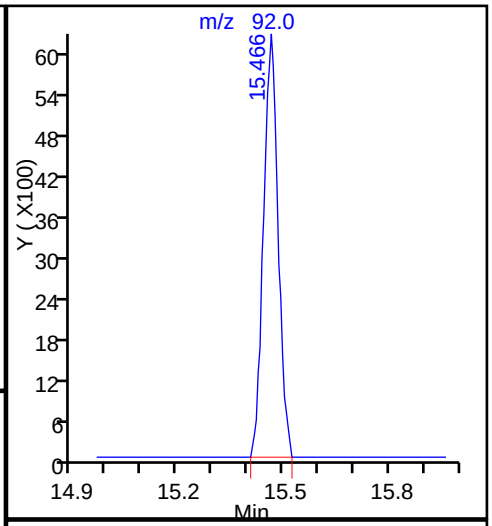
TestAmerica Burlington

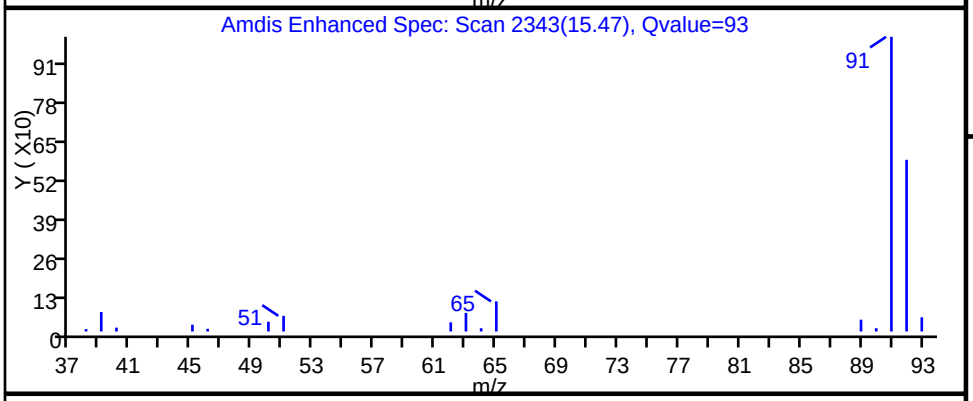
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

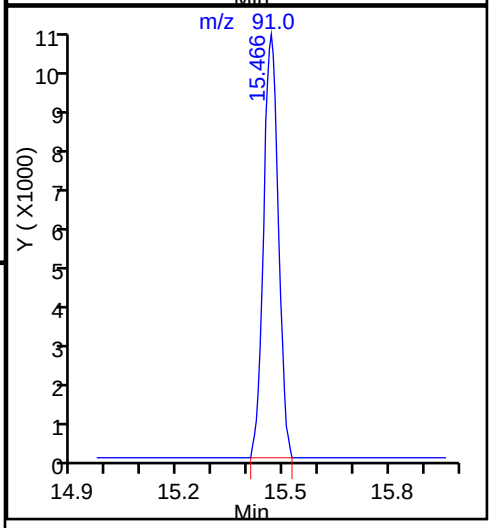
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

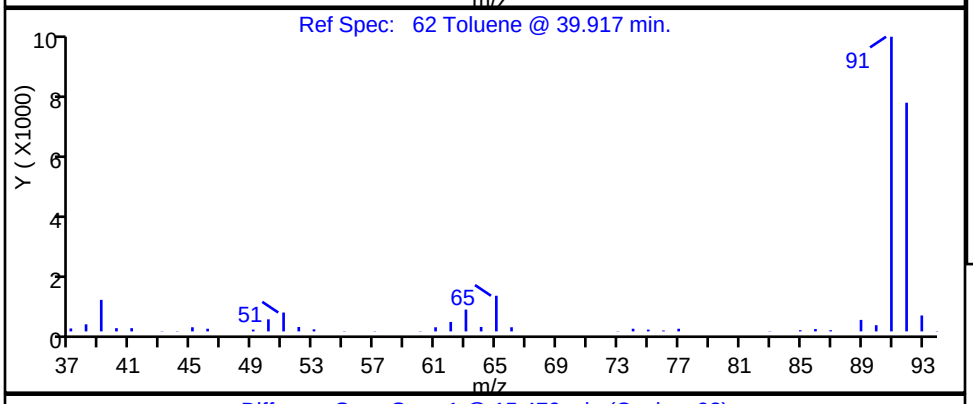
62 Toluene, CAS: 108-88-3

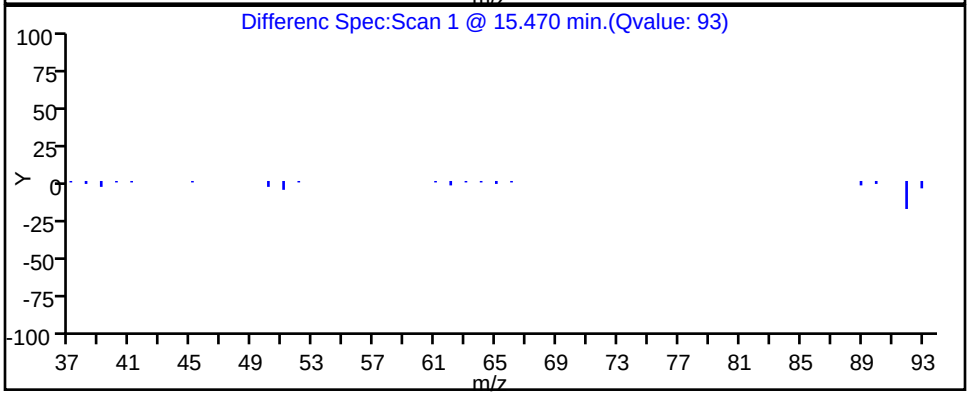












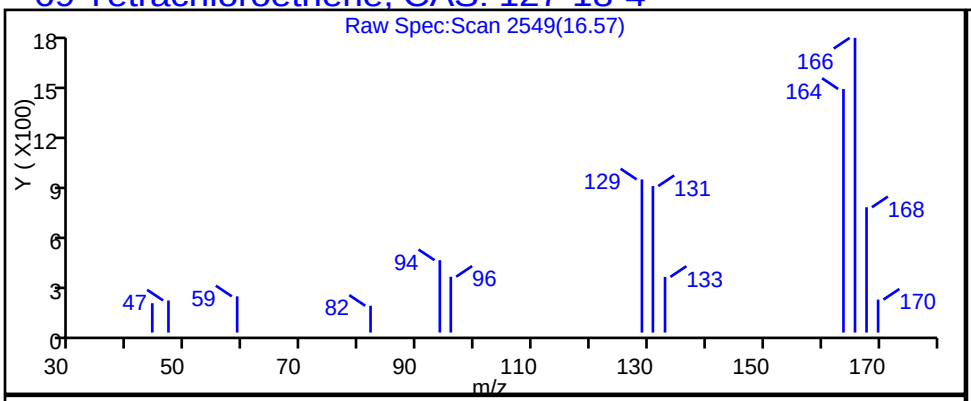
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

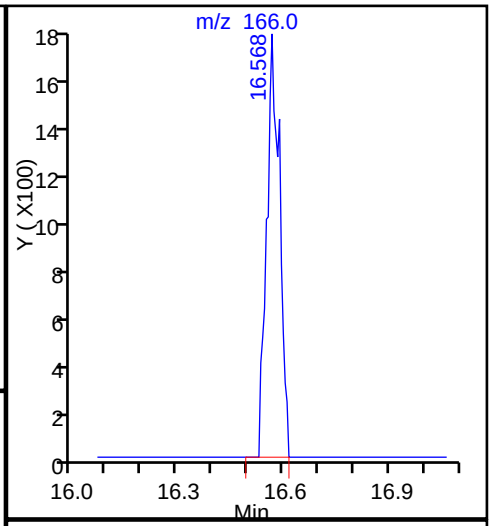
TestAmerica Burlington

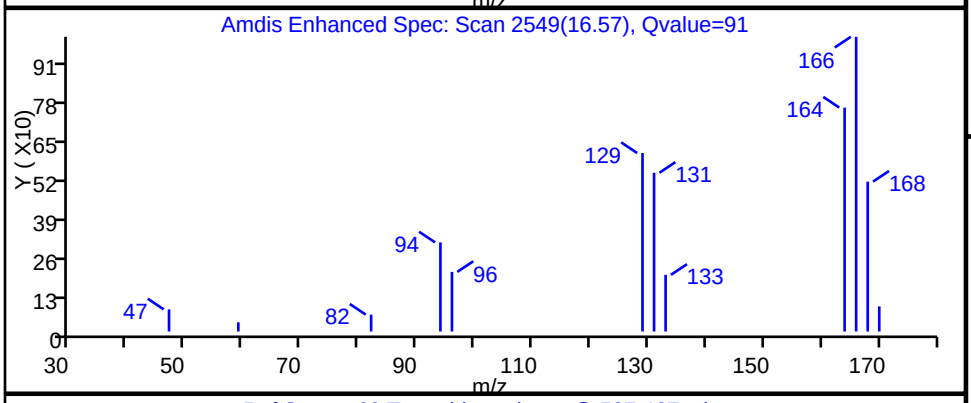
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

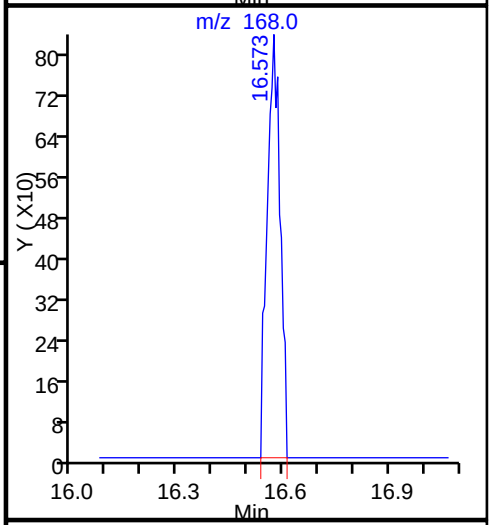
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

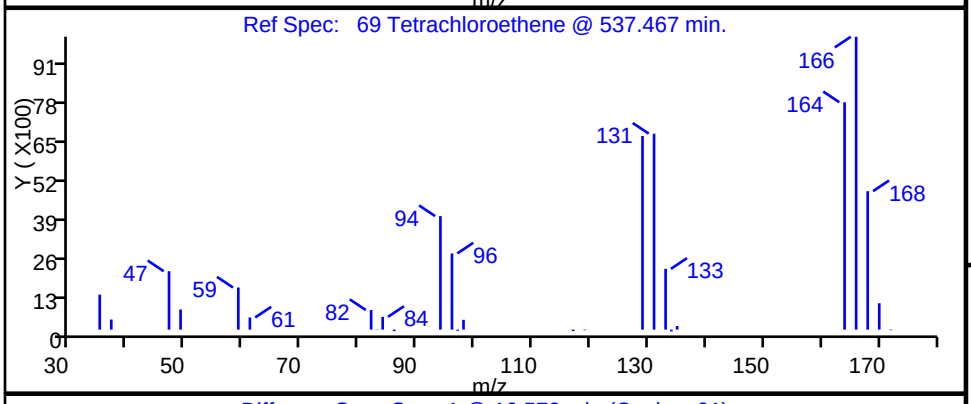
69 Tetrachloroethene, CAS: 127-18-4

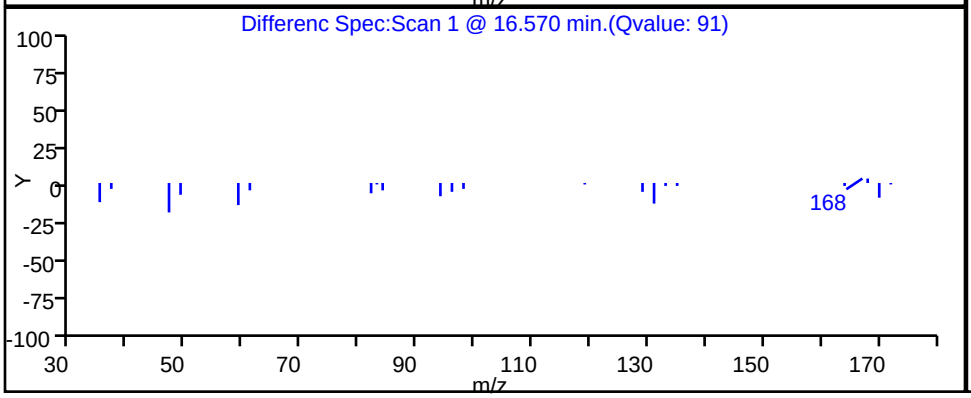


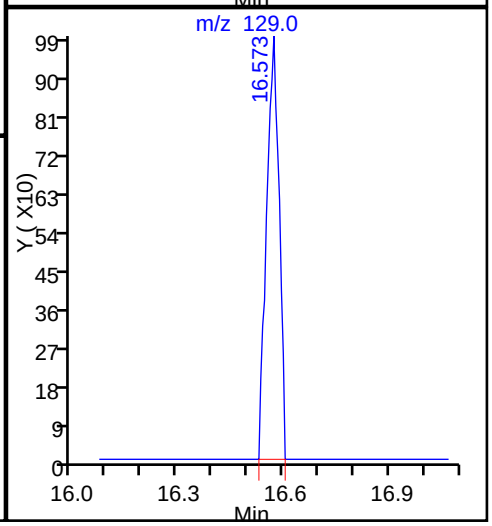












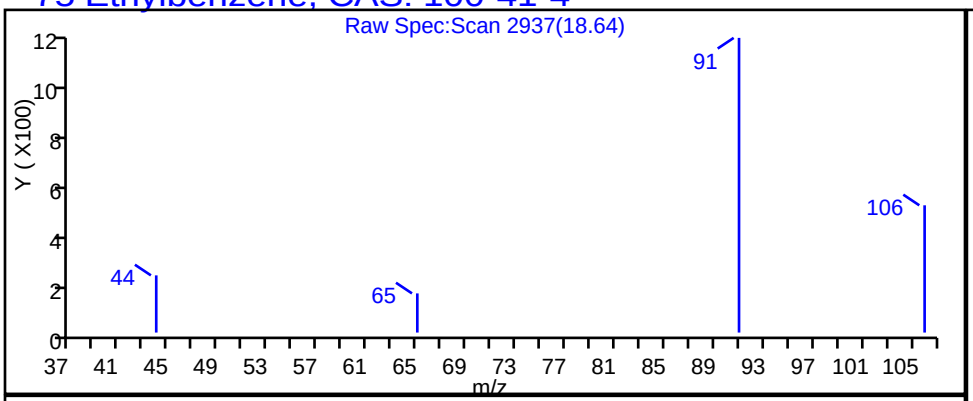
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

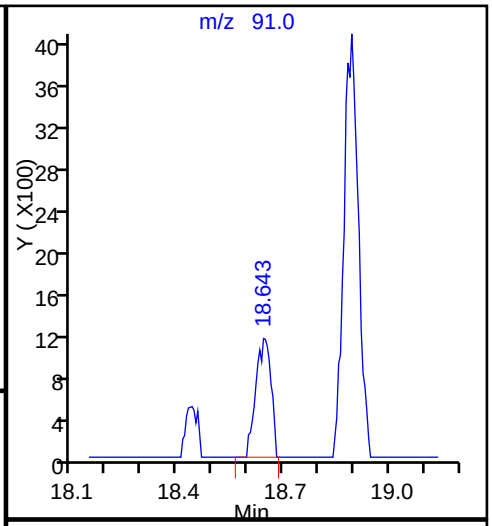
TestAmerica Burlington

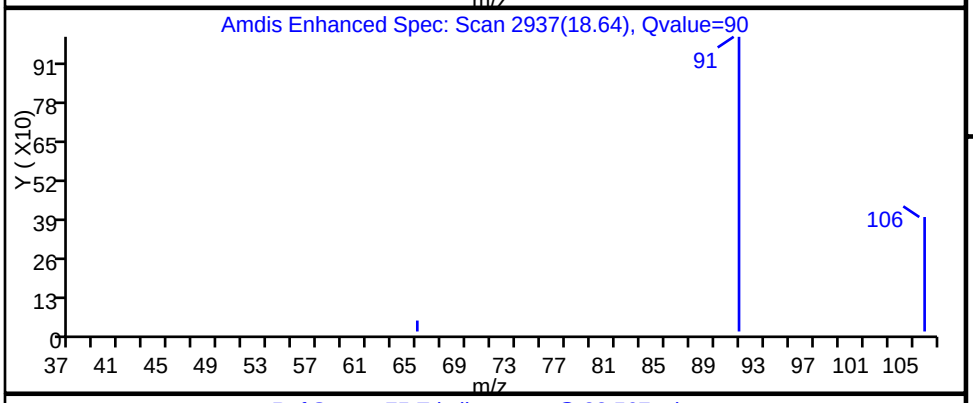
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

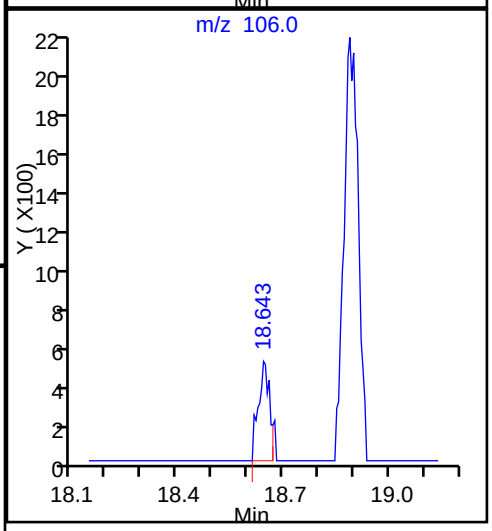
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

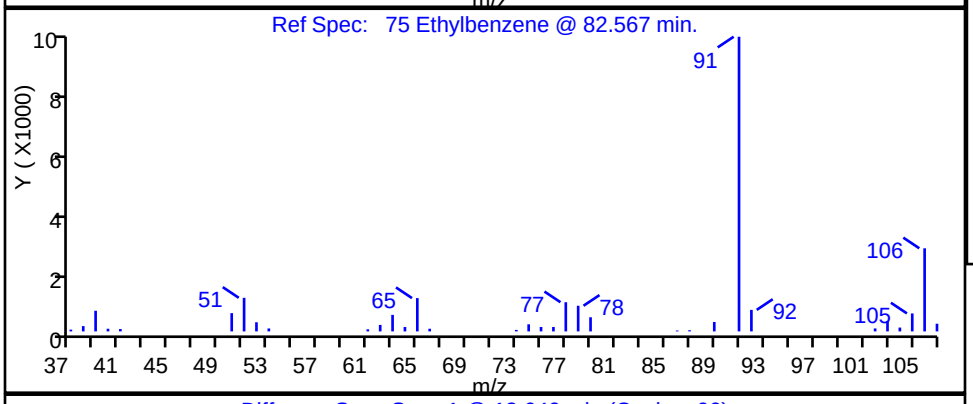
75 Ethylbenzene, CAS: 100-41-4

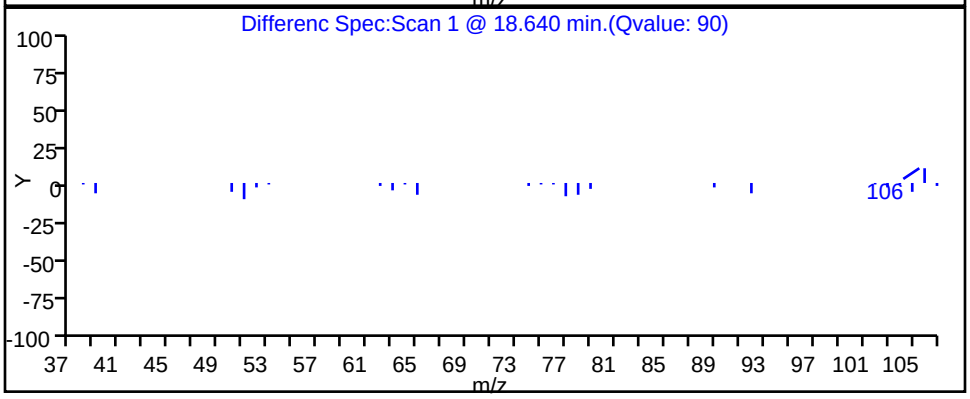












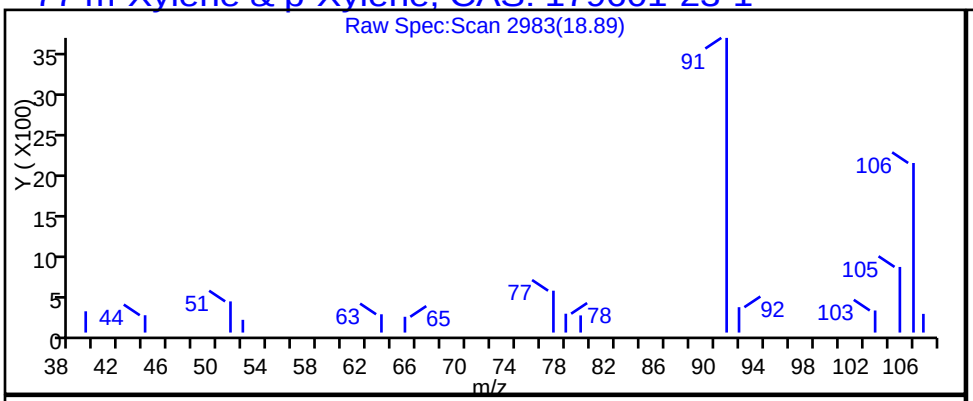
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

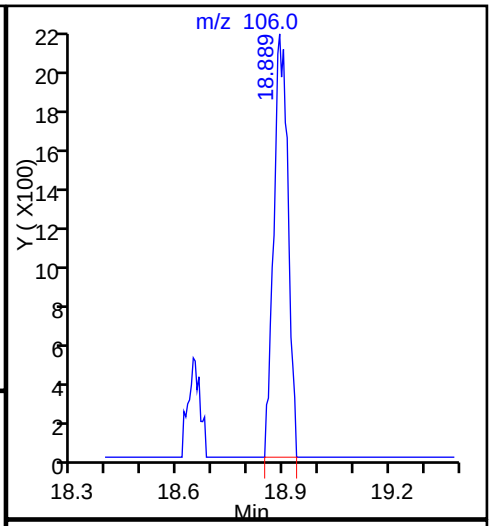
TestAmerica Burlington

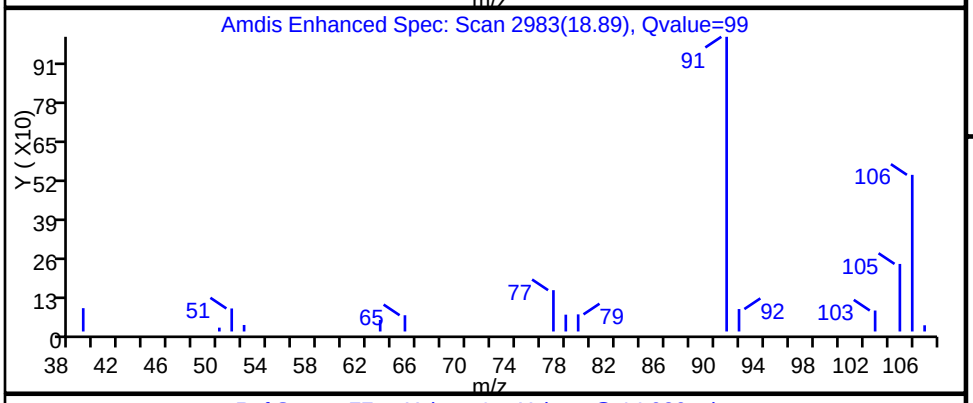
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

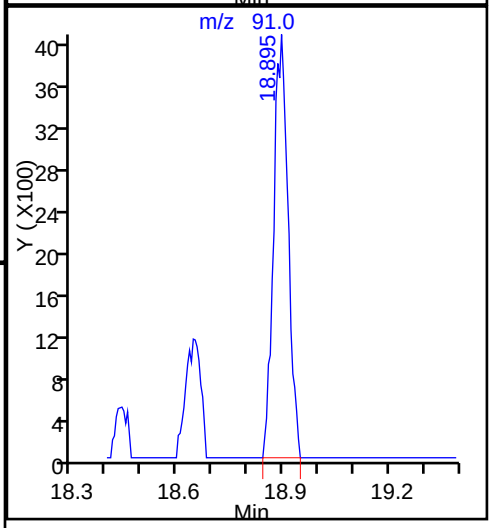
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

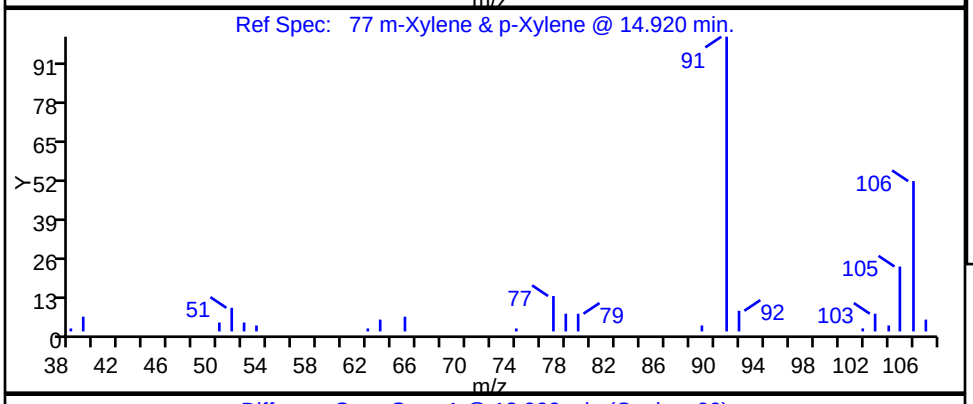
77 m-Xylene & p-Xylene, CAS: 179601-23-1

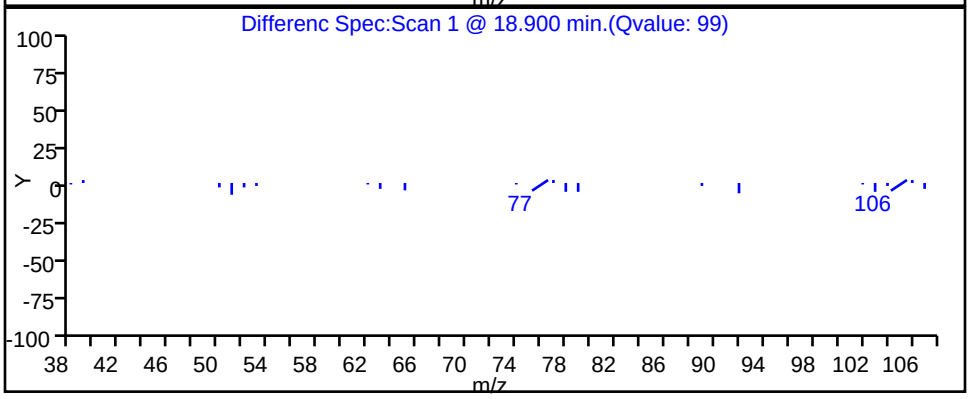












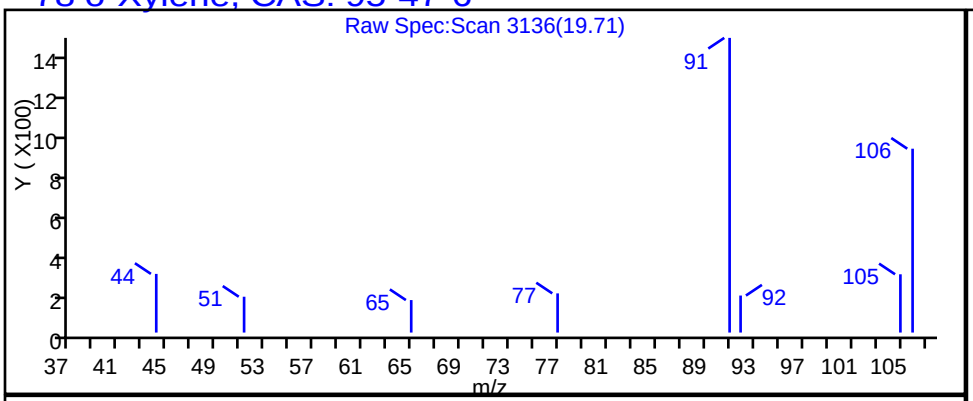
Report Date: 06-Oct-2015 11:52:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

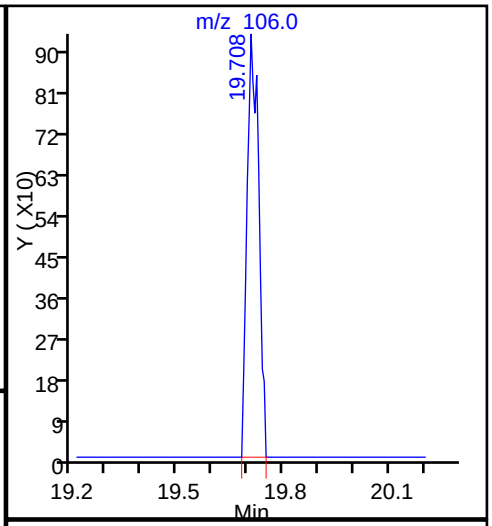
TestAmerica Burlington

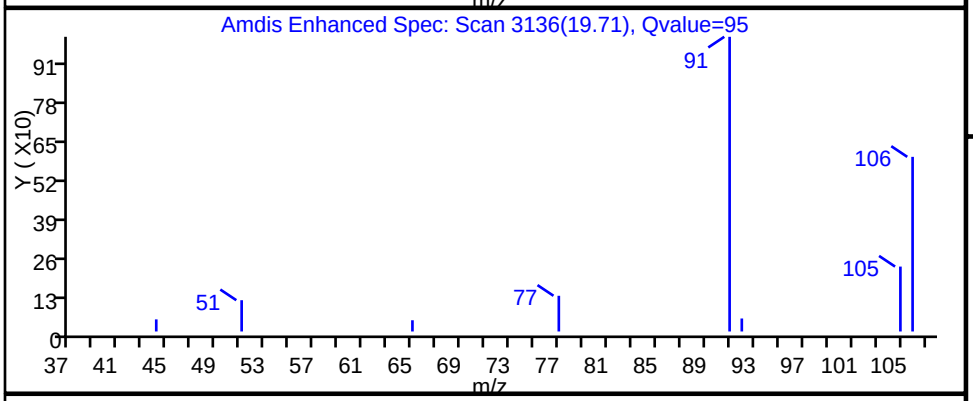
Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D

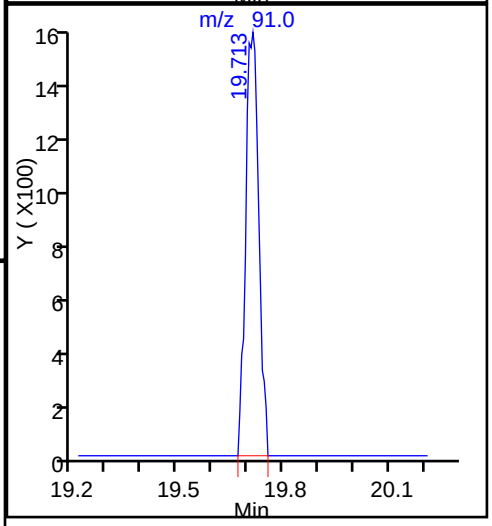
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

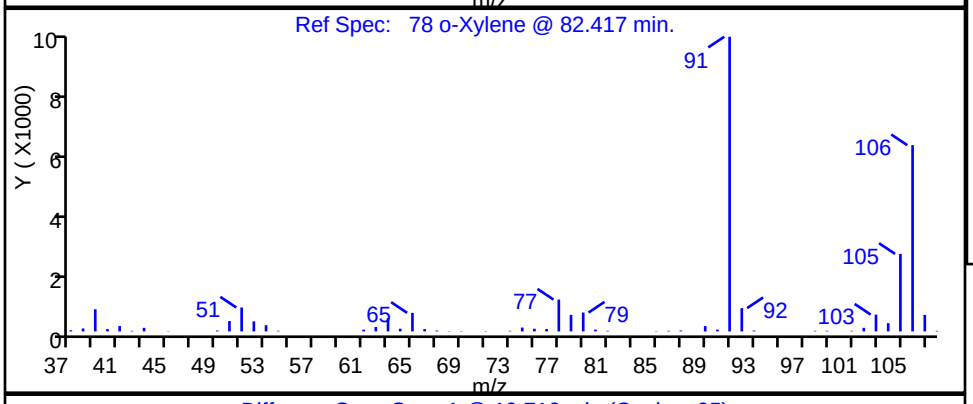
78 o-Xylene, CAS: 95-47-6

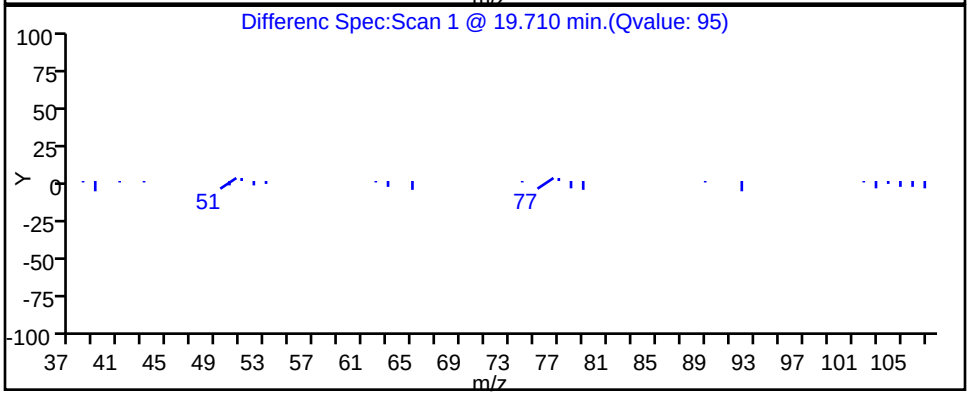












Manual Integration/User Assign Peak Report

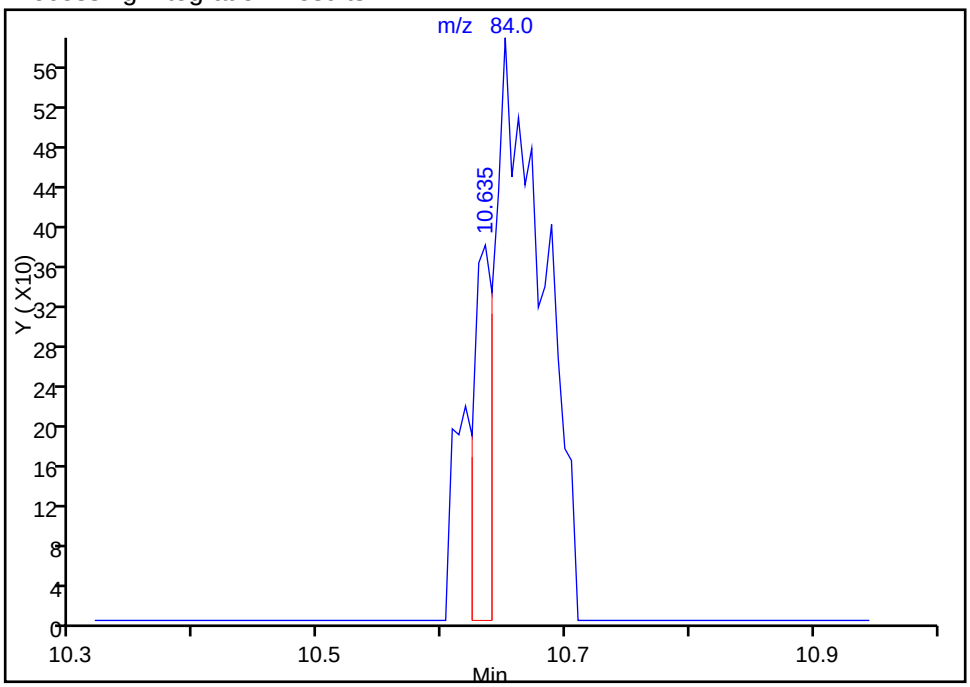
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

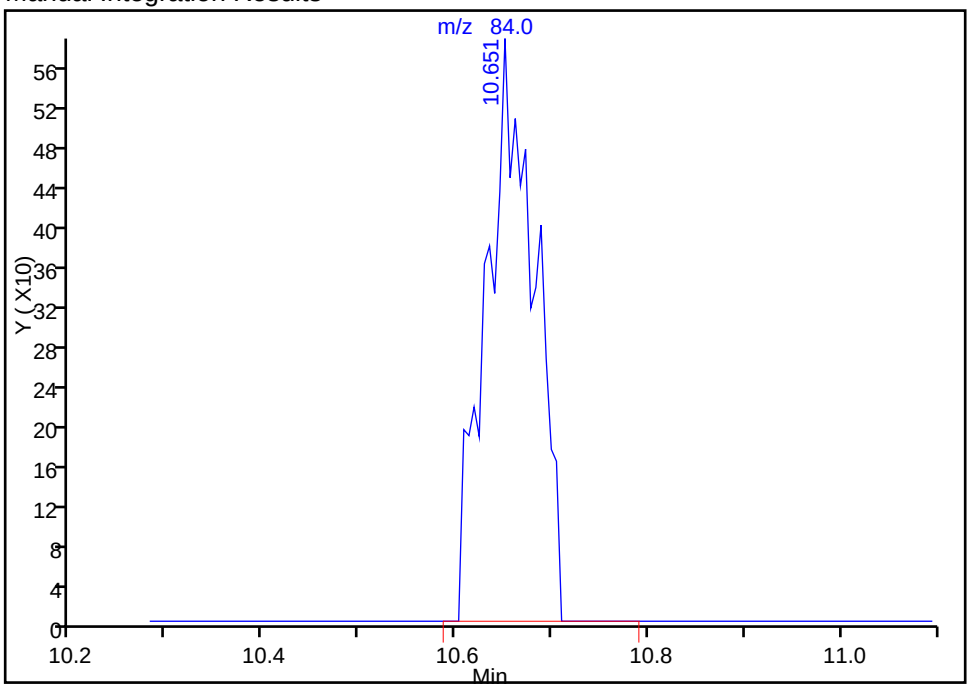
Processing Integration Results

RT: 10.63
Area: 405
Amount: 0.022033
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 2061
Amount: 0.112121
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:51:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

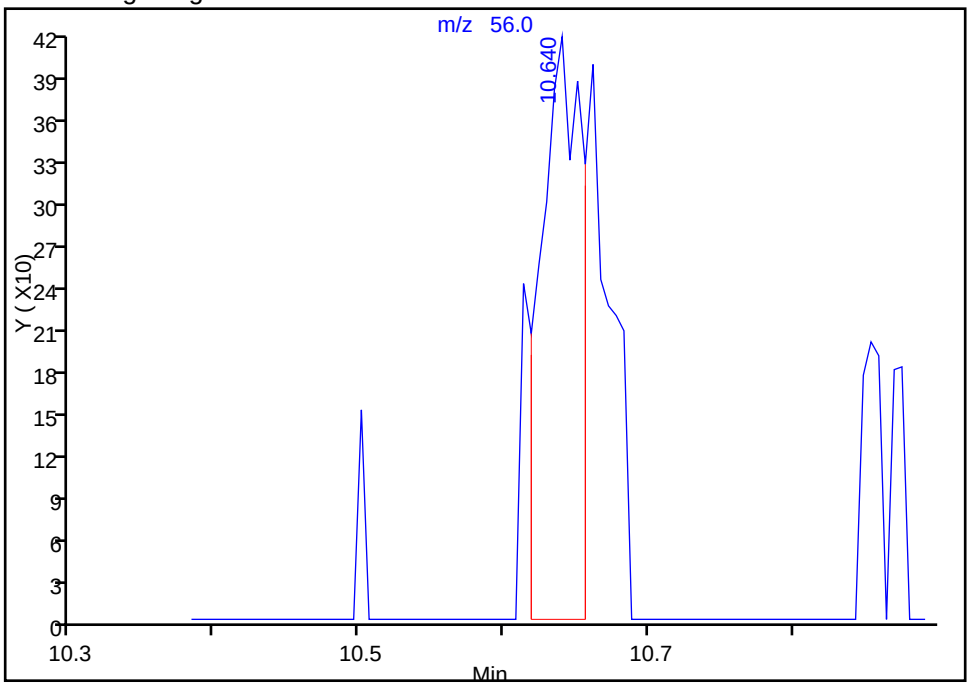
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Cyclohexane, CAS: 110-82-7

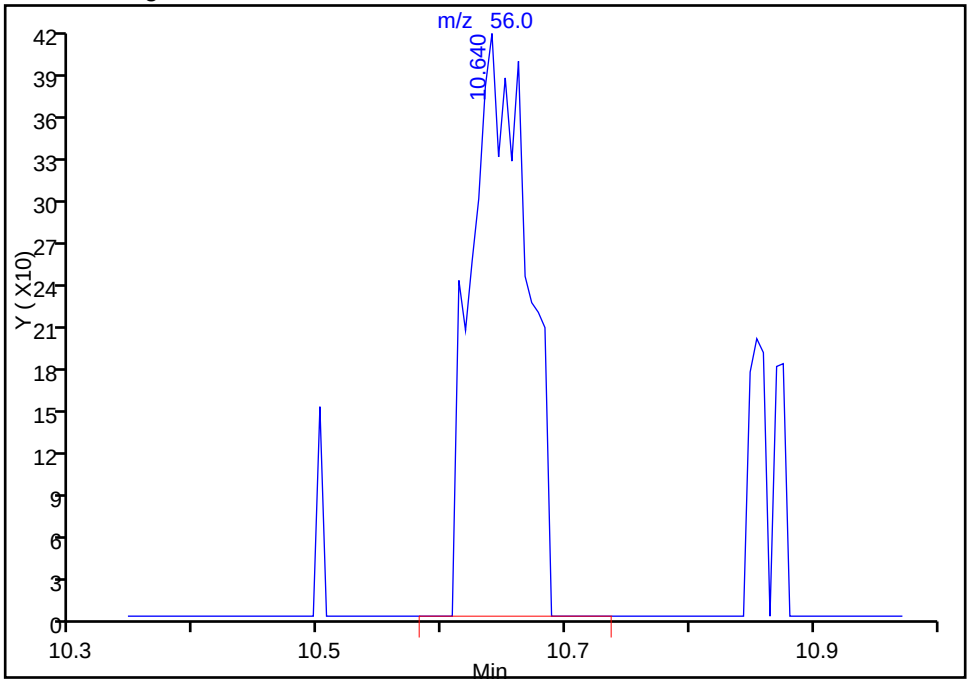
Processing Integration Results

RT: 10.64
Area: 838
Amount: 0.022033
Amount Units: ppb v/v



Manual Integration Results

RT: 10.64
Area: 1333
Amount: 0.112121
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:51:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

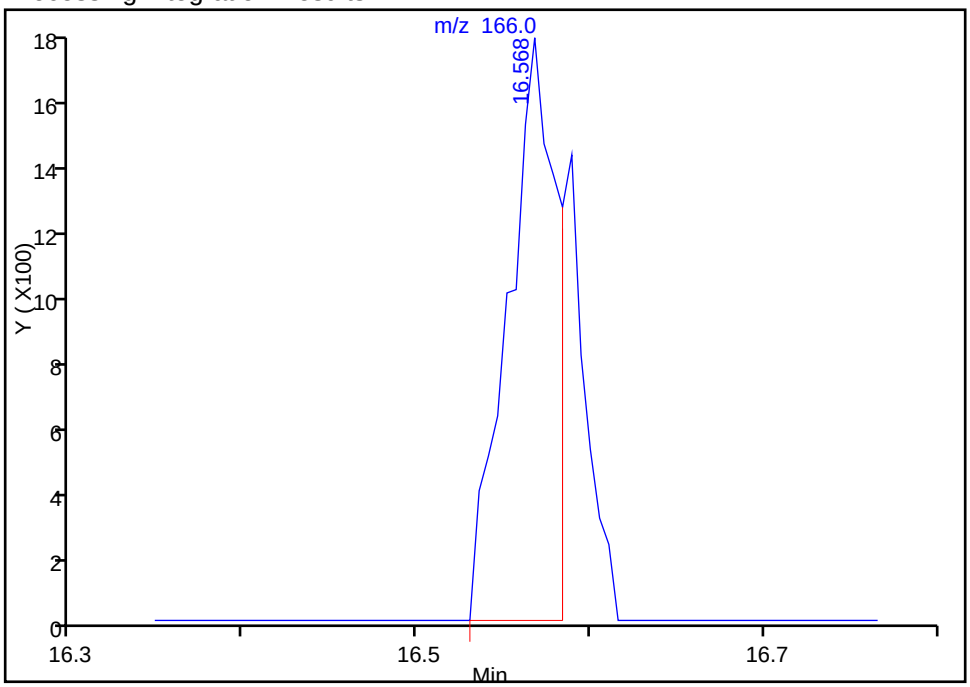
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

69 Tetrachloroethene, CAS: 127-18-4

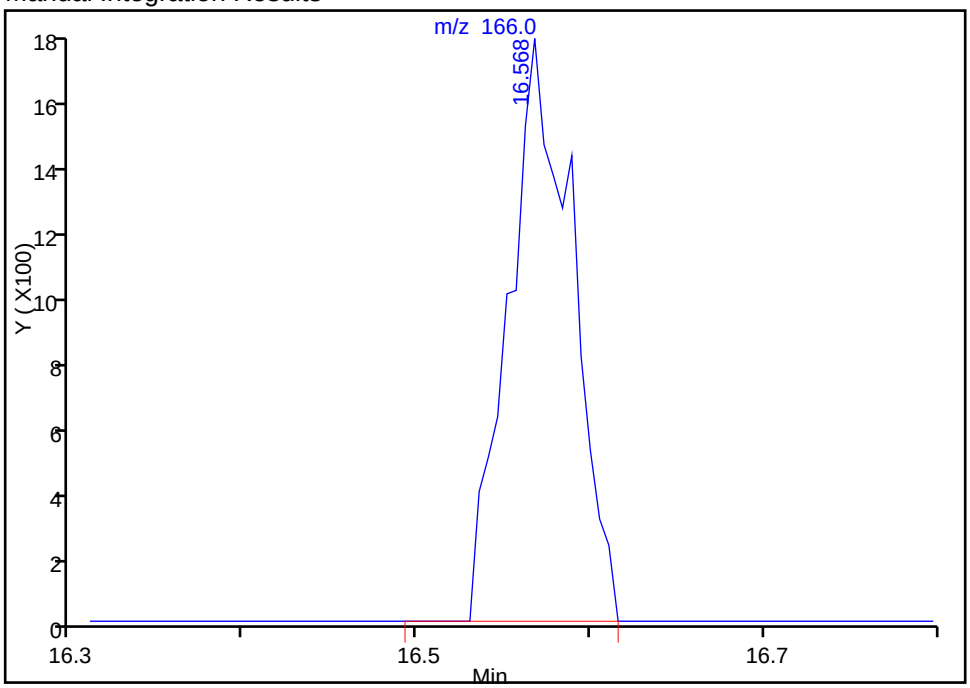
Processing Integration Results

RT: 16.57
Area: 3395
Amount: 0.090036
Amount Units: ppb v/v



Manual Integration Results

RT: 16.57
Area: 4422
Amount: 0.117272
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:51:59
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

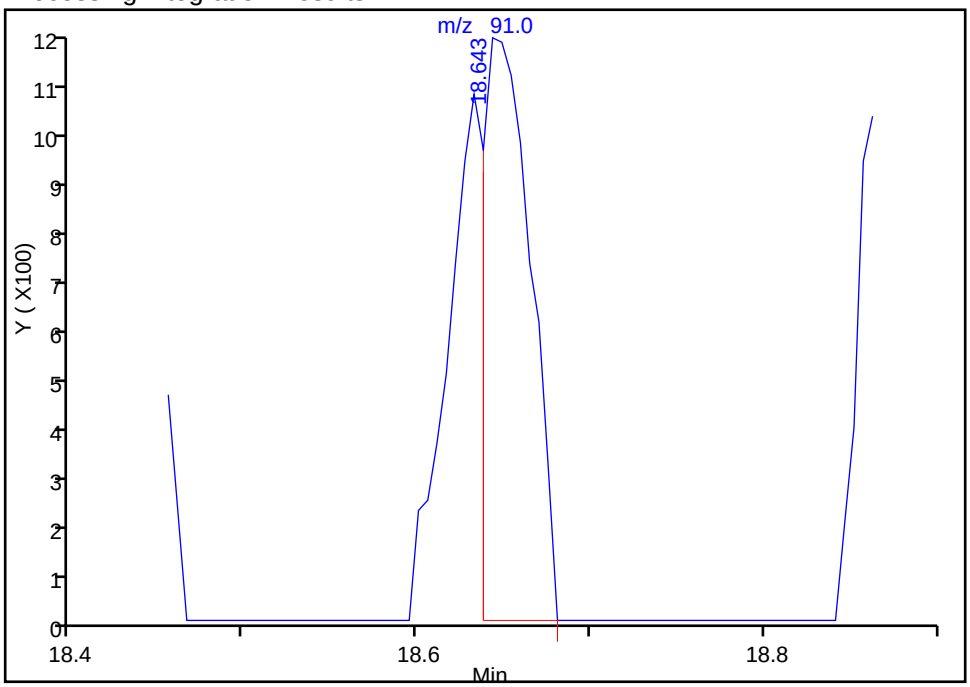
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_25.D				
Injection Date:	06-Oct-2015 04:22:30	Instrument ID:	CHX.i		
Lims ID:	200-29972-A-20	Lab Sample ID:	200-29972-20		
Client ID:	FR-SS10-092315				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	25
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

75 Ethylbenzene, CAS: 100-41-4

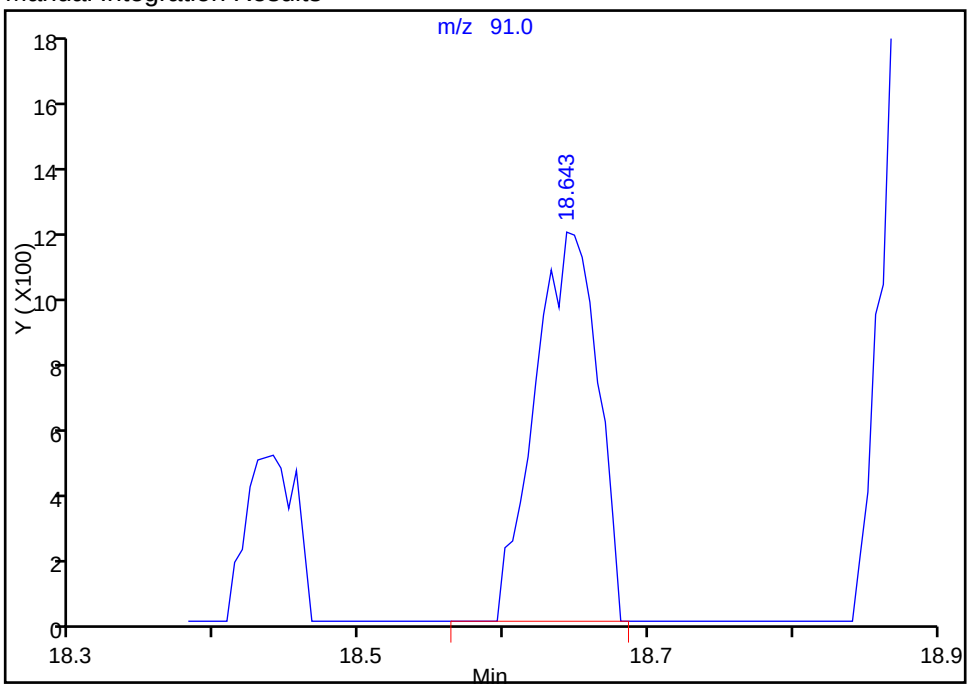
Processing Integration Results

RT: 18.64
Area: 2182
Amount: 0.026731
Amount Units: ppb v/v



Manual Integration Results

RT: 18.64
Area: 3441
Amount: 0.042154
Amount Units: ppb v/v



Reviewer: desjardinsb, 06-Oct-2015 11:51:59
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 | Lab Sample ID: 200-29972-21

Matrix: Air | Lab File ID: 15991_022.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 03:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.73		0.50	0.080
75-45-6	Freon 22	86.47	0.95		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.70		0.50	0.093
106-97-8	n-Butane	58.12	7.5		0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.12	J	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	*Trichlorofluoromethane*	*137.37*	*60*	*E*	*0.20*	*0.038*
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.83		0.20	0.036
67-64-1	Acetone	58.08	9.1		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	6.4		5.0	0.98
75-15-0	Carbon disulfide	76.14	0.13	J	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.32	J	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.74		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.25		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.81		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.61		0.20	0.046
110-82-7	Cyclohexane	84.16	0.21		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.092		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.32		0.20	0.039
71-43-2	Benzene	78.11	0.74		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	1.1		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 Lab Sample ID: 200-29972-21

Matrix: Air Lab File ID: 15991_022.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 03:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.31		0.20	0.040
79-01-6	Trichloroethene	131.39	0.041		0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	1.6		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.075	J	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.20		0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.67		0.50	0.071
95-47-6	Xylene, o-	106.17	0.22		0.20	0.037
1330-20-7	Xylene (total)	106.17	0.89		0.70	0.037
100-42-5	Styrene	104.15	0.22		0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.030	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.044	J	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.053	J	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.22		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.10	J	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.072	J	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 Lab Sample ID: 200-29972-21

Matrix: Air Lab File ID: 15991_022.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 03:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.11	J	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 | Lab Sample ID: 200-29972-21

Matrix: Air | Lab File ID: 15991_022.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 03:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.6		2.5	0.40
75-45-6	Freon 22	86.47	3.4		1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.4		1.0	0.19
106-97-8	n-Butane	58.12	18		1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	0.33	J	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	*Trichlorofluoromethane*	*137.37*	*340*	*E*	*1.1*	*0.21*
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	3.3		0.79	0.14
67-64-1	Acetone	58.08	22		12	2.0
67-63-0	Isopropyl alcohol	60.10	16		12	2.4
75-15-0	Carbon disulfide	76.14	0.41	J	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	2.6		0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.99		0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	2.4		1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	3.3		1.1	0.25
110-82-7	Cyclohexane	84.16	0.71		0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.58		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.5		0.93	0.18
71-43-2	Benzene	78.11	2.4		0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	4.6		0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 | Lab Sample ID: 200-29972-21

Matrix: Air | Lab File ID: 15991_022.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 03:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	1.3		0.82	0.16
79-01-6	Trichloroethene	131.39	0.22		0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	6.1		0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	0.51	J	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.85		0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.9		2.2	0.31
95-47-6	Xylene, o-	106.17	0.95		0.87	0.16
1330-20-7	Xylene (total)	106.17	3.9		3.0	0.16
100-42-5	Styrene	104.15	0.94		0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.15	J	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.21	J	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.26	J	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1		0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	0.55	J	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	0.43	J	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 Lab Sample ID: 200-29972-21

Matrix: Air Lab File ID: 15991_022.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 03:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	0.58	J	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d
Lims ID: 200-29972-A-21 Lab Sample ID: 200-29972-21
Client ID: FR-IA10-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 03:52:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-022
Misc. Info.: 29972-21
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 14:08:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.426	4.426	0.000	99	34404	0.7329	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	96	17986	0.9505	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.009	5.009	0.000	98	6376	0.6954	
6 Butane	43	5.287	5.282	0.005	96	99654	7.46	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54	5.458	5.453	0.005	12	341	0.0461	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64	6.678	6.667	0.011	82	883	0.1236	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.299	7.288	0.011	99	3177330	59.6	E
20 1,1,2-Trichloro-1,2,2-trif	101		8.588				ND	
21 1,1-Dichloroethene	96	8.673	8.663	0.010	95	12677	0.8289	
22 Acetone	43	8.946	8.935	0.011	98	151018	9.13	
23 Carbon disulfide	76	9.176	9.160	0.016	94	4871	0.1323	
24 Isopropyl alcohol	45	9.224	9.219	0.005	98	83818	6.36	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.941	9.925	0.016	78	3888	0.3205	
28 2-Methyl-2-propanol	59	10.118	10.112	0.006	94	2712	0.1164	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.861	10.851	0.010	89	11878	0.7382	
34 1,1-Dichloroethane	63	11.423	11.428	-0.005	95	5837	0.2456	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.654	12.653	0.001	99	6177	0.8077	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	72	147813	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83	13.210	13.215	-0.005	74	2552	0.0700	
43 Cyclohexane	84	13.515	13.509	0.006	78	4132	0.2076	M
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	94	26183	0.6137	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117	13.782	13.782	0.000	91	4333	0.0923	
	46 Isooctane	57	14.178	14.183	-0.005	95	17188	0.3187	
	47 Benzene	78	14.253	14.253	0.000	94	34329	0.7378	
	48 1,2-Dichloroethane	62	14.414	14.419	-0.005	99	25240	1.13	
	49 n-Heptane	43	14.531	14.531	0.000	76	5251	0.3126	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	687345	10.0	
	53 Trichloroethene	95	15.478	15.478	0.000	75	977	0.0409	M
	54 1,2-Dichloropropane	63		16.013				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88	16.206	16.195	0.011	80	1111	0.1363	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
	65 Toluene	92	17.961	17.960	0.001	93	62668	1.61	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.859				ND	
	68 Tetrachloroethene	166	18.993	18.987	0.006	91	3512	0.0750	
	69 2-Hexanone	43		19.260				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106				0		0.8856	
*	74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	672915	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91	20.898	20.897	0.001	97	17078	0.1962	
	78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	23417	0.6659	
	79 o-Xylene	106	21.807	21.801	0.006	97	7617	0.2197	
	80 Styrene	104	21.839	21.839	0.000	92	11967	0.2202	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105	22.347	22.352	-0.005	93	3220	0.0303	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.973				ND	
	88 4-Ethyltoluene	105	23.139	23.144	-0.005	98	5135	0.0437	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	90	5356	0.0528	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	95	22090	0.2196	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119	24.262	24.268	-0.006	96	12359	0.0995	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	94	5890	0.0716	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.920				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128	28.767	28.767	0.000	98	14014	0.1101	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

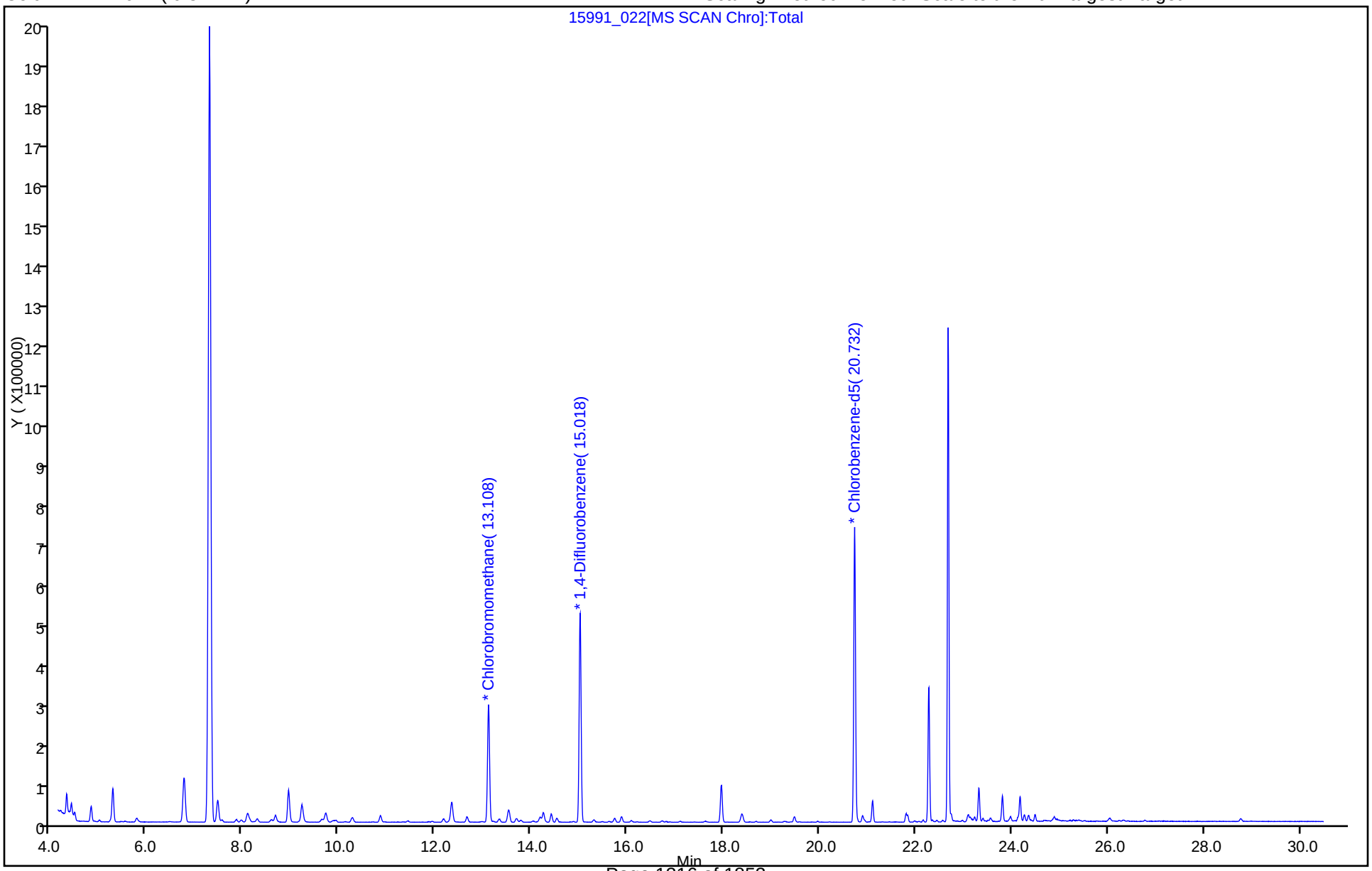
Report Date: 30-Sep-2015 14:18:18 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21	Worklist Smp#:	22
Client ID:	FR-IA10-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

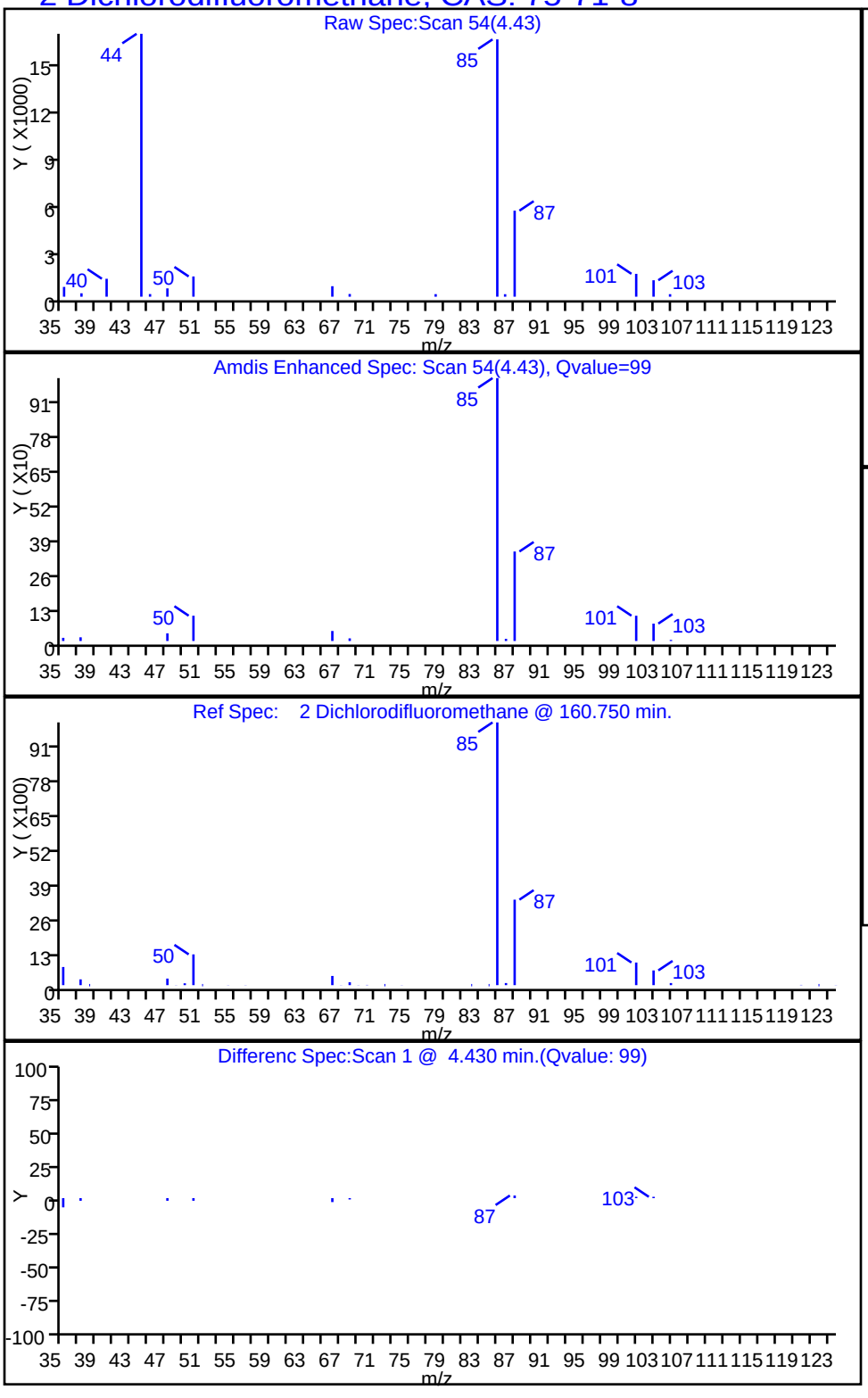


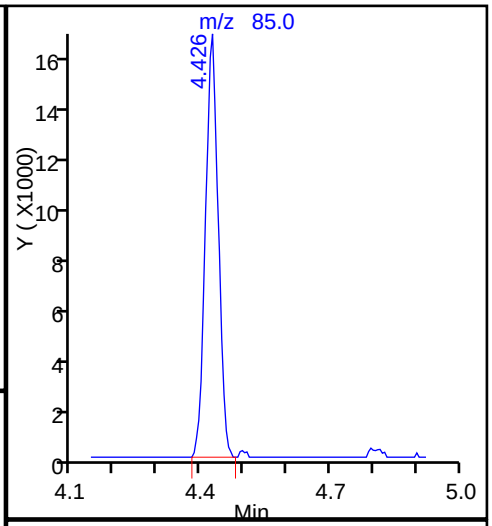
Report Date: 30-Sep-2015 14:18:18 Chrom Revision: 2.2 23-Jul-2015 08:26:08

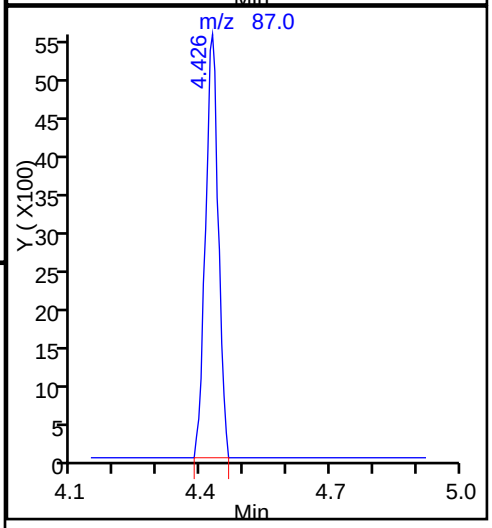
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8







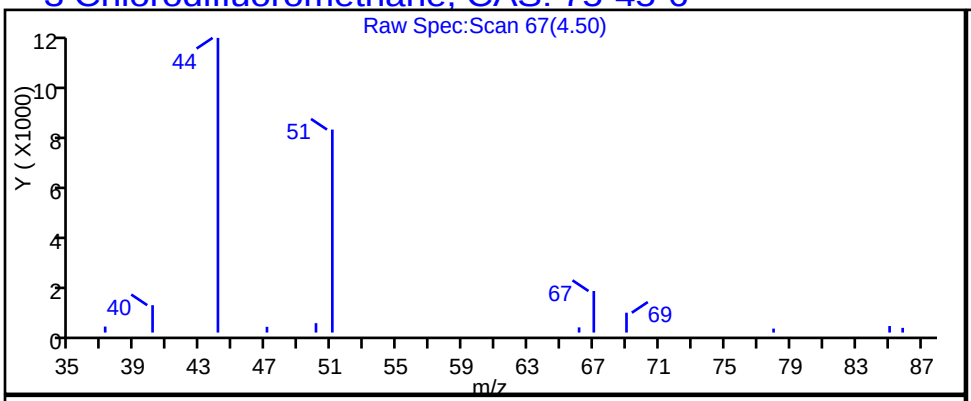
Report Date: 30-Sep-2015 14:18:18 Chrom Revision: 2.2 23-Jul-2015 08:26:08

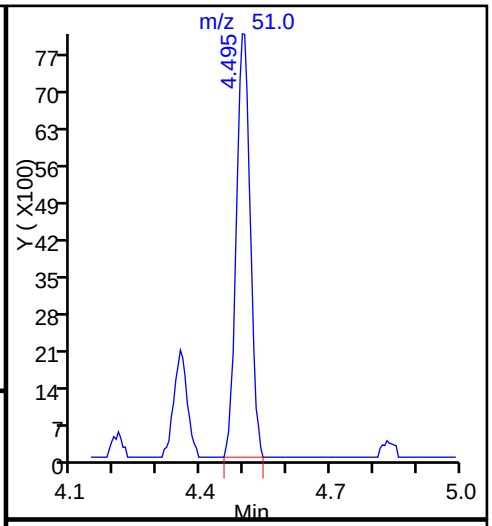
TestAmerica Burlington

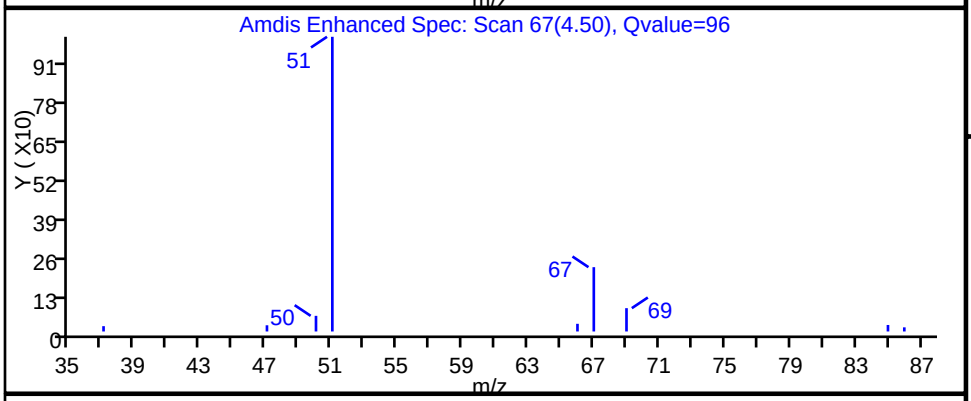
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

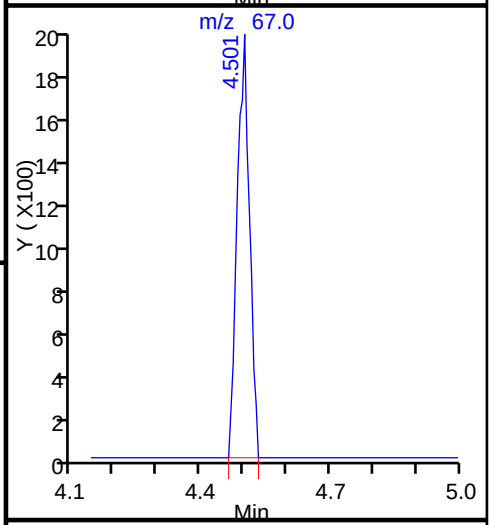
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

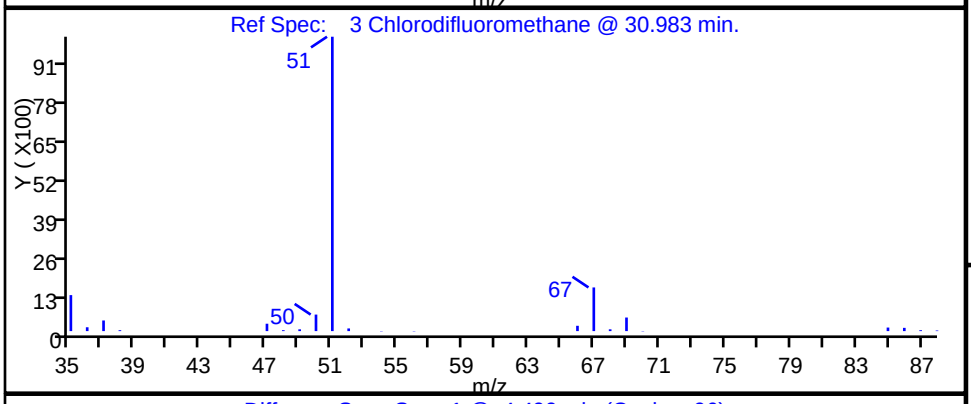
3 Chlorodifluoromethane, CAS: 75-45-6

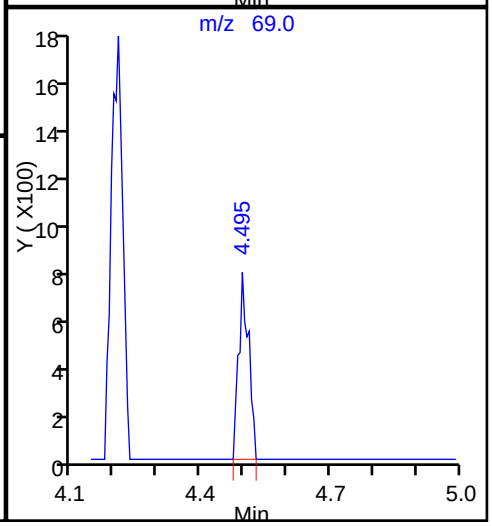


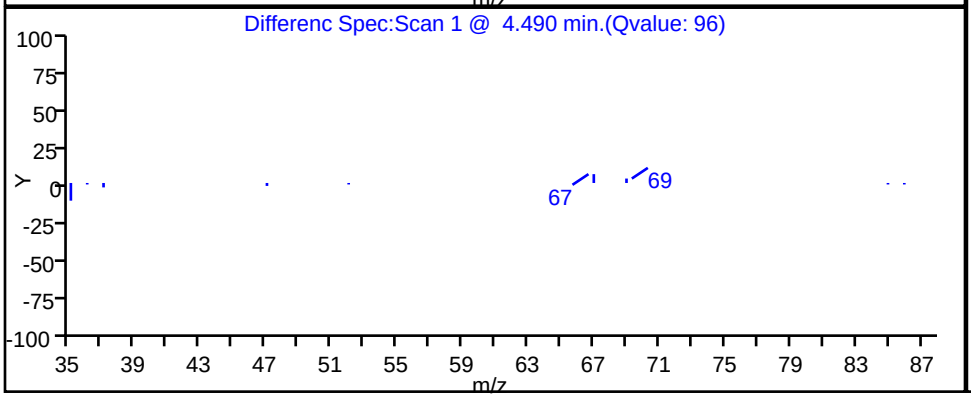












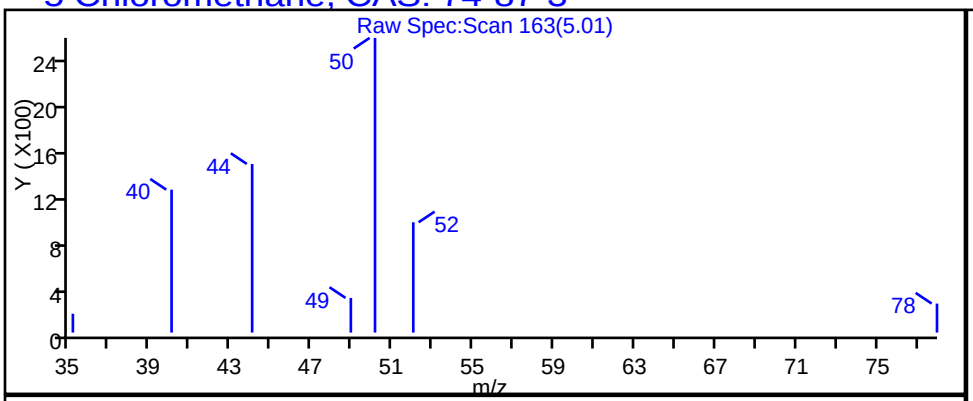
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

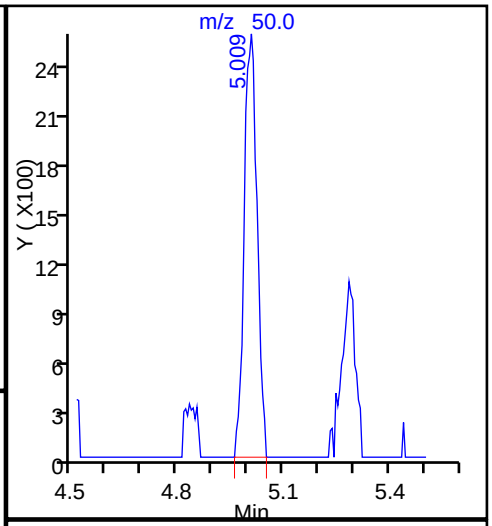
TestAmerica Burlington

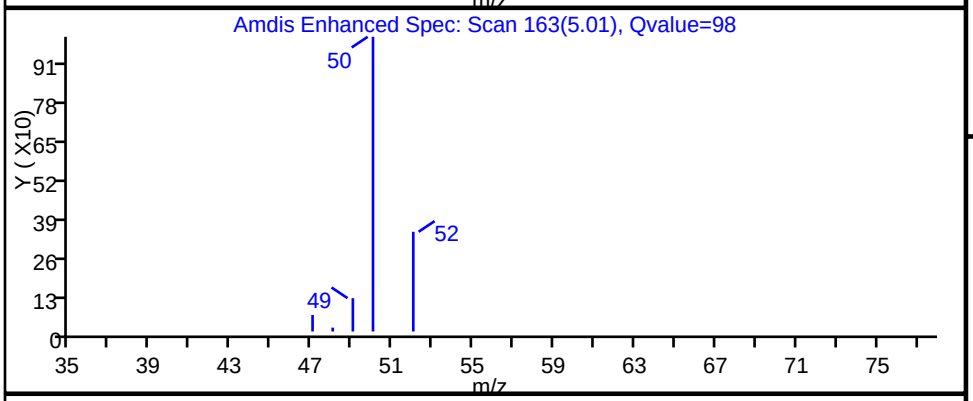
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

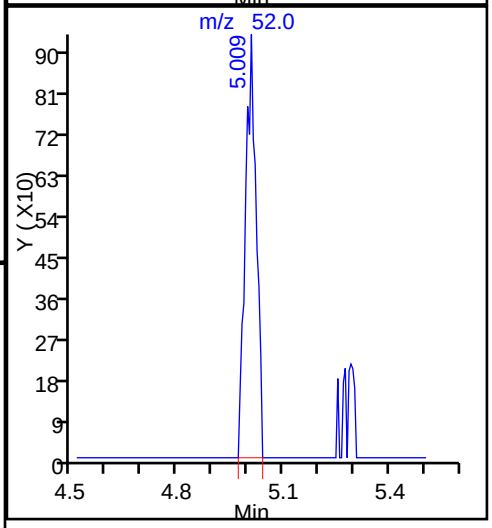
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

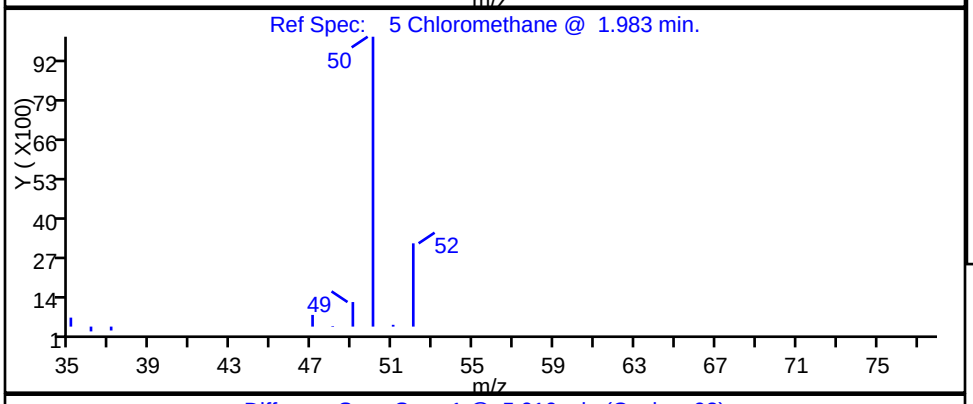
5 Chloromethane, CAS: 74-87-3

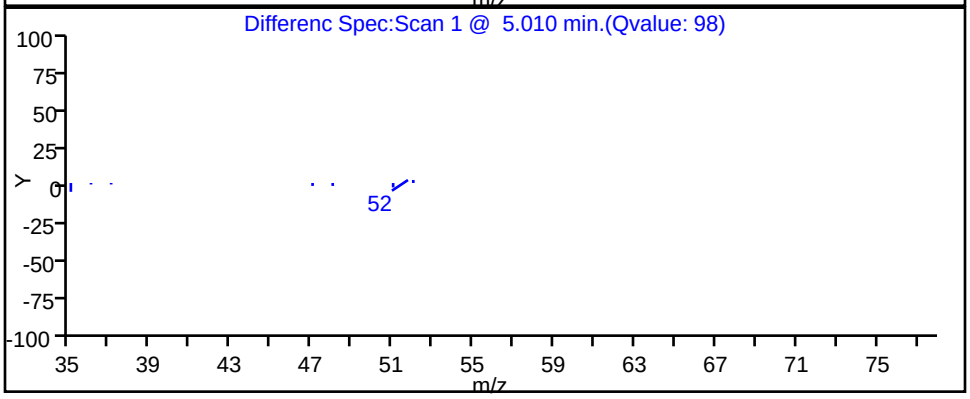












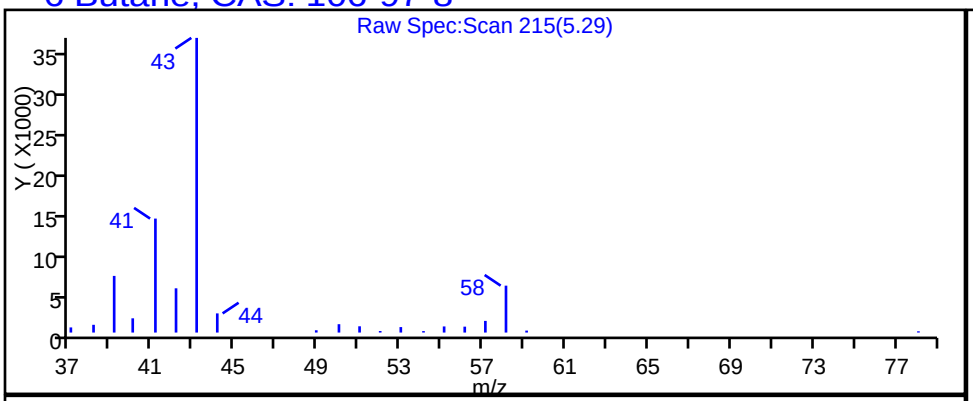
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

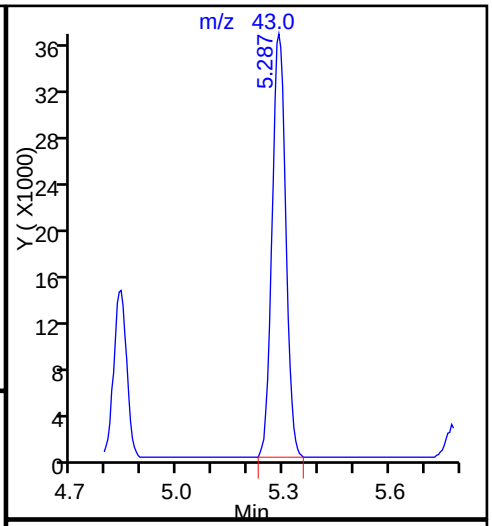
TestAmerica Burlington

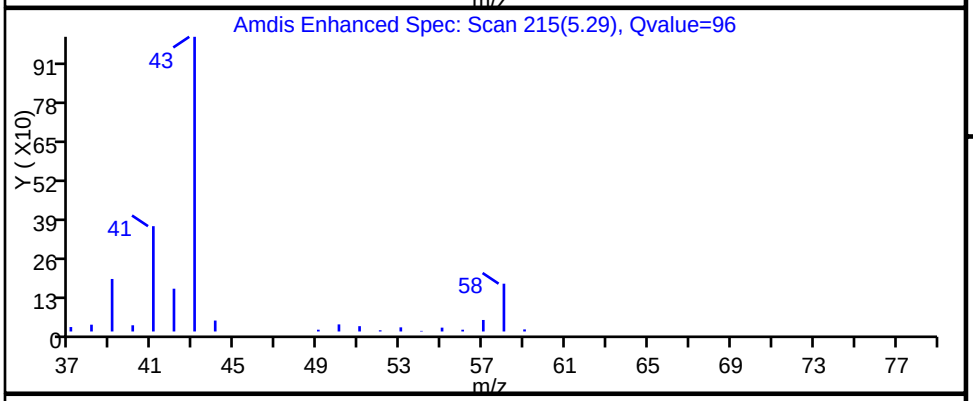
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

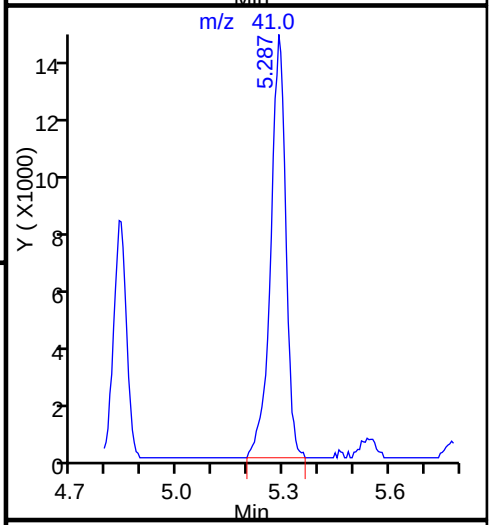
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

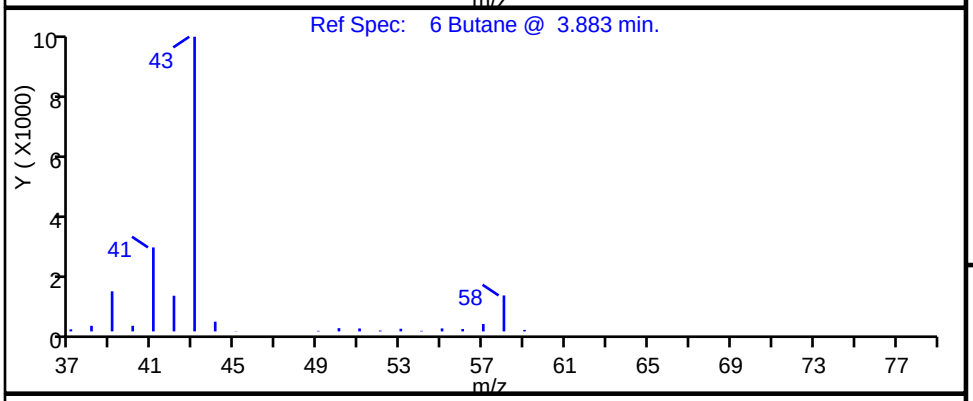
6 Butane, CAS: 106-97-8

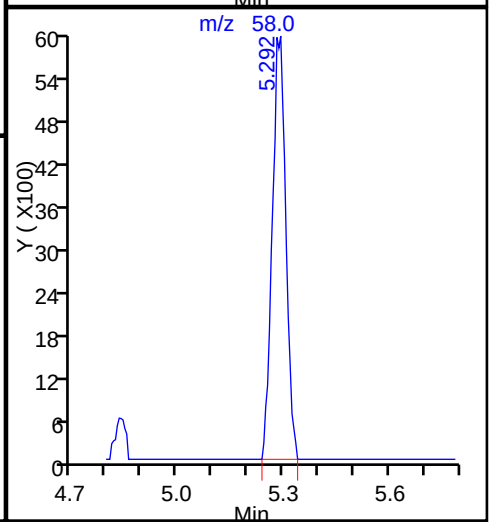


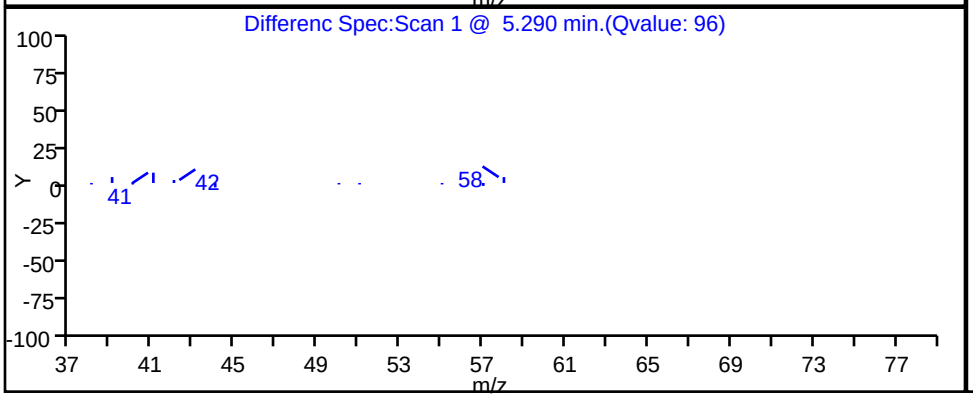












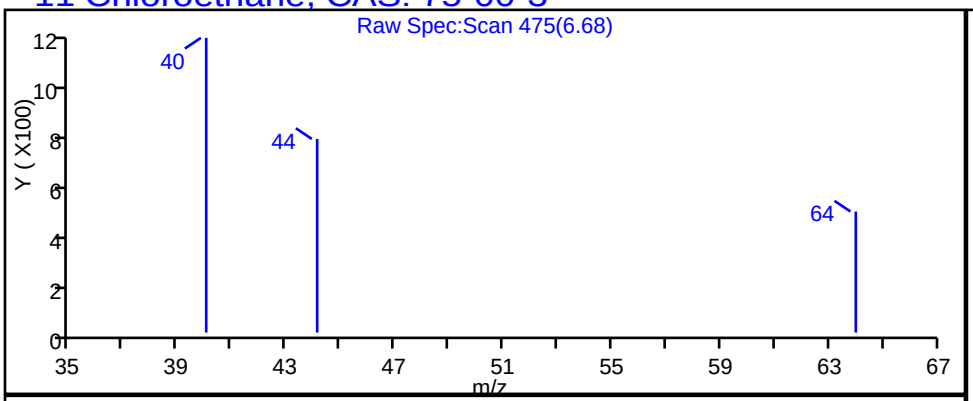
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

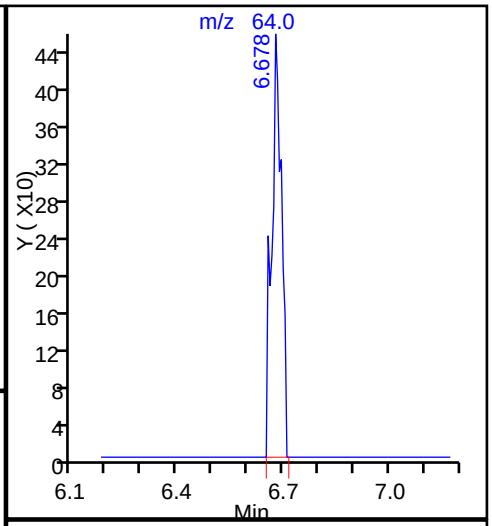
TestAmerica Burlington

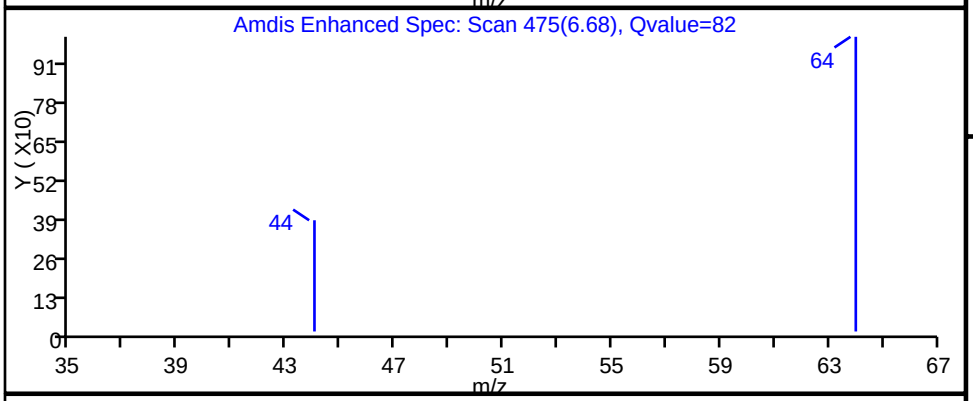
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

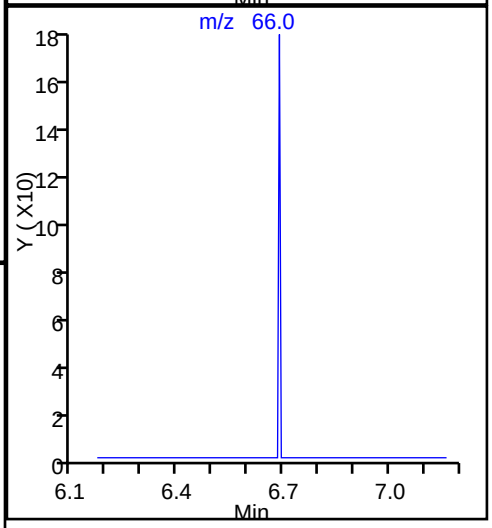
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

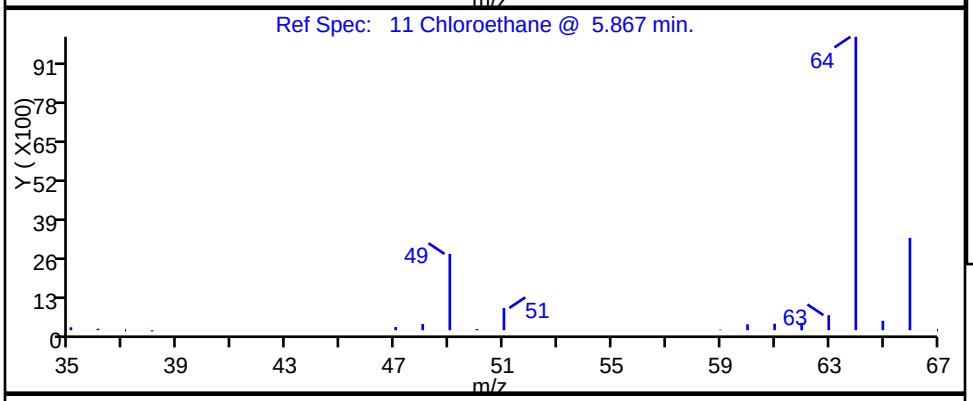
11 Chloroethane, CAS: 75-00-3

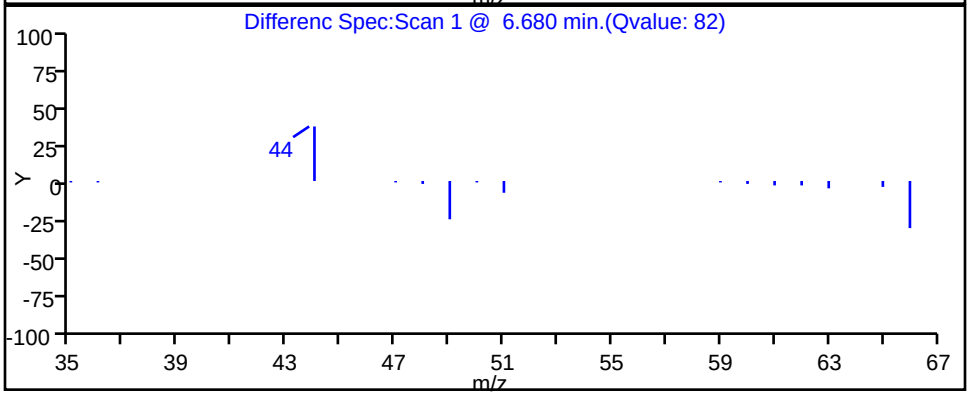










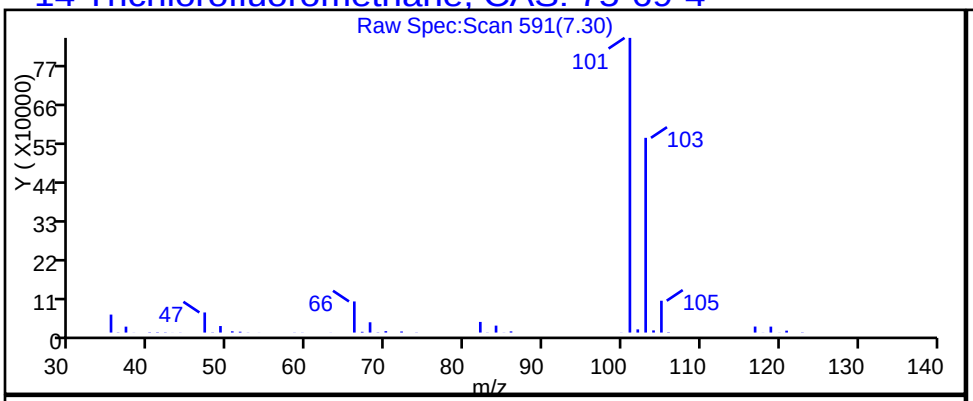


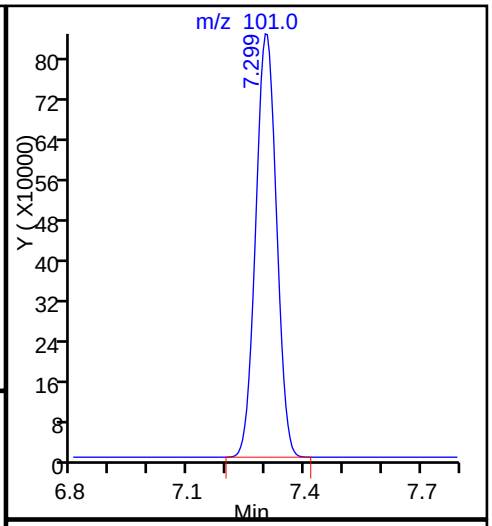
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

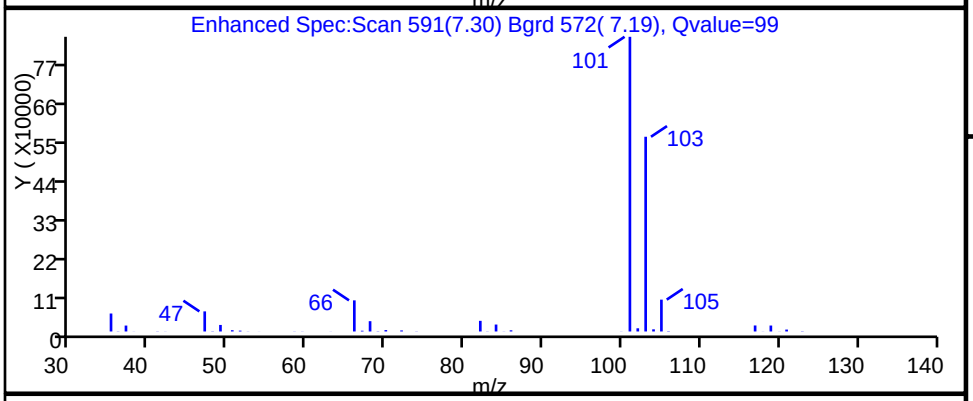
TestAmerica Burlington

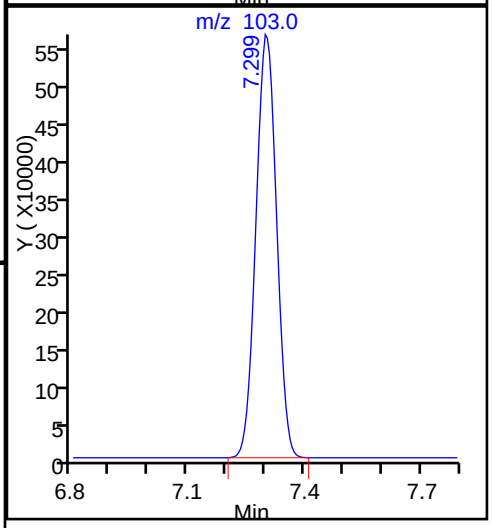
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

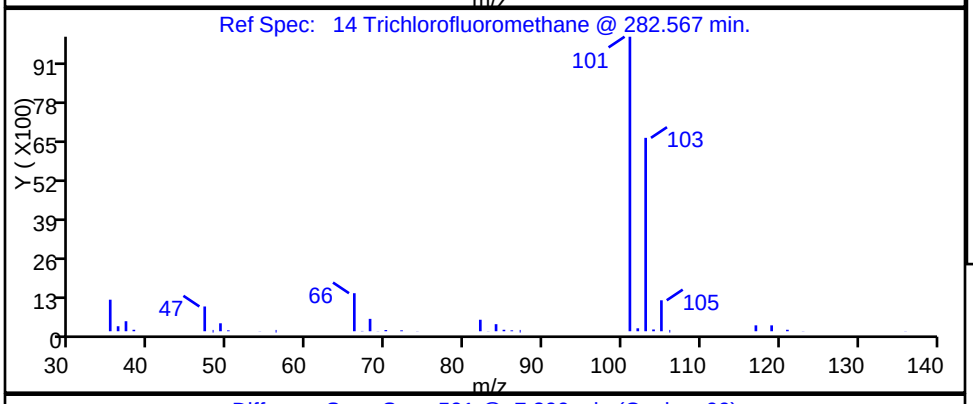
14 Trichlorofluoromethane, CAS: 75-69-4

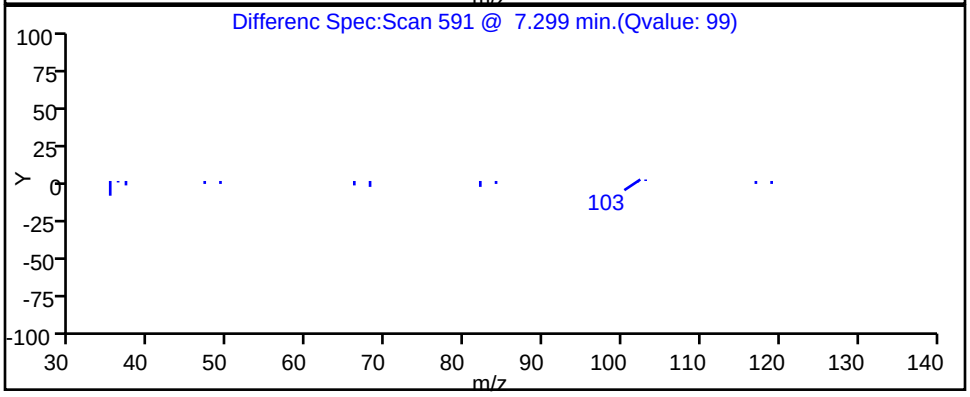












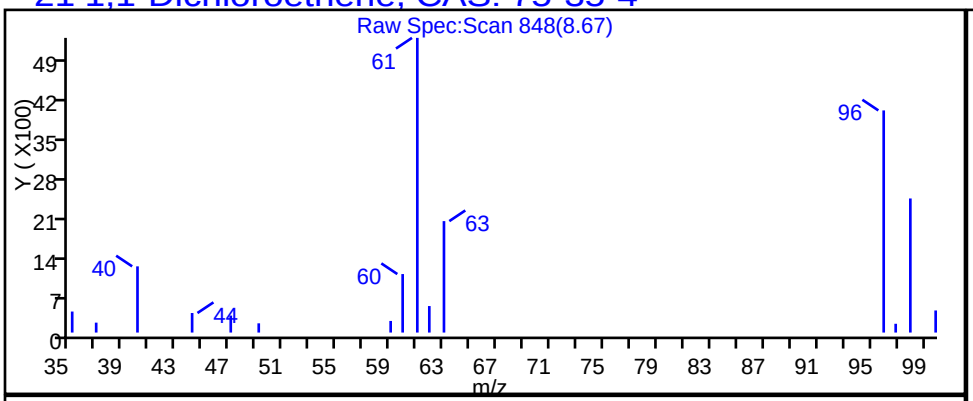
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

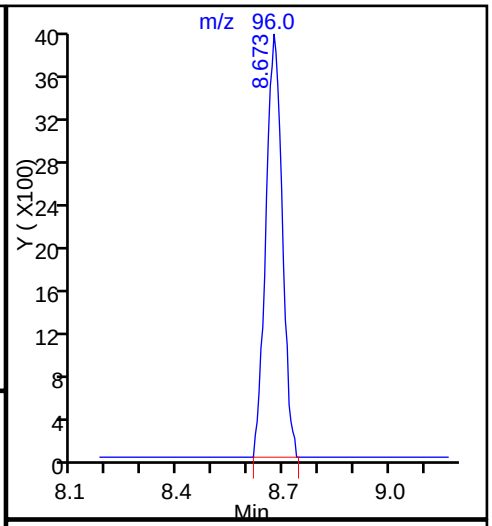
TestAmerica Burlington

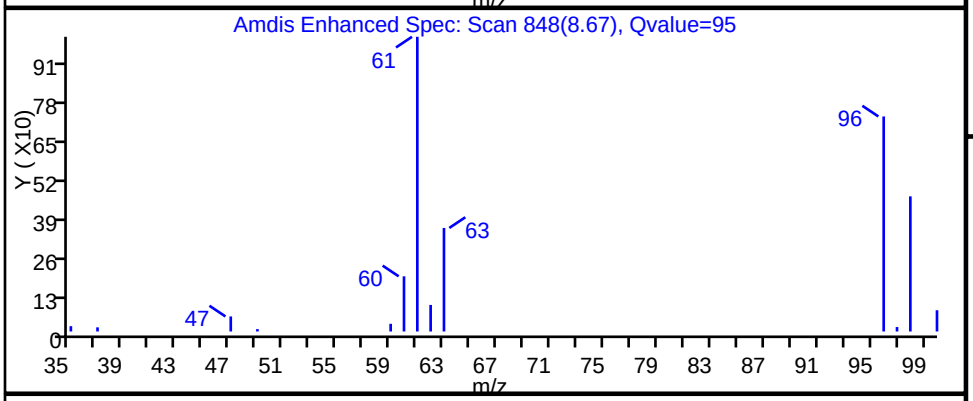
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

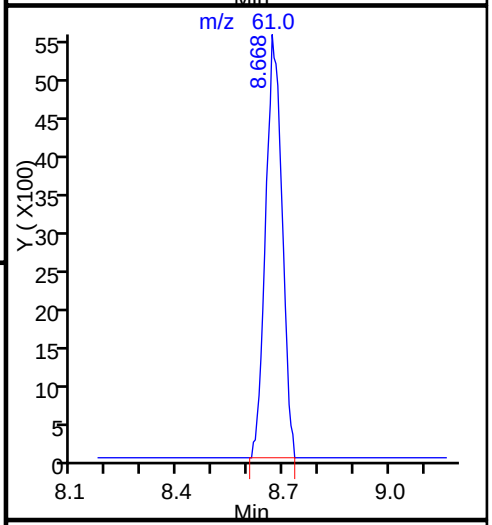
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

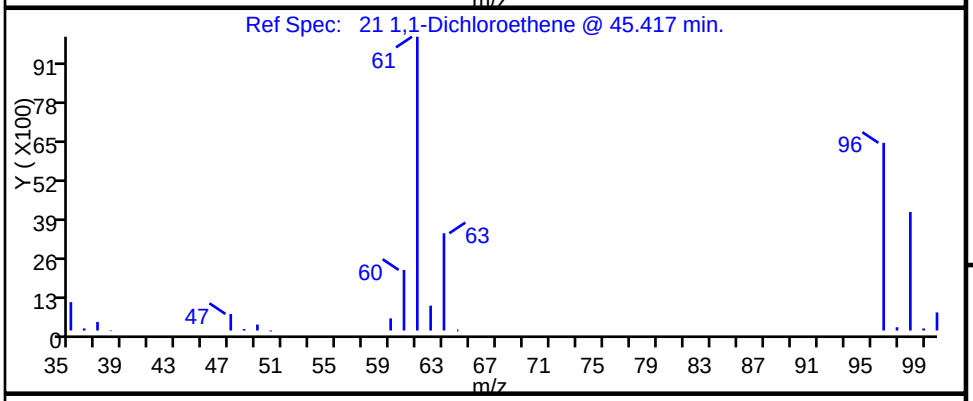
21 1,1-Dichloroethene, CAS: 75-35-4

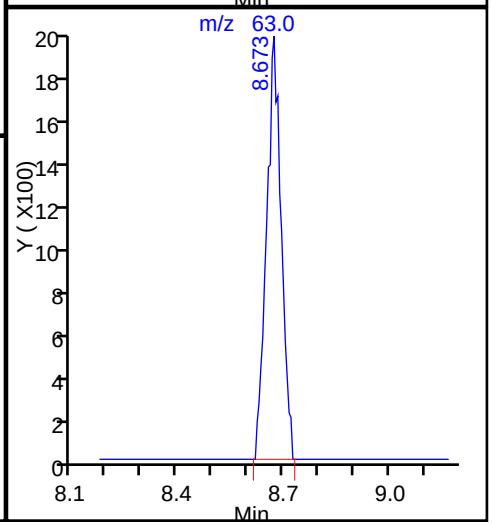


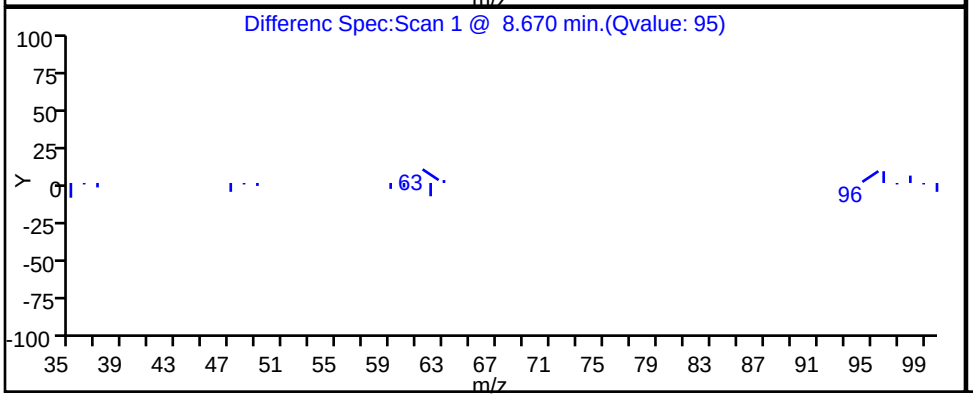












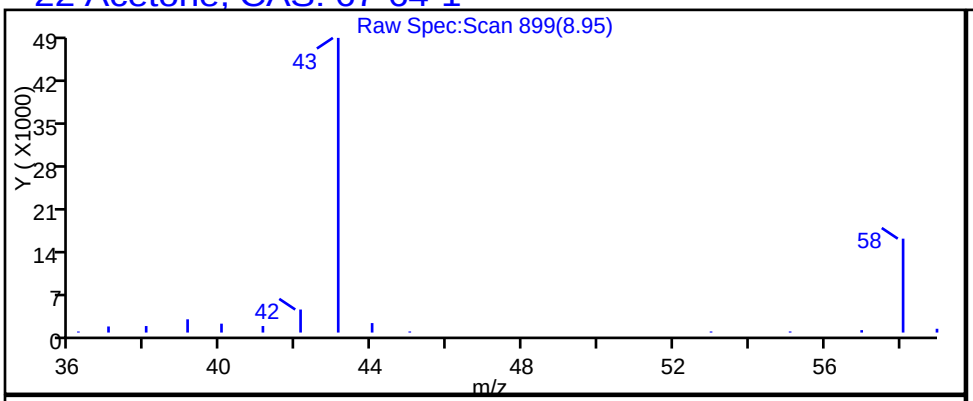
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

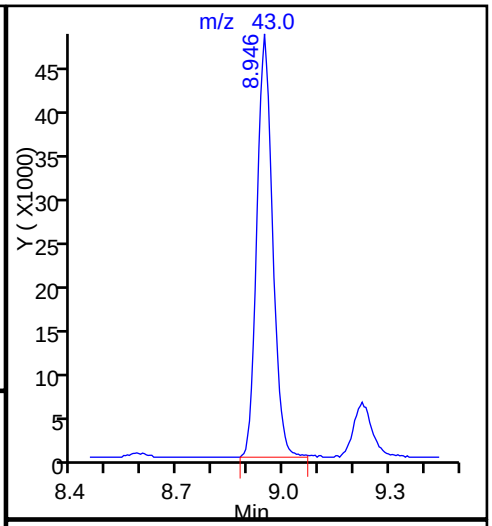
TestAmerica Burlington

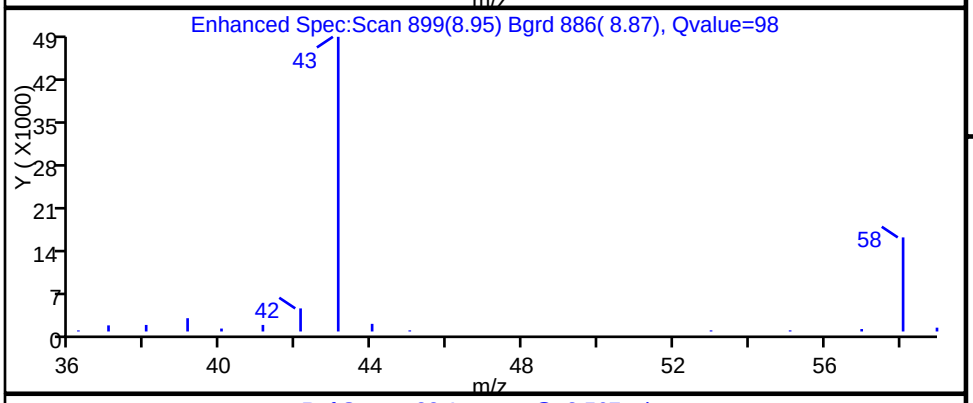
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

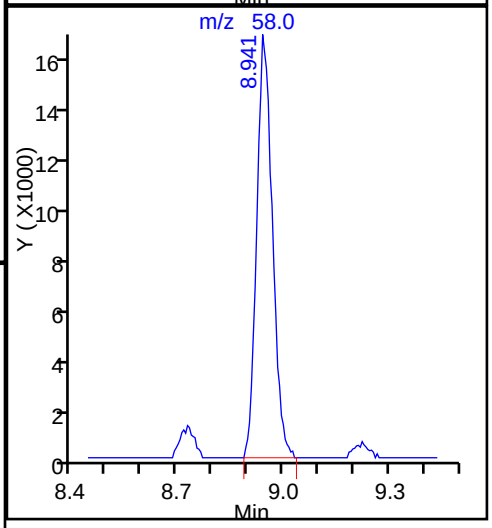
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

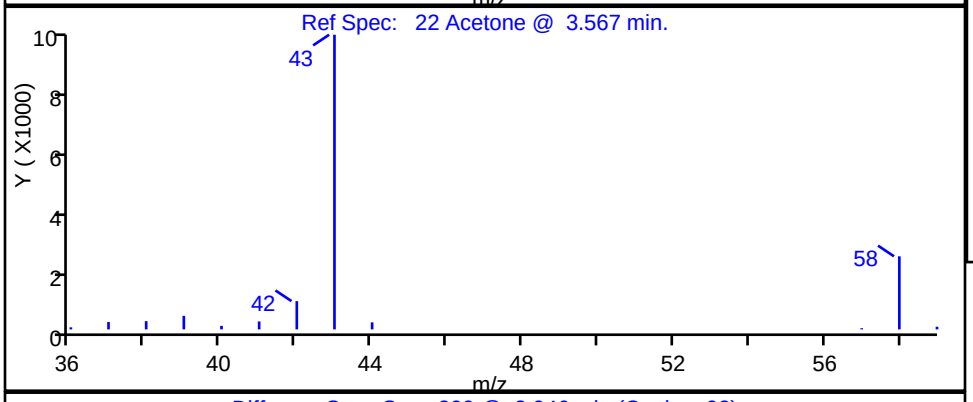
22 Acetone, CAS: 67-64-1

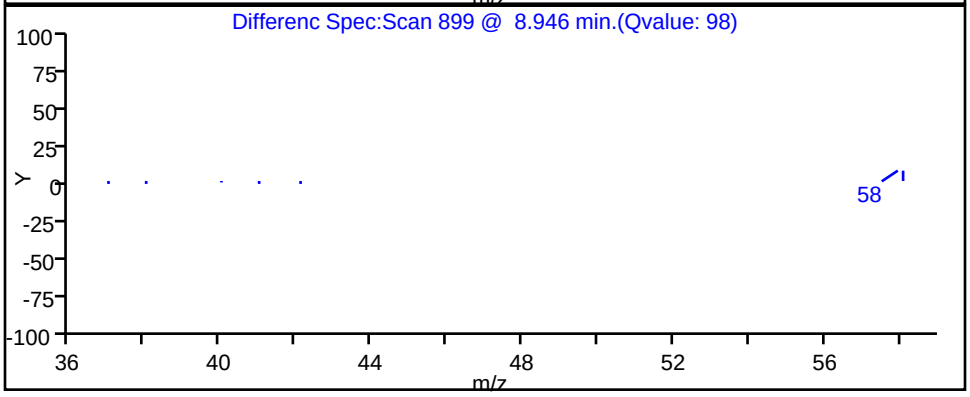












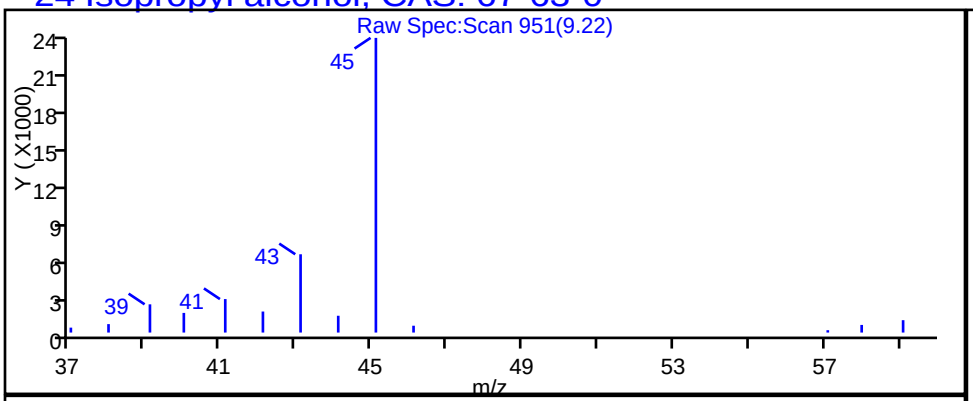
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

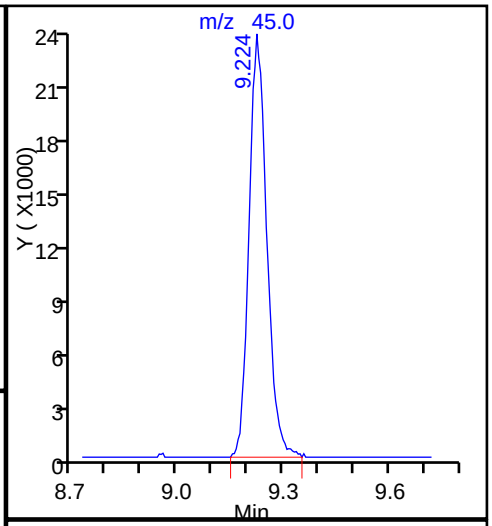
TestAmerica Burlington

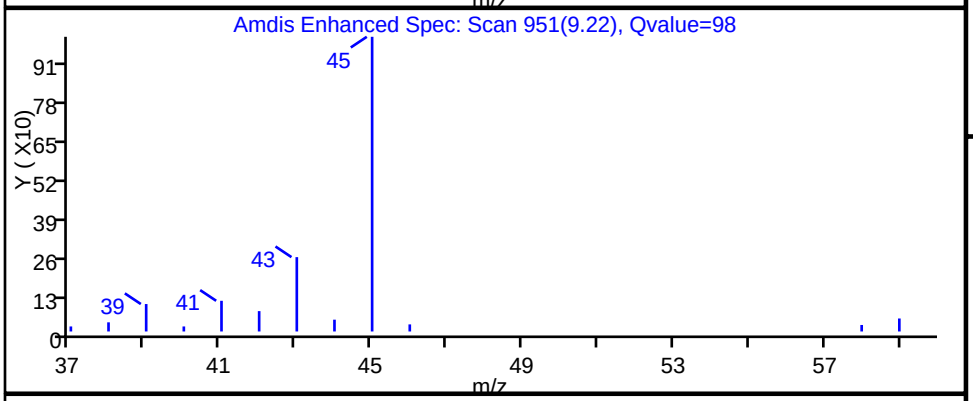
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

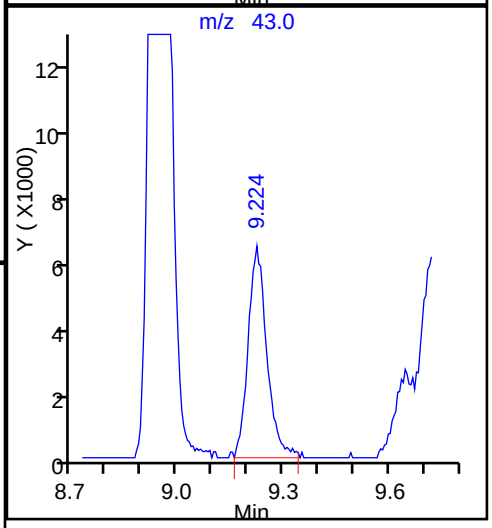
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

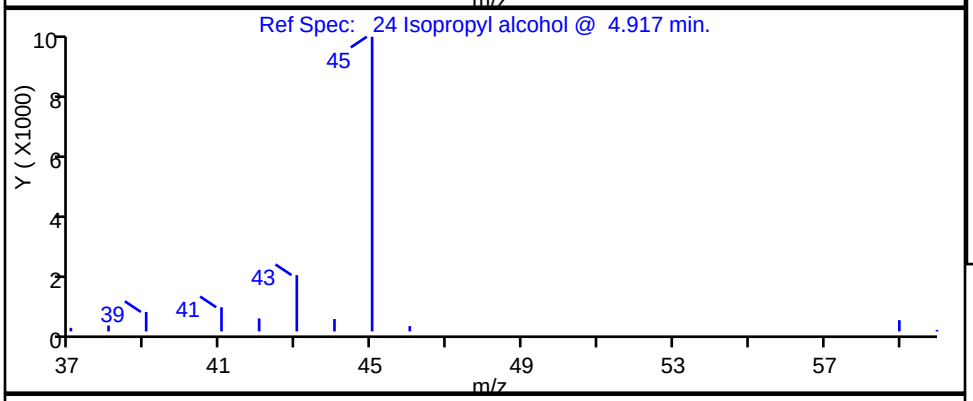
24 Isopropyl alcohol, CAS: 67-63-0

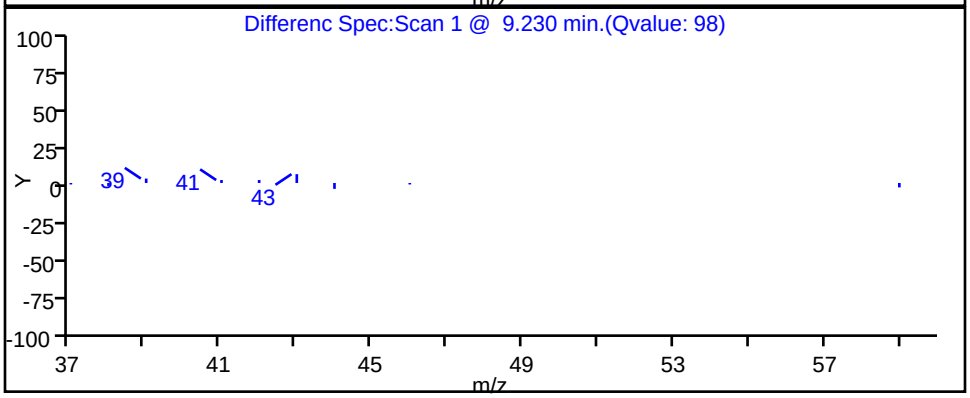










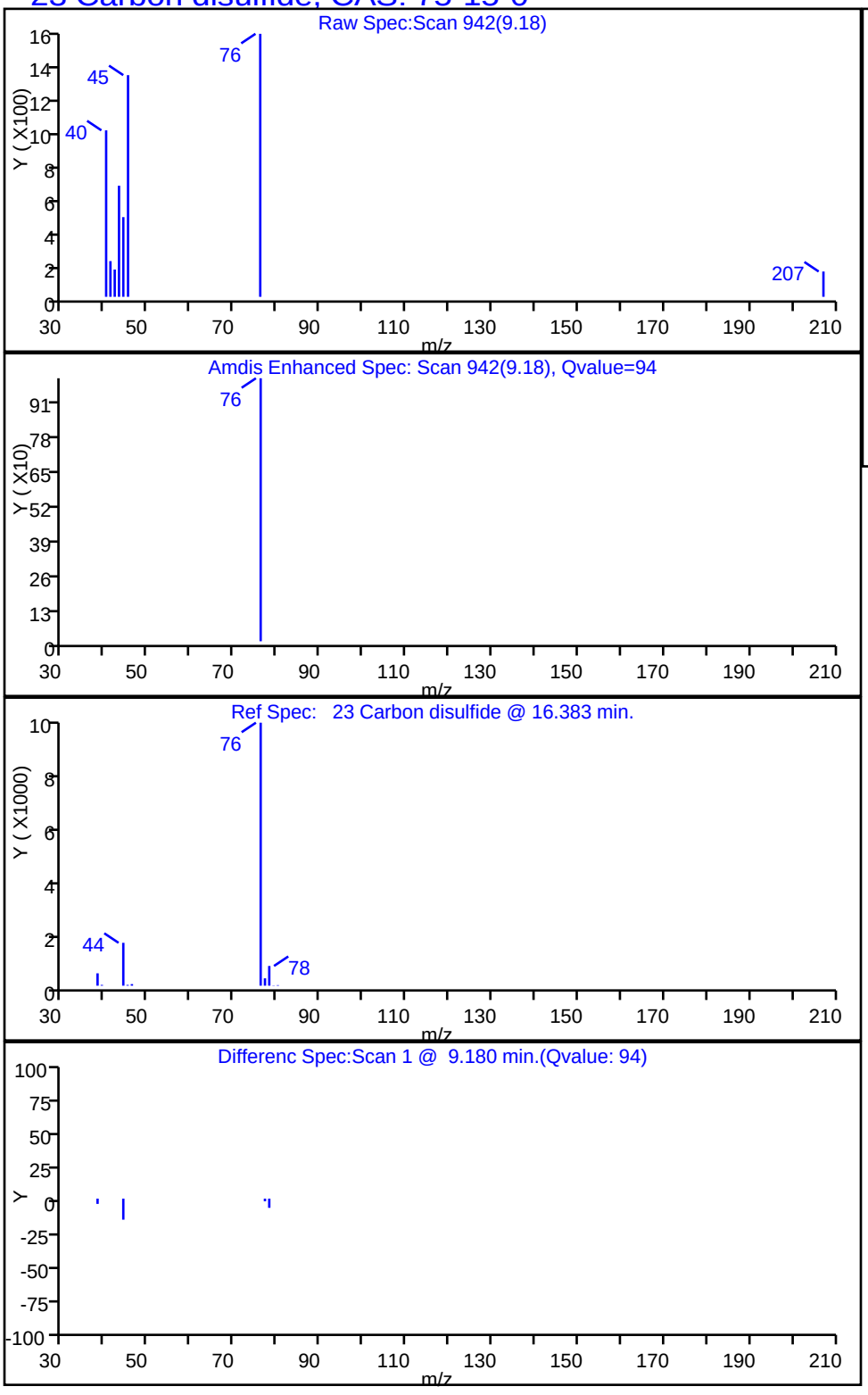


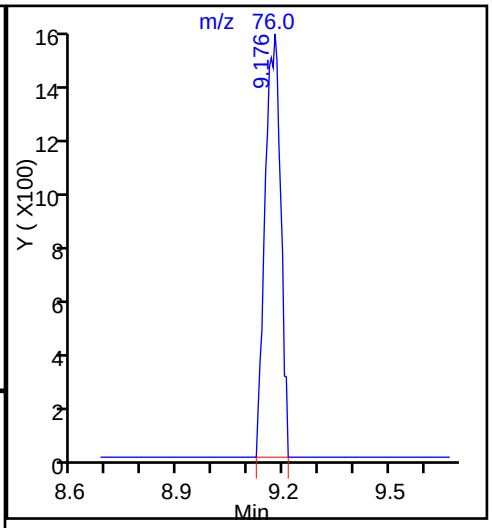
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0





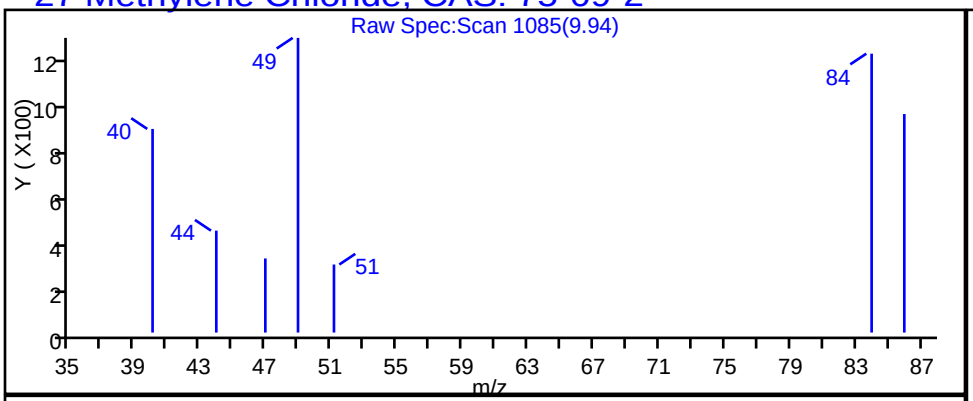
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

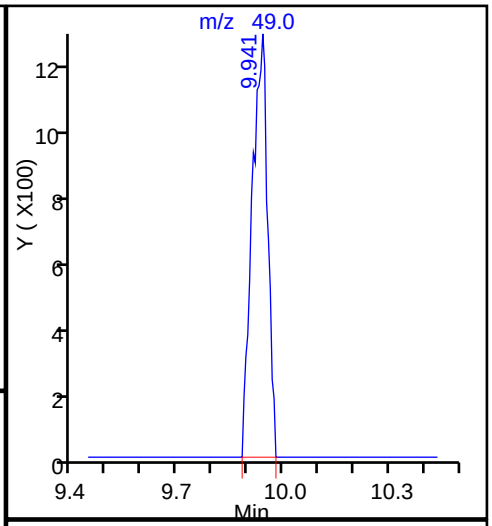
TestAmerica Burlington

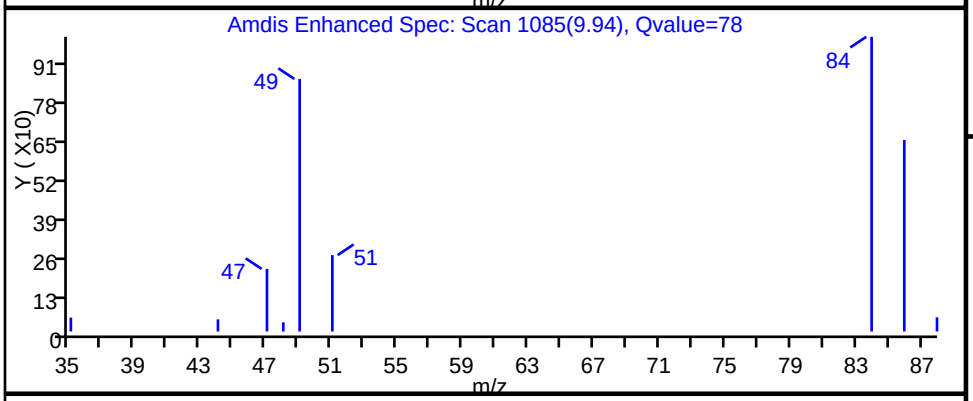
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

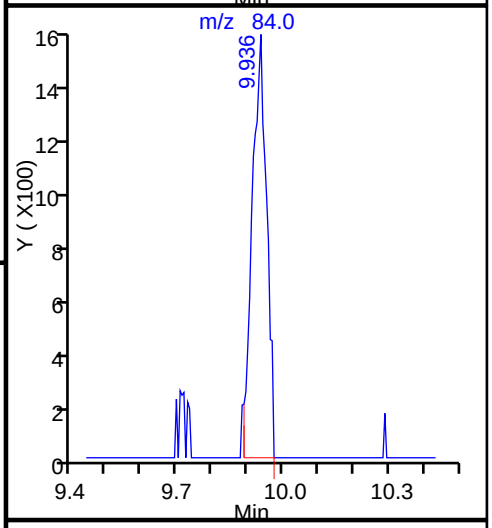
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

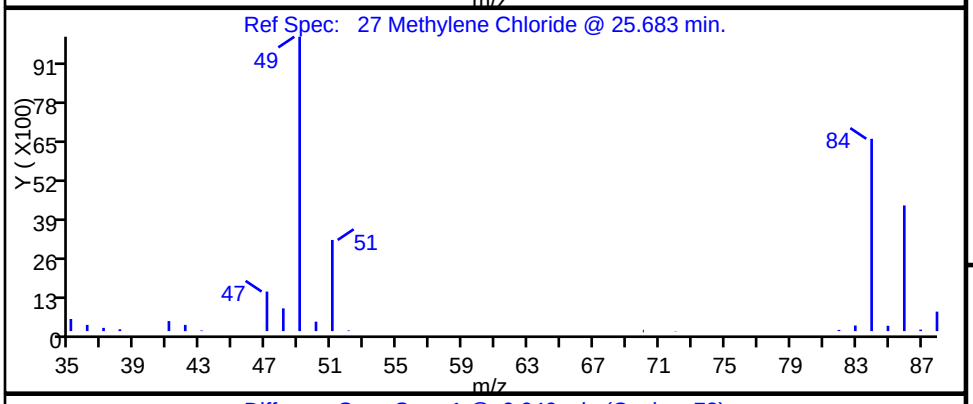
27 Methylene Chloride, CAS: 75-09-2

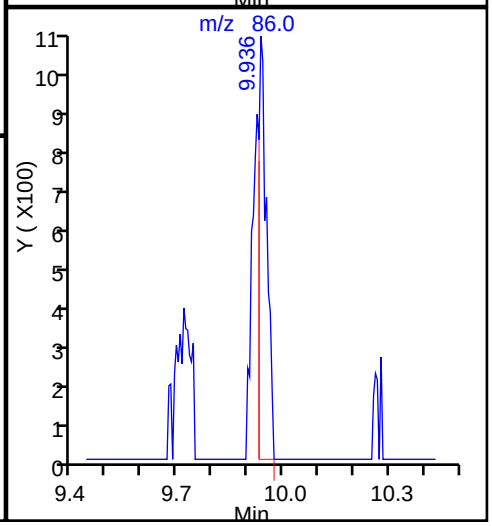


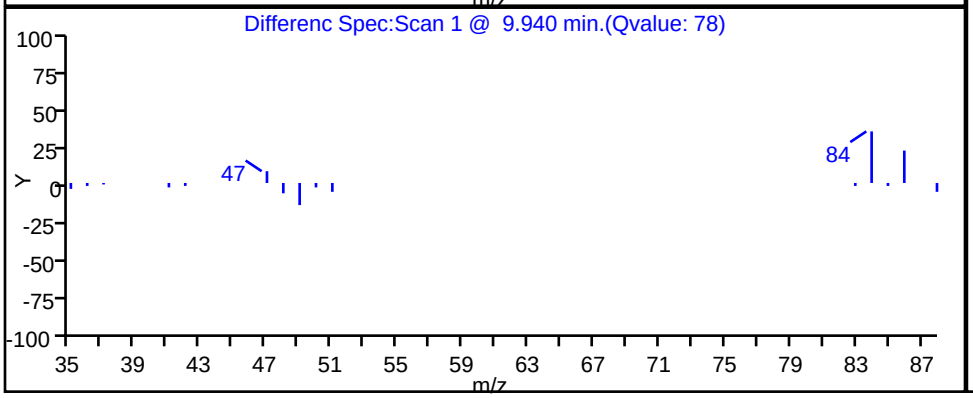












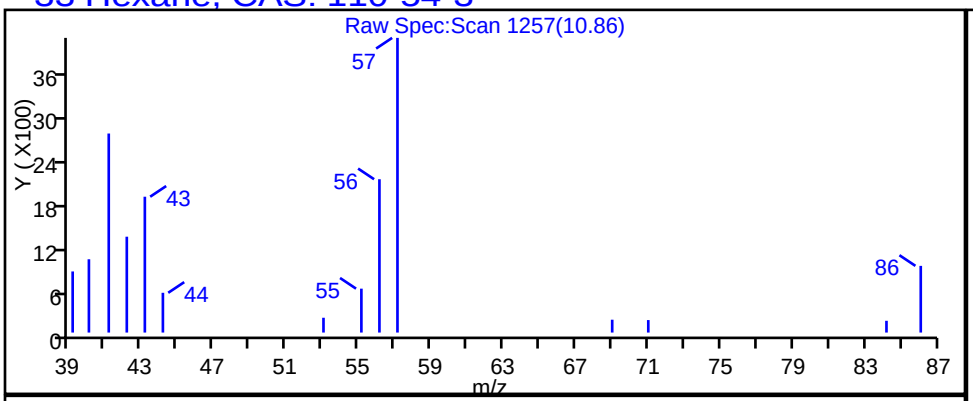
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

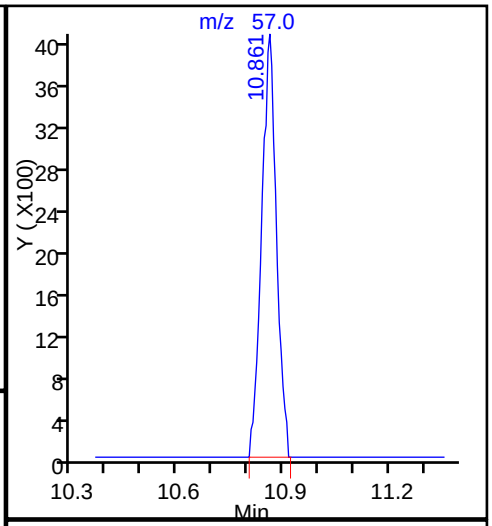
TestAmerica Burlington

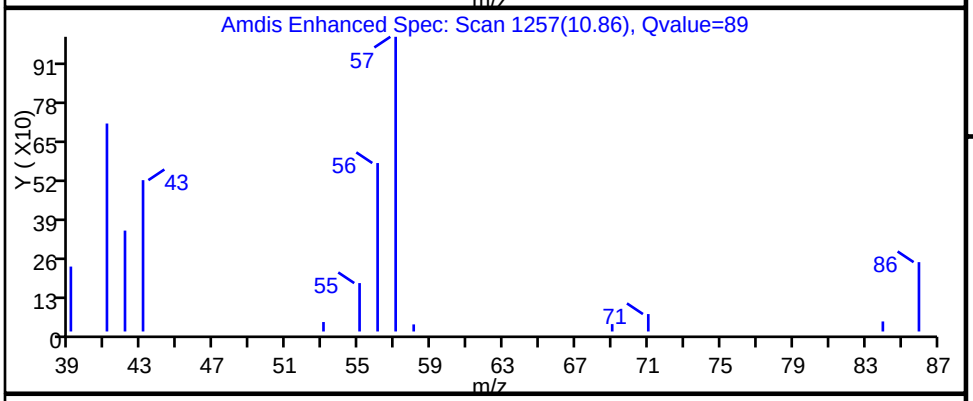
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

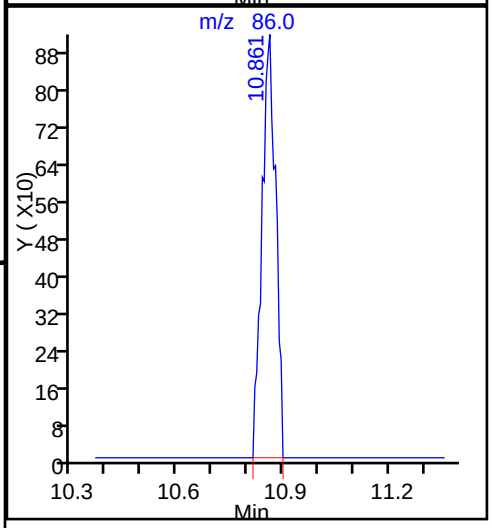
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

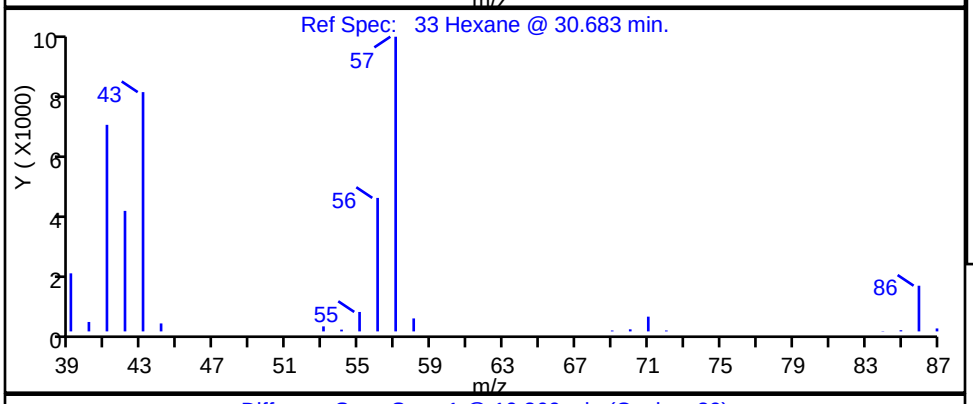
33 Hexane, CAS: 110-54-3

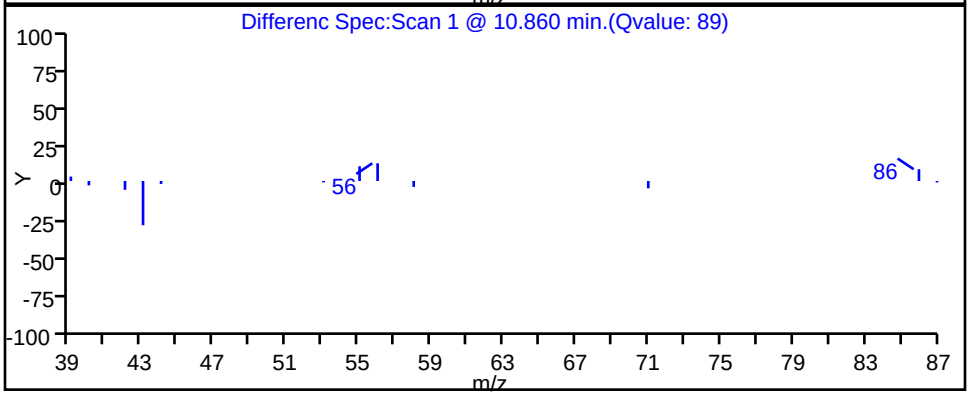












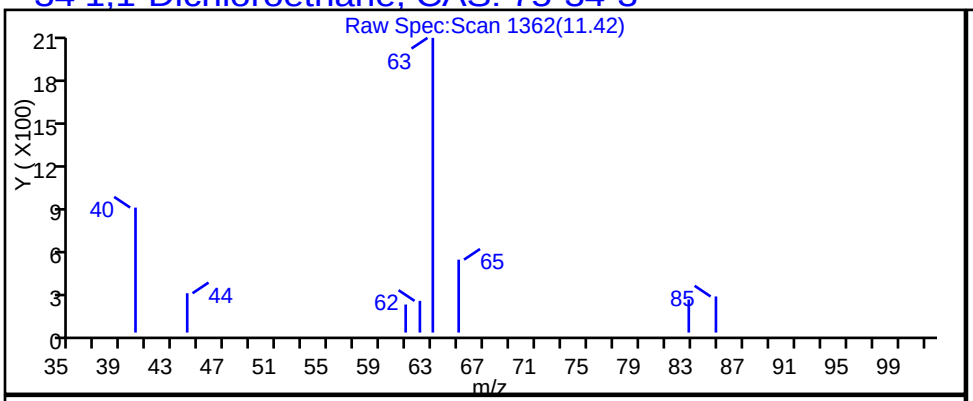
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

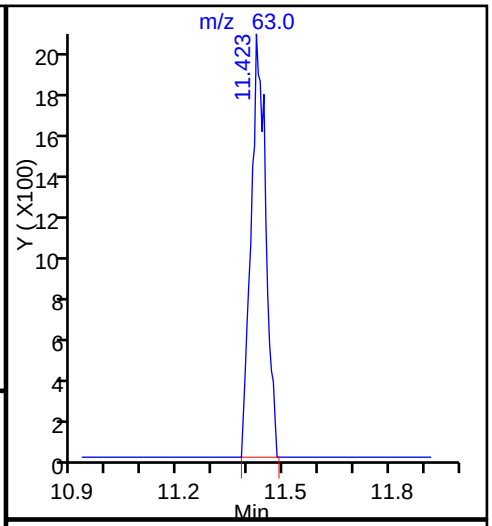
TestAmerica Burlington

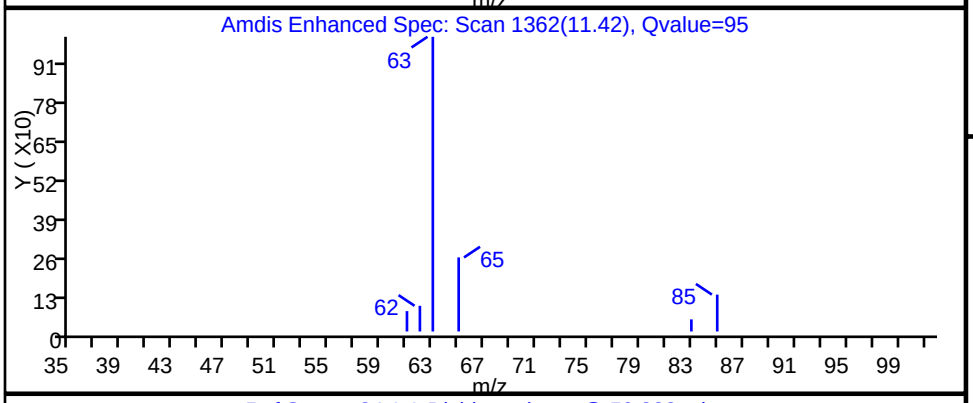
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

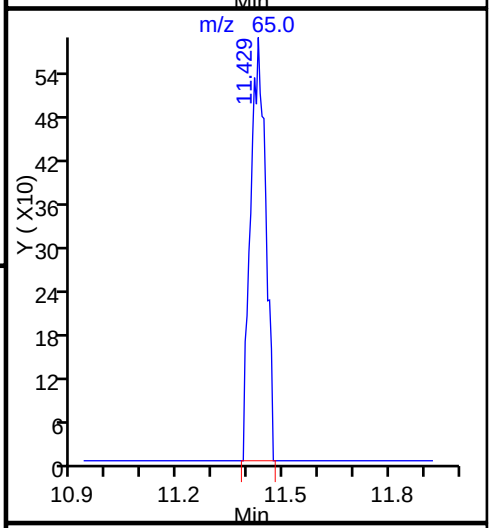
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

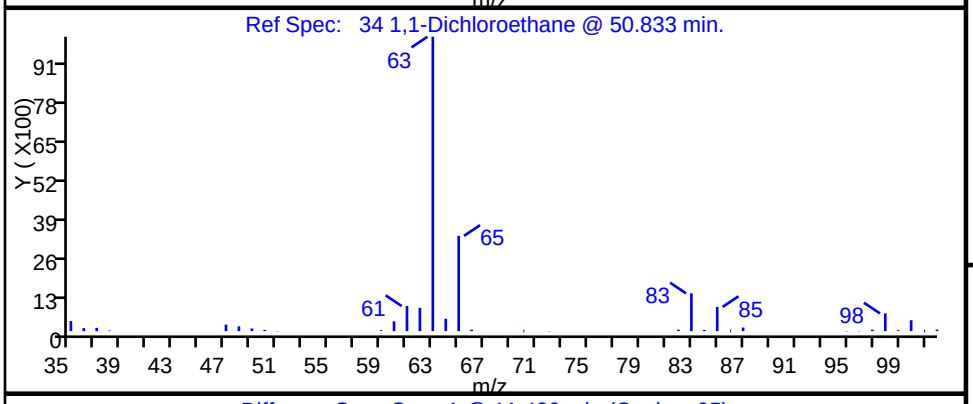
34 1,1-Dichloroethane, CAS: 75-34-3

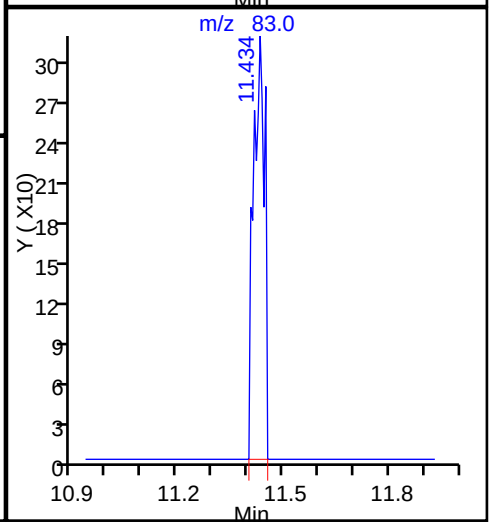


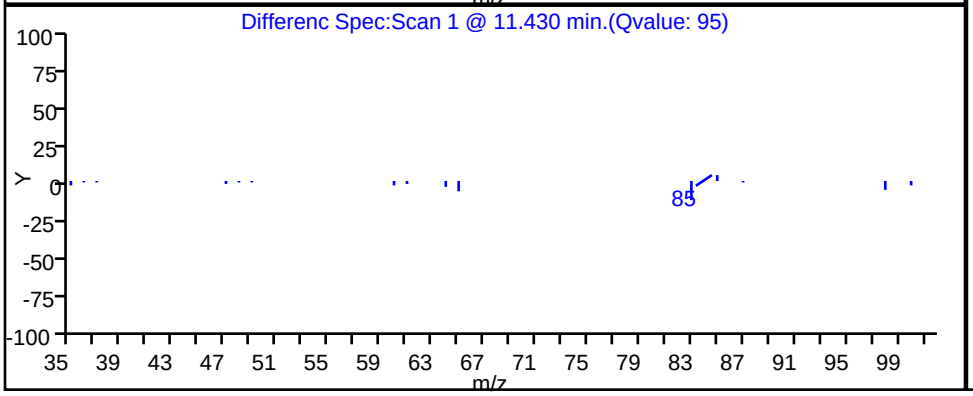










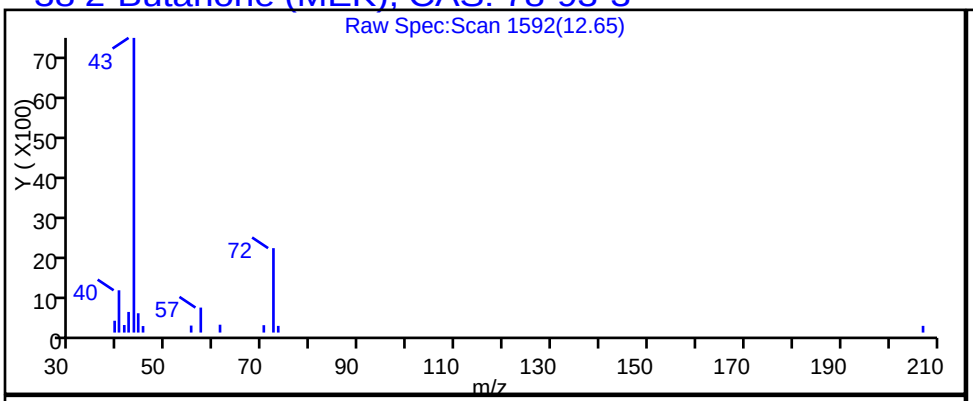


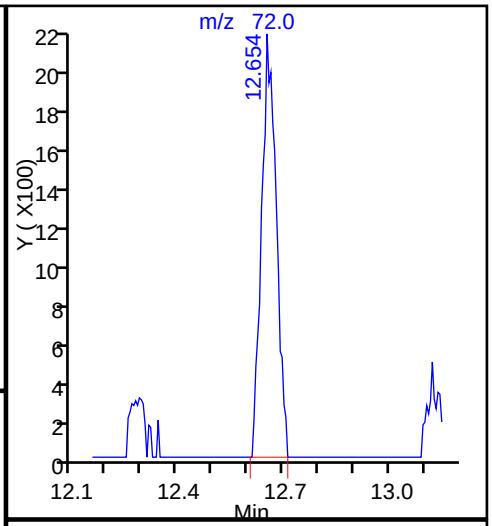
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

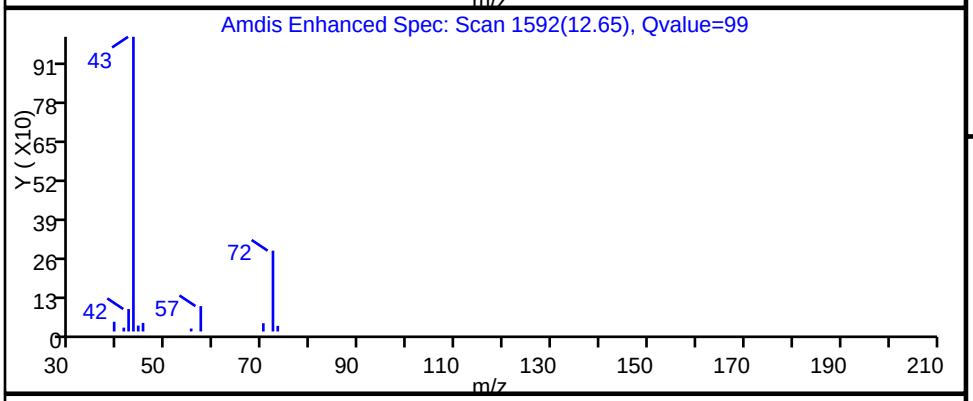
TestAmerica Burlington

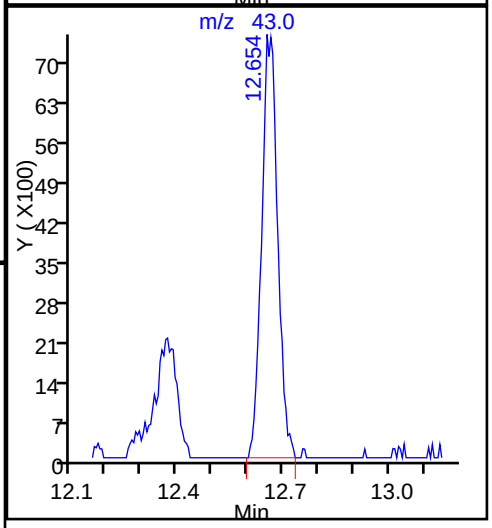
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

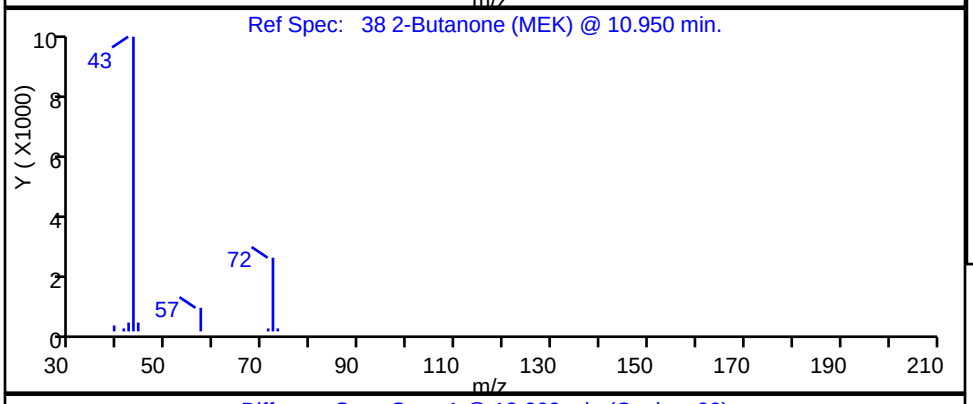
38 2-Butanone (MEK), CAS: 78-93-3

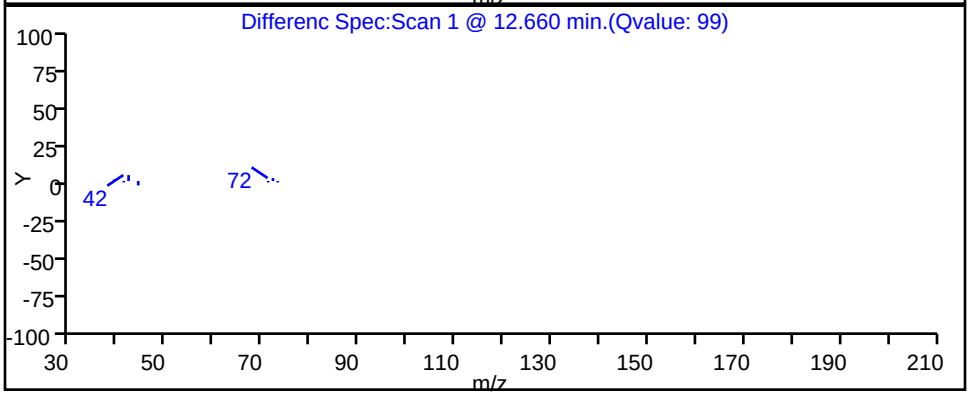










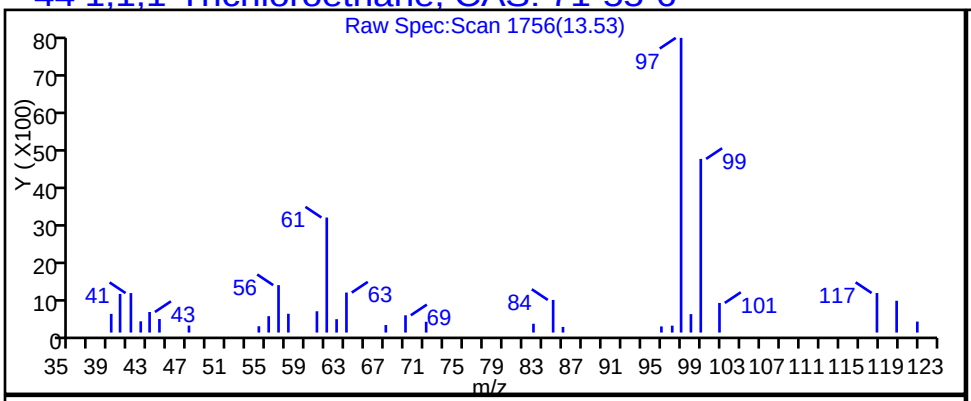


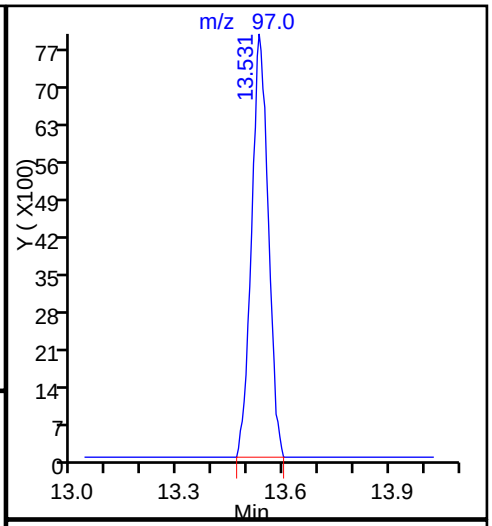
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

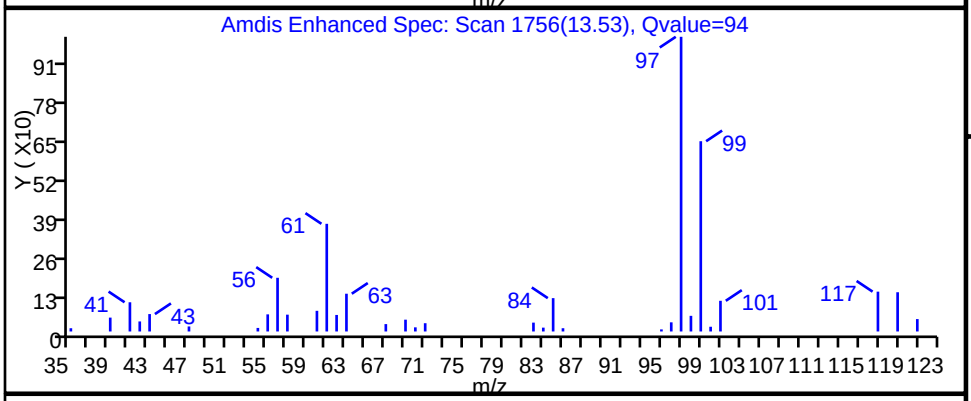
TestAmerica Burlington

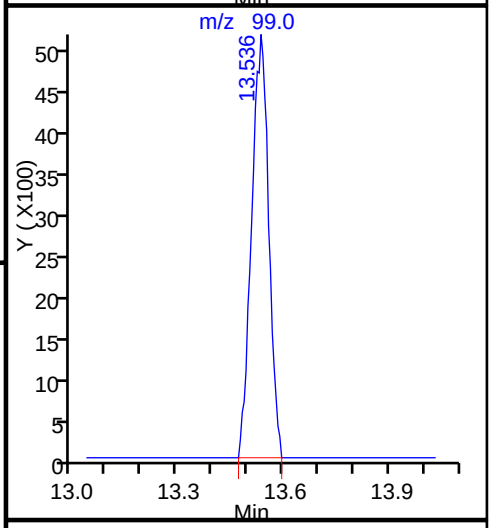
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

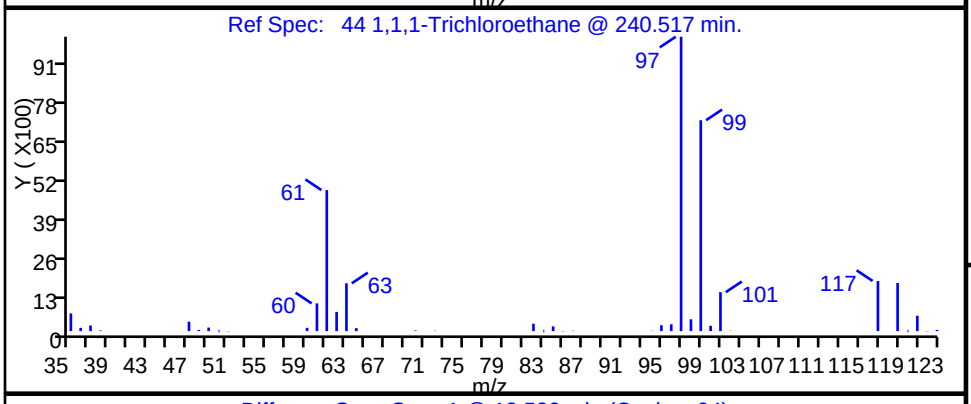
44 1,1,1-Trichloroethane, CAS: 71-55-6

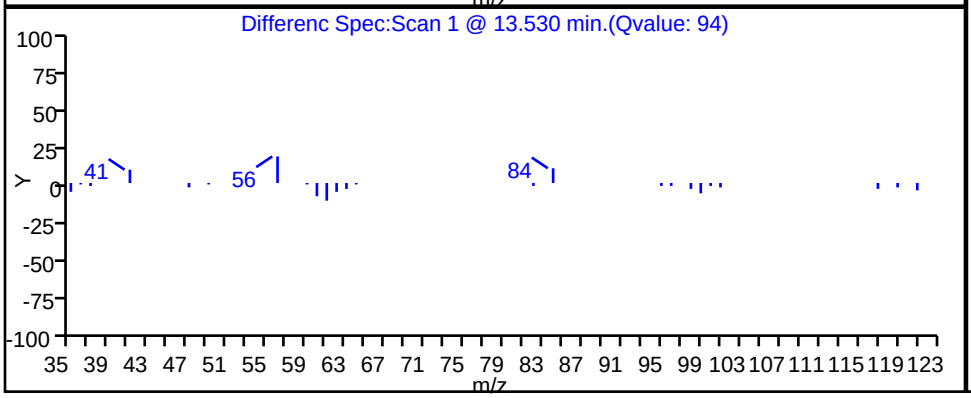


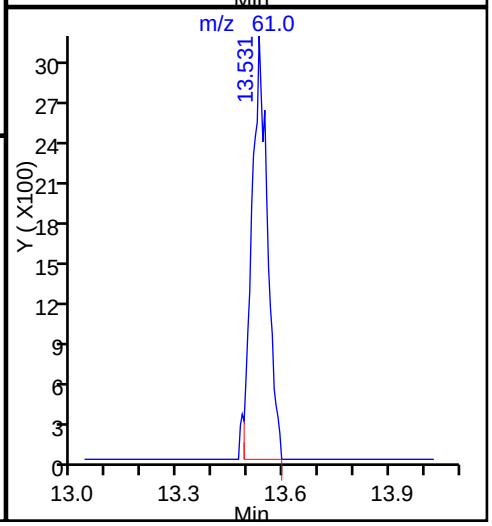










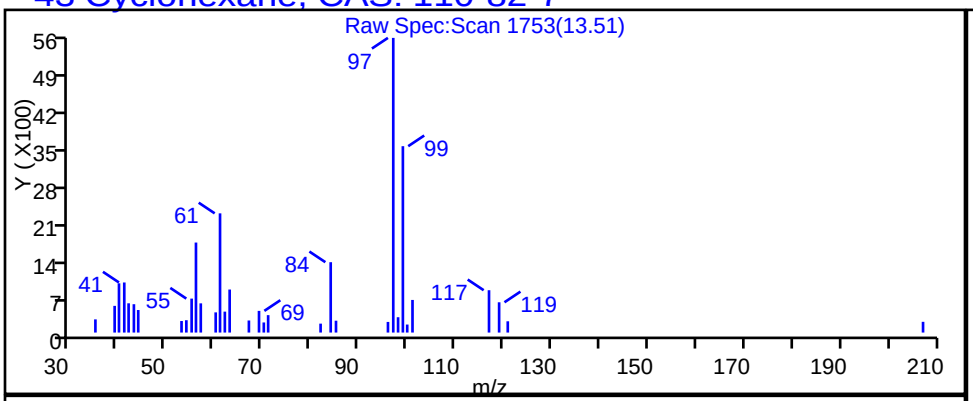


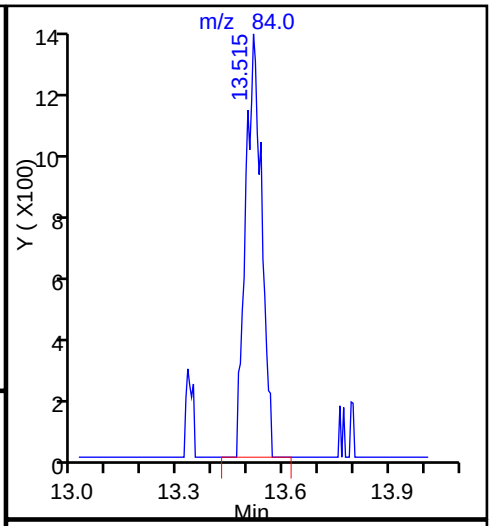
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

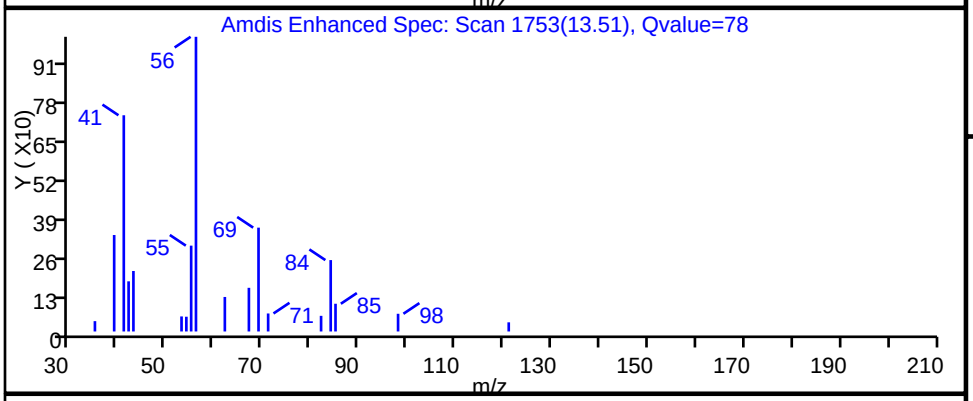
TestAmerica Burlington

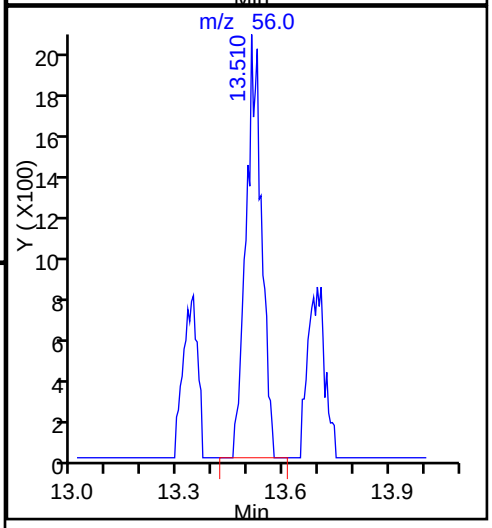
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

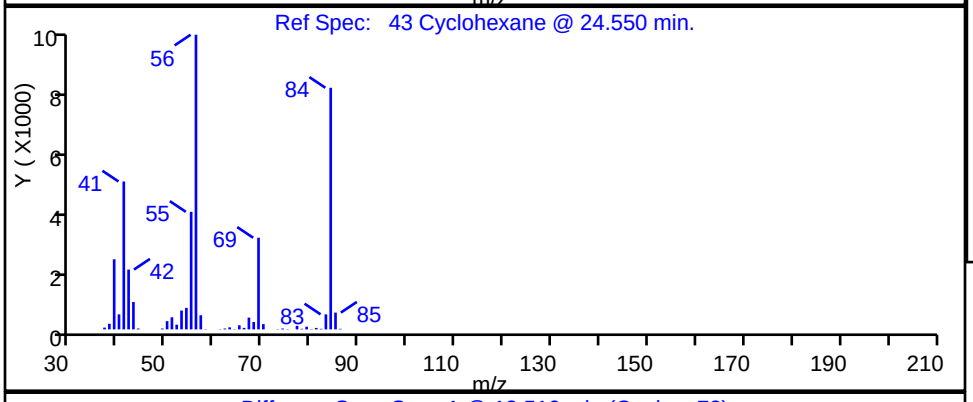
43 Cyclohexane, CAS: 110-82-7

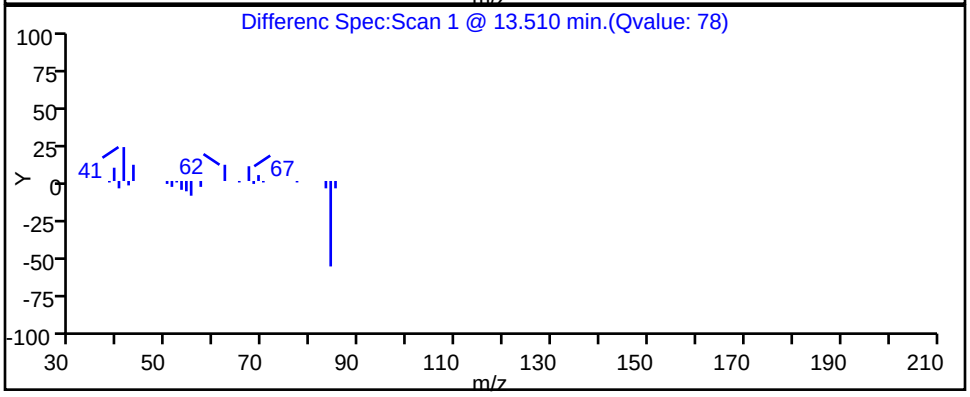










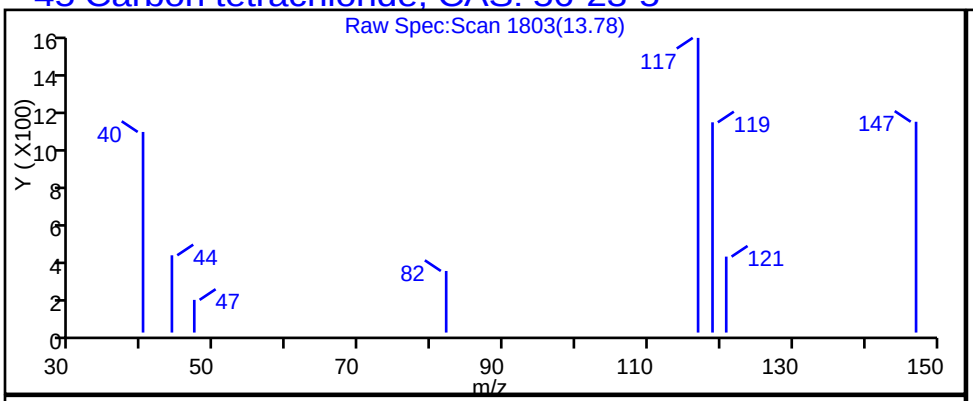


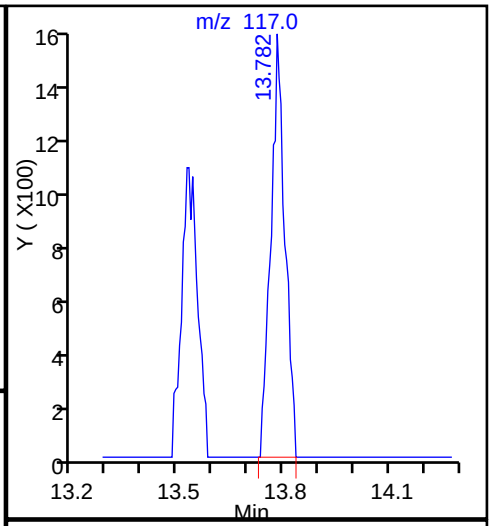
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

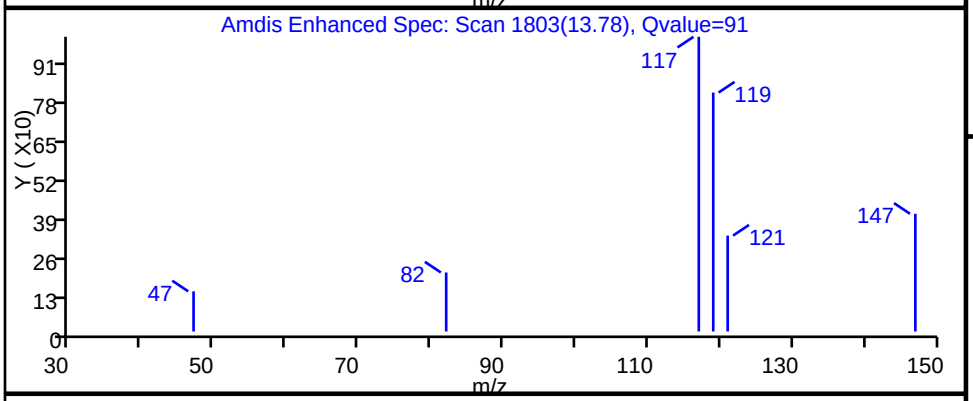
TestAmerica Burlington

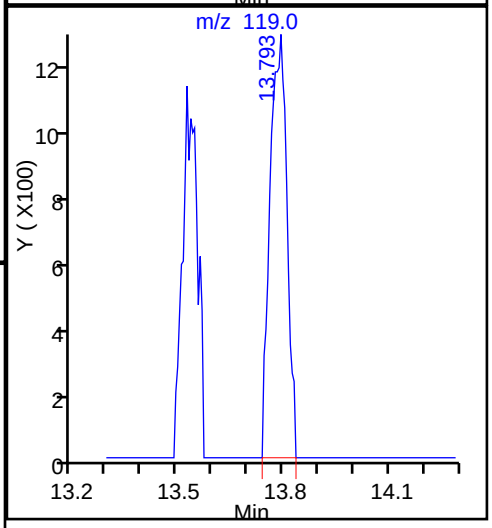
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

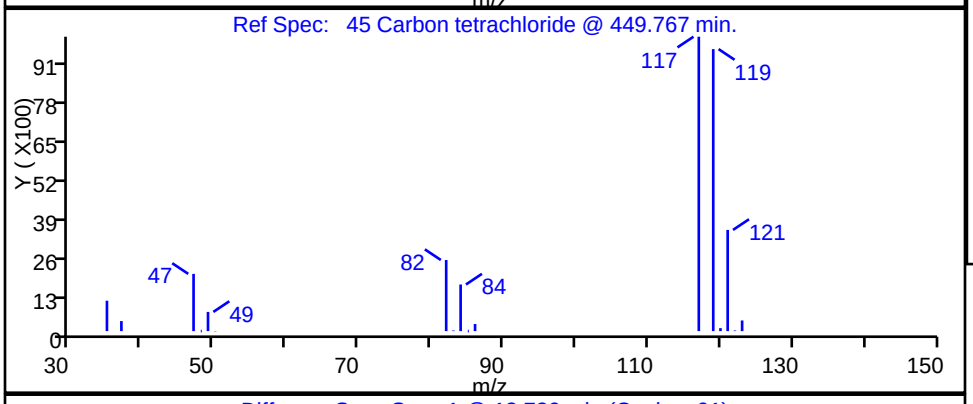
45 Carbon tetrachloride, CAS: 56-23-5

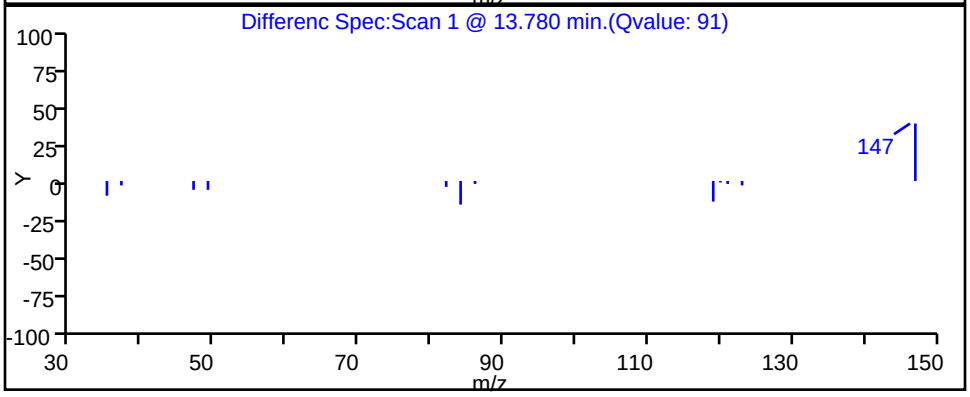












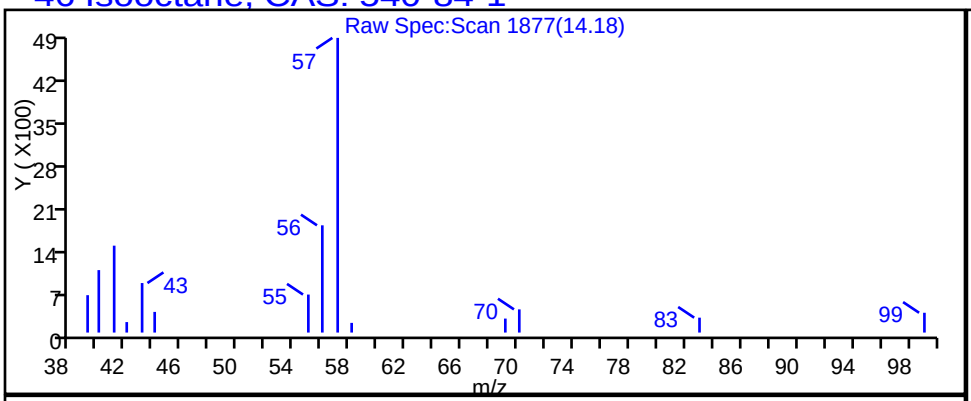
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

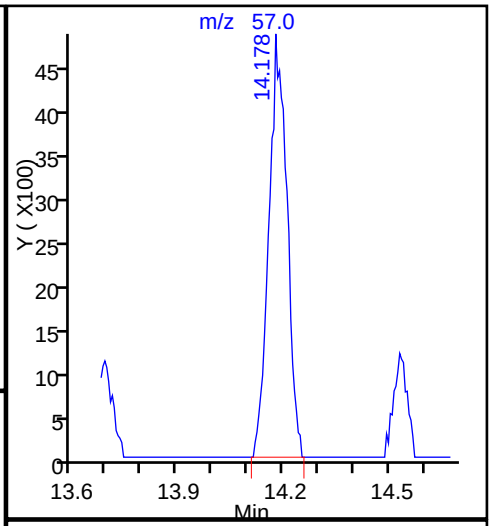
TestAmerica Burlington

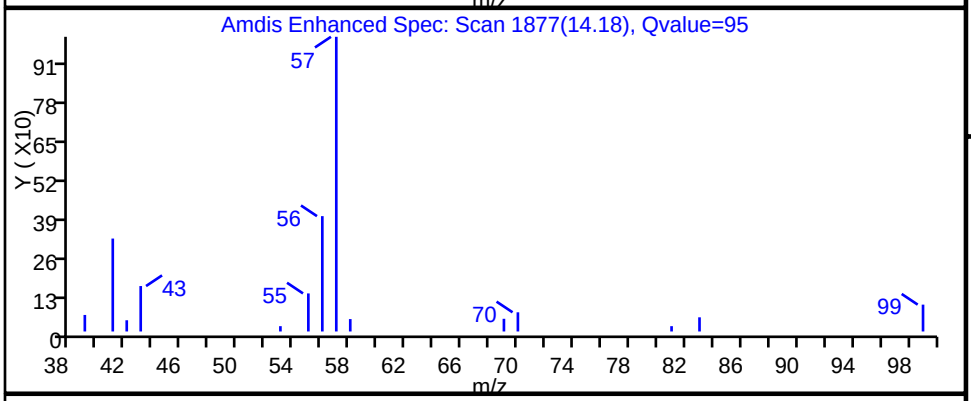
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

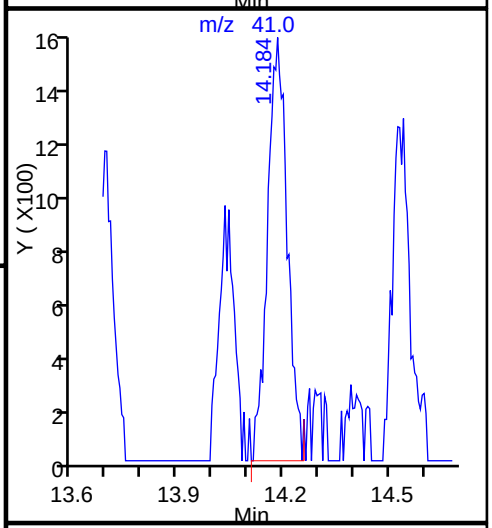
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

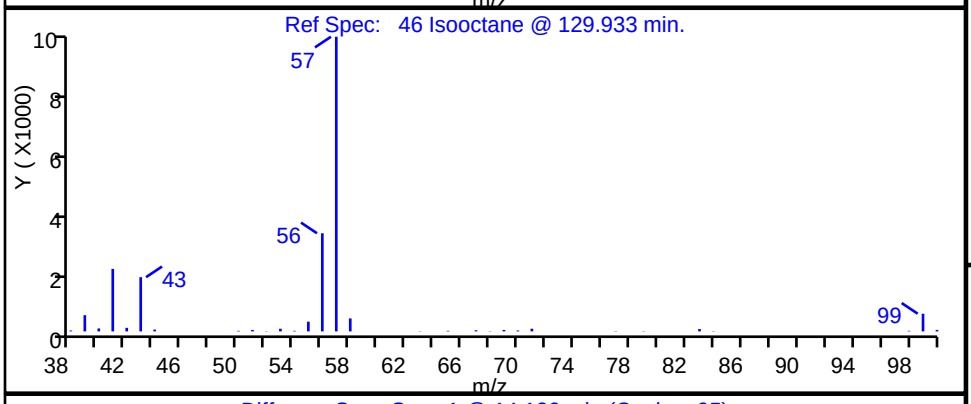
46 Isooctane, CAS: 540-84-1

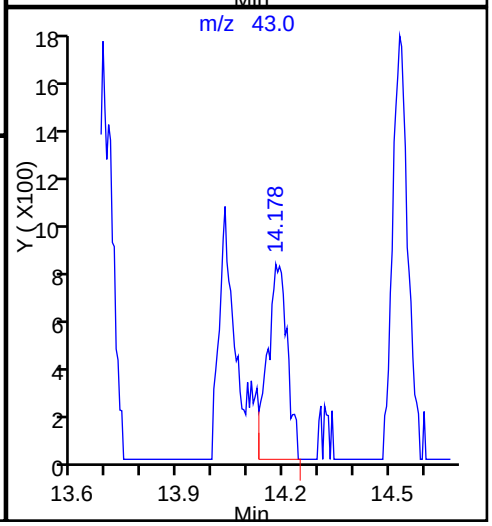


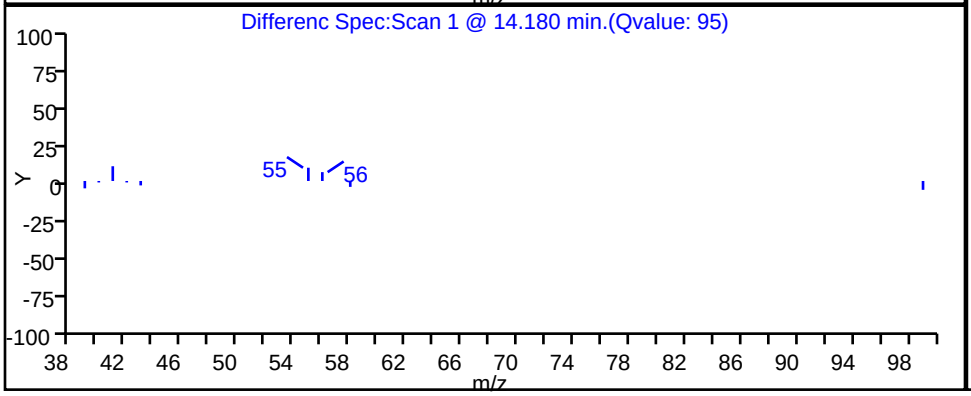












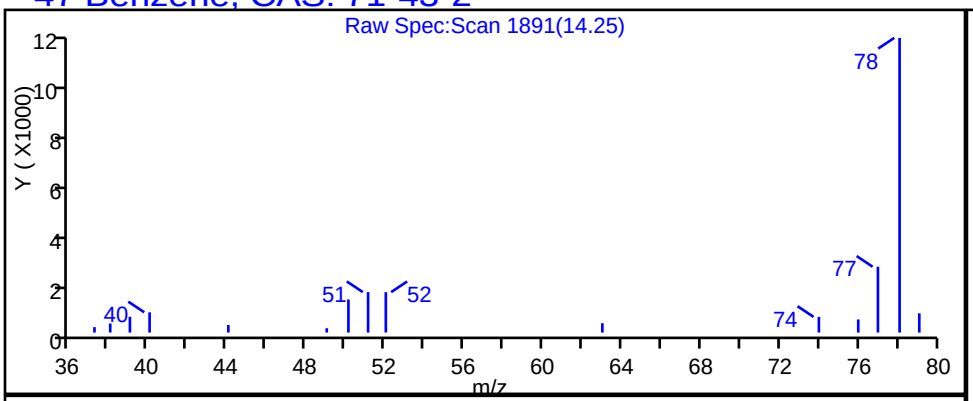
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

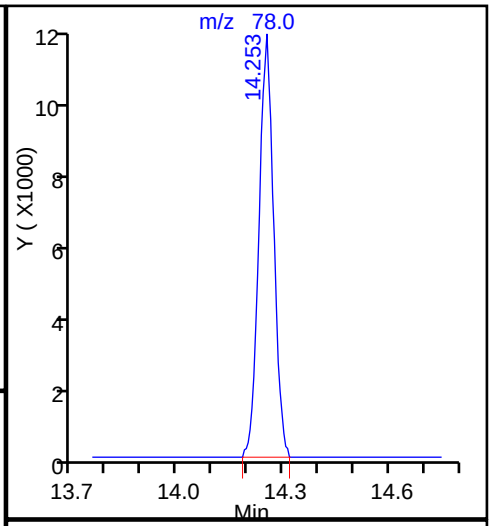
TestAmerica Burlington

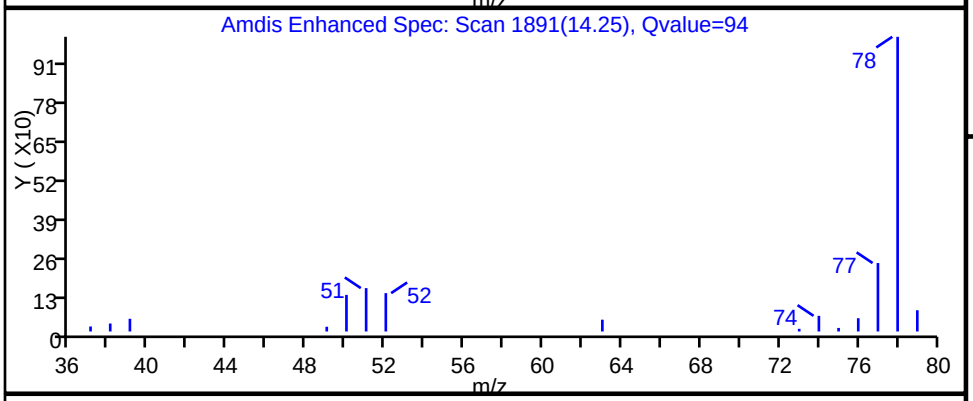
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

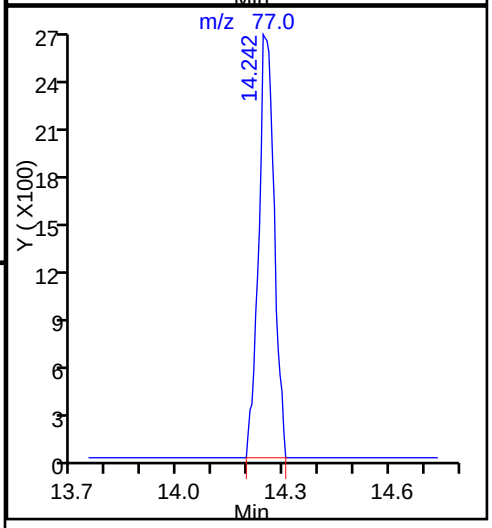
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

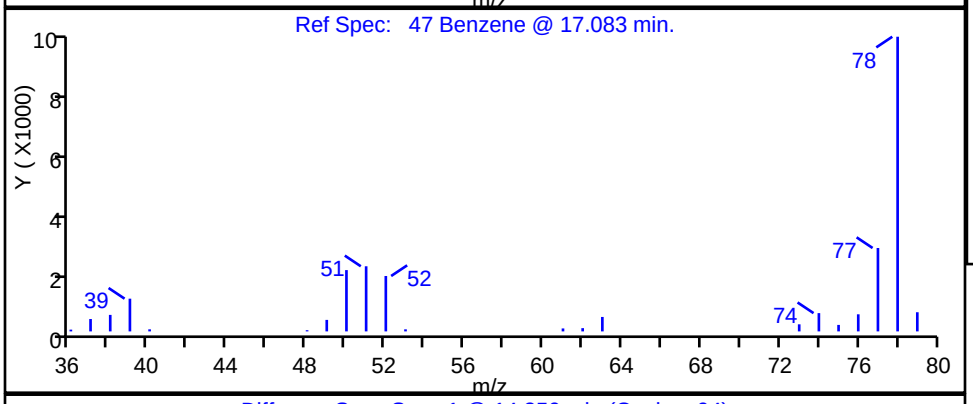
47 Benzene, CAS: 71-43-2

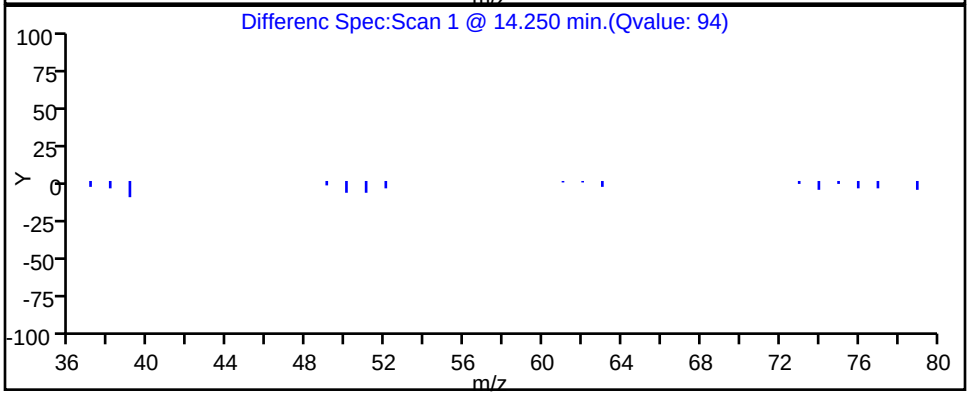












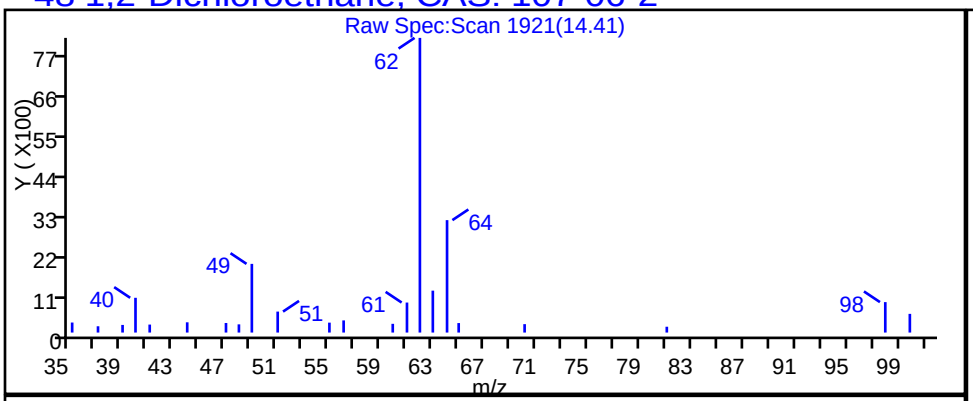
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

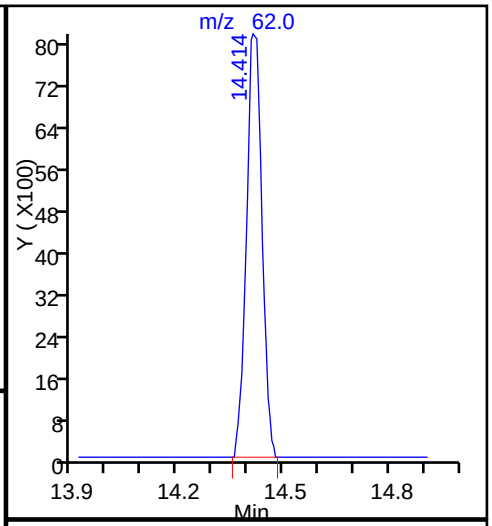
TestAmerica Burlington

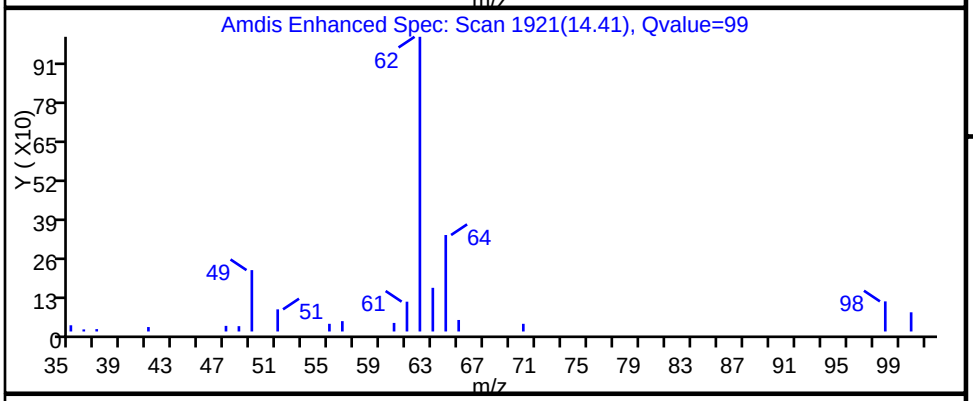
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

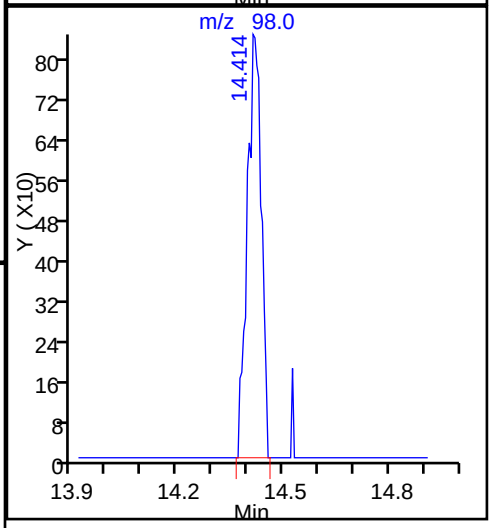
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

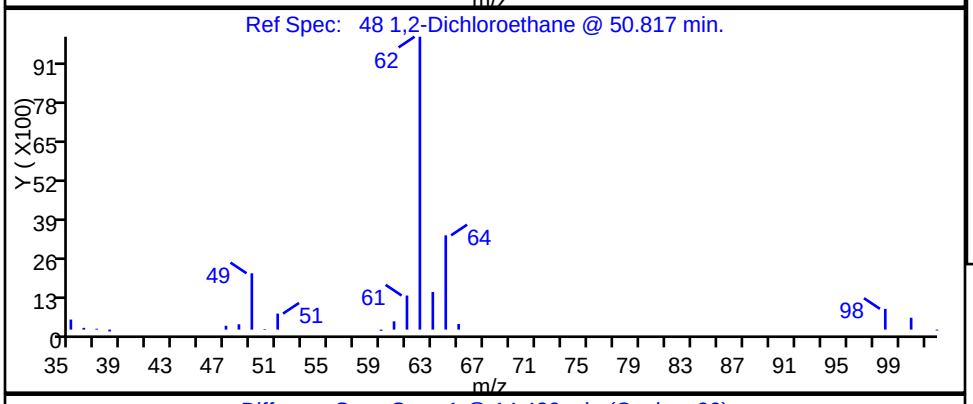
48 1,2-Dichloroethane, CAS: 107-06-2

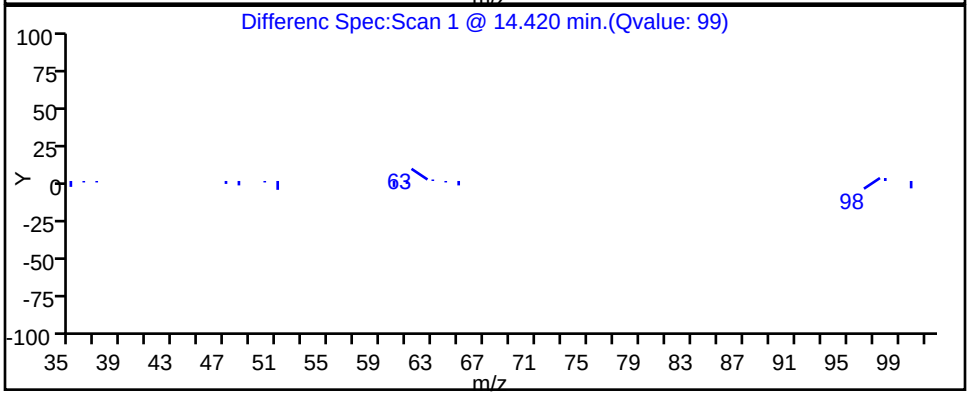












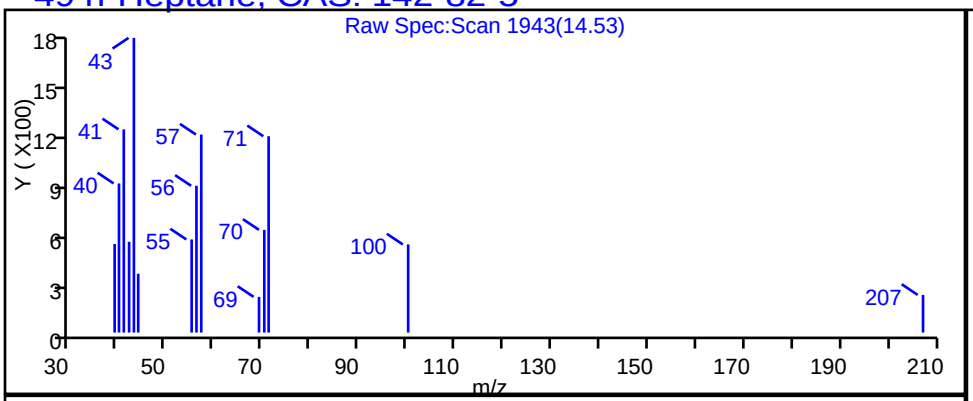
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

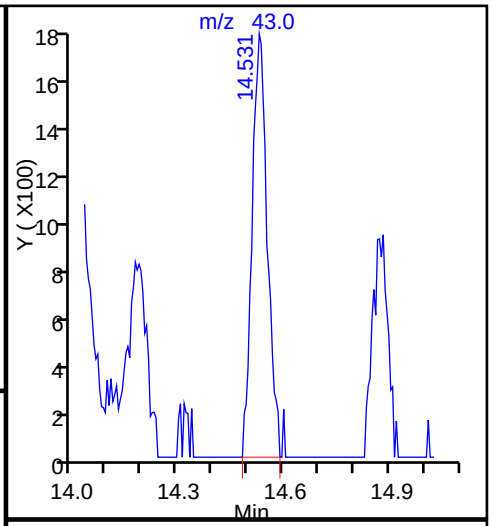
TestAmerica Burlington

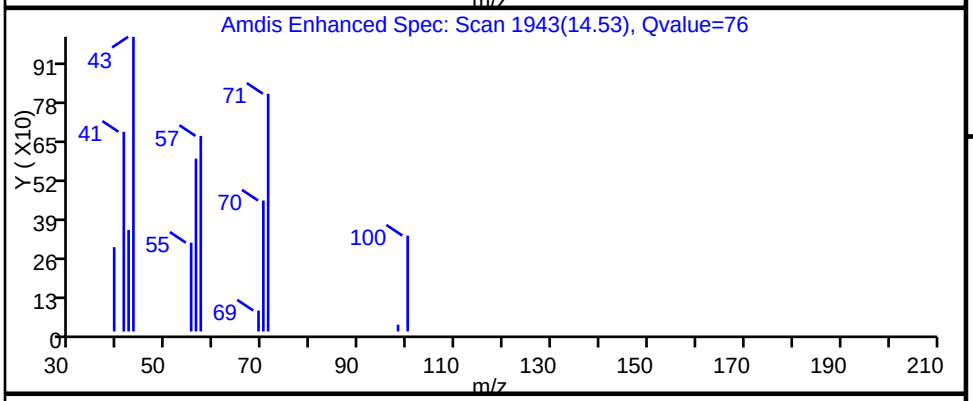
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

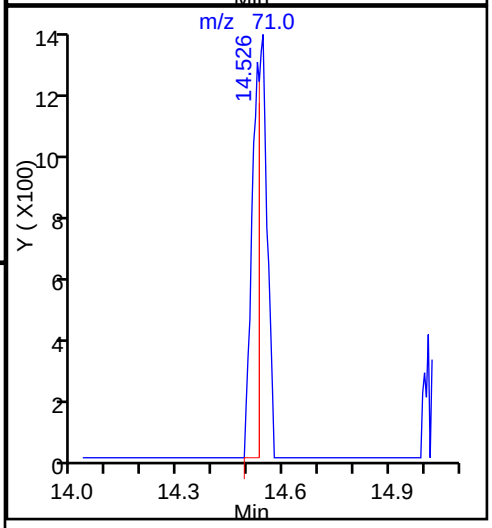
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

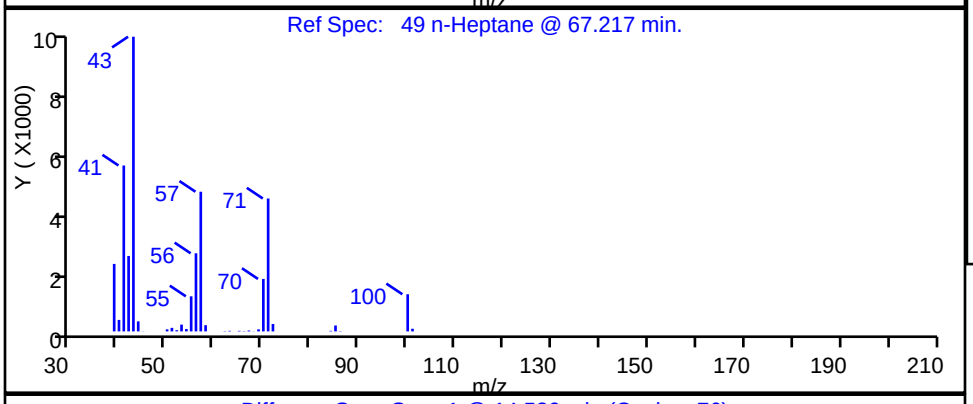
49 n-Heptane, CAS: 142-82-5

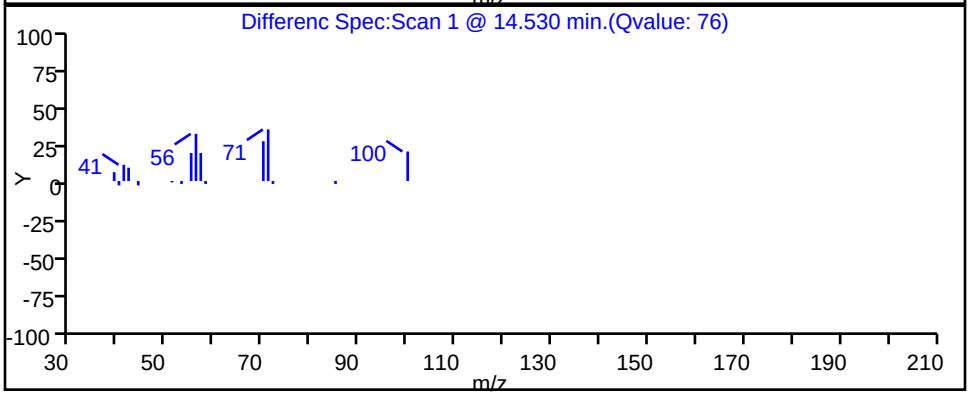










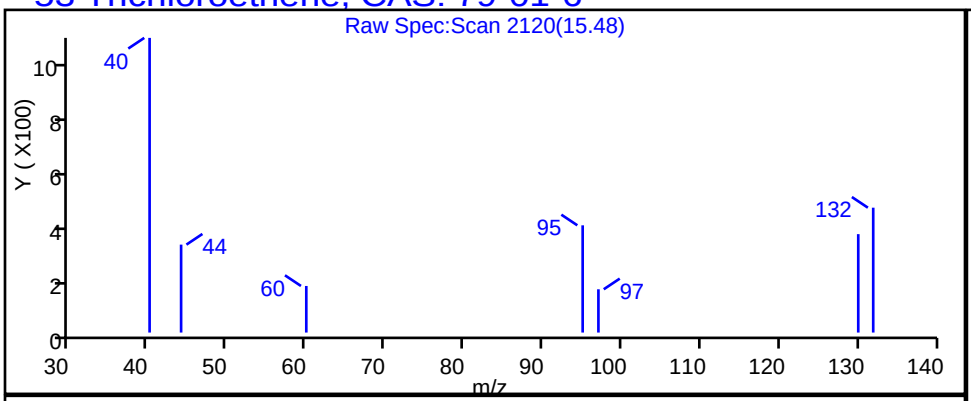


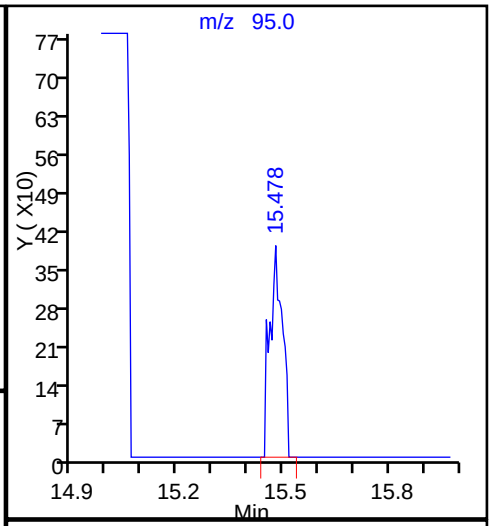
Report Date: 30-Sep-2015 14:18:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

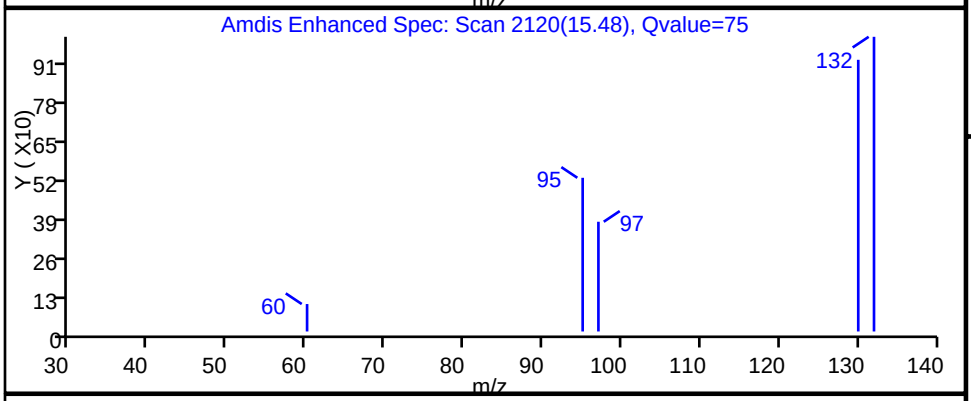
TestAmerica Burlington

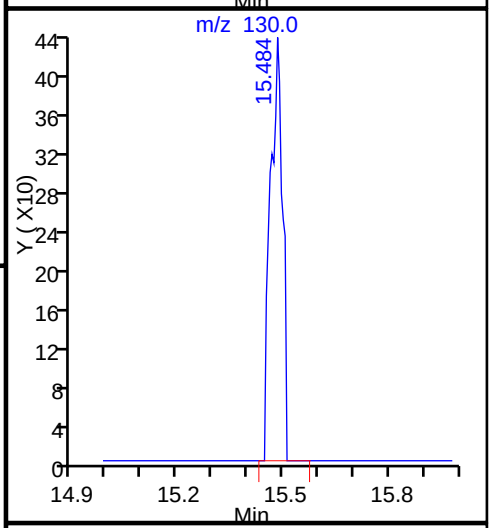
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

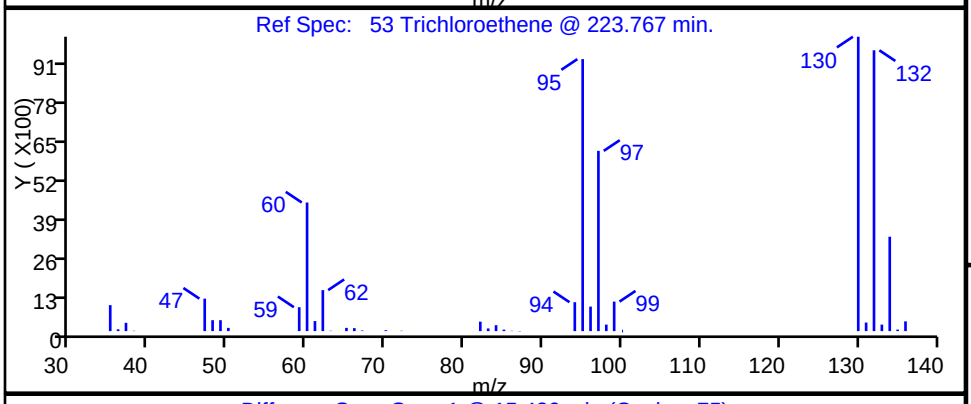
53 Trichloroethene, CAS: 79-01-6

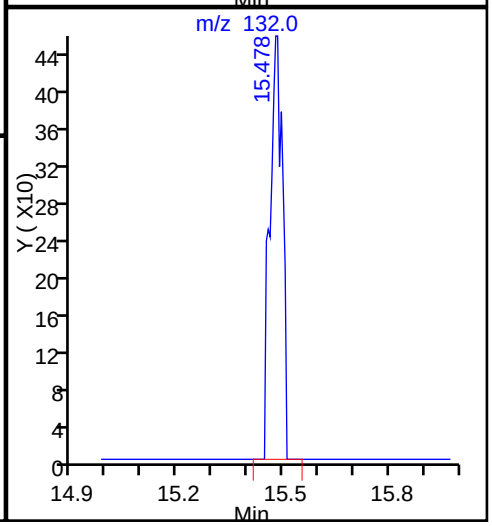


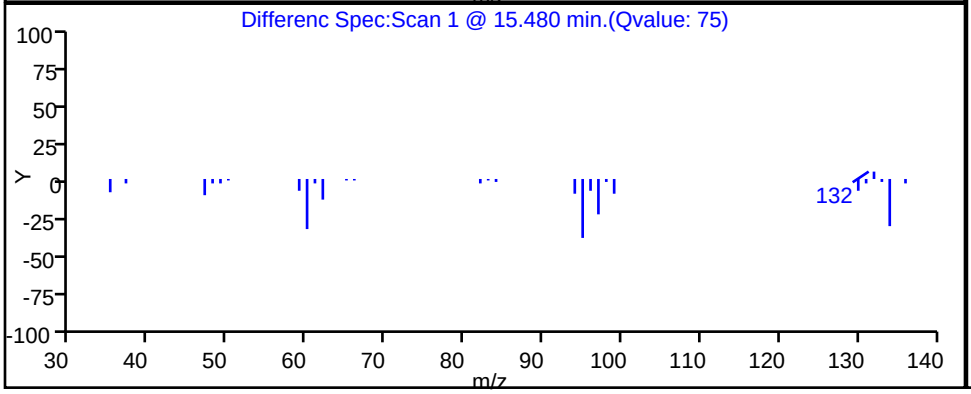












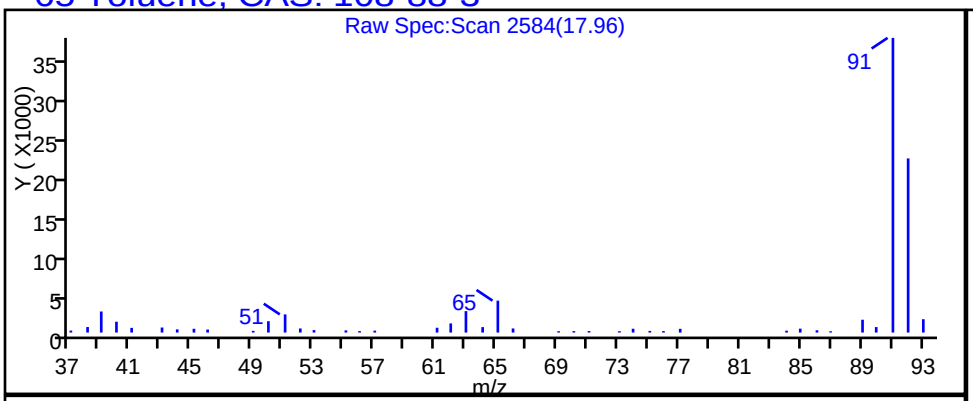
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

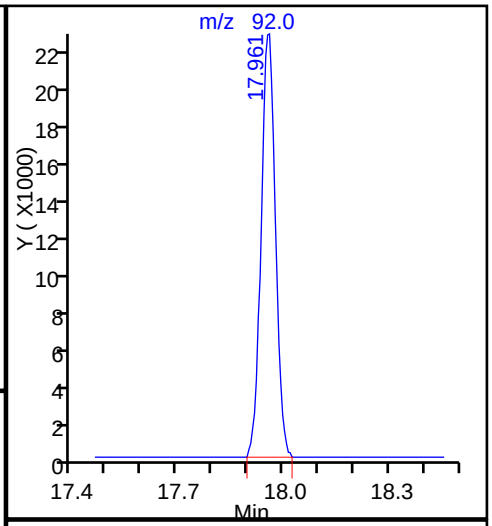
TestAmerica Burlington

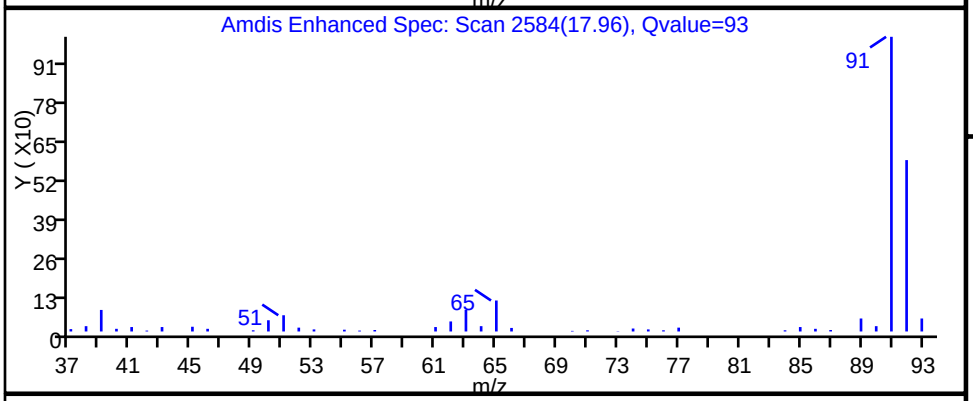
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

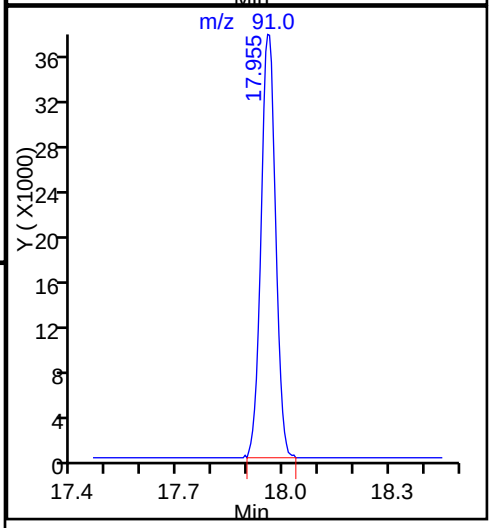
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

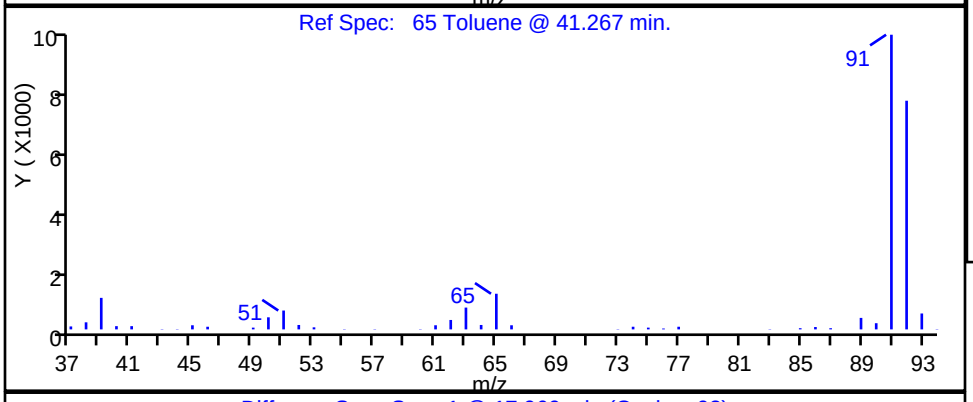
65 Toluene, CAS: 108-88-3

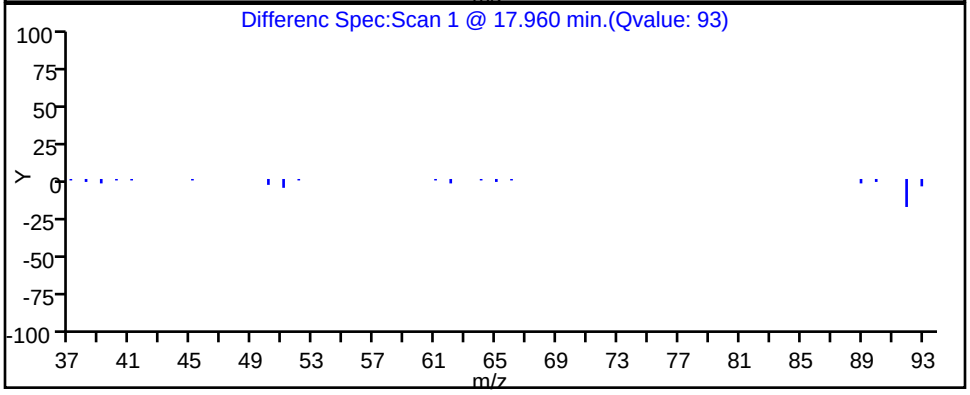












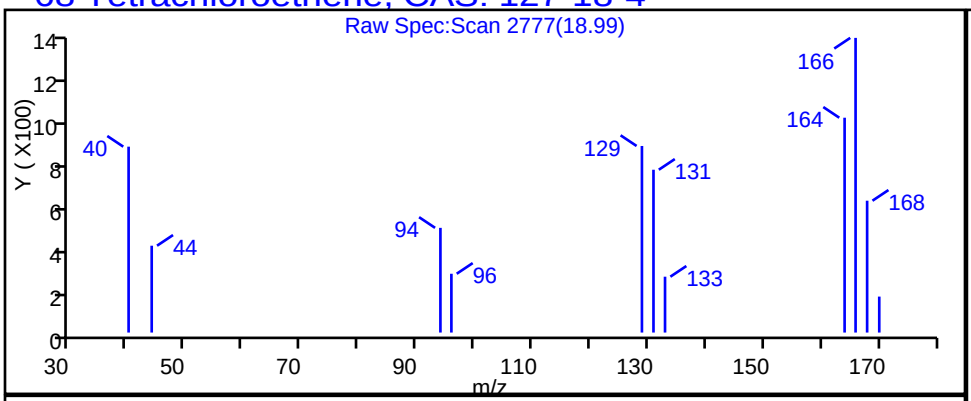
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

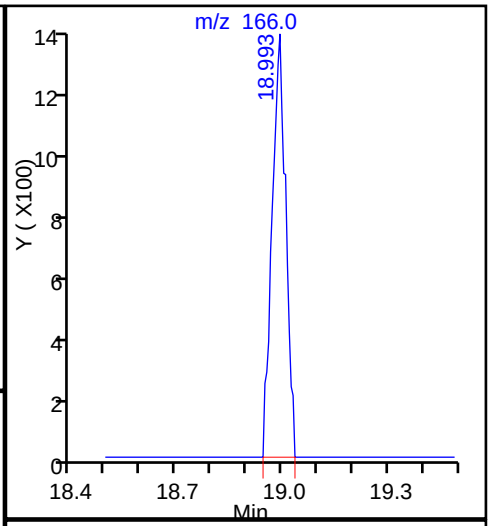
TestAmerica Burlington

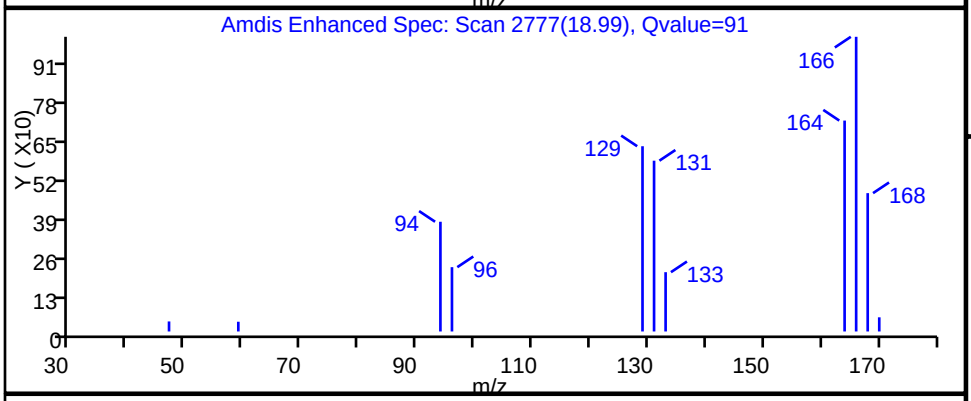
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

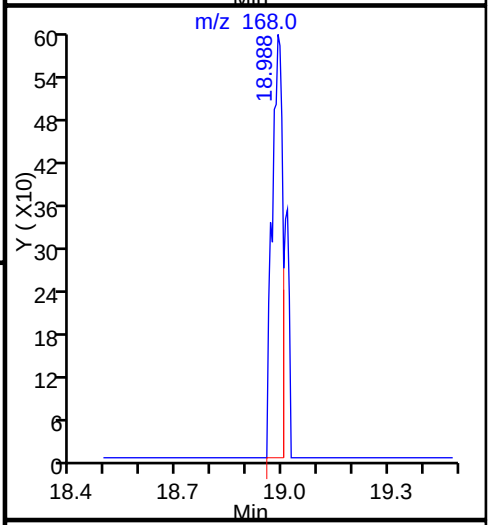
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

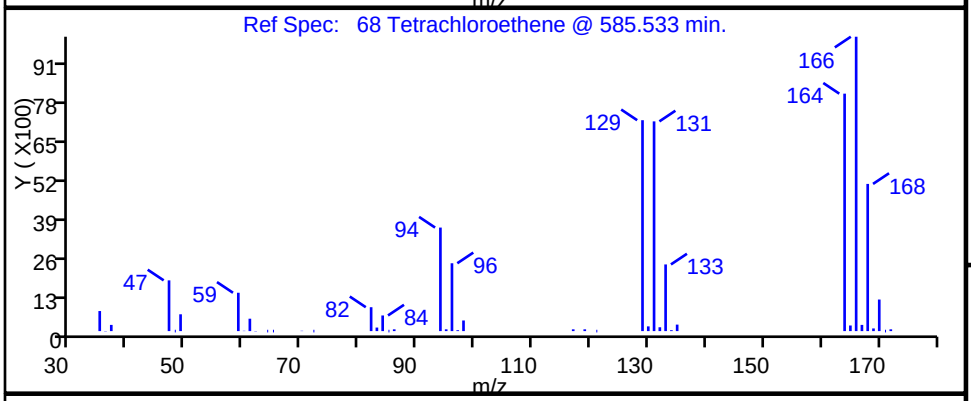
68 Tetrachloroethene, CAS: 127-18-4

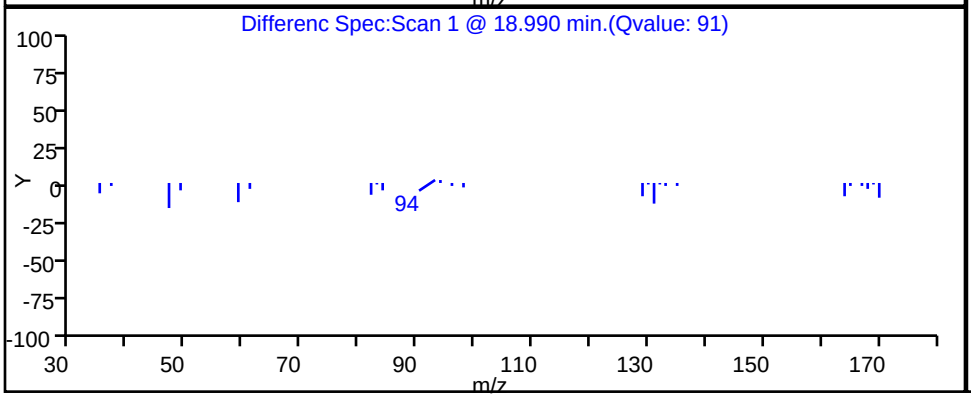


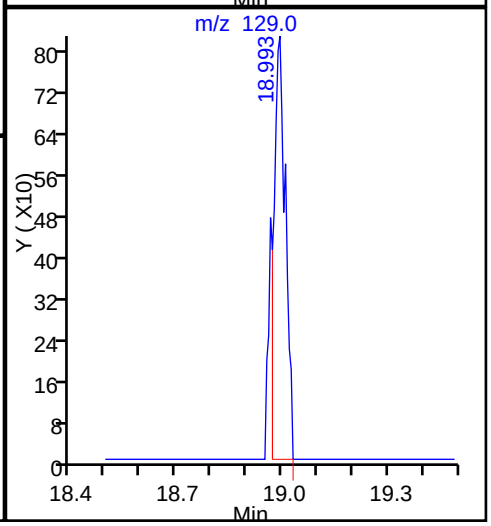












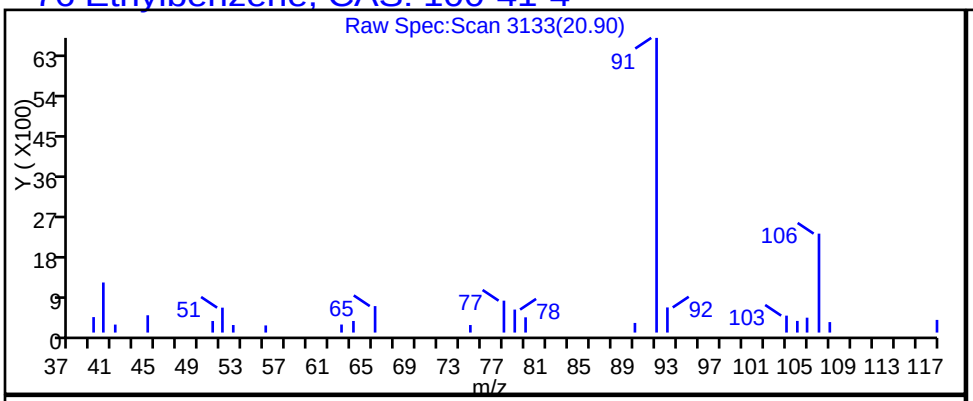
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

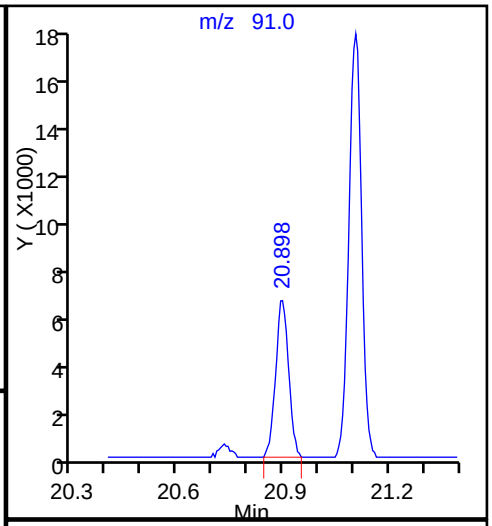
TestAmerica Burlington

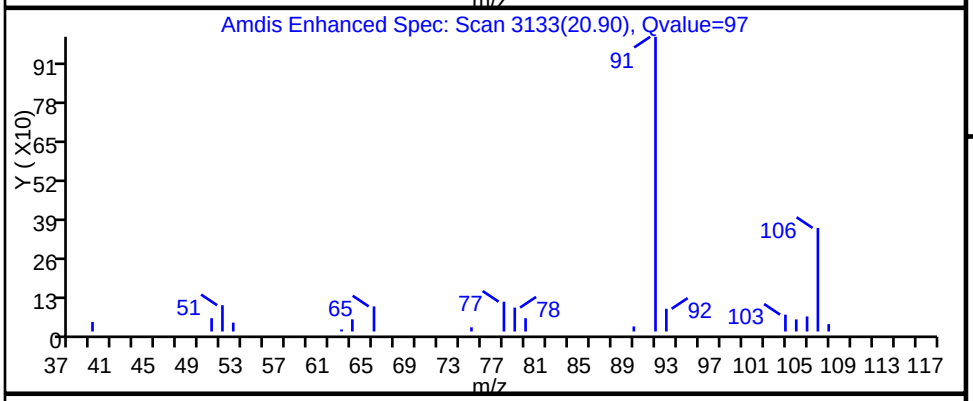
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

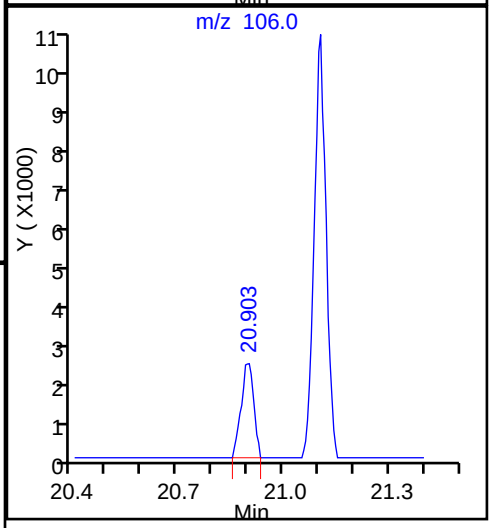
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

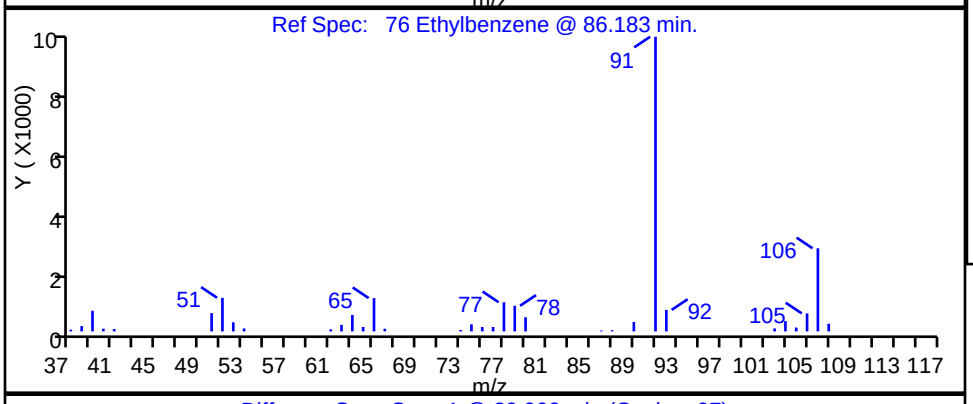
76 Ethylbenzene, CAS: 100-41-4

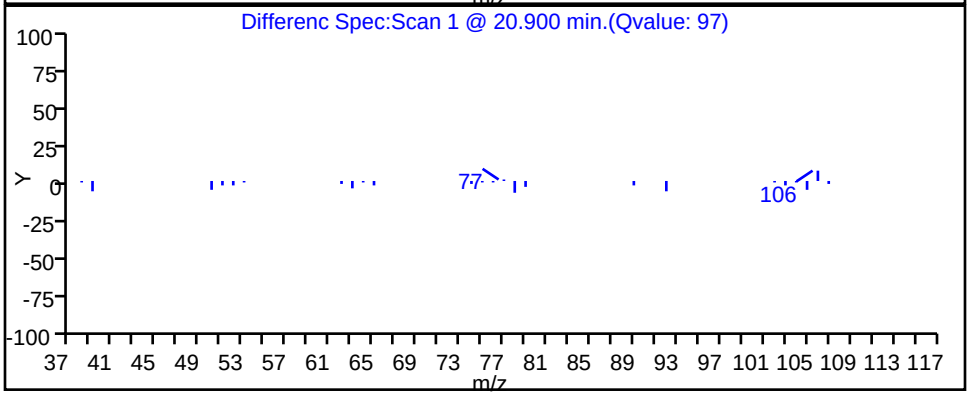










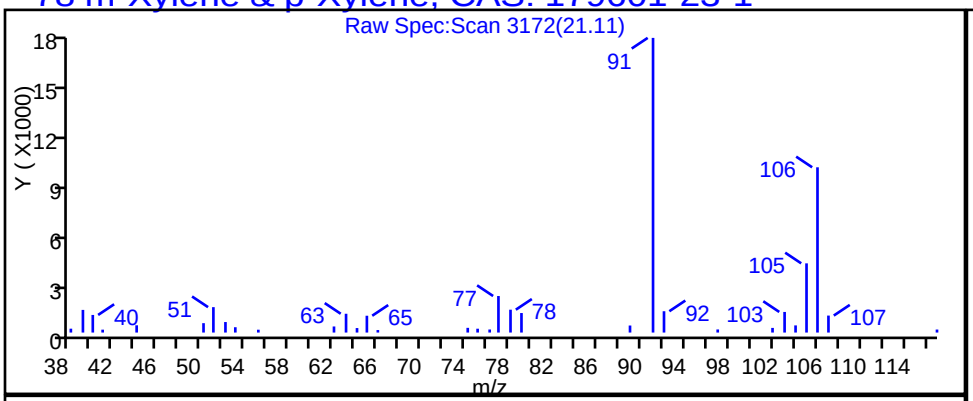


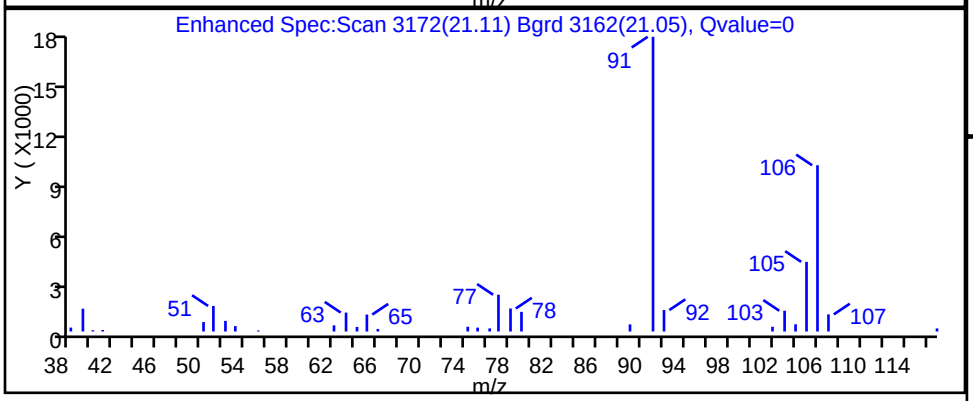
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

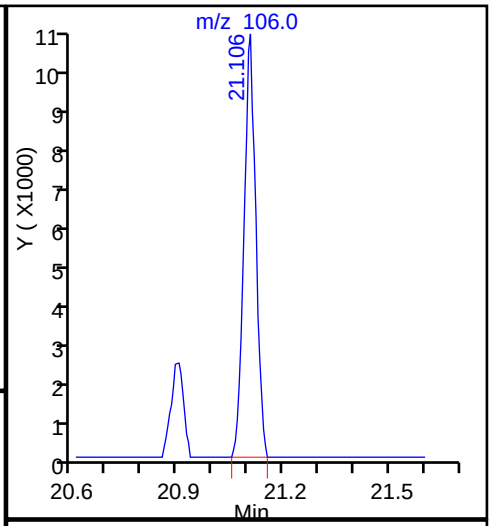
TestAmerica Burlington

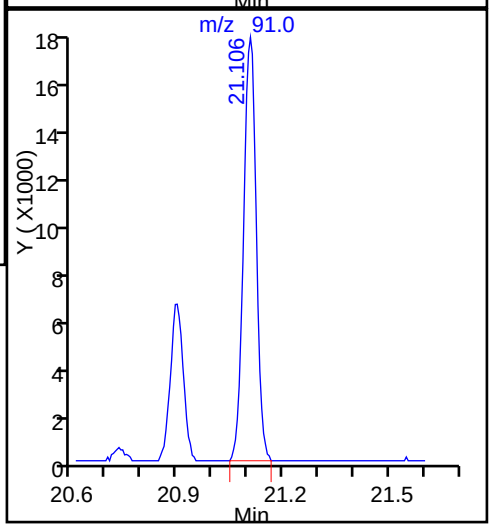
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1







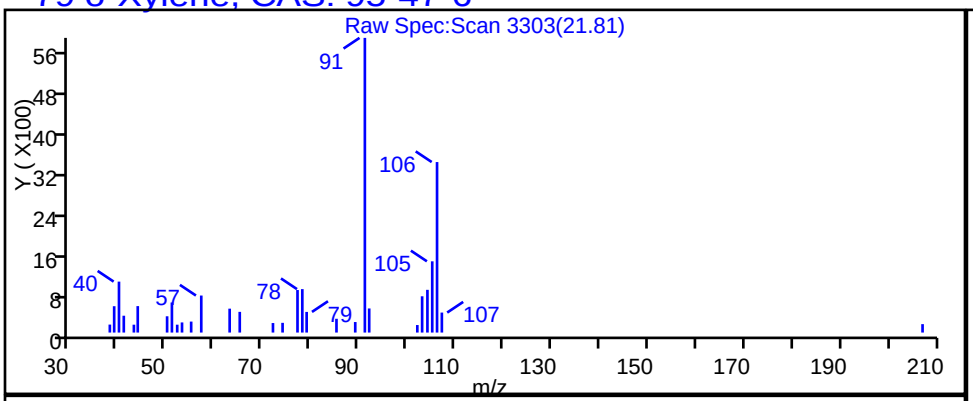


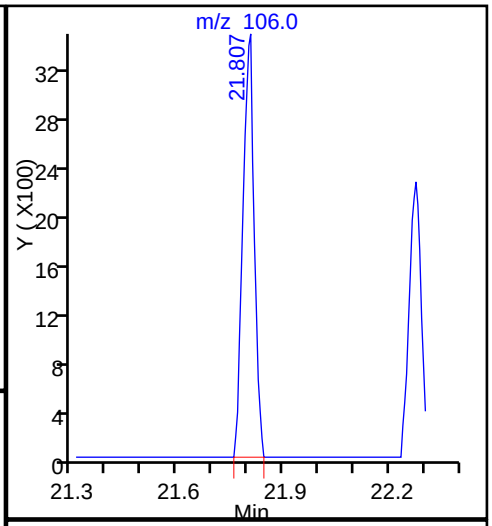
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

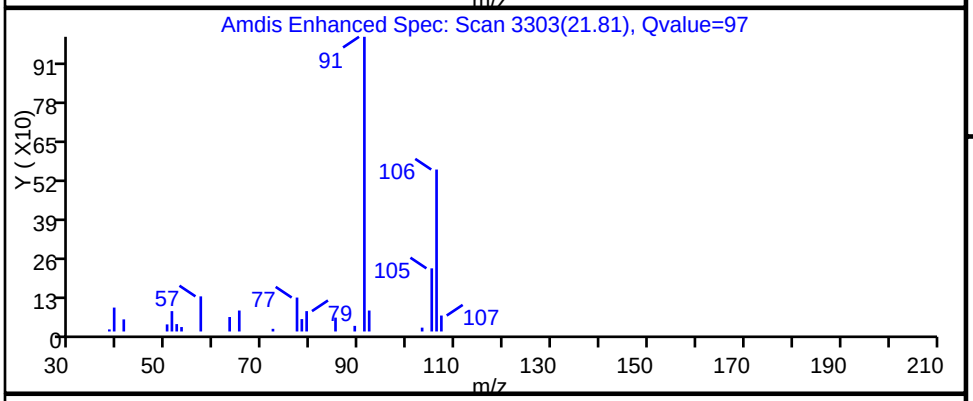
TestAmerica Burlington

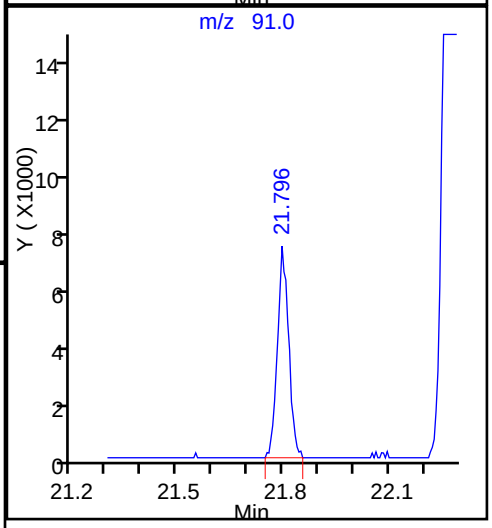
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

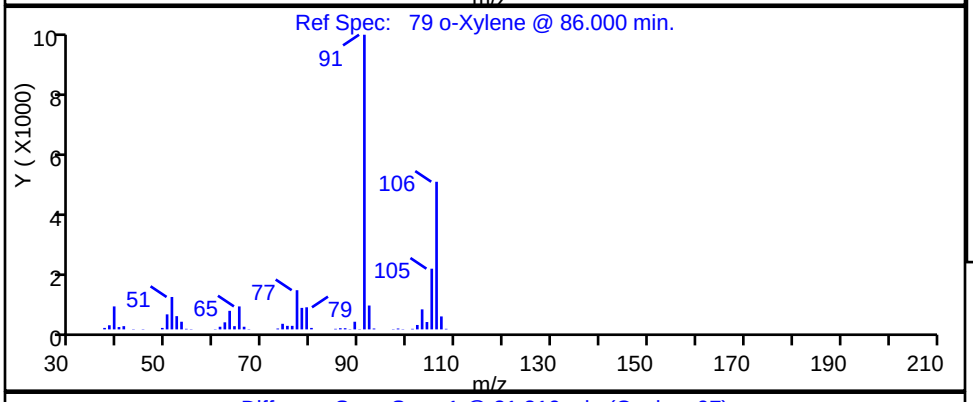
79 o-Xylene, CAS: 95-47-6

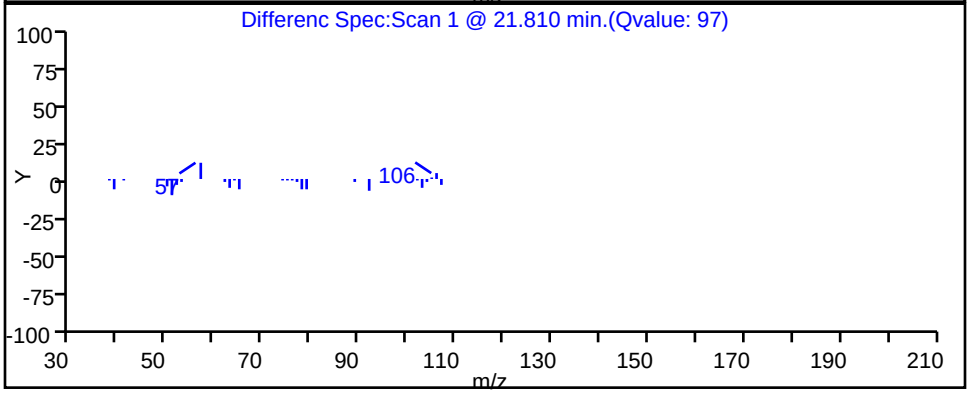












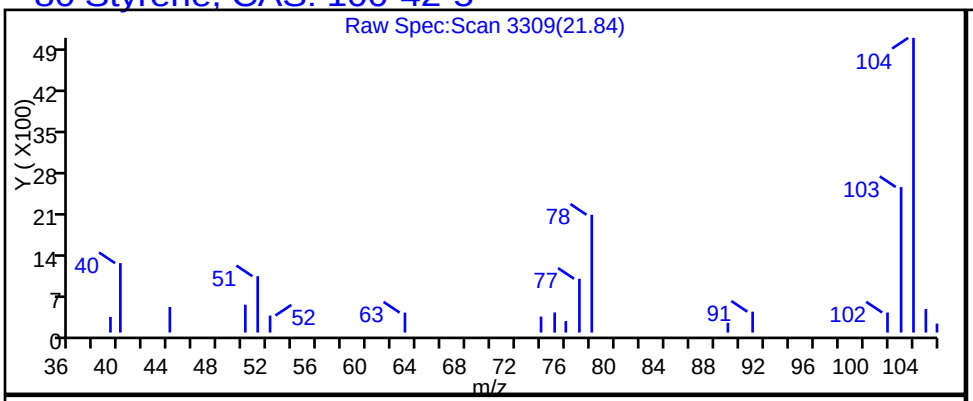
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

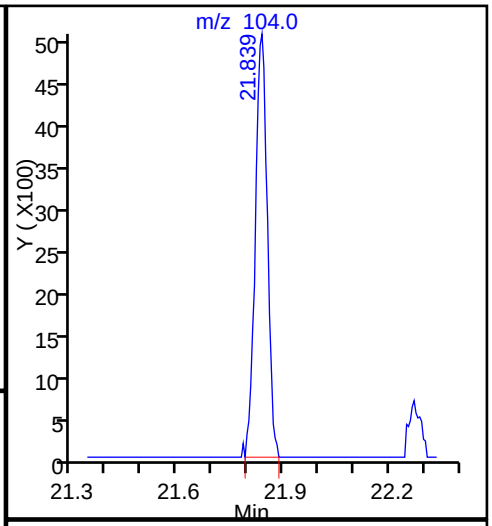
TestAmerica Burlington

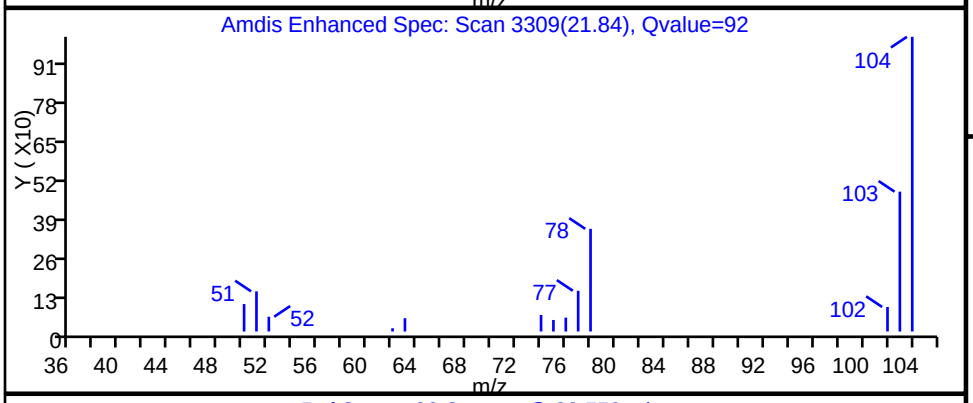
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

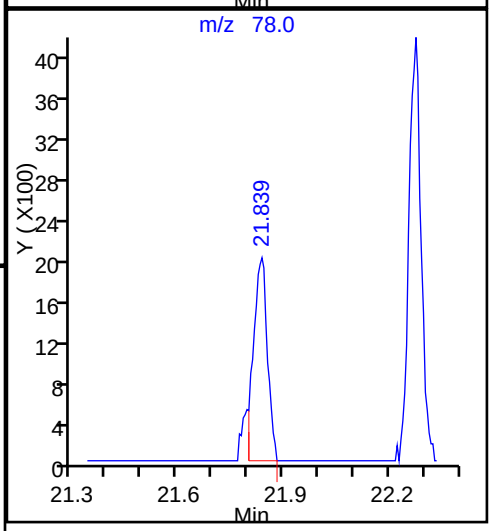
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

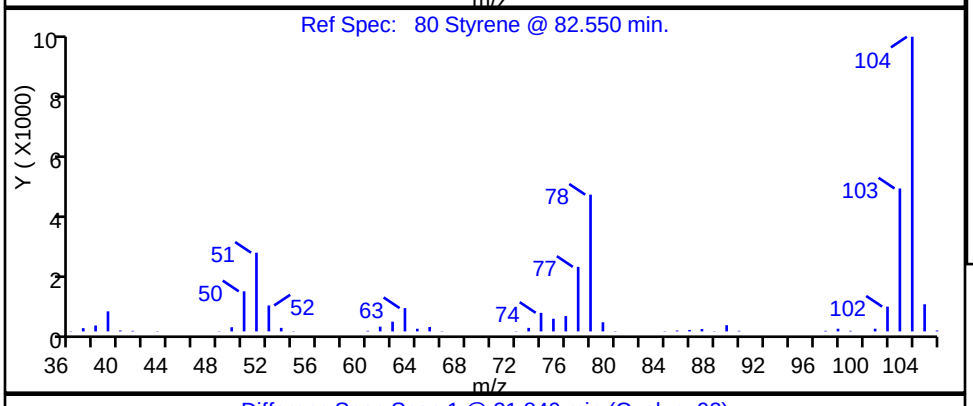
80 Styrene, CAS: 100-42-5

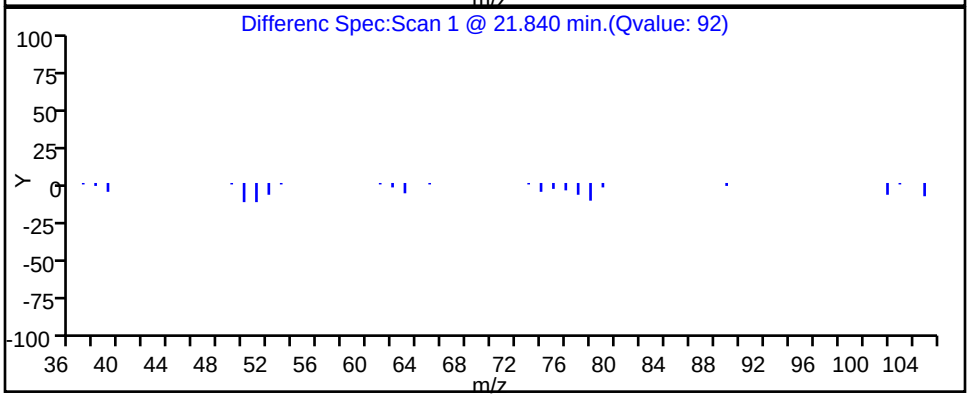










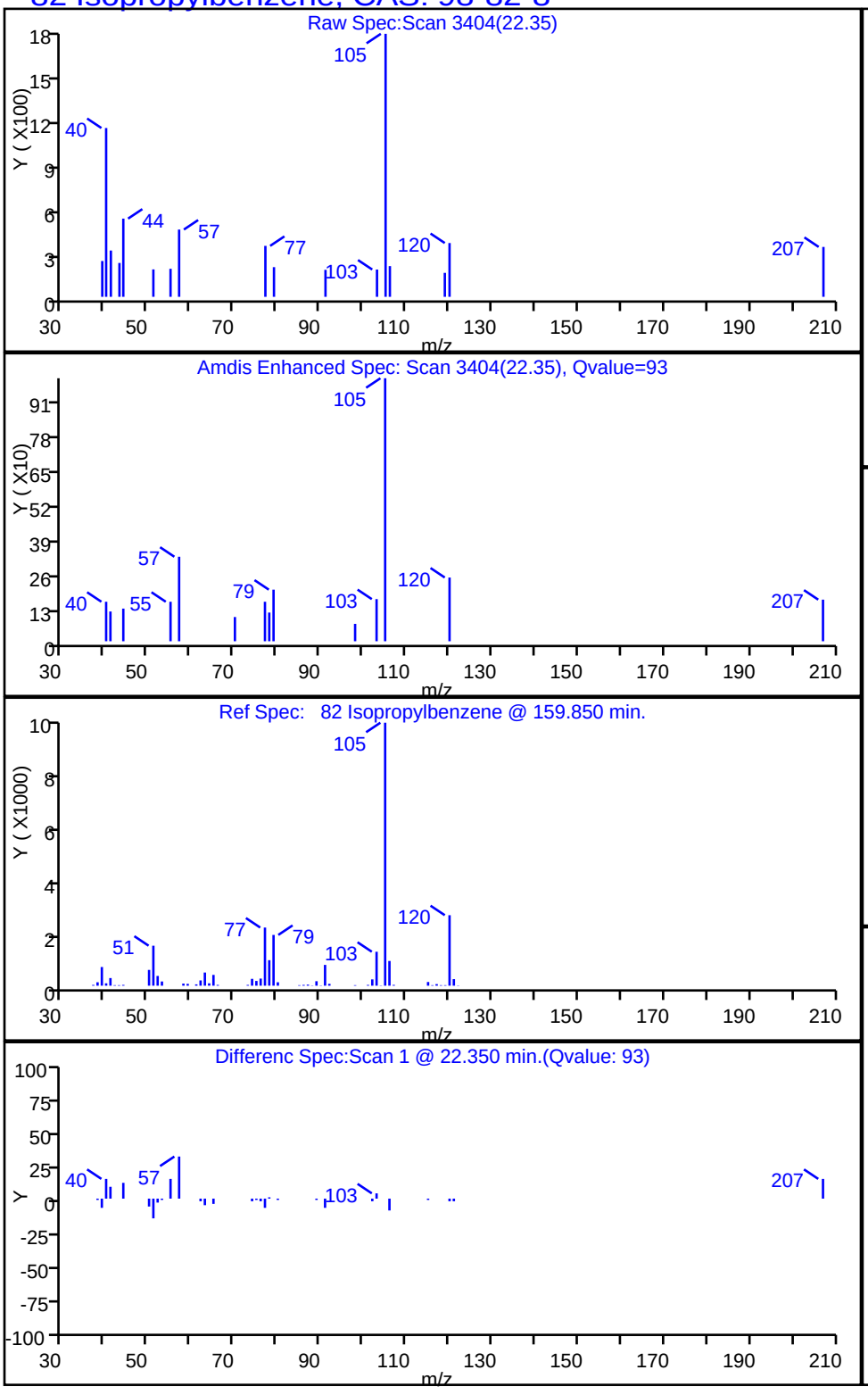


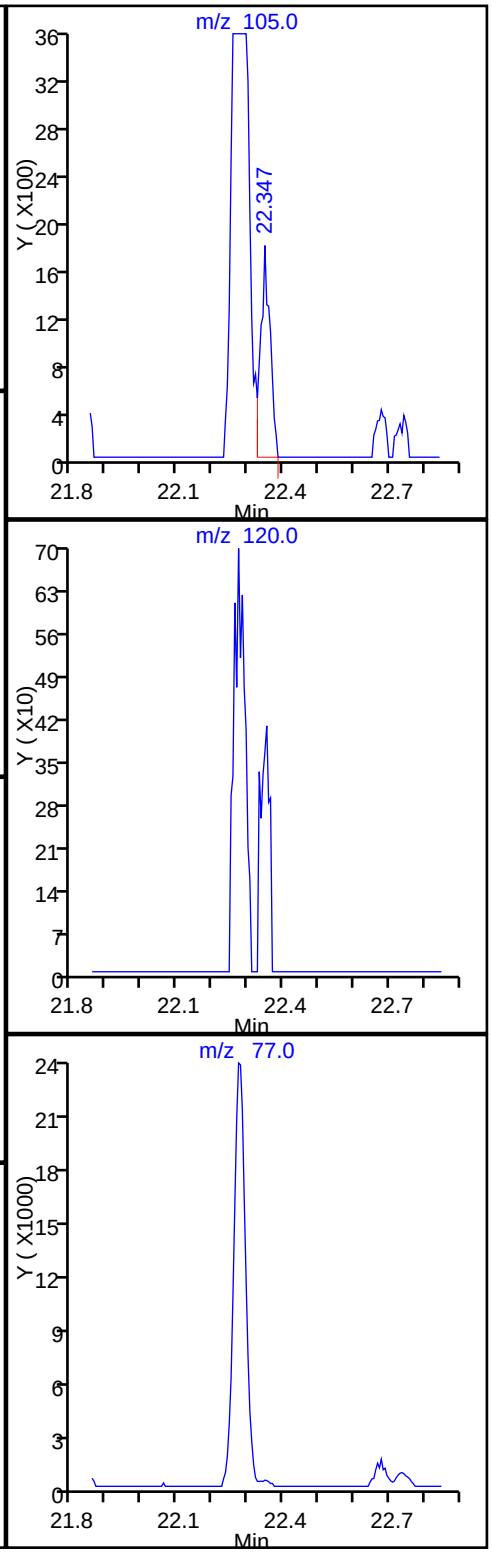
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

82 Isopropylbenzene, CAS: 98-82-8





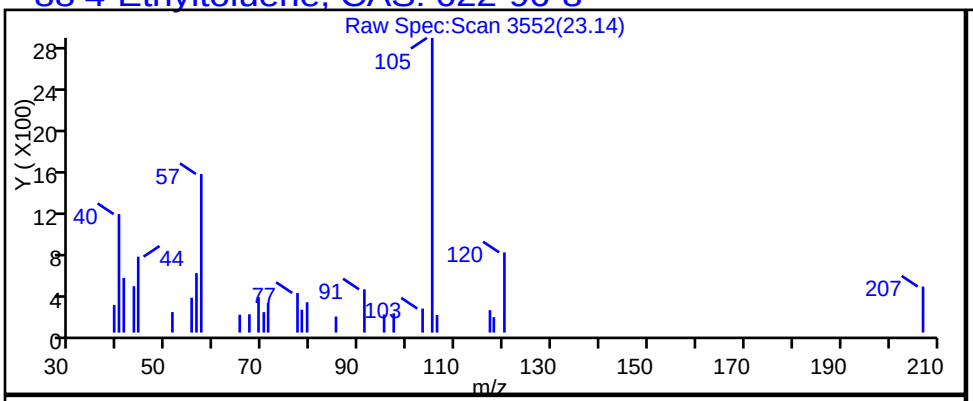
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

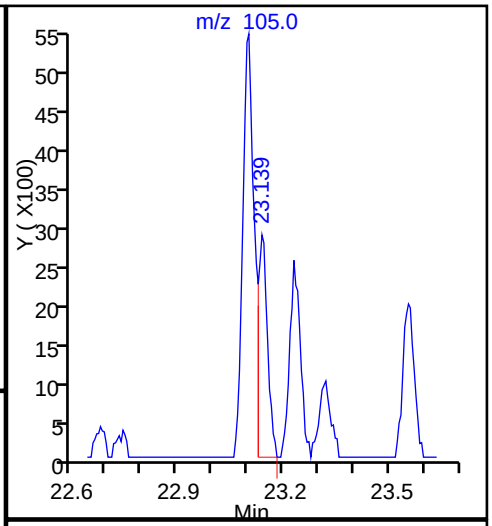
TestAmerica Burlington

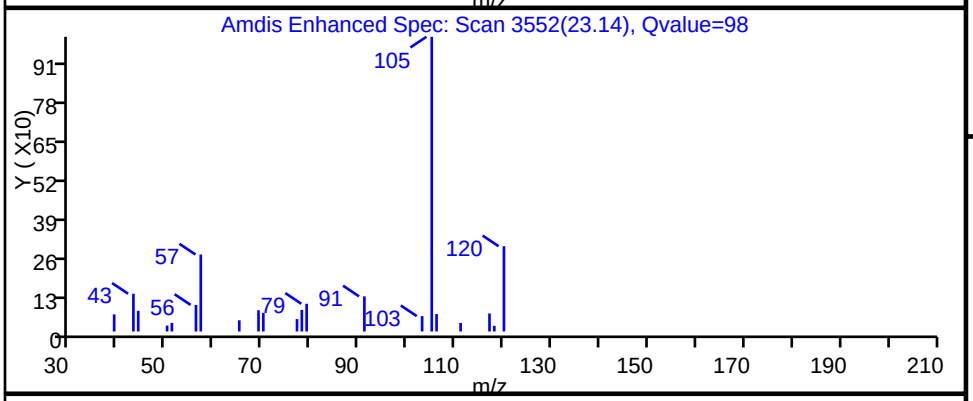
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

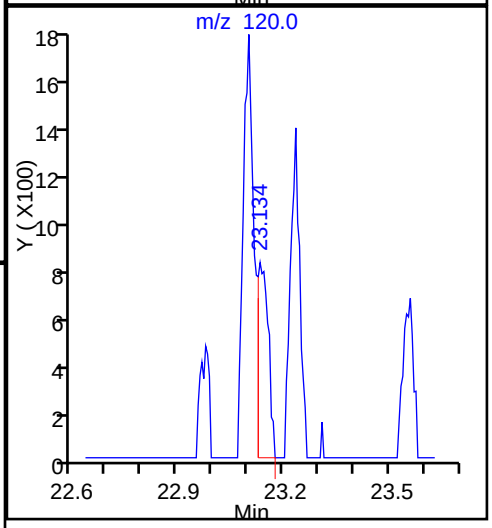
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

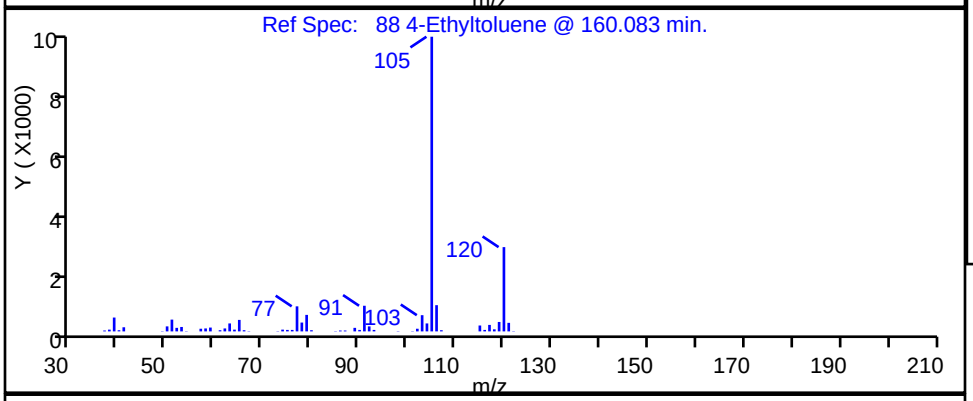
88 4-Ethyltoluene, CAS: 622-96-8

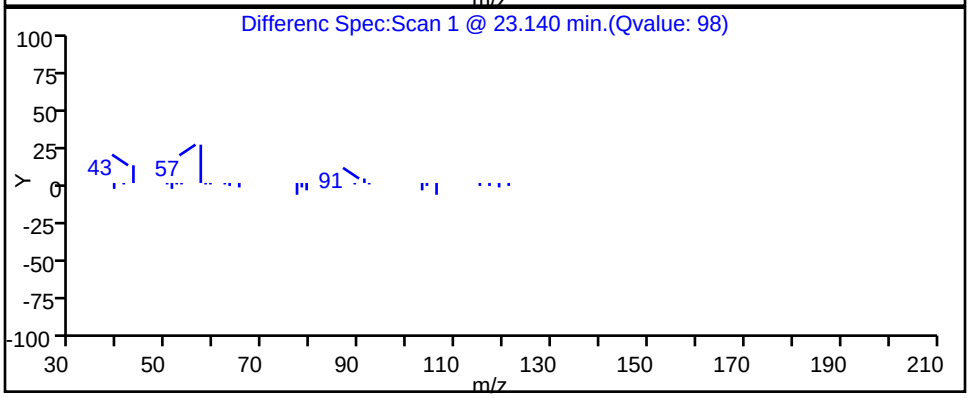










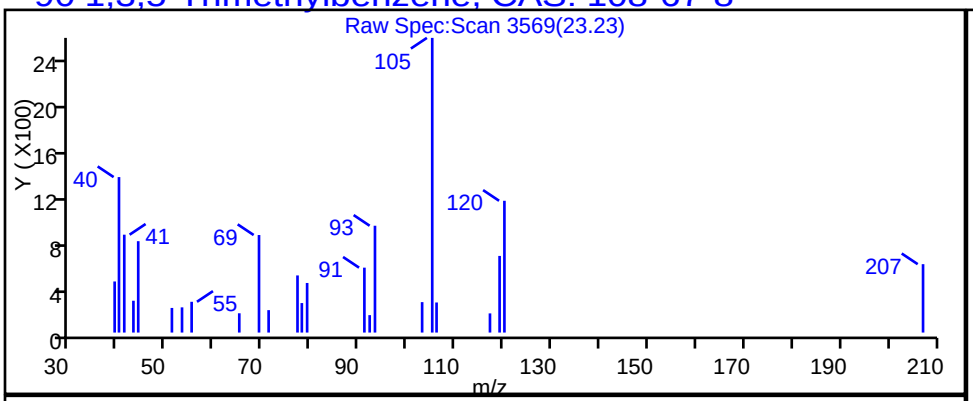


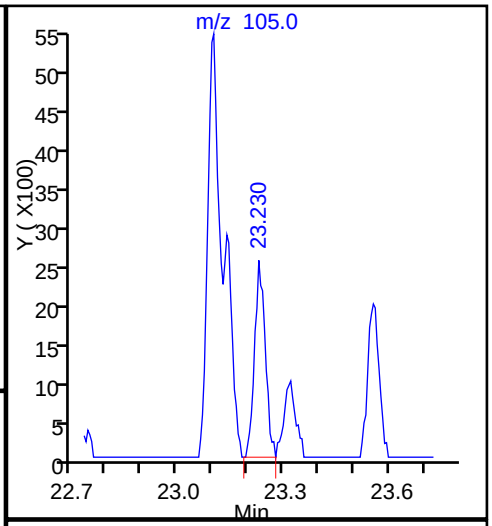
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

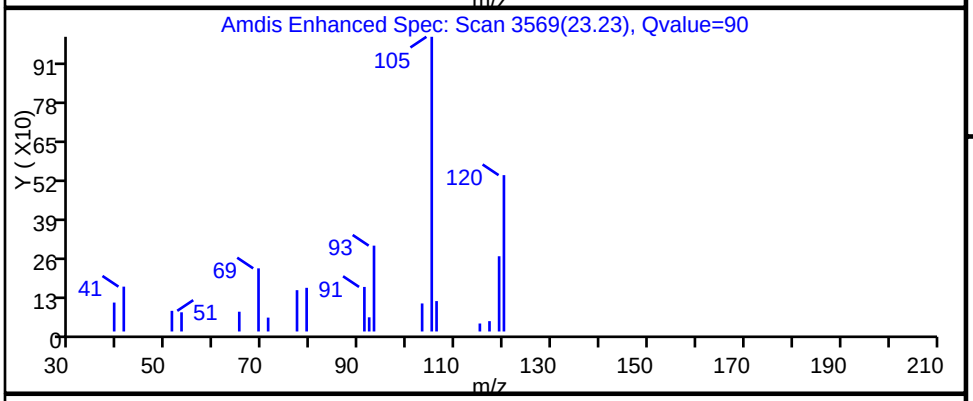
TestAmerica Burlington

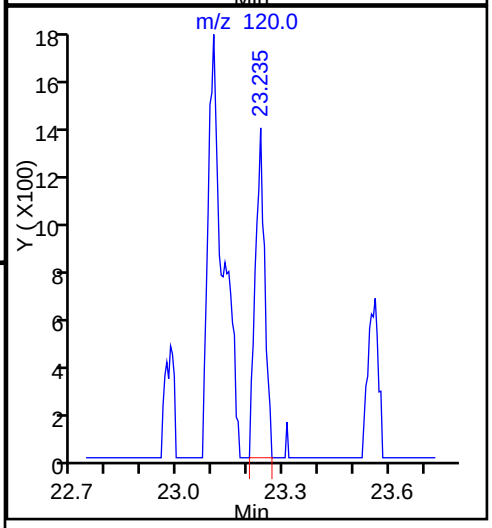
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

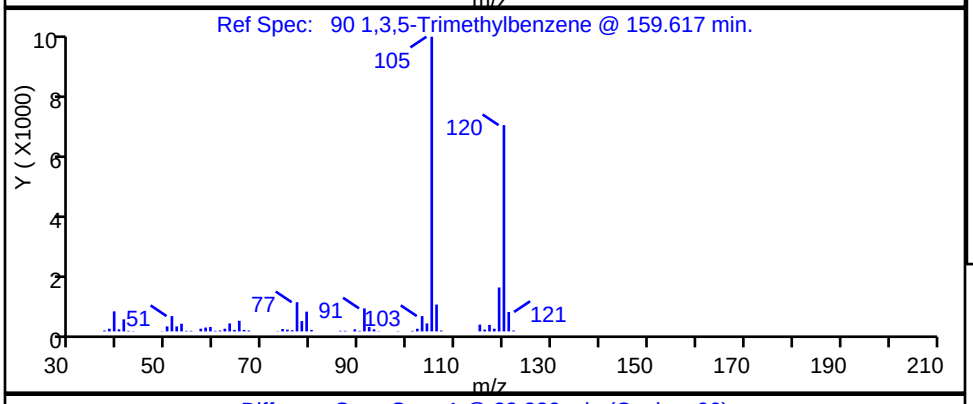
90 1,3,5-Trimethylbenzene, CAS: 108-67-8

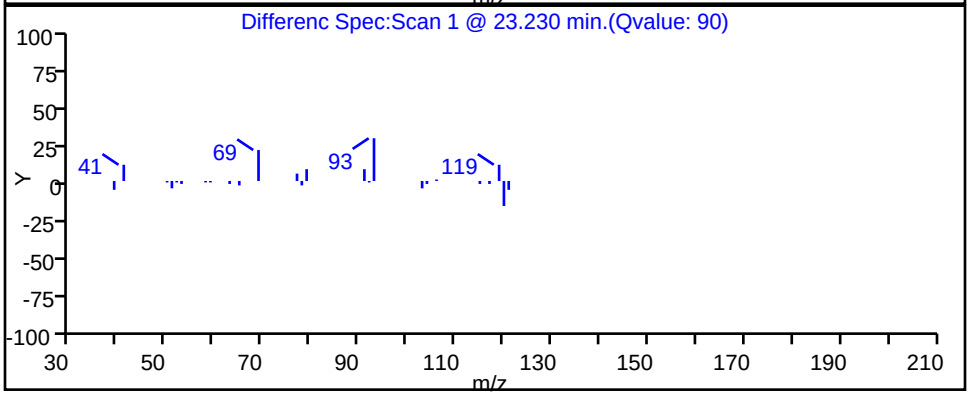










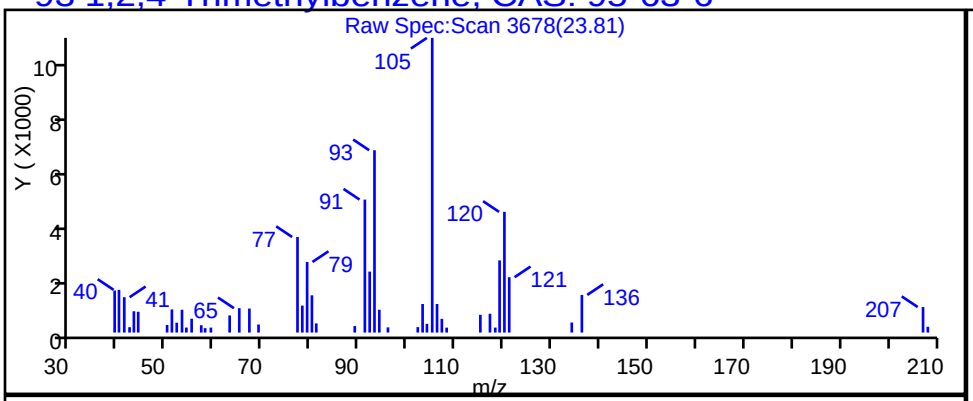


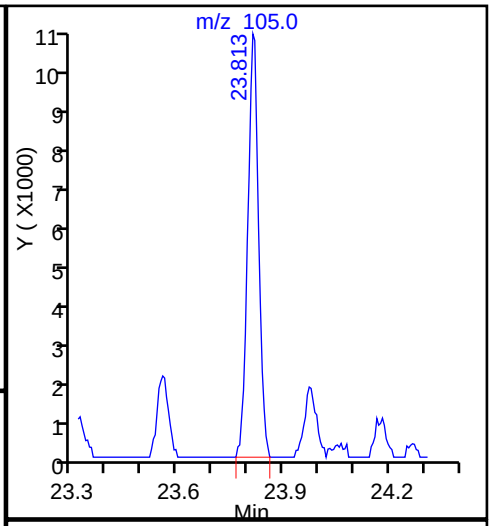
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

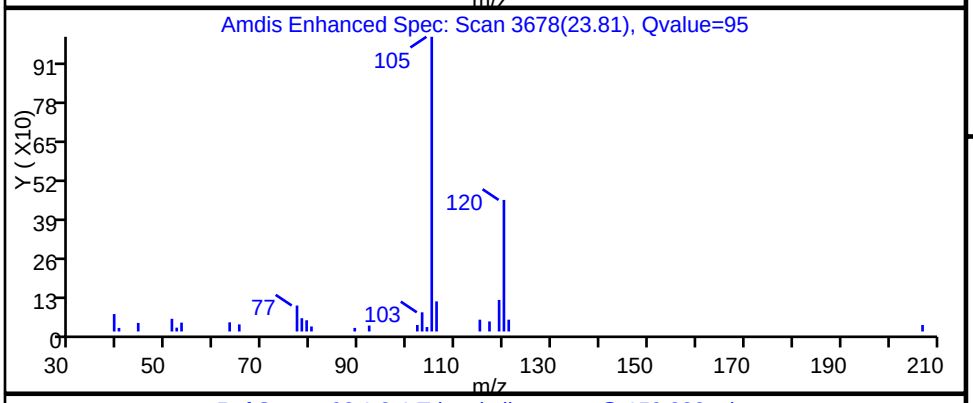
TestAmerica Burlington

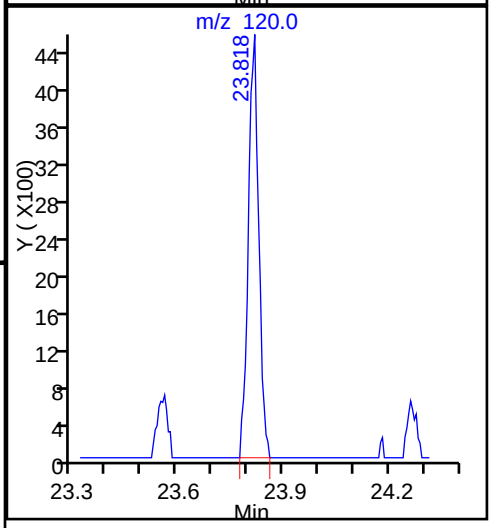
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

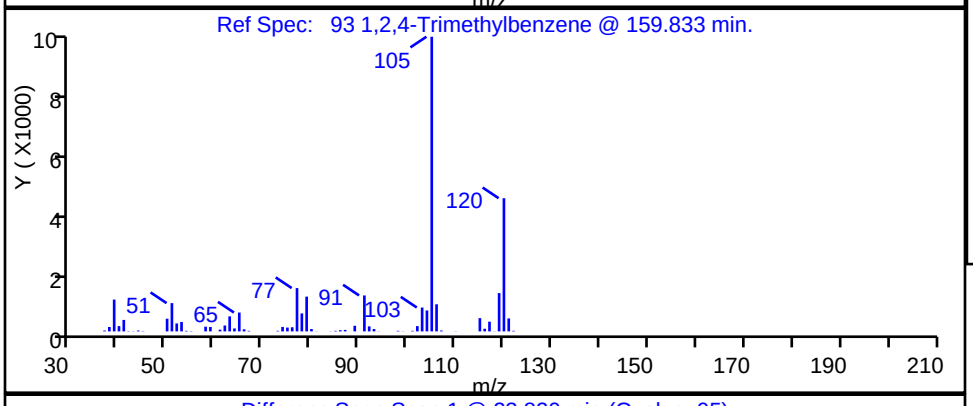
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

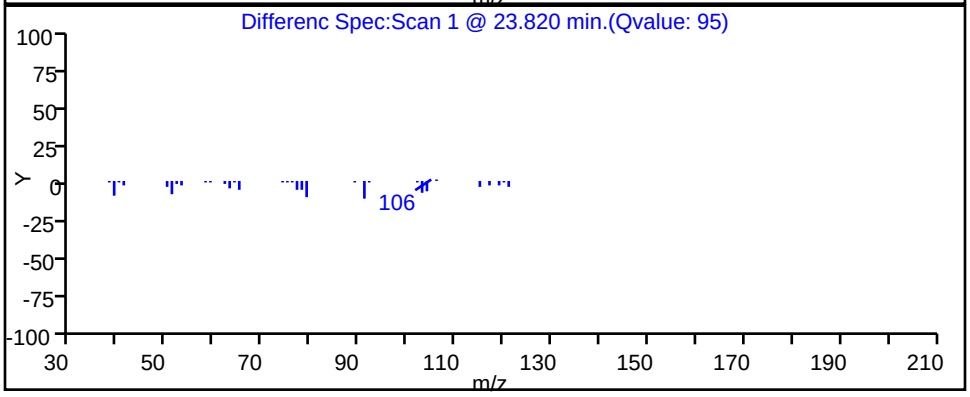










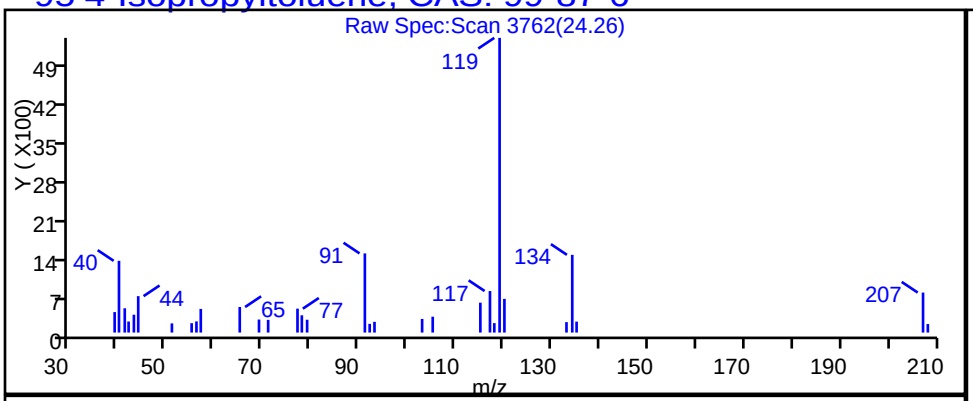


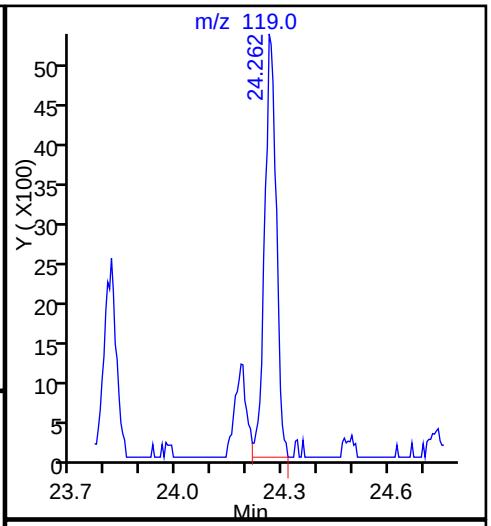
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

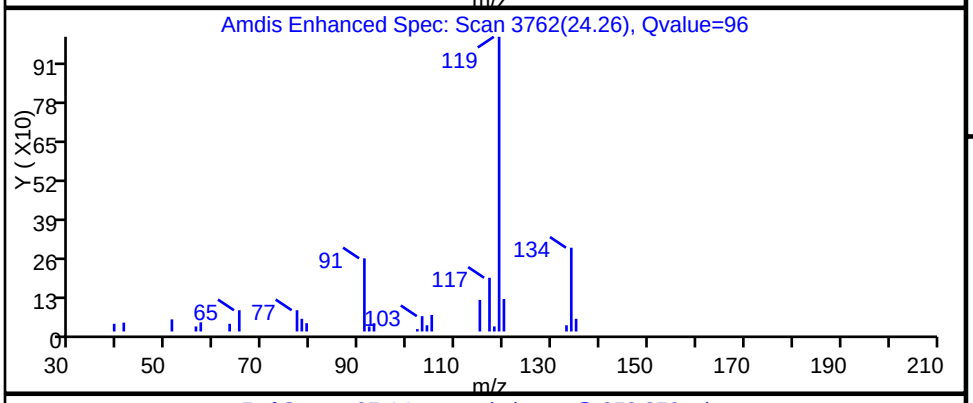
TestAmerica Burlington

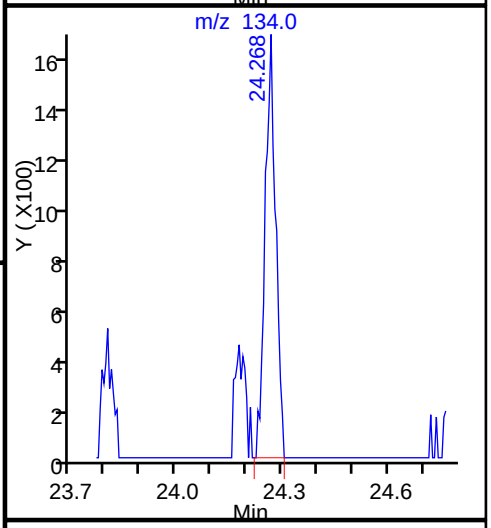
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

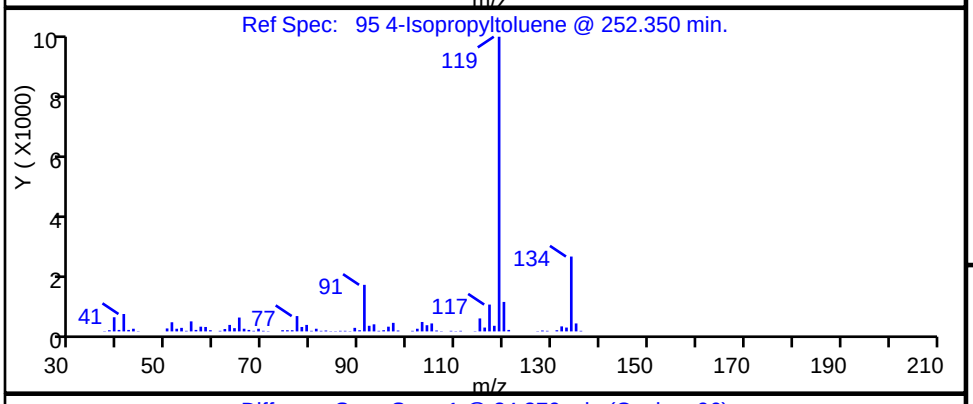
95 4-Isopropyltoluene, CAS: 99-87-6

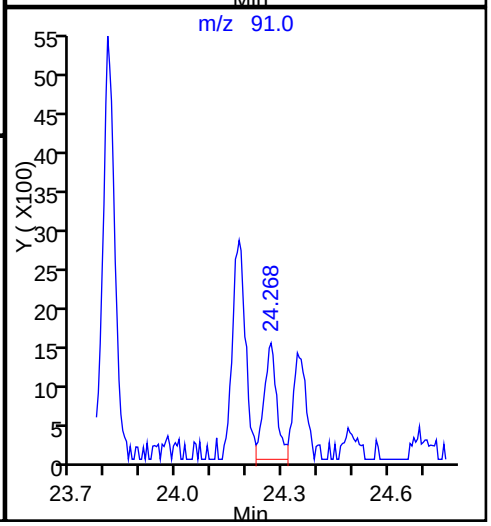


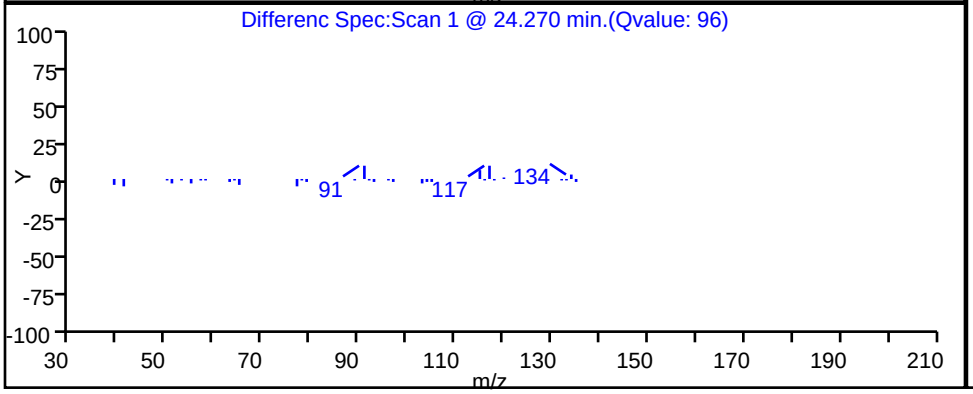












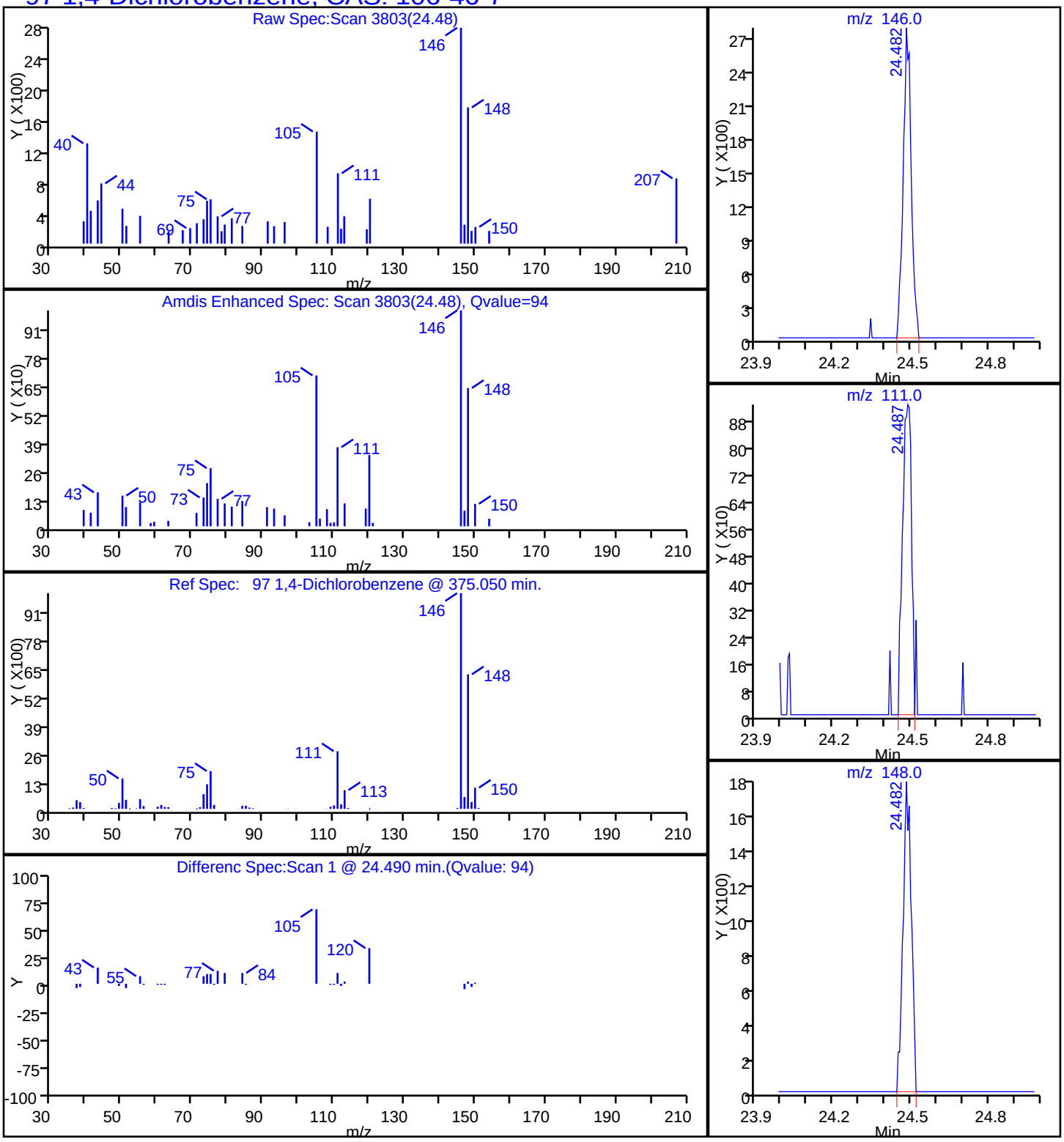
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d

Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

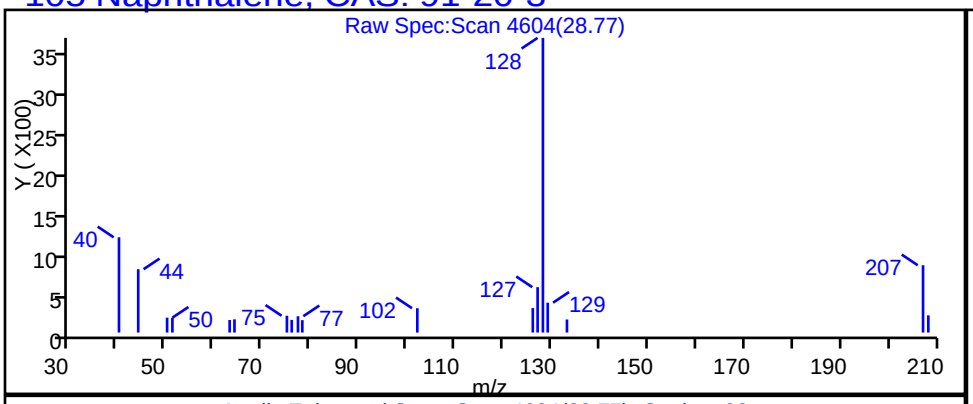


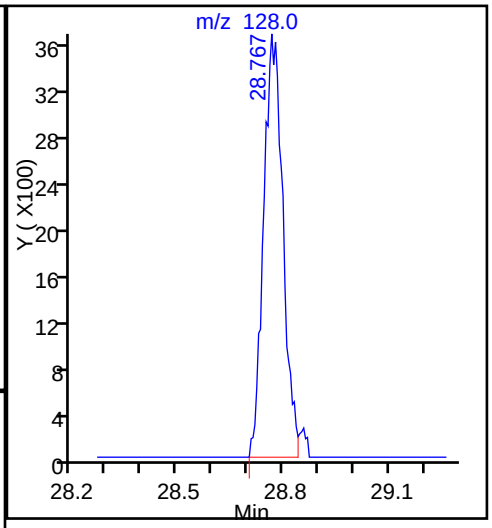
Report Date: 30-Sep-2015 14:18:20 Chrom Revision: 2.2 23-Jul-2015 08:26:08

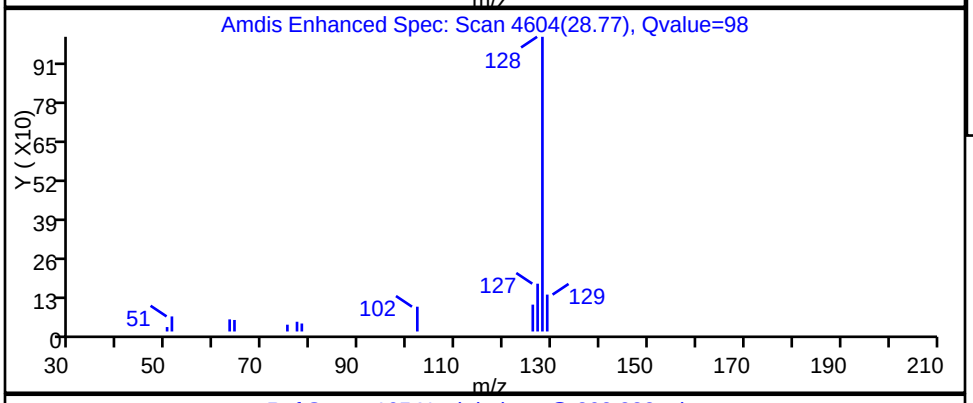
TestAmerica Burlington

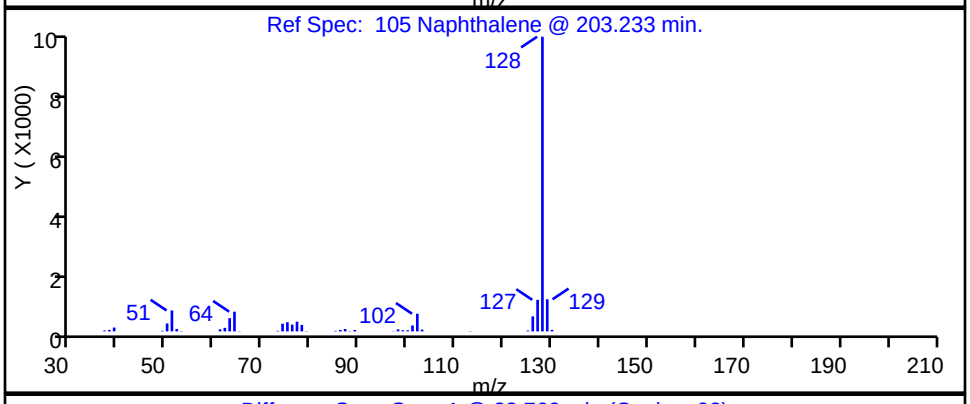
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

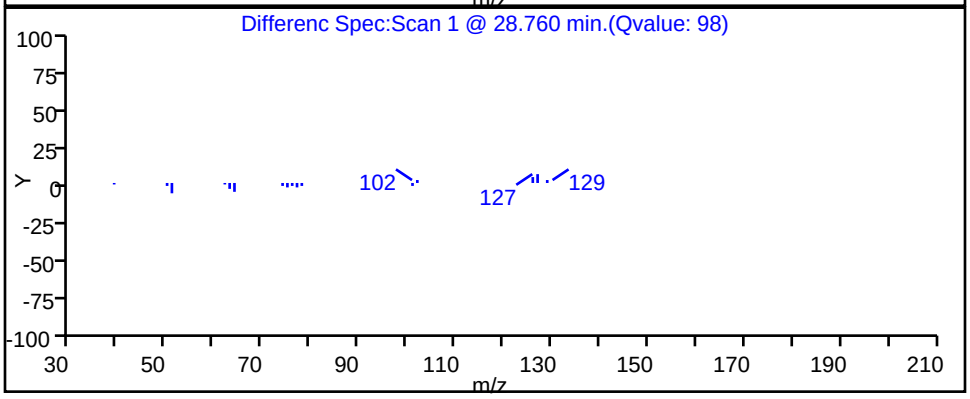
105 Naphthalene, CAS: 91-20-3











Manual Integration/User Assign Peak Report

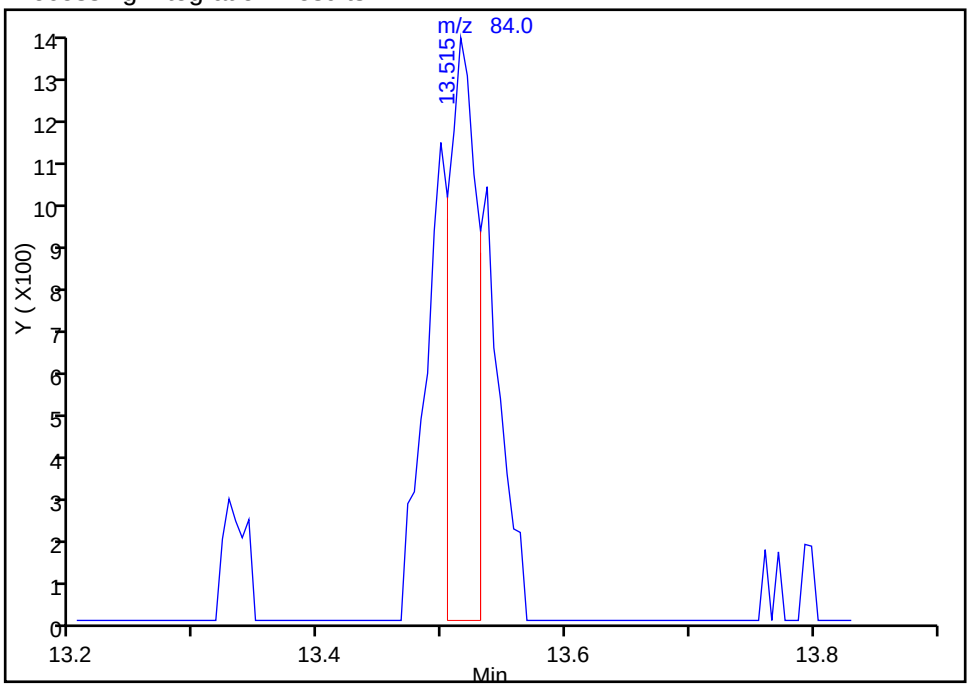
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

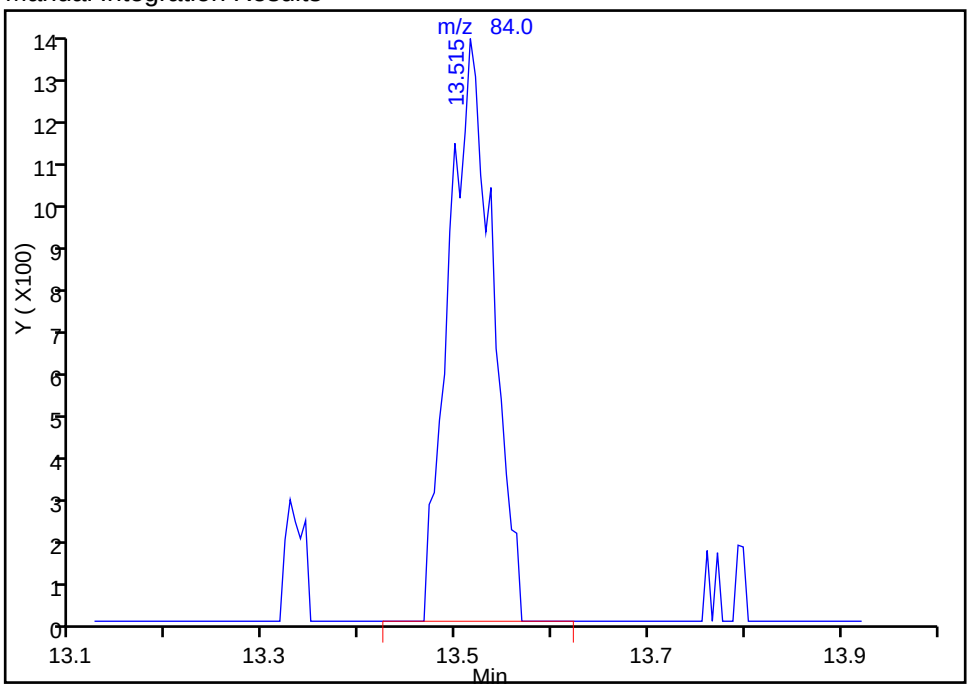
Processing Integration Results

RT: 13.51
Area: 2088
Amount: 0.104902
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 4132
Amount: 0.207594
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:08:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

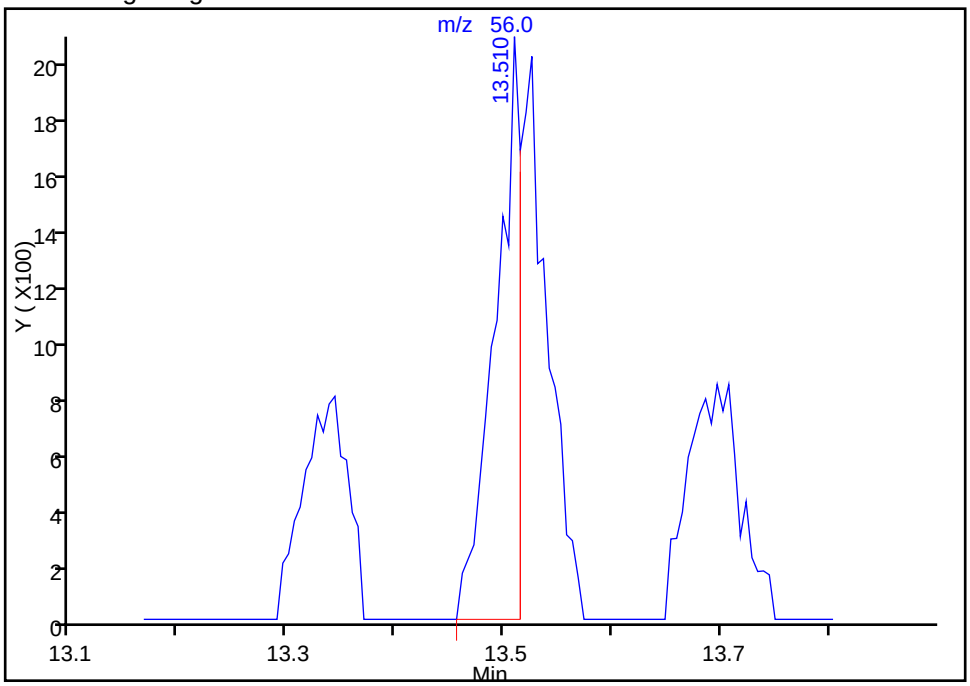
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

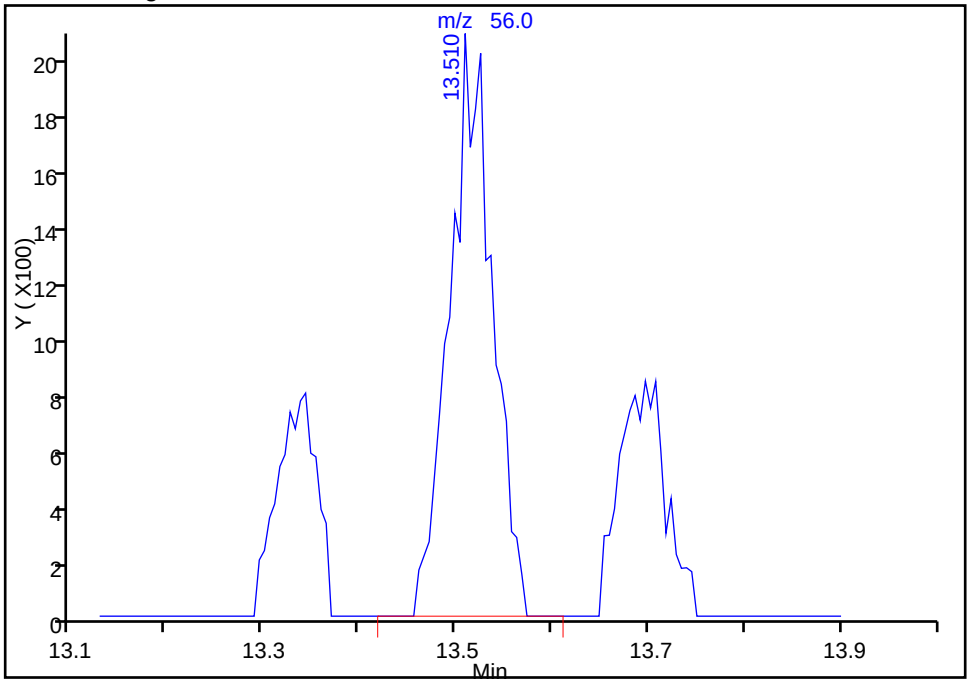
Processing Integration Results

RT: 13.51
Area: 3371
Amount: 0.104902
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 6452
Amount: 0.207594
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:08:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

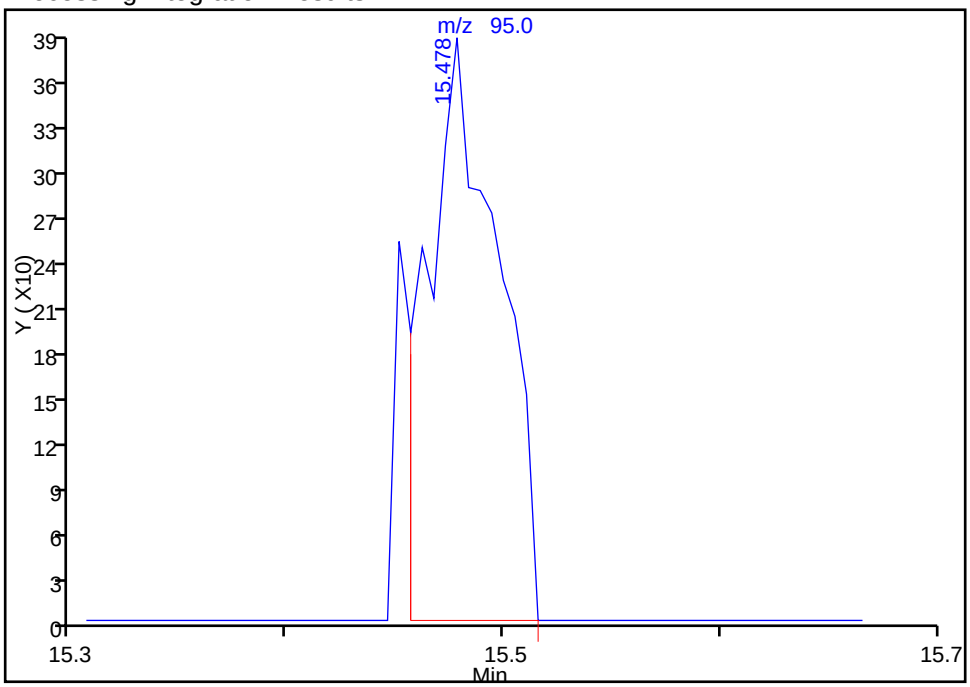
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

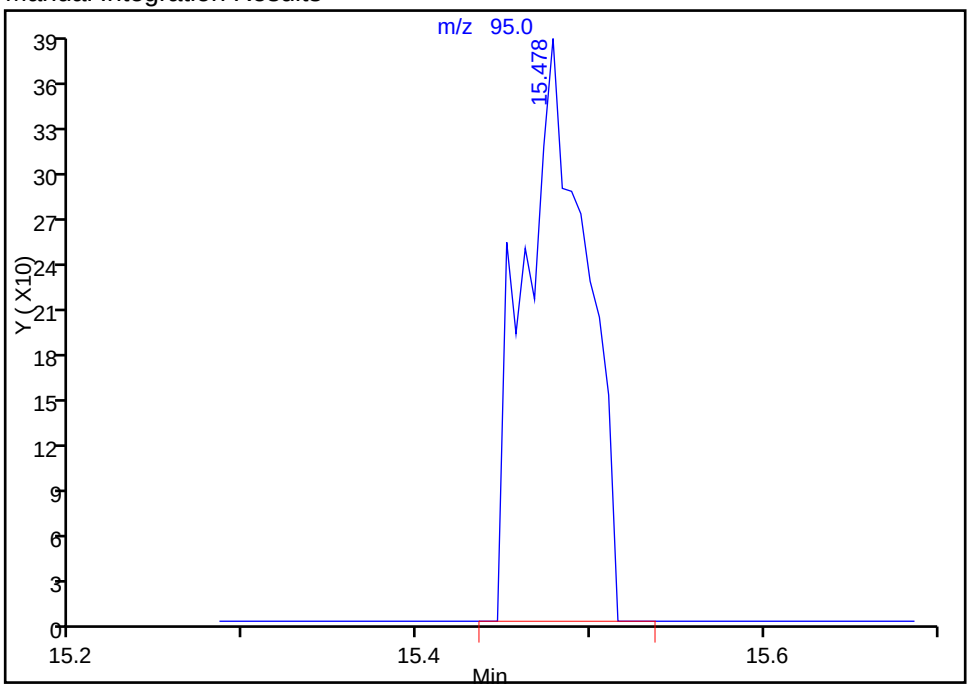
Processing Integration Results

RT: 15.48
Area: 896
Amount: 0.037526
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 977
Amount: 0.040918
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:08:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

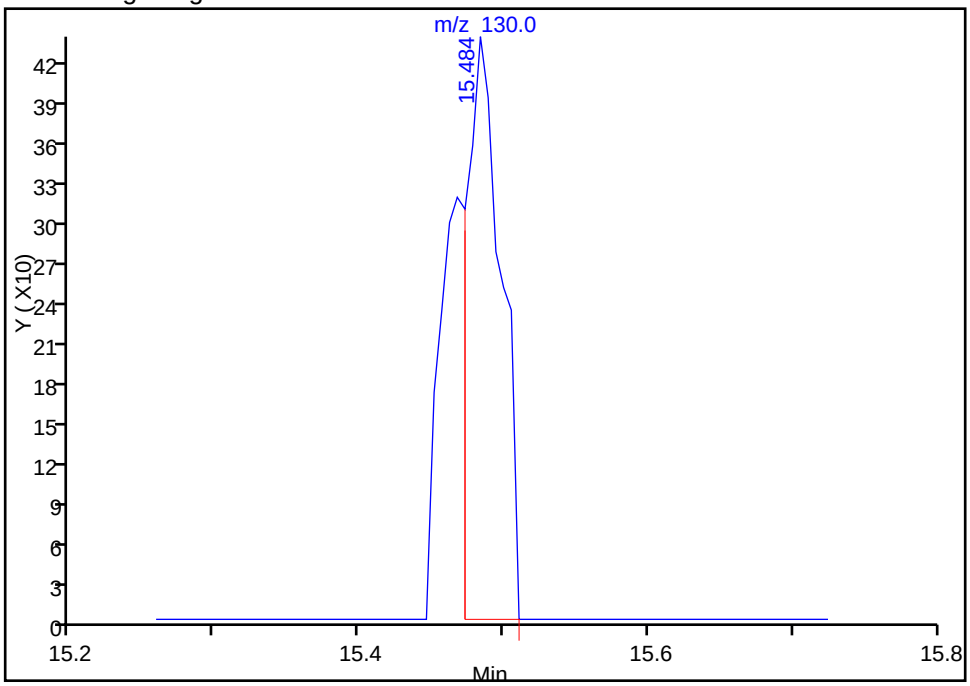
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

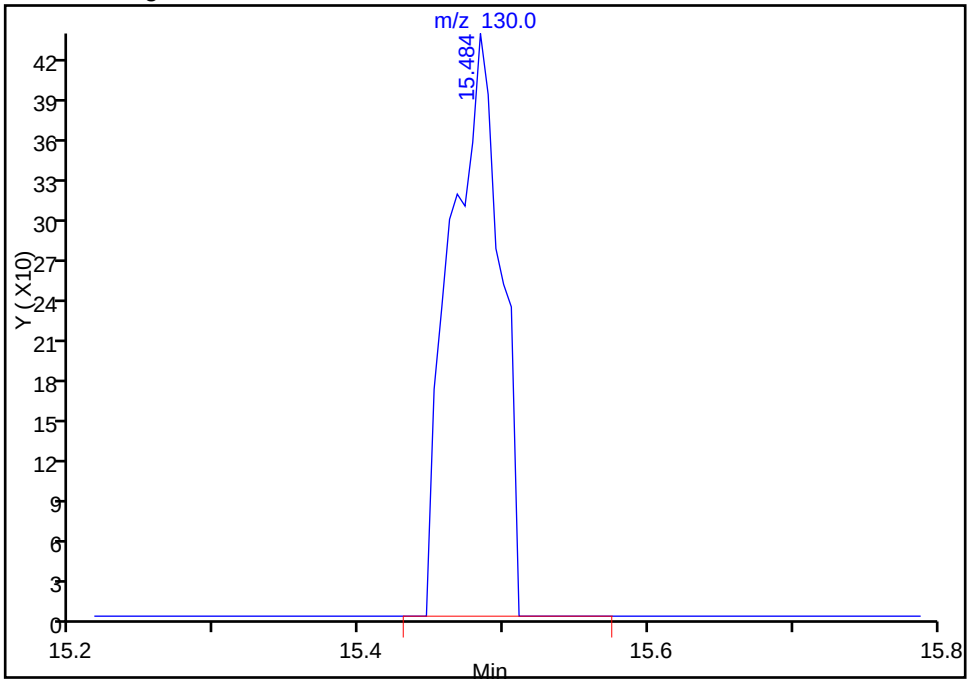
Processing Integration Results

RT: 15.48
Area: 725
Amount: 0.037526
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 1052
Amount: 0.040918
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:08:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

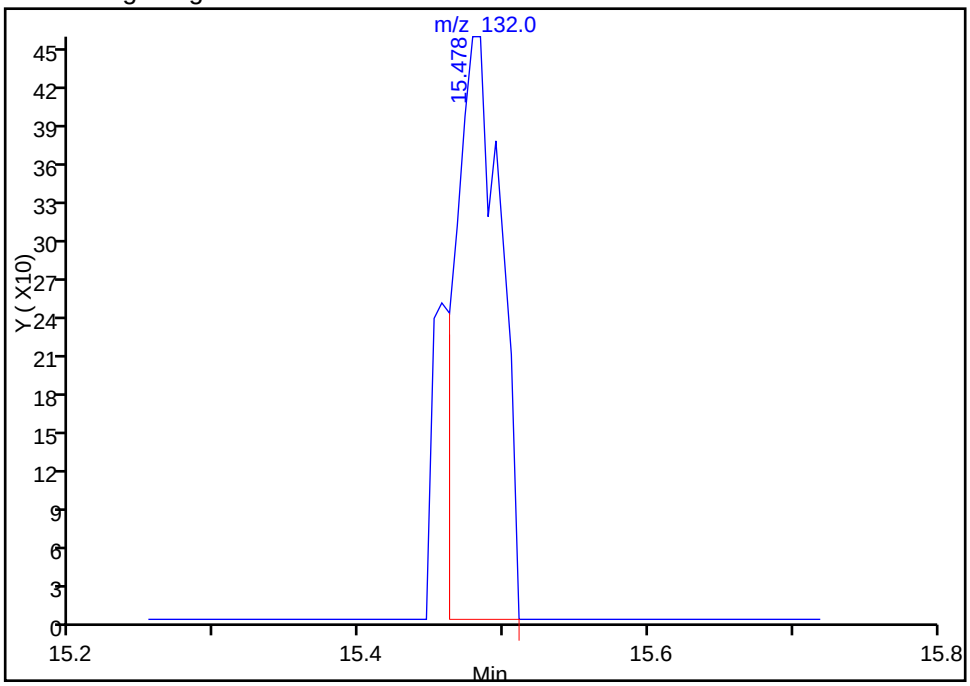
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_022.d				
Injection Date:	30-Sep-2015 03:52:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

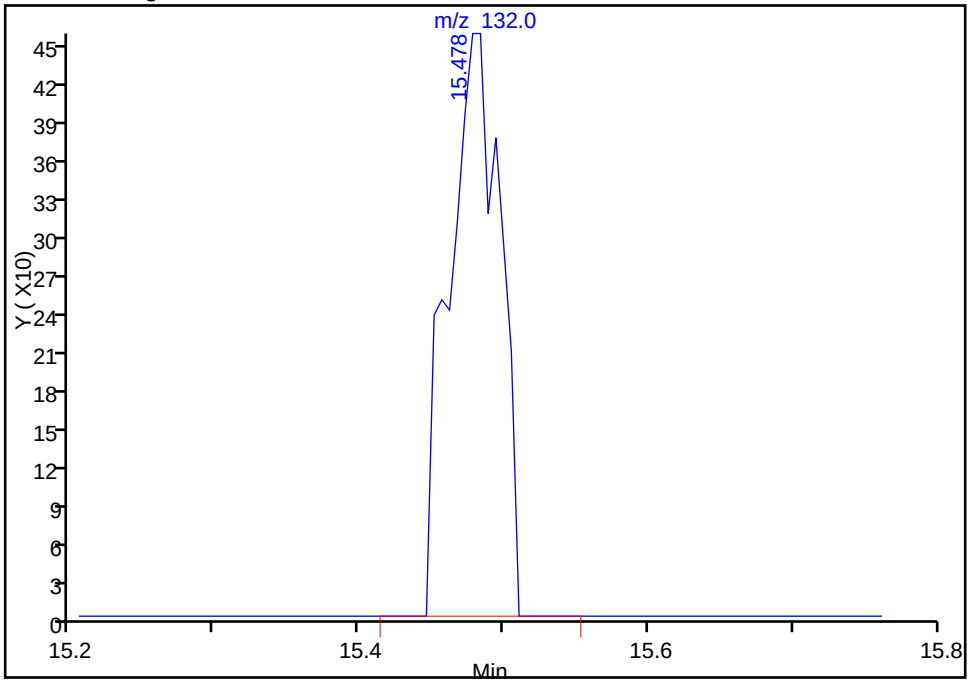
Processing Integration Results

RT: 15.48
Area: 970
Amount: 0.037526
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 1124
Amount: 0.040918
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:08:35
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 DL | Lab Sample ID: 200-29972-21 DL

Matrix: Air | Lab File ID: 16024_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 80(mL) | Date Analyzed: 09/30/2015 20:07

Soil Aliquot Vol: | Dilution Factor: 2.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.70	J D	1.3	0.20
75-45-6	Freon 22	86.47	0.89	J D	1.3	0.14
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.50	U	0.50	0.095
74-87-3	Chloromethane	50.49	0.61	J D	1.3	0.23
106-97-8	n-Butane	58.12	6.1	D	1.3	0.20
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.080
106-99-0	1,3-Butadiene	54.09	0.50	U	0.50	0.22
74-83-9	Bromomethane	94.94	0.50	U	0.50	0.14
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.21
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.50	U	0.50	0.11
75-69-4	Trichlorofluoromethane	137.37	57	D	0.50	0.095
76-13-1	Freon TF	187.38	0.50	U	0.50	0.19
75-35-4	1,1-Dichloroethene	96.94	0.77	D	0.50	0.090
67-64-1	Acetone	58.08	8.3	J D	13	2.2
67-63-0	Isopropyl alcohol	60.10	5.0	J D	13	2.5
75-15-0	Carbon disulfide	76.14	0.12	J D	1.3	0.11
107-05-1	3-Chloropropene	76.53	1.3	U	1.3	0.17
75-09-2	Methylene Chloride	84.93	1.3	U	1.3	0.45
75-65-0	tert-Butyl alcohol	74.12	13	U	13	2.1
1634-04-4	Methyl tert-butyl ether	88.15	0.50	U	0.50	0.22
156-60-5	trans-1,2-Dichloroethene	96.94	0.50	U	0.50	0.11
110-54-3	n-Hexane	86.17	0.58	D	0.50	0.14
75-34-3	1,1-Dichloroethane	98.96	0.23	J D	0.50	0.063
78-93-3	Methyl Ethyl Ketone	72.11	0.66	J D	1.3	0.13
156-59-2	cis-1,2-Dichloroethene	96.94	0.50	U	0.50	0.088
540-59-0	1,2-Dichloroethene, Total	96.94	1.0	U	1.0	0.088
67-66-3	Chloroform	119.38	0.50	U	0.50	0.21
109-99-9	Tetrahydrofuran	72.11	13	U	13	3.5
71-55-6	1,1,1-Trichloroethane	133.41	0.61	D	0.50	0.12
110-82-7	Cyclohexane	84.16	0.15	J D	0.50	0.098
56-23-5	Carbon tetrachloride	153.81	0.080	J D	0.10	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.24	J D	0.50	0.098
71-43-2	Benzene	78.11	0.65	D	0.50	0.11
107-06-2	1,2-Dichloroethane	98.96	1.0	D	0.50	0.10

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 DL | Lab Sample ID: 200-29972-21 DL

Matrix: Air | Lab File ID: 16024_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 80(mL) | Date Analyzed: 09/30/2015 20:07

Soil Aliquot Vol: | Dilution Factor: 2.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.23	J D	0.50	0.10
79-01-6	Trichloroethene	131.39	0.10	U	0.10	0.098
80-62-6	Methyl methacrylate	100.12	1.3	U	1.3	0.10
78-87-5	1,2-Dichloropropane	112.99	0.50	U	0.50	0.068
123-91-1	1,4-Dioxane	88.11	13	U	13	1.4
75-27-4	Bromodichloromethane	163.83	0.50	U	0.50	0.075
10061-01-5	cis-1,3-Dichloropropene	110.97	0.50	U	0.50	0.058
108-10-1	methyl isobutyl ketone	100.16	1.3	U	1.3	0.13
108-88-3	Toluene	92.14	1.2	D	0.50	0.23
10061-02-6	trans-1,3-Dichloropropene	110.97	0.50	U	0.50	0.085
79-00-5	1,1,2-Trichloroethane	133.41	0.50	U	0.50	0.098
127-18-4	Tetrachloroethene	165.83	0.060	J D	0.50	0.058
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.3	U	1.3	0.14
124-48-1	Dibromochloromethane	208.29	0.50	U	0.50	0.11
106-93-4	1,2-Dibromoethane	187.87	0.50	U	0.50	0.098
108-90-7	Chlorobenzene	112.56	0.50	U	0.50	0.12
100-41-4	Ethylbenzene	106.17	0.17	J D	0.50	0.083
179601-23-1	m,p-Xylene	106.17	0.54	J D	1.3	0.18
95-47-6	Xylene, o-	106.17	0.18	J D	0.50	0.093
1330-20-7	Xylene (total)	106.17	0.72	J D	1.8	0.093
100-42-5	Styrene	104.15	0.15	J D	0.50	0.11
75-25-2	Bromoform	252.75	0.50	U	0.50	0.14
98-82-8	Cumene	120.19	0.50	U	0.50	0.075
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.50	U	0.50	0.11
103-65-1	n-Propylbenzene	120.19	0.50	U	0.50	0.11
622-96-8	4-Ethyltoluene	120.20	0.50	U	0.50	0.11
108-67-8	1,3,5-Trimethylbenzene	120.20	0.50	U	0.50	0.098
95-49-8	2-Chlorotoluene	126.59	0.50	U	0.50	0.083
98-06-6	tert-Butylbenzene	134.22	0.50	U	0.50	0.11
95-63-6	1,2,4-Trimethylbenzene	120.20	0.15	J D	0.50	0.11
135-98-8	sec-Butylbenzene	134.22	0.50	U	0.50	0.11
99-87-6	4-Isopropyltoluene	134.22	0.50	U	0.50	0.093
541-73-1	1,3-Dichlorobenzene	147.00	0.50	U	0.50	0.14
106-46-7	1,4-Dichlorobenzene	147.00	0.50	U	0.50	0.14

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 DL Lab Sample ID: 200-29972-21 DL

Matrix: Air Lab File ID: 16024_012.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 80(mL) Date Analyzed: 09/30/2015 20:07

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*0.50*	*U*	*0.50*	*0.13*
104-51-8	*n-Butylbenzene*	*134.22*	*0.50*	*U*	*0.50*	*0.12*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*0.50*	*U*	*0.50*	*0.14*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*1.3*	*U*	*1.3*	*0.17*
87-68-3	*Hexachlorobutadiene*	*260.76*	*0.50*	*U*	*0.50*	*0.21*
91-20-3	*Naphthalene*	*128.17*	*1.3*	*U*	*1.3*	*0.14*

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 DL | Lab Sample ID: 200-29972-21 DL

Matrix: Air | Lab File ID: 16024_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 80(mL) | Date Analyzed: 09/30/2015 20:07

Soil Aliquot Vol: | Dilution Factor: 2.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.5	J D	6.2	0.99
75-45-6	Freon 22	86.47	3.1	J D	4.4	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	3.5	U	3.5	0.66
74-87-3	Chloromethane	50.49	1.3	J D	2.6	0.48
106-97-8	n-Butane	58.12	15	D	3.0	0.46
75-01-4	Vinyl chloride	62.50	0.26	U	0.26	0.20
106-99-0	1,3-Butadiene	54.09	1.1	U	1.1	0.49
74-83-9	Bromomethane	94.94	1.9	U	1.9	0.54
75-00-3	Chloroethane	64.52	3.3	U	3.3	0.56
593-60-2	Bromoethene(Vinyl Bromide)	106.96	2.2	U	2.2	0.48
75-69-4	Trichlorofluoromethane	137.37	320	D	2.8	0.53
76-13-1	Freon TF	187.38	3.8	U	3.8	1.4
75-35-4	1,1-Dichloroethene	96.94	3.1	D	2.0	0.36
67-64-1	Acetone	58.08	20	J D	30	5.1
67-63-0	Isopropyl alcohol	60.10	12	J D	31	6.0
75-15-0	Carbon disulfide	76.14	0.39	J D	3.9	0.33
107-05-1	3-Chloropropene	76.53	3.9	U	3.9	0.53
75-09-2	Methylene Chloride	84.93	4.3	U	4.3	1.6
75-65-0	tert-Butyl alcohol	74.12	38	U	38	6.4
1634-04-4	Methyl tert-butyl ether	88.15	1.8	U	1.8	0.80
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.43
110-54-3	n-Hexane	86.17	2.0	D	1.8	0.48
75-34-3	1,1-Dichloroethane	98.96	0.93	J D	2.0	0.25
78-93-3	Methyl Ethyl Ketone	72.11	1.9	J D	3.7	0.38
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.35
540-59-0	1,2-Dichloroethene, Total	96.94	4.0	U	4.0	0.35
67-66-3	Chloroform	119.38	2.4	U	2.4	1.0
109-99-9	Tetrahydrofuran	72.11	37	U	37	10
71-55-6	1,1,1-Trichloroethane	133.41	3.3	D	2.7	0.63
110-82-7	Cyclohexane	84.16	0.51	J D	1.7	0.34
56-23-5	Carbon tetrachloride	153.81	0.50	J D	0.63	0.50
540-84-1	2,2,4-Trimethylpentane	114.23	1.1	J D	2.3	0.46
71-43-2	Benzene	78.11	2.1	D	1.6	0.34
107-06-2	1,2-Dichloroethane	98.96	4.1	D	2.0	0.41

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 DL | Lab Sample ID: 200-29972-21 DL

Matrix: Air | Lab File ID: 16024_012.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 18:34

Sample wt/vol: 80(mL) | Date Analyzed: 09/30/2015 20:07

Soil Aliquot Vol: | Dilution Factor: 2.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.95	J D	2.0	0.41
79-01-6	Trichloroethene	131.39	0.54	U	0.54	0.52
80-62-6	Methyl methacrylate	100.12	5.1	U	5.1	0.41
78-87-5	1,2-Dichloropropane	112.99	2.3	U	2.3	0.31
123-91-1	1,4-Dioxane	88.11	45	U	45	5.0
75-27-4	Bromodichloromethane	163.83	3.4	U	3.4	0.50
10061-01-5	cis-1,3-Dichloropropene	110.97	2.3	U	2.3	0.26
108-10-1	methyl isobutyl ketone	100.16	5.1	U	5.1	0.51
108-88-3	Toluene	92.14	4.7	D	1.9	0.88
10061-02-6	trans-1,3-Dichloropropene	110.97	2.3	U	2.3	0.39
79-00-5	1,1,2-Trichloroethane	133.41	2.7	U	2.7	0.53
127-18-4	Tetrachloroethene	165.83	0.41	J D	3.4	0.39
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.1	U	5.1	0.58
124-48-1	Dibromochloromethane	208.29	4.3	U	4.3	0.94
106-93-4	1,2-Dibromoethane	187.87	3.8	U	3.8	0.75
108-90-7	Chlorobenzene	112.56	2.3	U	2.3	0.56
100-41-4	Ethylbenzene	106.17	0.75	J D	2.2	0.36
179601-23-1	m,p-Xylene	106.17	2.3	J D	5.4	0.77
95-47-6	Xylene, o-	106.17	0.78	J D	2.2	0.40
1330-20-7	Xylene (total)	106.17	3.1	J D	7.6	0.40
100-42-5	Styrene	104.15	0.64	J D	2.1	0.46
75-25-2	Bromoform	252.75	5.2	U	5.2	1.4
98-82-8	Cumene	120.19	2.5	U	2.5	0.37
79-34-5	1,1,2,2-Tetrachloroethane	167.85	3.4	U	3.4	0.76
103-65-1	n-Propylbenzene	120.19	2.5	U	2.5	0.53
622-96-8	4-Ethyltoluene	120.20	2.5	U	2.5	0.54
108-67-8	1,3,5-Trimethylbenzene	120.20	2.5	U	2.5	0.48
95-49-8	2-Chlorotoluene	126.59	2.6	U	2.6	0.43
98-06-6	tert-Butylbenzene	134.22	2.7	U	2.7	0.60
95-63-6	1,2,4-Trimethylbenzene	120.20	0.76	J D	2.5	0.53
135-98-8	sec-Butylbenzene	134.22	2.7	U	2.7	0.60
99-87-6	4-Isopropyltoluene	134.22	2.7	U	2.7	0.51
541-73-1	1,3-Dichlorobenzene	147.00	3.0	U	3.0	0.83
106-46-7	1,4-Dichlorobenzene	147.00	3.0	U	3.0	0.86

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-IA10-092315 DL Lab Sample ID: 200-29972-21 DL

Matrix: Air Lab File ID: 16024_012.d

Analysis Method: TO-15 Date Collected: 09/23/2015 18:34

Sample wt/vol: 80(mL) Date Analyzed: 09/30/2015 20:07

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	*Benzyl chloride*	*126.58*	*2.6*	*U*	*2.6*	*0.69*
104-51-8	*n-Butylbenzene*	*134.22*	*2.7*	*U*	*2.7*	*0.65*
95-50-1	*1,2-Dichlorobenzene*	*147.00*	*3.0*	*U*	*3.0*	*0.83*
120-82-1	*1,2,4-Trichlorobenzene*	*181.45*	*9.3*	*U*	*9.3*	*1.3*
87-68-3	*Hexachlorobutadiene*	*260.76*	*5.3*	*U*	*5.3*	*2.2*
91-20-3	*Naphthalene*	*128.17*	*6.6*	*U*	*6.6*	*0.75*

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d
Lims ID: 200-29972-A-21 Lab Sample ID: 200-29972-21
Client ID: FR-IA10-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 20:07:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 200.000 mL Dil. Factor: 2.5000
Sample Info: 200-0016024-012
Misc. Info.: 29972-21
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 12:26:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.431	-0.011	98	13002	0.2802	
3 Chlorodifluoromethane	51	4.495	4.501	-0.006	96	6645	0.3552	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.806				ND	
5 Chloromethane	50	5.009	5.009	0.000	95	2208	0.2436	
6 Butane	43	5.282	5.292	-0.010	96	32453	2.46	
7 Vinyl chloride	62		5.357				ND	
8 Butadiene	54		5.458				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64		6.678				ND	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101	7.298	7.299	-0.001	98	1205846	22.9	
20 1,1,2-Trichloro-1,2,2-trif	101		8.599				ND	
21 1,1-Dichloroethene	96	8.673	8.668	0.005	92	4676	0.3092	
22 Acetone	43	8.946	8.941	0.005	97	54401	3.33	
23 Carbon disulfide	76	9.160	9.171	-0.011	37	1801	0.0495	
24 Isopropyl alcohol	45	9.235	9.219	0.016	96	26255	2.01	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.914	9.931	-0.017	74	1962	0.1636	M
28 2-Methyl-2-propanol	59		10.113				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.375				ND	
31 trans-1,2-Dichloroethene	61		10.434				ND	
33 Hexane	57	10.845	10.856	-0.011	86	3668	0.2306	
34 1,1-Dichloroethane	63	11.418	11.429	-0.011	94	2161	0.0920	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.659	12.654	0.005	98	1989	0.2631	
41 Tetrahydrofuran	42		13.108				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	71	146144	10.0	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84	13.499	13.510	-0.011	58	1162	0.0592	M
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	93	10281	0.2446	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
45 Carbon tetrachloride	117	13.788	13.782	0.006	88	1480	0.0320	
46 Isooctane	57	14.184	14.184	0.000	88	5107	0.0961	
47 Benzene	78	14.248	14.253	-0.005	95	11893	0.2594	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	97	8950	0.4067	
49 n-Heptane	43	14.531	14.531	0.000	70	1535	0.0927	M
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	677274	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.099				ND	
56 1,4-Dioxane	88		16.190				ND	
58 Dichlorobromomethane	83		16.500				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK	43		17.624				ND	
65 Toluene	92	17.955	17.955	0.000	93	18641	0.4993	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.865				ND	
68 Tetrachloroethene	166	18.988	18.988	0.000	89	1083	0.0241	
69 2-Hexanone	43		19.261				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106				0		0.2867	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	645312	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91	20.892	20.898	-0.006	94	5774	0.0692	
78 m-Xylene & p-Xylene	106	21.095	21.106	-0.011	0	7260	0.2153	
79 o-Xylene	106	21.807	21.796	0.011	94	2374	0.0714	
80 Styrene	104	21.828	21.839	-0.011	24	3121	0.0599	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105	22.347	22.347	0.000	81	1047	0.0103	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91		22.973				ND	
88 4-Ethyltoluene	105		23.139				ND	
89 2-Chlorotoluene	91		23.177				ND	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	92	1622	0.0167	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105	23.808	23.813	-0.005	83	5950	0.0617	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119	24.262	24.262	0.000	94	3502	0.0294	
96 1,3-Dichlorobenzene	146		24.332				ND	
97 1,4-Dichlorobenzene	146	24.471	24.482	-0.011	90	1813	0.0230	
98 Benzyl chloride	91		24.707				ND	
100 n-Butylbenzene	91		24.921				ND	
101 1,2-Dichlorobenzene	146		25.113				ND	
103 1,2,4-Trichlorobenzene	180		28.130				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128	28.767	28.767	0.000	1	3236	0.0265	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

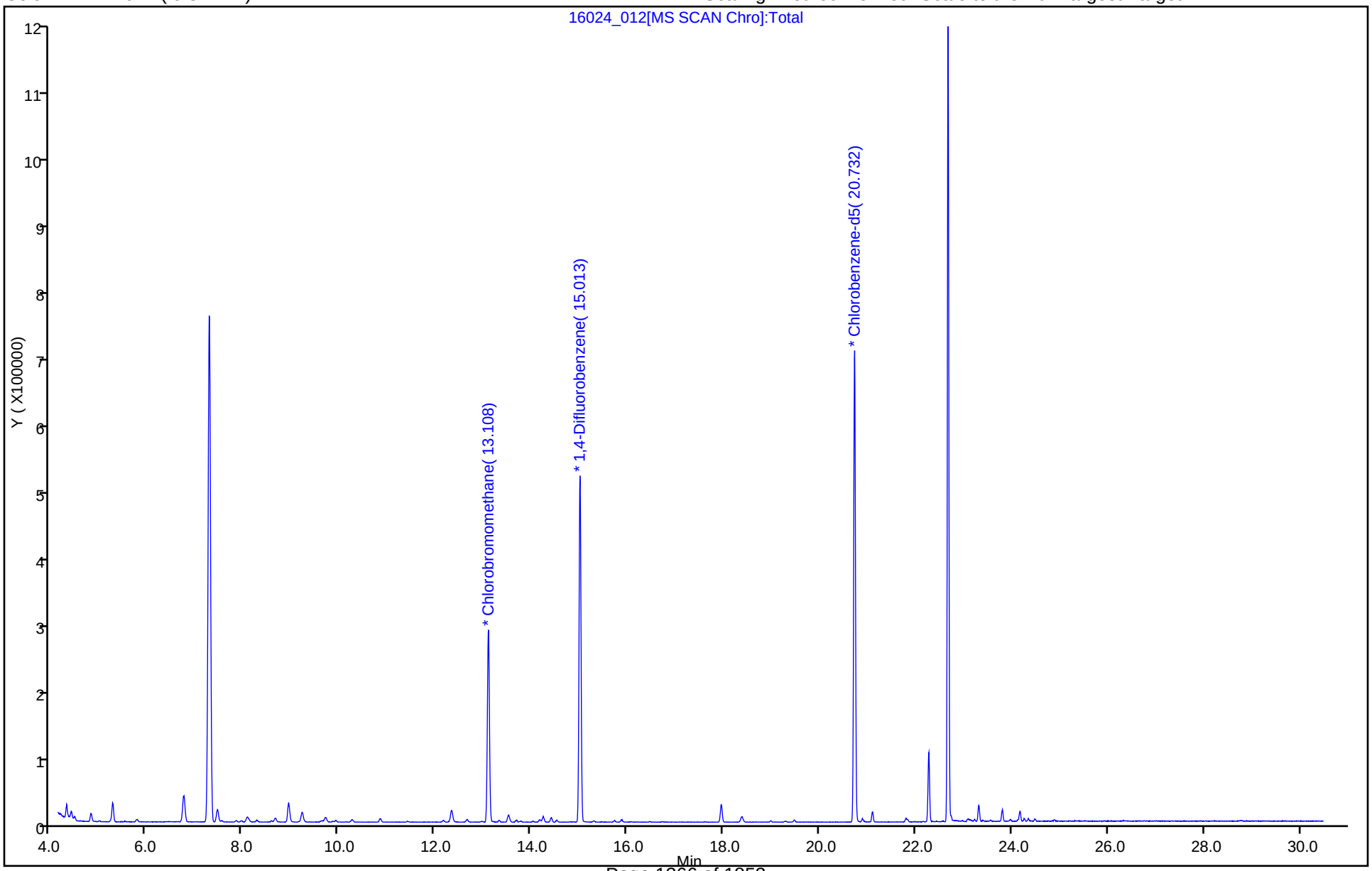
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21	Worklist Smp#:	12
Client ID:	FR-IA10-092315				
Purge Vol:	200.000 mL	Dil. Factor:	2.5000	ALS Bottle#:	11
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



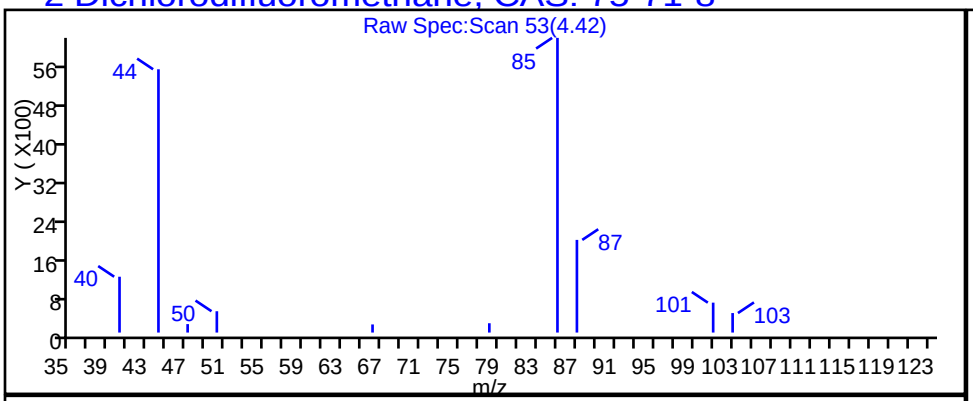
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

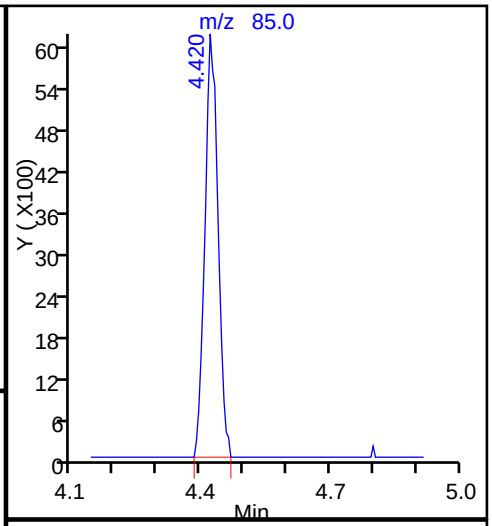
TestAmerica Burlington

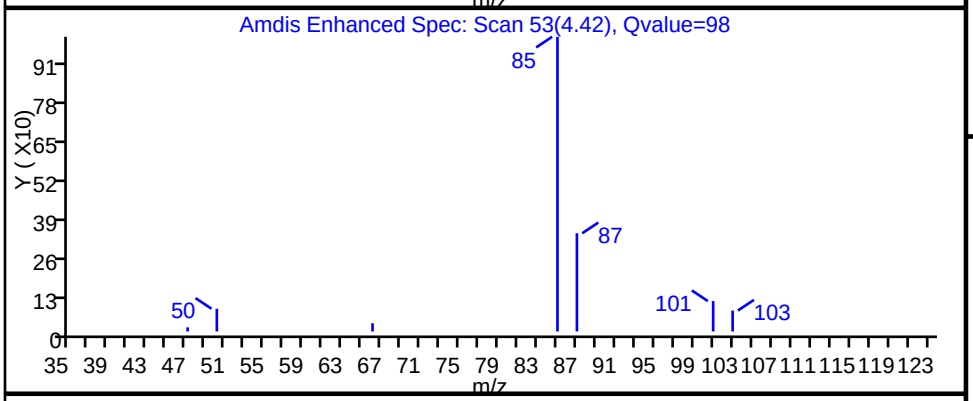
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

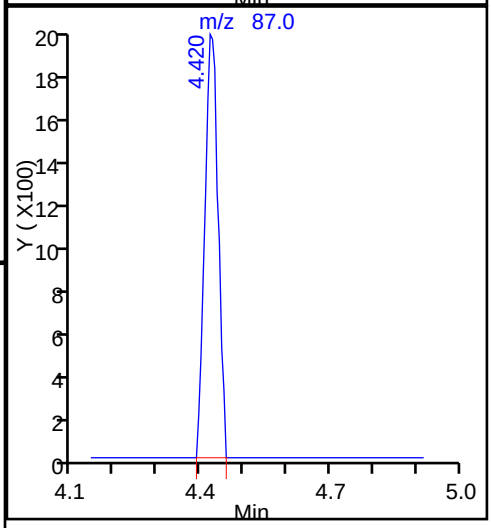
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

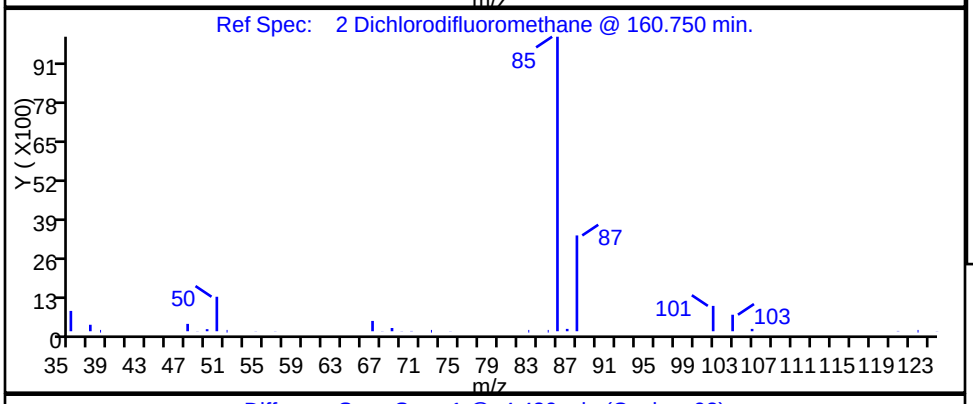
2 Dichlorodifluoromethane, CAS: 75-71-8

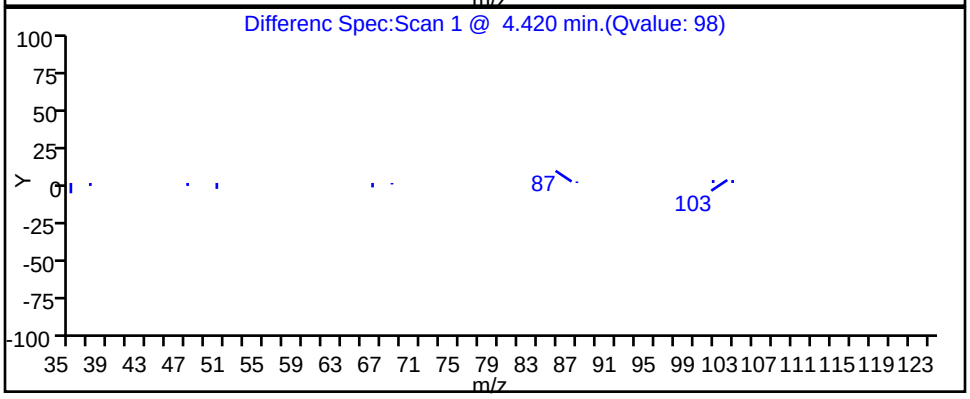












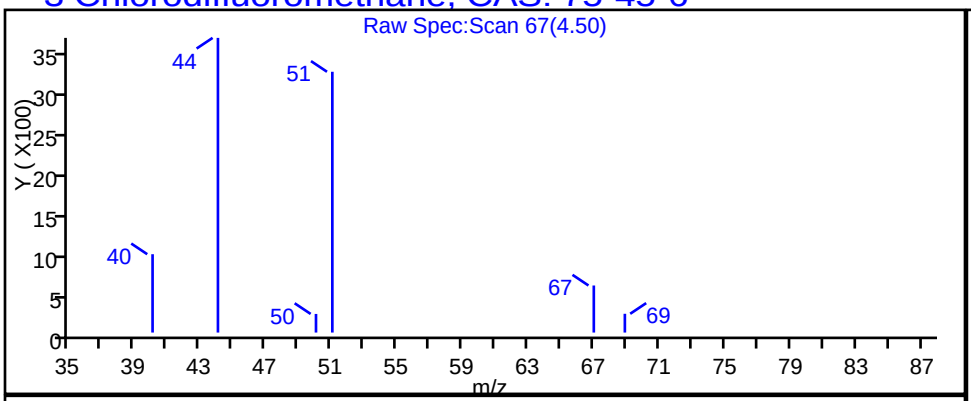
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

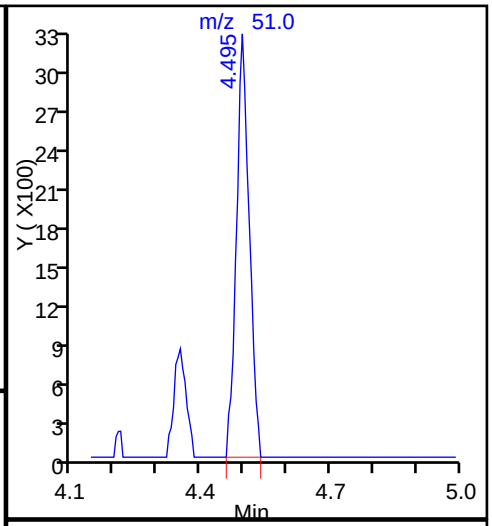
TestAmerica Burlington

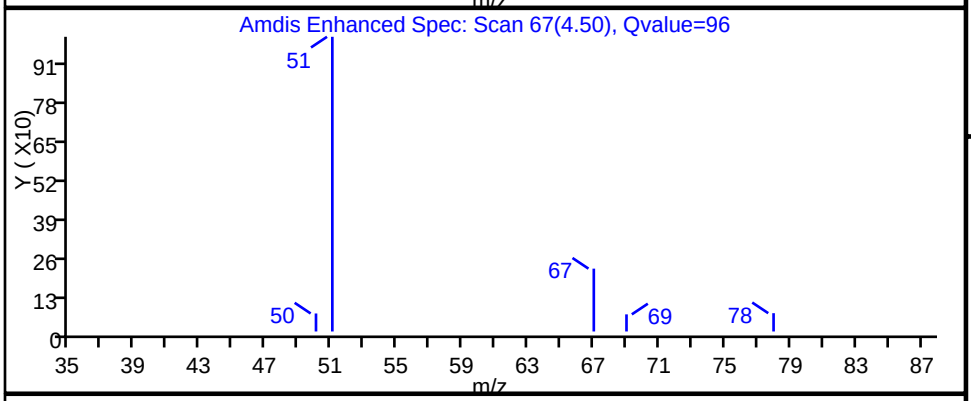
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

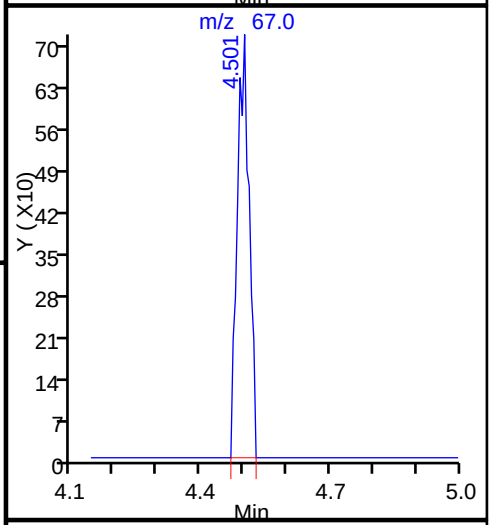
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

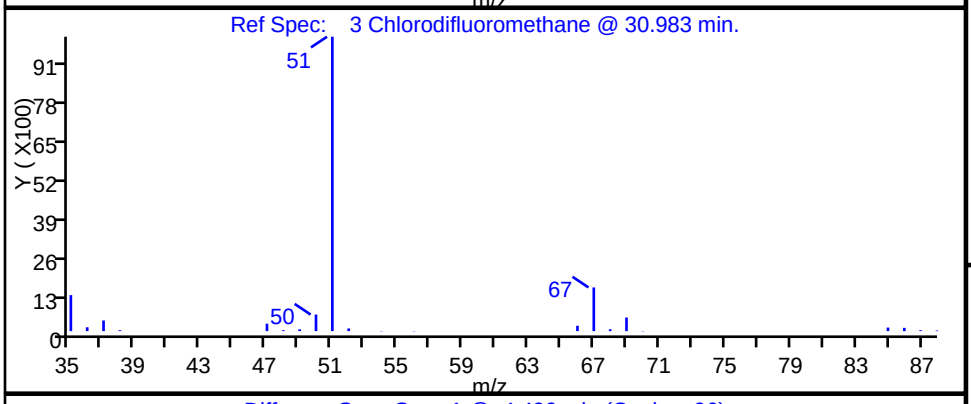
3 Chlorodifluoromethane, CAS: 75-45-6

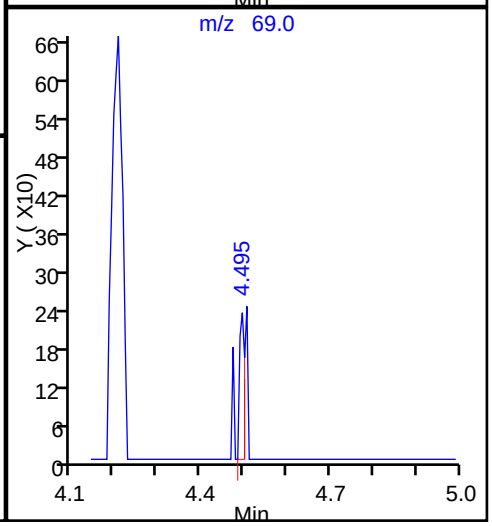


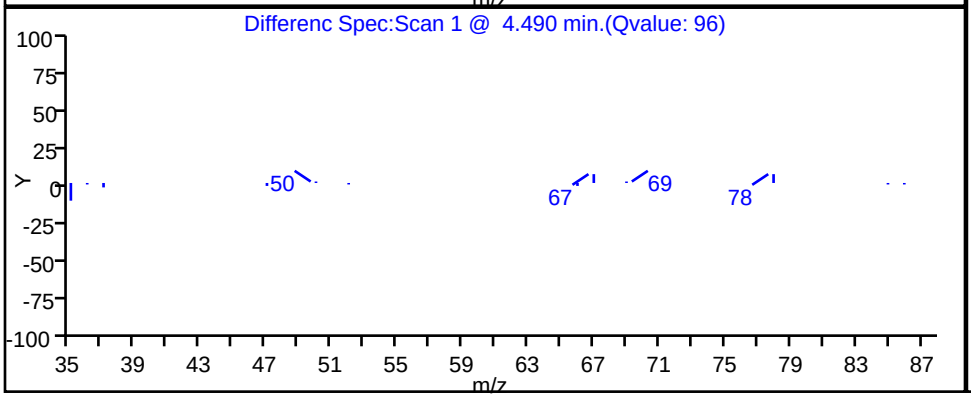












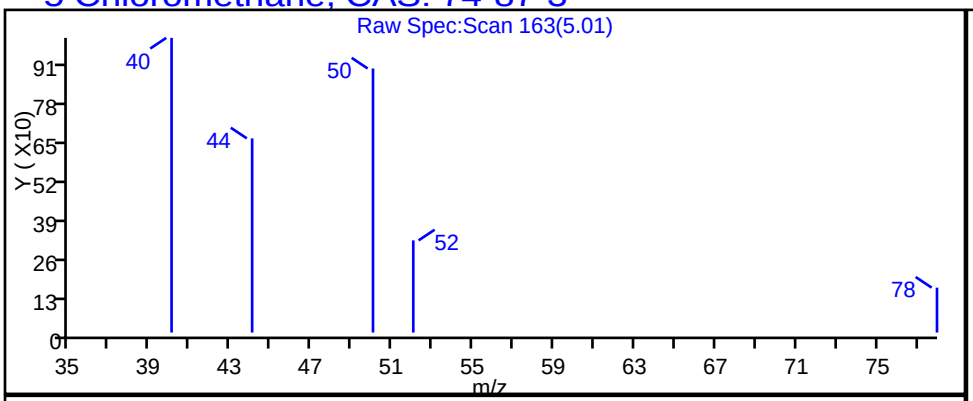
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

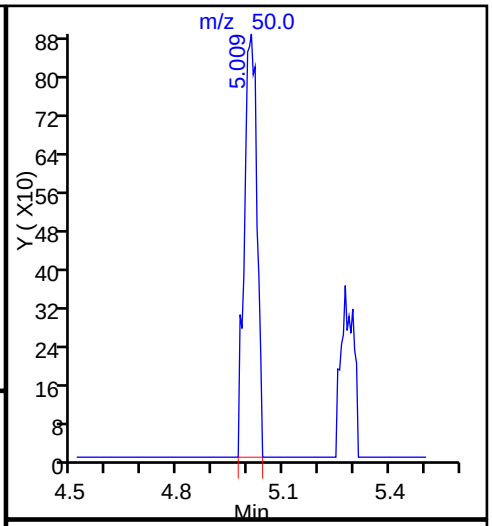
TestAmerica Burlington

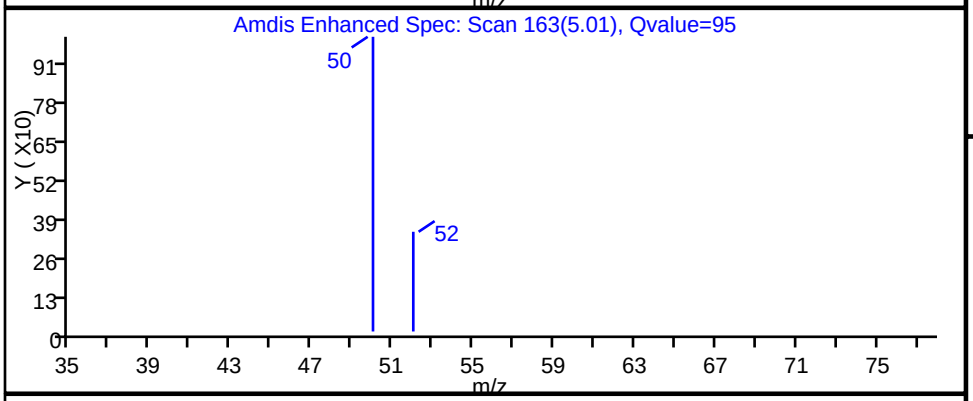
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

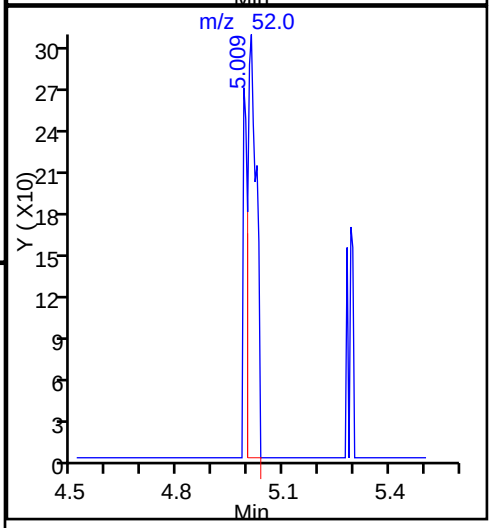
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

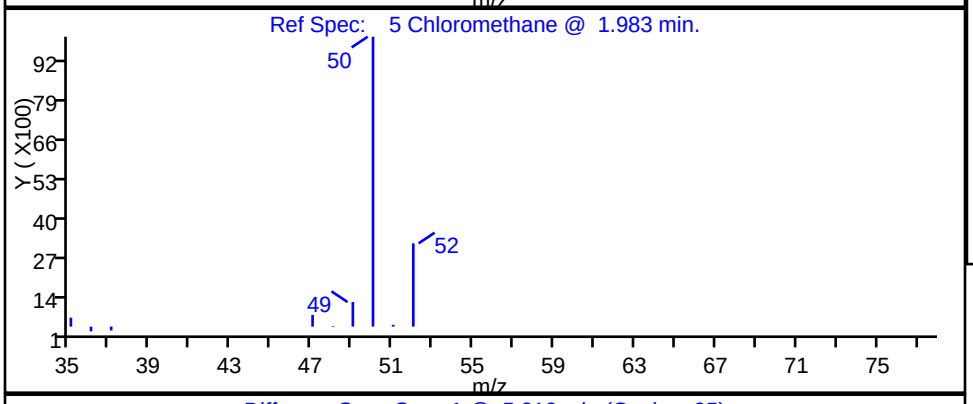
5 Chloromethane, CAS: 74-87-3

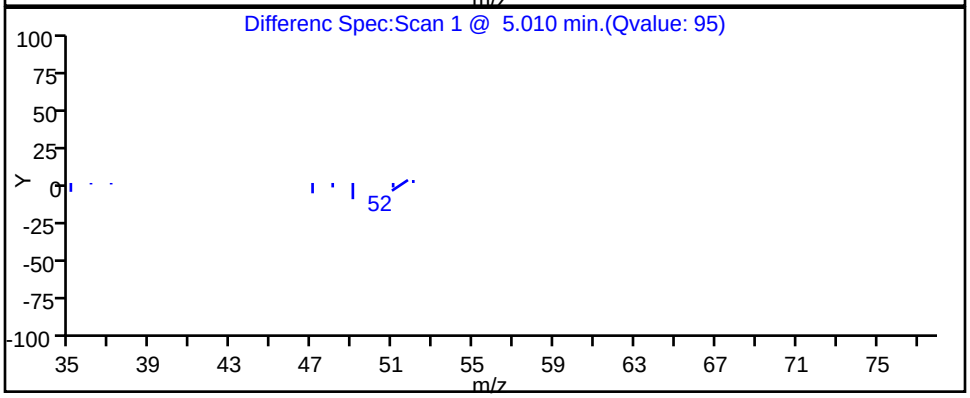










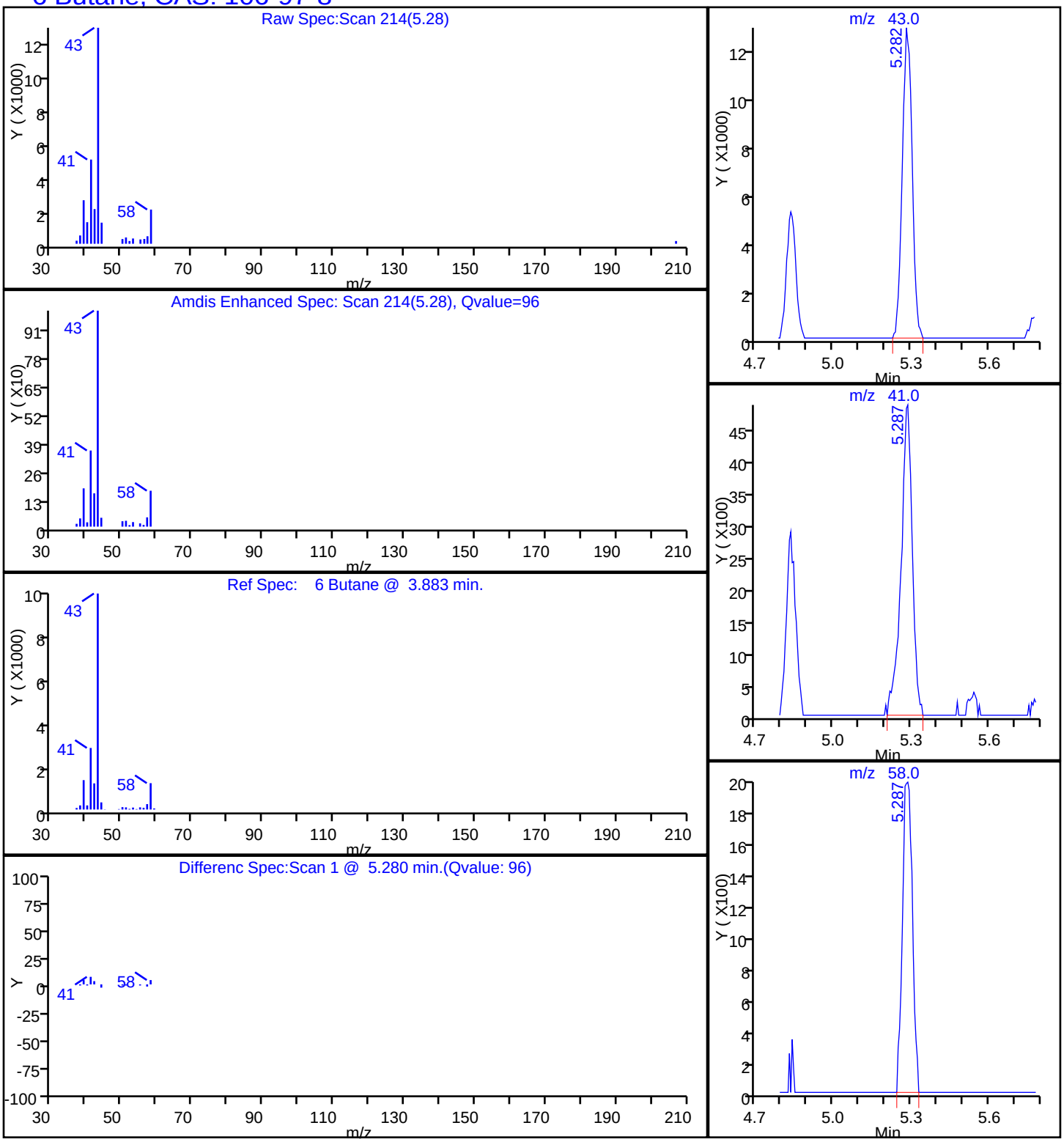


Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

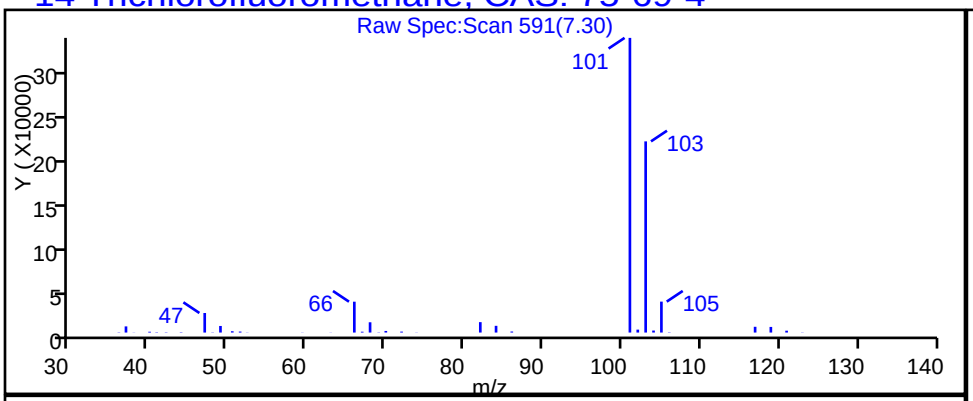


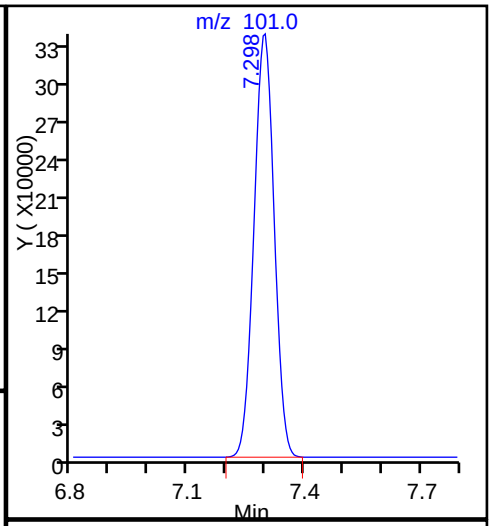
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

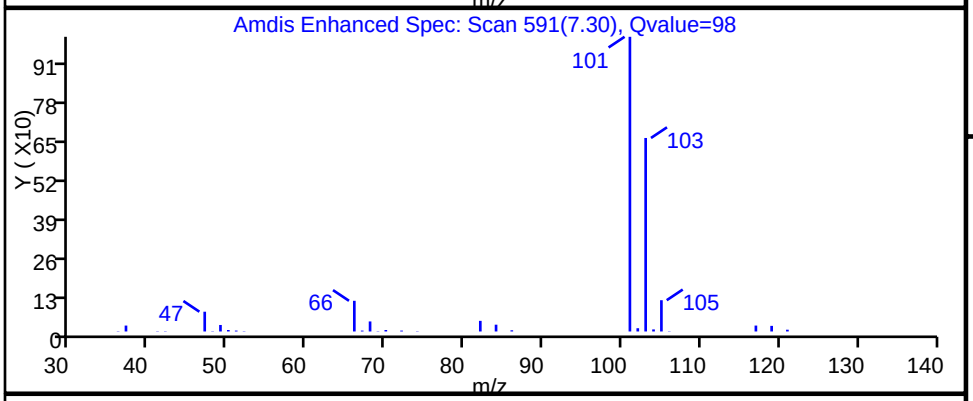
TestAmerica Burlington

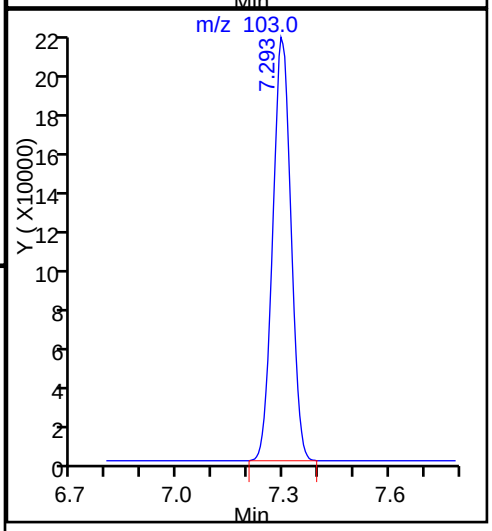
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

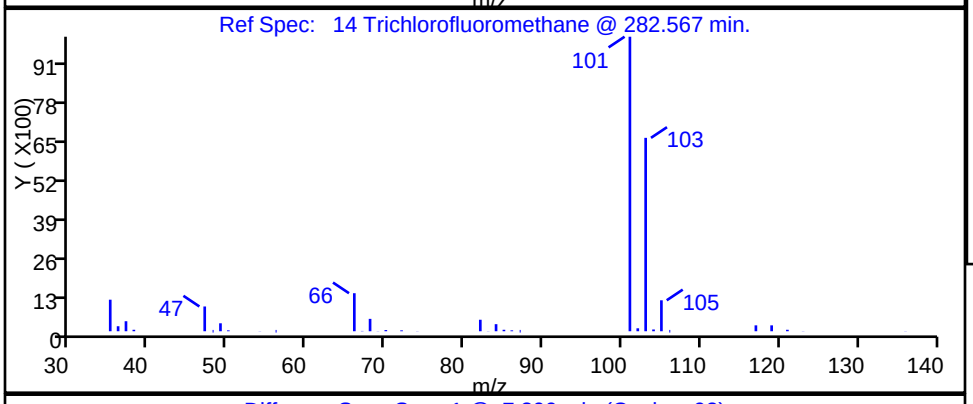
14 Trichlorofluoromethane, CAS: 75-69-4

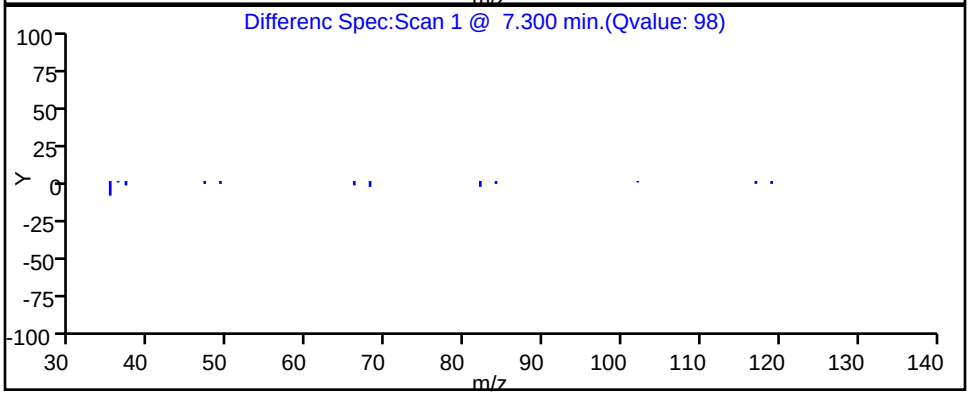












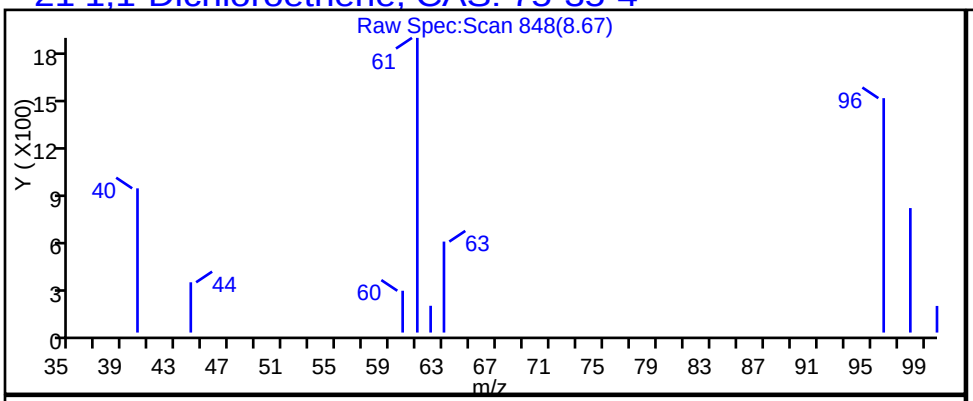
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

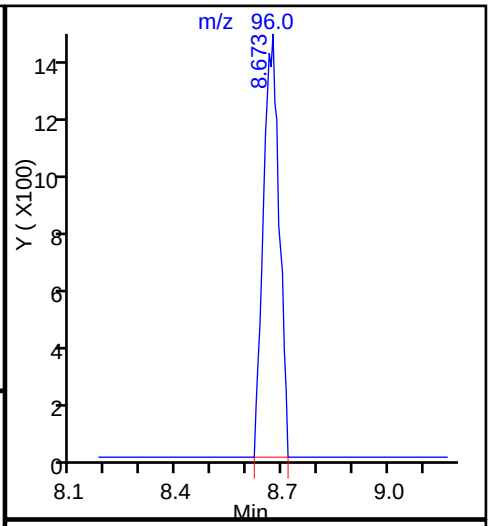
TestAmerica Burlington

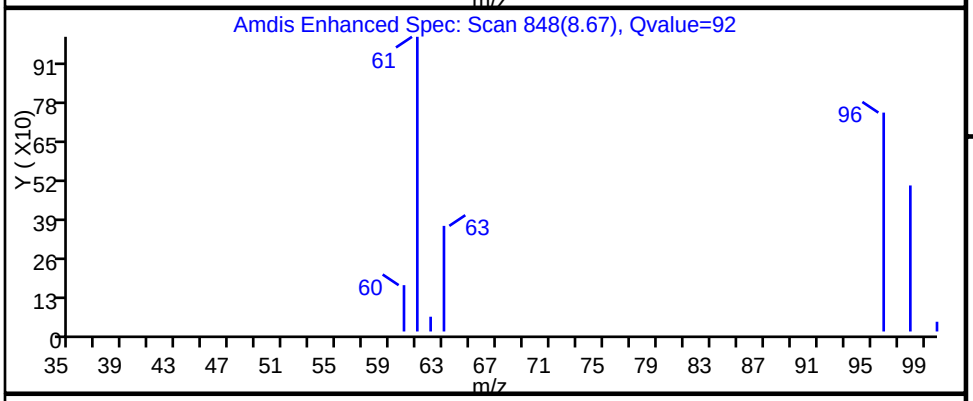
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

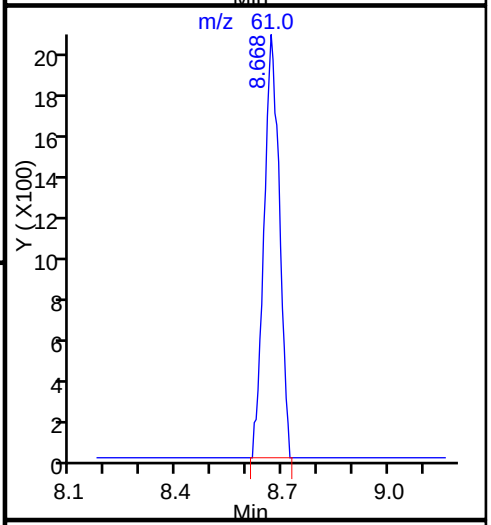
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

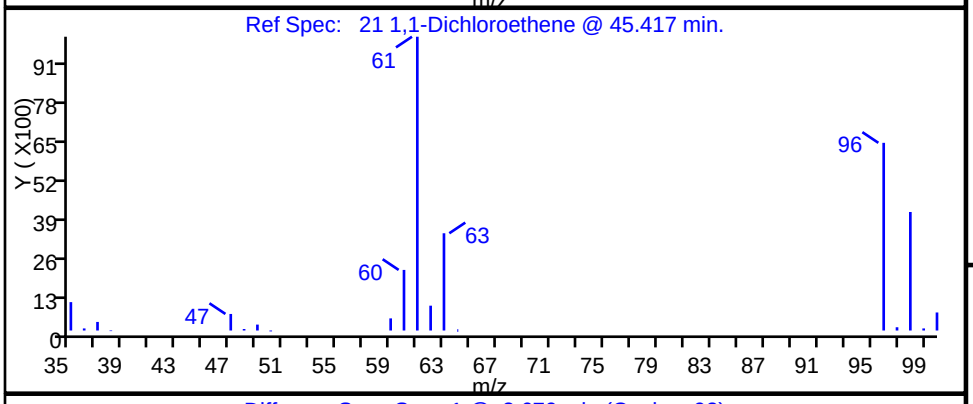
21 1,1-Dichloroethene, CAS: 75-35-4

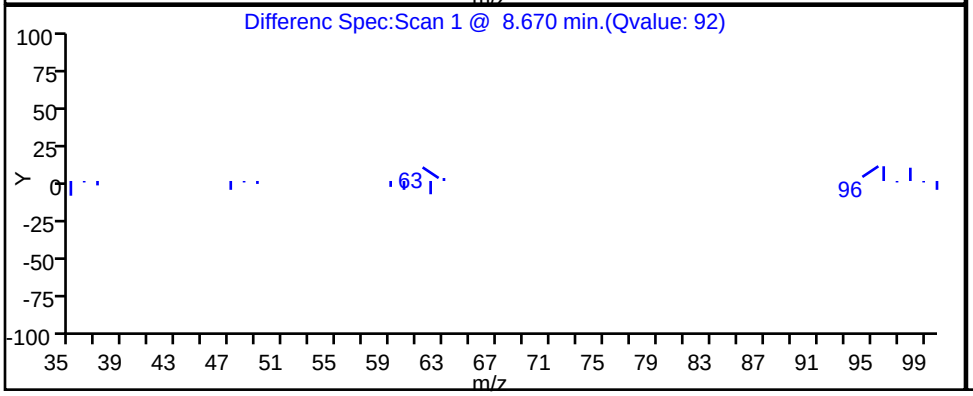


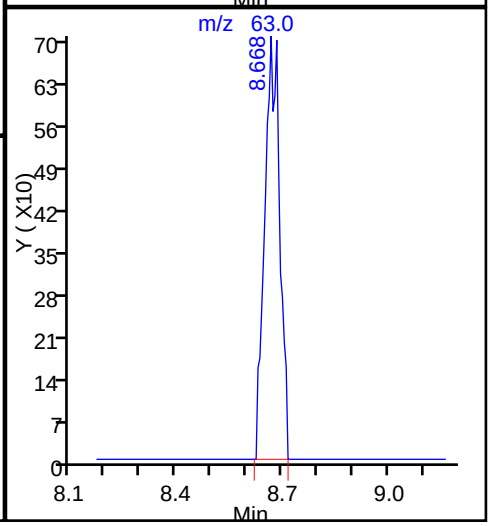










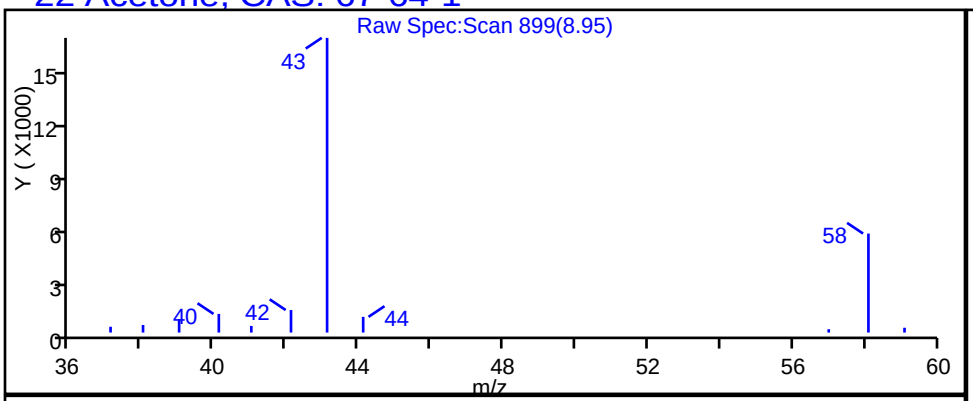


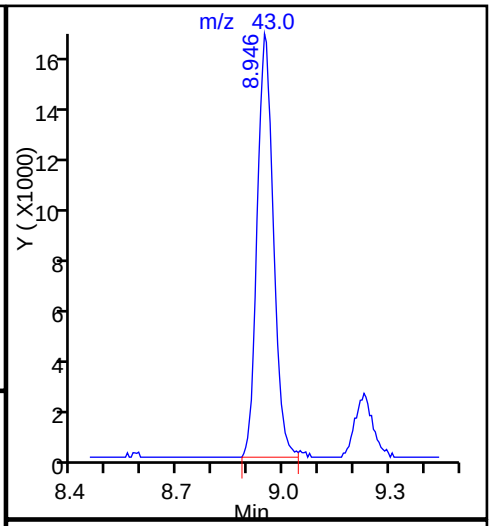
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

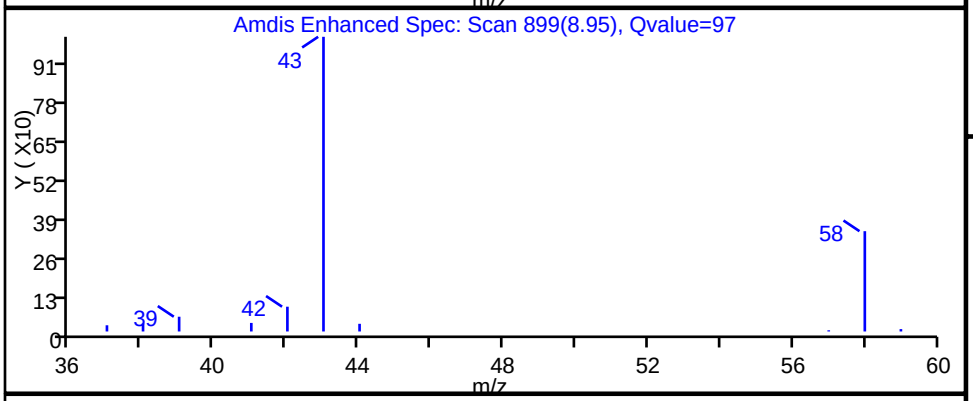
TestAmerica Burlington

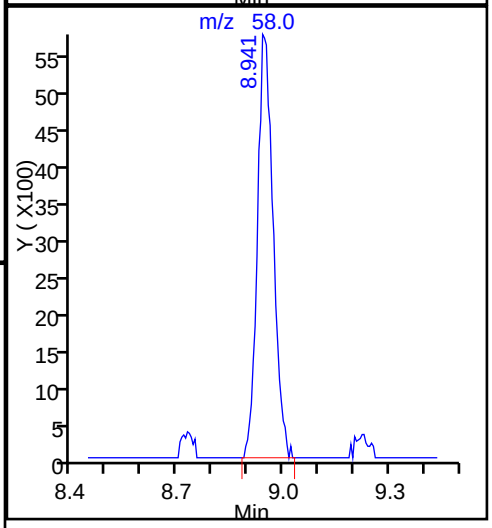
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

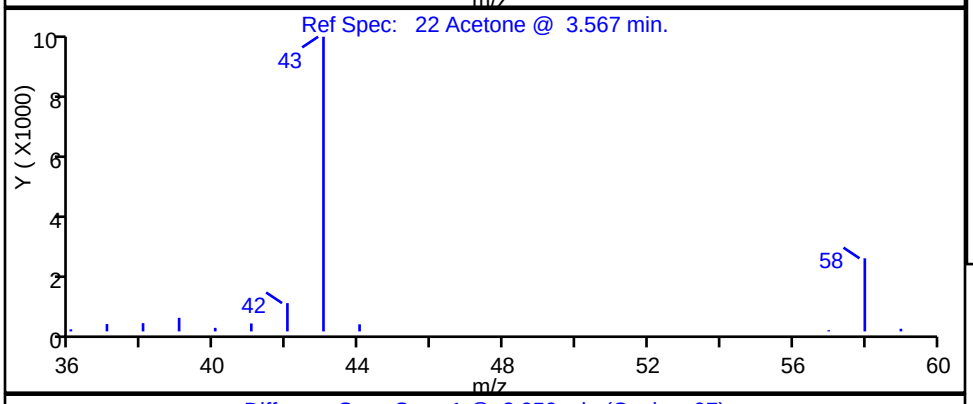
22 Acetone, CAS: 67-64-1

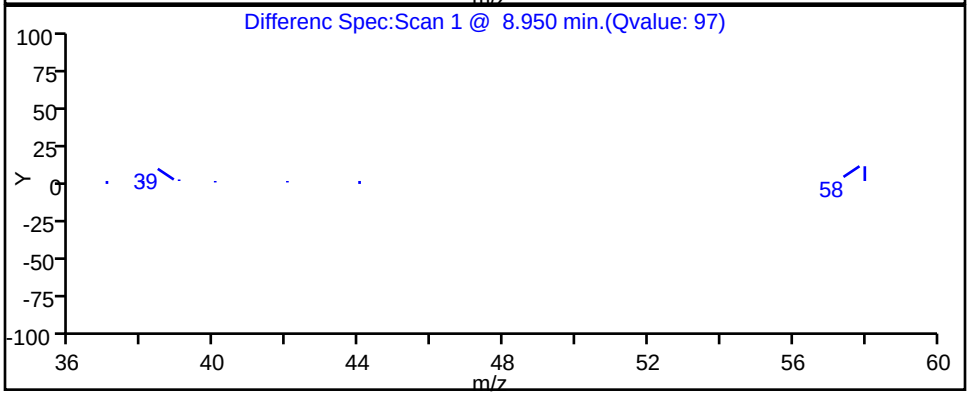










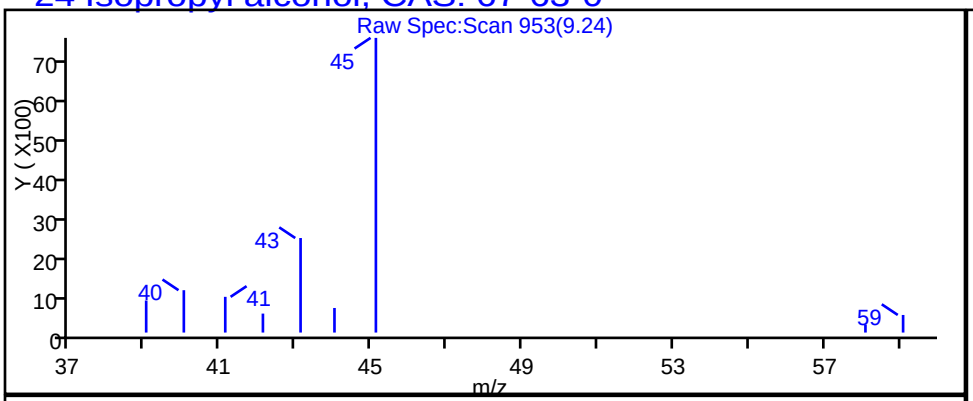


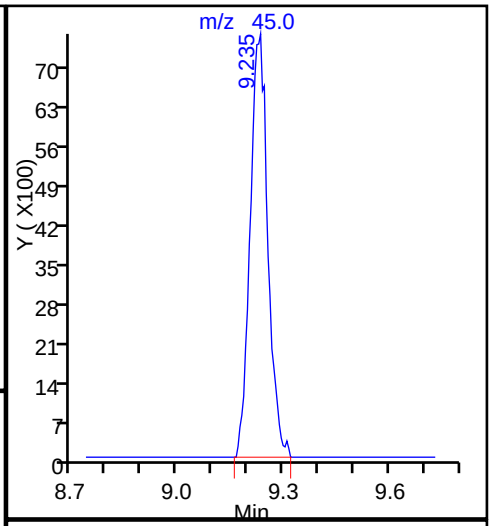
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

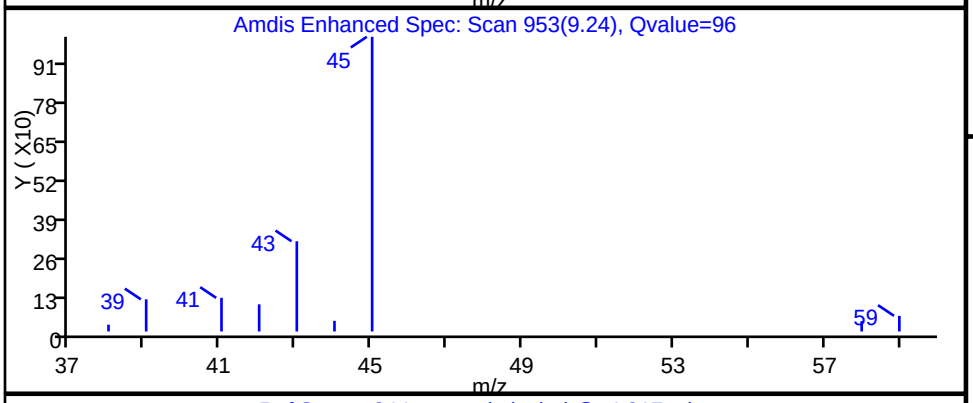
TestAmerica Burlington

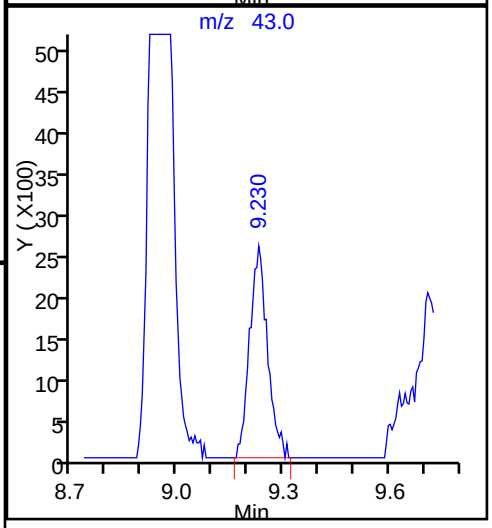
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

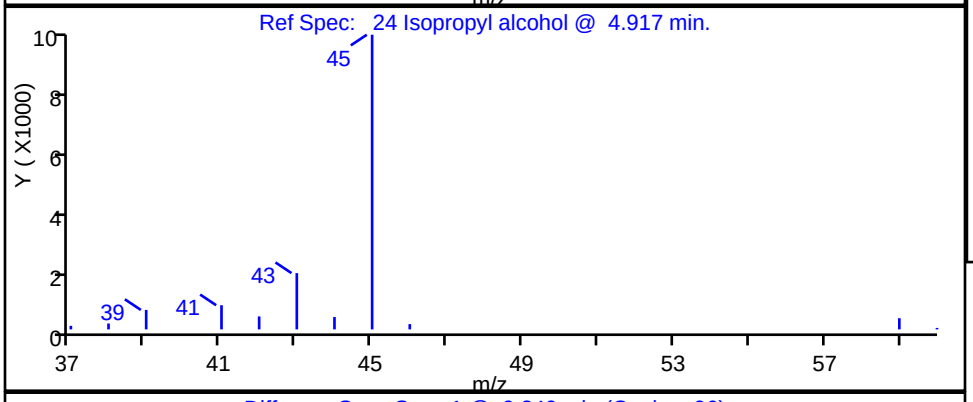
24 Isopropyl alcohol, CAS: 67-63-0

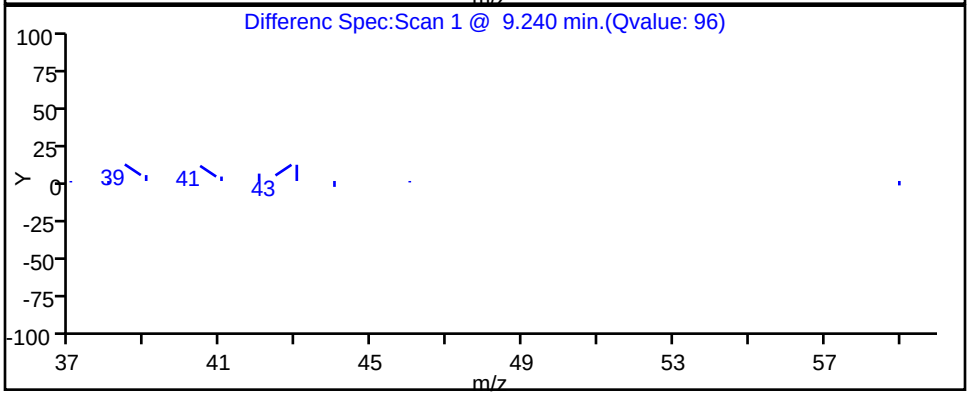












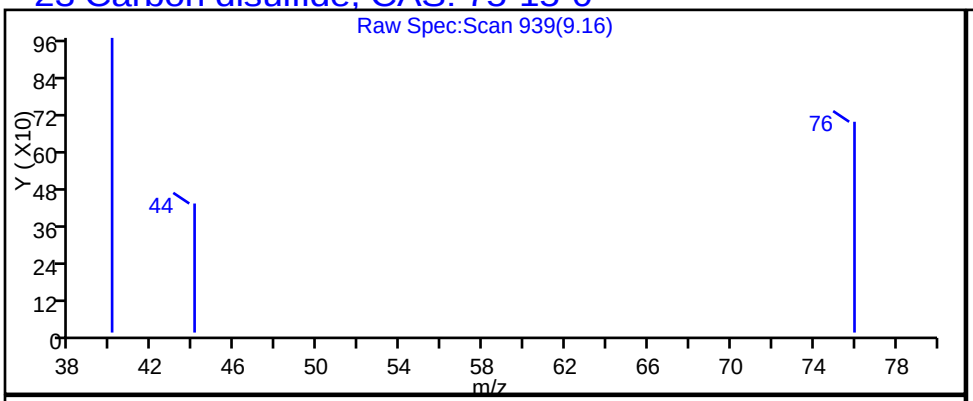
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

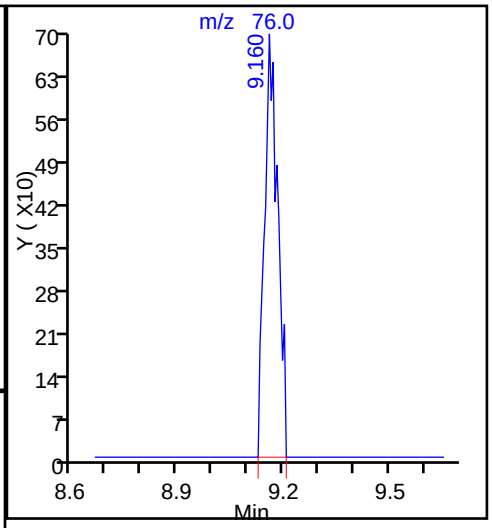
TestAmerica Burlington

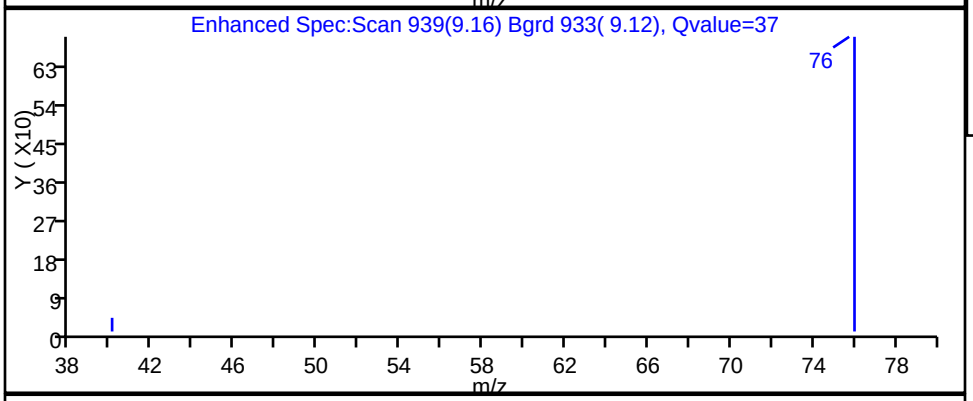
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

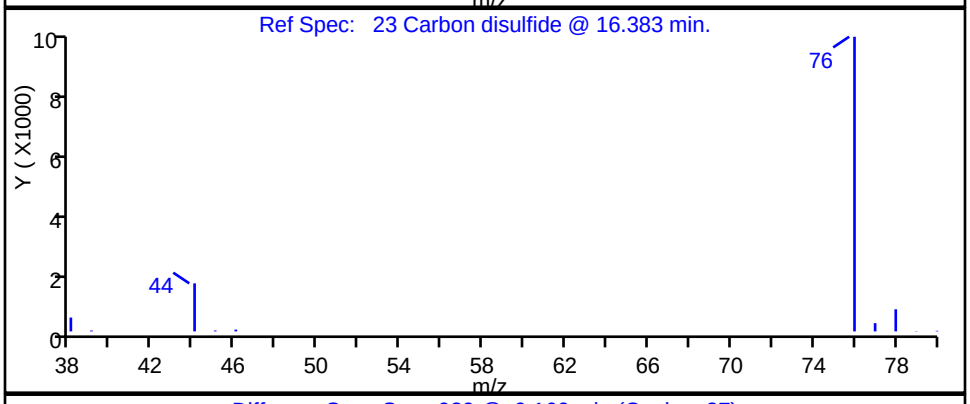
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

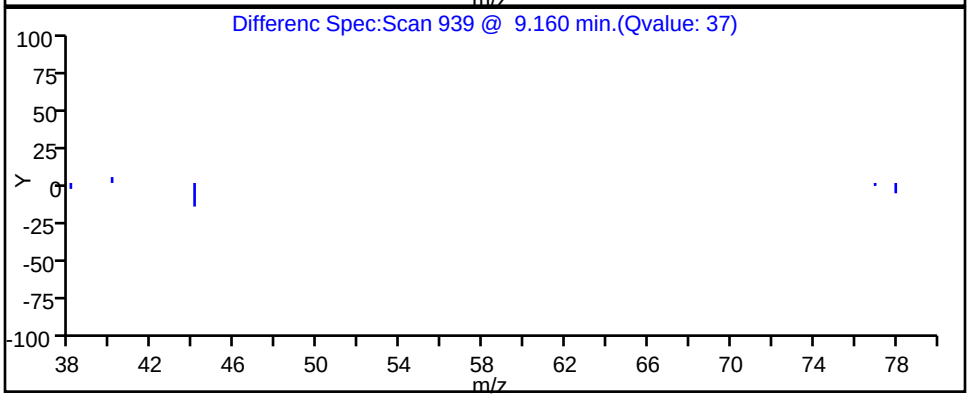
23 Carbon disulfide, CAS: 75-15-0









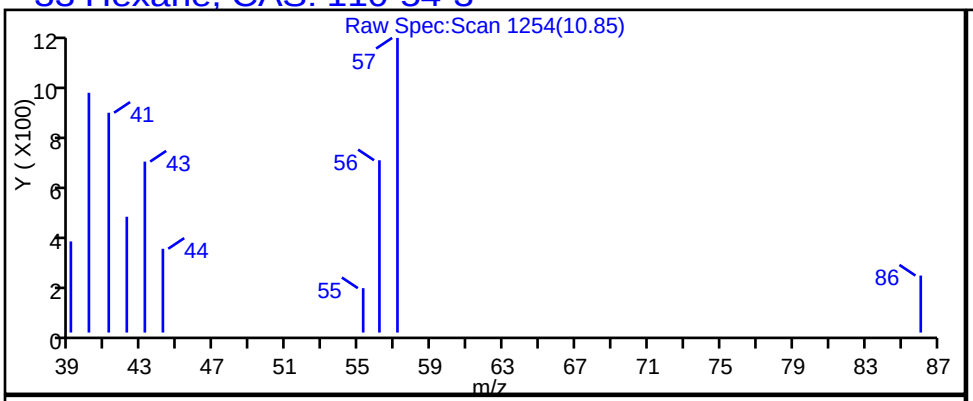


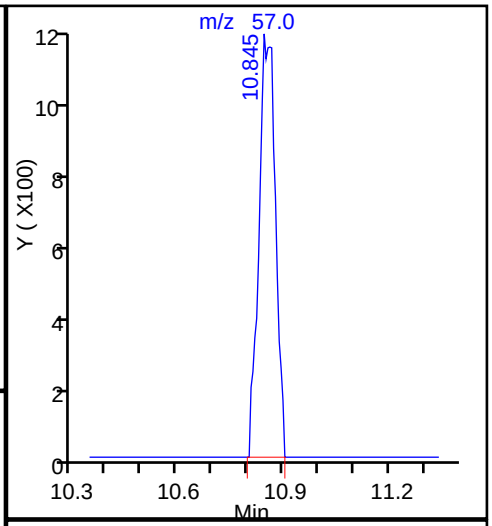
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

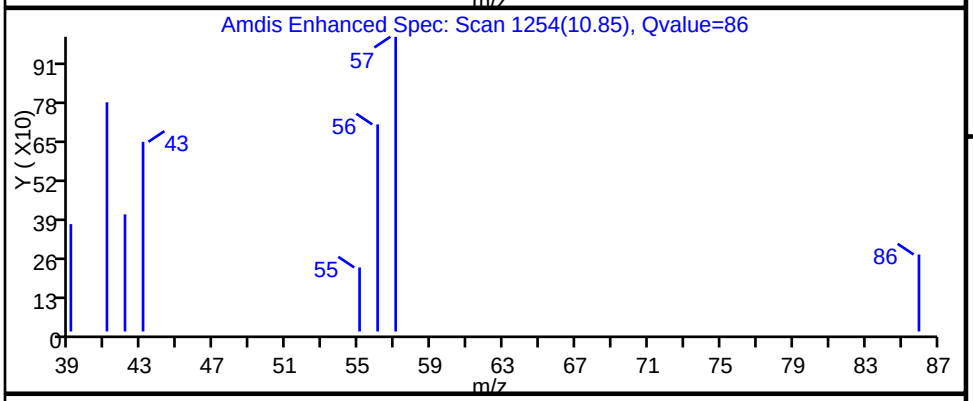
TestAmerica Burlington

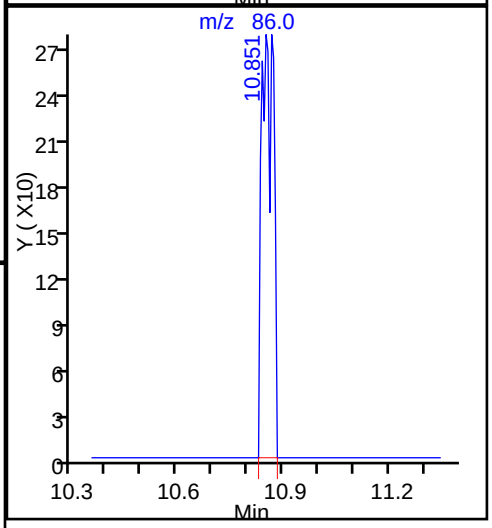
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

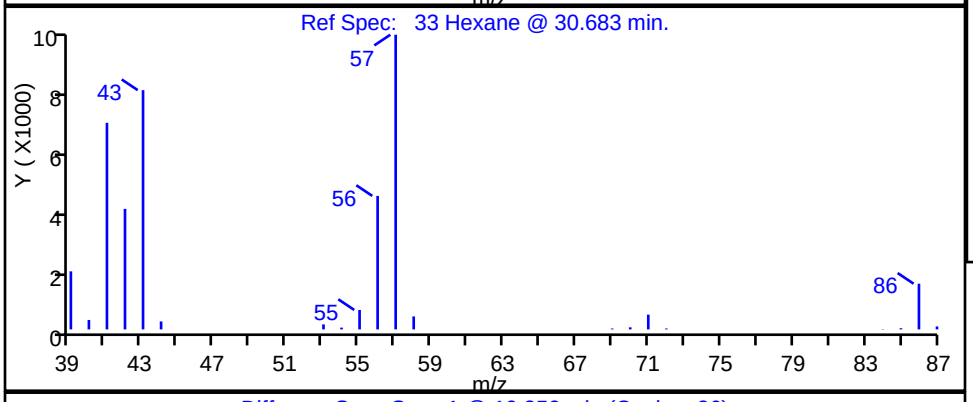
33 Hexane, CAS: 110-54-3

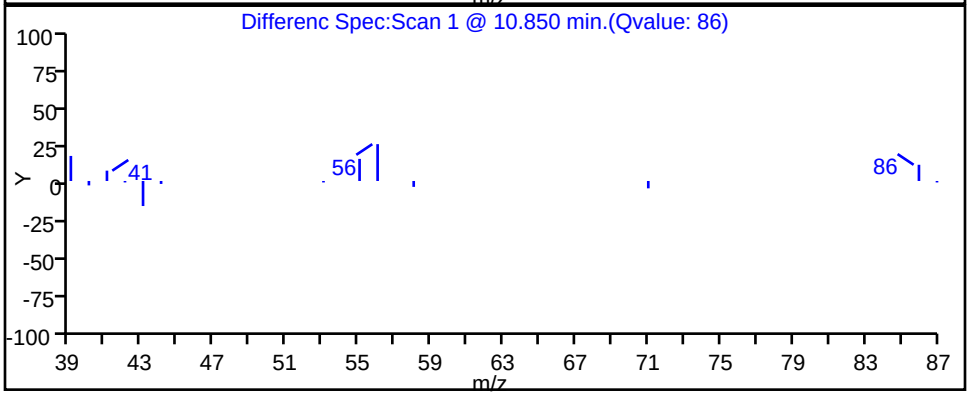












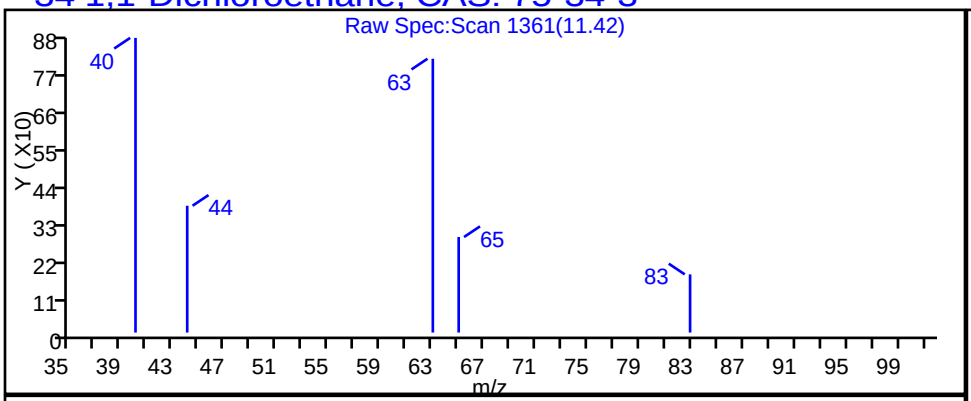
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

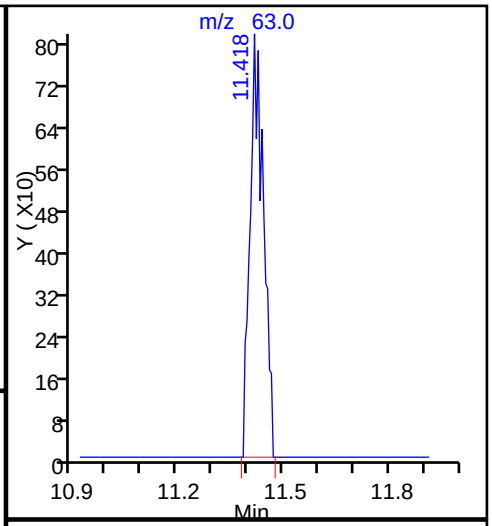
TestAmerica Burlington

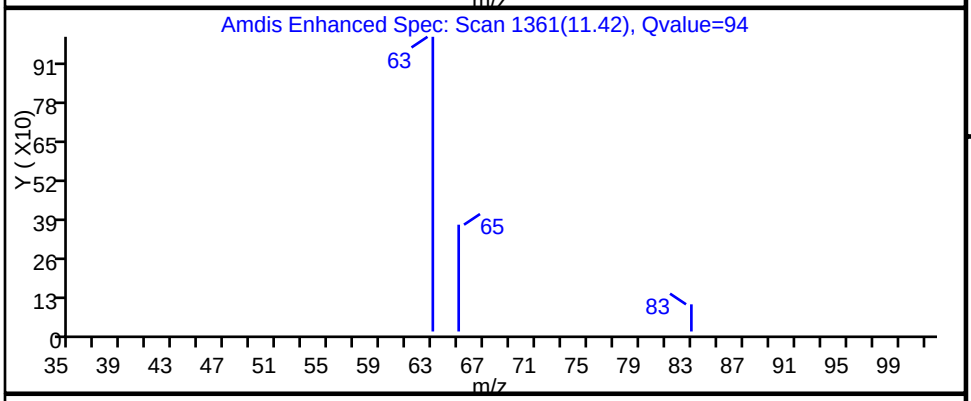
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

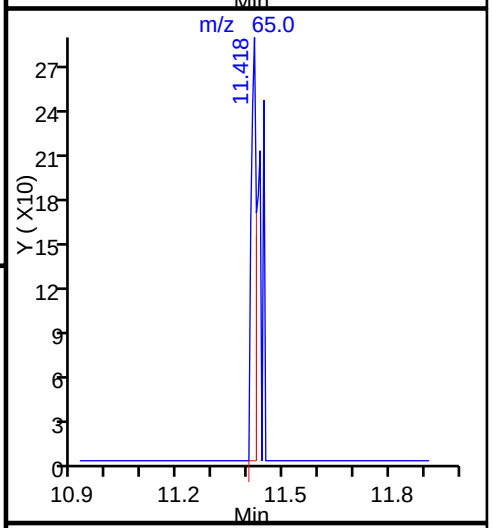
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

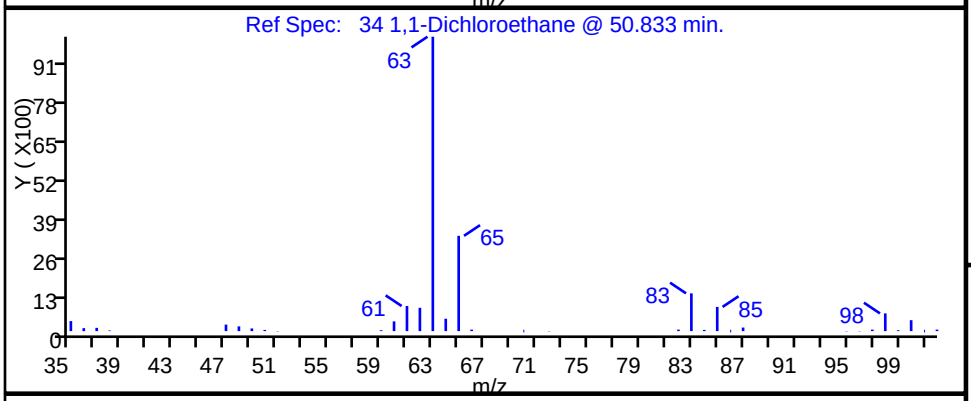
34 1,1-Dichloroethane, CAS: 75-34-3

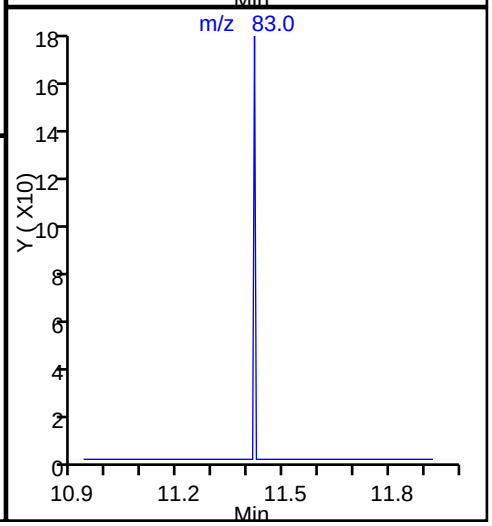


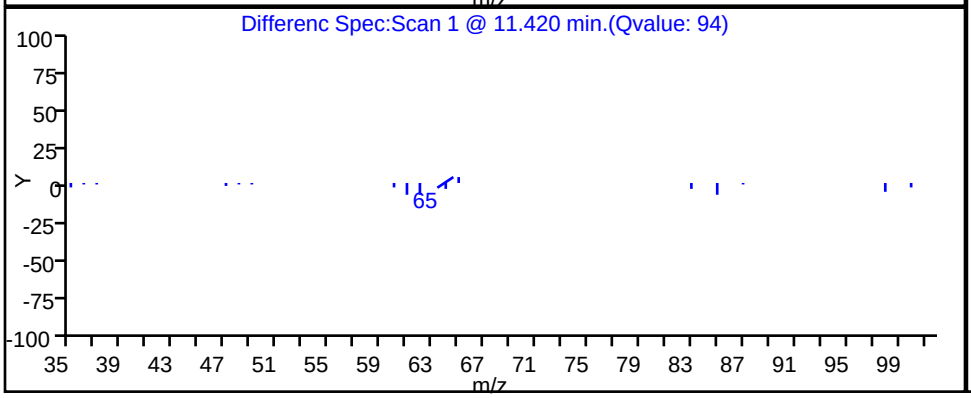










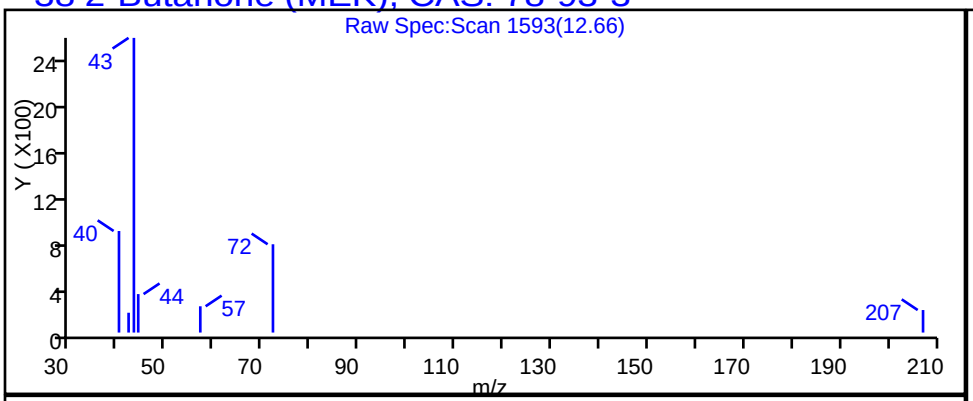


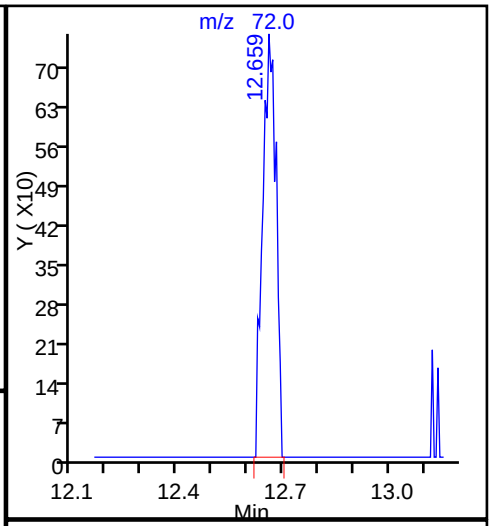
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

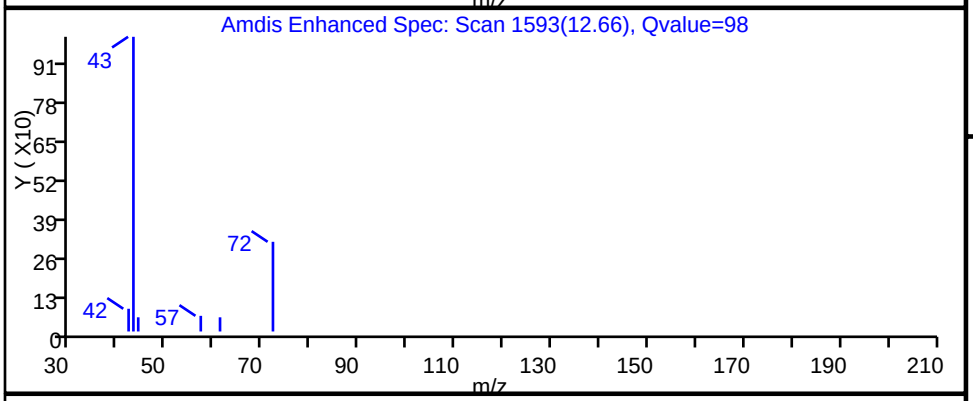
TestAmerica Burlington

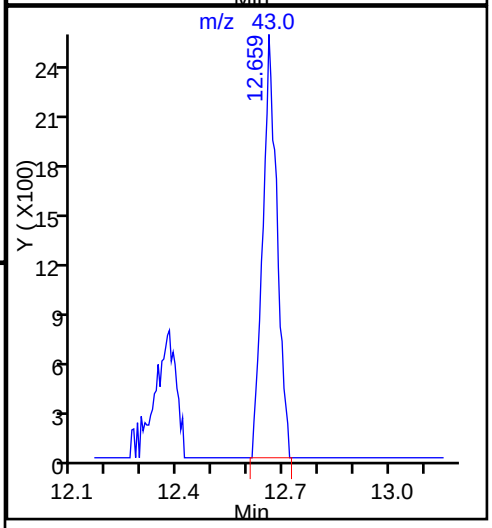
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

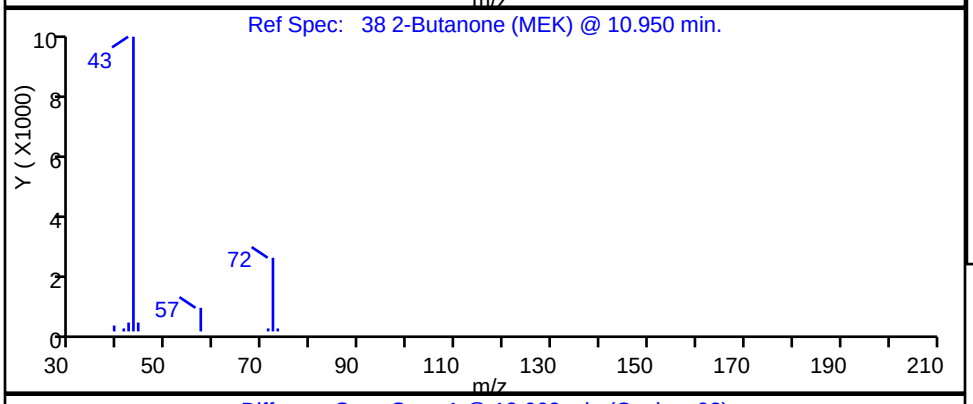
38 2-Butanone (MEK), CAS: 78-93-3

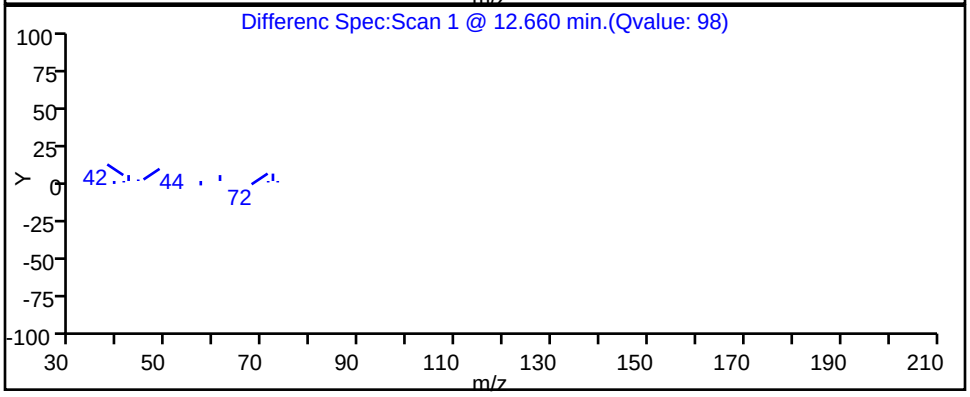












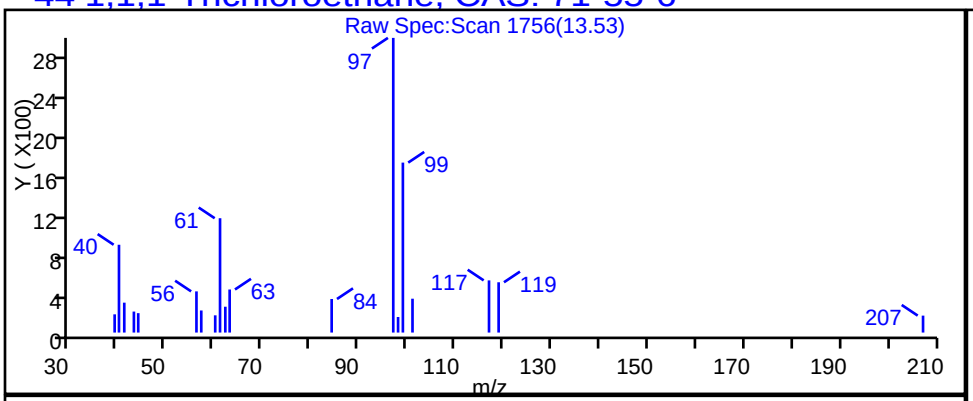
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

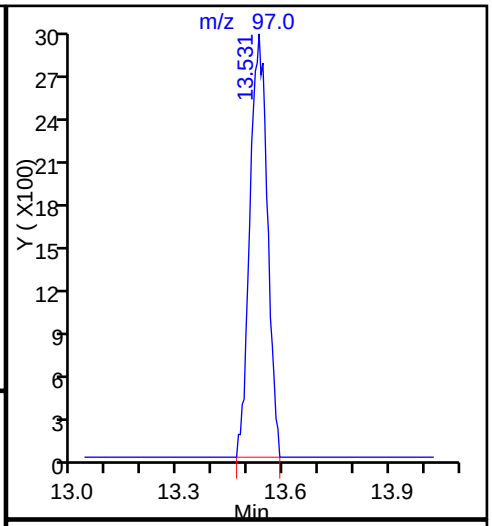
TestAmerica Burlington

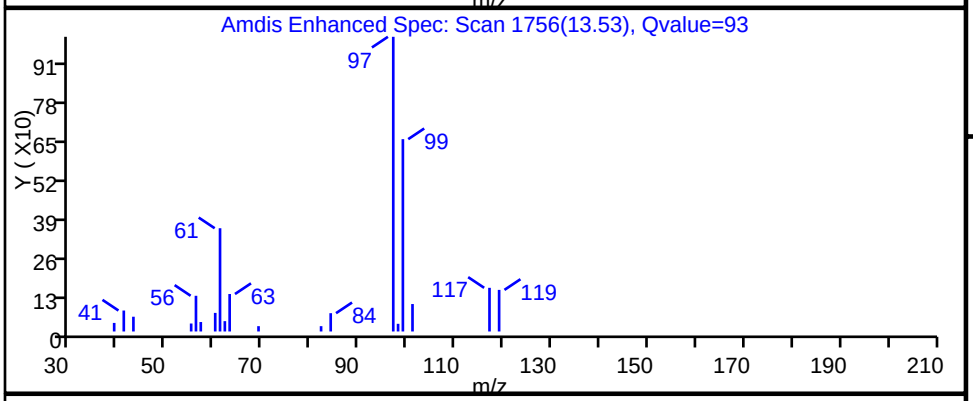
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

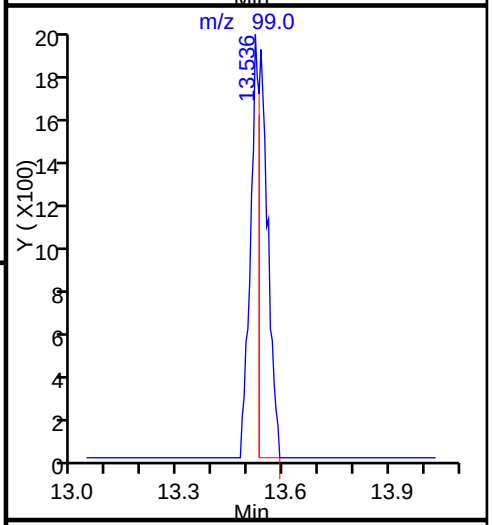
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

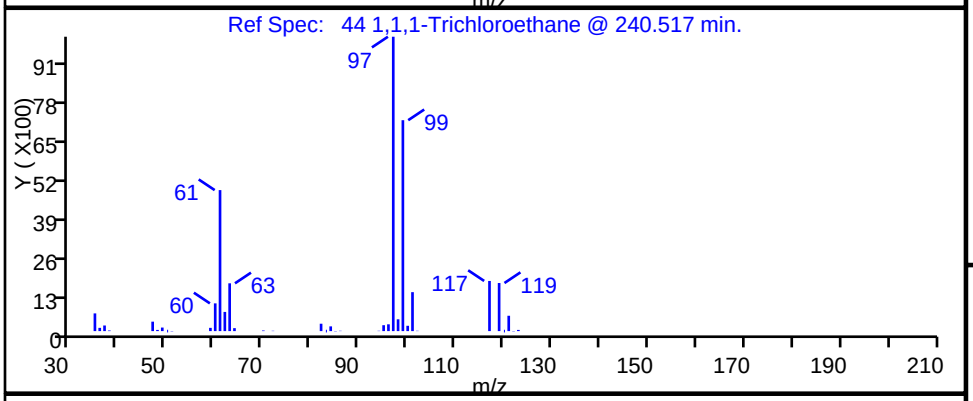
44 1,1,1-Trichloroethane, CAS: 71-55-6

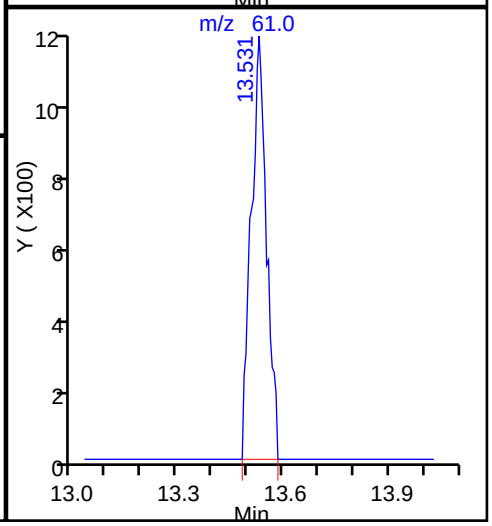


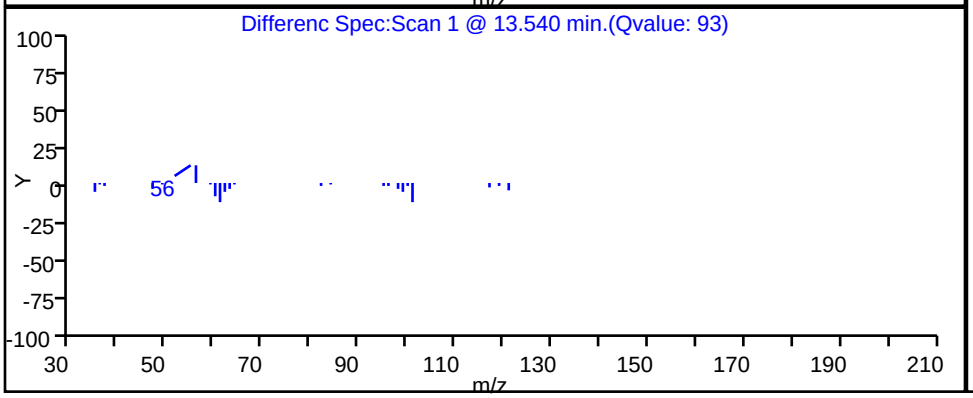












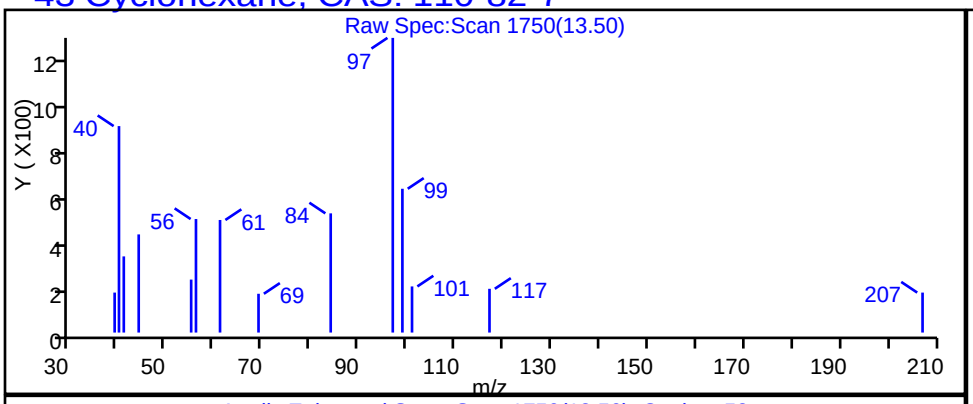
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

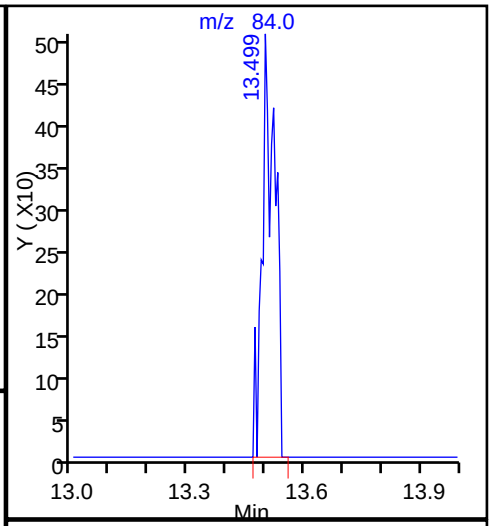
TestAmerica Burlington

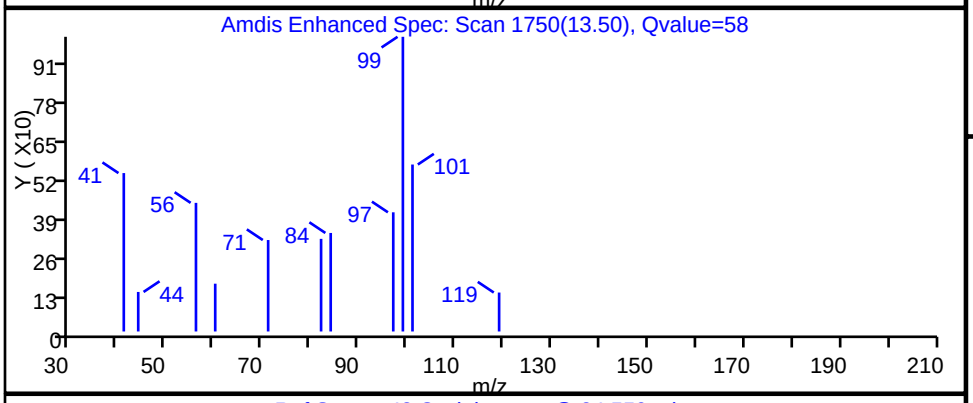
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

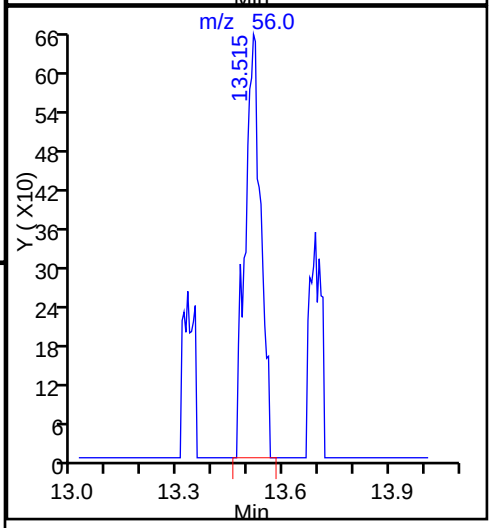
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

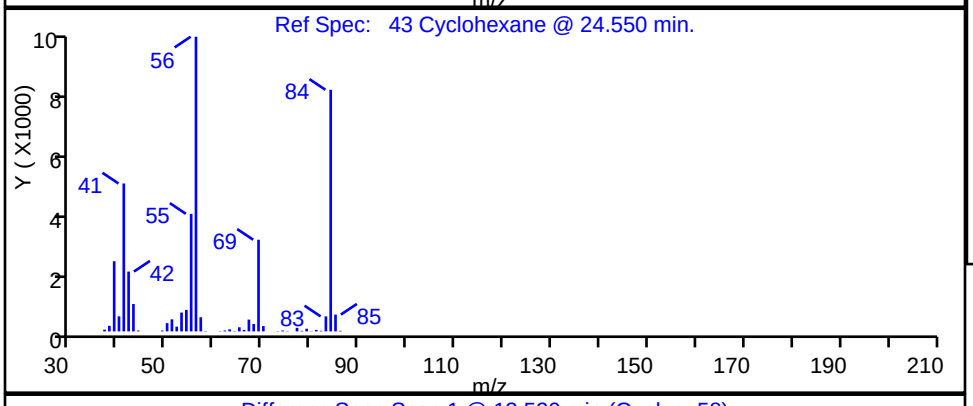
43 Cyclohexane, CAS: 110-82-7

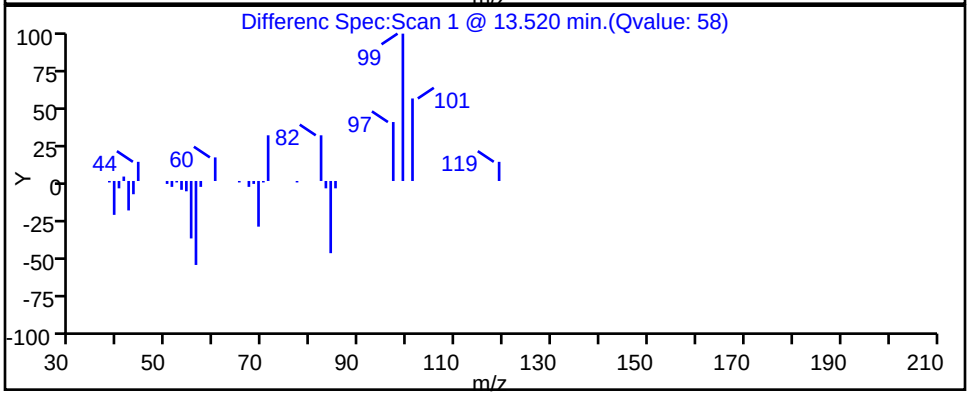










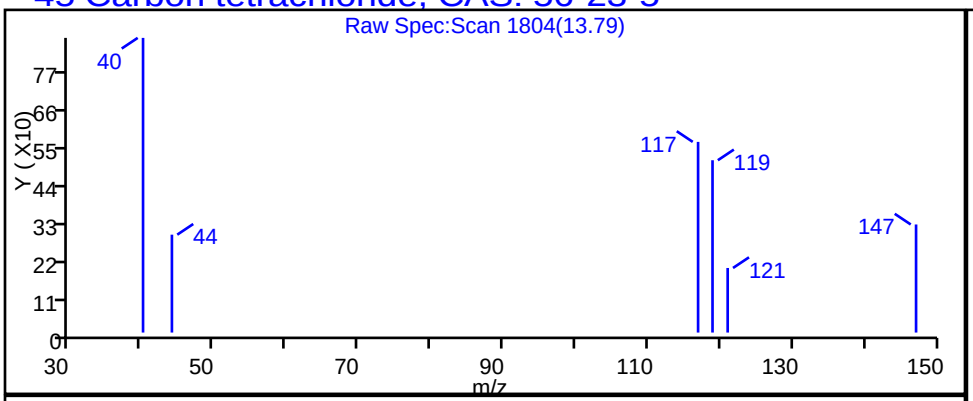


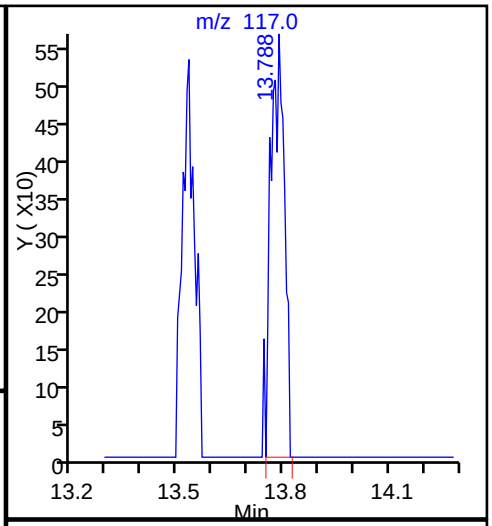
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

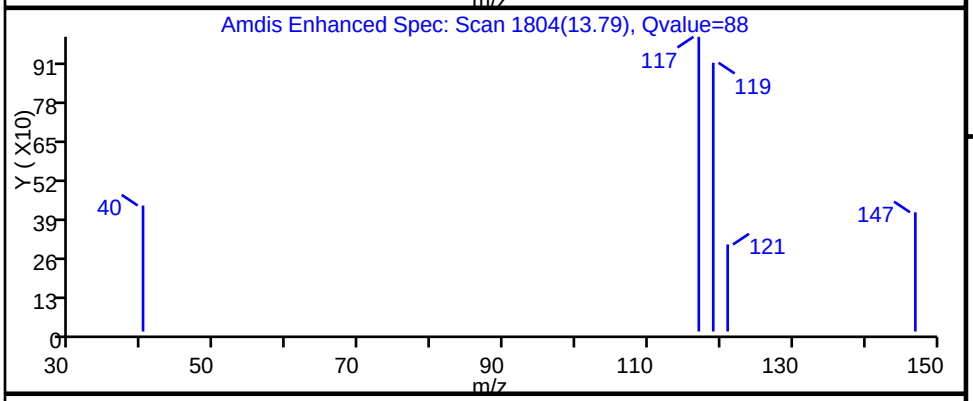
TestAmerica Burlington

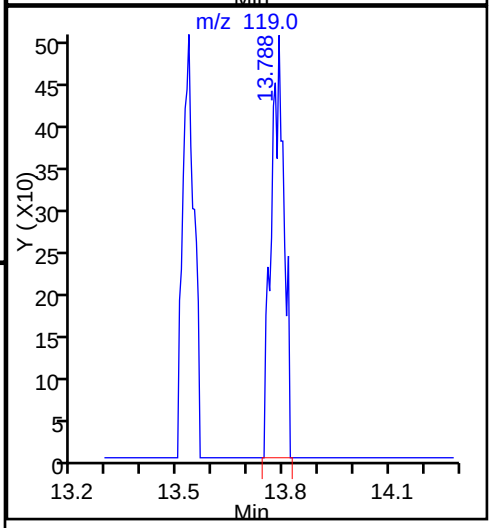
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

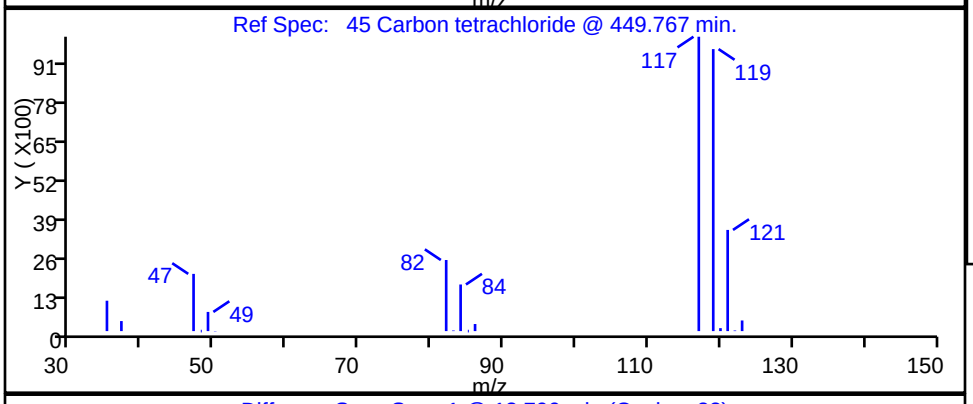
45 Carbon tetrachloride, CAS: 56-23-5

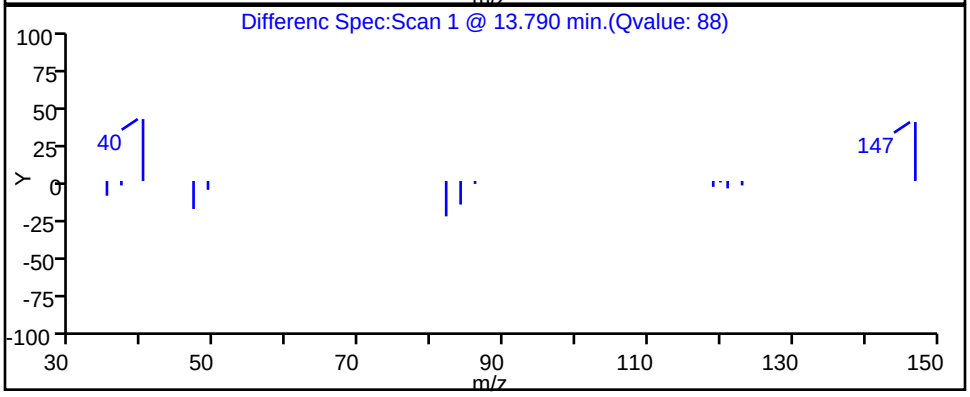












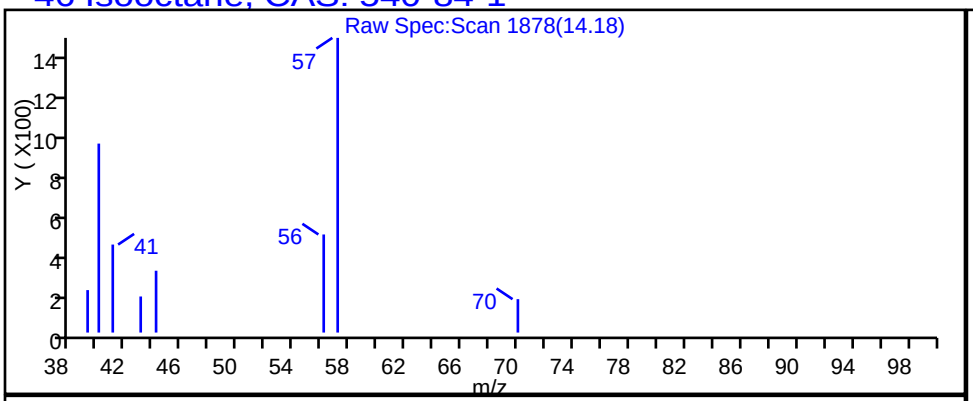
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

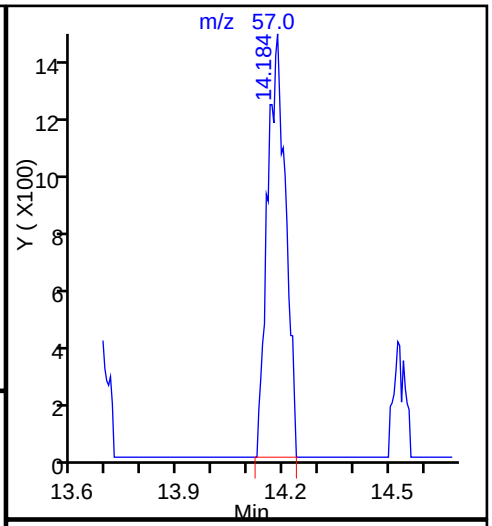
TestAmerica Burlington

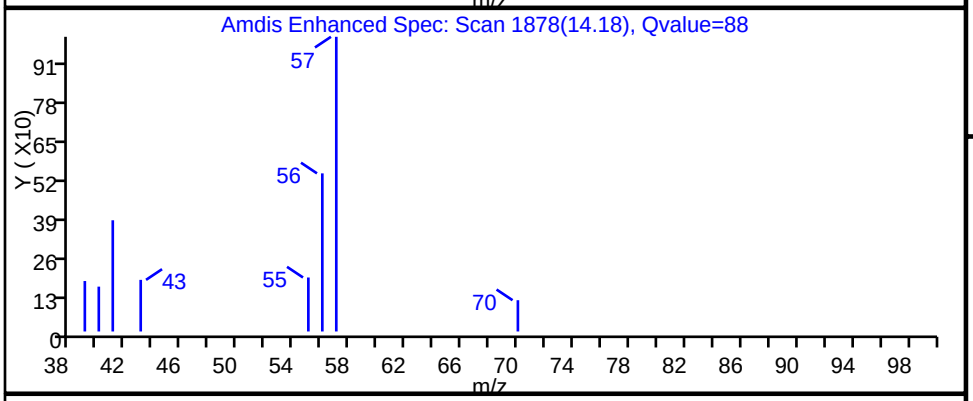
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

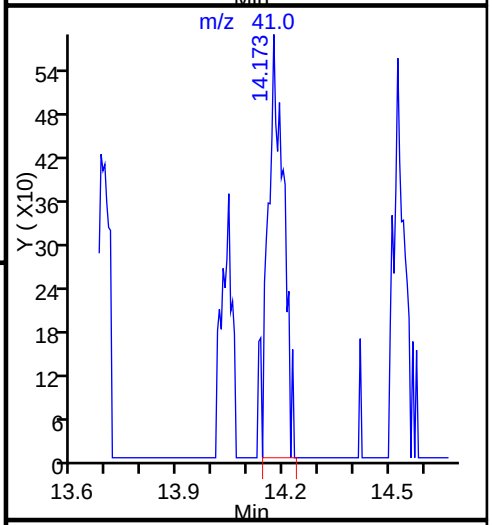
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

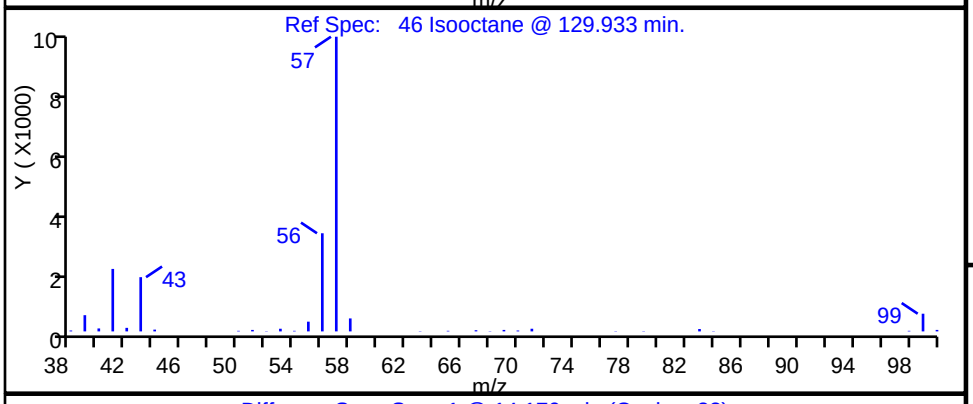
46 Isooctane, CAS: 540-84-1

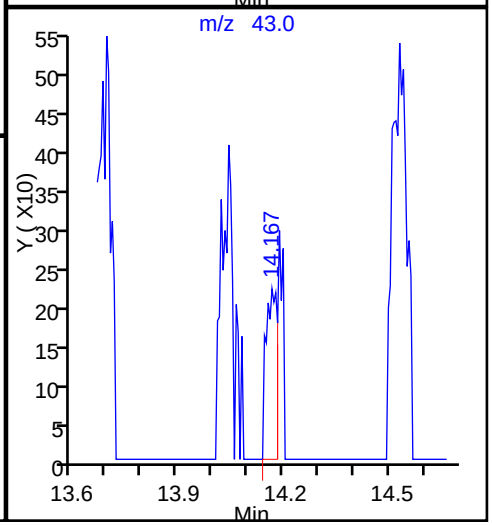


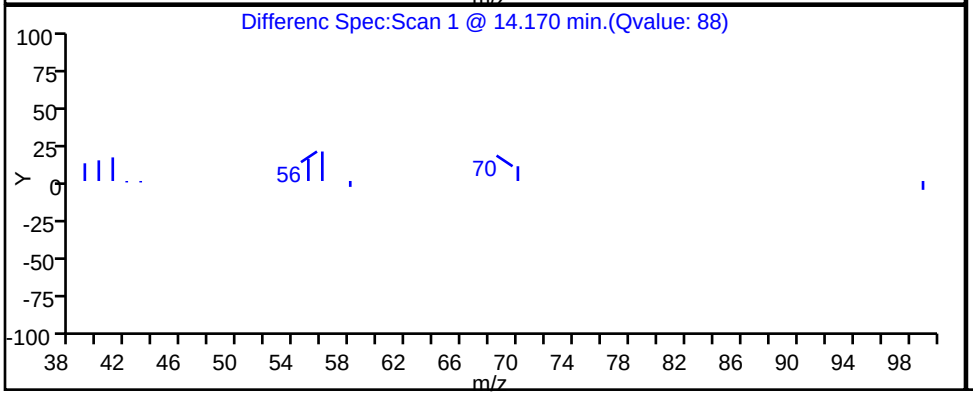










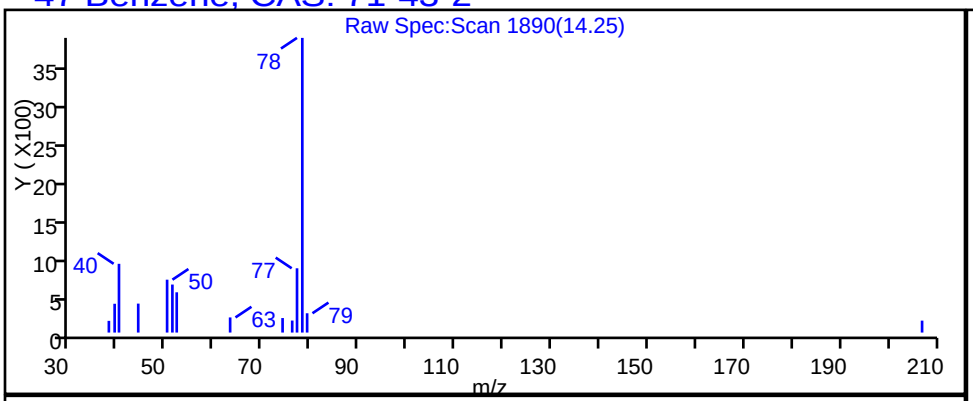


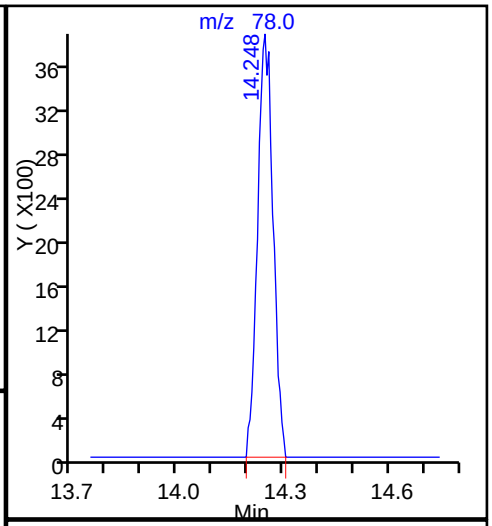
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

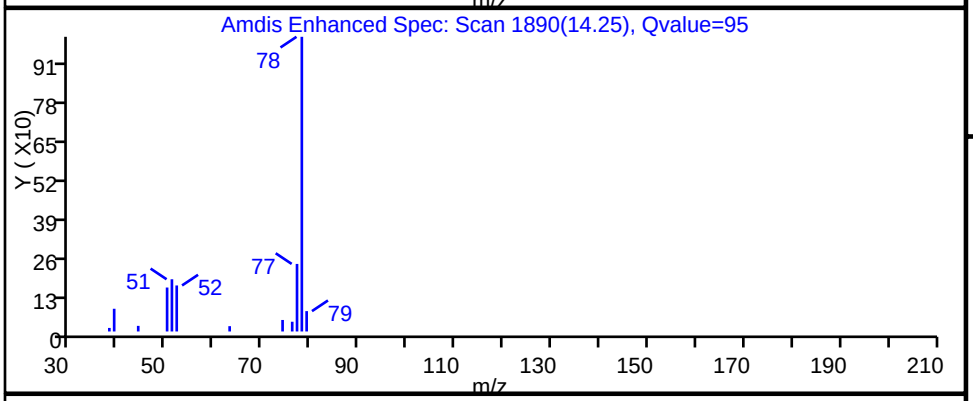
TestAmerica Burlington

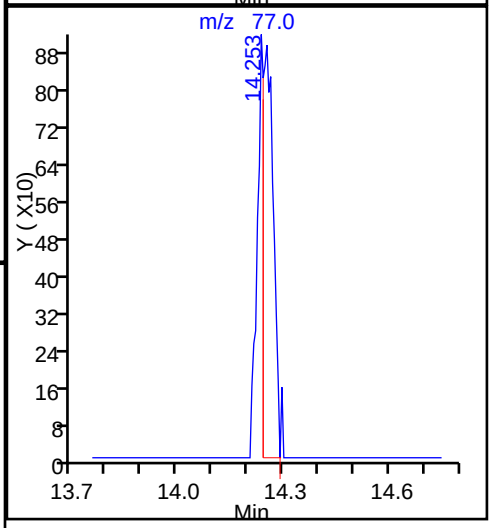
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

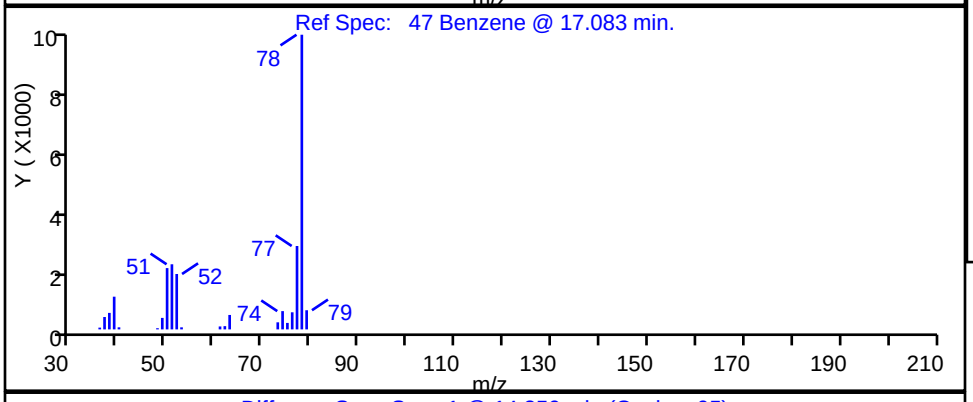
47 Benzene, CAS: 71-43-2

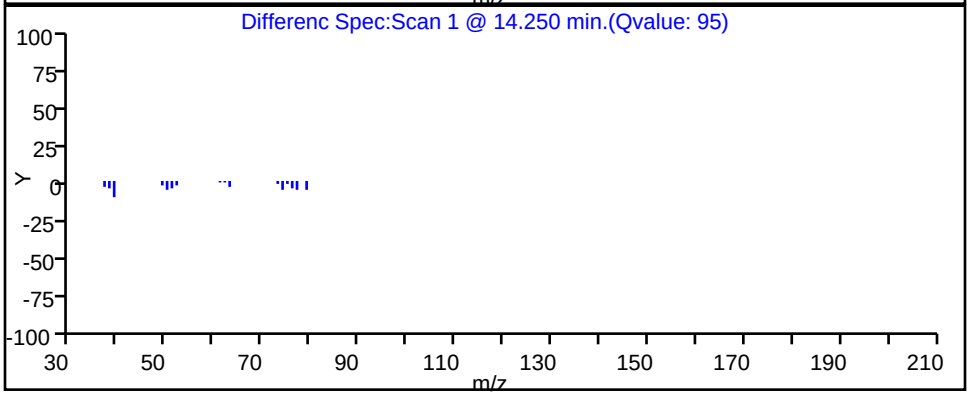












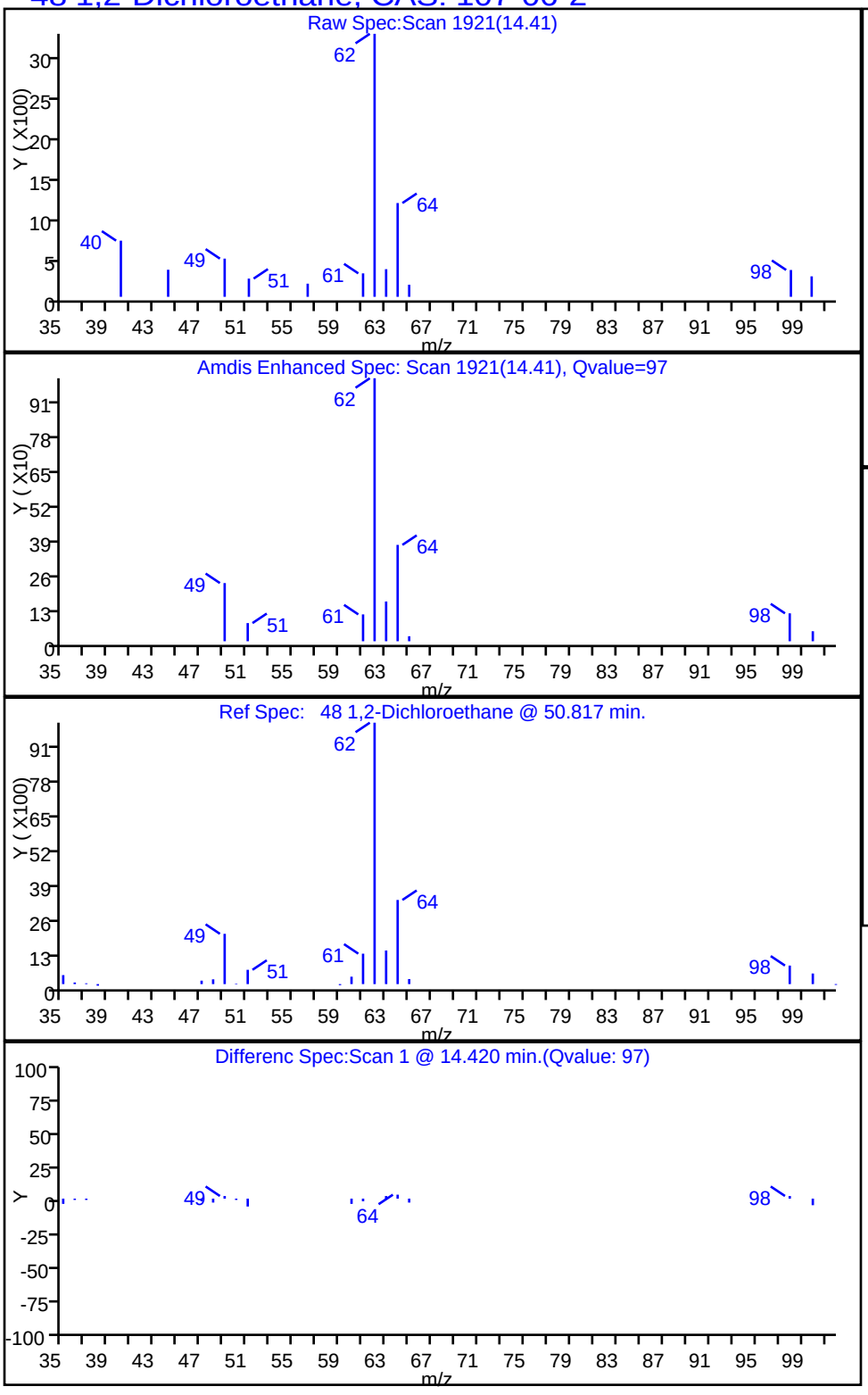
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

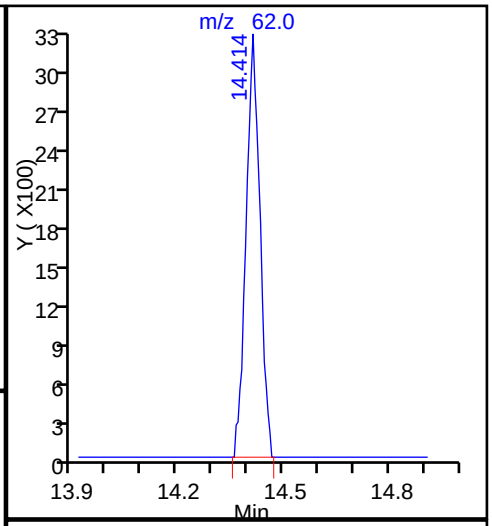
TestAmerica Burlington

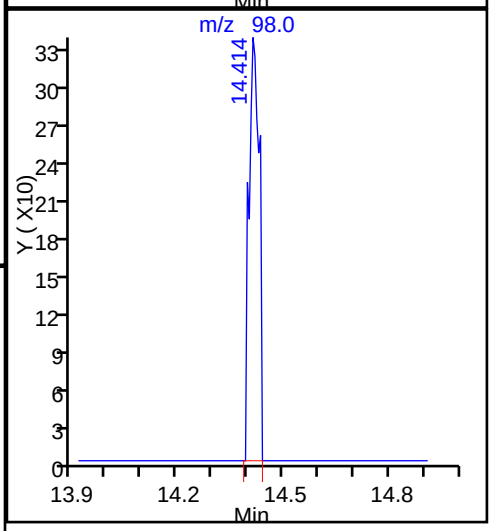
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

48 1,2-Dichloroethane, CAS: 107-06-2







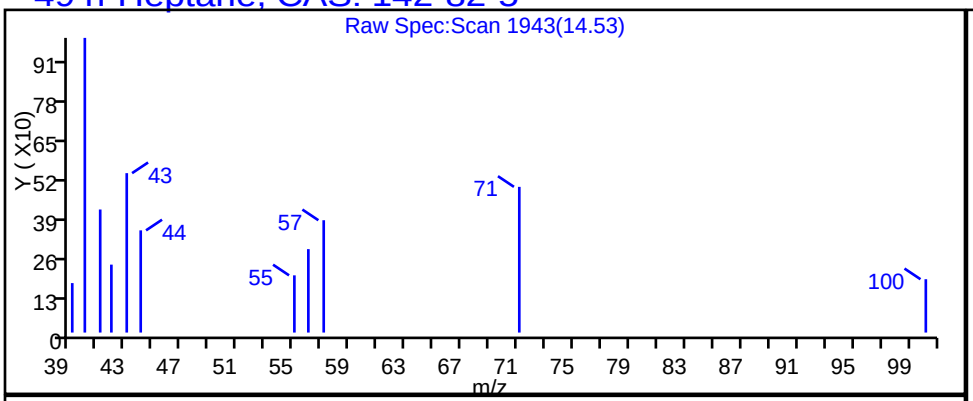
Report Date: 01-Oct-2015 12:53:35 Chrom Revision: 2.2 23-Jul-2015 08:26:08

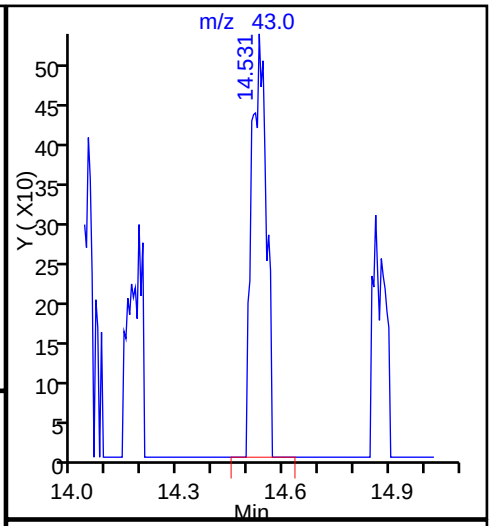
TestAmerica Burlington

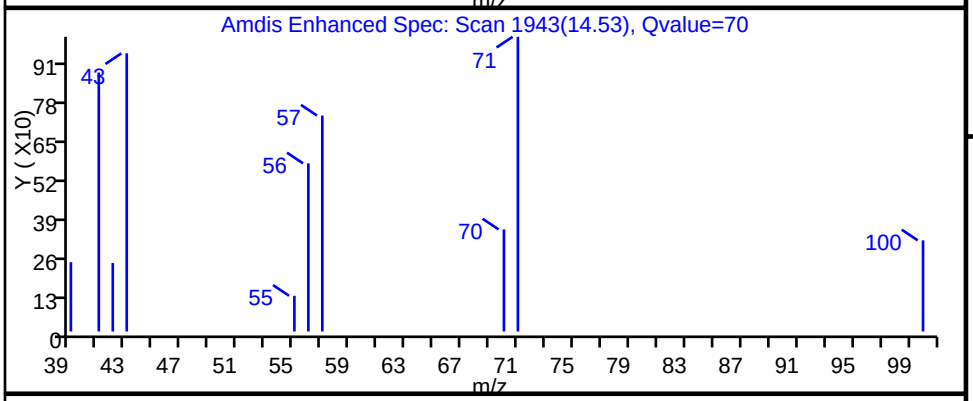
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

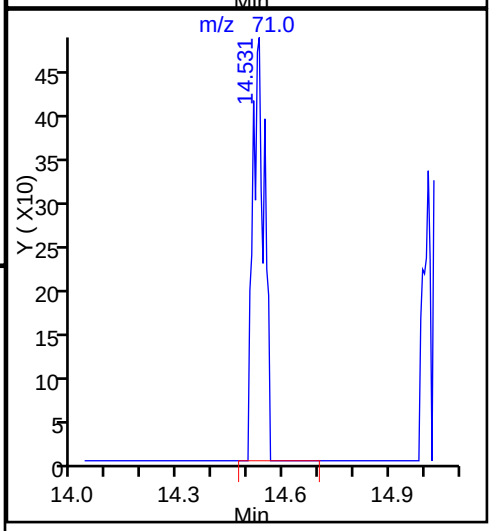
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

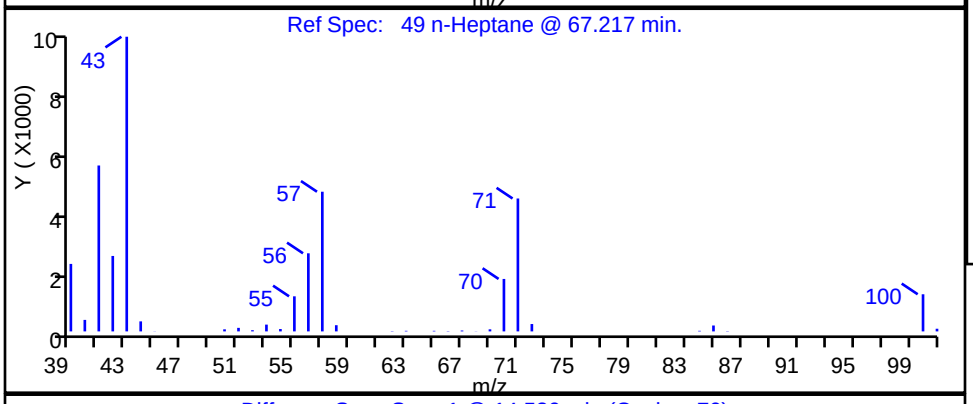
49 n-Heptane, CAS: 142-82-5

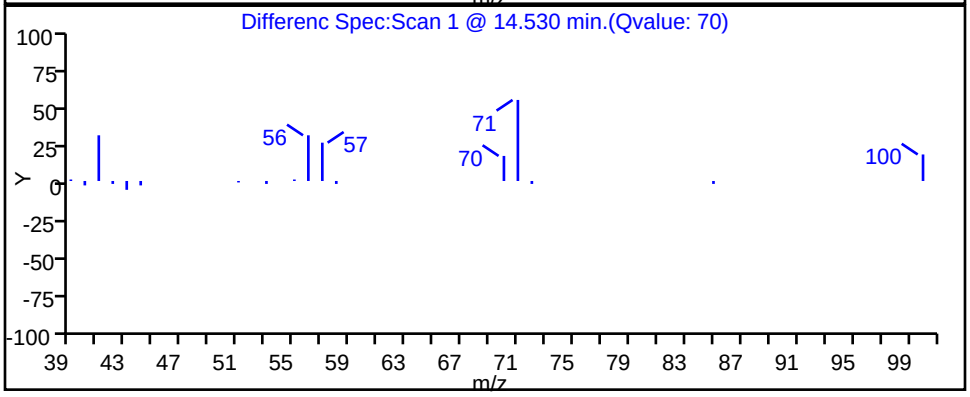












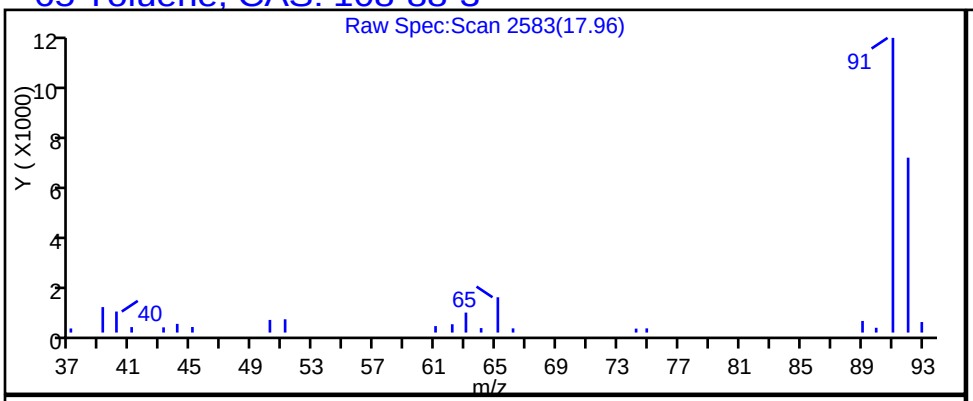
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

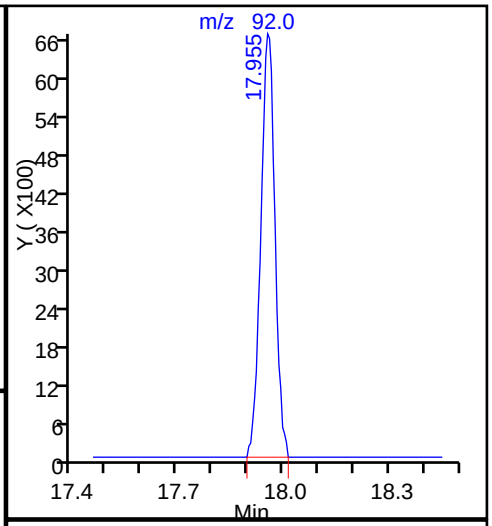
TestAmerica Burlington

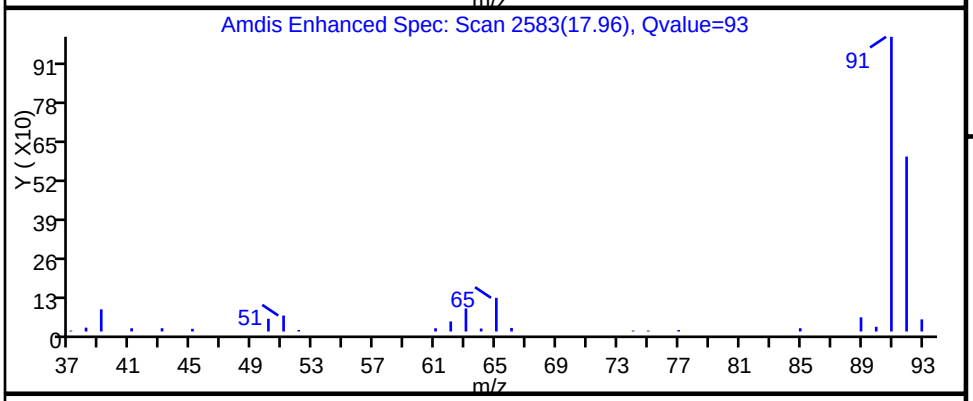
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

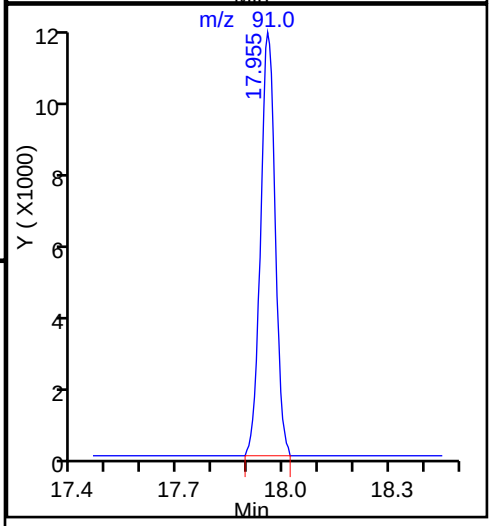
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

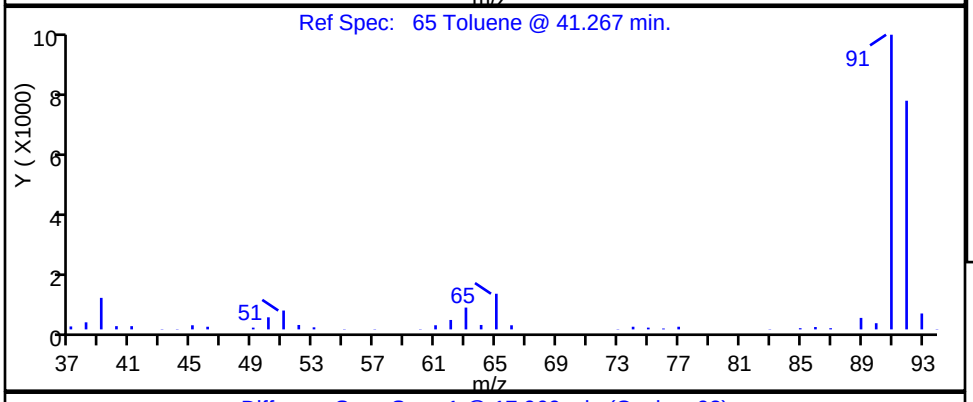
65 Toluene, CAS: 108-88-3

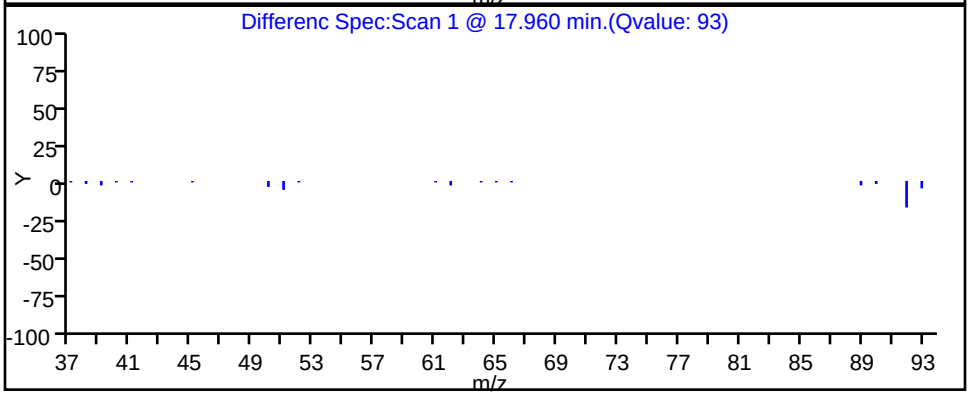












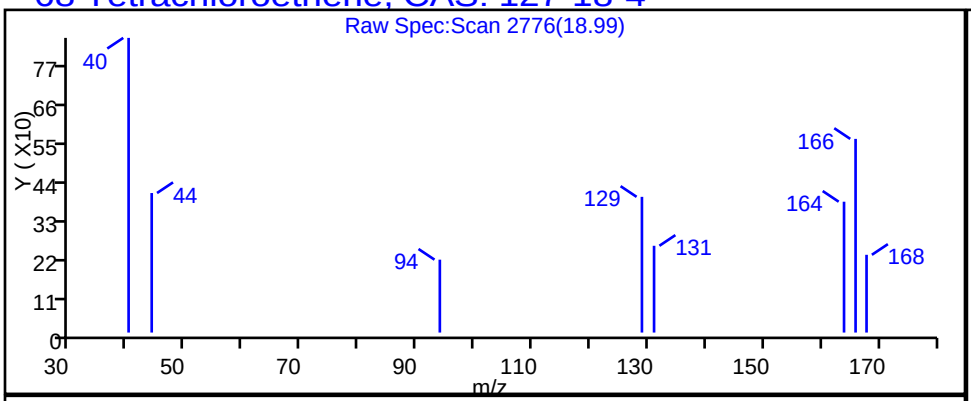
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

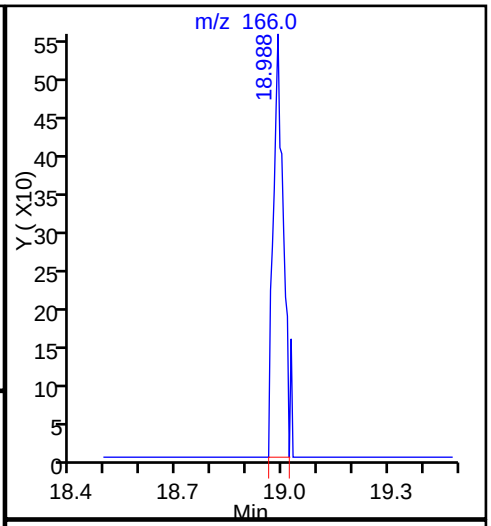
TestAmerica Burlington

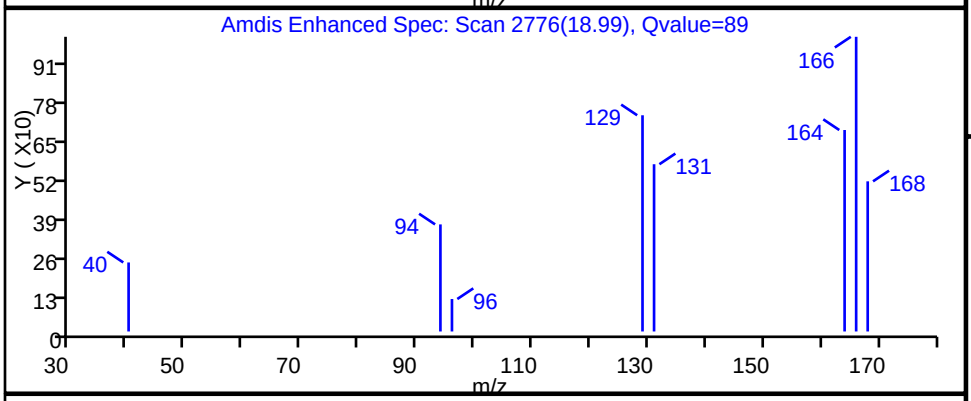
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

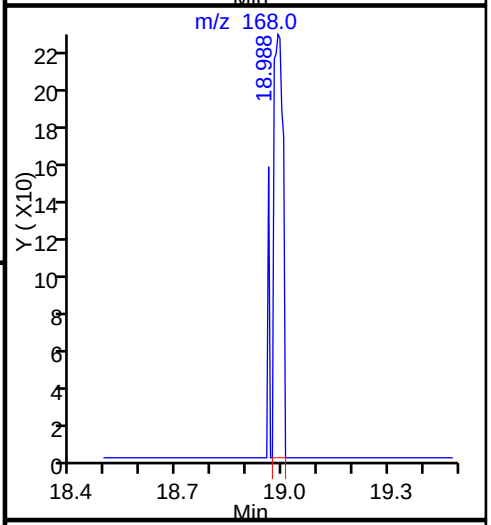
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

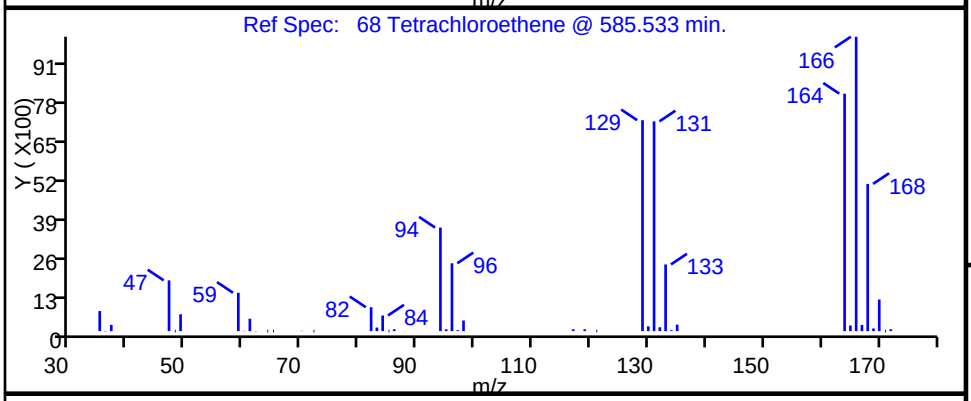
68 Tetrachloroethene, CAS: 127-18-4

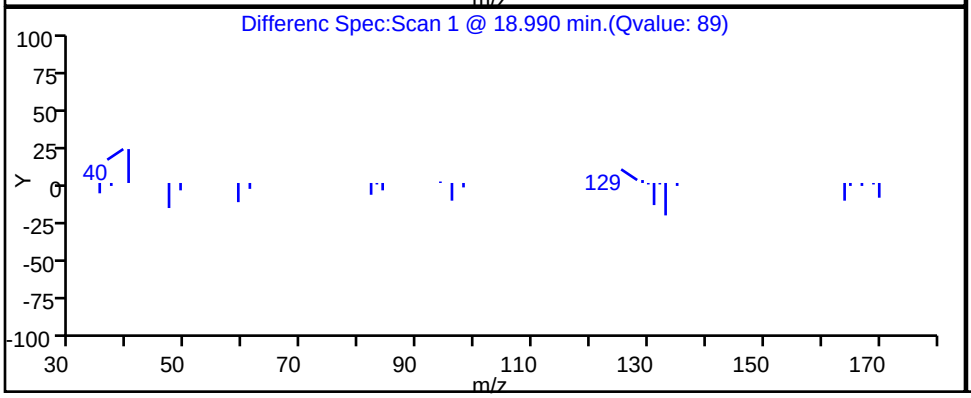


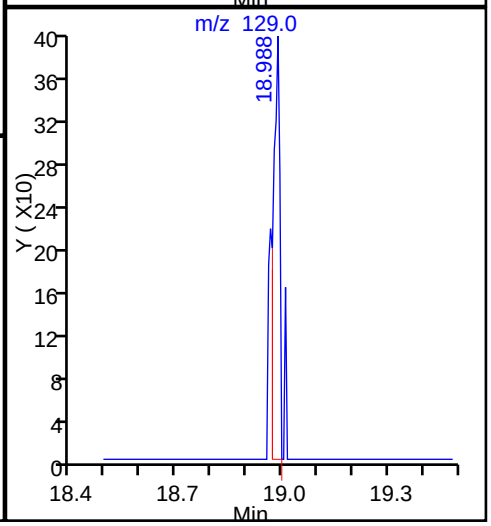












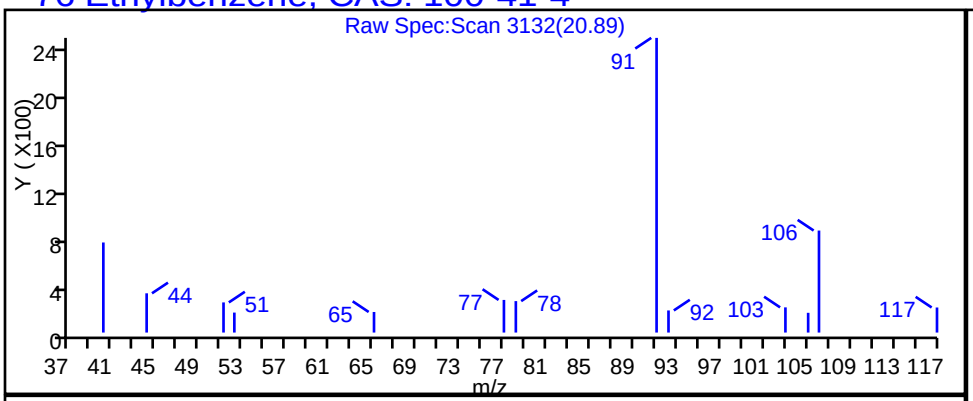
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

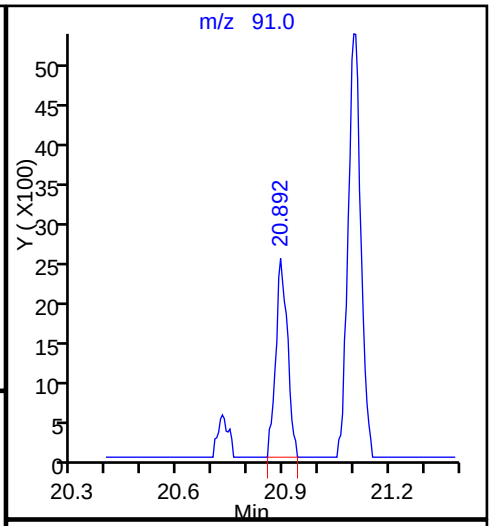
TestAmerica Burlington

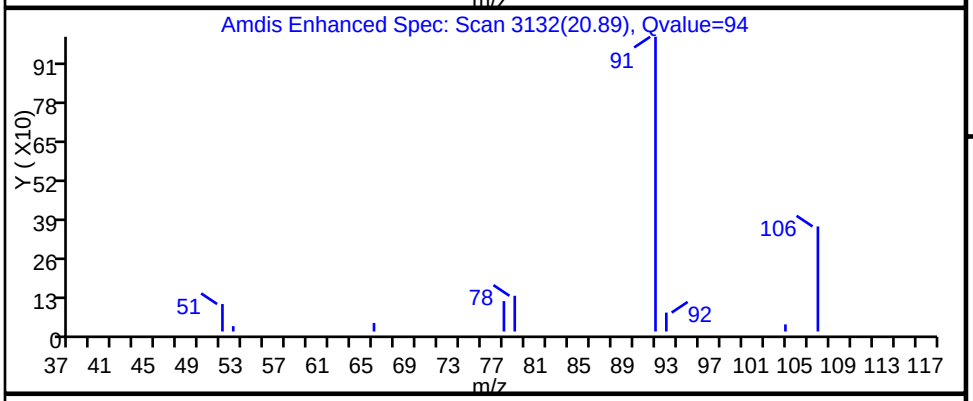
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

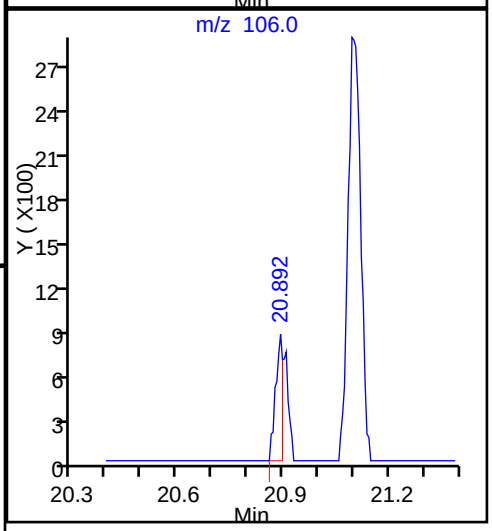
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

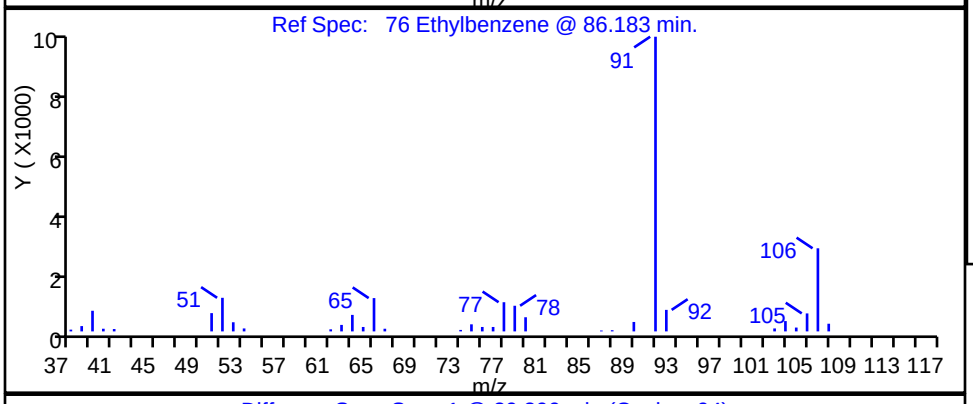
76 Ethylbenzene, CAS: 100-41-4

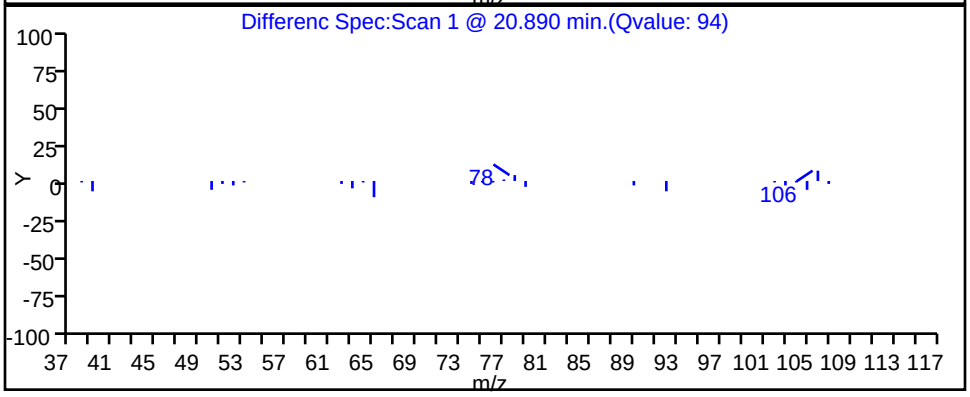












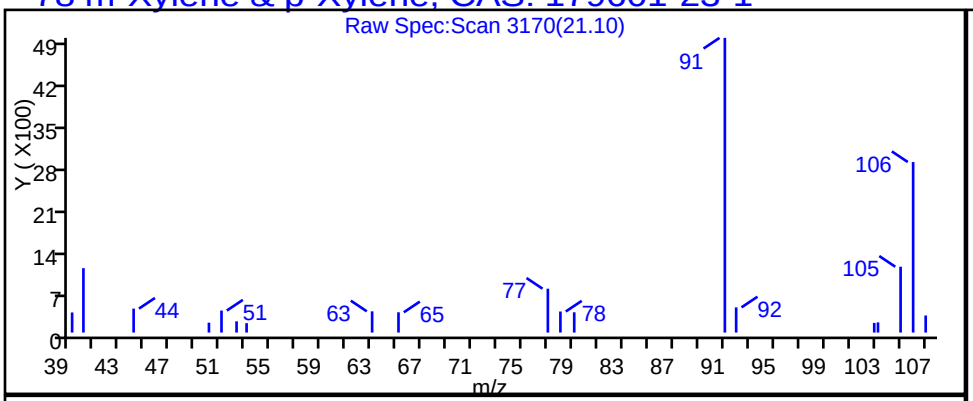
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

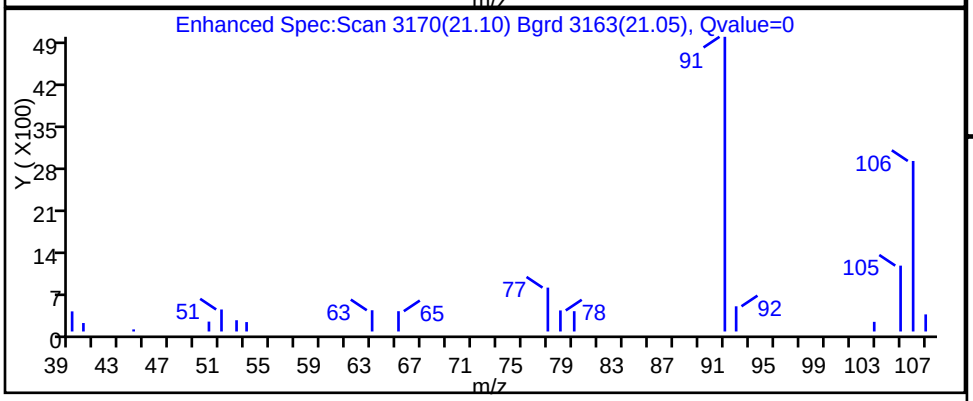
TestAmerica Burlington

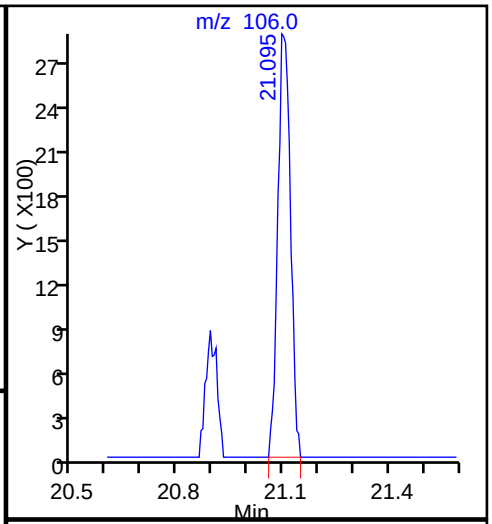
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

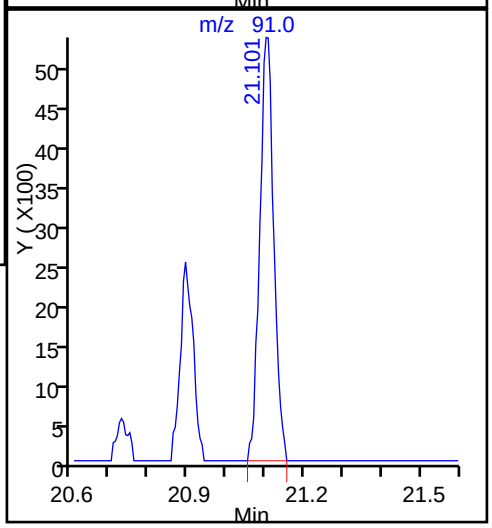
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1









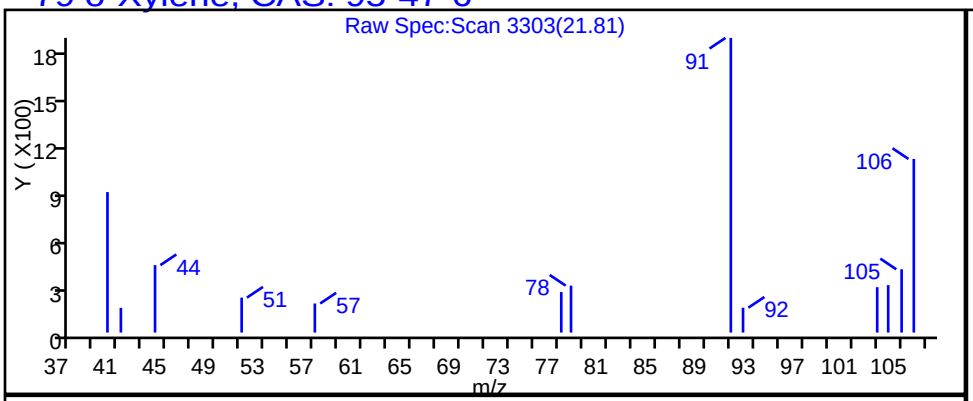
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

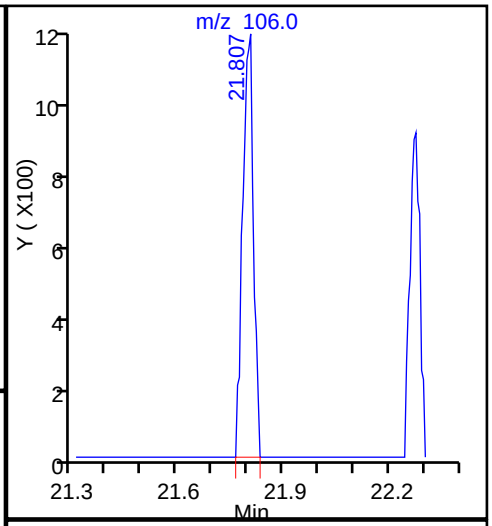
TestAmerica Burlington

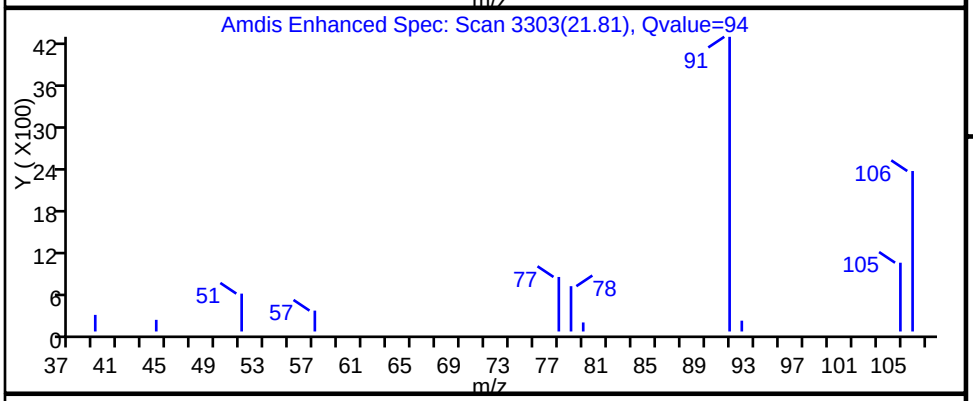
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

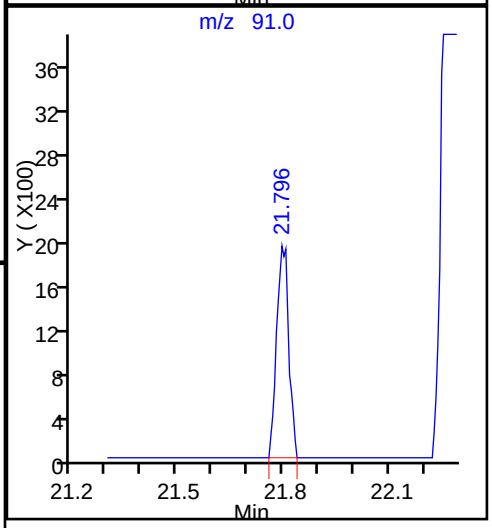
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

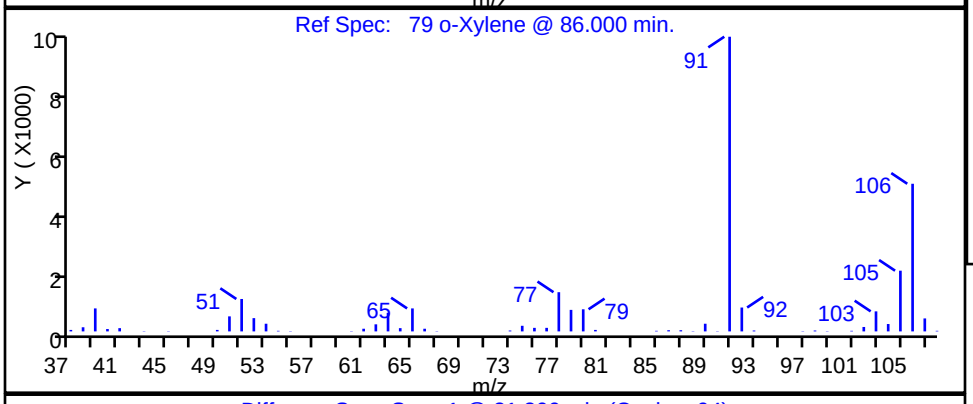
79 o-Xylene, CAS: 95-47-6

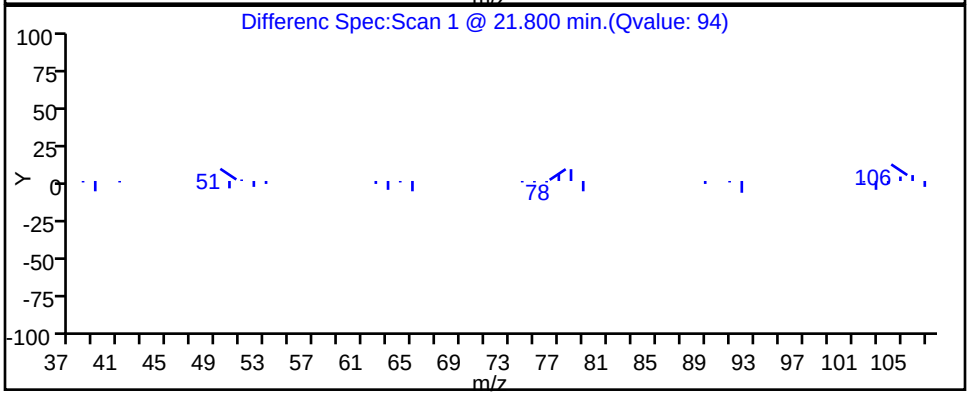












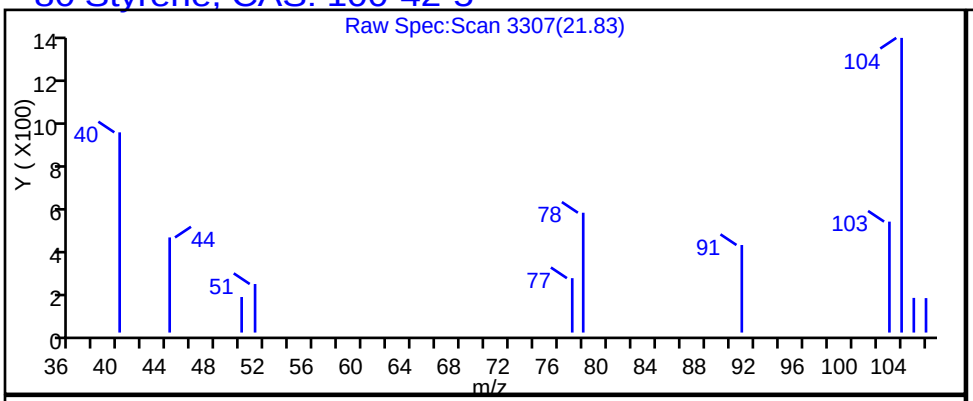
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

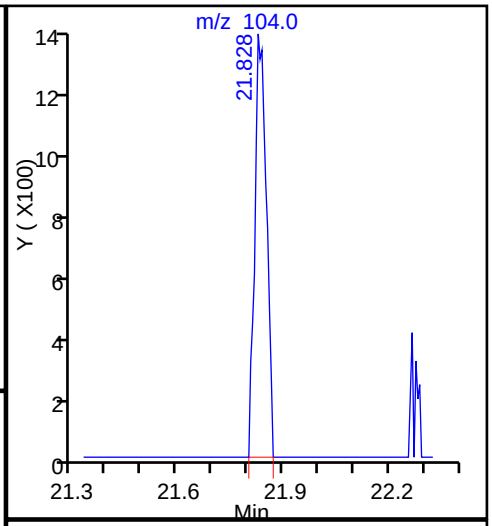
TestAmerica Burlington

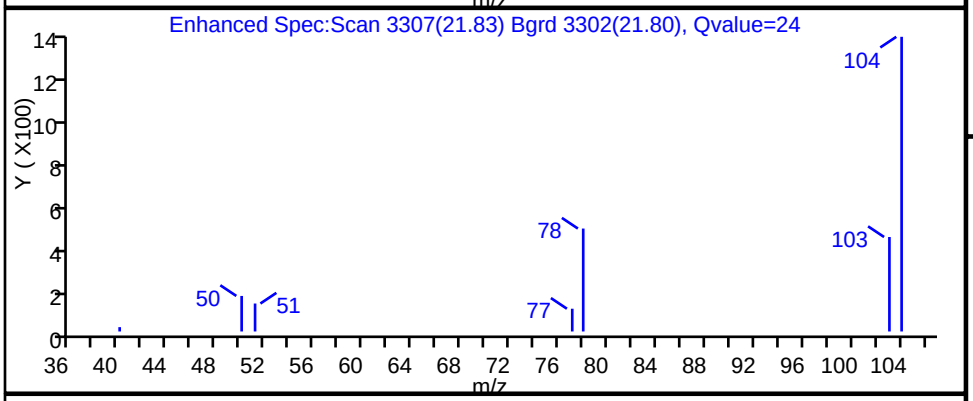
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

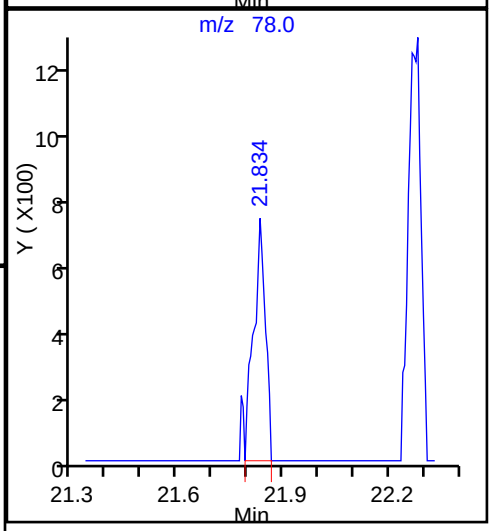
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

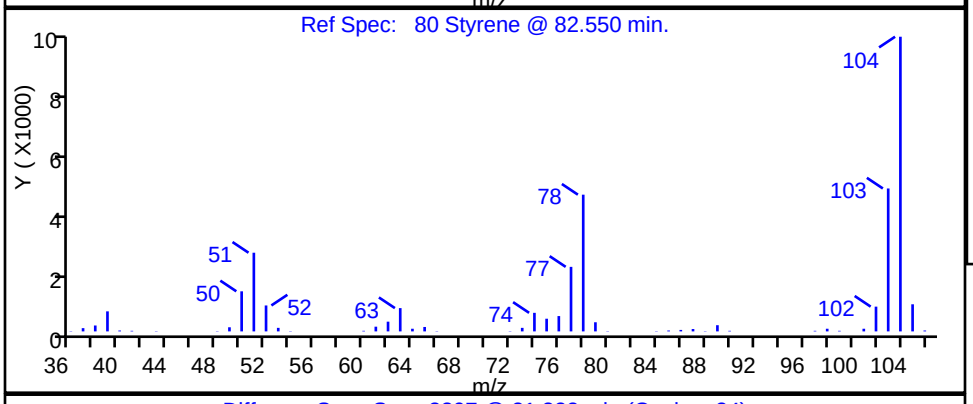
80 Styrene, CAS: 100-42-5

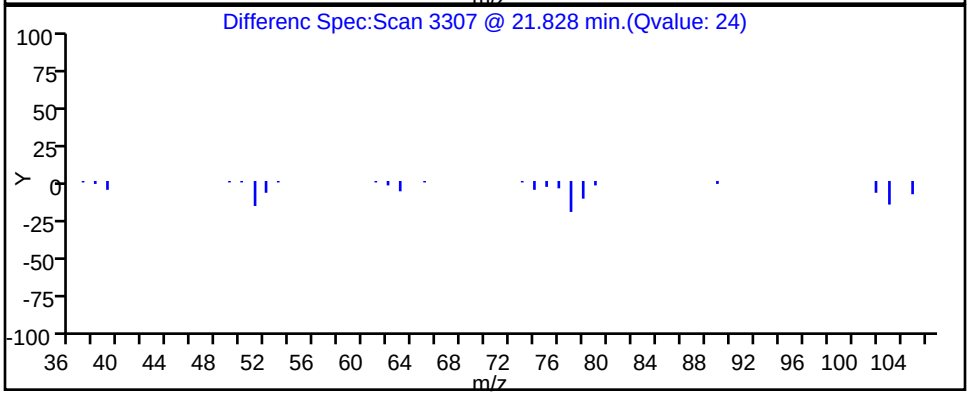












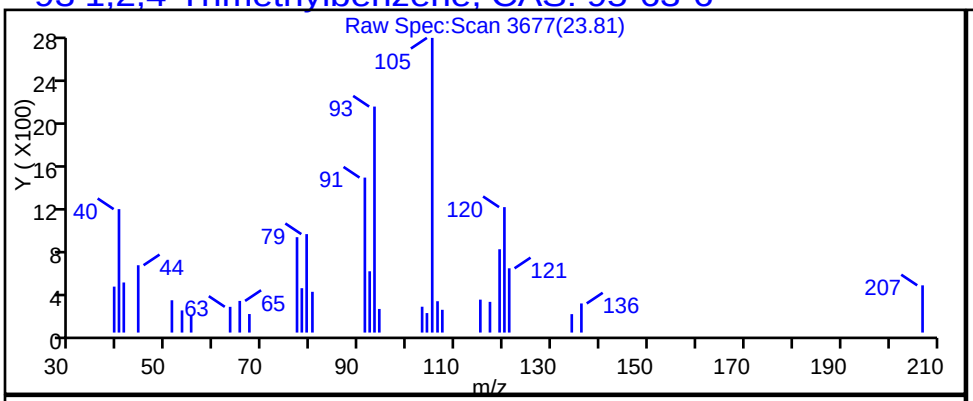
Report Date: 01-Oct-2015 12:53:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

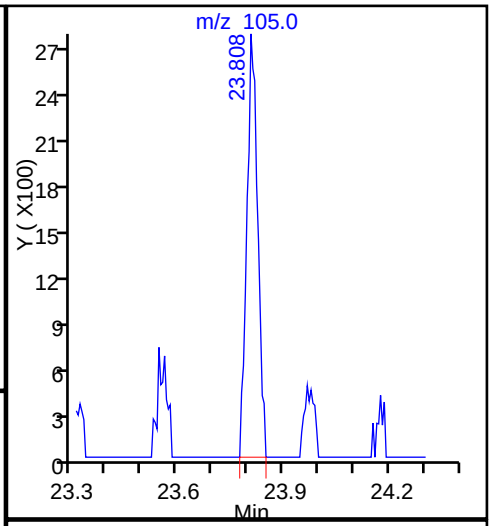
TestAmerica Burlington

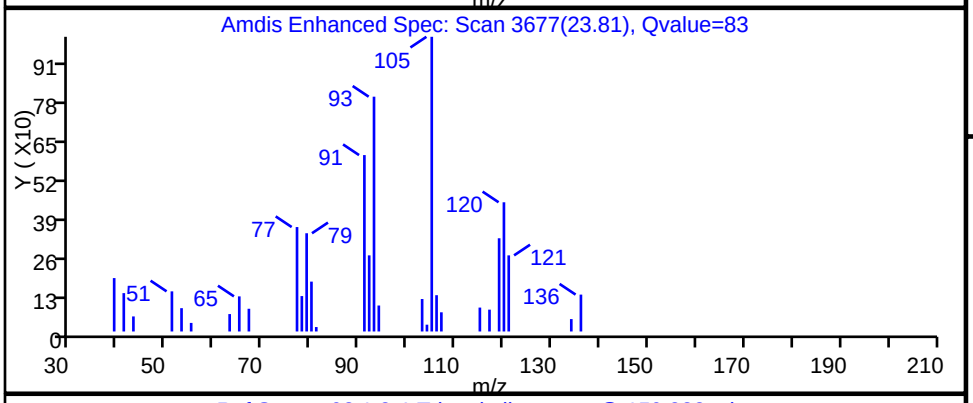
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d

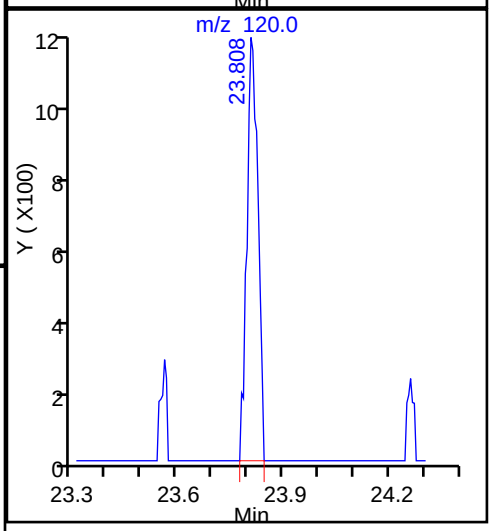
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

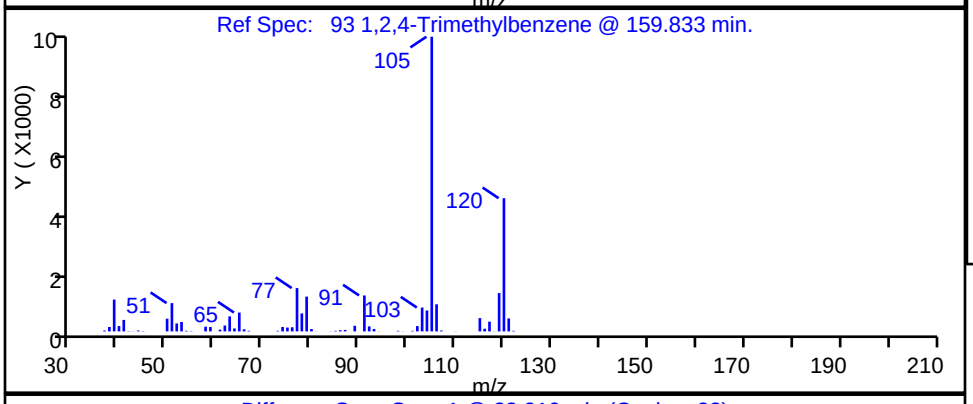
93 1,2,4-Trimethylbenzene, CAS: 95-63-6

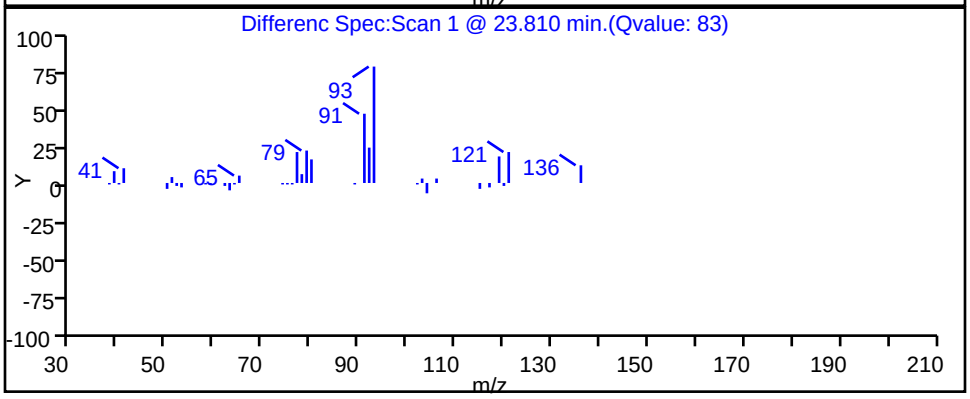












Manual Integration/User Assign Peak Report

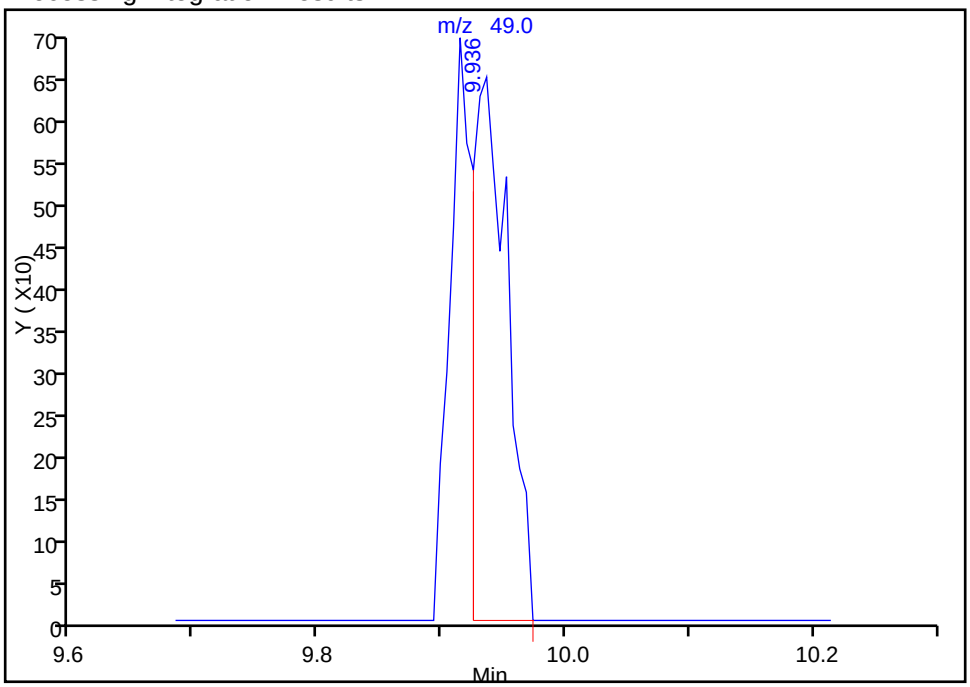
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

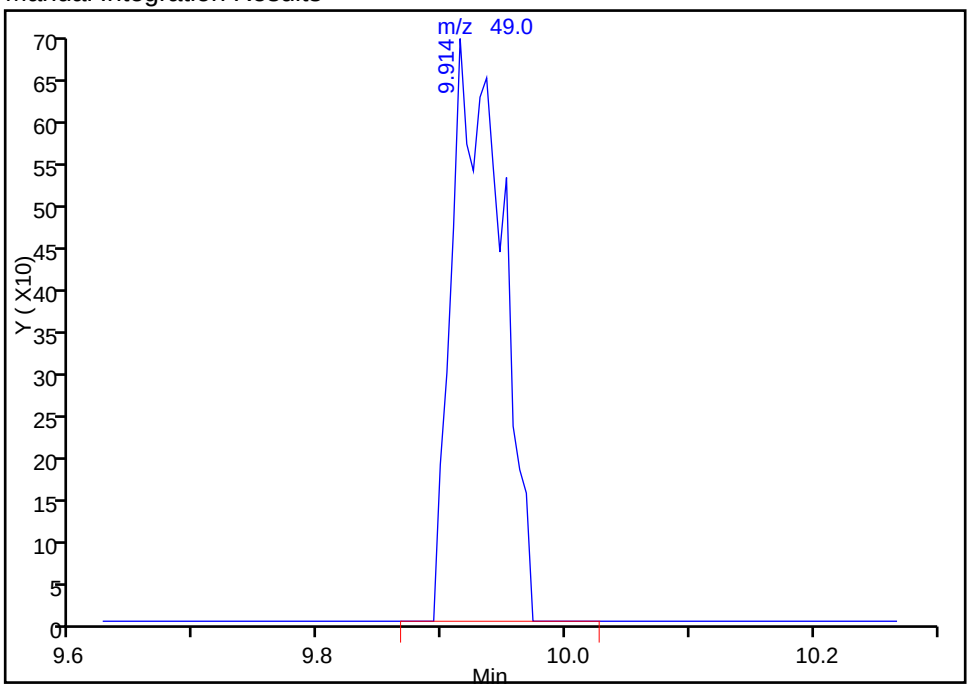
Processing Integration Results

RT: 9.94
Area: 1250
Amount: 0.104224
Amount Units: ppb v/v



Manual Integration Results

RT: 9.91
Area: 1962
Amount: 0.163589
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

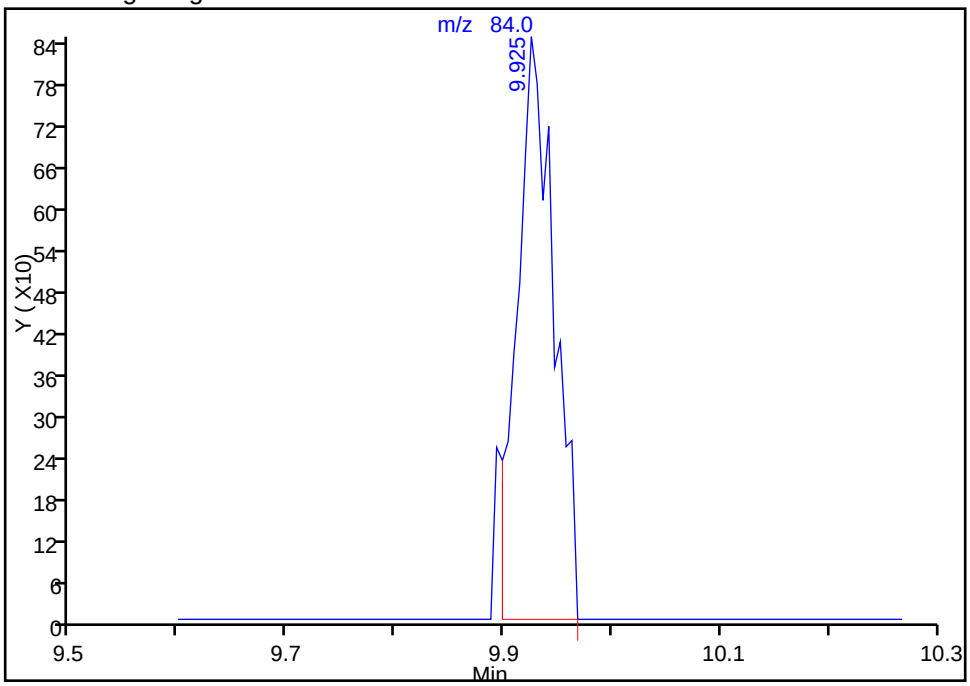
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

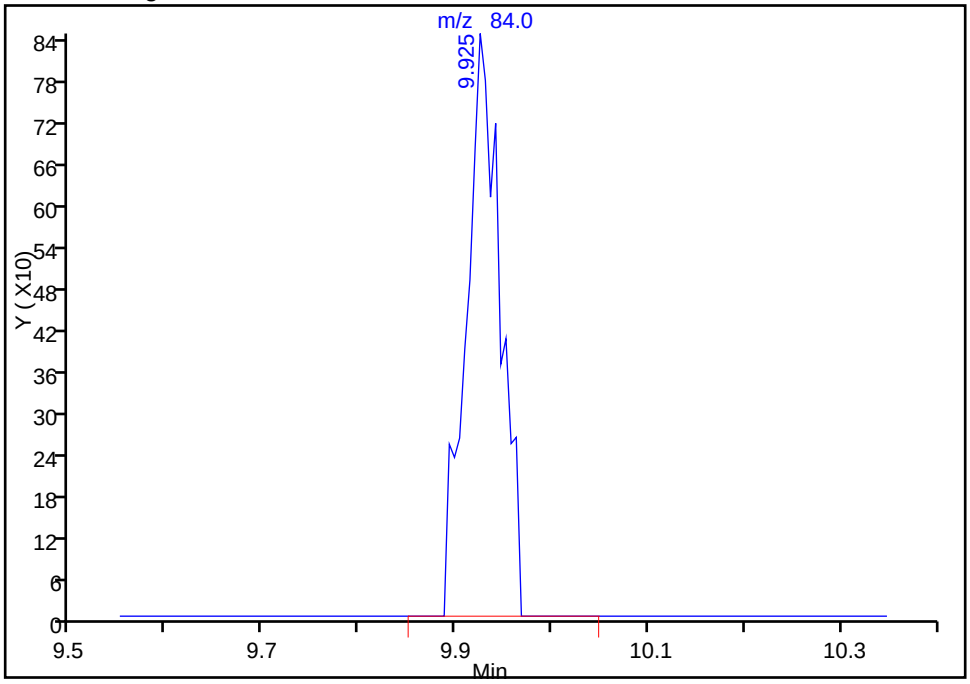
Processing Integration Results

RT: 9.93
Area: 2008
Amount: 0.104224
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 2088
Amount: 0.163589
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

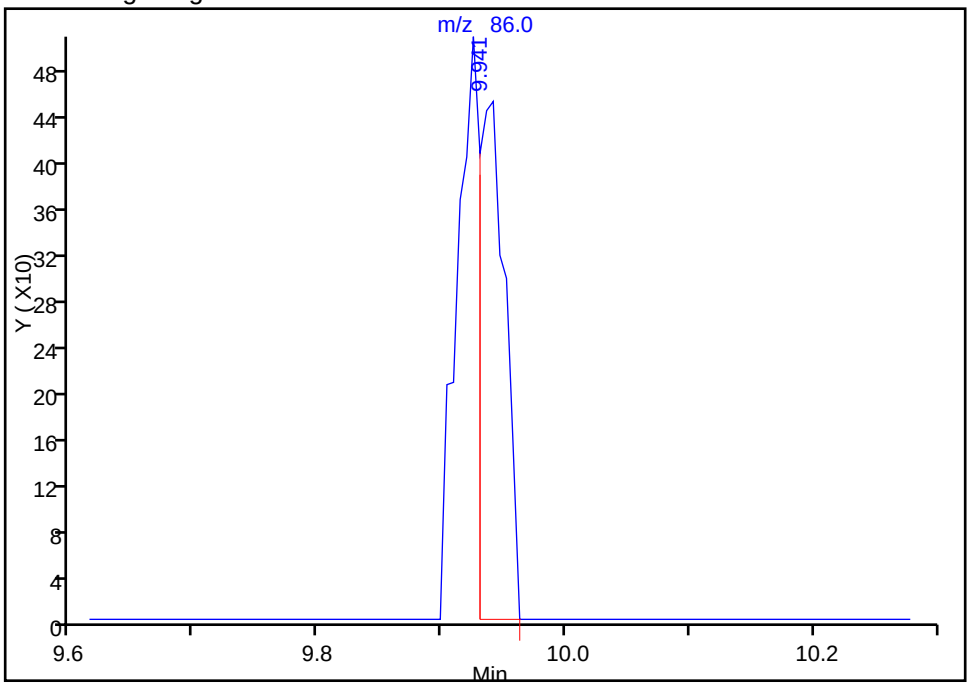
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

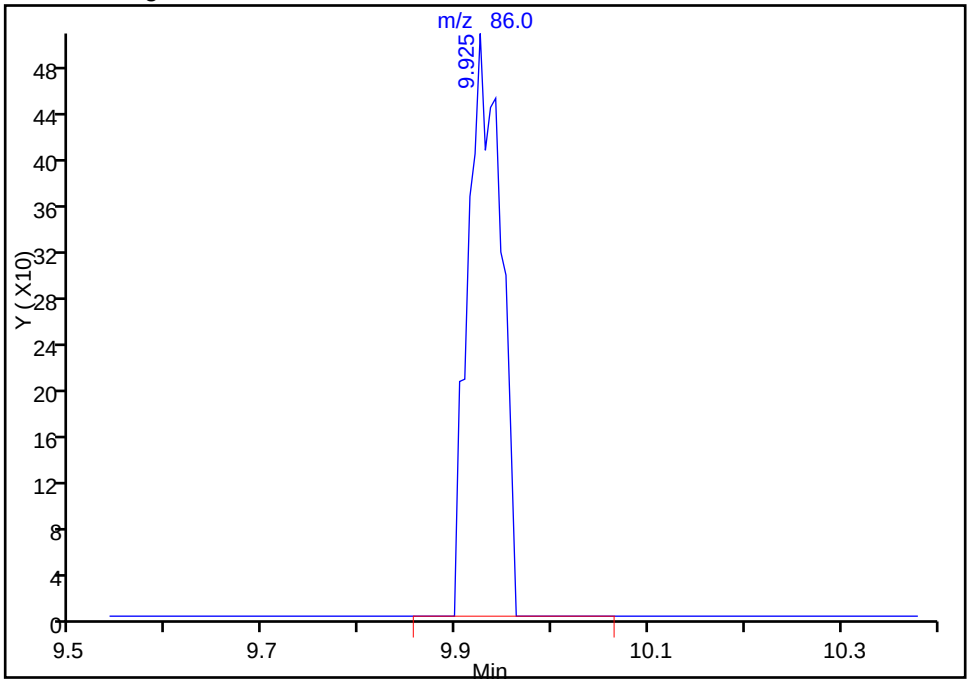
Processing Integration Results

RT: 9.94
Area: 658
Amount: 0.104224
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 1196
Amount: 0.163589
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

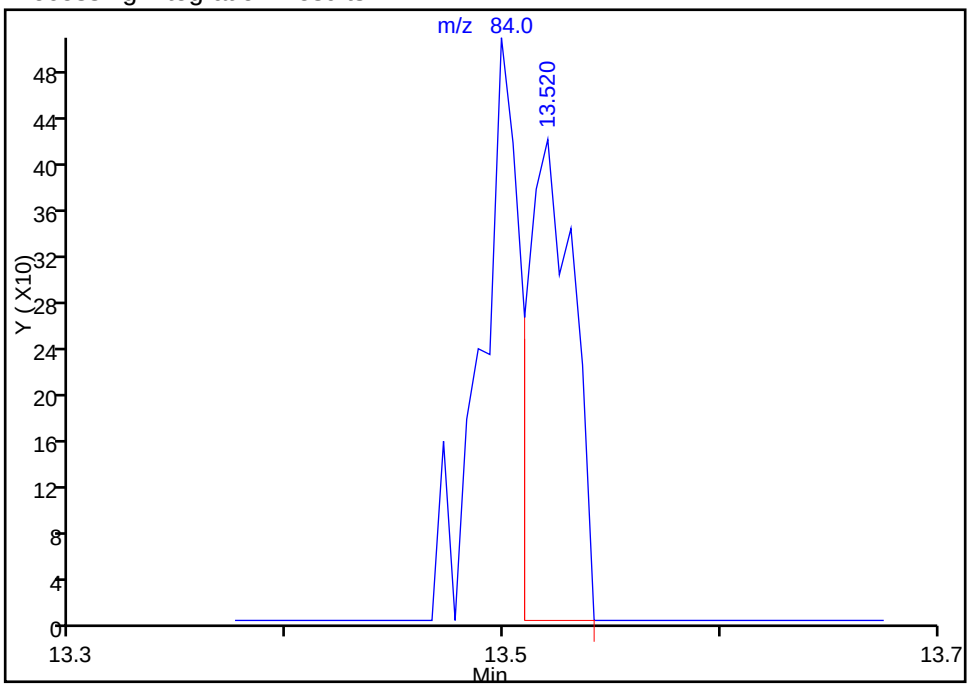
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

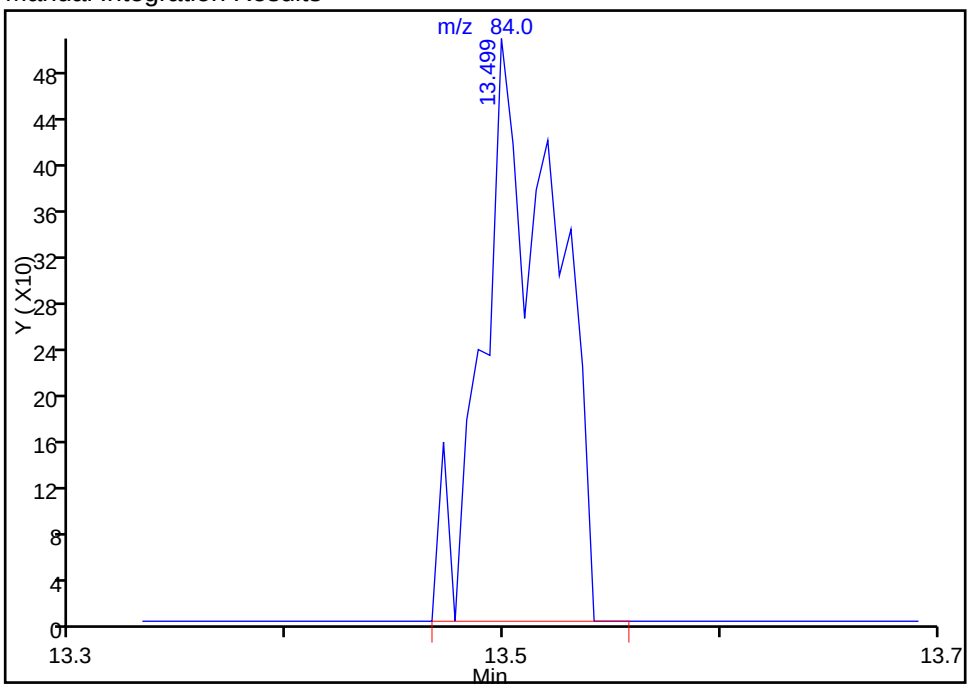
Processing Integration Results

RT: 13.52
Area: 613
Amount: 0.031255
Amount Units: ppb v/v



Manual Integration Results

RT: 13.50
Area: 1162
Amount: 0.059248
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

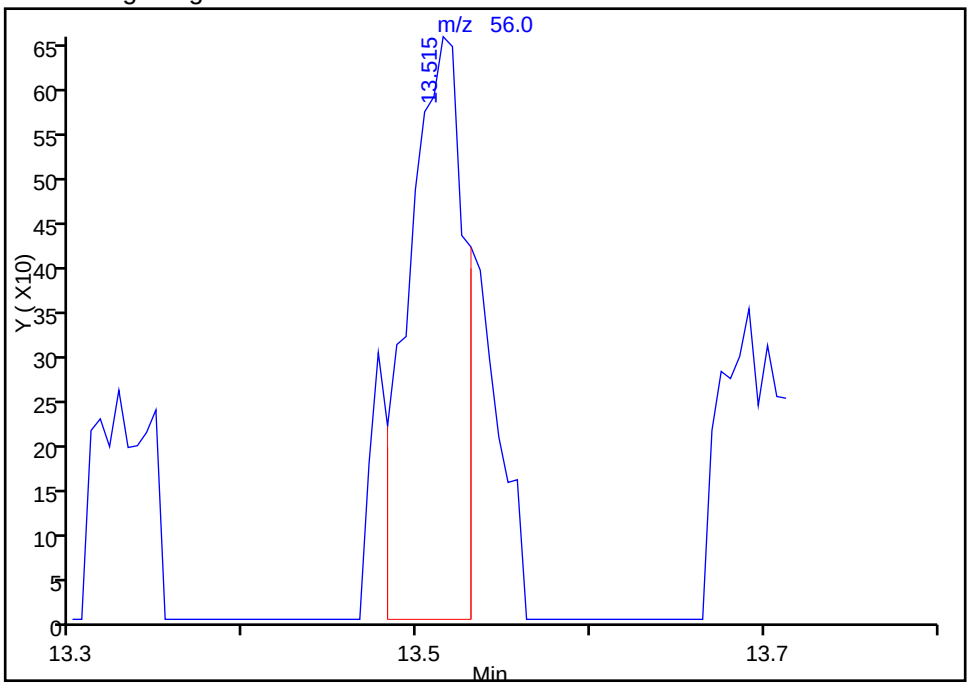
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

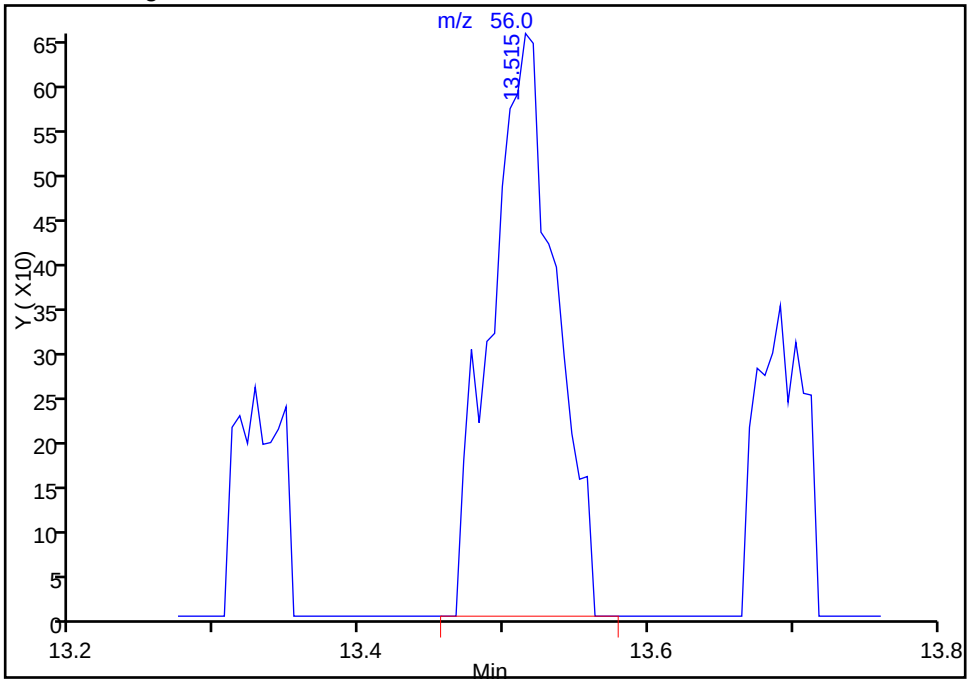
Processing Integration Results

RT: 13.51
Area: 1479
Amount: 0.031255
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 2013
Amount: 0.059248
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

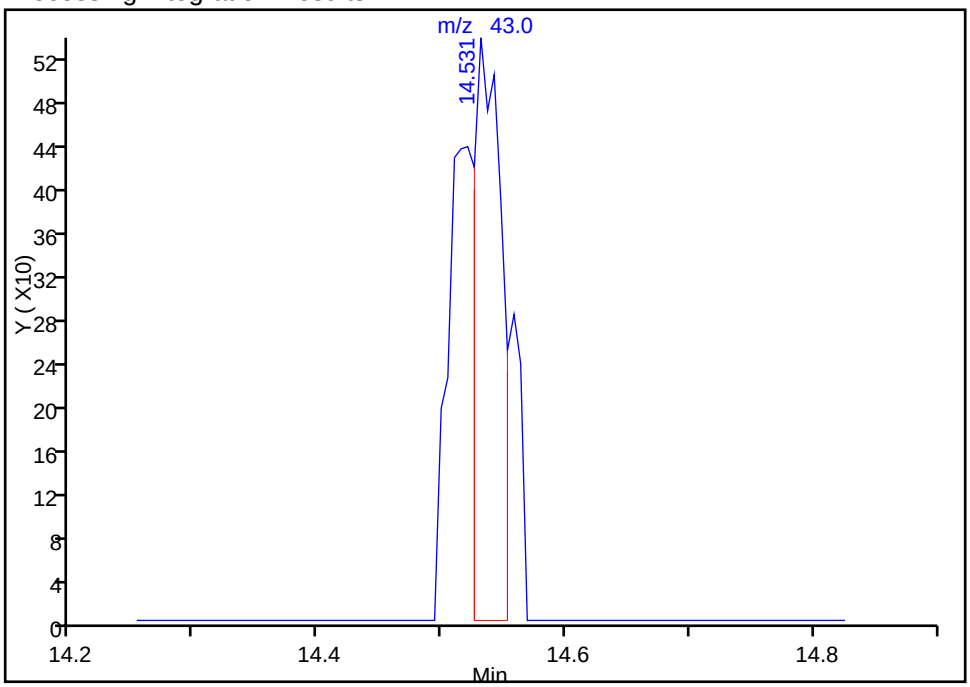
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

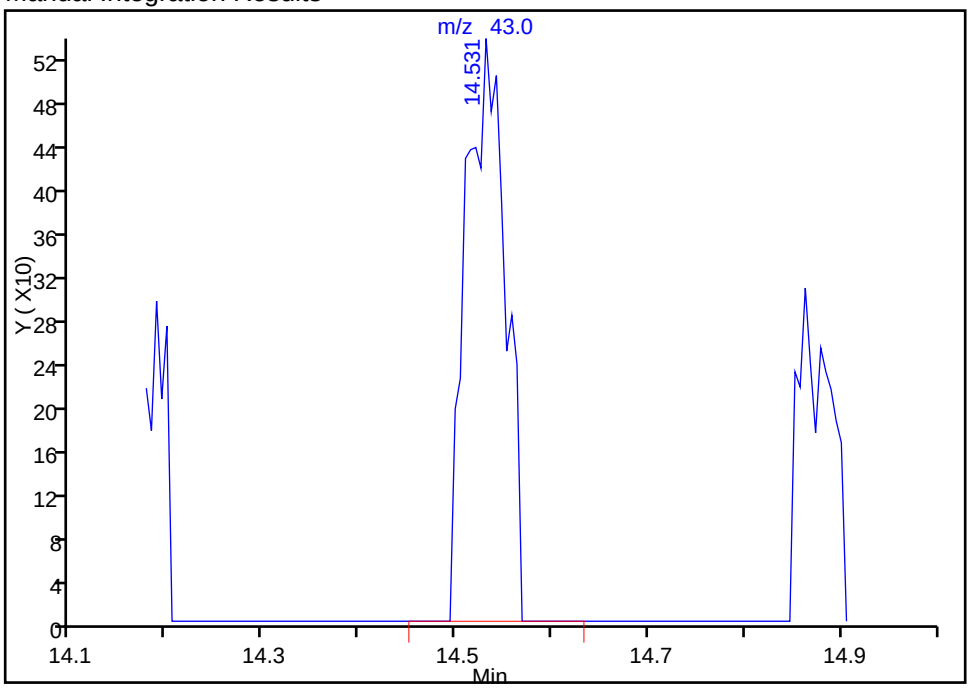
Processing Integration Results

RT: 14.53
Area: 820
Amount: 0.049544
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 1535
Amount: 0.092743
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

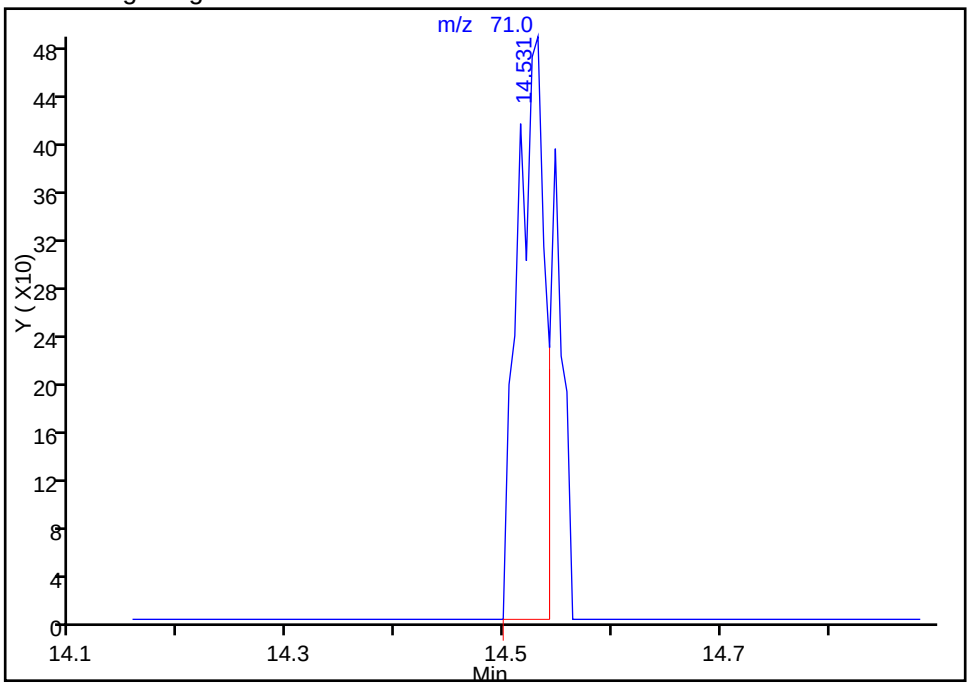
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_012.d				
Injection Date:	30-Sep-2015 20:07:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-21	Lab Sample ID:	200-29972-21		
Client ID:	FR-IA10-092315				
Operator ID:	pad	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	200.000 mL	Dil. Factor:	2.5000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

49 n-Heptane, CAS: 142-82-5

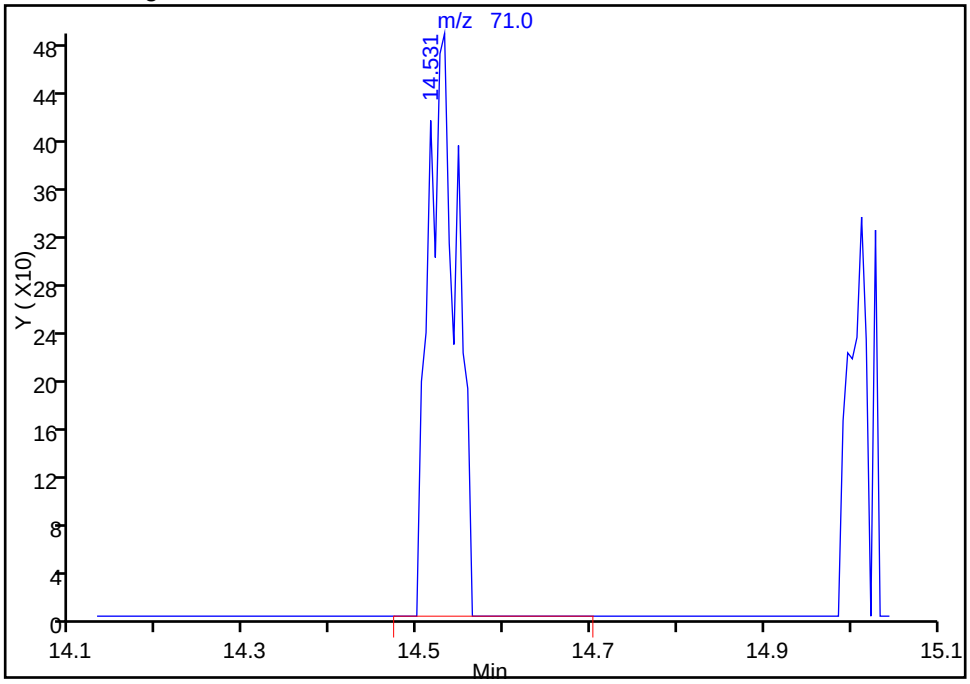
Processing Integration Results

RT: 14.53
Area: 852
Amount: 0.049544
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 1111
Amount: 0.092743
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 12:26:10
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-AA-092315 | Lab Sample ID: 200-29972-22

Matrix: Air | Lab File ID: 15991_023.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:39

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 04:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.58		0.50	0.080
75-45-6	Freon 22	86.47	0.31	J	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.093
106-97-8	n-Butane	58.12	0.39	J	0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.038
76-13-1	Freon TF	187.38	0.086	J	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	3.8	J	5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.089	J	0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.36	J	0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.046
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.079		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.039
71-43-2	Benzene	78.11	0.087	J	0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-AA-092315 | Lab Sample ID: 200-29972-22

Matrix: Air | Lab File ID: 15991_023.d

Analysis Method: TO-15 | Date Collected: 09/23/2015 17:39

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 04:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	0.13	J	0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.071
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.70	U	0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-AA-092315 Lab Sample ID: 200-29972-22

Matrix: Air Lab File ID: 15991_023.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:39

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 04:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-AA-092315 Lab Sample ID: 200-29972-22

Matrix: Air Lab File ID: 15991_023.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:39

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 04:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.9		2.5	0.40
75-45-6	Freon 22	86.47	1.1	J	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.2		1.0	0.19
106-97-8	n-Butane	58.12	0.92	J	1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.21
76-13-1	Freon TF	187.38	0.66	J	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	8.9	J	12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	0.31	J	0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	1.1	J	1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.25
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.50		0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.18
71-43-2	Benzene	78.11	0.28	J	0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-AA-092315 Lab Sample ID: 200-29972-22

Matrix: Air Lab File ID: 15991_023.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:39

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 04:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	0.48	J	0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.31
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.16
1330-20-7	Xylene (total)	106.17	3.0	U	3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: FR-AA-092315 Lab Sample ID: 200-29972-22

Matrix: Air Lab File ID: 15991_023.d

Analysis Method: TO-15 Date Collected: 09/23/2015 17:39

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 04:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d
Lims ID: 200-29972-A-22 Lab Sample ID: 200-29972-22
Client ID: FR-AA-092315
Sample Type: Client
Inject. Date: 30-Sep-2015 04:42:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-023
Misc. Info.: 29972-22
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 14:12:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	4.420	4.426	-0.006	99	26787	0.5828	
3 Chlorodifluoromethane	51	4.501	4.495	0.006	96	5814	0.3138	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800				ND	
5 Chloromethane	50	5.009	5.009	0.000	97	5192	0.5784	
6 Butane	43	5.292	5.282	0.010	95	5043	0.3856	
7 Vinyl chloride	62		5.346				ND	
8 Butadiene	54		5.453				ND	
10 Bromomethane	94		6.368				ND	
11 Chloroethane	64		6.667				ND	
13 Vinyl bromide	106		7.175				ND	
14 Trichlorofluoromethane	101	7.288	7.288	0.000	97	13628	0.2612	
20 1,1,2-Trichloro-1,2,2-trif	101	8.588	8.588	0.000	87	2890	0.0855	
21 1,1-Dichloroethene	96		8.663				ND	
22 Acetone	43	8.946	8.935	0.011	98	60821	3.76	
23 Carbon disulfide	76		9.160				ND	
24 Isopropyl alcohol	45	9.246	9.219	0.027	93	4422	0.3424	
25 3-Chloro-1-propene	41		9.588				ND	
27 Methylene Chloride	49	9.925	9.925	0.000	86	1740	0.1465	M
28 2-Methyl-2-propanol	59		10.112				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.369				ND	
31 trans-1,2-Dichloroethene	61		10.428				ND	
33 Hexane	57	10.851	10.851	0.000	83	1405	0.0892	
34 1,1-Dichloroethane	63		11.428				ND	
37 cis-1,2-Dichloroethene	96		12.616				ND	
38 2-Butanone (MEK)	72	12.664	12.653	0.011	98	2680	0.3579	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	144732	10.0	
41 Tetrahydrofuran	42		13.108				ND	
42 Chloroform	83		13.215				ND	
43 Cyclohexane	84		13.509				ND	
44 1,1,1-Trichloroethane	97		13.531				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	45 Carbon tetrachloride	117	13.777	13.782	-0.005	93	3743	0.0789	
	46 Isooctane	57		14.183				ND	
	47 Benzene	78	14.253	14.253	0.000	91	4092	0.0871	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	694088	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.013				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	58 Dichlorobromomethane	83		16.500				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.623				ND	
	65 Toluene	92	17.960	17.960	0.000	92	4931	0.1266	M
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.859				ND	
	68 Tetrachloroethene	166		18.987				ND	
	69 2-Hexanone	43		19.260				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.913				ND	
S	73 Xylenes, Total	106				0		0.0869	
*	74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	673514	10.0	
	75 Chlorobenzene	112		20.785				ND	
	76 Ethylbenzene	91	20.897	20.897	0.000	92	2159	0.0248	
	78 m-Xylene & p-Xylene	106	21.101	21.106	-0.005	0	2257	0.0641	
	79 o-Xylene	106	21.796	21.801	-0.005	93	792	0.0228	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.203				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.973				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.482				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.920				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.344				ND	
	105 Naphthalene	128		28.767				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

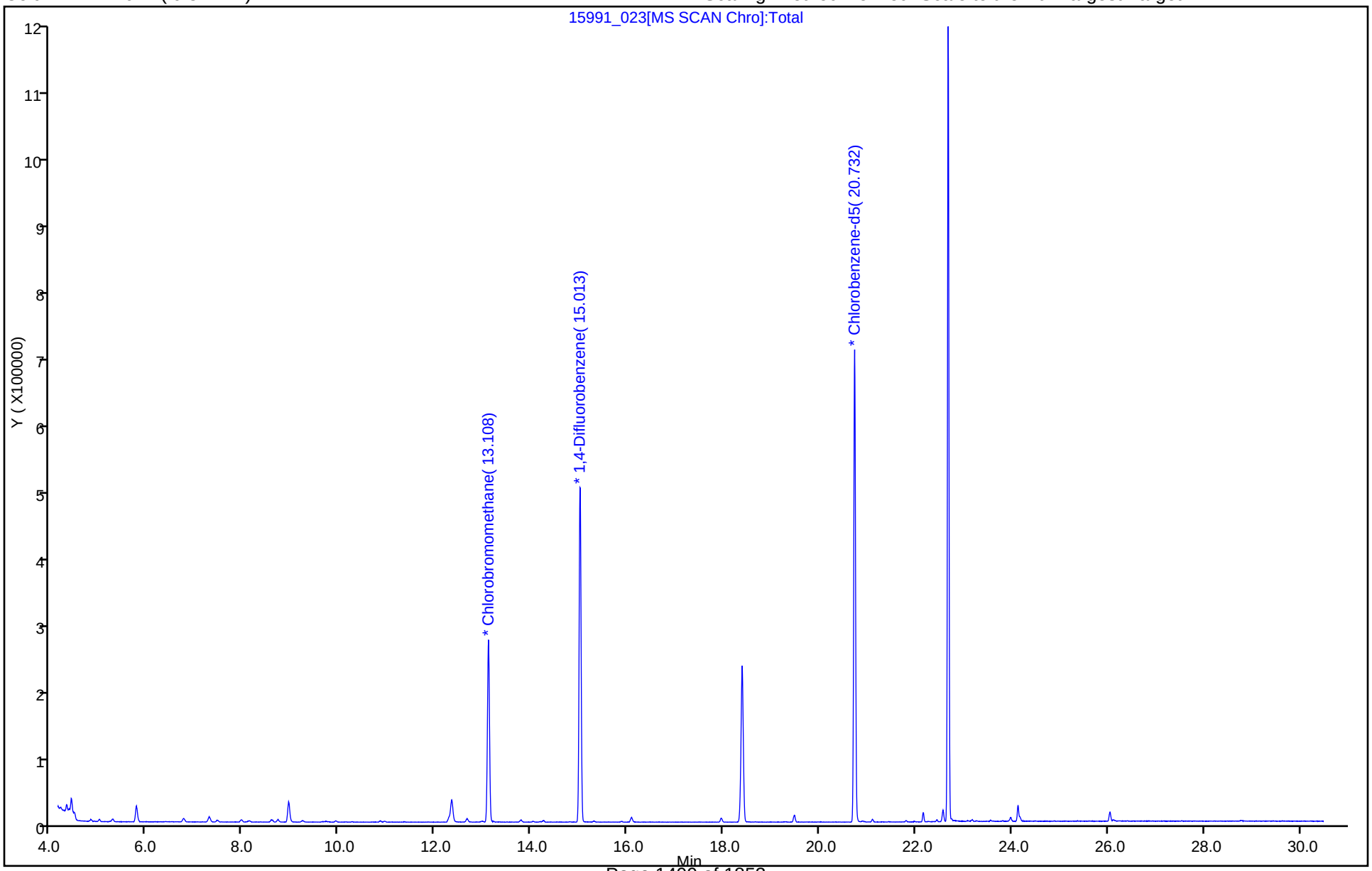
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22	Worklist Smp#:	23
Client ID:	FR-AA-092315				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



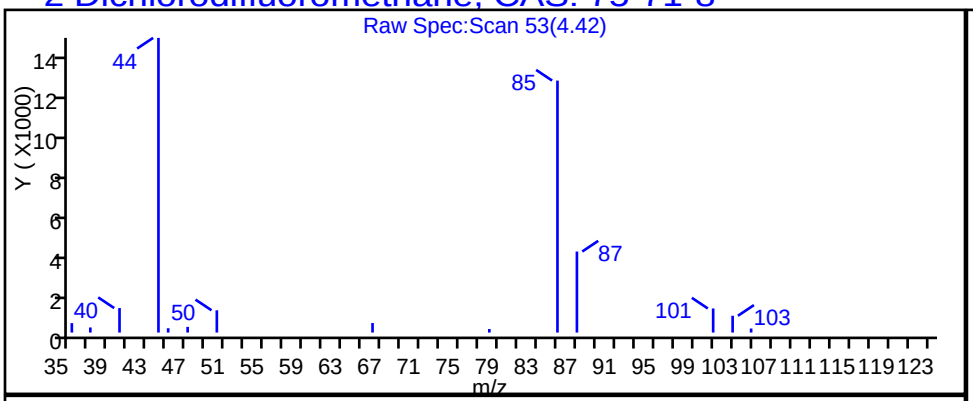
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

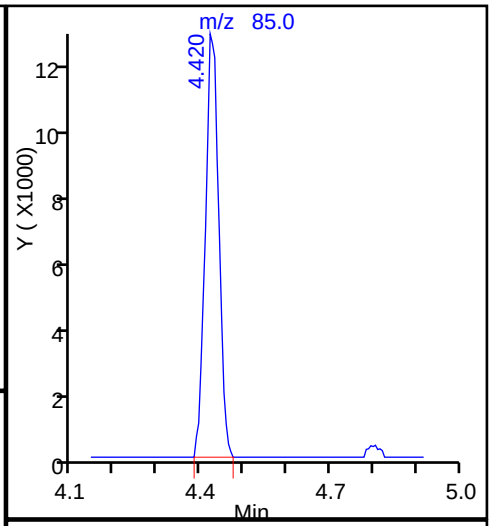
TestAmerica Burlington

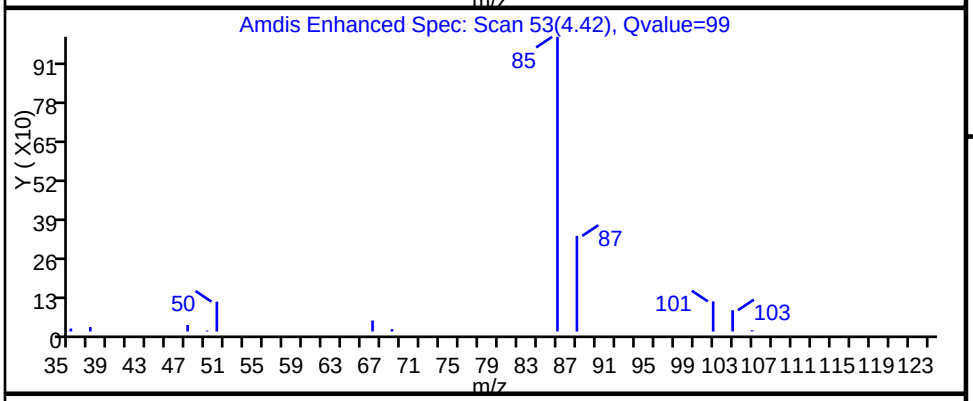
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

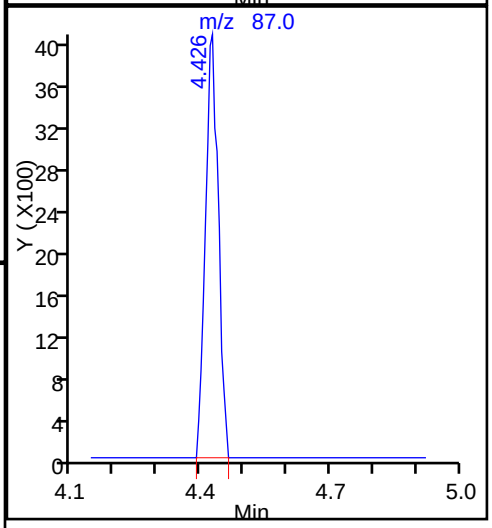
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

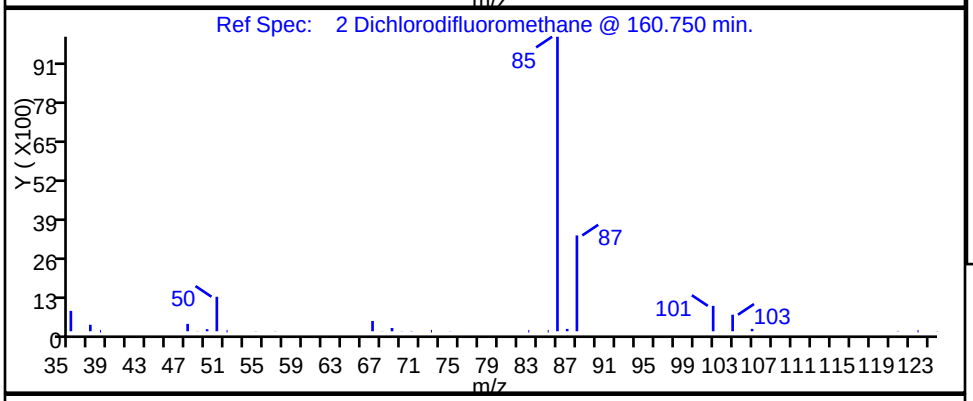
2 Dichlorodifluoromethane, CAS: 75-71-8

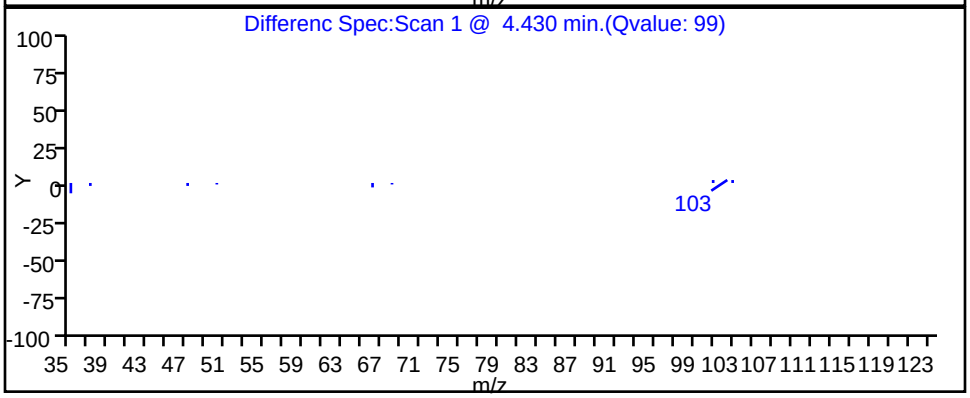










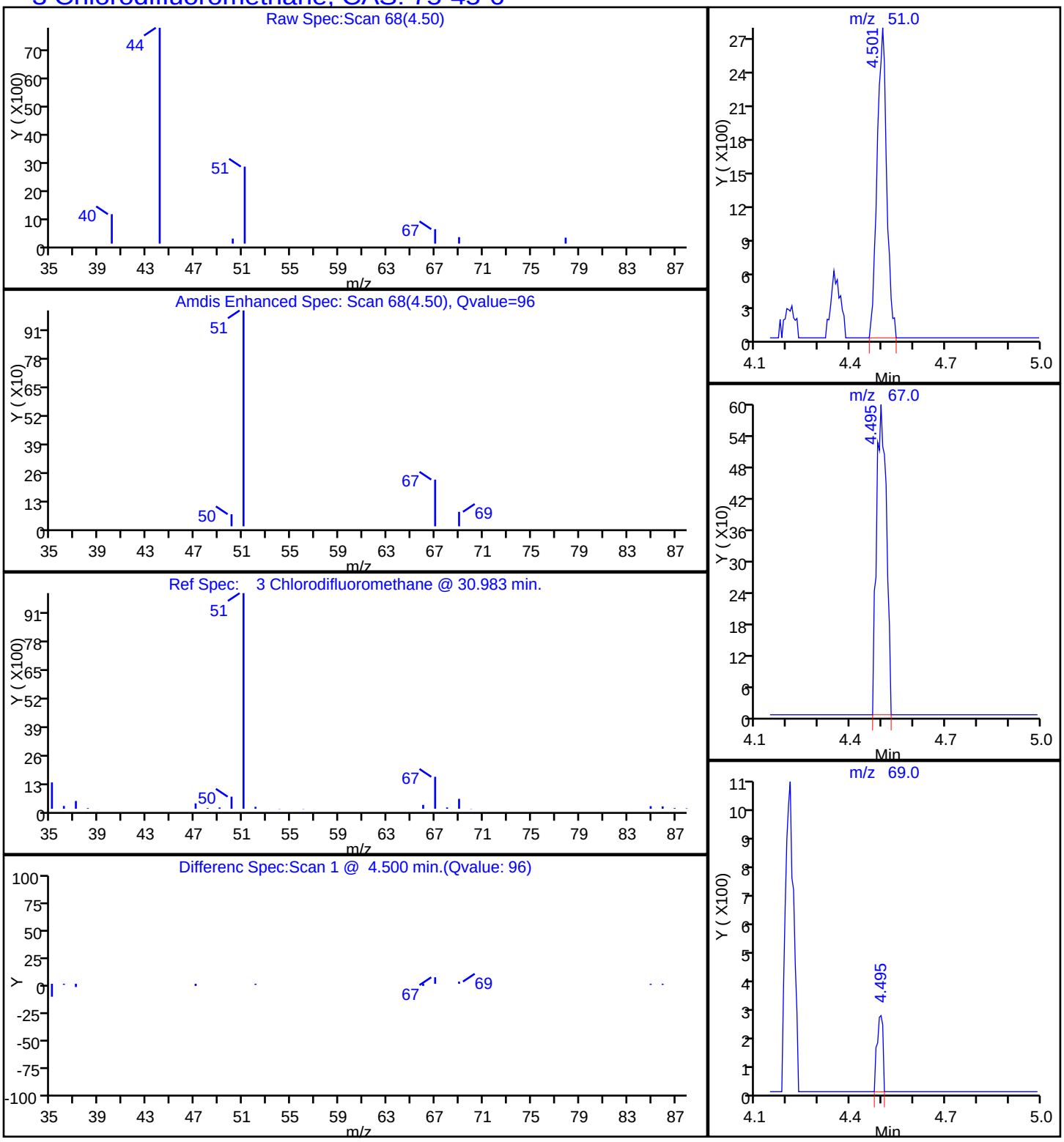


Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d				
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

3 Chlorodifluoromethane, CAS: 75-45-6



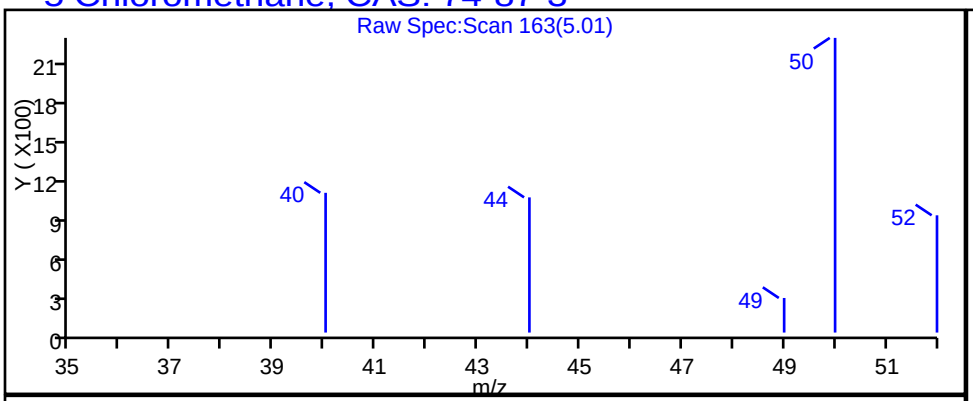
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

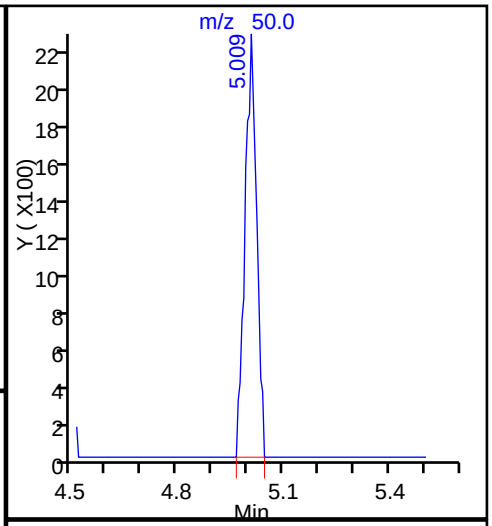
TestAmerica Burlington

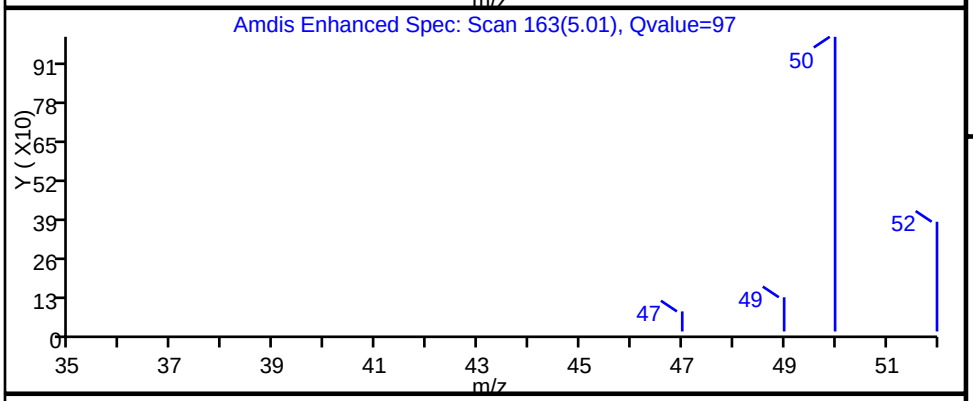
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

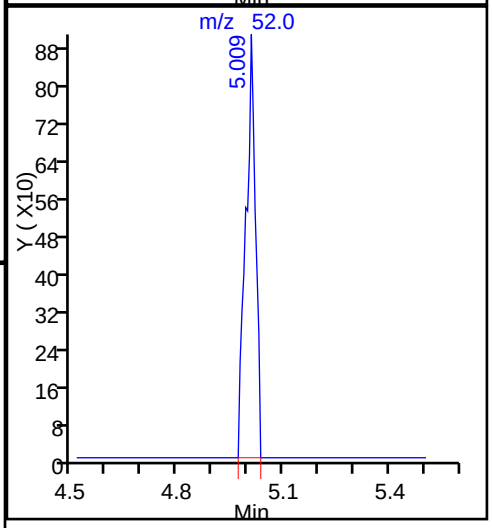
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

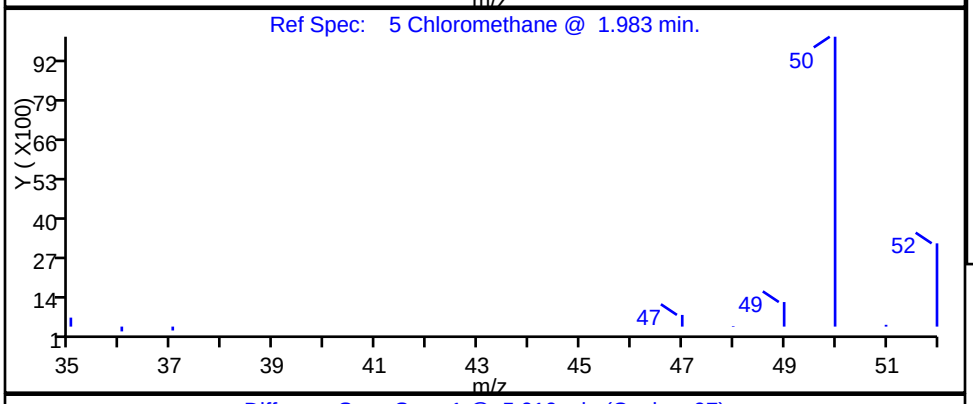
5 Chloromethane, CAS: 74-87-3

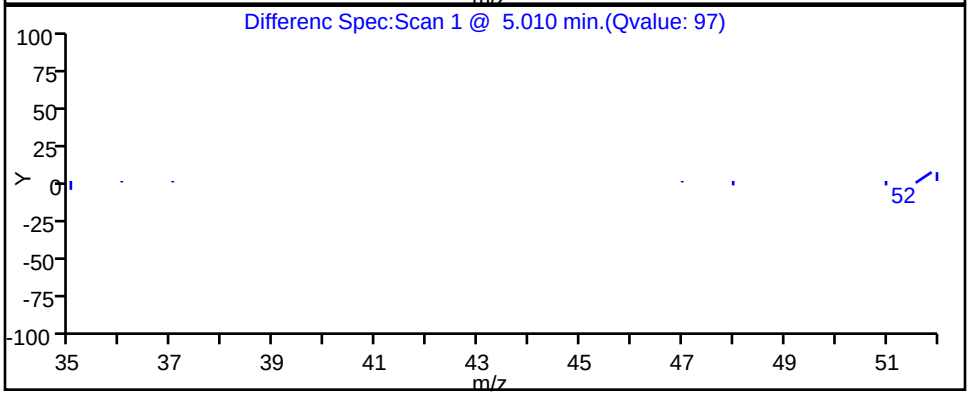












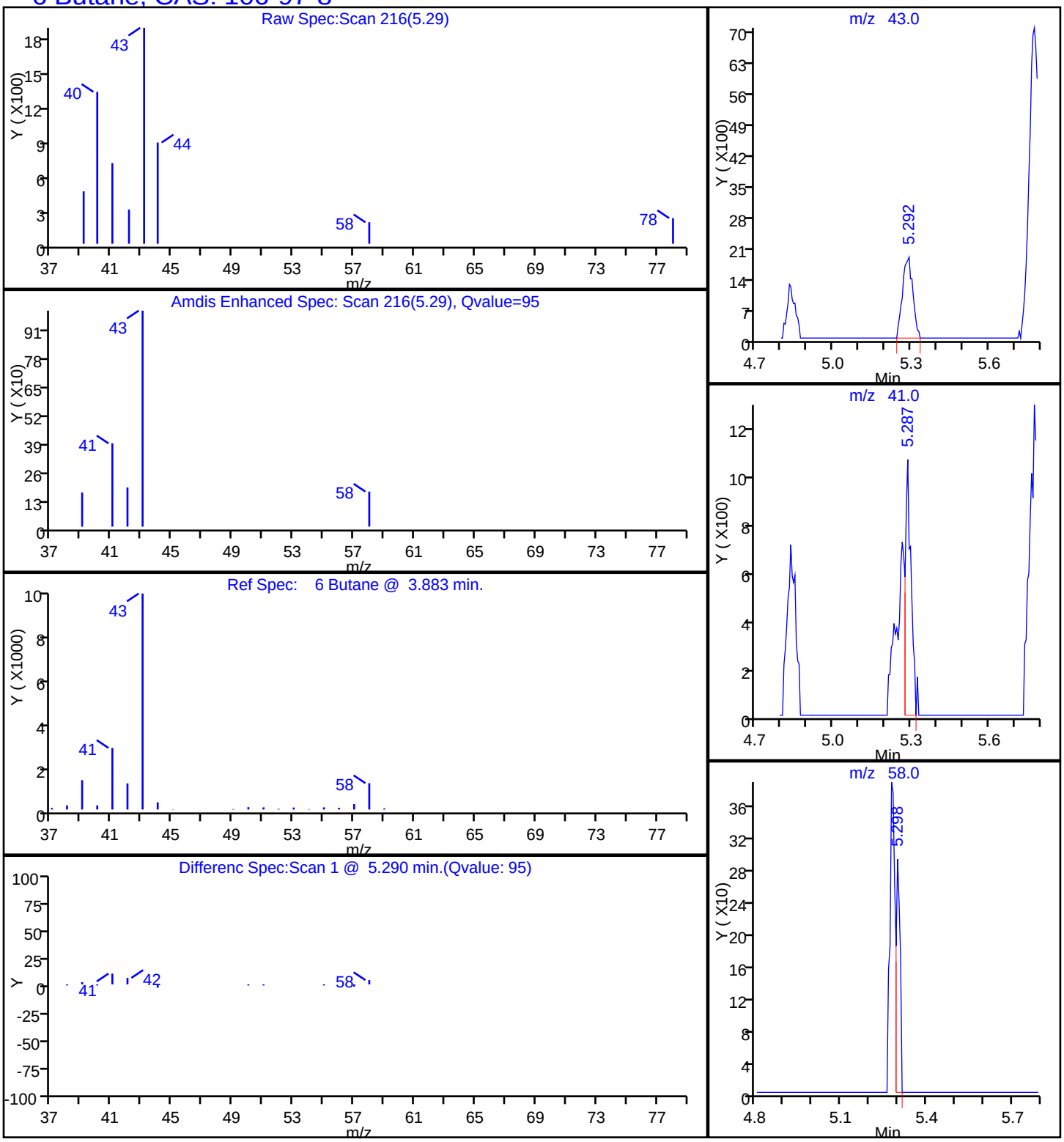
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8



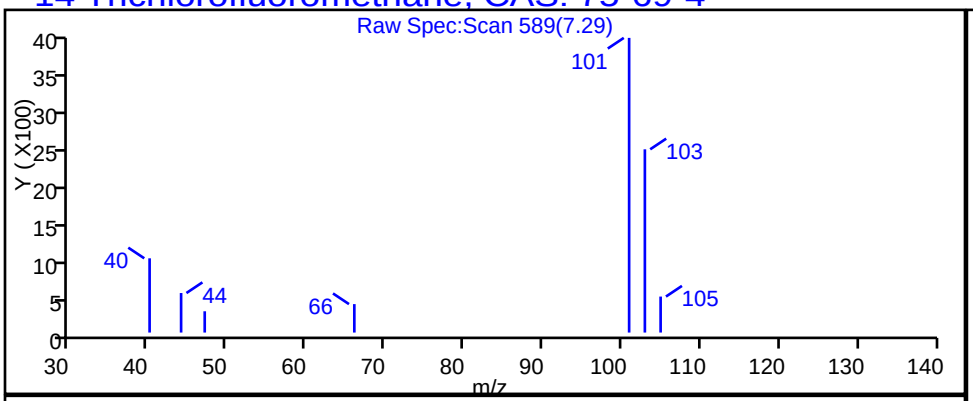
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

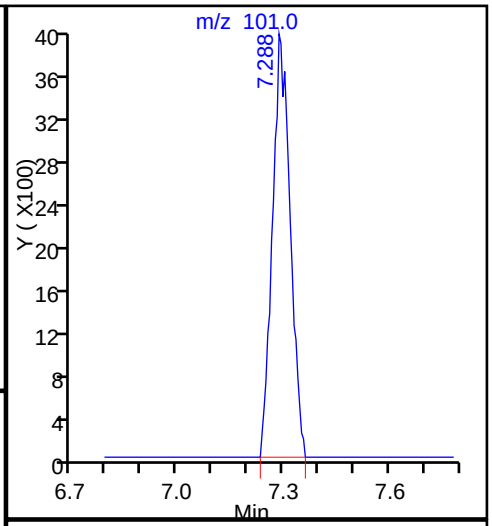
TestAmerica Burlington

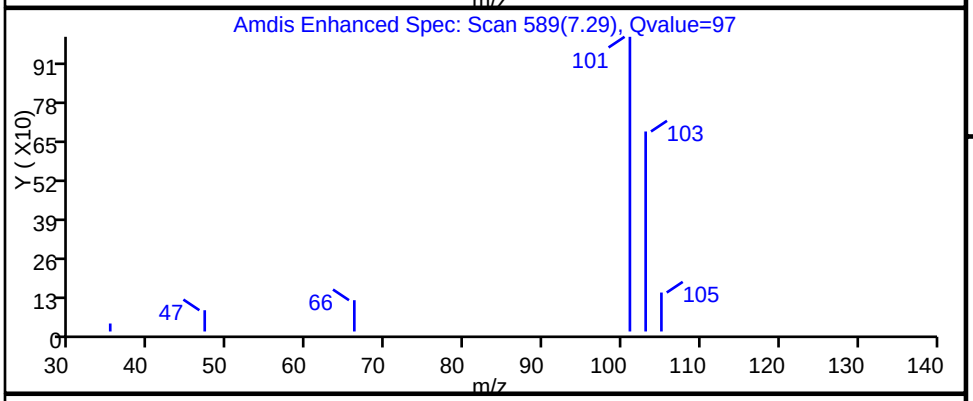
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

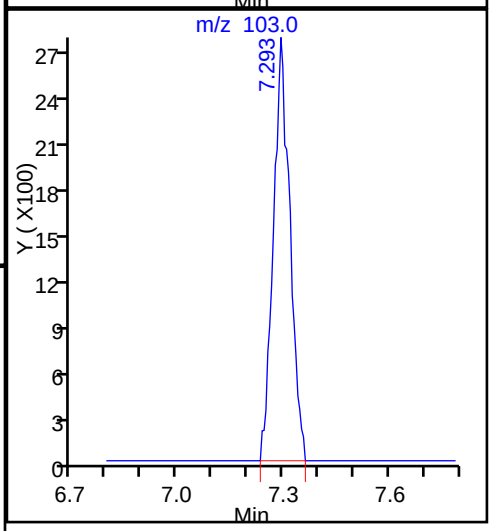
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

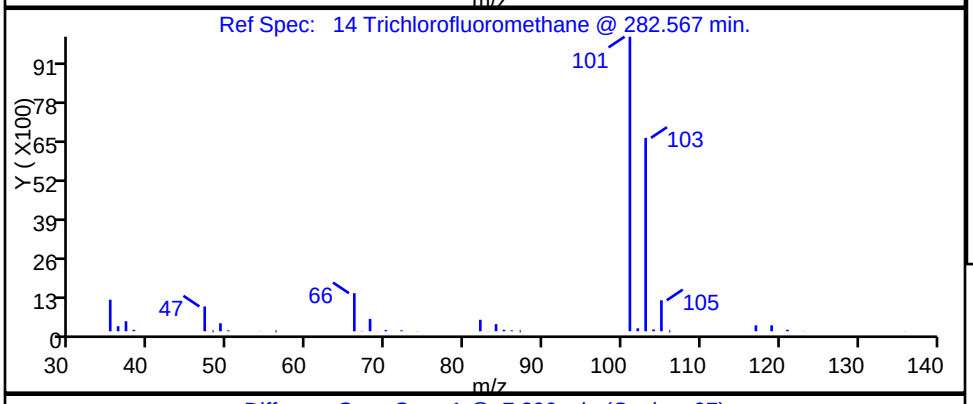
14 Trichlorofluoromethane, CAS: 75-69-4

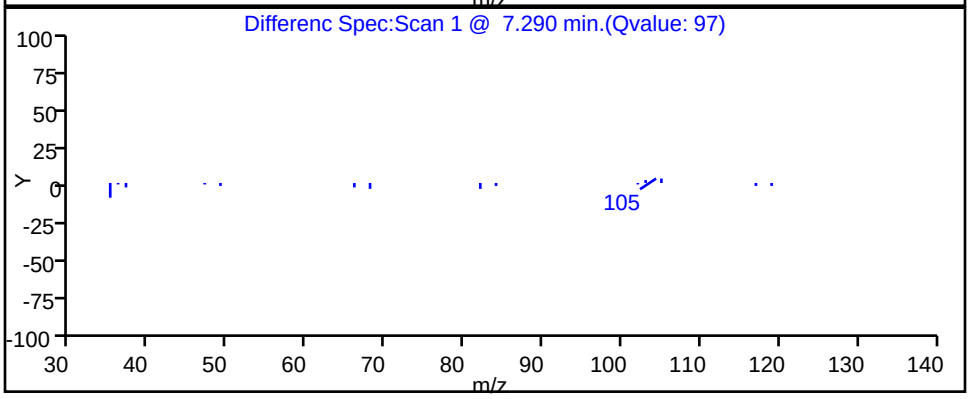












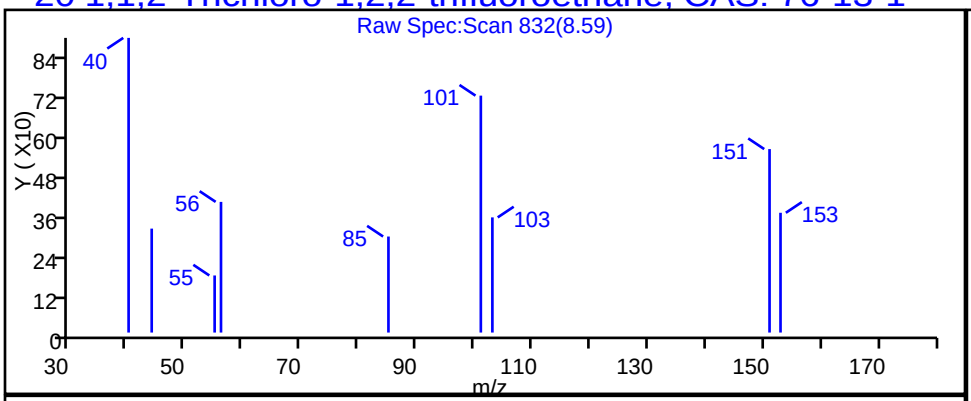
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

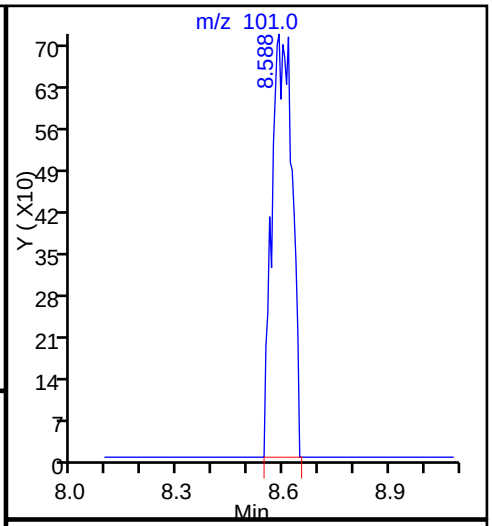
TestAmerica Burlington

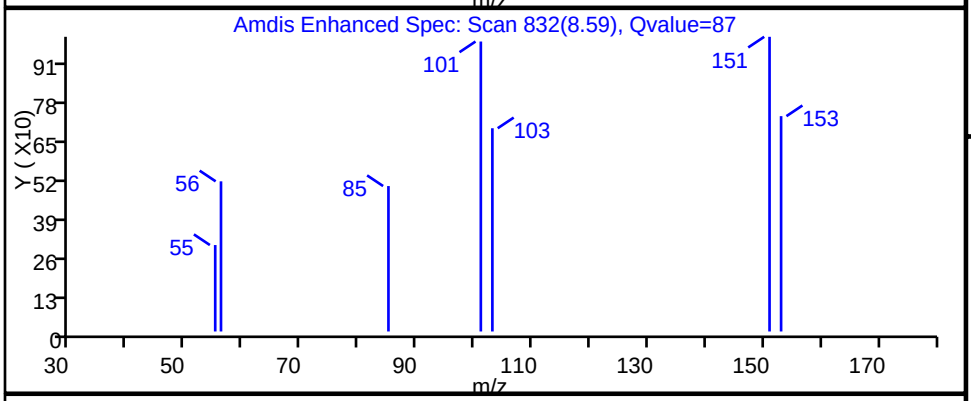
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

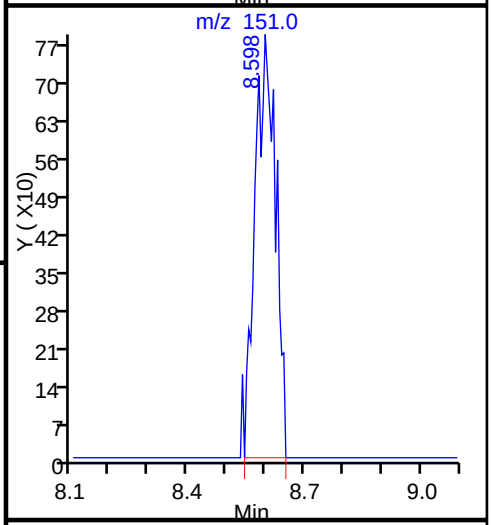
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

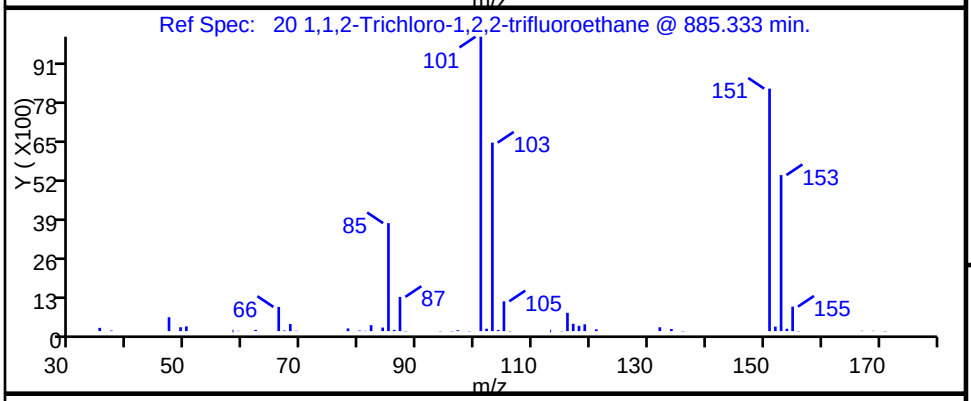
20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

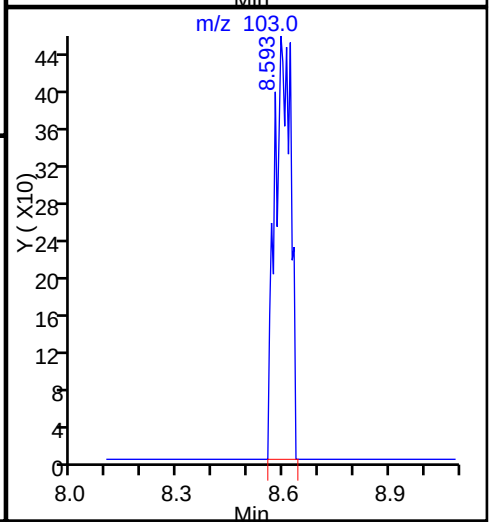


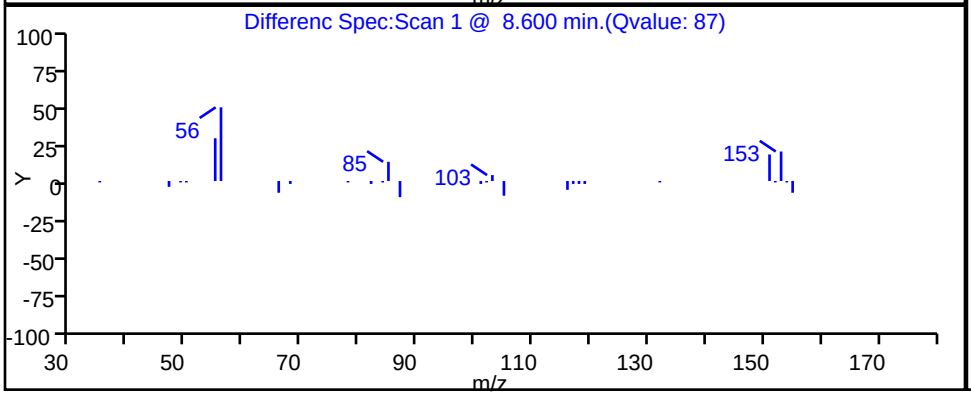










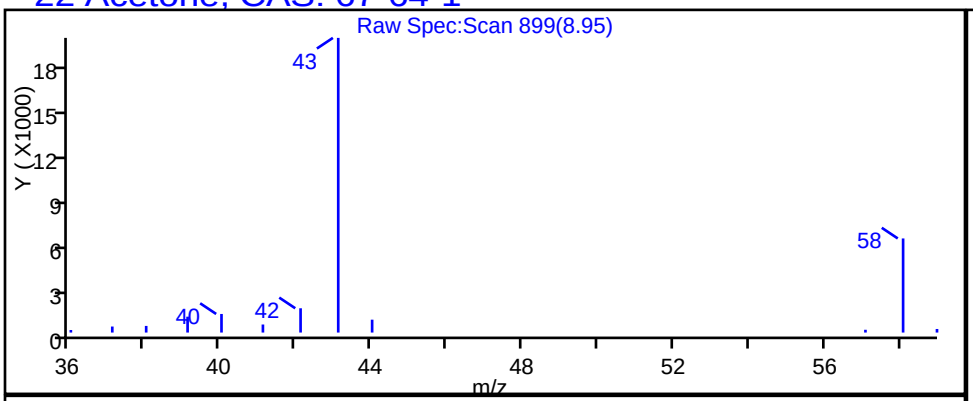


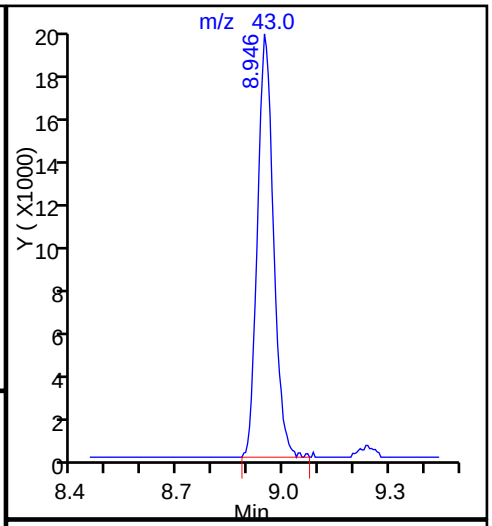
Report Date: 30-Sep-2015 14:18:22 Chrom Revision: 2.2 23-Jul-2015 08:26:08

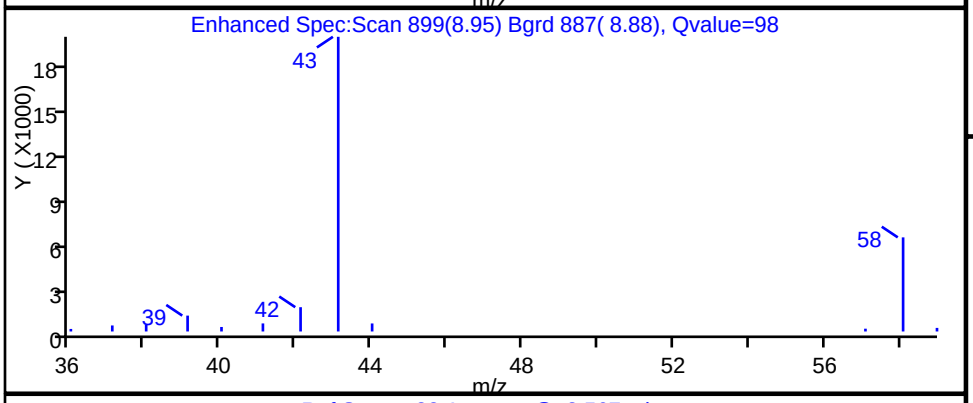
TestAmerica Burlington

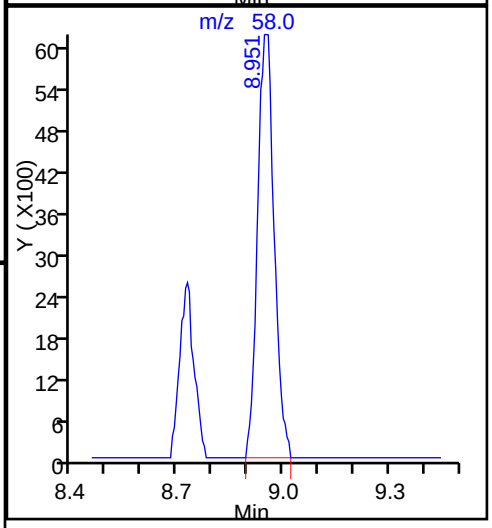
Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d				
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

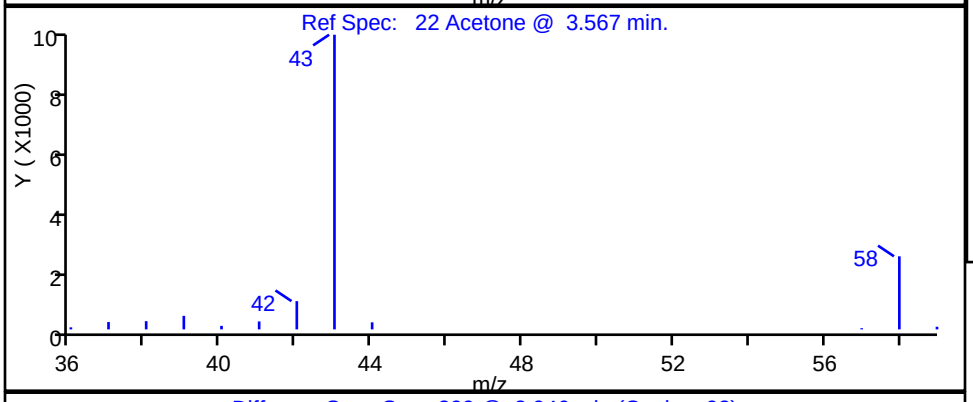
22 Acetone, CAS: 67-64-1

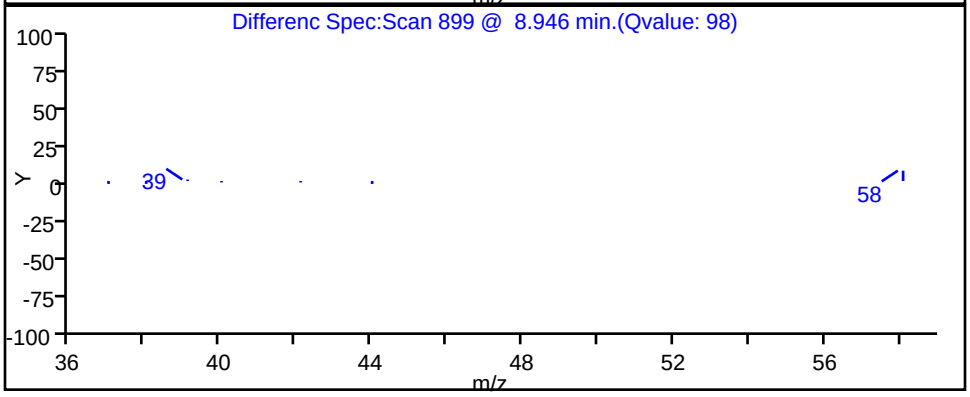












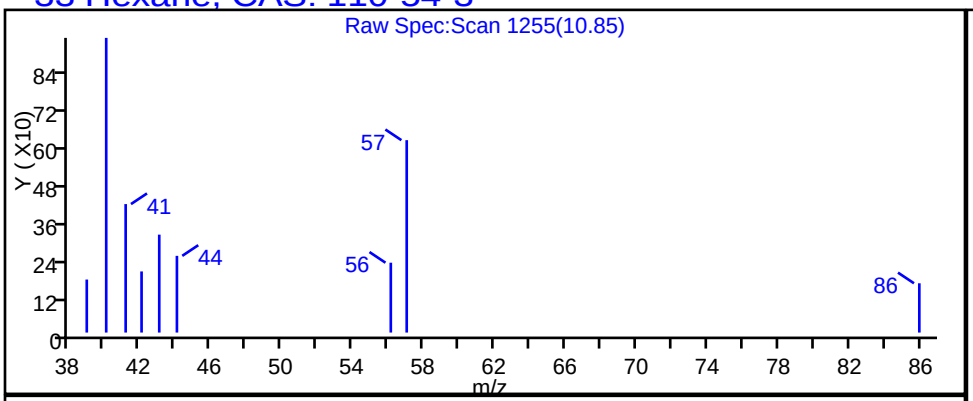
Report Date: 30-Sep-2015 14:18:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

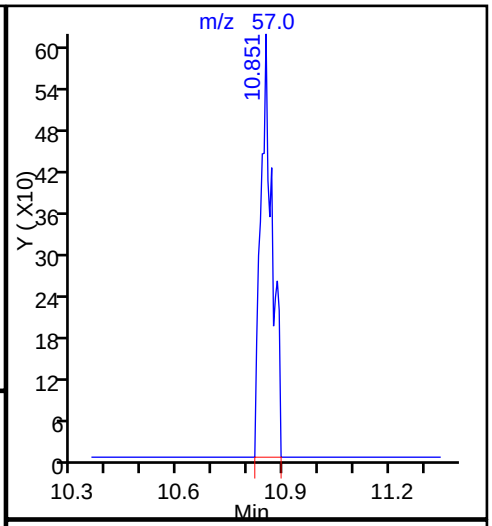
TestAmerica Burlington

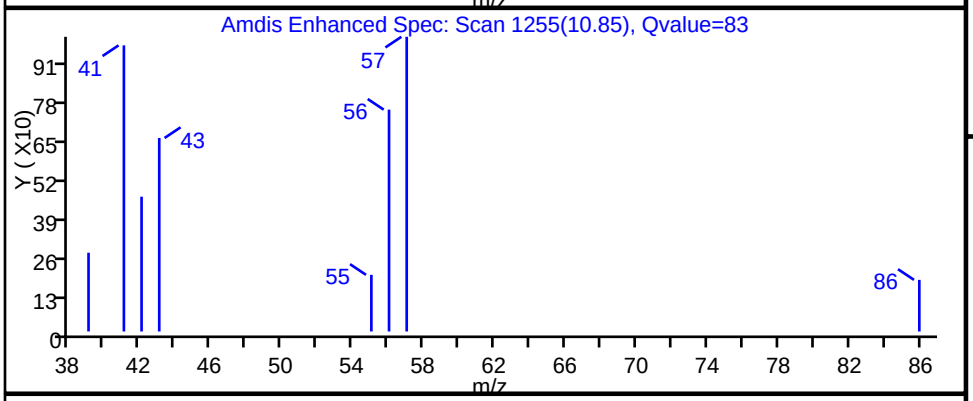
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

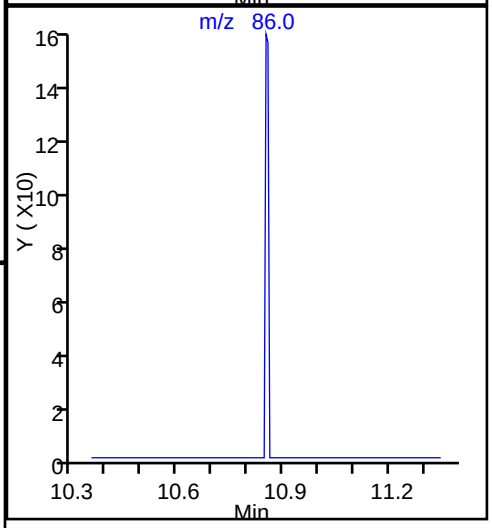
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

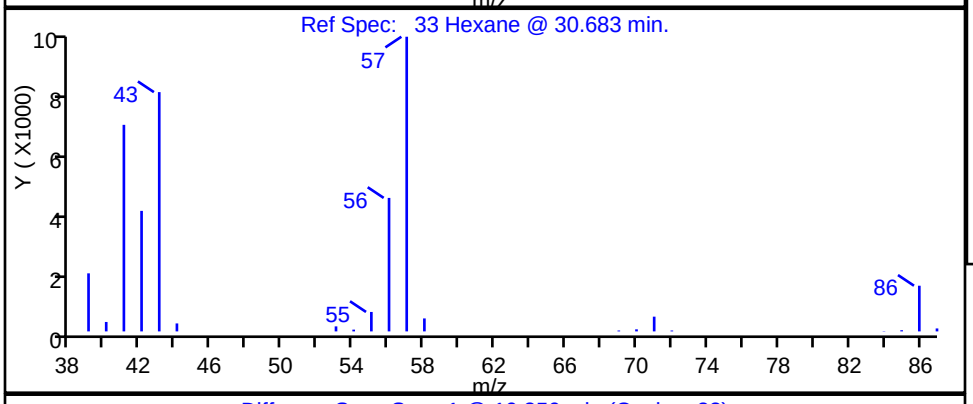
33 Hexane, CAS: 110-54-3

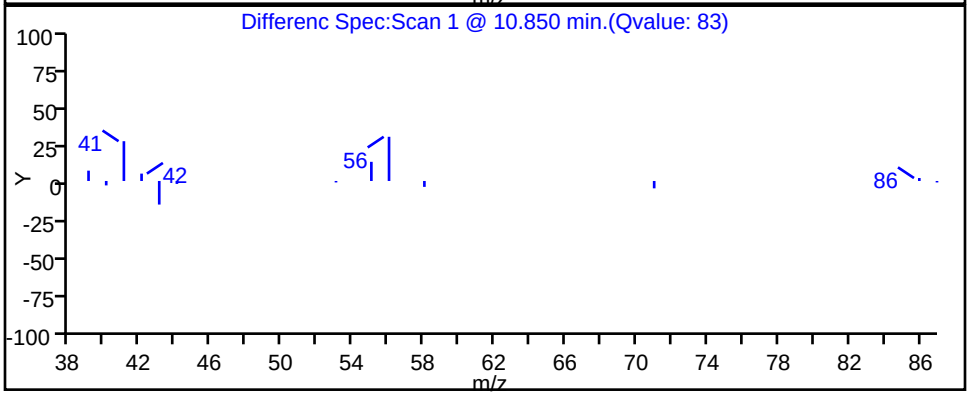












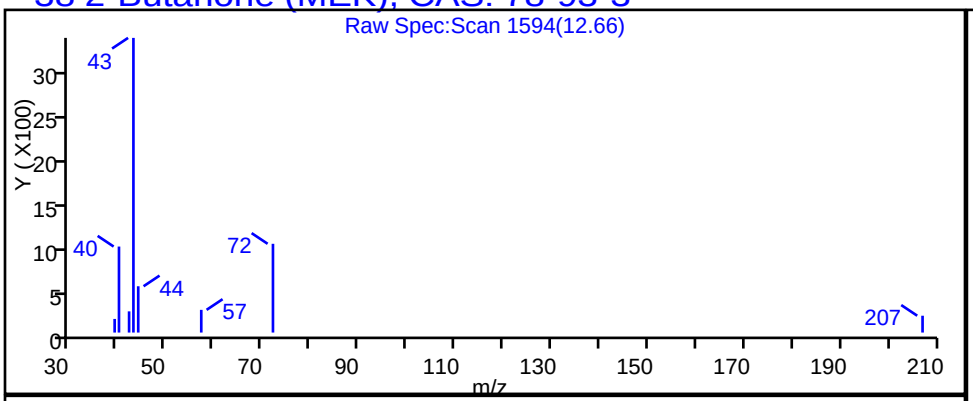
Report Date: 30-Sep-2015 14:18:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

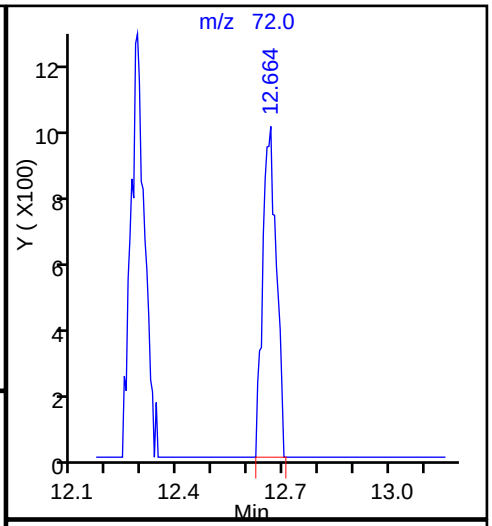
TestAmerica Burlington

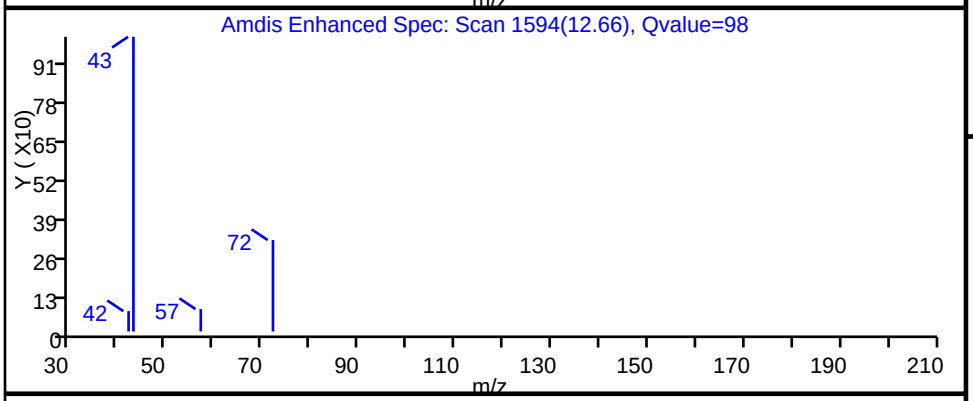
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

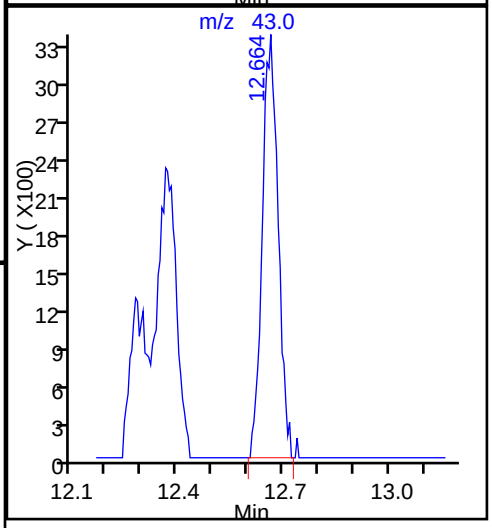
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

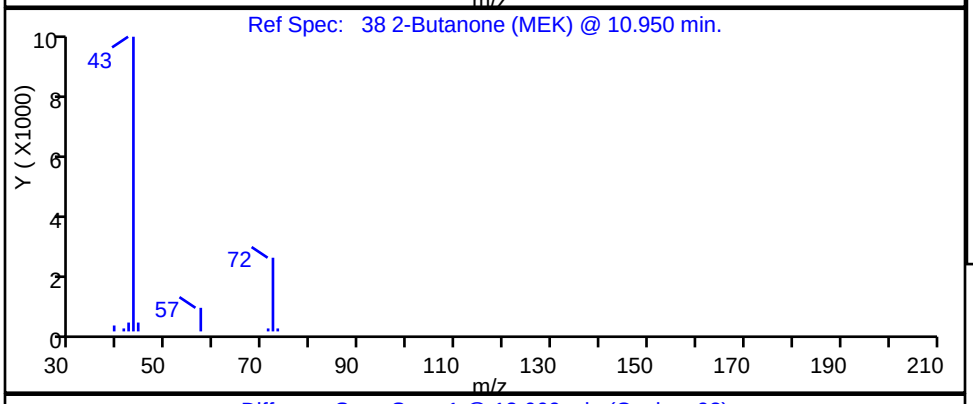
38 2-Butanone (MEK), CAS: 78-93-3

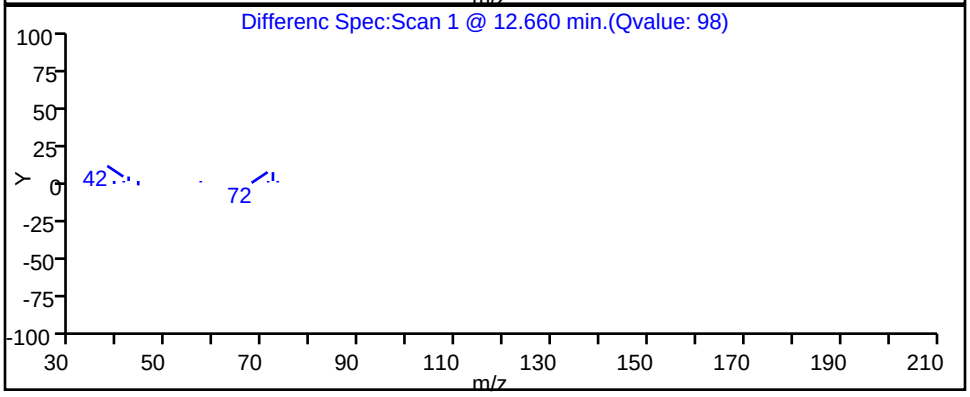












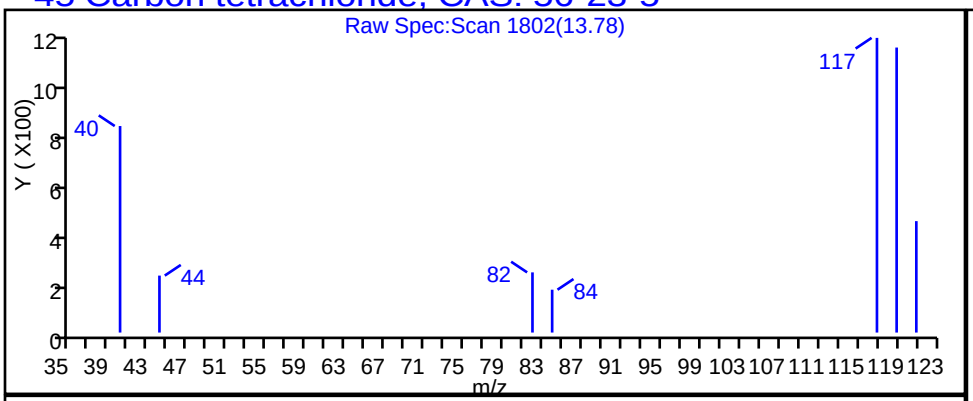
Report Date: 30-Sep-2015 14:18:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

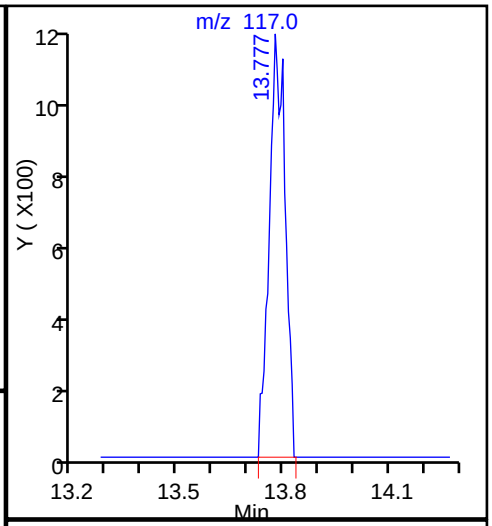
TestAmerica Burlington

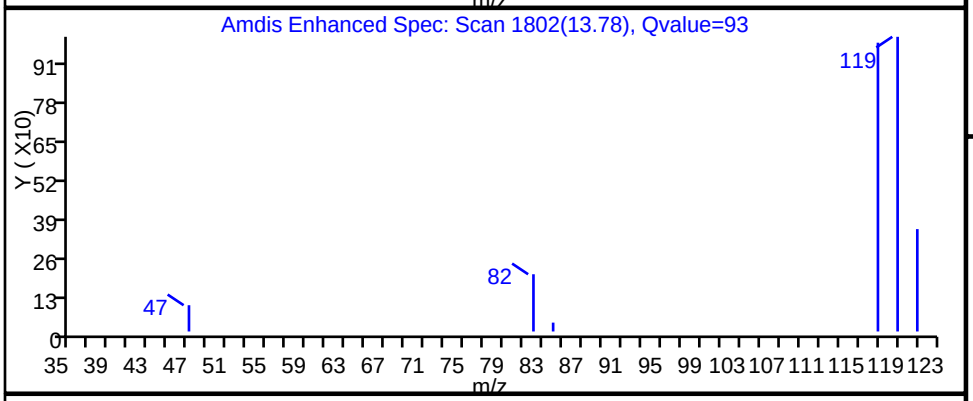
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

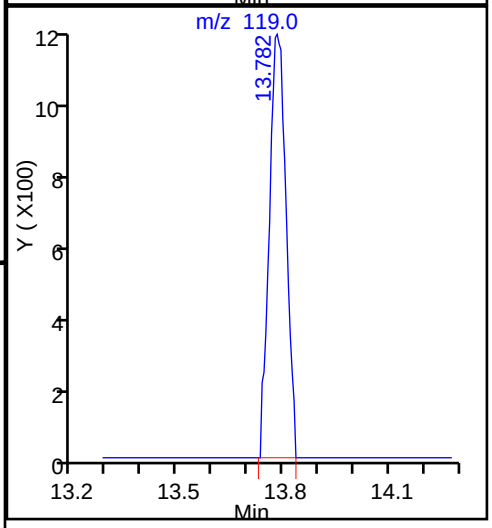
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

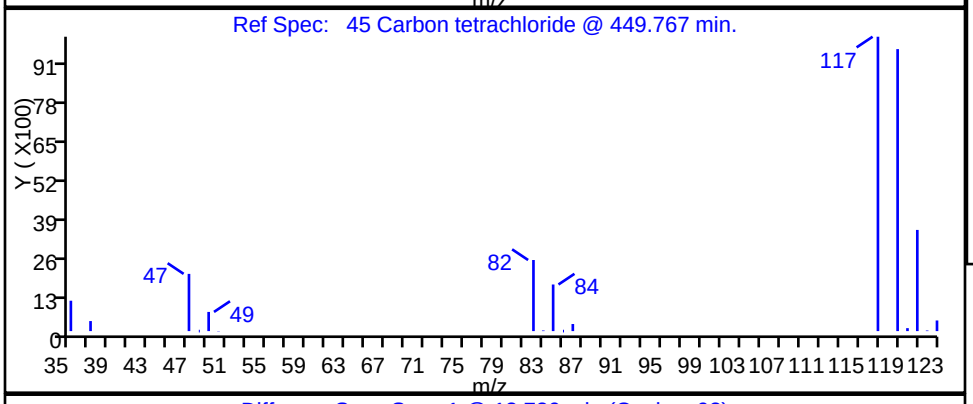
45 Carbon tetrachloride, CAS: 56-23-5

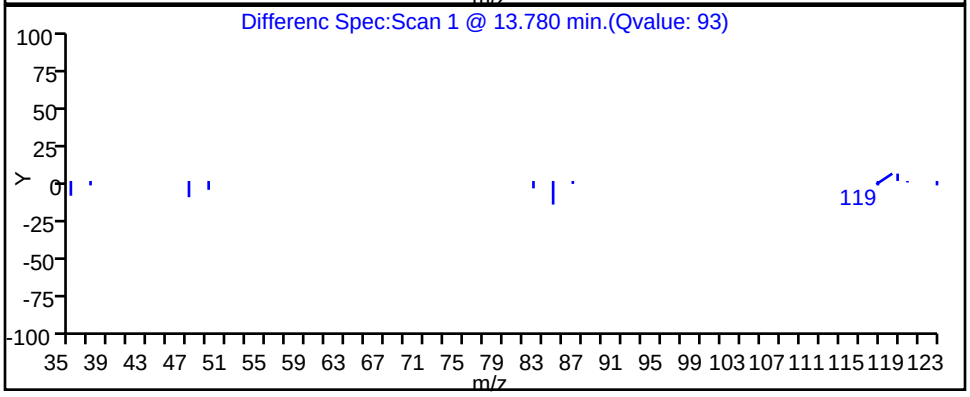












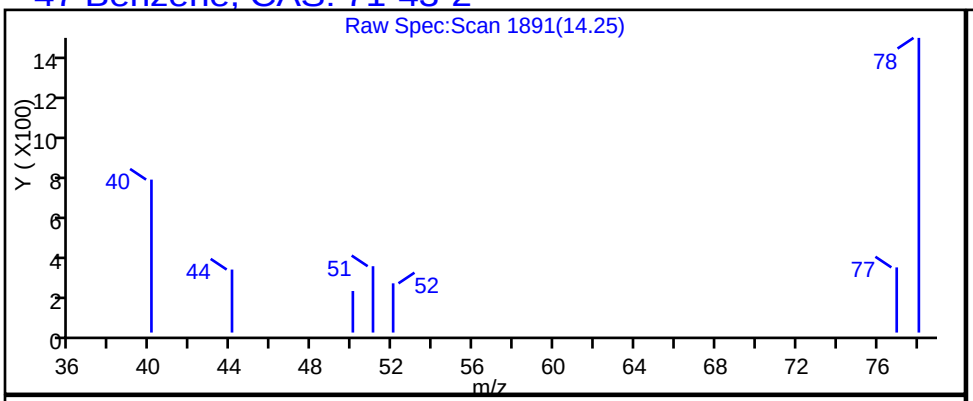
Report Date: 30-Sep-2015 14:18:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

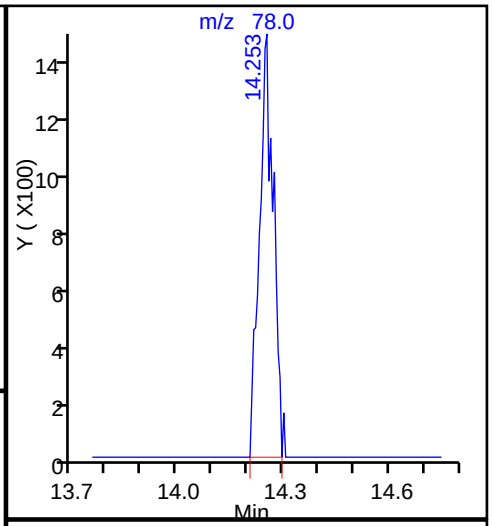
TestAmerica Burlington

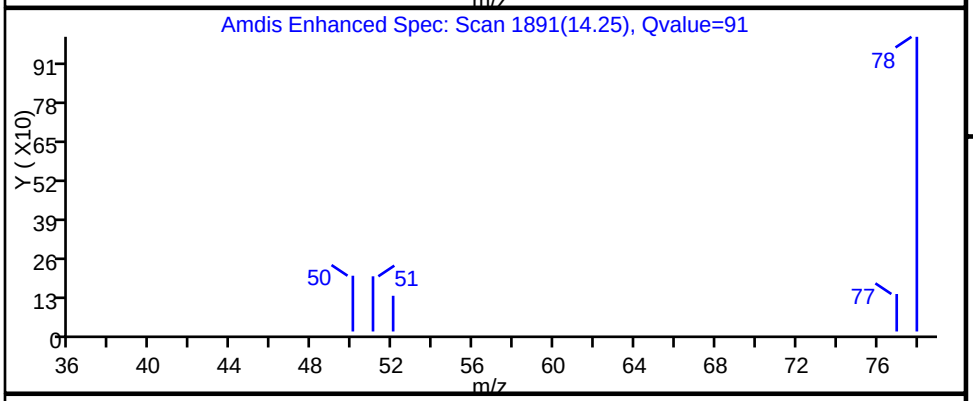
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

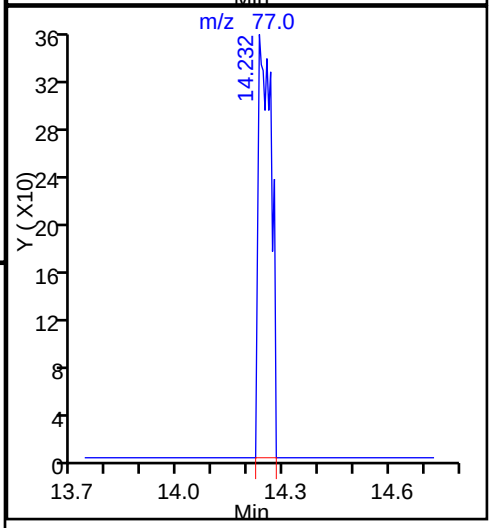
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

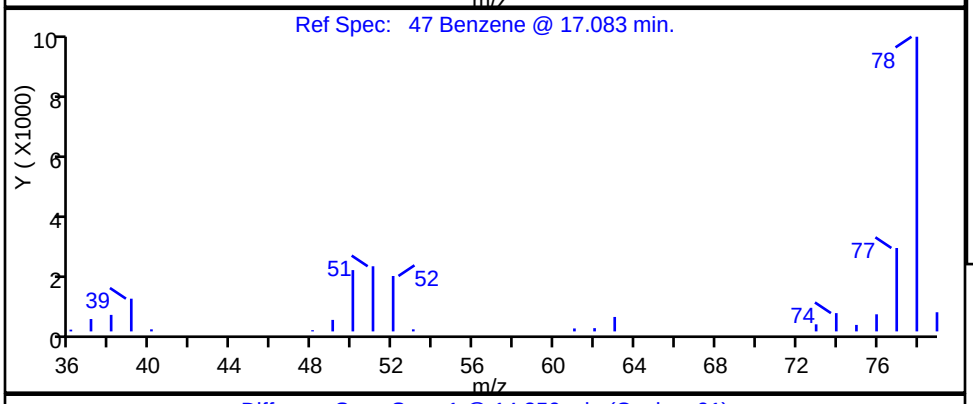
47 Benzene, CAS: 71-43-2

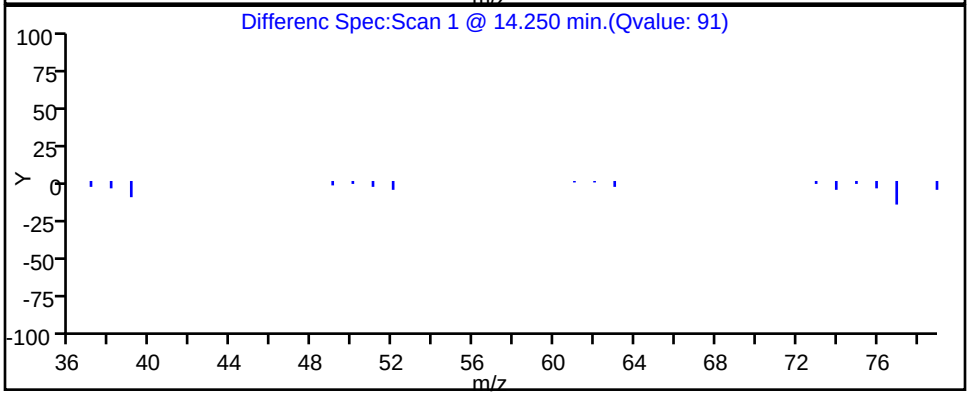












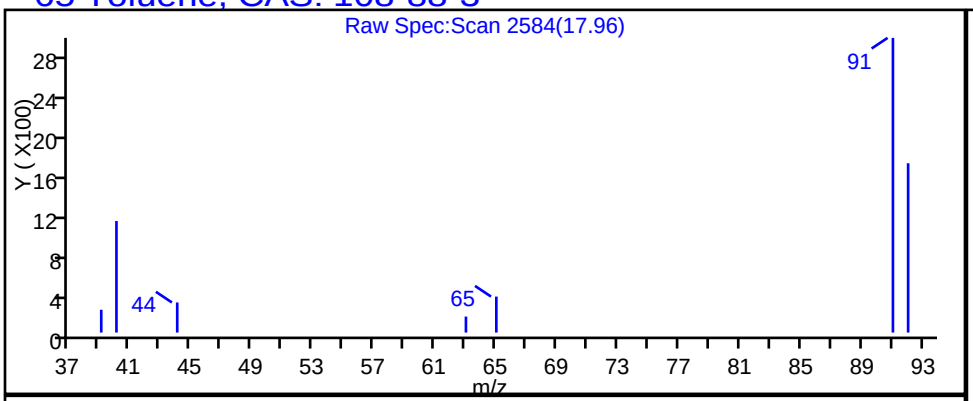
Report Date: 30-Sep-2015 14:18:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

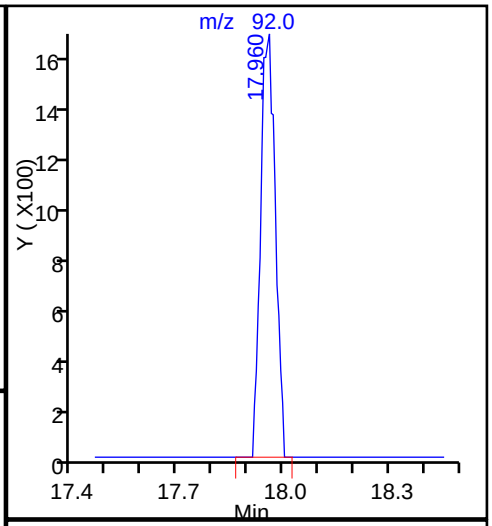
TestAmerica Burlington

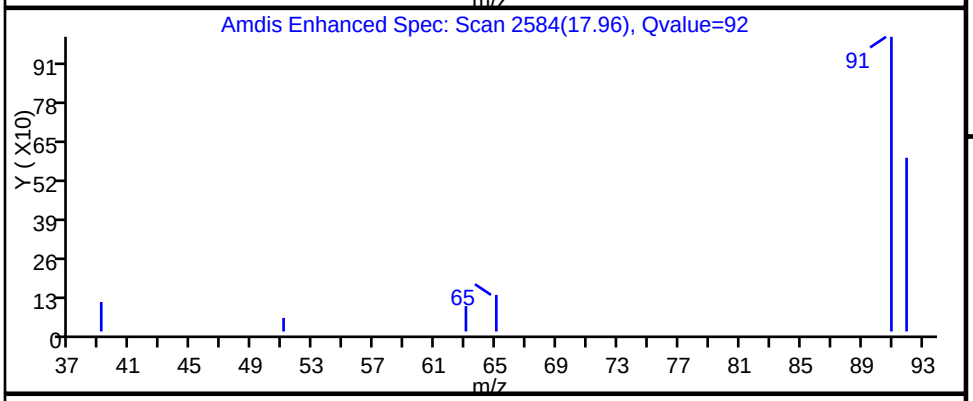
Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d

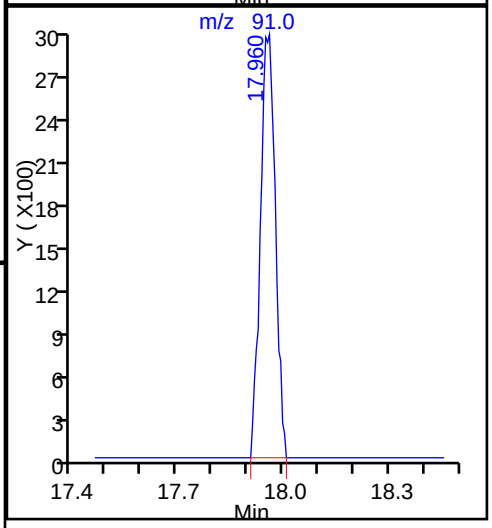
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

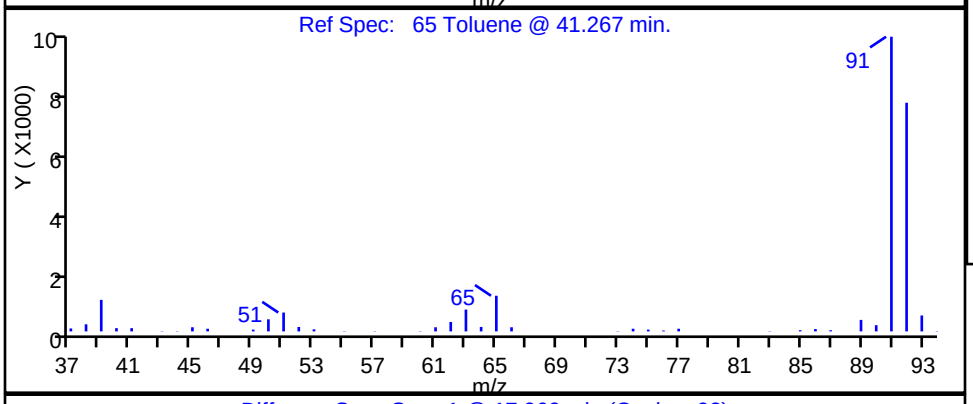
65 Toluene, CAS: 108-88-3

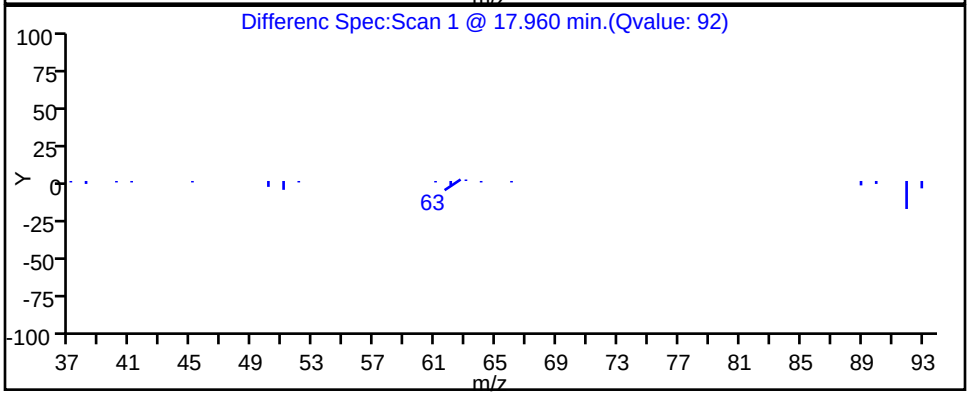












Manual Integration/User Assign Peak Report

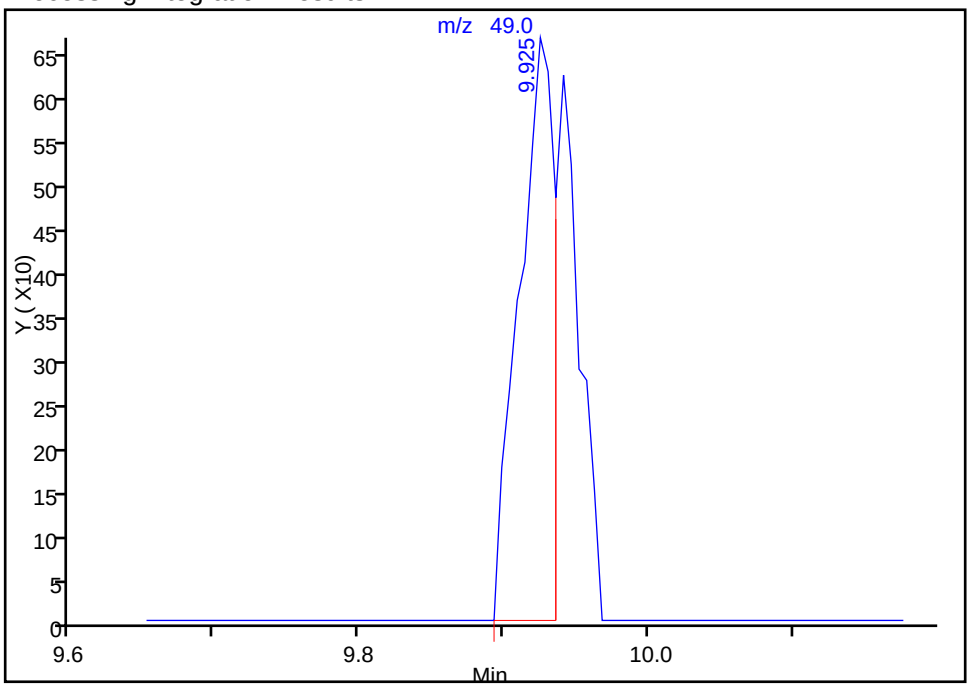
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d				
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

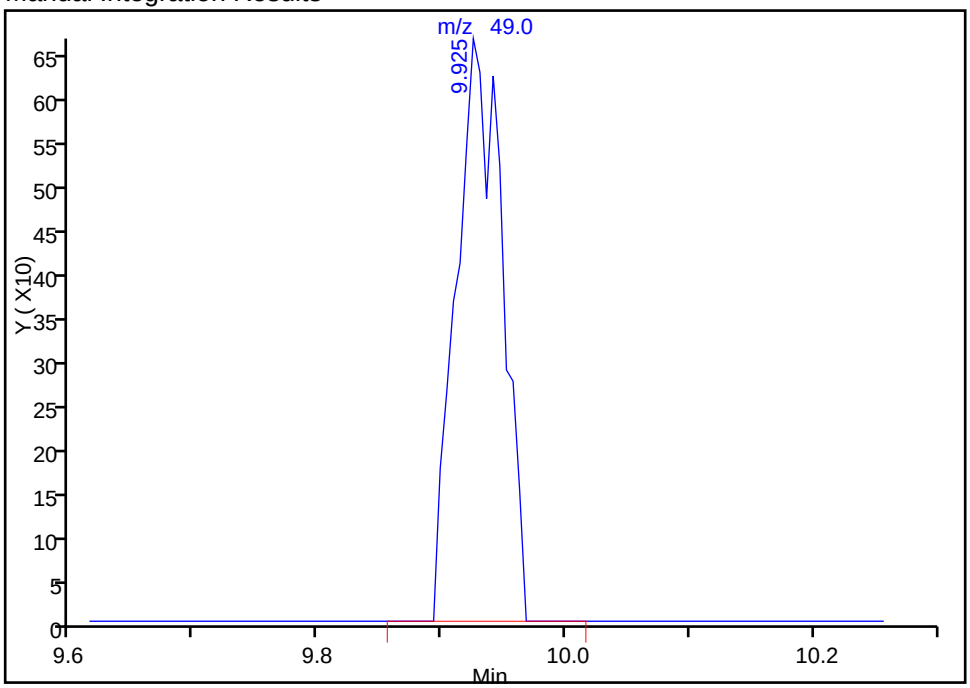
Processing Integration Results

RT: 9.93
Area: 1141
Amount: 0.096063
Amount Units: ppb v/v



Manual Integration Results

RT: 9.93
Area: 1740
Amount: 0.146495
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:12:18
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

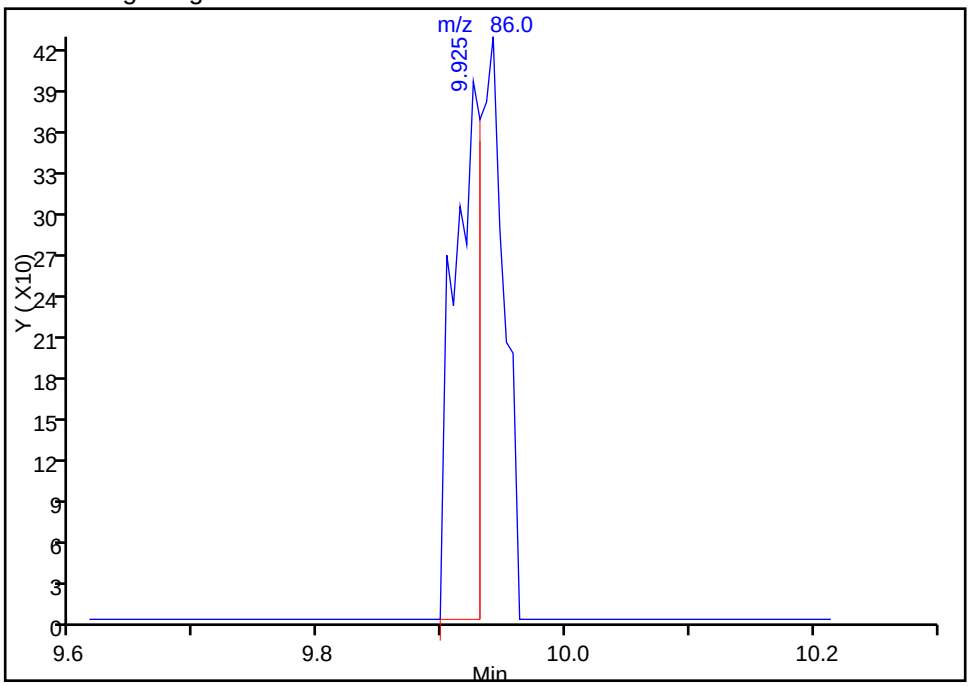
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d				
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

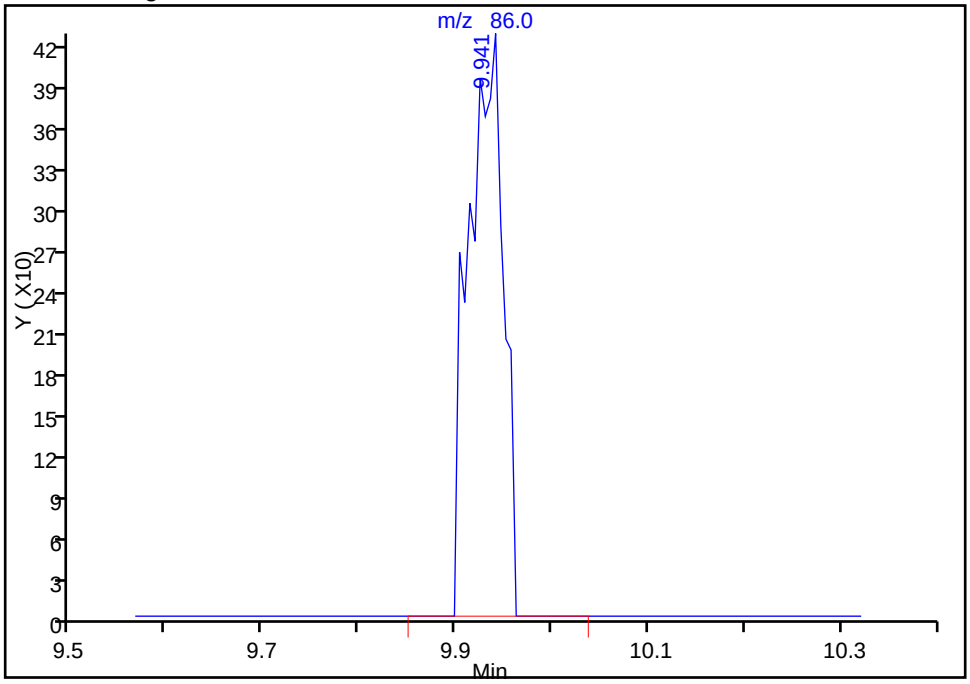
Processing Integration Results

RT: 9.93
Area: 592
Amount: 0.096063
Amount Units: ppb v/v



Manual Integration Results

RT: 9.94
Area: 1072
Amount: 0.146495
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:12:18
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

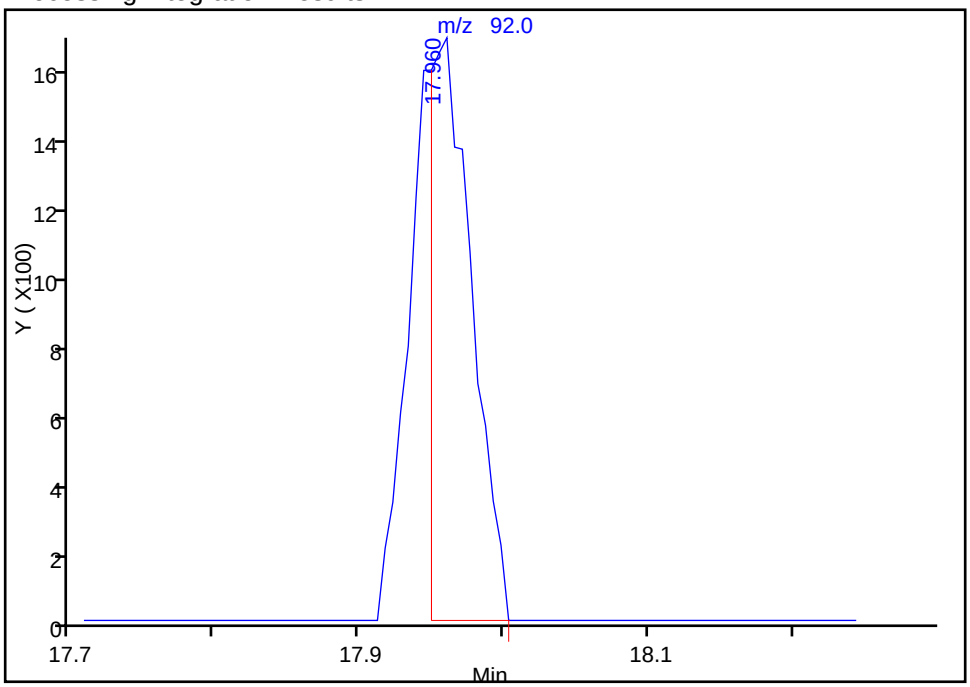
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_023.d				
Injection Date:	30-Sep-2015 04:42:30	Instrument ID:	CHW.i		
Lims ID:	200-29972-A-22	Lab Sample ID:	200-29972-22		
Client ID:	FR-AA-092315				
Operator ID:	pad	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

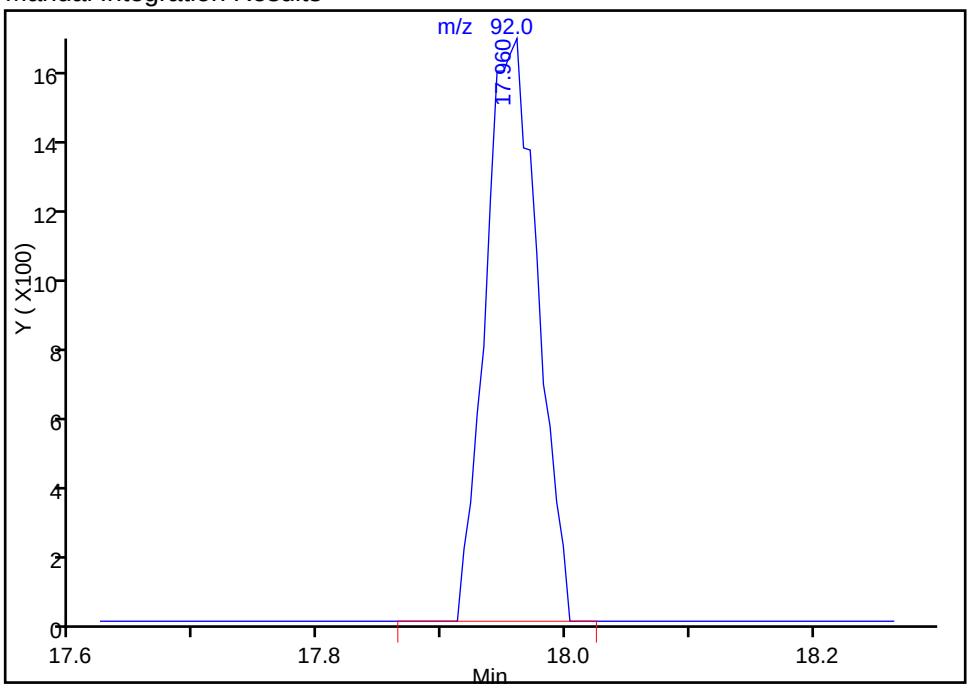
Processing Integration Results

RT: 17.96
Area: 3397
Amount: 0.087187
Amount Units: ppb v/v



Manual Integration Results

RT: 17.96
Area: 4931
Amount: 0.126559
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 14:12:18
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-94650/3	15979_003.d
Level 2	IC 200-94650/4	15979_004.d
Level 3	IC 200-94650/5	15979_005.d
Level 4	IC 200-94650/6	15979_006.d
Level 5	ICIS 200-94650/7	15979_007.d
Level 6	IC 200-94650/8	15979_008.d
Level 7	IC 200-94650/9	15979_009.d
Level 8	IC 200-94650/10	15979_010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.4375	+++++ 0.5124	+++++ 0.4342	0.5062	0.4989	Ave		0.4778				8.1		30.0			
Dichlorodifluoromethane	+++++ 2.8991	+++++ 3.4836	3.4262 2.9916	3.1035	3.1495	Ave		3.1756				7.4		30.0			
Freon 22	+++++ 1.1495	+++++ 1.3605	1.4486 1.1829	1.2745	1.2647	Ave		1.2801				8.7		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 2.4505	2.8408 2.9374	3.0419 2.4992	2.6862	2.6960	Ave		2.7360				8.0		30.0			
Chloromethane	+++++ 0.5508	+++++ 0.6523	0.7095 0.5767	0.6220	0.6102	Ave		0.6203				9.1		30.0			
n-Butane	+++++ 0.8052	+++++ 0.9572	0.9568 0.8788	0.9104	0.9136	Ave		0.9037				6.3		30.0			
Vinyl chloride	0.5218 0.6884	0.7285 0.8215	0.8001 0.7389	0.7589	0.7701	Ave		0.7285				12.8		30.0			
1,3-Butadiene	+++++ 0.4617	0.4469 0.5467	0.5300 0.4937	0.5054	0.5188	Ave		0.5005				7.2		30.0			
Bromomethane	+++++ 0.8341	0.9485 1.0150	1.0048 0.8825	0.9287	0.9428	Ave		0.9366				6.8		30.0			
Chloroethane	+++++ 0.4420	+++++ 0.5183	0.5305 0.4540	0.4757	0.4797	Ave		0.4834				7.2		30.0			
Isopentane	+++++ 0.6970	0.6679 0.7921	0.7535 0.6906	0.7599	0.7760	Ave		0.7339				6.5		30.0			
Bromoethene(Vinyl Bromide)	+++++ 1.1234	1.0217 1.3460	1.1297 1.1782	1.0937	1.1702	Ave		1.1518				8.7		30.0			
Trichlorofluoromethane	+++++ 3.2945	3.5858 3.9907	3.8990 3.5168	3.4237	3.5214	Ave		3.6045				7.0		30.0			
n-Pentane	+++++ 1.0266	+++++ 1.1816	1.0268 1.0200	1.0984	1.1293	Ave		1.0804				6.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.2722	+++++ 0.3212	0.3536 0.2715	0.3091	0.3059	Ave		0.3056				10.2		30.0			
Ethyl ether	+++++ 0.5333	0.3933 0.6429	0.5162 0.5645	0.5510	0.5824	Ave		0.5405				14.2		30.0			
Acrolein	+++++ 0.1884	+++++ 0.1877	+++++ 0.2008	0.2044	0.2143	Ave		0.1991				5.6		30.0			
Freon TF	+++++ 2.1416	2.3293 2.5603	2.5789 2.1459	2.2677	2.3160	Ave		2.3343				7.6		30.0			
1,1-Dichloroethene	+++++ 1.0222	0.8311 1.2356	0.9992 1.0493	1.0267	1.0790	Ave		1.0347				11.5		30.0			
Acetone	+++++ 1.0034	+++++ 1.2449	+++++ 1.0324	1.1653	1.1468	Ave		1.1186				8.9		30.0			
Carbon disulfide	+++++ 2.2884	+++++ 2.7233	2.6671 2.3698	2.4243	2.4752	Ave		2.4913				6.8		30.0			
Isopropyl alcohol	+++++ 0.8463	+++++ 0.9928	+++++ 0.8676	0.8468	0.9076	Ave		0.8922				6.9		30.0			
3-Chloropropene	+++++ 0.7322	0.5339 0.8670	0.6611 0.7365	0.7606	0.7873	Ave		0.7255				14.5		30.0			
Acetonitrile	+++++ 0.3744	+++++ 0.4311	+++++ 0.3736	0.4278	0.4155	Ave		0.4045				7.0		30.0			
Methylene Chloride	+++++ 0.7243	+++++ 0.8502	1.0082 0.7296	0.8125	0.7992	Ave		0.8207				12.7		30.0			
tert-Butyl alcohol	+++++ 1.4887	+++++ 1.8141	+++++ 1.6465	1.3870	1.5475	Ave		1.5768				10.3		30.0			
Methyl tert-butyl ether	+++++ 2.7695	1.8770 3.4412	2.3067 3.0801	2.7514	2.9882	Ave		2.7449				18.8		30.0			
trans-1,2-Dichloroethene	+++++ 1.1847	1.0449 1.4240	1.2465 1.2115	1.2771	1.3011	Ave		1.2414				9.4		30.0			
Acrylonitrile	+++++ 0.4709	+++++ 0.5592	0.4545 0.4925	0.5029	0.5173	Ave		0.4996				7.4		30.0			
n-Hexane	+++++ 1.1111	0.7274 1.3217	0.9565 1.1112	1.1798	1.2120	Ave		1.0886				17.9		30.0			
1,1-Dichloroethane	1.5653 1.5039	1.4740 1.7940	1.7188 1.5542	1.6148	1.6356	Ave		1.6076				6.7		30.0			
Vinyl acetate	+++++ 1.4534	+++++ 1.7165	+++++ 1.5431	1.4900	1.6342	Ave		1.5674				6.9		30.0			
cis-1,2-Dichloroethene	+++++ 1.1323	0.9038 1.3734	1.1721 1.1716	1.1613	1.2111	Ave		1.1608				11.9		30.0			
Methyl Ethyl Ketone	+++++ 0.4523	+++++ 0.5380	0.6762 0.4523	0.4863	0.4991	Ave		0.5174				16.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0877	+++++ 0.1069	+++++ 0.0922	0.0916	0.0958	Ave		0.0948				7.8		30.0			
Tetrahydrofuran	+++++ 0.1416	+++++ 0.1662	+++++ 0.1458	0.1543	0.1622	Ave		0.1540				6.8		30.0			
Chloroform	+++++ 2.2611	2.3123 2.7558	2.6717 2.4180	2.3953	2.4399	Ave		2.4649				7.4		30.0			
Cyclohexane	+++++ 0.2913	0.2070 0.3485	0.2685 0.2902	0.3034	0.3182	Ave		0.2896				15.3		30.0			
1,1,1-Trichloroethane	+++++ 0.5736	0.5803 0.7037	0.6521 0.6124	0.6003	0.6224	Ave		0.6207				7.3		30.0			
Carbon tetrachloride	0.6676 0.6456	0.6427 0.7967	0.7218 0.7080	0.6471	0.6351	Ave		0.6831				8.2		30.0			
2,2,4-Trimethylpentane	+++++ 0.8038	0.5193 0.9489	0.6686 0.7967	0.8596	0.8947	Ave		0.7845				18.7		30.0			
Benzene	+++++ 0.6309	0.6172 0.7511	0.7152 0.6345	0.6904	0.6992	Ave		0.6769				7.4		30.0			
1,2-Dichloroethane	+++++ 0.3007	0.2934 0.3681	0.3401 0.3278	0.3168	0.3277	Ave		0.3249				7.7		30.0			
n-Heptane	+++++ 0.2509	0.1485 0.2912	0.2158 0.2431	0.2759	0.2853	Ave		0.2444				20.4		30.0			
n-Butanol	+++++ 0.0843	+++++ 0.0975	+++++ 0.0909	0.0770	0.0873	Ave		0.0874				8.7		30.0			
Trichloroethene	0.3034 0.3344	0.3070 0.4060	0.3656 0.3486	0.3492	0.3648	Ave		0.3474				9.6		30.0			
1,2-Dichloropropane	+++++ 0.2022	0.1927 0.2424	0.2255 0.2062	0.2193	0.2241	Ave		0.2160				7.8		30.0			
Methyl methacrylate	+++++ 0.2237	+++++ 0.2659	0.1868 0.2316	0.2284	0.2460	Ave		0.2304				11.4		30.0			
1,4-Dioxane	+++++ 0.1107	+++++ 0.1318	+++++ 0.1112	0.1173	0.1221	Ave		0.1186				7.4		30.0			
Dibromomethane	+++++ 0.4307	0.4333 0.5264	0.4839 0.4466	0.4399	0.4670	Ave		0.4611				7.5		30.0			
Bromodichloromethane	+++++ 0.5476	0.5228 0.6695	0.6243 0.5876	0.5814	0.5990	Ave		0.5903				8.2		30.0			
cis-1,3-Dichloropropene	+++++ 0.3655	0.2342 0.4441	0.2840 0.3937	0.3586	0.3963	Ave		0.3538				20.3		30.0			
methyl isobutyl ketone	+++++ 0.3474	+++++ 0.3976	0.2898 0.3400	0.3679	0.3916	Ave		0.3557				11.1		30.0			
n-Octane	+++++ 0.3259	0.1982 0.3726	0.3007 0.2914	0.3956	0.3885	Ave		0.3247				21.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Toluene	+++++ 0.5390	0.4430 0.6379	0.7128 0.5032	0.6030	0.6104	Ave		0.5785				15.6		30.0			
trans-1,3-Dichloropropene	+++++ 0.4027	0.2755 0.4948	0.3818 0.4377	0.4064	0.4394	Ave		0.4055				16.7		30.0			
1,1,2-Trichloroethane	+++++ 0.2575	0.2420 0.3155	0.2993 0.2625	0.2782	0.2839	Ave		0.2770				9.1		30.0			
Tetrachloroethene	0.6466 0.6746	0.6078 0.8383	0.7112 0.6834	0.6797	0.7267	Ave		0.6961				9.8		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.3746	+++++ 0.4282	0.3633 0.3634	0.3822	0.4088	Ave		0.3868				6.8		30.0			
Dibromochloromethane	+++++ 0.7542	0.6816 0.9373	0.8032 0.7897	0.7702	0.8074	Ave		0.7919				9.7		30.0			
1,2-Dibromoethane	+++++ 0.5644	0.4945 0.6953	0.5942 0.5918	0.5833	0.6141	Ave		0.5911				10.1		30.0			
Chlorobenzene	+++++ 0.8537	0.9169 1.0360	1.0192 0.8481	0.9118	0.9436	Ave		0.9328				7.9		30.0			
Ethylbenzene	+++++ 1.2596	1.0285 1.4997	1.2958 1.1983	1.3666	1.4076	Ave		1.2937				11.9		30.0			
n-Nonane	+++++ 0.4132	0.3027 0.4767	0.4437 0.3688	0.4869	0.4790	Ave		0.4245				16.1		30.0			
m,p-Xylene	+++++ 0.5061	0.4069 0.5854	0.5545 0.4521	0.5773	0.5758	Ave		0.5226				13.4		30.0			
Xylene, o-	+++++ 0.5355	0.3276 0.6323	0.4642 0.4953	0.5595	0.5924	Ave		0.5153				19.4		30.0			
Styrene	+++++ 0.8185	0.5192 0.9612	0.7652 0.7630	0.9069	0.9198	Ave		0.8077				18.4		30.0			
Bromoform	+++++ 0.8446	0.7170 1.0316	0.8384 0.8263	0.8611	0.8948	Ave		0.8591				10.9		30.0			
Cumene	+++++ 1.6149	1.0123 1.9307	1.4678 1.5159	1.7216	1.7815	Ave		1.5778				18.7		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.7424	0.7835 0.8643	0.8899 0.6668	0.8135	0.8281	Ave		0.7984				9.5		30.0			
n-Propylbenzene	+++++ 1.8924	1.4594 2.1959	1.9246 1.6373	2.0701	2.1221	Ave		1.9003				14.1		30.0			
1,2,3-Trichloropropane	+++++ 0.5716	+++++ 0.6658	0.7486 0.5173	0.6396	0.6425	Ave		0.6309				12.6		30.0			
n-Decane	+++++ 0.6174	+++++ 0.7010	0.6424 0.5170	0.7229	0.7163	Ave		0.6528				12.1		30.0			
4-Ethyltoluene	+++++ 1.7269	1.3485 2.0133	1.8176 1.5224	1.8669	1.9221	Ave		1.7454				13.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.3942	1.3049 1.6528	1.5759 1.2819	1.5018	1.5430	Ave		1.4649				9.6		30.0			
1,3,5-Trimethylbenzene	+++++ 1.4989	1.1472 1.7811	1.5363 1.3835	1.5758	1.6376	Ave		1.5086				13.3		30.0			
Alpha Methyl Styrene	+++++ 0.8102	0.4172 0.9475	0.6041 0.7575	0.8095	0.8803	Ave		0.7466				24.2		30.0			
tert-Butylbenzene	+++++ 1.5034	1.0869 1.7701	1.4561 1.3665	1.6020	1.6519	Ave		1.4910				14.9		30.0			
1,2,4-Trimethylbenzene	+++++ 1.5044	1.0464 1.7845	1.4790 1.3959	1.5948	1.6578	Ave		1.4947				15.7		30.0			
sec-Butylbenzene	+++++ 2.1007	1.4718 2.4408	2.1261 1.8444	2.3101	2.3490	Ave		2.0918				16.1		30.0			
4-Isopropyltoluene	+++++ 1.8984	1.1712 2.2295	1.7649 1.7045	2.0324	2.1177	Ave		1.8455				19.0		30.0			
1,3-Dichlorobenzene	+++++ 1.1952	1.0318 1.4247	1.3492 1.1061	1.2504	1.3097	Ave		1.2382				11.1		30.0			
1,4-Dichlorobenzene	+++++ 1.2114	0.9572 1.4583	1.2533 1.1312	1.2257	1.3154	Ave		1.2218				12.7		30.0			
Benzyl chloride	+++++ 1.3470	0.8195 1.6008	1.1158 1.3295	1.3588	1.4802	Ave		1.2931				19.8		30.0			
n-Undecane	+++++ 0.6459	+++++ 0.7309	+++++ 0.5117	0.7968	0.7760	Ave		0.6923				16.8		30.0			
n-Butylbenzene	+++++ 1.4899	1.2350 1.7201	1.8410 1.2822	1.7490	1.7200	Ave		1.5768				15.4		30.0			
1,2-Dichlorobenzene	+++++ 1.1632	0.9754 1.3916	1.2839 1.0893	1.1909	1.2611	Ave		1.1936				11.4		30.0			
n-Dodecane	+++++ 0.6475	+++++ 0.7501	+++++ 0.2862	0.6597	0.7834	Ave		0.6254				31.7	*	30.0			
1,2,4-Trichlorobenzene	+++++ 1.0263	+++++ 1.3189	0.8325 0.8184	0.8773	1.1105	Ave		0.9973				19.6		30.0			
Hexachlorobutadiene	+++++ 0.9583	0.9133 1.1667	0.9631 0.6383	0.9311	1.0453	Ave		0.9452				17.0		30.0			
Naphthalene	+++++ 1.9206	+++++ 2.4844	1.6213 1.5685	1.5733	2.1777	Ave		1.8910				20.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.9140	0.6097 1.1720	0.8329 0.5912	0.7942	1.0085	Ave		0.8461				24.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-94650/3	15979_003.d
Level 2	IC 200-94650/4	15979_004.d
Level 3	IC 200-94650/5	15979_005.d
Level 4	IC 200-94650/6	15979_006.d
Level 5	ICIS 200-94650/7	15979_007.d
Level 6	IC 200-94650/8	15979_008.d
Level 7	IC 200-94650/9	15979_009.d
Level 8	IC 200-94650/10	15979_010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 150784	+++++ 194628	+++++ 360479	50170	105214	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 999104	+++++ 1323265	29910 2483606	307612	664240	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 396160	+++++ 516818	12646 982075	126325	266722	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 844527	10552 1115792	26555 2074852	266255	568584	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 189827	+++++ 247799	6194 478760	61653	128696	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 277506	+++++ 363598	8353 729608	90236	192672	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	365 237246	2706 312057	6985 613461	75223	162422	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 159128	1660 207687	4627 409838	50098	109411	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 287456	3523 385574	8772 732656	92051	198832	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 152342	+++++ 196869	4631 376948	47149	101174	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 240217	2481 300904	6578 573350	75324	163657	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 387172	3795 511279	9862 978108	108406	246799	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 1135370	13319 1515893	34037 2919629	339356	742671	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 353801	+++++ 448828	8964 846790	108868	238174	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 125369	+++++ 244078	30906 563454	61305	96817	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 183798	1461 244212	4506 468658	54611	122832	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 64931	+++++ 71281	+++++ 166713	20257	45187	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 738065	8652 972573	22513 1781546	224771	488443	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 352276	3087 469343	8723 871104	101761	227566	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 345810	+++++ 472890	+++++ 857096	115506	241855	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 788654	+++++ 1034456	23283 1967388	240290	522027	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 291658	+++++ 377136	+++++ 720304	83934	191415	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 252334	1983 329330	5771 611451	75385	166032	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 129043	+++++ 163766	+++++ 310200	42406	87636	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 249624	+++++ 322946	8801 605735	80529	168555	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 513064	+++++ 689116	+++++ 1366917	137480	326370	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 954439	6972 1307179	20137 2557069	272710	630214	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 408300	3881 540929	10882 1005758	126586	274398	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 162303	+++++ 212402	3968 408869	49846	109109	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 382918	2702 502077	8350 922507	116943	255621	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1095 518279	5475 681458	15005 1290284	160055	344947	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 500877	+++++ 652016	+++++ 1281080	147690	344643	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 390229	3357 521710	10232 972636	115102	255416	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 155887	+++++ 204358	5903 375524	48197	105267	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 30210	+++++ 40626	+++++ 76579	9077	20203	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 228591	+++++ 296244	+++++ 566443	71283	157621	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 779260	8589 1046829	23323 2007382	237422	514583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 470239	3636 621219	10967 1127932	140111	309296	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 925922	10194 1254556	26641 2380113	277225	604891	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	2198 1042115	11289 1420365	29485 2751464	298835	617232	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 1297584	9122 1691549	27314 3096253	397008	869545	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 1018394	10842 1338956	29217 2465854	318852	679533	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 485358	5153 656161	13892 1273942	146306	318495	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 404986	2608 519200	8816 944712	127420	277244	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 136010	+++++ 173774	+++++ 353405	35569	84894	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	999 539858	5392 723709	14937 1354869	161292	354504	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 326458	3384 432078	9211 801211	101276	217758	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 361115	+++++ 473979	7633 900150	105491	239048	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 178755	+++++ 234971	+++++ 432013	54156	118704	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 695193	7611 938371	19767 1735761	203168	453860	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 883924	9183 1193456	25505 2283718	268528	582154	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 589949	4113 791795	11600 1530043	165612	385151	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 560828	+++++ 708853	11839 1321461	169908	380611	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 526136	3482 664251	12285 1132339	182697	377548	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 810625	7260 1042572	27132 1821449	263658	560433	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 650069	4840 882098	15598 1701047	187700	427074	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 387181	3966 515682	11392 950313	121644	260649	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	1978 1014440	9961 1370038	27070 2474129	297193	667197	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 563396	+++++ 699854	13829 1315481	167116	375331	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 1134174	11169 1531804	30572 2858902	336769	741256	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 848773	8104 1136272	22619 2142267	255019	563775	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 1283862	15026 1693094	38795 3070220	398678	866332	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 1894167	16854 2450876	49323 4337750	597512	1292272	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 621449	4961 779122	16890 1335114	212879	439794	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 1522130	13337 1913507	42216 3273594	504793	1057335	+++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 805328	5368 1033352	17668 1793176	244613	543889	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 1230957	8508 1570911	29128 2762243	396539	844426	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 1270129	11749 1685897	31914 2991235	376477	821521	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 2428632	16589 3155328	55872 5487717	752732	1635539	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 1116467	12840 1412525	33874 2413749	355686	760254	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 2845827	23916 3588747	73258 5927124	905094	1948260	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 859644	+++++ 1088090	28494 1872723	279641	589825	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 928444	+++++ 1145664	24452 1871486	316055	657595	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 2597015	22098 3290295	69184 5511156	816256	1764611	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 2096630	21384 2701106	59985 4640402	656643	1416619	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 2254095	18799 2910830	58478 5008279	688985	1503462	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 1218455	6837 1548400	22993 2742141	353912	808203	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 2260836	17812 2892807	55426 4946971	700422	1516591	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 94650

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/28/2015 15:53 Calibration End Date: 09/28/2015 21:32 Calibration ID: 32166

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 2262378	17147 2916426	56298 5053079	697286	1522005	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 3159151	24119 3988864	80927 6676840	1010019	2156571	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 2854909	19193 3643631	67179 6170522	888596	1944204	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 1797368	16908 2328382	51357 4004189	546704	1202432	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 1821720	15686 2383325	47706 4094892	535922	1207607	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 2025690	13429 2616076	42472 4812737	594103	1358918	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 971342	+++++ 1194546	+++++ 1852399	348392	712468	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 2240648	20239 2811052	70076 4641809	764712	1579128	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 1749247	15985 2274250	48869 3943211	520675	1157824	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 973793	+++++ 1225848	+++++ 1035901	288450	719204	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1543351	+++++ 2155386	31687 2962806	383594	1019558	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 1441068	14966 1906759	36660 2310866	407113	959633	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 2888214	+++++ 4060177	61713 5678107	687895	1999314	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 1374542	9992 1915329	31703 2140161	347245	925837	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Sep-2015 15:53:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-003
Misc. Info.: ic-01
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:49 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:07:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.335	4.329	0.006	83	801	0.0401	0.0961	
2 Dichlorodifluoromethane	85	4.436	4.431	0.005	27	1017	0.0401	0.0184	
3 Chlorodifluoromethane	51	4.506	4.501	0.005	93	948	0.0401	0.0424	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.806	4.806	0.000	82	1862	0.0401	0.0390	
5 Chloromethane	50	5.003	5.009	-0.006	6	273	0.0401	0.0252	
6 Butane	43	5.298	5.292	0.006	1	471	0.0401	0.0299	
7 Vinyl chloride	62	5.351	5.357	-0.006	86	365	0.0401	0.0287	
8 Butadiene	54		5.458				ND	ND	
10 Bromomethane	94	6.378	6.373	0.005	28	787	0.0401	0.0482	
9 BFB									
11 Chloroethane	64		6.678				ND	ND	
12 2-Methylbutane	43		6.769				ND	ND	
13 Vinyl bromide	106	7.175	7.175	0.000	43	369	0.0401	0.0184	
14 Trichlorofluoromethane	101	7.293	7.298	-0.005	18	2493	0.0401	0.0396	
16 Pentane	43	7.480	7.464	0.016	1	472	0.0401	0.0250	
17 Ethanol	45	7.973	7.951	0.022	17	199	0.0802	0.0373	
18 Ethyl ether	59		8.090				ND	ND	
19 Acrolein	56		8.582				ND	ND	
20 1,1,2-Trichloro-1,2,2-trif	101	8.588	8.598	-0.010	92	1522	0.0401	0.0374	
21 1,1-Dichloroethene	96	8.663	8.668	-0.005	1	289	0.0401	0.0160	
22 Acetone	43	8.962	8.946	0.016	95	4953	0.0401	0.2537	
23 Carbon disulfide	76	9.160	9.166	-0.006	66	1667	0.0401	0.0383	
24 Isopropyl alcohol	45	9.235	9.224	0.011	93	2744	0.0401	0.1762	
25 3-Chloro-1-propene	41		9.594				ND	ND	
26 Acetonitrile	41		9.759				ND	ND	
27 Methylene Chloride	49	9.920	9.931	-0.011	77	977	0.0401	0.0682	
28 2-Methyl-2-propanol	59		10.118				ND	ND	
S 30 1,2-Dichloroethene, Total	61				0		0.0802	0.0390	
29 Methyl tert-butyl ether	73	10.385	10.375	0.010	84	1121	0.0401	0.0234	
31 trans-1,2-Dichloroethene	61	10.423	10.433	-0.010	1	477	0.0401	0.0220	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53		10.615				ND	ND	
33 Hexane	57	10.845	10.856	-0.011	2	322	0.0401	0.0170	
34 1,1-Dichloroethane	63	11.423	11.428	-0.005	1	1095	0.0401	0.0390	M
35 Vinyl acetate	43	11.466	11.477	-0.011	65	179	0.0401	0.006544	
37 cis-1,2-Dichloroethene	96	12.616	12.621	-0.005	1	343	0.0401	0.0169	
38 2-Butanone (MEK)	72		12.659				ND	ND	
39 Ethyl acetate	88		12.670				ND	ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	69	174502	10.0	10.0	
41 Tetrahydrofuran	42		13.114				ND	ND	
42 Chloroform	83	13.210	13.221	-0.011	72	1700	0.0401	0.0395	
43 Cyclohexane	84	13.504	13.509	-0.005	39	265	0.0401	0.0111	
44 1,1,1-Trichloroethane	97	13.531	13.536	-0.005	86	1823	0.0401	0.0358	
45 Carbon tetrachloride	117	13.782	13.788	-0.006	87	2198	0.0401	0.0392	
46 Isooctane	57		14.189				ND	ND	
47 Benzene	78	14.253	14.253	0.000	1	2134	0.0401	0.0384	
48 1,2-Dichloroethane	62		14.419				ND	ND	
49 n-Heptane	43	14.526	14.537	-0.011	1	124	0.0401	0.006178	
A 51 GRO	1	14.922	(6.759-23.085)		0	3039042	0.0401	0	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	821340	10.0	10.0	
52 n-Butanol	56		15.296				ND	ND	
53 Trichloroethene	95	15.478	15.484	-0.006	79	999	0.0401	0.0350	M
54 1,2-Dichloropropane	63		16.019				ND	ND	
55 Methyl methacrylate	69		16.099				ND	ND	
56 1,4-Dioxane	88		16.195				ND	ND	
57 Dibromomethane	174	16.254	16.259	-0.005	39	926	0.0401	0.0245	
58 Dichlorobromomethane	83	16.500	16.505	-0.005	85	1674	0.0401	0.0345	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	3314519	0.0401	69.8	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	1	597	0.0401	0.0205	
61 4-Methyl-2-pentanone (MIBK	43	17.623	17.629	-0.006	1	326	0.0401	0.0112	
A 62 C8 Range	1	17.945	(17.889-17.989)		0	4504	NC	NC	
64 n-Octane	43	17.955	17.939	0.016	50	398	0.0401	0.0149	
65 Toluene	92	17.960	17.960	0.000	90	652	0.0401	0.0148	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	4504	0.0401	0.1020	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	78	485	0.0401	0.0146	
67 1,1,2-Trichloroethane	83		18.865				ND	ND	
68 Tetrachloroethene	166	18.988	18.993	-0.005	92	1978	0.0401	0.0372	M
69 2-Hexanone	43	19.271	19.266	0.005	1	356	0.0401	0.0121	
71 Chlorodibromomethane	129	19.608	19.619	-0.011	92	2232	0.0401	0.0369	
72 Ethylene Dibromide	107	19.924	19.913	0.011	59	579	0.0401	0.0128	
S 73 Xylenes, Total	106				0		0.1203	0.0829	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	763036	10.0	10.0	
75 Chlorobenzene	112	20.780	20.785	-0.005	22	2994	0.0401	0.0421	
76 Ethylbenzene	91	20.887	20.897	-0.010	92	3568	0.0401	0.0361	
77 n-Nonane	57	20.930	20.940	-0.010	42	696	0.0401	0.0215	
78 m-Xylene & p-Xylene	106	21.101	21.106	-0.005	0	2284	0.0802	0.0573	
79 o-Xylene	106	21.802	21.802	0.000	93	1006	0.0401	0.0256	
80 Styrene	104	21.839	21.839	0.000	78	1298	0.0401	0.0211	
$ 83 4-Bromofluorobenzene	95		22.197				ND	ND	
81 Bromoform	173	22.203	22.203	0.000	94	2327	0.0401	0.0355	
82 Isopropylbenzene	105	22.347	22.353	-0.006	92	3067	0.0401	0.0255	
84 1,1,2,2-Tetrachloroethane	83	22.893	22.898	-0.005	94	2460	0.0401	0.0404	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	4606	0.0401	0.0318	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	87	2448	0.0401	0.0509	
87 n-Decane	57	23.075	23.075	0.000	90	1204	0.0401	0.0242	
88 4-Ethyltoluene	105	23.139	23.139	0.000	96	3839	0.0401	0.0288	
89 2-Chlorotoluene	91	23.176	23.176	0.000	91	3961	0.0401	0.0354	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	93	2982	0.0401	0.0259	
91 Alpha Methyl Styrene	118	23.594	23.588	0.006	91	1368	0.0401	0.0240	
92 tert-Butylbenzene	119	23.722	23.722	0.000	92	3275	0.0401	0.0288	
93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	91	2824	0.0401	0.0248	
94 sec-Butylbenzene	105	24.064	24.059	0.005	97	4386	0.0401	0.0275	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	96	3318	0.0401	0.0236	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	92	3587	0.0401	0.0380	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	95	3120	0.0401	0.0335	
98 Benzyl chloride	91	24.706	24.706	0.000	93	2625	0.0401	0.0266	
99 Undecane	57	24.888	24.888	0.000	88	1077	0.0401	0.0204	
100 n-Butylbenzene	91	24.920	24.920	0.000	91	3149	0.0401	0.0262	
101 1,2-Dichlorobenzene	146	25.118	25.113	0.005	95	3516	0.0401	0.0386	
102 Dodecane	57	26.771	26.777	-0.006	86	1957	0.0401	0.0410	
103 1,2,4-Trichlorobenzene	180	28.146	28.130	0.016	91	3411	0.0401	0.0448	
104 Hexachlorobutadiene	225	28.339	28.344	-0.005	96	6138	0.0401	0.0851	
105 Naphthalene	128	28.772	28.767	0.005	93	2614	0.0401	0.0181	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	93	4131	0.0401	0.0640	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL1w_00146	Amount Added: 40.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

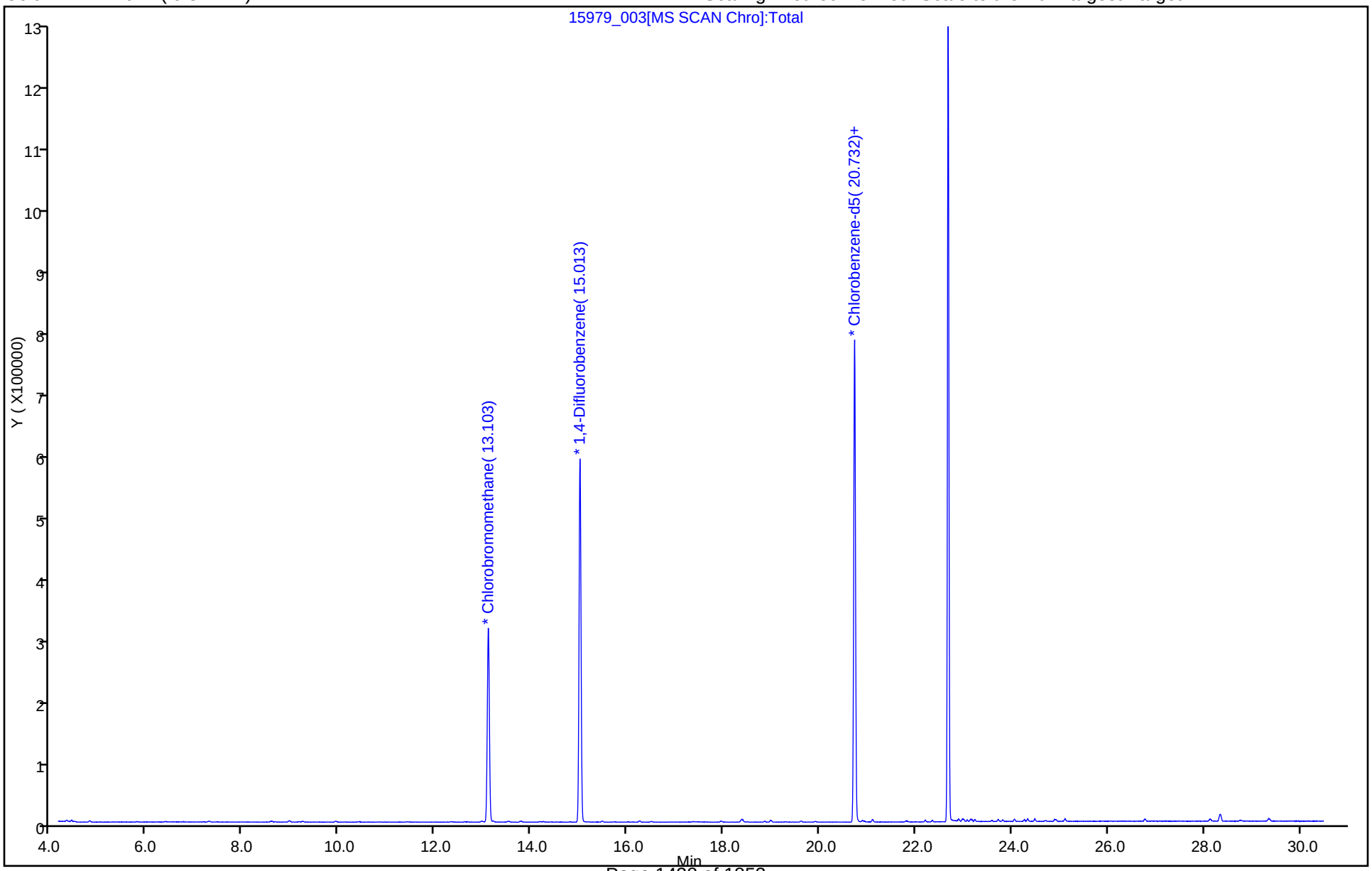
Report Date: 29-Sep-2015 12:09:49 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d

Injection Date:	28-Sep-2015 15:53:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

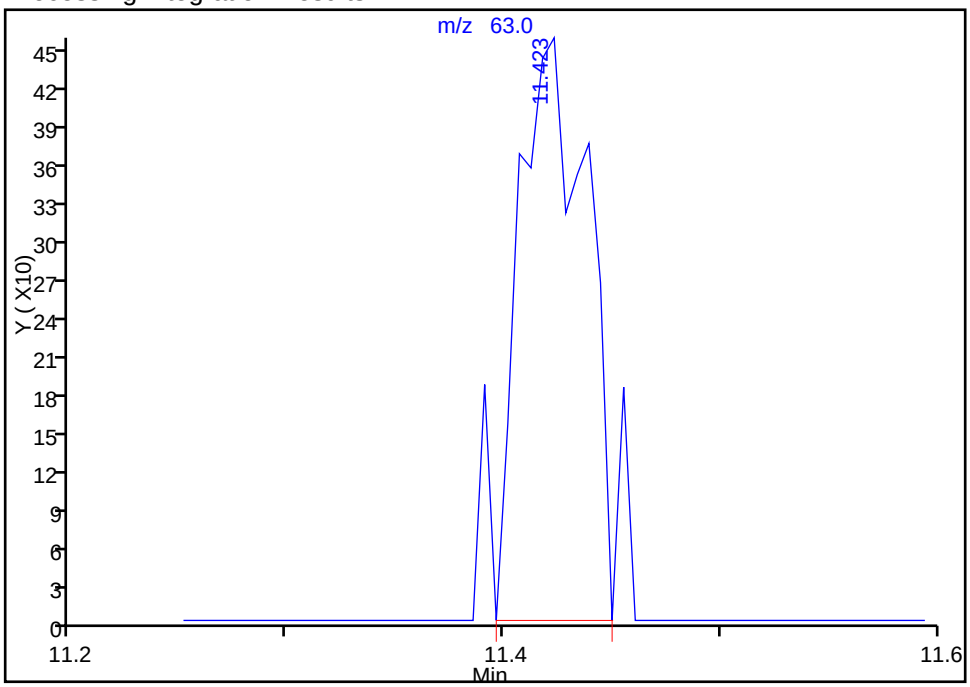
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d				
Injection Date:	28-Sep-2015 15:53:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

34 1,1-Dichloroethane, CAS: 75-34-3

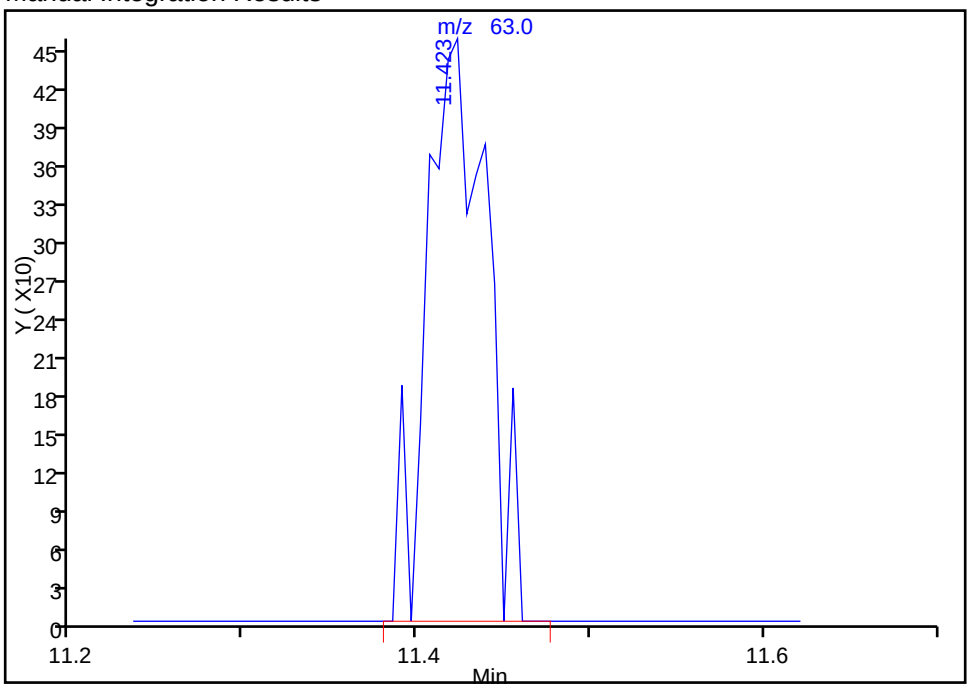
Processing Integration Results

RT: 11.42
Area: 978
Amount: 0.035323
Amount Units: ppb v/v



Manual Integration Results

RT: 11.42
Area: 1095
Amount: 0.039034
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:07:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

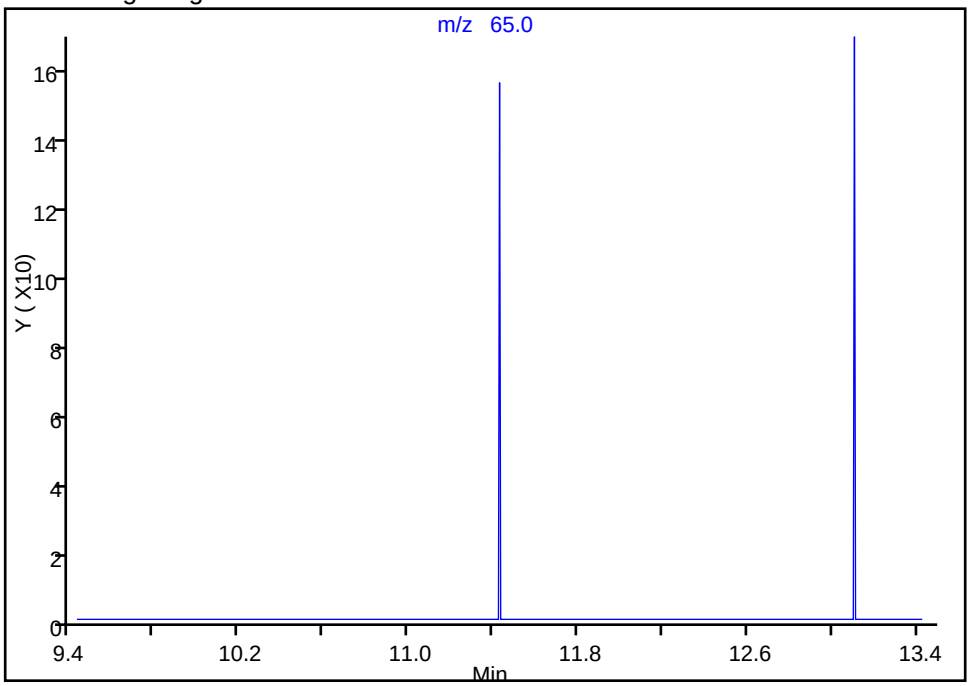
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d				
Injection Date:	28-Sep-2015 15:53:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

34 1,1-Dichloroethane, CAS: 75-34-3

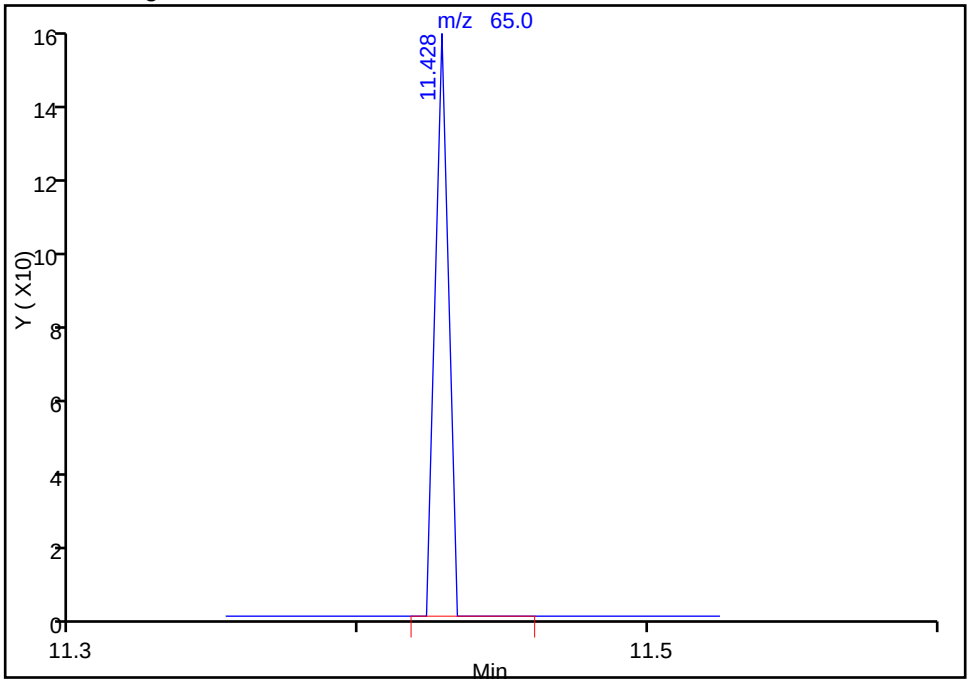
Processing Integration Results

RT: 11.43
Area: 0
Amount: 0.035323
Amount Units: ppb v/v



Manual Integration Results

RT: 11.43
Area: 49
Amount: 0.039034
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:07:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

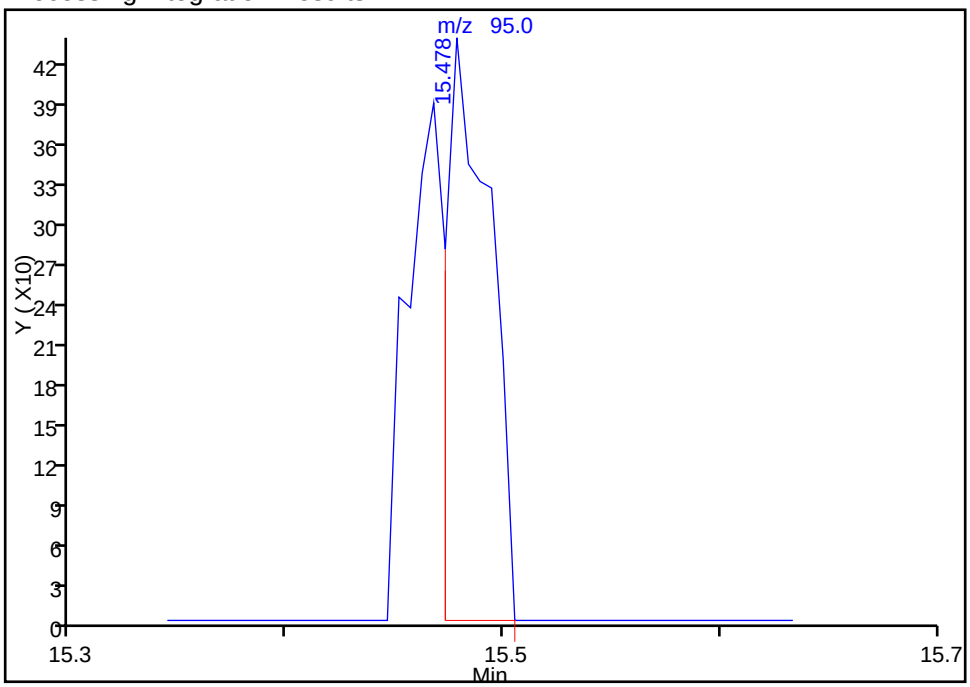
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d				
Injection Date:	28-Sep-2015 15:53:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

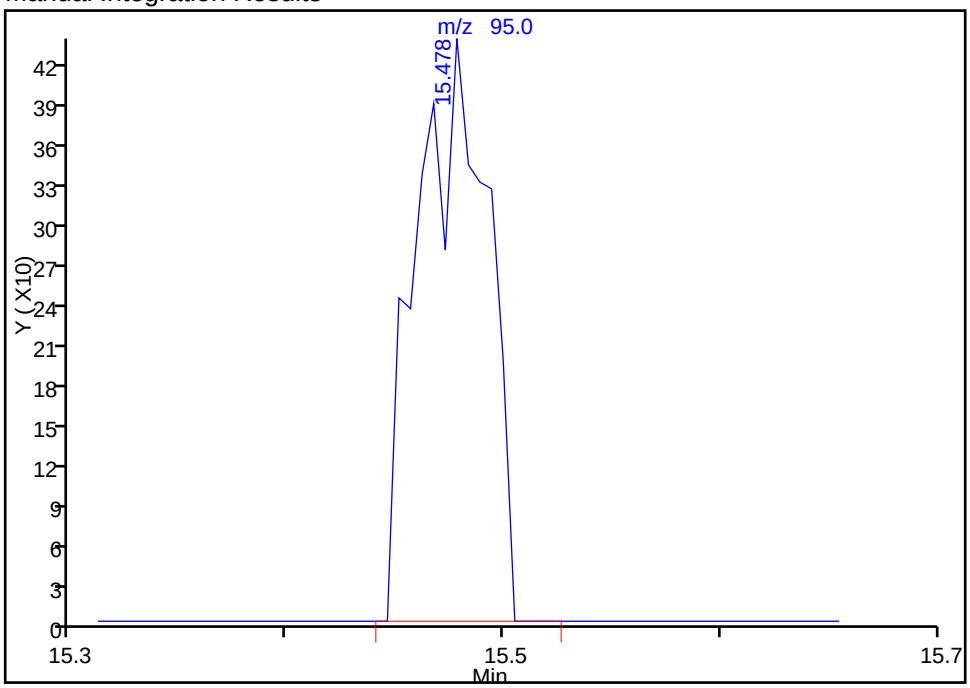
Processing Integration Results

RT: 15.48
Area: 613
Amount: 0.022431
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 999
Amount: 0.035014
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:07:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

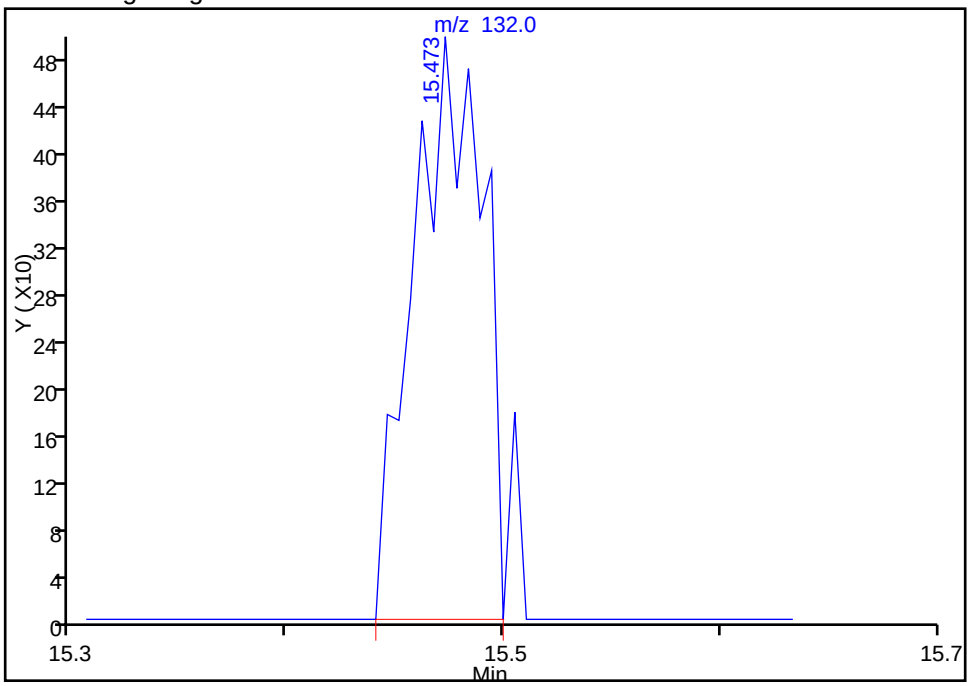
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d				
Injection Date:	28-Sep-2015 15:53:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

53 Trichloroethene, CAS: 79-01-6

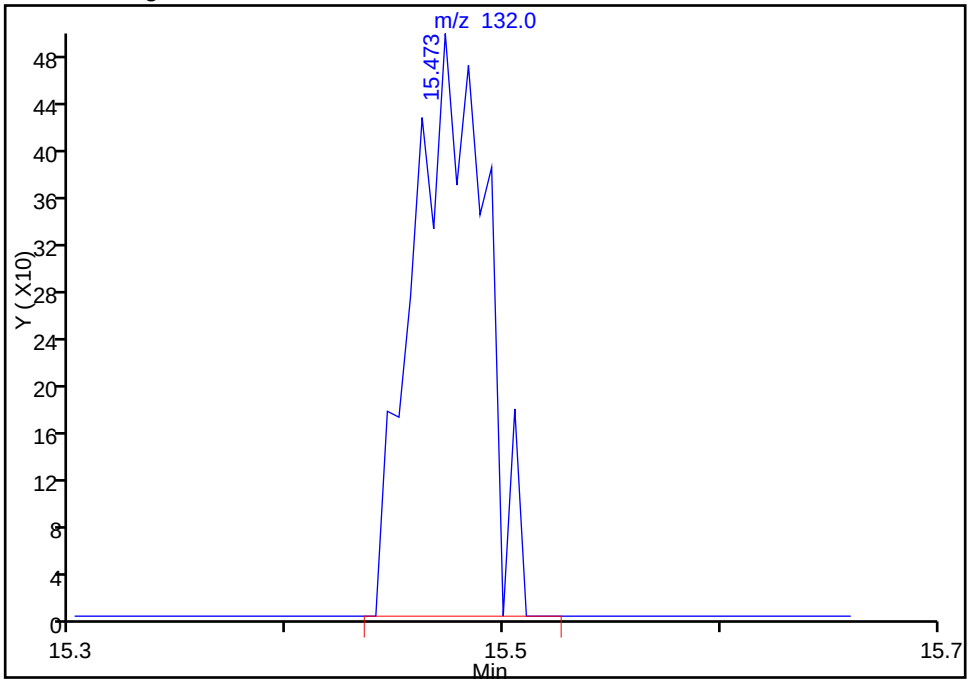
Processing Integration Results

RT: 15.47
Area: 1090
Amount: 0.022431
Amount Units: ppb v/v



Manual Integration Results

RT: 15.47
Area: 1147
Amount: 0.035014
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:07:34
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

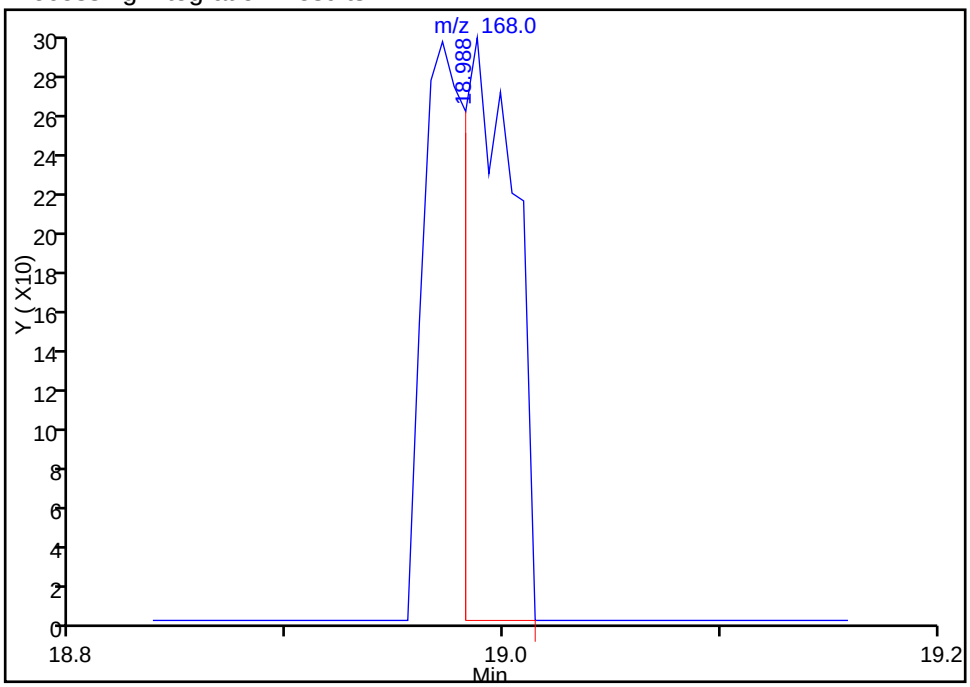
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_003.d
Injection Date: 28-Sep-2015 15:53:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

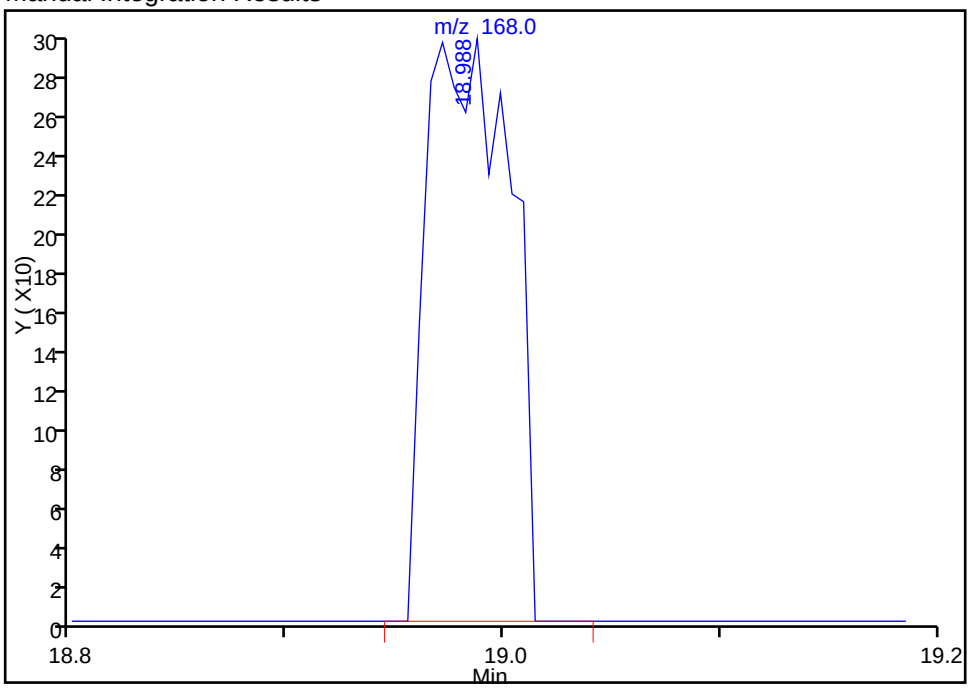
Processing Integration Results

RT: 18.99
Area: 482
Amount: 0.037242
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 804
Amount: 0.037242
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:07:34
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Sep-2015 16:42:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-004
Misc. Info.: ic-02
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:50 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:11:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	90	2499	0.2004	0.2822	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	98	12158	0.2004	0.2066	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	4965	0.2004	0.2093	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.800	4.806	-0.006	85	10552	0.2004	0.2081	
5 Chloromethane	50	5.014	5.009	0.005	95	2465	0.2004	0.2145	M
6 Butane	43	5.287	5.292	-0.005	91	3376	0.2004	0.2016	M
7 Vinyl chloride	62	5.351	5.357	-0.006	95	2706	0.2004	0.2004	
8 Butadiene	54	5.463	5.458	0.005	91	1660	0.2004	0.1790	
10 Bromomethane	94	6.384	6.373	0.011	93	3523	0.2004	0.2030	
9 BFB									
11 Chloroethane	64	6.667	6.678	-0.011	43	1790	0.2004	0.1998	
12 2-Methylbutane	43	6.769	6.769	0.000	89	2481	0.2004	0.1824	
13 Vinyl bromide	106	7.165	7.175	-0.010	96	3795	0.2004	0.1778	
14 Trichlorofluoromethane	101	7.288	7.298	-0.010	97	13319	0.2004	0.1994	
16 Pentane	43	7.448	7.464	-0.016	96	3596	0.2004	0.1796	M
17 Ethanol	45	7.956	7.951	0.005	94	1966	0.4009	0.3472	M
18 Ethyl ether	59	8.106	8.090	0.016	93	1461	0.2004	0.1459	
19 Acrolein	56		8.582				ND	ND	
20 1,1,2-Trichloro-1,2,2-trif	101	8.593	8.598	-0.005	88	8652	0.2004	0.2000	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	49	3087	0.2004	0.1610	
22 Acetone	43	8.951	8.946	0.005	96	9626	0.2004	0.4644	M
23 Carbon disulfide	76	9.165	9.166	-0.001	98	8950	0.2004	0.1939	
24 Isopropyl alcohol	45	9.235	9.224	0.011	91	4502	0.2004	0.2723	
25 3-Chloro-1-propene	41	9.588	9.594	-0.006	86	1983	0.2004	0.1475	M
26 Acetonitrile	41	9.759	9.759	0.000	94	1223	0.2004	0.1631	
27 Methylene Chloride	49	9.930	9.931	-0.001	79	3764	0.2004	0.2475	
28 2-Methyl-2-propanol	59	10.128	10.118	0.010	93	3471	0.2004	0.1188	M
S 30 1,2-Dichloroethene, Total	61				0		0.4009	0.3248	
29 Methyl tert-butyl ether	73	10.391	10.375	0.016	96	6972	0.2004	0.1371	
31 trans-1,2-Dichloroethene	61	10.428	10.433	-0.005	87	3881	0.2004	0.1687	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.615	10.615	0.000	91	1234	0.2004	0.1333	
33 Hexane	57	10.856	10.856	0.000	86	2702	0.2004	0.1339	
34 1,1-Dichloroethane	63	11.412	11.428	-0.016	97	5475	0.2004	0.1838	
35 Vinyl acetate	43	11.471	11.477	-0.006	79	3366	0.2004	0.1159	M
37 cis-1,2-Dichloroethene	96	12.616	12.621	-0.005	85	3357	0.2004	0.1561	M
38 2-Butanone (MEK)	72	12.670	12.659	0.011	96	1232	0.2004	0.1285	
39 Ethyl acetate	88		12.670				ND	ND	
* 40 Chlorobromomethane	128	13.103	13.108	-0.005	75	185313	10.0	10.0	
41 Tetrahydrofuran	42	13.130	13.114	0.016	32	1742	0.2004	0.1291	
42 Chloroform	83	13.215	13.221	-0.006	96	8589	0.2004	0.1880	
43 Cyclohexane	84	13.515	13.509	0.006	61	3636	0.2004	0.1433	M
44 1,1,1-Trichloroethane	97	13.525	13.536	-0.011	94	10194	0.2004	0.1874	
45 Carbon tetrachloride	117	13.777	13.788	-0.011	96	11289	0.2004	0.1886	
46 Isooctane	57	14.183	14.189	-0.006	97	9122	0.2004	0.1327	M
47 Benzene	78	14.253	14.253	0.000	93	10842	0.2004	0.1828	M
48 1,2-Dichloroethane	62	14.419	14.419	0.000	97	5153	0.2004	0.1810	M
49 n-Heptane	43	14.526	14.537	-0.011	66	2608	0.2004	0.1218	M
A 51 GRO	1	14.922	(6.759-23.085)		0	4263736	0.2004	0	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	876348	10.0	10.0	
52 n-Butanol	56	15.296	15.296	0.000	79	1015	0.2004	0.1325	
53 Trichloroethene	95	15.478	15.484	-0.006	93	5392	0.2004	0.1771	
54 1,2-Dichloropropane	63	16.018	16.019	0.000	85	3384	0.2004	0.1787	M
55 Methyl methacrylate	69	16.104	16.099	0.005	87	2114	0.2004	0.1047	
56 1,4-Dioxane	88	16.195	16.195	0.000	12	1461	0.2004	0.1405	
57 Dibromomethane	174	16.254	16.259	-0.005	86	7611	0.2004	0.1884	
58 Dichlorobromomethane	83	16.500	16.505	-0.005	97	9183	0.2004	0.1775	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	5322121	0.2004	105.0	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	87	4113	0.2004	0.1327	M
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.629	0.000	89	3496	0.2004	0.1121	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	43164	NC	NC	
64 n-Octane	43	17.934	17.939	-0.005	78	3482	0.2004	0.1224	M
65 Toluene	92	17.960	17.960	0.000	93	7260	0.2004	0.1535	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	43164	0.2004	0.9126	
66 trans-1,3-Dichloropropene	75	18.485	18.490	-0.005	94	4840	0.2004	0.1362	M
67 1,1,2-Trichloroethane	83	18.859	18.865	-0.006	93	3966	0.2004	0.1751	M
68 Tetrachloroethene	166	18.988	18.993	-0.005	97	9961	0.2004	0.1750	M
69 2-Hexanone	43	19.266	19.266	0.000	91	3114	0.2004	0.0985	
71 Chlorodibromomethane	129	19.619	19.619	0.000	96	11169	0.2004	0.1725	
72 Ethylene Dibromide	107	19.913	19.913	0.000	97	8104	0.2004	0.1677	
S 73 Xylenes, Total	106				0		0.6013	0.4396	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	817573	10.0	10.0	
75 Chlorobenzene	112	20.780	20.785	-0.005	95	15026	0.2004	0.1970	
76 Ethylbenzene	91	20.897	20.897	0.000	96	16854	0.2004	0.1593	
77 n-Nonane	57	20.940	20.940	0.000	75	4961	0.2004	0.1430	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	13337	0.4009	0.3121	
79 o-Xylene	106	21.807	21.802	0.005	97	5368	0.2004	0.1274	
80 Styrene	104	21.839	21.839	0.000	94	8508	0.2004	0.1288	
$ 83 4-Bromofluorobenzene	95		22.197				ND	ND	
81 Bromoform	173	22.203	22.203	0.000	97	11749	0.2004	0.1673	
82 Isopropylbenzene	105	22.347	22.353	-0.006	96	16589	0.2004	0.1286	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	12840	0.2004	0.1967	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	23916	0.2004	0.1539	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	96	10704	0.2004	0.2075	
87 n-Decane	57	23.075	23.075	0.000	94	7153	0.2004	0.1340	
88 4-Ethyltoluene	105	23.144	23.139	0.005	97	22098	0.2004	0.1549	
89 2-Chlorotoluene	91	23.171	23.176	-0.005	96	21384	0.2004	0.1785	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	93	18799	0.2004	0.1524	
91 Alpha Methyl Styrene	118	23.594	23.588	0.006	89	6837	0.2004	0.1120	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	17812	0.2004	0.1461	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	97	17147	0.2004	0.1403	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	24119	0.2004	0.1410	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	19193	0.2004	0.1272	
96 1,3-Dichlorobenzene	146	24.332	24.337	-0.005	95	16908	0.2004	0.1670	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	96	15686	0.2004	0.1570	
98 Benzyl chloride	91	24.701	24.706	-0.005	98	13429	0.2004	0.1270	
99 Undecane	57	24.894	24.888	0.006	89	6937	0.2004	0.1226	
100 n-Butylbenzene	91	24.920	24.920	0.000	98	20239	0.2004	0.1570	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	98	15985	0.2004	0.1638	
102 Dodecane	57	26.777	26.777	0.000	89	5529	0.2004	0.1081	
103 1,2,4-Trichlorobenzene	180	28.130	28.130	0.000	93	9022	0.2004	0.1106	
104 Hexachlorobutadiene	225	28.350	28.344	0.006	97	14966	0.2004	0.1937	
105 Naphthalene	128	28.772	28.767	0.005	98	11780	0.2004	0.0762	M
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	95	9992	0.2004	0.1445	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL1w_00146	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

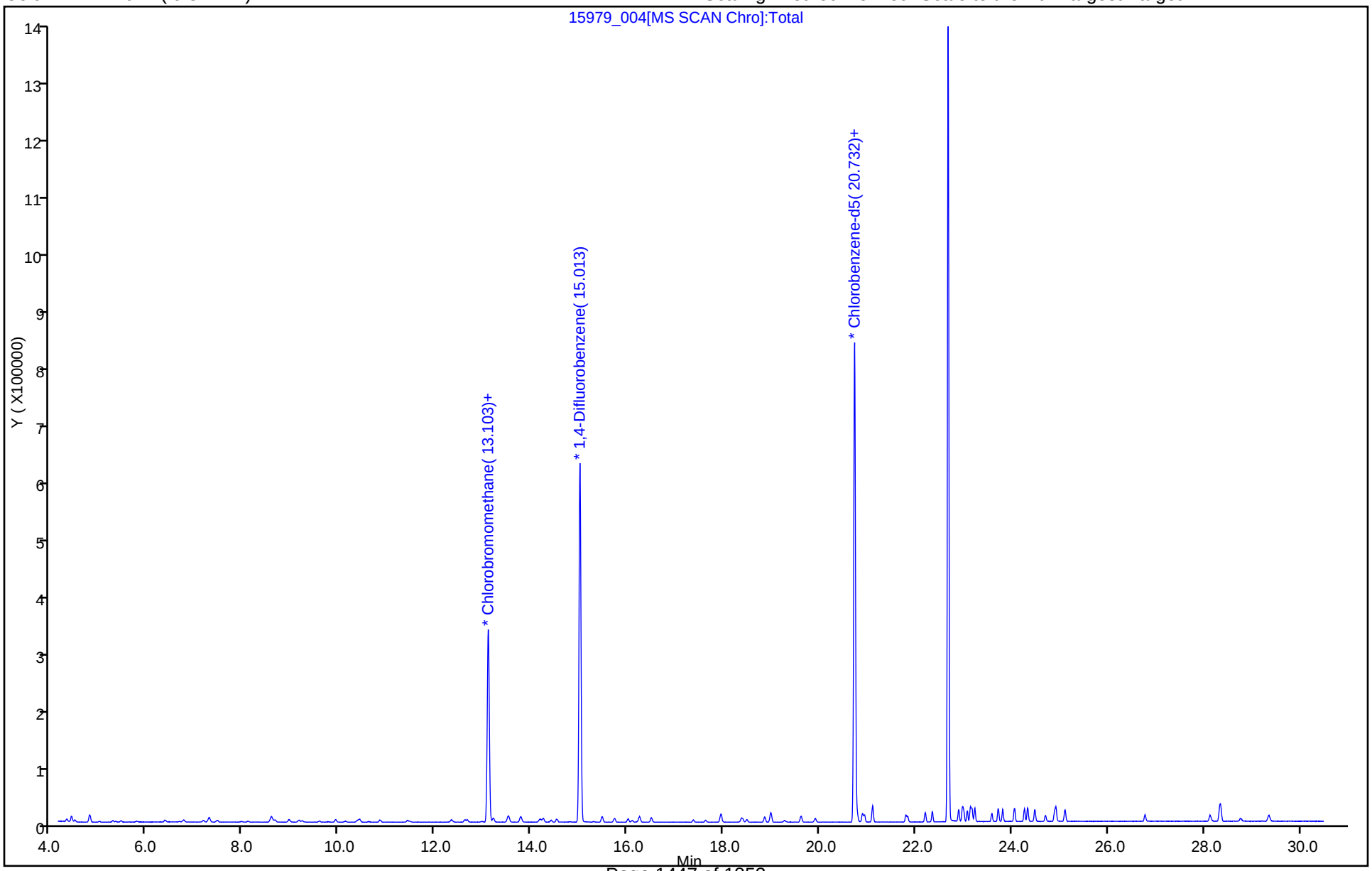
Report Date: 29-Sep-2015 12:09:51 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d

Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

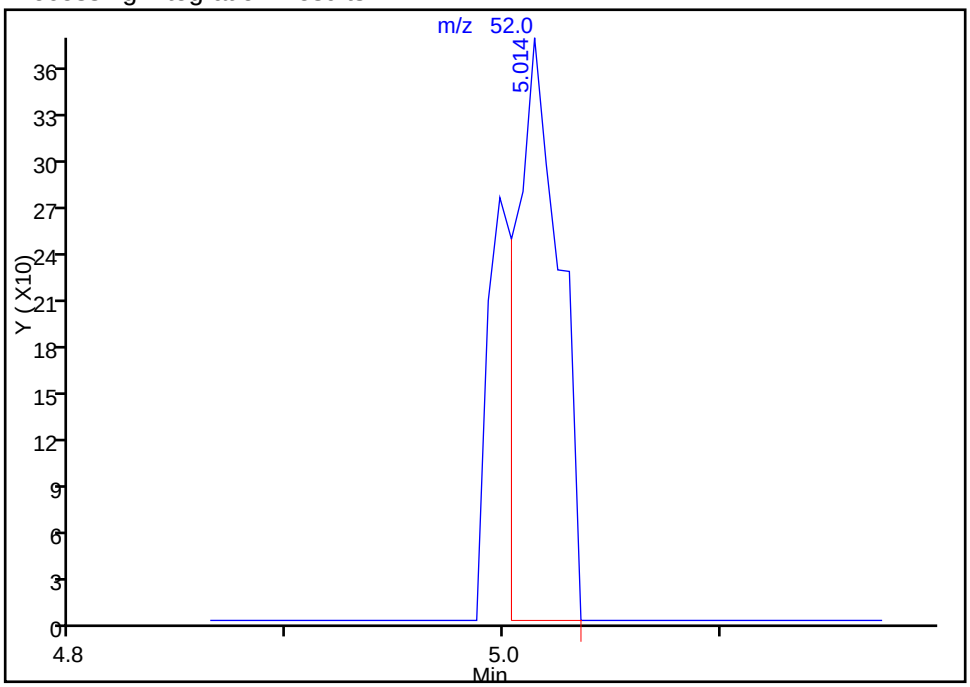
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

5 Chloromethane, CAS: 74-87-3

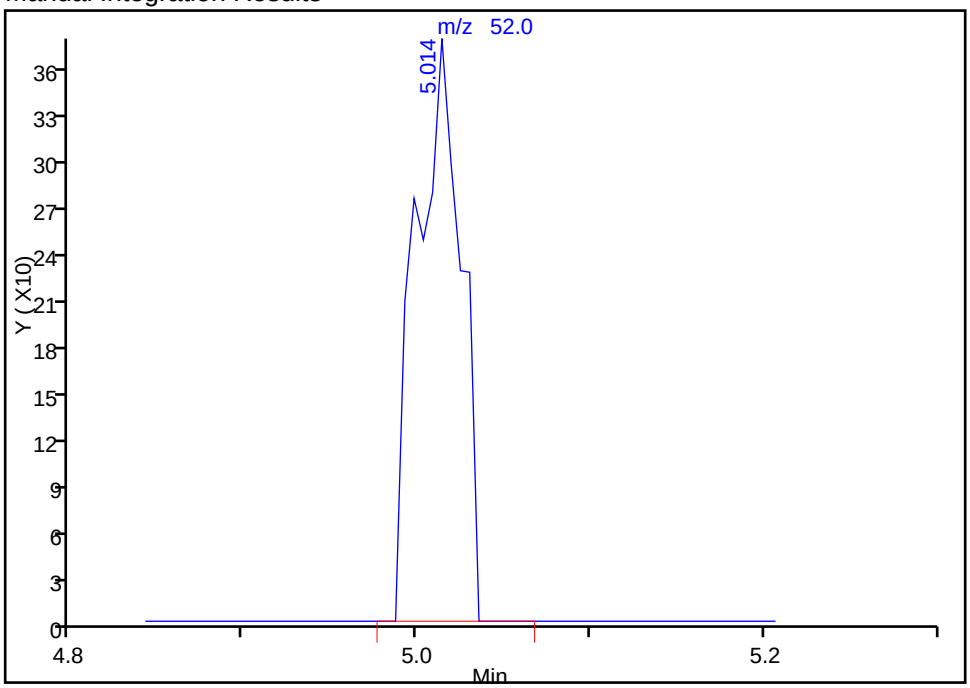
Processing Integration Results

RT: 5.01
Area: 532
Amount: 0.214453
Amount Units: ppb v/v



Manual Integration Results

RT: 5.01
Area: 687
Amount: 0.214453
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

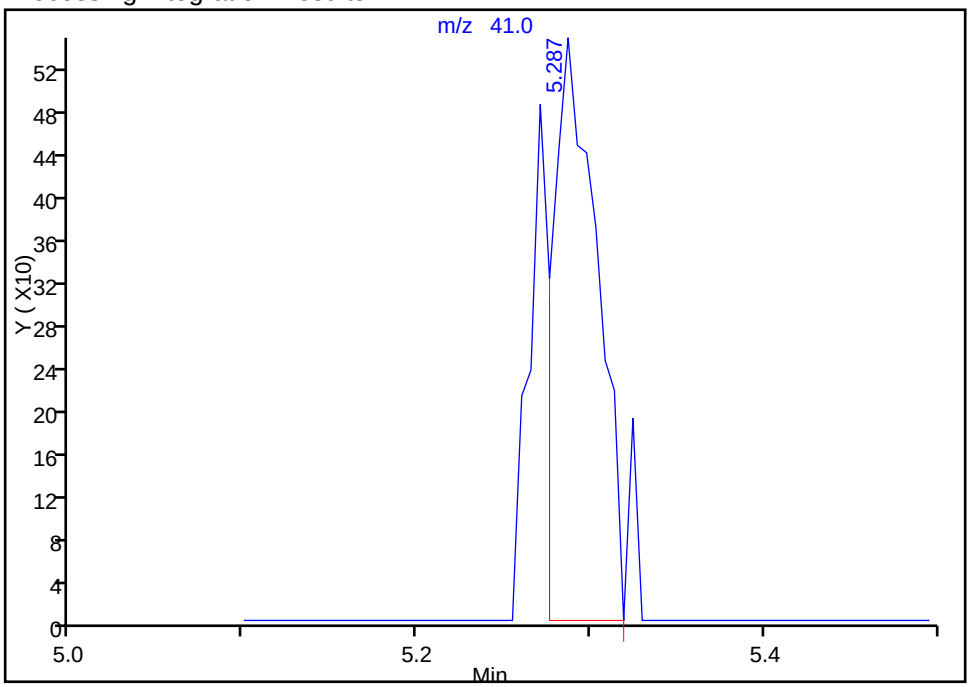
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

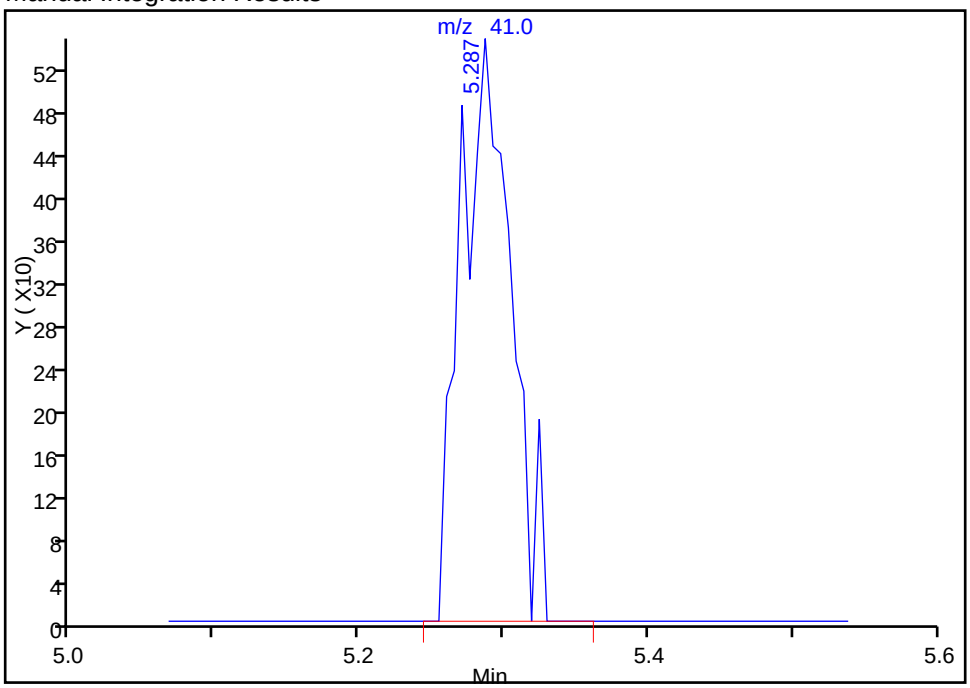
Processing Integration Results

RT: 5.29
Area: 962
Amount: 0.201597
Amount Units: ppb v/v



Manual Integration Results

RT: 5.29
Area: 1318
Amount: 0.201597
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

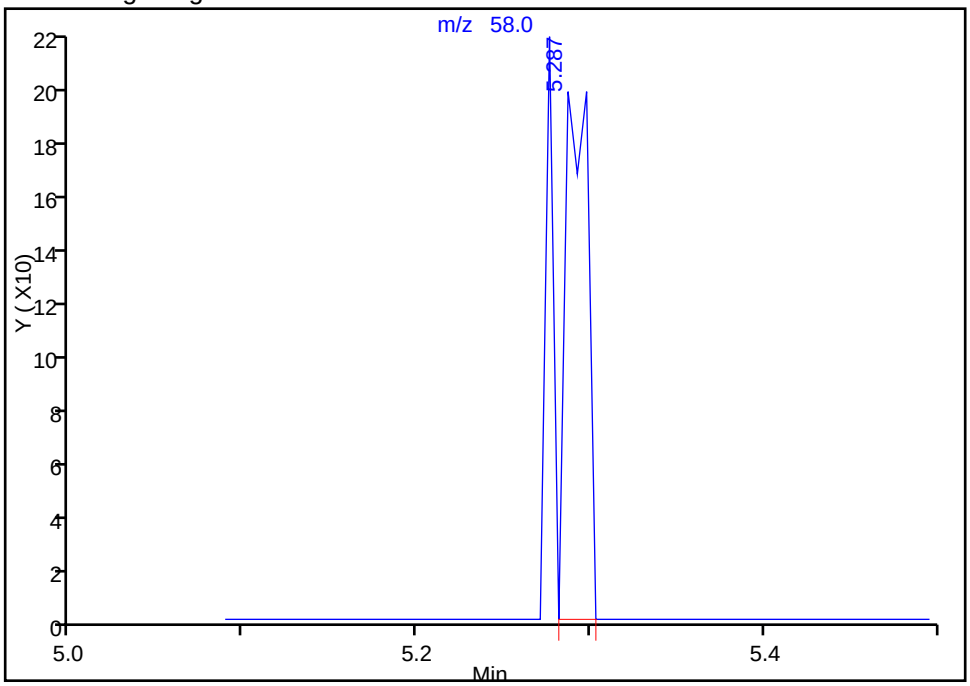
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

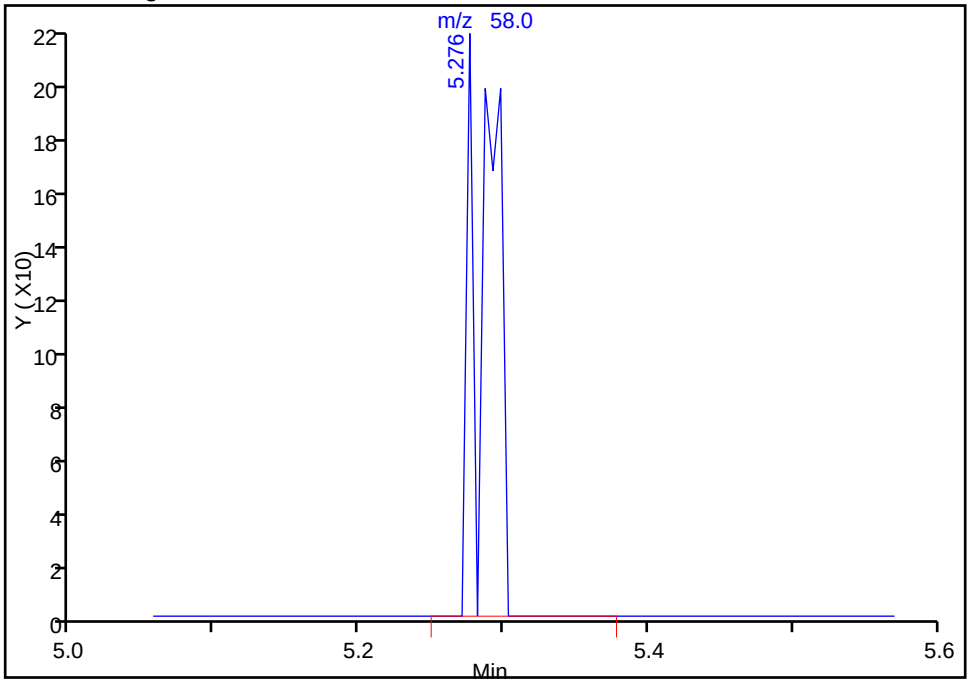
Processing Integration Results

RT: 5.29
Area: 175
Amount: 0.201597
Amount Units: ppb v/v



Manual Integration Results

RT: 5.28
Area: 243
Amount: 0.201597
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

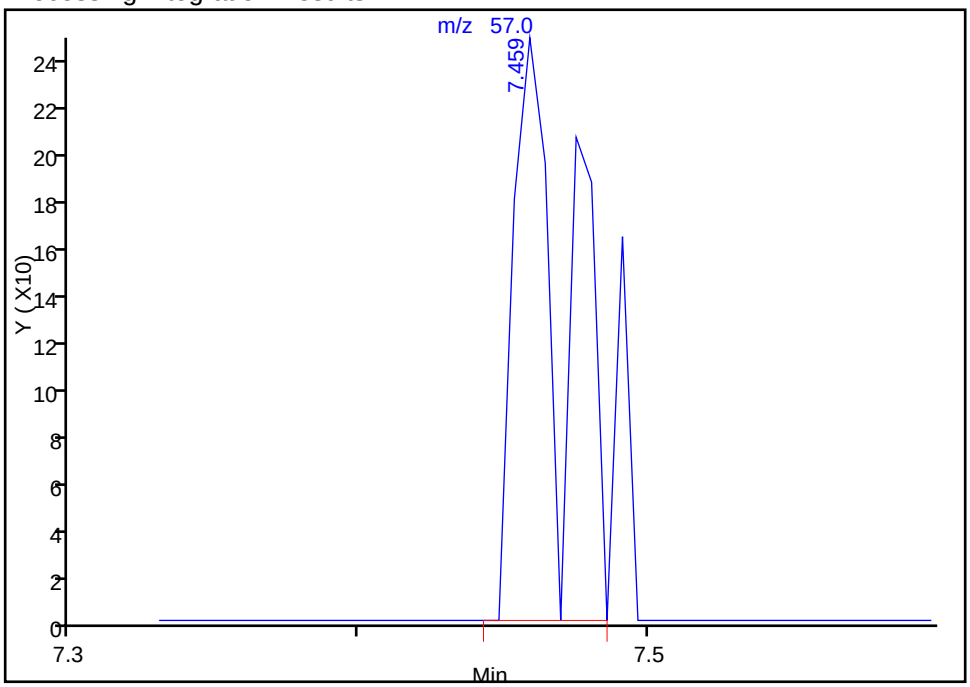
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

16 Pentane, CAS: 109-66-0

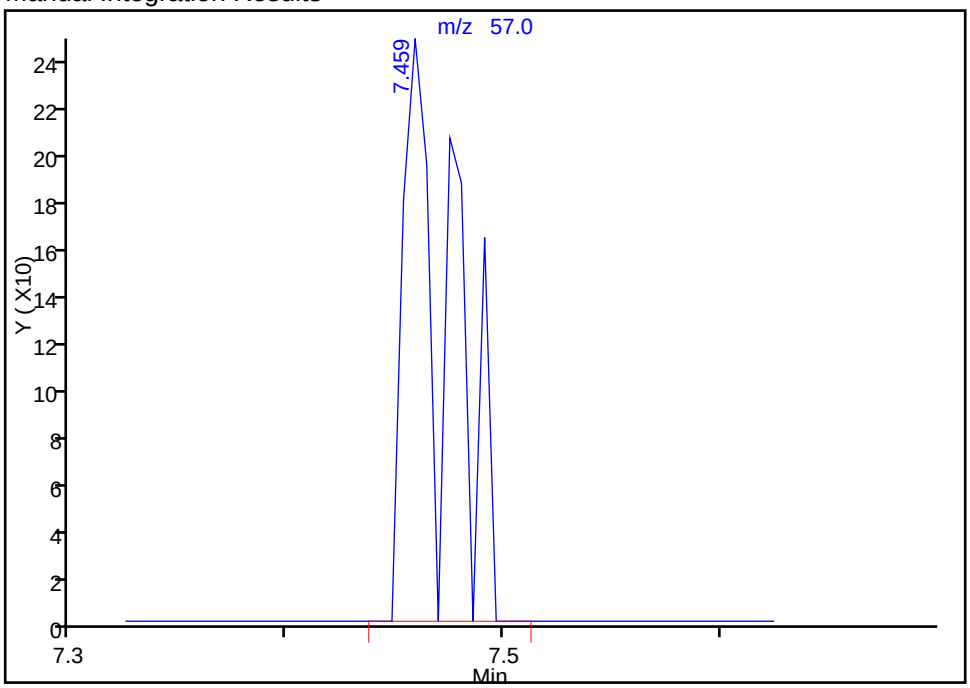
Processing Integration Results

RT: 7.46
Area: 323
Amount: 0.179602
Amount Units: ppb v/v



Manual Integration Results

RT: 7.46
Area: 375
Amount: 0.179602
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

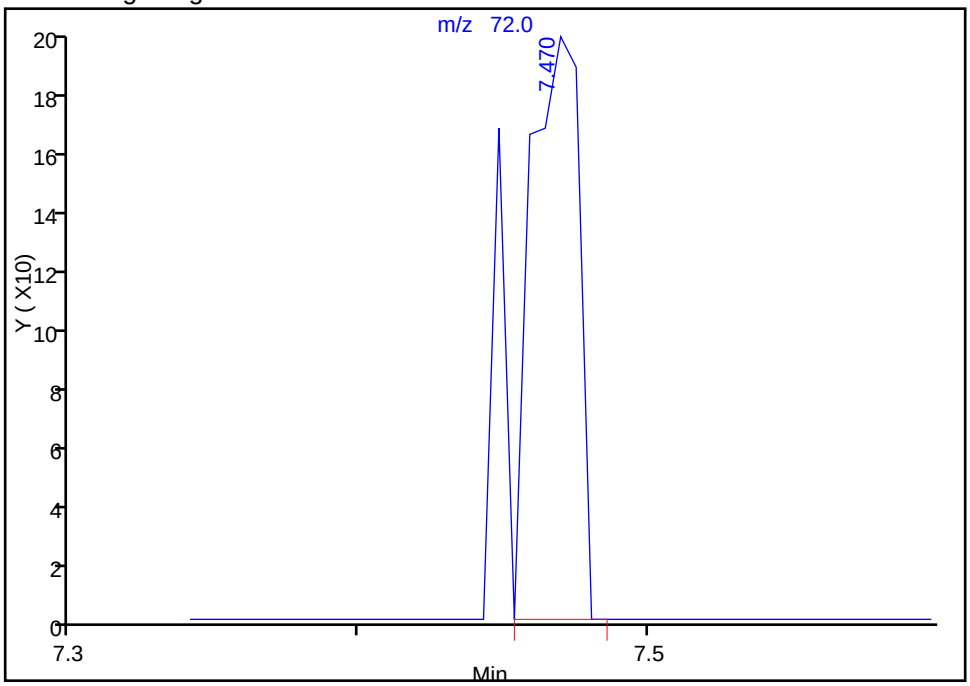
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

16 Pentane, CAS: 109-66-0

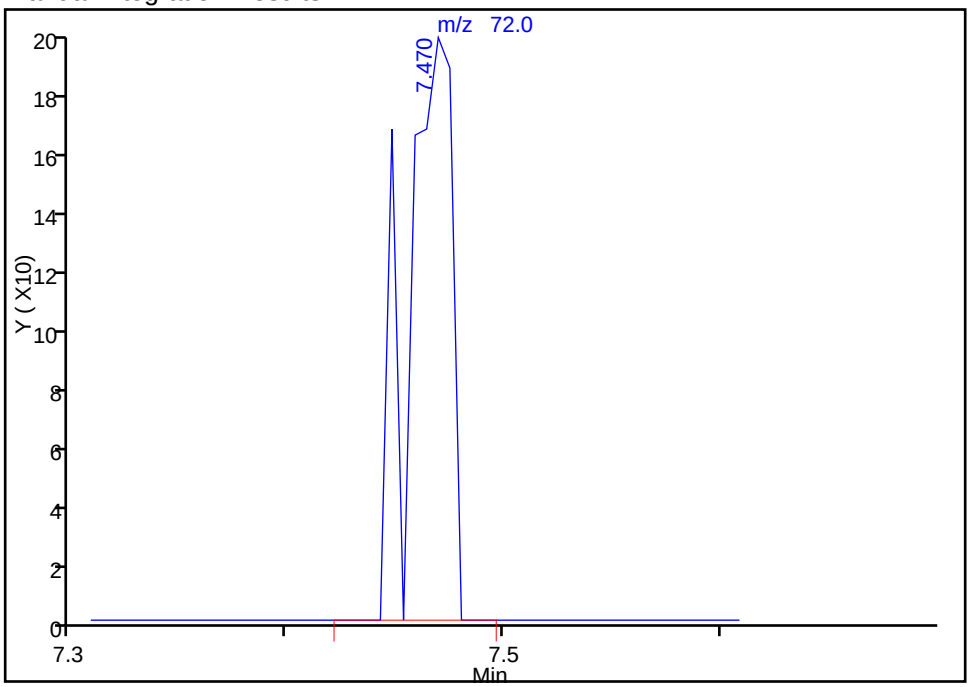
Processing Integration Results

RT: 7.47
Area: 222
Amount: 0.179602
Amount Units: ppb v/v



Manual Integration Results

RT: 7.47
Area: 274
Amount: 0.179602
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

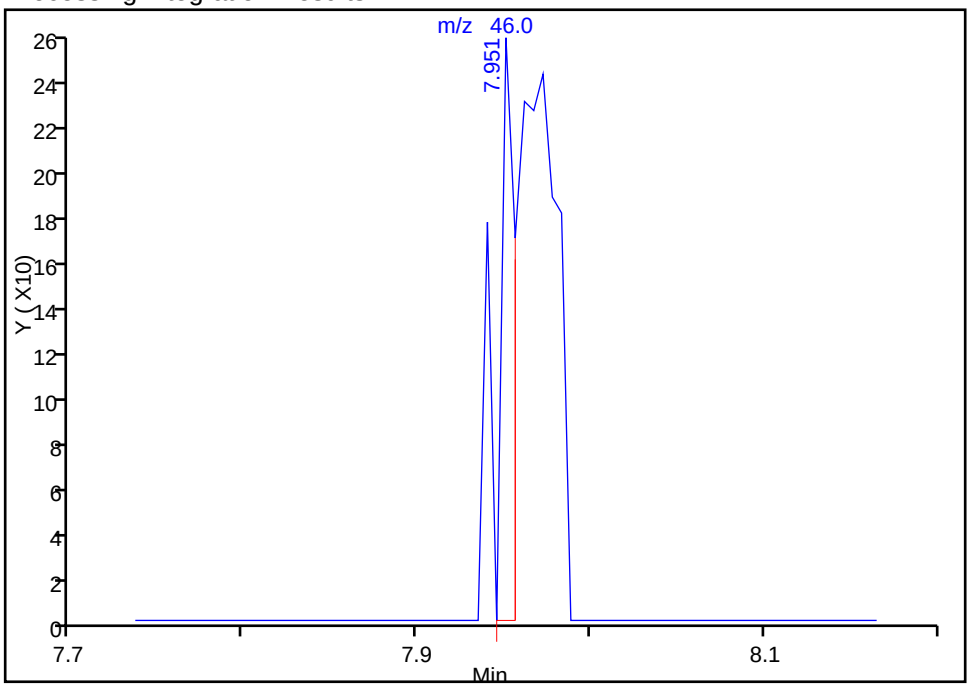
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5

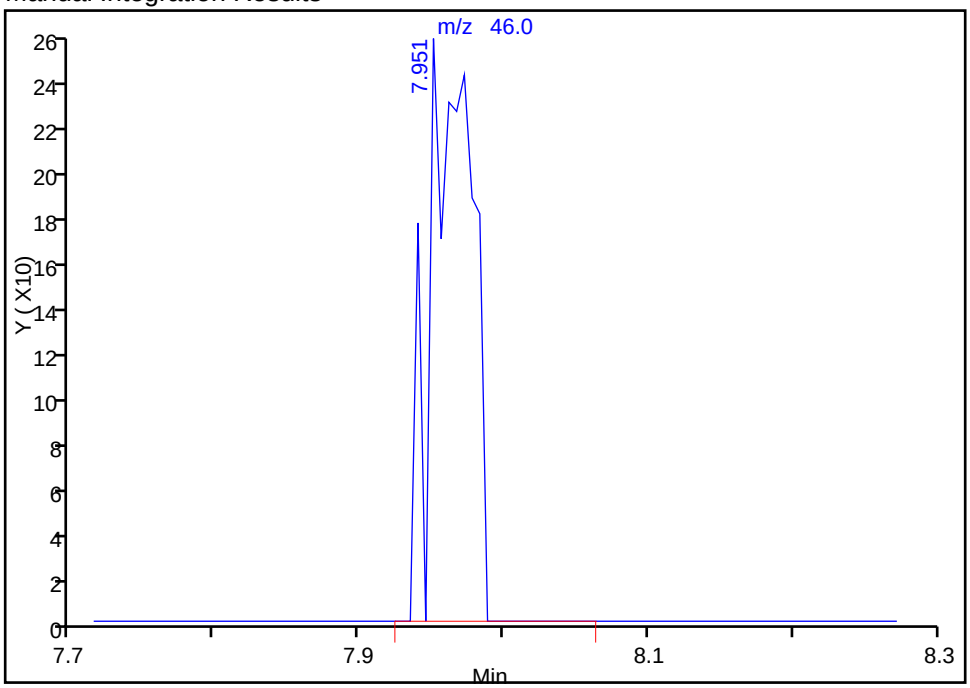
Processing Integration Results

RT: 7.95
Area: 136
Amount: 0.347172
Amount Units: ppb v/v



Manual Integration Results

RT: 7.95
Area: 532
Amount: 0.347172
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

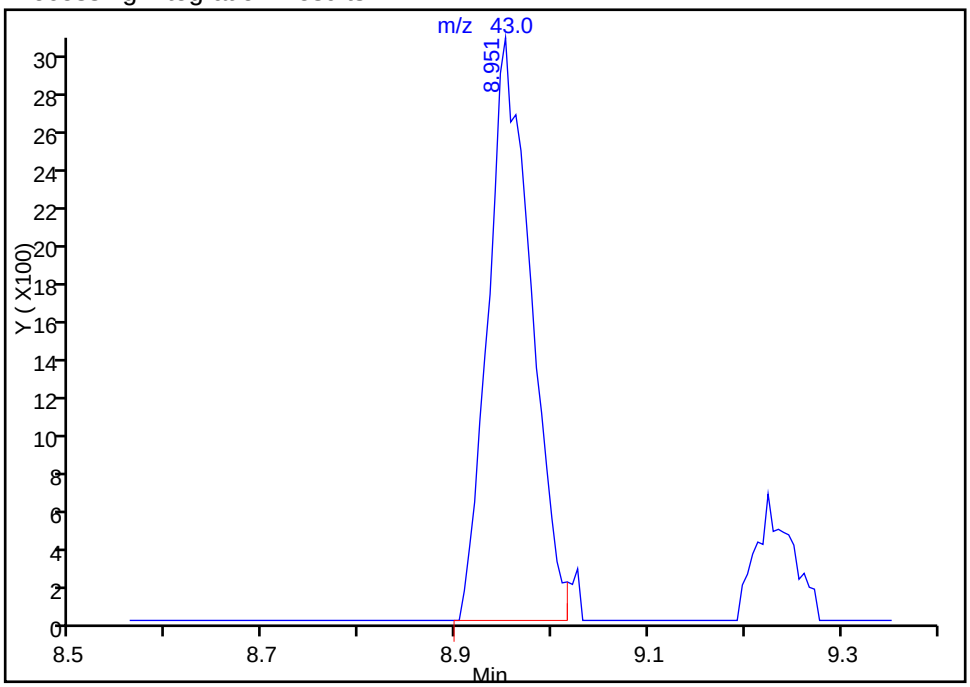
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

22 Acetone, CAS: 67-64-1

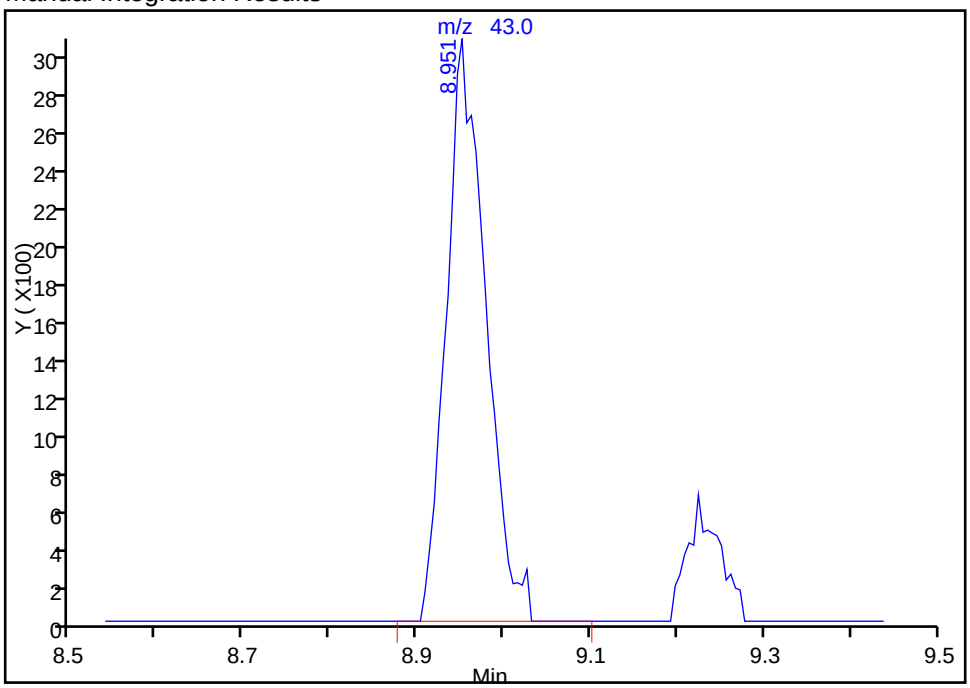
Processing Integration Results

RT: 8.95
Area: 9479
Amount: 0.457293
Amount Units: ppb v/v



Manual Integration Results

RT: 8.95
Area: 9626
Amount: 0.464385
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

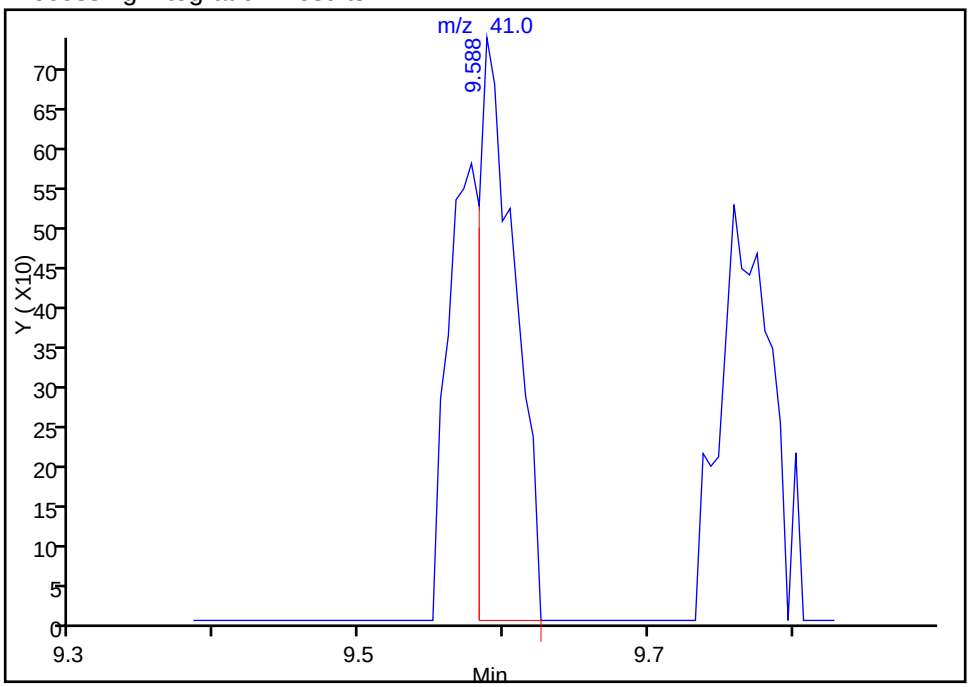
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

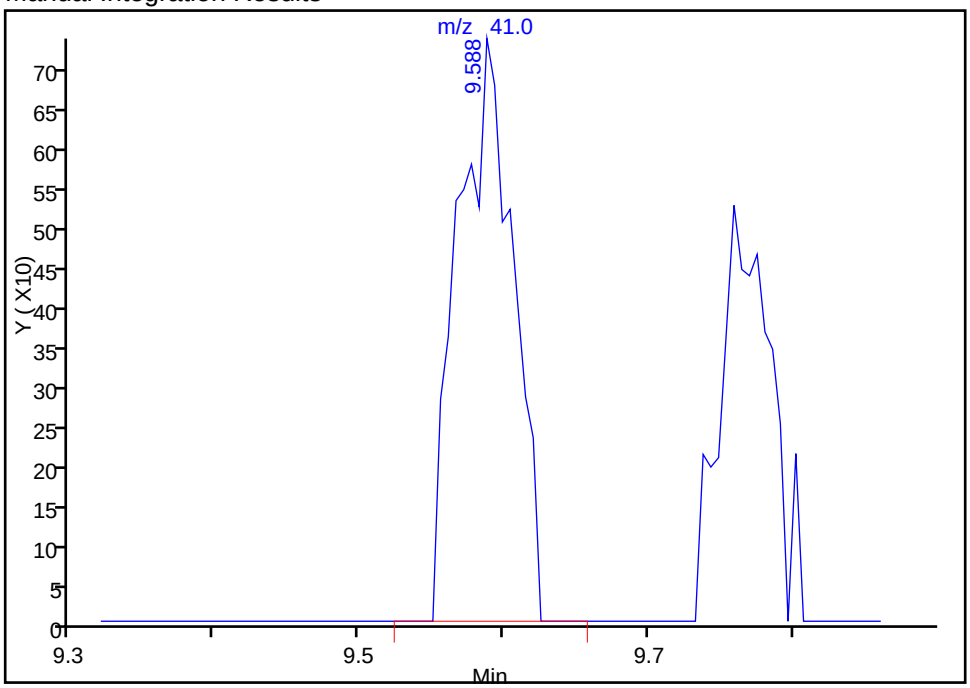
Processing Integration Results

RT: 9.59
Area: 1246
Amount: 0.098345
Amount Units: ppb v/v



Manual Integration Results

RT: 9.59
Area: 1983
Amount: 0.147498
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

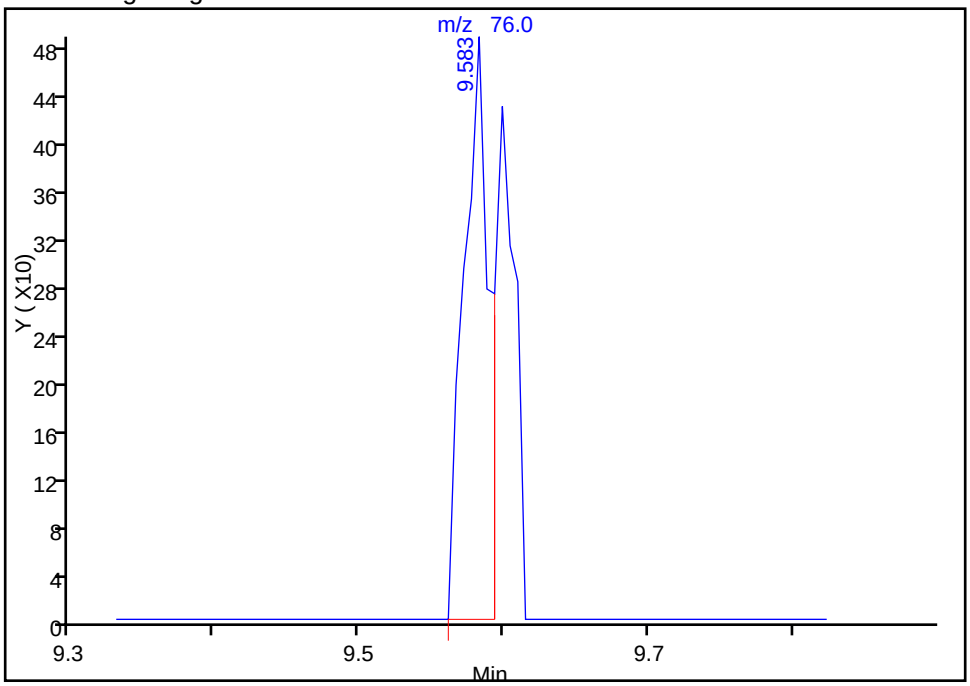
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 3-Chloro-1-propene, CAS: 107-05-1

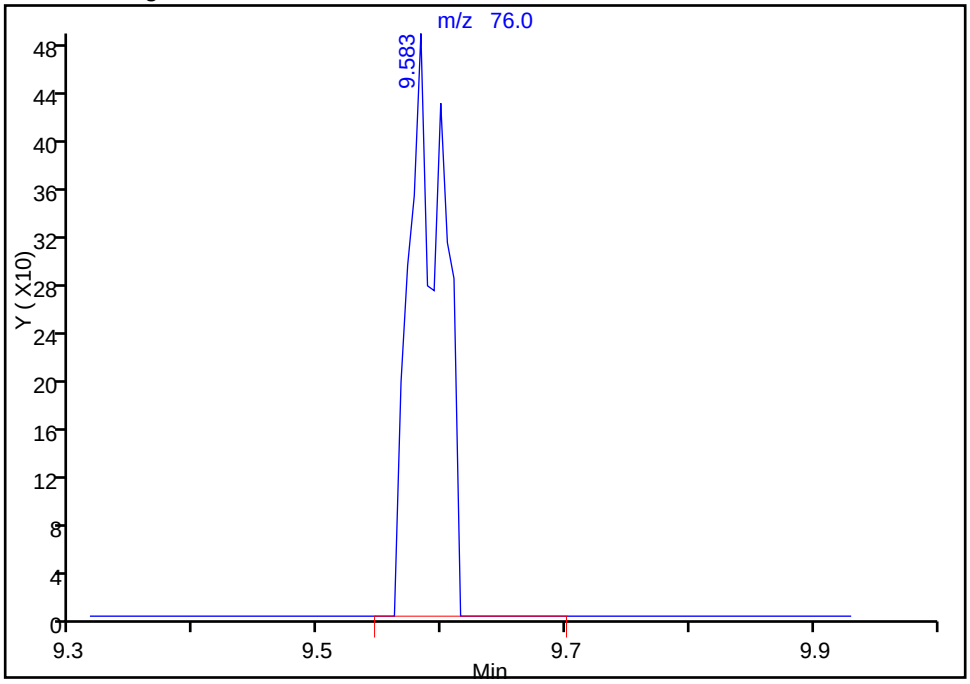
Processing Integration Results

RT: 9.58
Area: 600
Amount: 0.098345
Amount Units: ppb v/v



Manual Integration Results

RT: 9.58
Area: 927
Amount: 0.147498
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
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Audit Reason: Baseline

Manual Integration/User Assign Peak Report

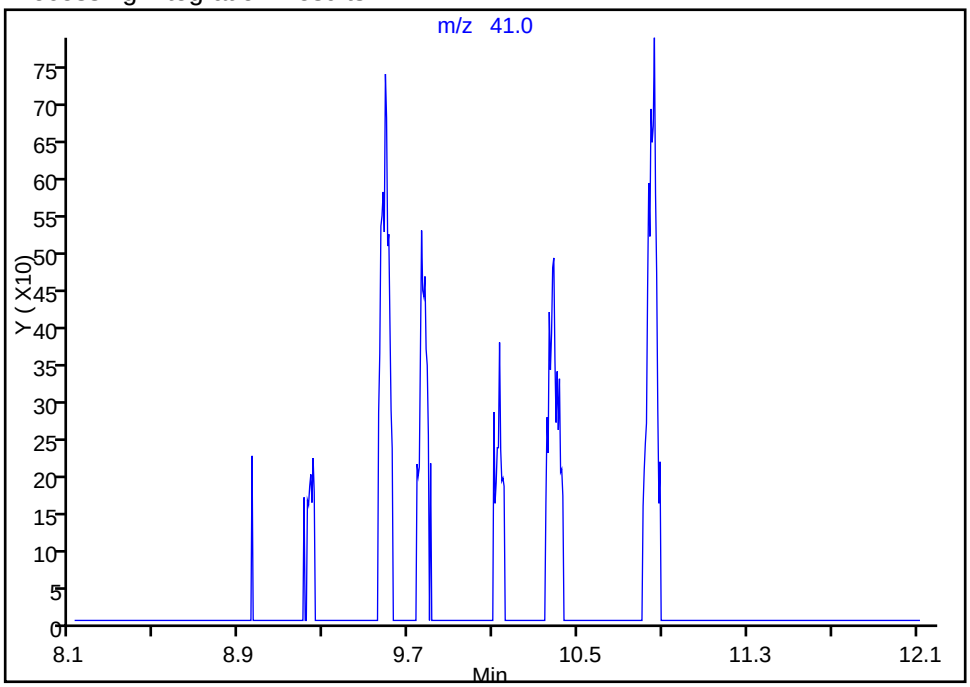
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

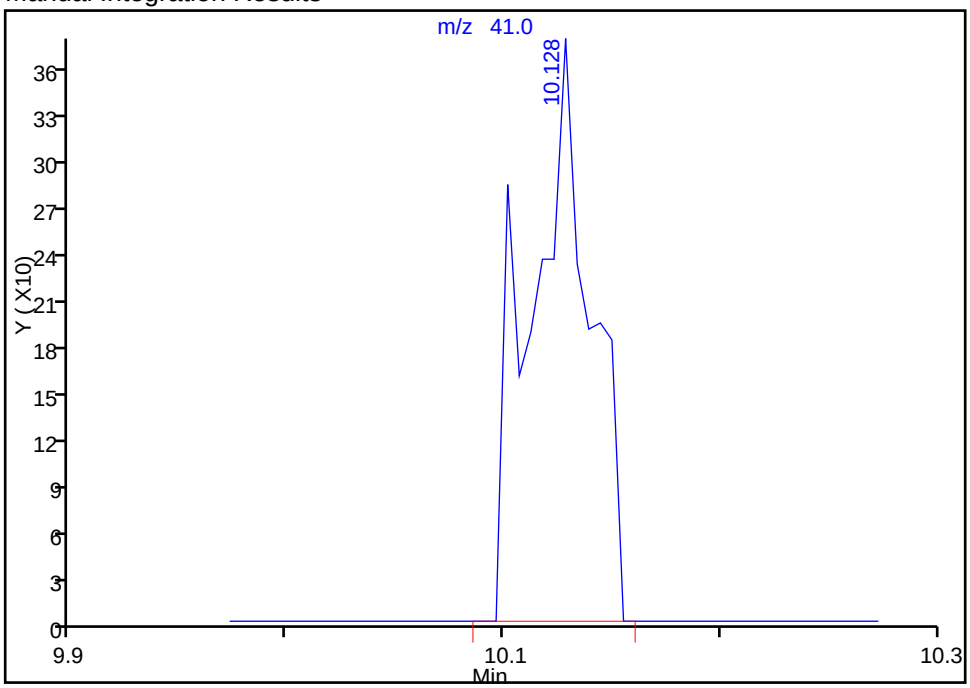
Processing Integration Results

RT: 10.12
Area: 0
Amount: 0.118789
Amount Units: ppb v/v



Manual Integration Results

RT: 10.13
Area: 724
Amount: 0.118789
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

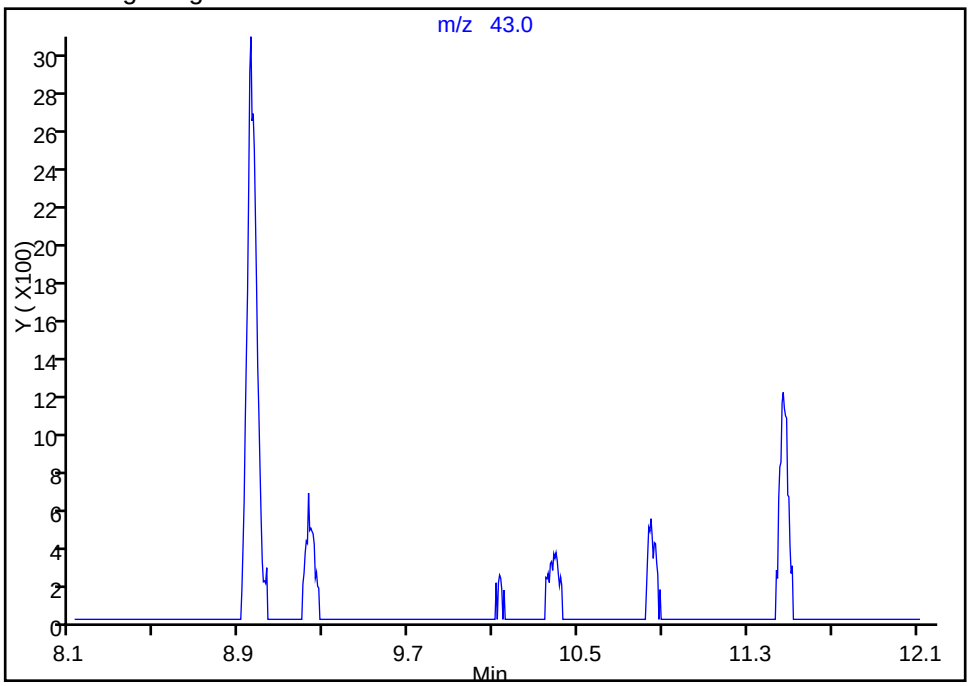
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

28 2-Methyl-2-propanol, CAS: 75-65-0

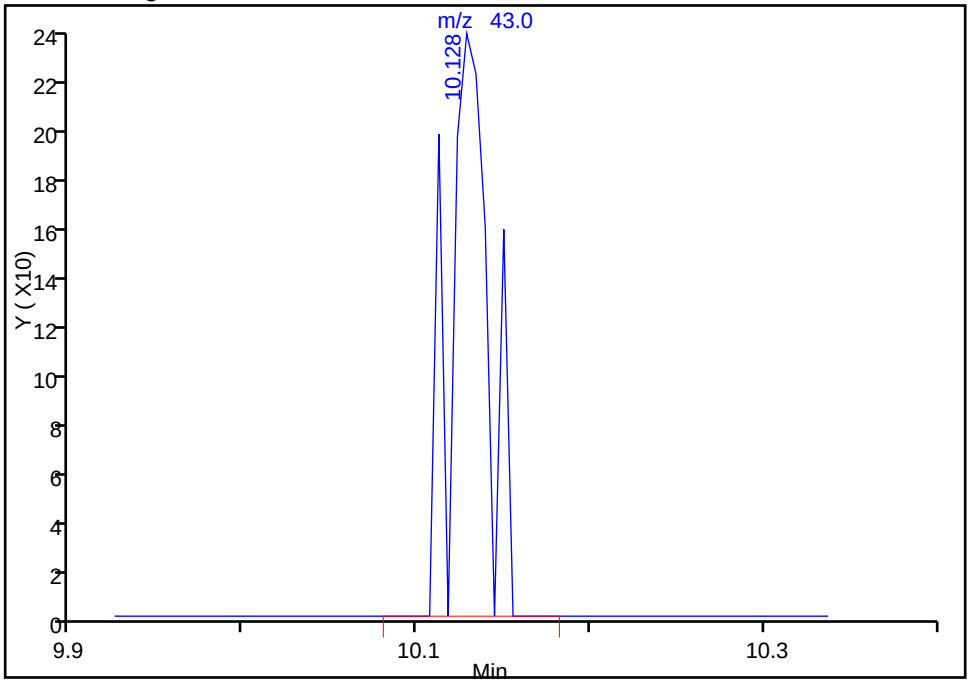
Processing Integration Results

RT: 10.12
Area: 0
Amount: 0.118789
Amount Units: ppb v/v



Manual Integration Results

RT: 10.13
Area: 366
Amount: 0.118789
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

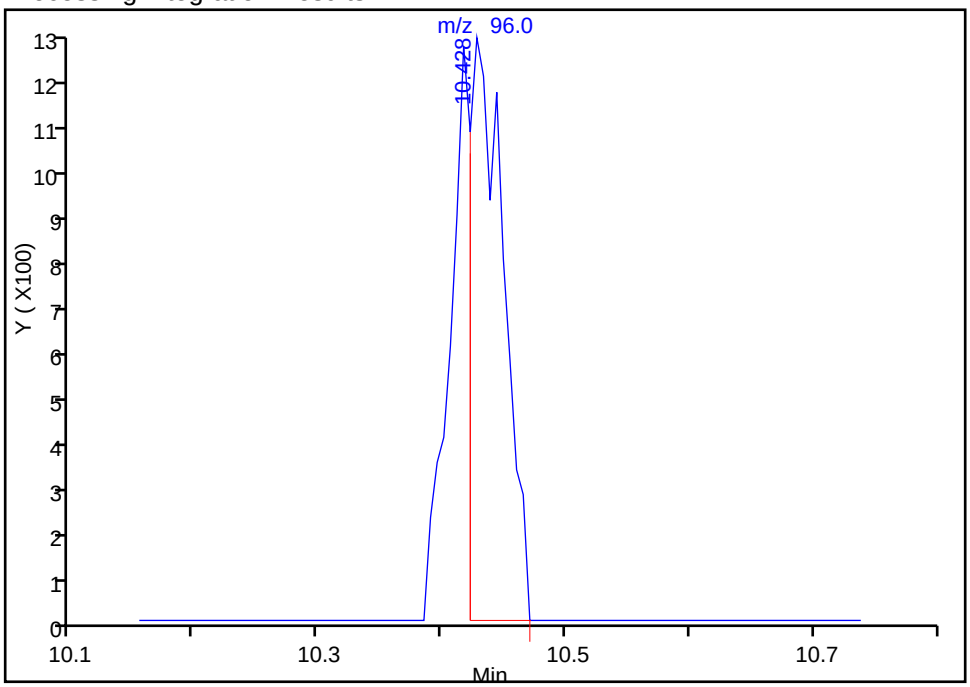
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

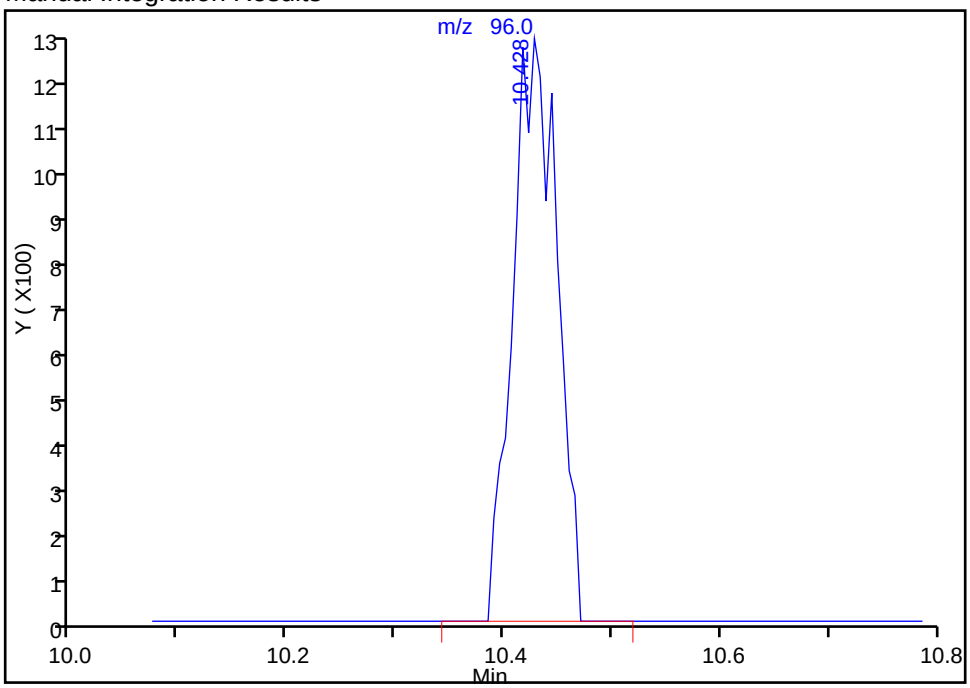
Processing Integration Results

RT: 10.43
Area: 2428
Amount: 0.168704
Amount Units: ppb v/v



Manual Integration Results

RT: 10.43
Area: 3618
Amount: 0.168704
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

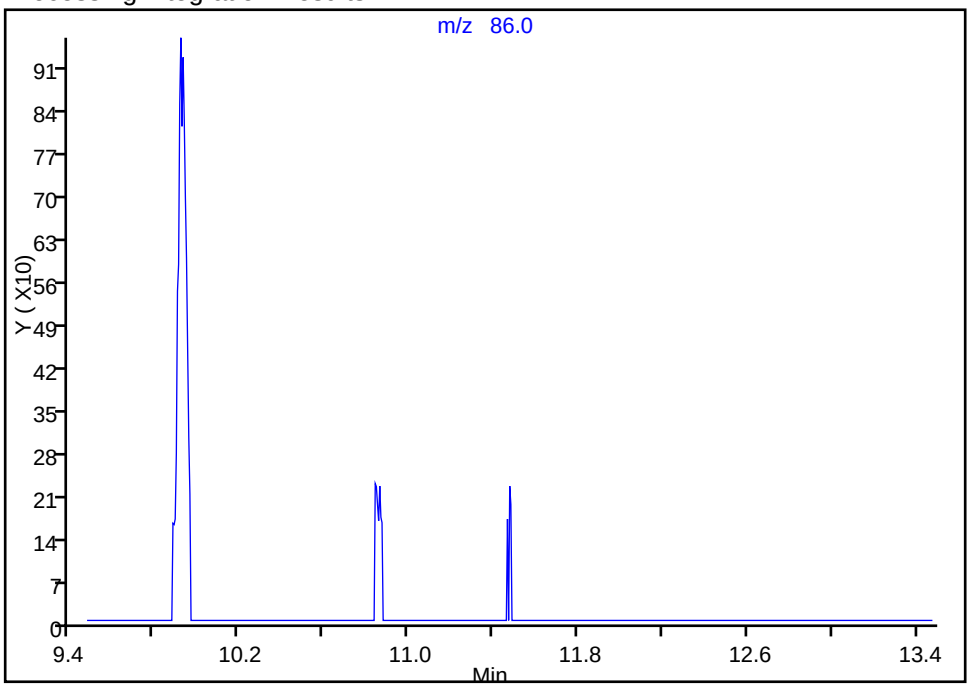
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

35 Vinyl acetate, CAS: 108-05-4

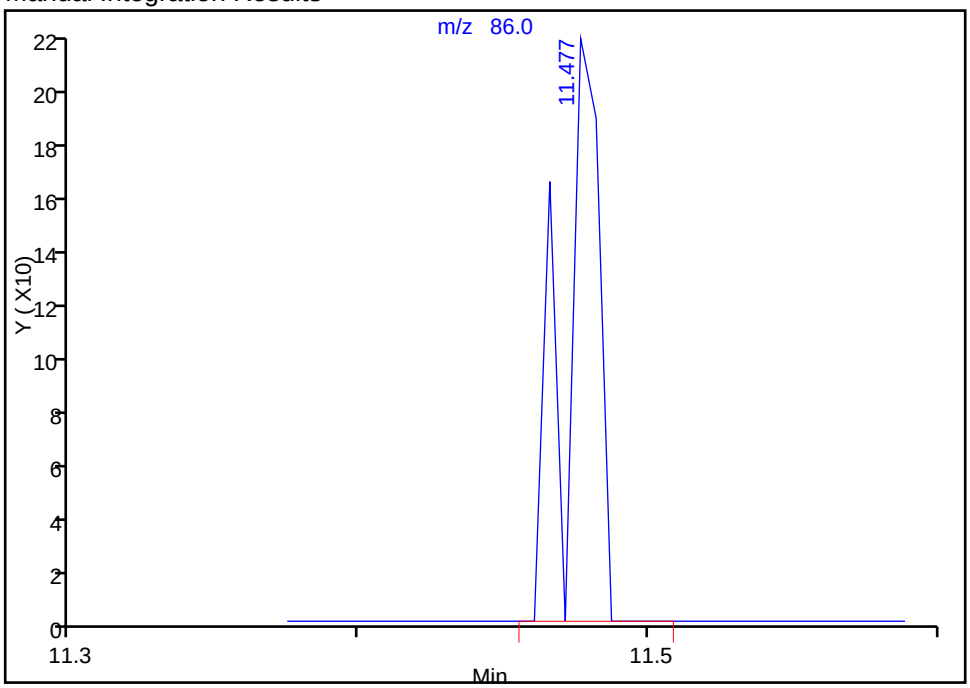
Processing Integration Results

RT: 11.48
Area: 0
Amount: 0.115883
Amount Units: ppb v/v



Manual Integration Results

RT: 11.48
Area: 185
Amount: 0.115883
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

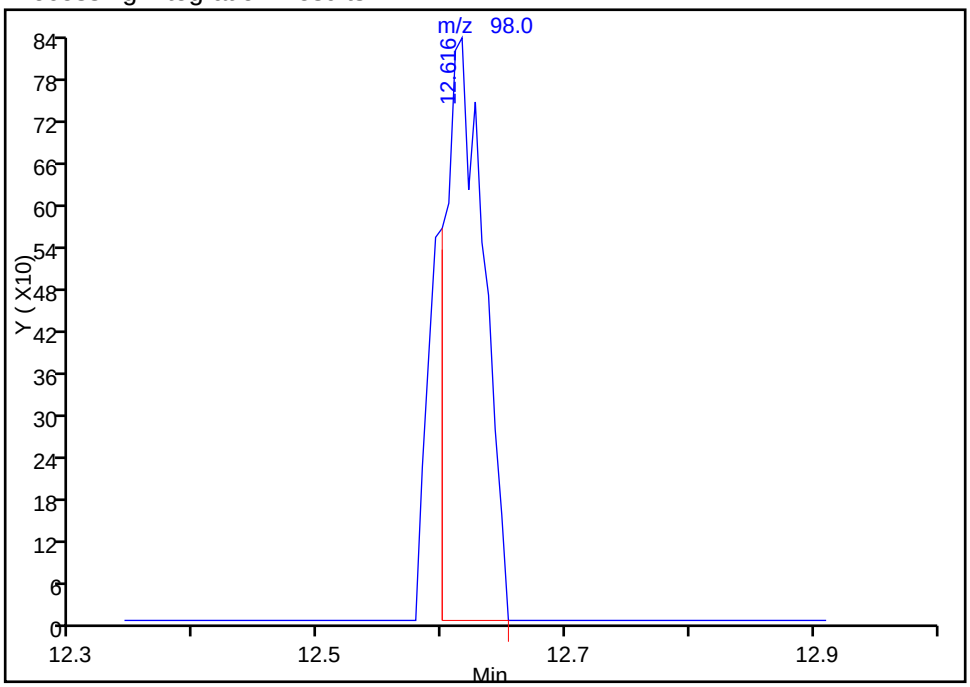
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

37 cis-1,2-Dichloroethene, CAS: 156-59-2

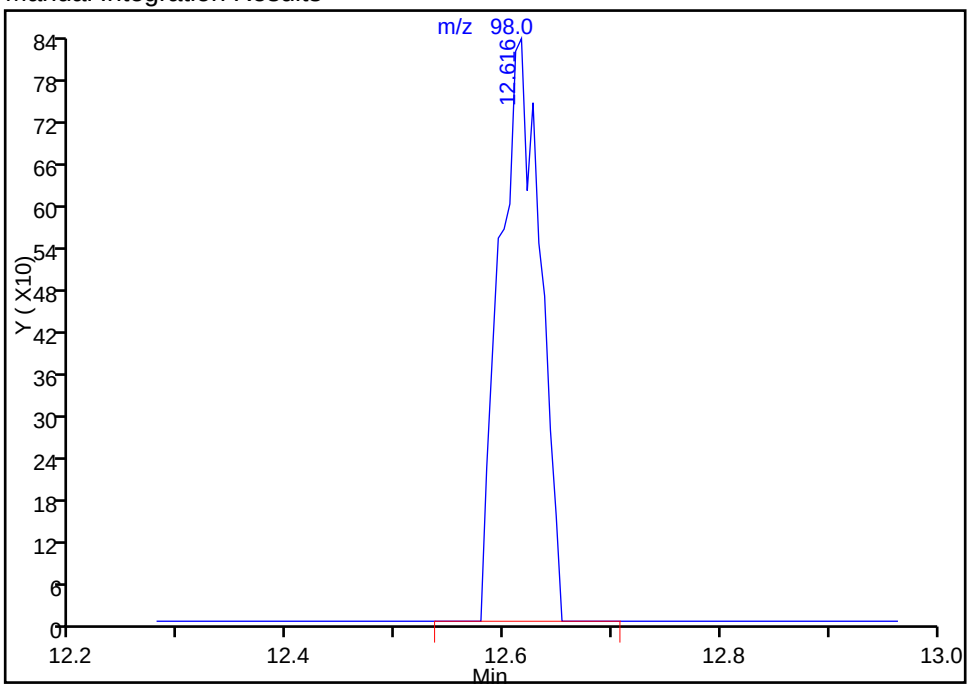
Processing Integration Results

RT: 12.62
Area: 1799
Amount: 0.156060
Amount Units: ppb v/v



Manual Integration Results

RT: 12.62
Area: 2169
Amount: 0.156060
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
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Audit Reason: Baseline

Manual Integration/User Assign Peak Report

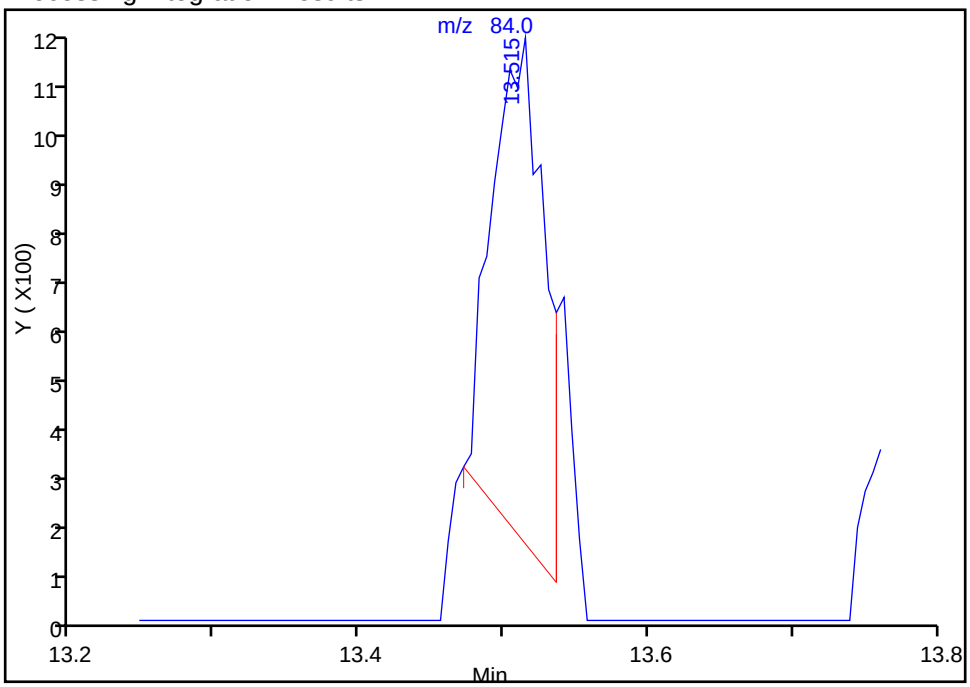
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

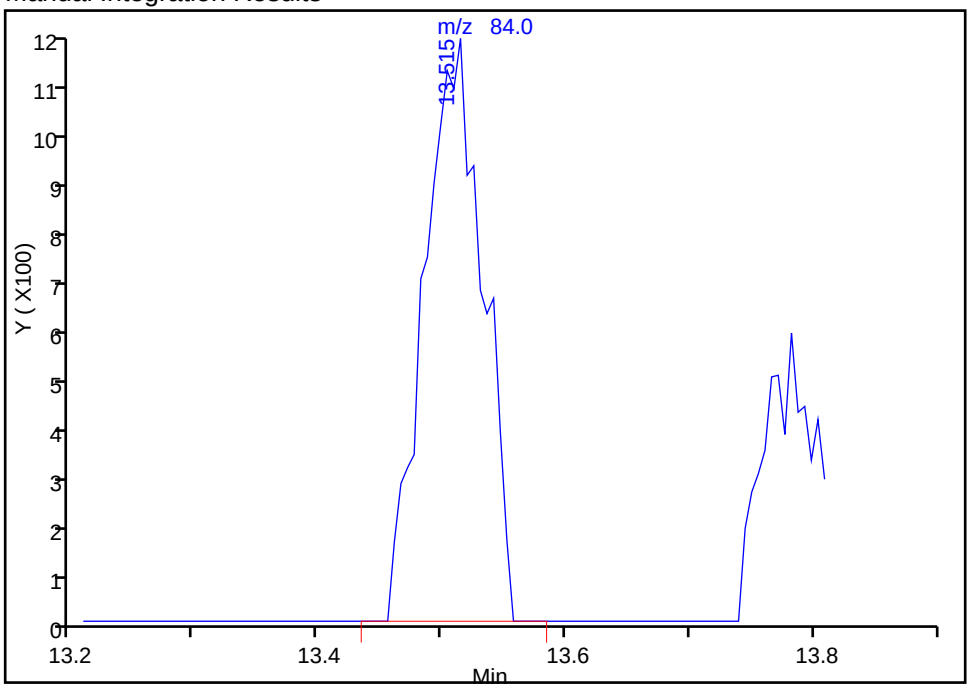
Processing Integration Results

RT: 13.51
Area: 2385
Amount: 0.097403
Amount Units: ppb v/v



Manual Integration Results

RT: 13.51
Area: 3636
Amount: 0.143277
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

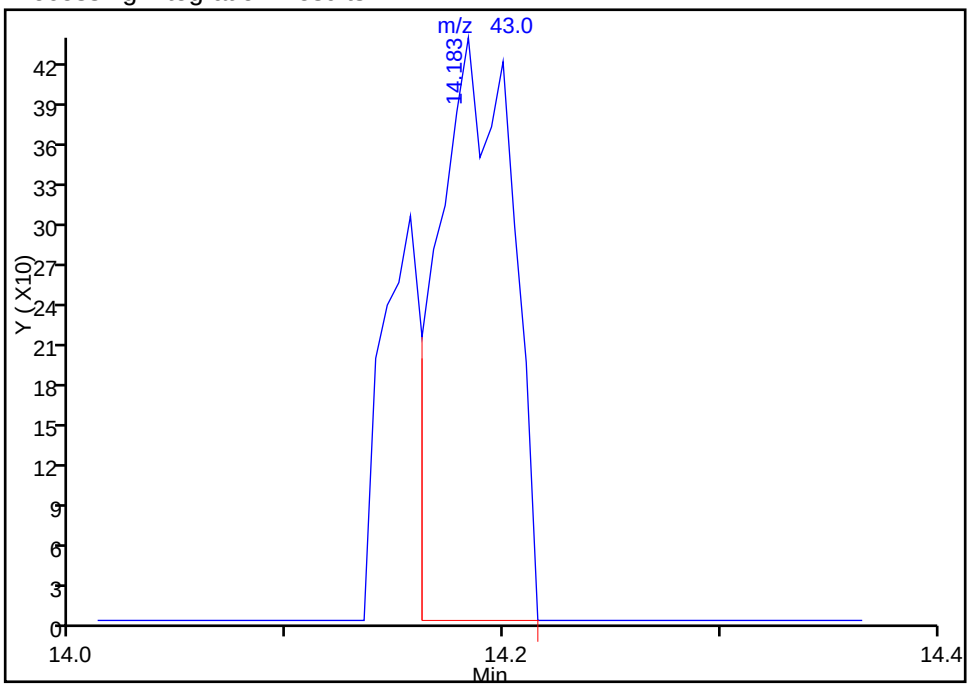
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1

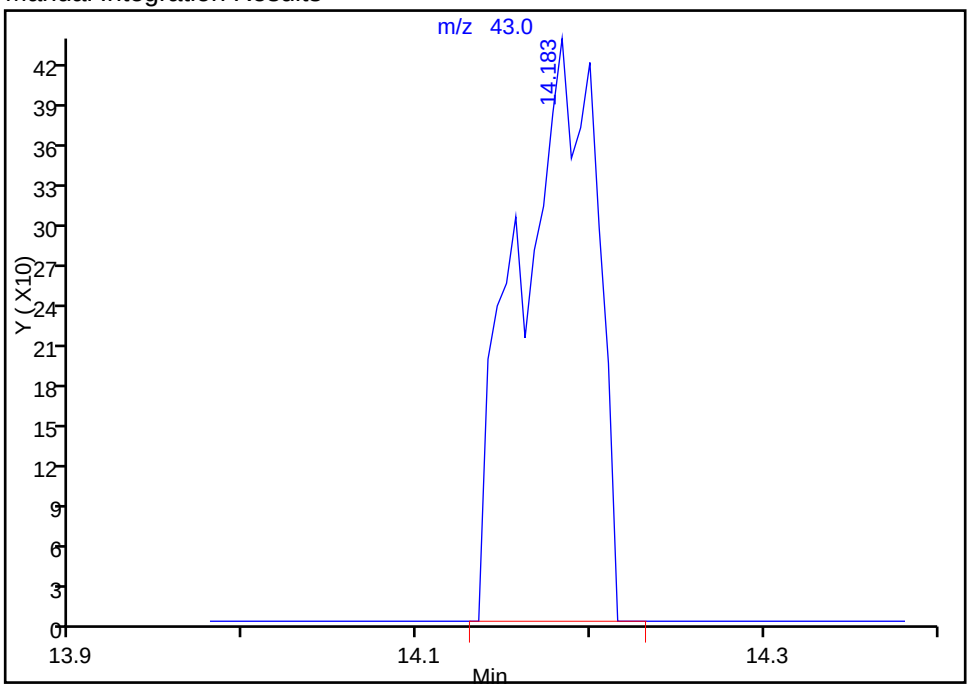
Processing Integration Results

RT: 14.18
Area: 1044
Amount: 0.132681
Amount Units: ppb v/v



Manual Integration Results

RT: 14.18
Area: 1362
Amount: 0.132681
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
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Audit Reason: Baseline

Manual Integration/User Assign Peak Report

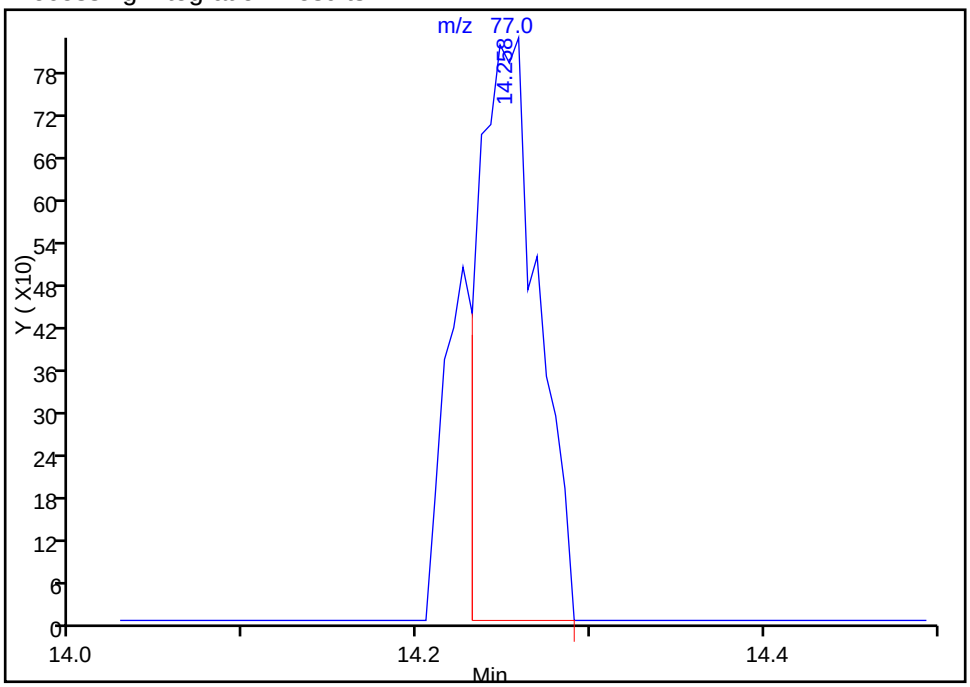
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

47 Benzene, CAS: 71-43-2

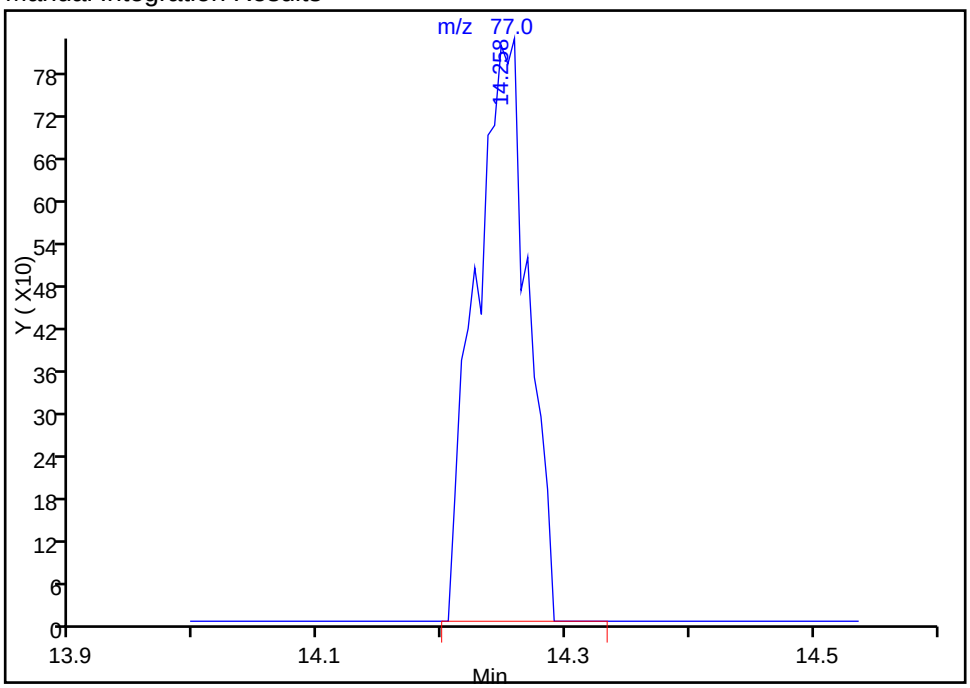
Processing Integration Results

RT: 14.26
Area: 1948
Amount: 0.182765
Amount Units: ppb v/v



Manual Integration Results

RT: 14.26
Area: 2417
Amount: 0.182765
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
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Audit Reason: Baseline

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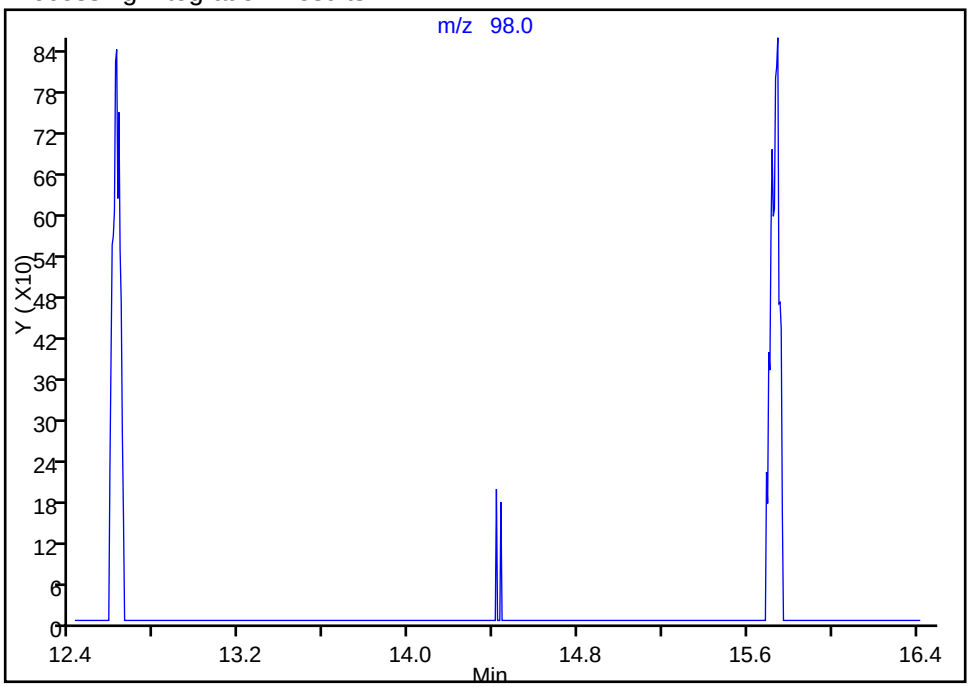
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

48 1,2-Dichloroethane, CAS: 107-06-2

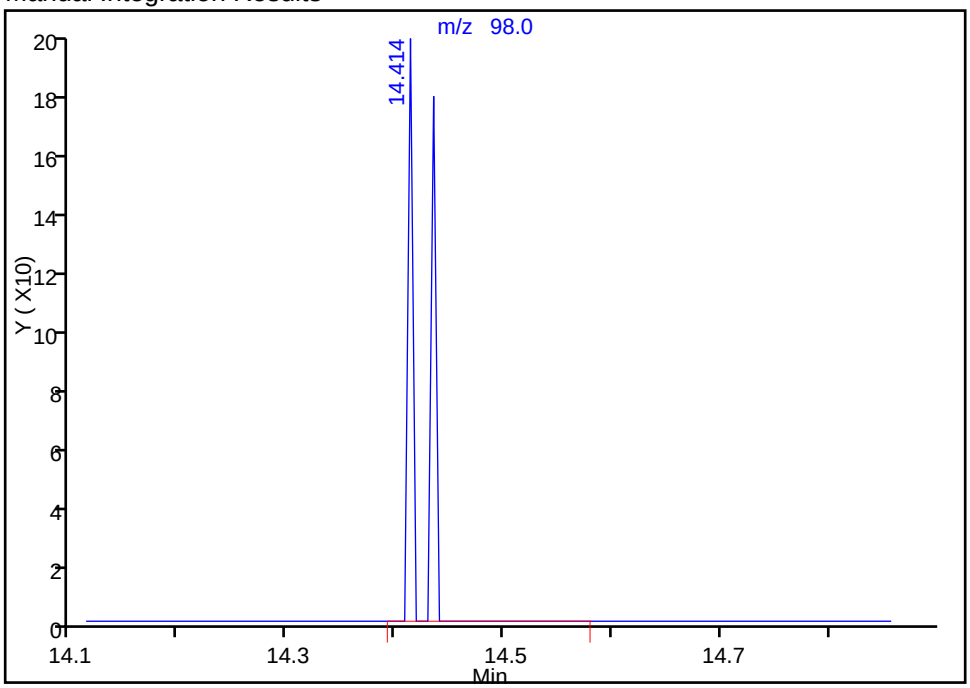
Processing Integration Results

RT: 14.42
Area: 0
Amount: 0.180969
Amount Units: ppb v/v



Manual Integration Results

RT: 14.41
Area: 117
Amount: 0.180969
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
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Audit Reason: Baseline

Manual Integration/User Assign Peak Report

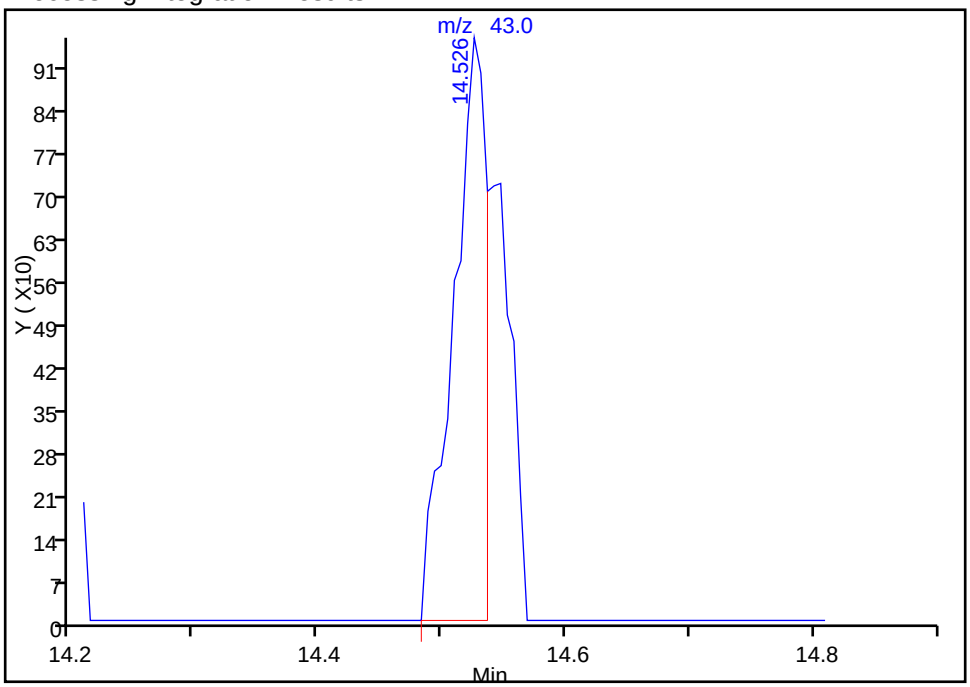
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

49 n-Heptane, CAS: 142-82-5

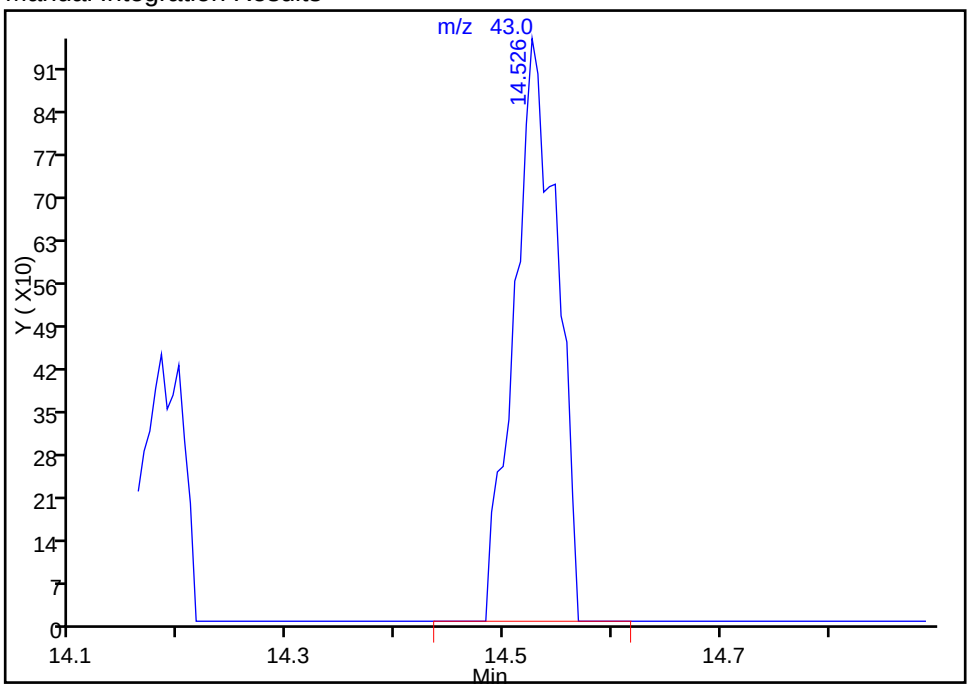
Processing Integration Results

RT: 14.53
Area: 1775
Amount: 0.085245
Amount Units: ppb v/v



Manual Integration Results

RT: 14.53
Area: 2608
Amount: 0.121778
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

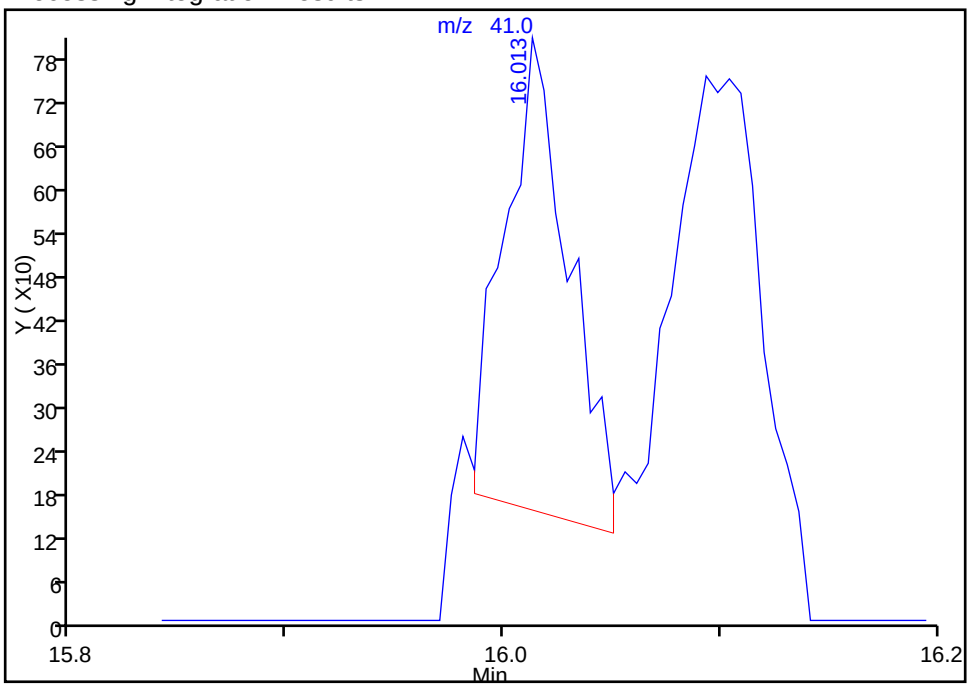
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

54 1,2-Dichloropropane, CAS: 78-87-5

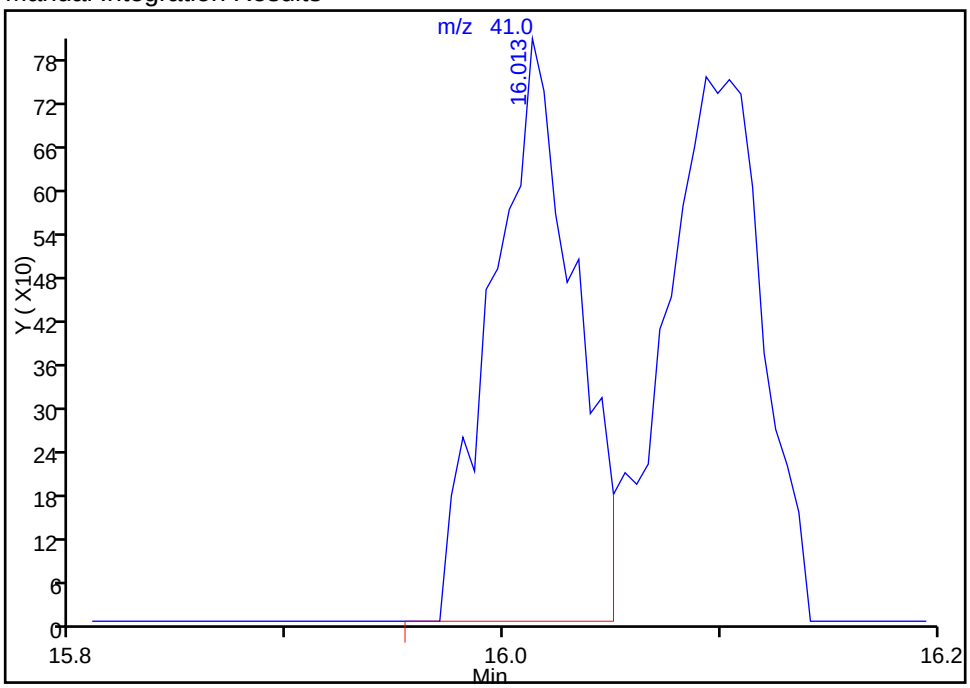
Processing Integration Results

RT: 16.01
Area: 1366
Amount: 0.178744
Amount Units: ppb v/v



Manual Integration Results

RT: 16.01
Area: 2123
Amount: 0.178744
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

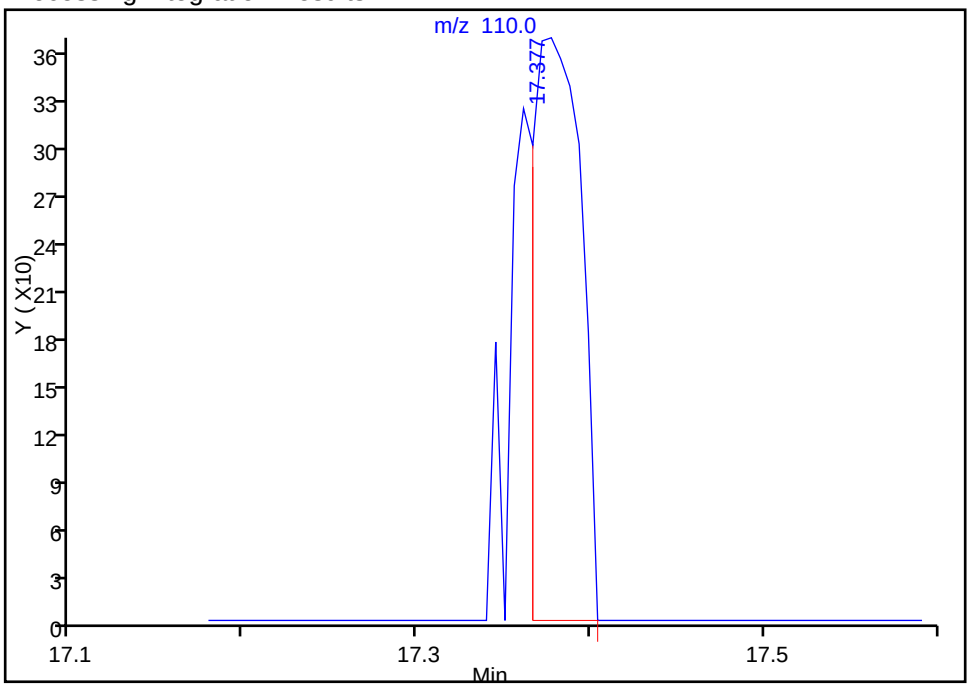
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

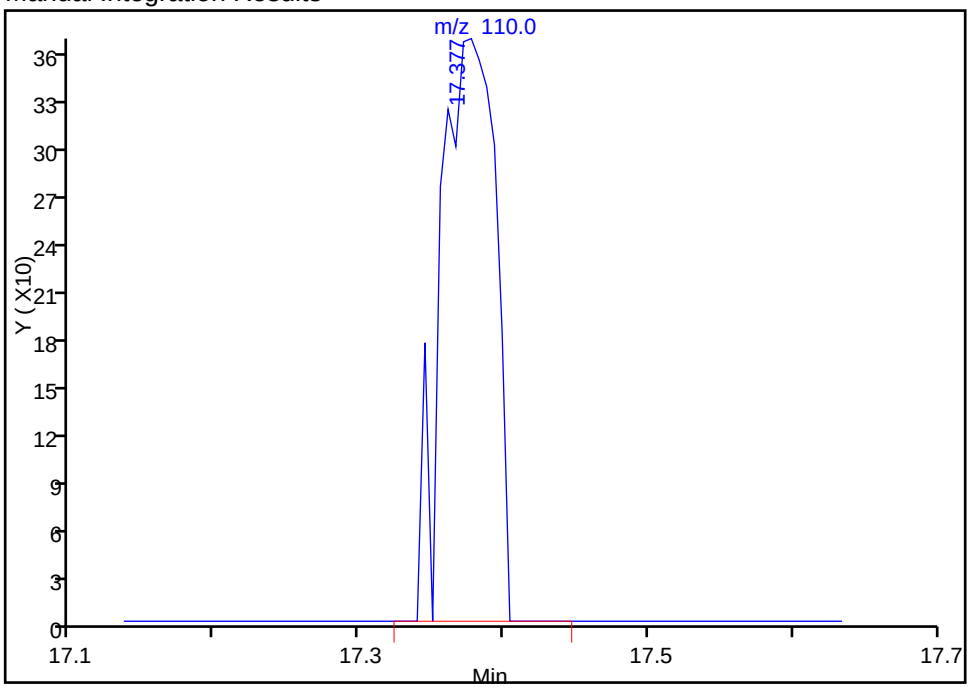
Processing Integration Results

RT: 17.38
Area: 698
Amount: 0.132671
Amount Units: ppb v/v



Manual Integration Results

RT: 17.38
Area: 942
Amount: 0.132671
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

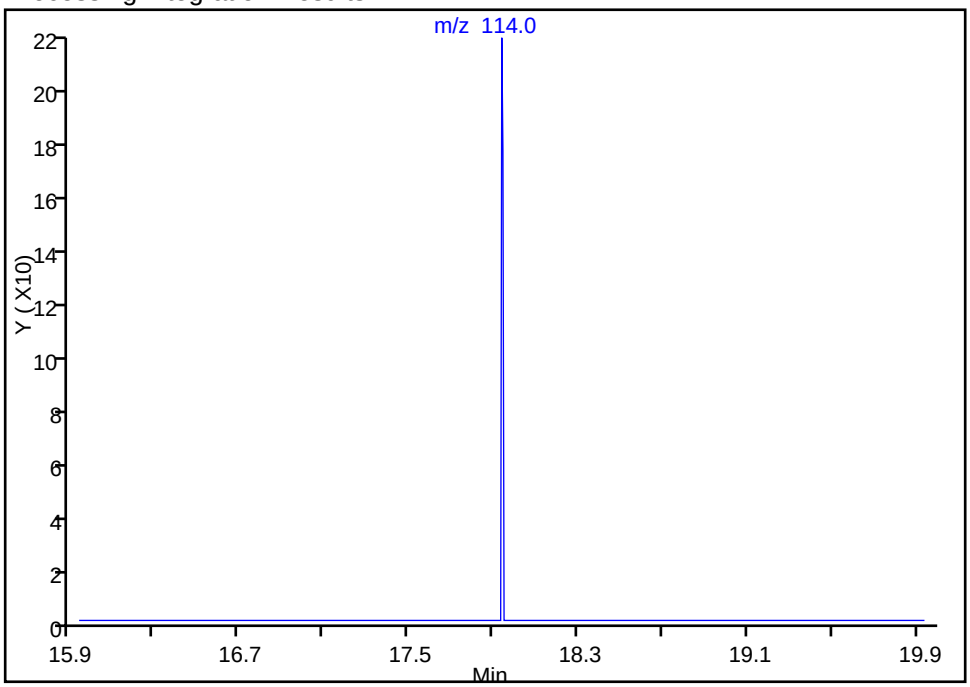
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

64 n-Octane, CAS: 111-65-9

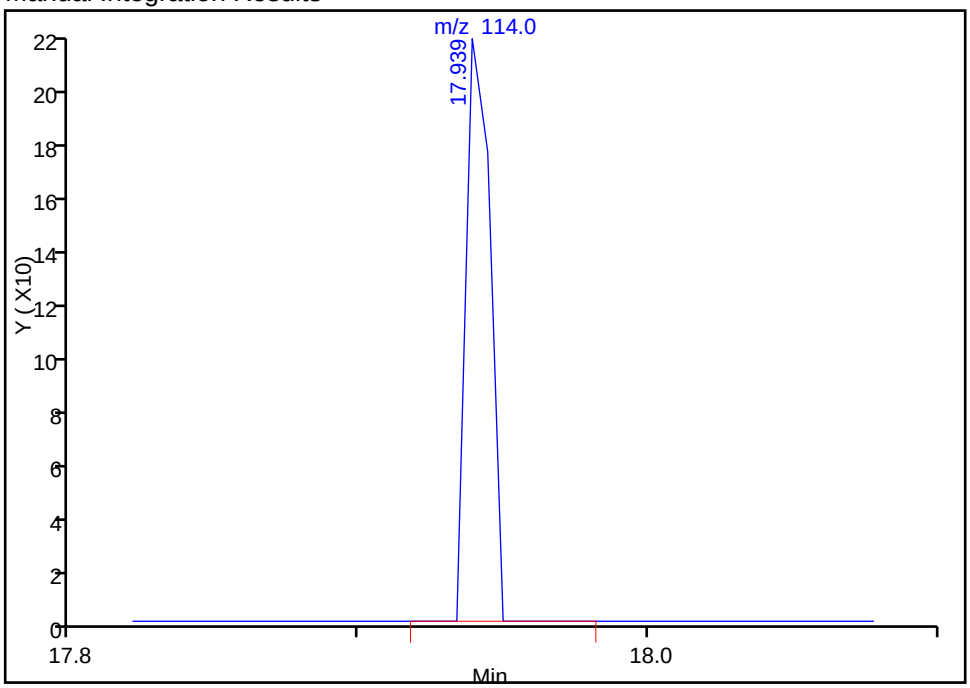
Processing Integration Results

RT: 17.94
Area: 0
Amount: 0.122368
Amount Units: ppb v/v



Manual Integration Results

RT: 17.94
Area: 122
Amount: 0.122368
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

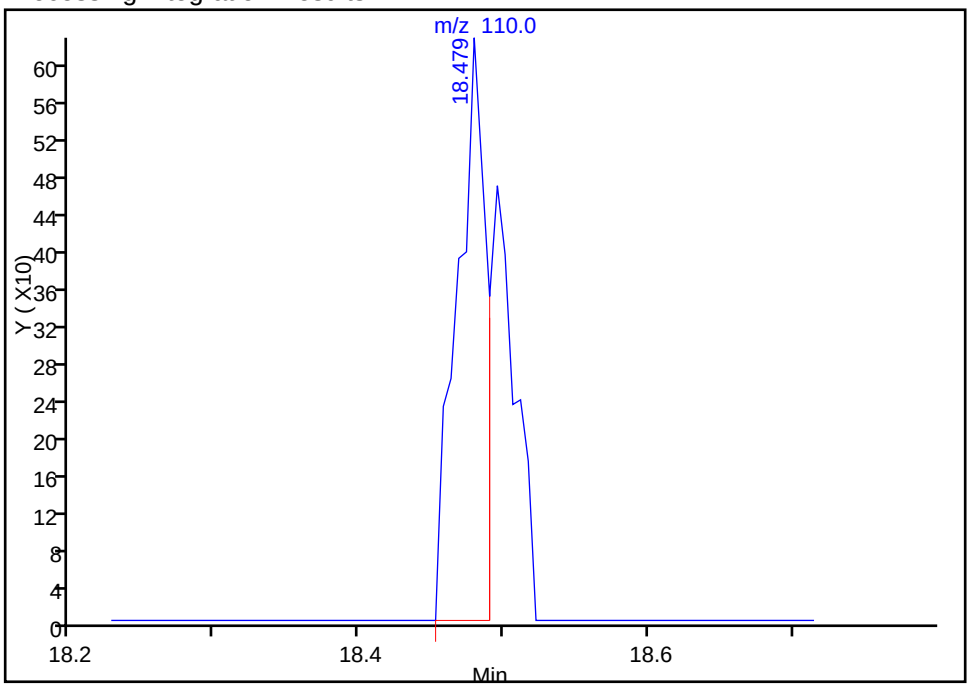
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

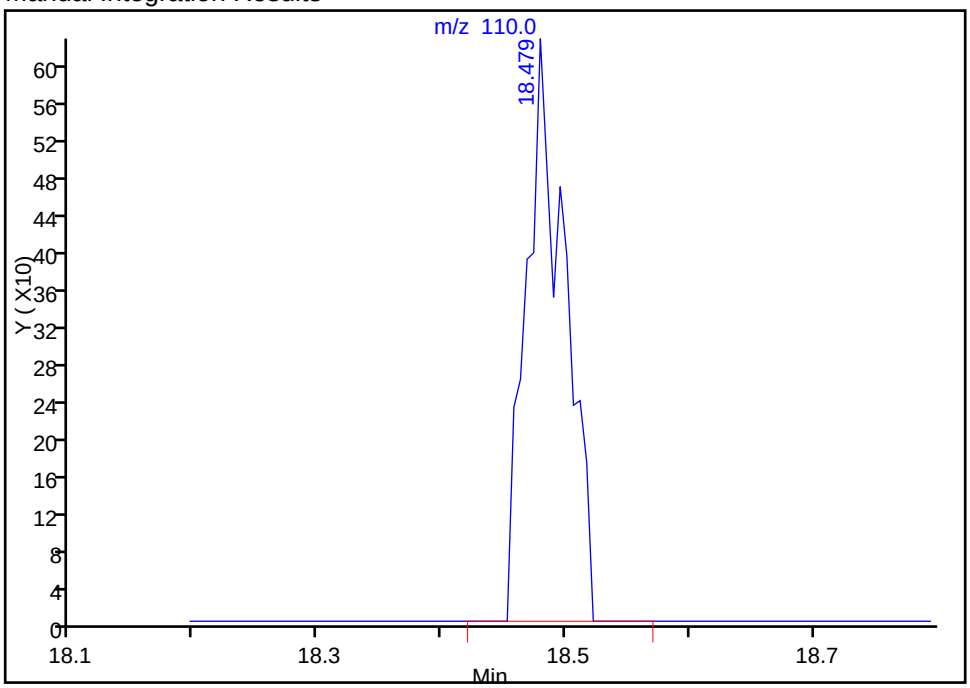
Processing Integration Results

RT: 18.48
Area: 878
Amount: 0.136204
Amount Units: ppb v/v



Manual Integration Results

RT: 18.48
Area: 1359
Amount: 0.136204
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

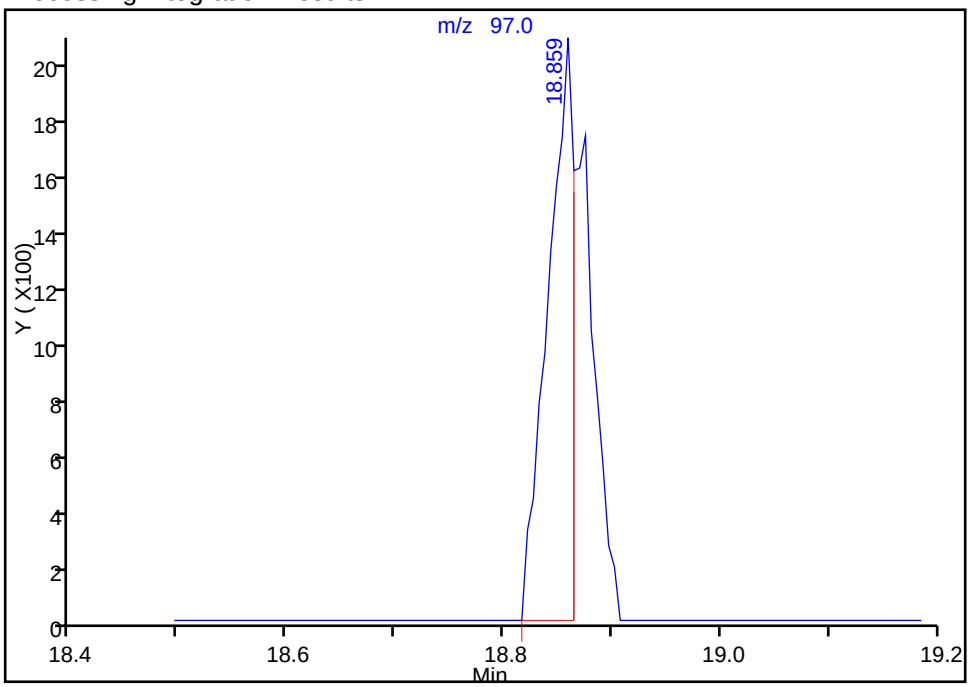
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

67 1,1,2-Trichloroethane, CAS: 79-00-5

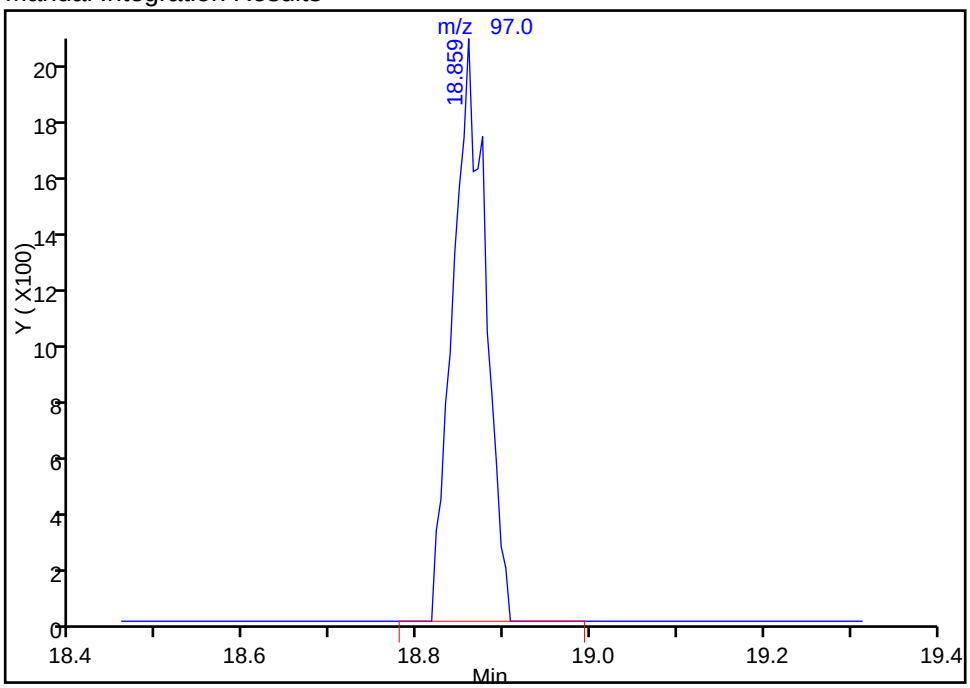
Processing Integration Results

RT: 18.86
Area: 3395
Amount: 0.175130
Amount Units: ppb v/v



Manual Integration Results

RT: 18.86
Area: 5350
Amount: 0.175130
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

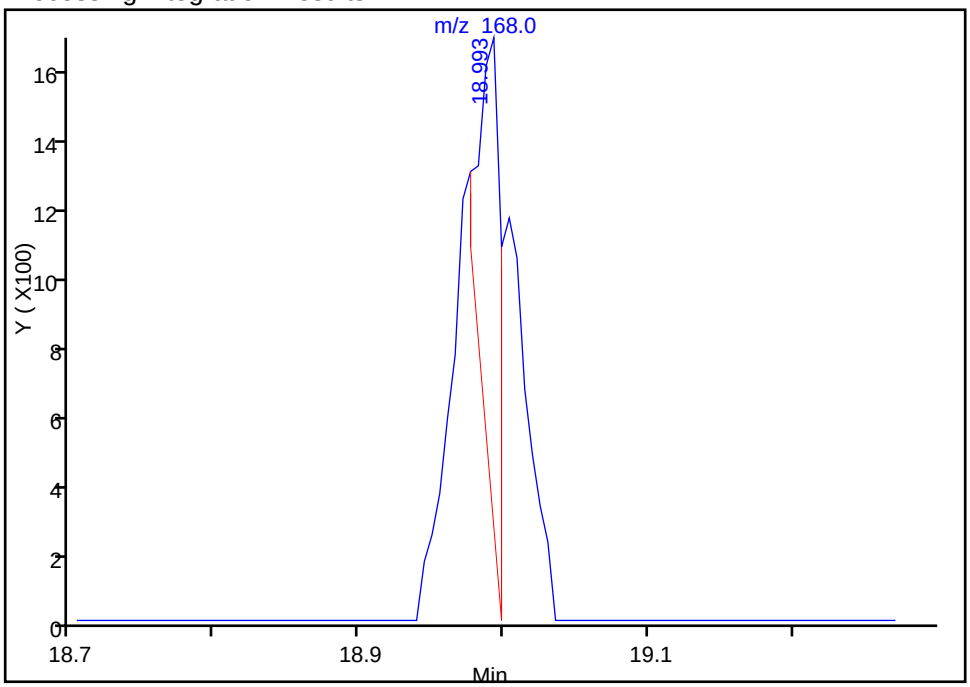
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

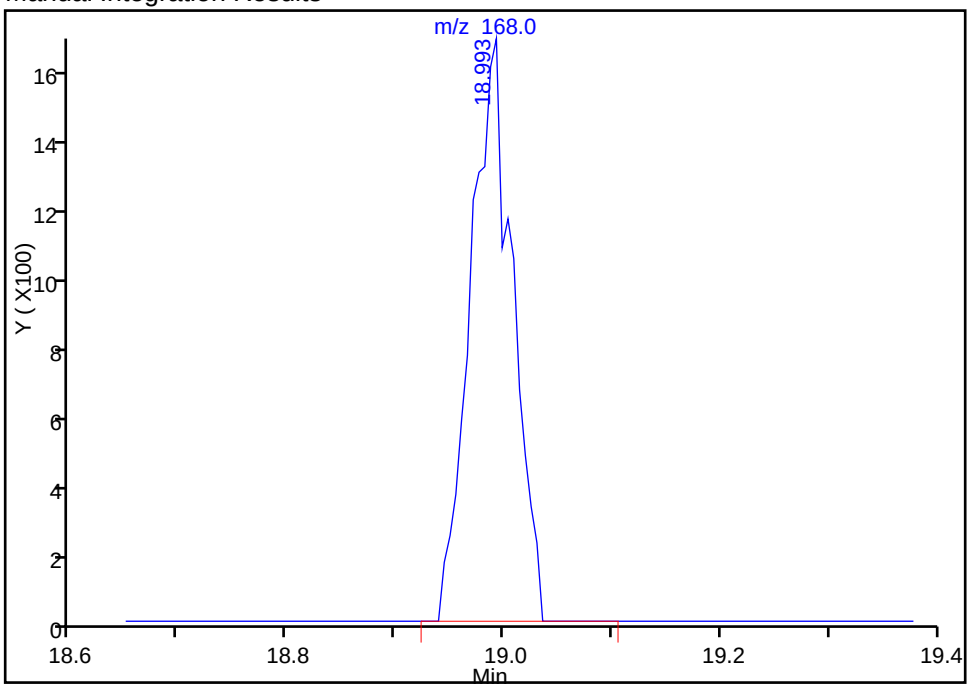
Processing Integration Results

RT: 18.99
Area: 1347
Amount: 0.175038
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 4487
Amount: 0.175038
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

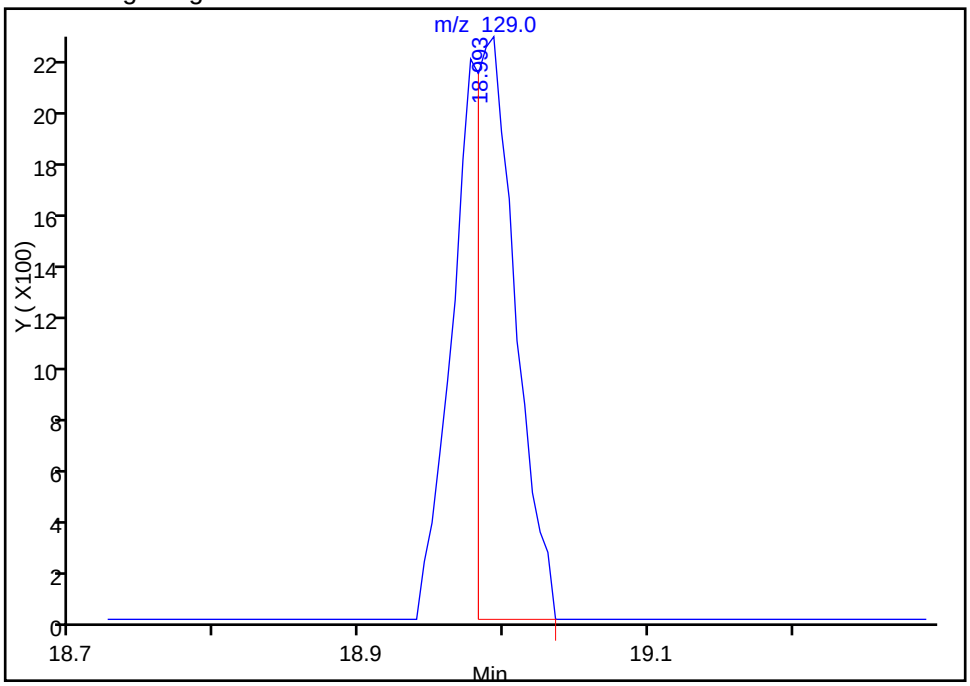
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d				
Injection Date:	28-Sep-2015 16:42:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

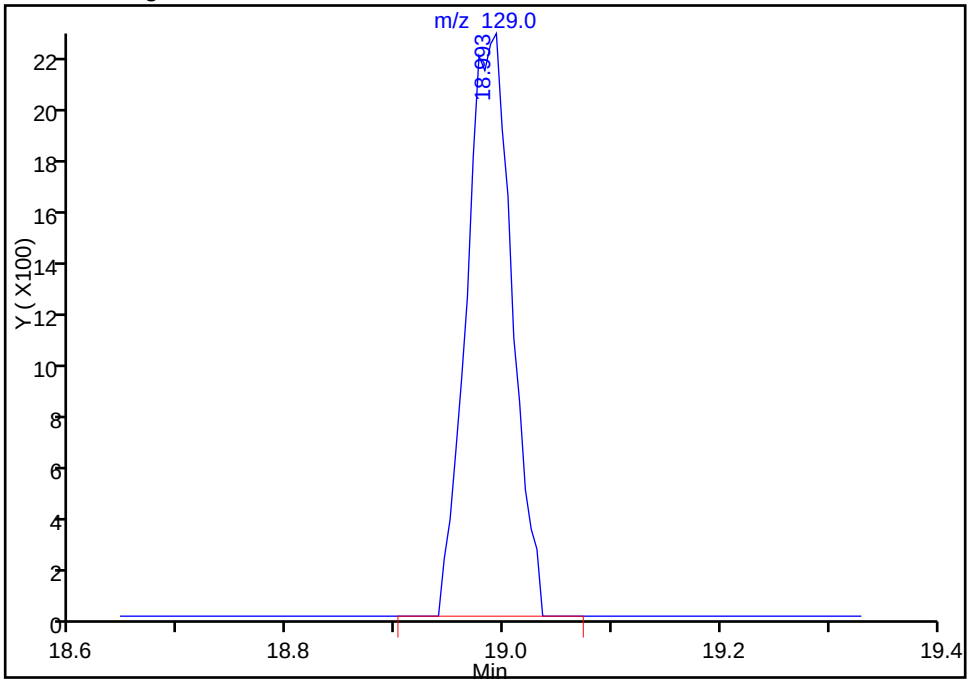
Processing Integration Results

RT: 18.99
Area: 4215
Amount: 0.175038
Amount Units: ppb v/v



Manual Integration Results

RT: 18.99
Area: 6580
Amount: 0.175038
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

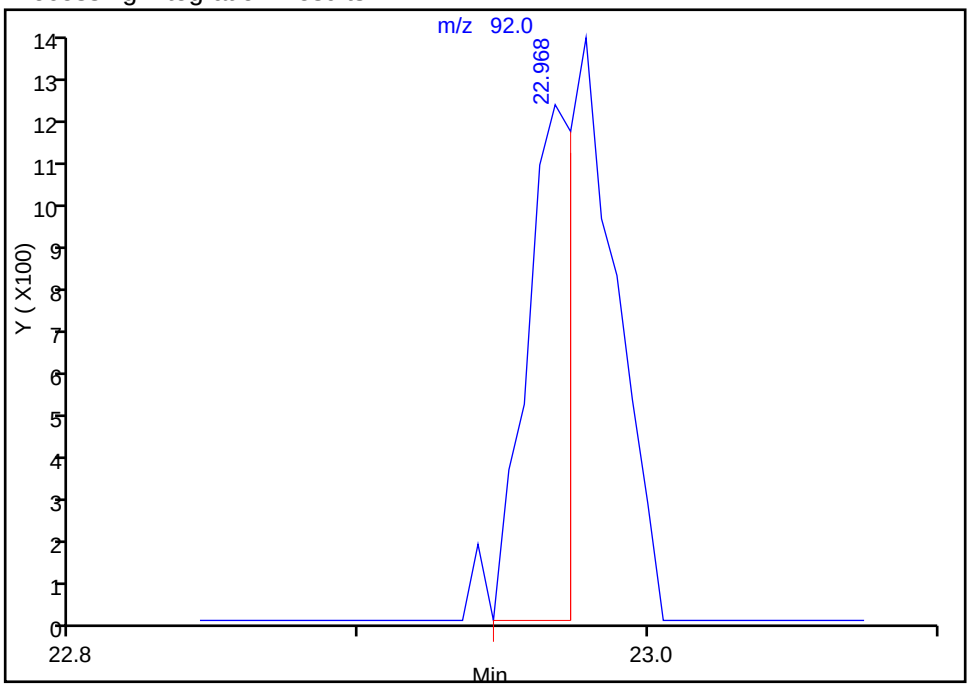
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

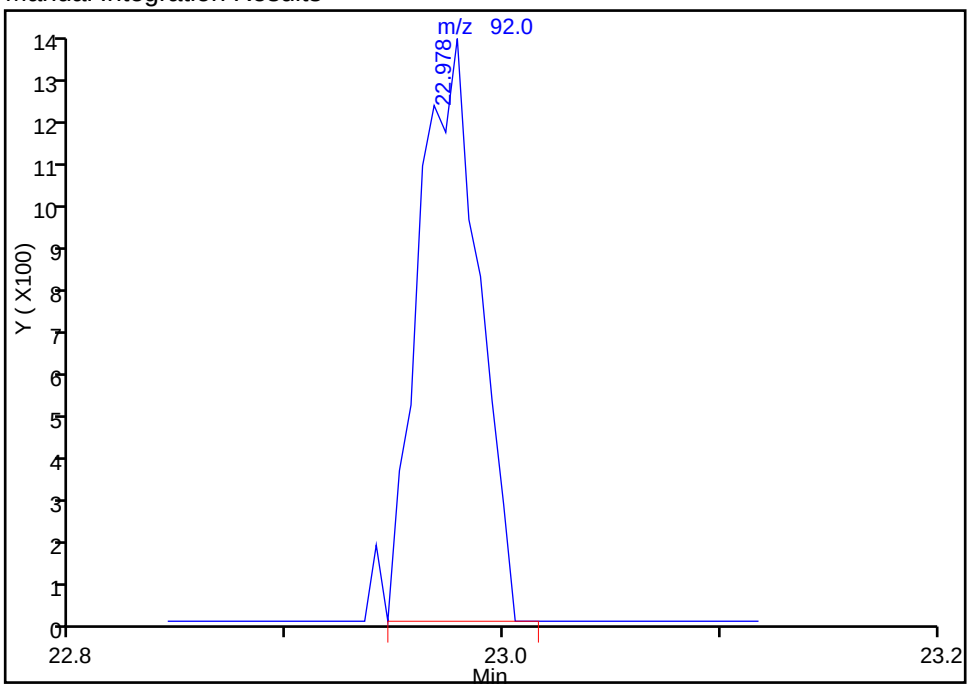
Processing Integration Results

RT: 22.97
Area: 1331
Amount: 0.153939
Amount Units: ppb v/v



Manual Integration Results

RT: 22.98
Area: 2546
Amount: 0.153939
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

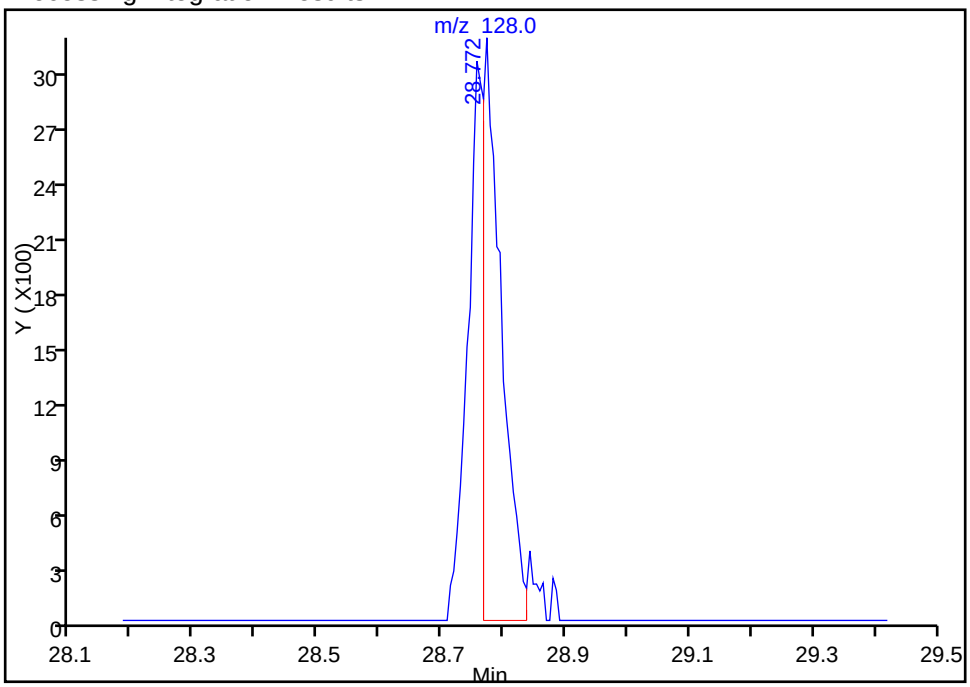
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_004.d
Injection Date: 28-Sep-2015 16:42:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

105 Naphthalene, CAS: 91-20-3

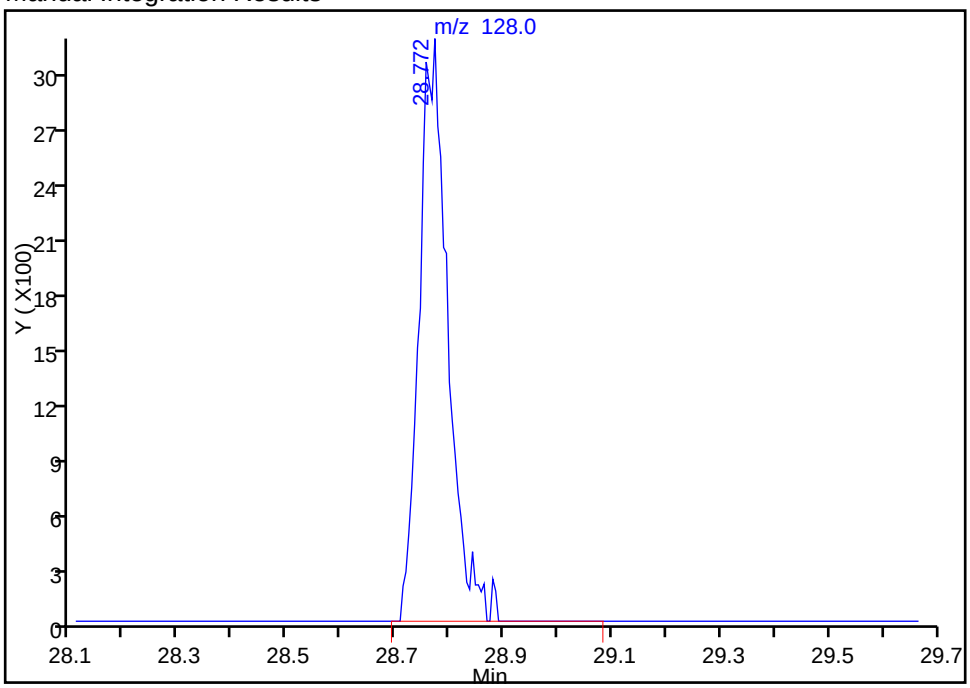
Processing Integration Results

RT: 28.77
Area: 6645
Amount: 0.042982
Amount Units: ppb v/v



Manual Integration Results

RT: 28.77
Area: 11780
Amount: 0.076197
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Sep-2015 17:30:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-005
Misc. Info.: ic-03
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:52 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:13:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.324	4.329	-0.005	95	5162	0.5005	0.6193	
2 Dichlorodifluoromethane	85	4.420	4.431	-0.011	99	29910	0.5005	0.5400	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	12646	0.5005	0.5663	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.806	4.806	0.000	83	26555	0.5005	0.5564	
5 Chloromethane	50	5.004	5.009	-0.005	98	6194	0.5005	0.5725	M
6 Butane	43	5.287	5.292	-0.005	95	8353	0.5005	0.5299	
7 Vinyl chloride	62	5.357	5.357	0.000	97	6985	0.5005	0.5496	
8 Butadiene	54	5.448	5.458	-0.010	94	4627	0.5005	0.5300	
10 Bromomethane	94	6.373	6.373	0.000	97	8772	0.5005	0.5369	
9 BFB									
11 Chloroethane	64	6.673	6.678	-0.005	96	4631	0.5005	0.5492	
12 2-Methylbutane	43	6.764	6.769	-0.005	82	6578	0.5005	0.5138	
13 Vinyl bromide	106	7.170	7.175	-0.005	98	9862	0.5005	0.4908	
14 Trichlorofluoromethane	101	7.293	7.298	-0.005	98	34037	0.5005	0.5413	
16 Pentane	43	7.459	7.464	-0.005	95	8964	0.5005	0.4756	
17 Ethanol	45	7.946	7.951	-0.005	98	30906	5.01	5.80	
18 Ethyl ether	59	8.090	8.090	0.000	91	4506	0.5005	0.4779	
19 Acrolein	56	8.577	8.582	-0.005	43	1939	0.5005	0.5583	
20 1,1,2-Trichloro-1,2,2-trif	101	8.593	8.598	-0.005	93	22513	0.5005	0.5529	
21 1,1-Dichloroethene	96	8.673	8.668	0.005	96	8723	0.5005	0.4833	
22 Acetone	43	8.946	8.946	0.000	97	38345	0.5005	1.97	
23 Carbon disulfide	76	9.160	9.166	-0.006	98	23283	0.5005	0.5358	
24 Isopropyl alcohol	45	9.235	9.224	0.011	93	10290	0.5005	0.6612	
25 3-Chloro-1-propene	41	9.588	9.594	-0.006	95	5771	0.5005	0.4560	M
26 Acetonitrile	41	9.765	9.759	0.006	97	3997	0.5005	0.5665	
27 Methylene Chloride	49	9.931	9.931	0.000	80	8801	0.5005	0.6148	
28 2-Methyl-2-propanol	59	10.118	10.118	0.000	97	10490	0.5005	0.3814	
S 30 1,2-Dichloroethene, Total	61				0		1.00	1.01	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	96	20137	0.5005	0.4206	
31 trans-1,2-Dichloroethene	61	10.428	10.433	-0.005	91	10882	0.5005	0.5025	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.615	10.615	0.000	69	3968	0.5005	0.4553	M
33 Hexane	57	10.845	10.856	-0.011	88	8350	0.5005	0.4397	
34 1,1-Dichloroethane	63	11.423	11.428	-0.005	99	15005	0.5005	0.5351	
35 Vinyl acetate	43	11.477	11.477	0.000	99	10109	0.5005	0.3697	
37 cis-1,2-Dichloroethene	96	12.616	12.621	-0.005	87	10232	0.5005	0.5053	
38 2-Butanone (MEK)	72	12.654	12.659	-0.005	98	5903	0.5005	0.6541	
39 Ethyl acetate	88	12.675	12.670	0.005	94	661	0.5005	0.3995	
* 40 Chlorobromomethane	128	13.103	13.108	-0.005	71	174436	10.0	10.0	
41 Tetrahydrofuran	42	13.130	13.114	0.016	32	5975	0.5005	0.4753	
42 Chloroform	83	13.210	13.221	-0.011	94	23323	0.5005	0.5424	
43 Cyclohexane	84	13.520	13.509	0.011	90	10967	0.5005	0.4639	
44 1,1,1-Trichloroethane	97	13.531	13.536	-0.005	94	26641	0.5005	0.5258	
45 Carbon tetrachloride	117	13.782	13.788	-0.006	98	29485	0.5005	0.5288	
46 Isooctane	57	14.189	14.189	0.000	98	27314	0.5005	0.4265	
47 Benzene	78	14.253	14.253	0.000	94	29217	0.5005	0.5287	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	97	13892	0.5005	0.5238	
49 n-Heptane	43	14.531	14.537	-0.006	90	8816	0.5005	0.4419	
A 51 GRO	1	14.922	(6.759-23.085)		0	6833253	0.5005	0	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	816295	10.0	10.0	
52 n-Butanol	56	15.302	15.296	0.006	90	5338	0.5005	0.7481	
53 Trichloroethene	95	15.478	15.484	-0.006	94	14937	0.5005	0.5268	
54 1,2-Dichloropropane	63	16.013	16.019	-0.005	84	9211	0.5005	0.5223	
55 Methyl methacrylate	69	16.093	16.099	-0.006	91	7633	0.5005	0.4058	
56 1,4-Dioxane	88	16.195	16.195	0.000	70	5170	0.5005	0.5339	
57 Dibromomethane	174	16.254	16.259	-0.005	87	19767	0.5005	0.5252	
58 Dichlorobromomethane	83	16.500	16.505	-0.005	97	25505	0.5005	0.5293	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	10192251	0.5005	215.8	
60 cis-1,3-Dichloropropene	75	17.372	17.377	-0.005	90	11600	0.5005	0.4017	M
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.629	0.000	92	11839	0.5005	0.4077	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	164827	NC	NC	
64 n-Octane	43	17.934	17.939	-0.005	78	12285	0.5005	0.4635	
65 Toluene	92	17.955	17.960	-0.005	93	27132	0.5005	0.6166	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	164827	0.5005	3.75	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	95	15598	0.5005	0.4712	
67 1,1,2-Trichloroethane	83	18.859	18.865	-0.006	95	11392	0.5005	0.5407	
68 Tetrachloroethene	166	18.993	18.993	0.000	97	27070	0.5005	0.5113	
69 2-Hexanone	43	19.261	19.266	-0.006	96	13829	0.5005	0.4701	
71 Chlorodibromomethane	129	19.619	19.619	0.000	97	30572	0.5005	0.5075	
72 Ethylene Dibromide	107	19.913	19.913	0.000	97	22619	0.5005	0.5031	
S 73 Xylenes, Total	106				0		1.50	1.51	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	84	760597	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	97	38795	0.5005	0.5468	
76 Ethylbenzene	91	20.898	20.897	0.001	97	49323	0.5005	0.5013	
77 n-Nonane	57	20.935	20.940	-0.005	81	16890	0.5005	0.5232	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	42216	1.00	1.06	
79 o-Xylene	106	21.802	21.802	0.000	96	17668	0.5005	0.4508	
80 Styrene	104	21.839	21.839	0.000	95	29128	0.5005	0.4741	
$ 83 4-Bromofluorobenzene	95		22.197				ND	ND	
81 Bromoform	173	22.197	22.203	-0.006	98	31914	0.5005	0.4884	
82 Isopropylbenzene	105	22.353	22.353	0.000	95	55872	0.5005	0.4656	
84 1,1,2,2-Tetrachloroethane	83	22.893	22.898	-0.005	99	33874	0.5005	0.5578	
85 N-Propylbenzene	91	22.973	22.973	0.000	100	73258	0.5005	0.5069	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	94	28494	0.5005	0.5938	
87 n-Decane	57	23.075	23.075	0.000	94	24452	0.5005	0.4925	
88 4-Ethyltoluene	105	23.139	23.139	0.000	98	69184	0.5005	0.5211	
89 2-Chlorotoluene	91	23.176	23.176	0.000	95	59985	0.5005	0.5384	
90 1,3,5-Trimethylbenzene	105	23.230	23.235	-0.005	93	58478	0.5005	0.5096	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	91	22993	0.5005	0.4049	
92 tert-Butylbenzene	119	23.717	23.722	-0.005	95	55426	0.5005	0.4887	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	97	56298	0.5005	0.4952	
94 sec-Butylbenzene	105	24.059	24.059	0.000	99	80927	0.5005	0.5086	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	67179	0.5005	0.4786	
96 1,3-Dichlorobenzene	146	24.332	24.337	-0.005	95	51357	0.5005	0.5453	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	47706	0.5005	0.5134	
98 Benzyl chloride	91	24.701	24.706	-0.005	99	42472	0.5005	0.4318	
99 Undecane	57	24.894	24.888	0.006	90	26148	0.5005	0.4966	
100 n-Butylbenzene	91	24.920	24.920	0.000	97	70076	0.5005	0.5843	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	98	48869	0.5005	0.5383	
102 Dodecane	57	26.777	26.777	0.000	94	17548	0.5005	0.3689	
103 1,2,4-Trichlorobenzene	180	28.130	28.130	0.000	93	31687	0.5005	0.4177	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	99	36660	0.5005	0.5100	
105 Naphthalene	128	28.767	28.767	0.000	99	61713	0.5005	0.4291	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	95	31703	0.5005	0.4927	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL2w_00196	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

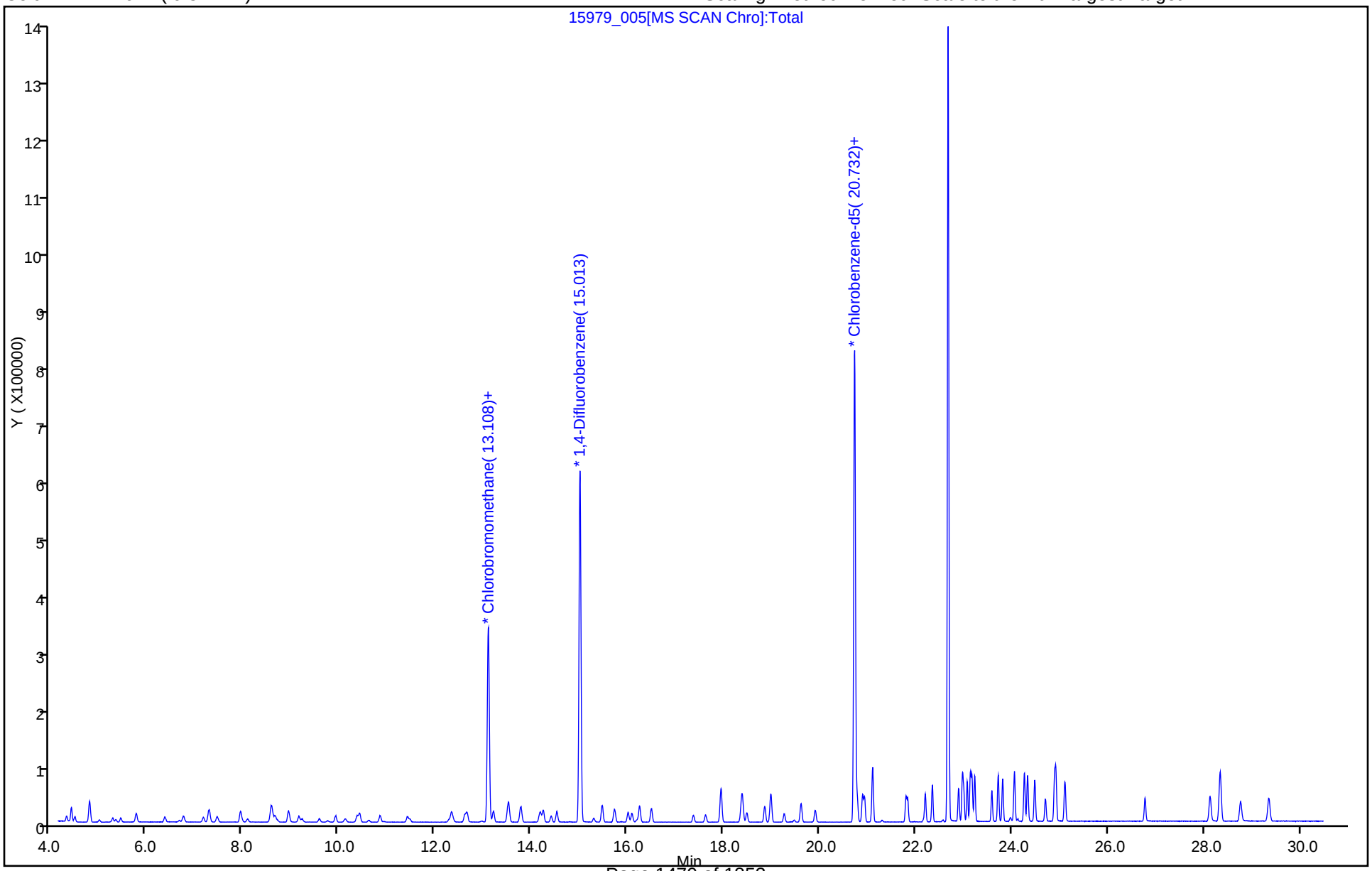
Report Date: 29-Sep-2015 12:09:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d

Injection Date:	28-Sep-2015 17:30:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

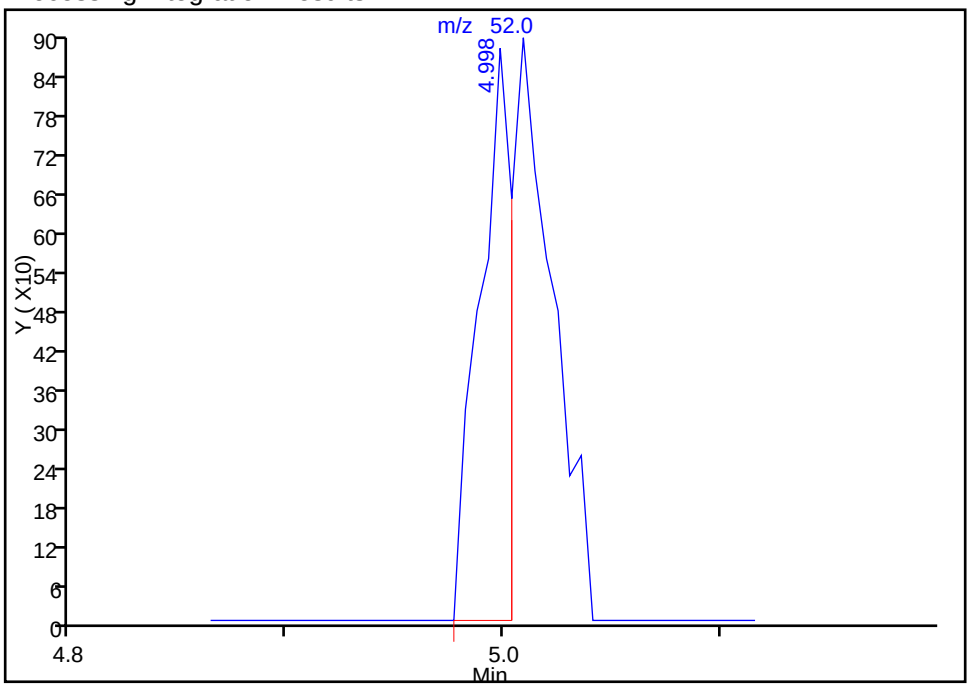
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d
Injection Date: 28-Sep-2015 17:30:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

5 Chloromethane, CAS: 74-87-3

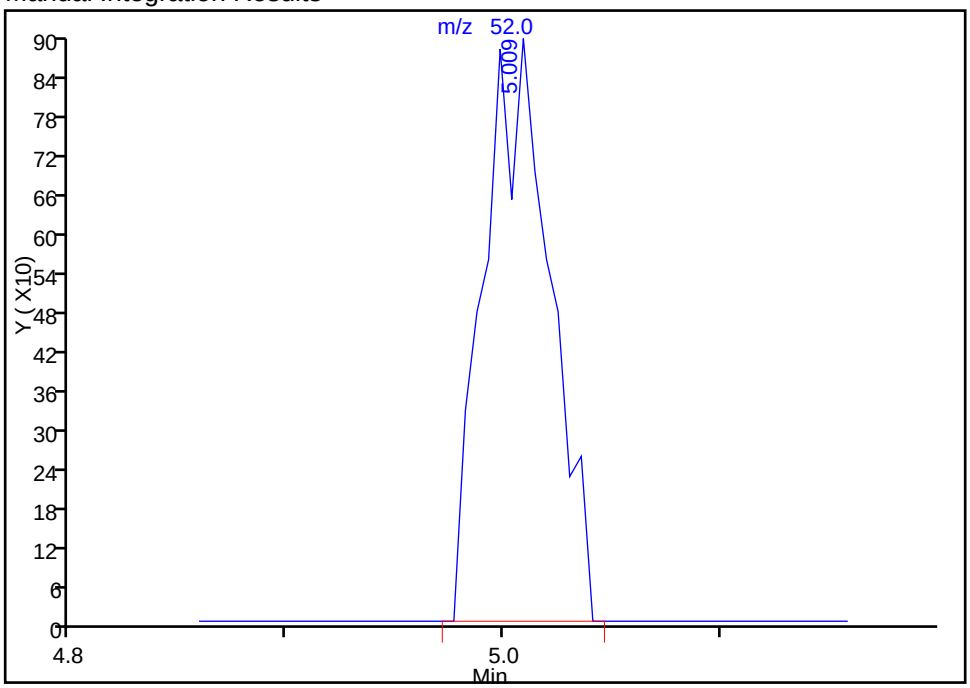
Processing Integration Results

RT: 5.00
Area: 924
Amount: 0.572474
Amount Units: ppb v/v



Manual Integration Results

RT: 5.01
Area: 1916
Amount: 0.572474
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:13:19
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

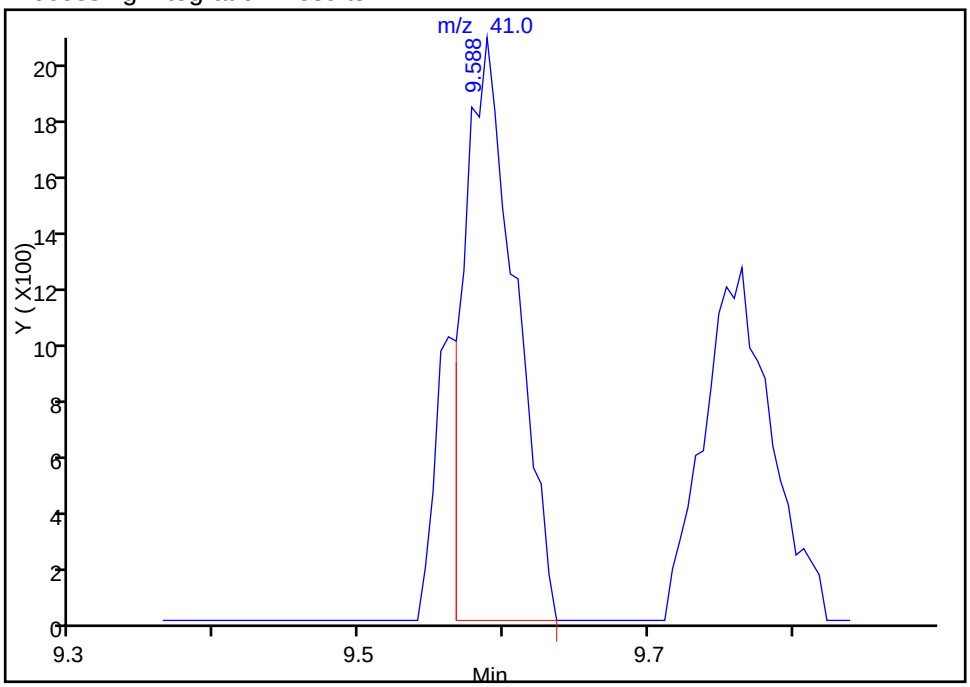
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d				
Injection Date:	28-Sep-2015 17:30:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 3-Chloro-1-propene, CAS: 107-05-1

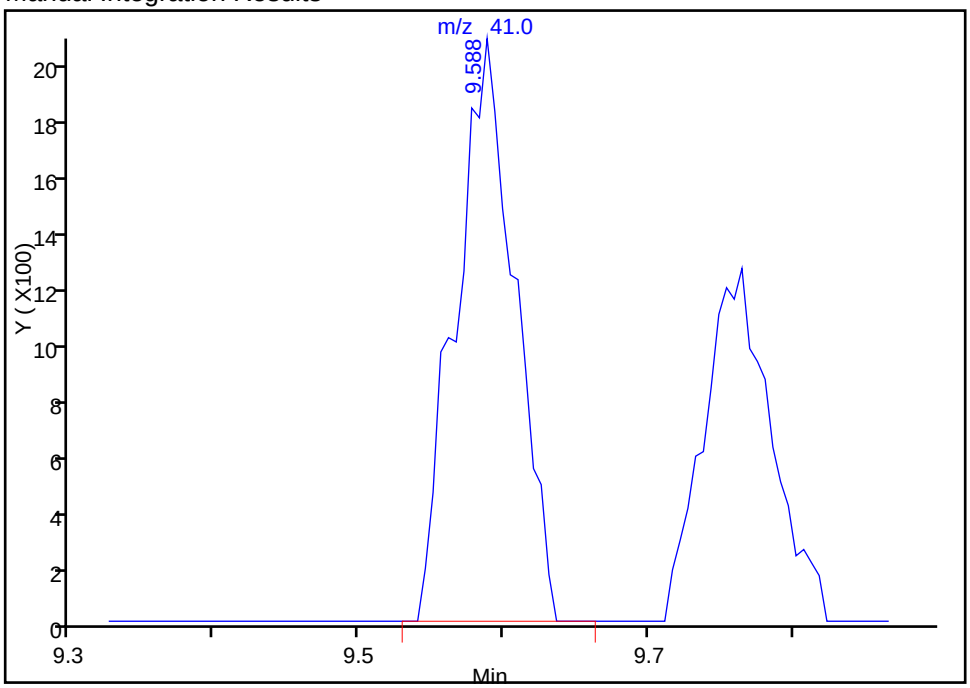
Processing Integration Results

RT: 9.59
Area: 4949
Amount: 0.398454
Amount Units: ppb v/v



Manual Integration Results

RT: 9.59
Area: 5771
Amount: 0.456020
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:13:19
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

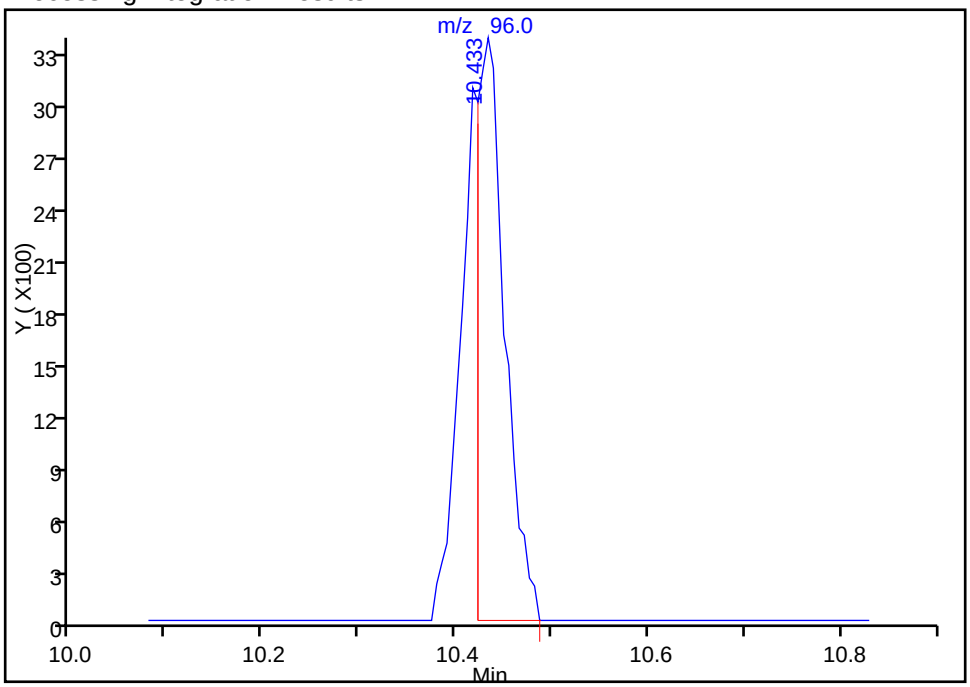
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d				
Injection Date:	28-Sep-2015 17:30:30	Instrument ID:	CHW.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

31 trans-1,2-Dichloroethene, CAS: 156-60-5

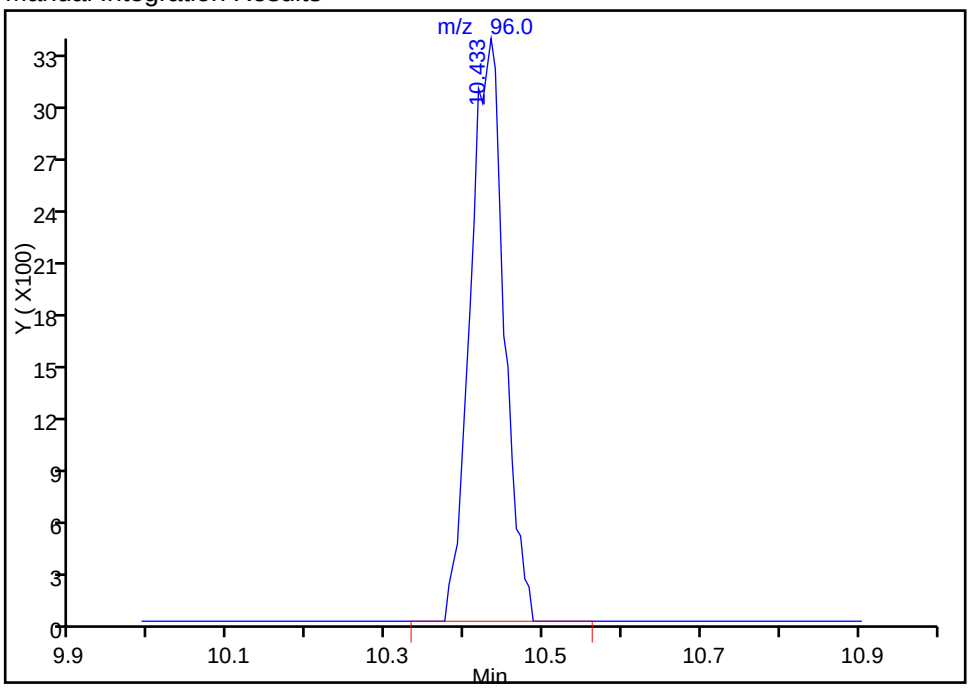
Processing Integration Results

RT: 10.43
Area: 6623
Amount: 0.502527
Amount Units: ppb v/v



Manual Integration Results

RT: 10.43
Area: 9969
Amount: 0.502527
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:13:19
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

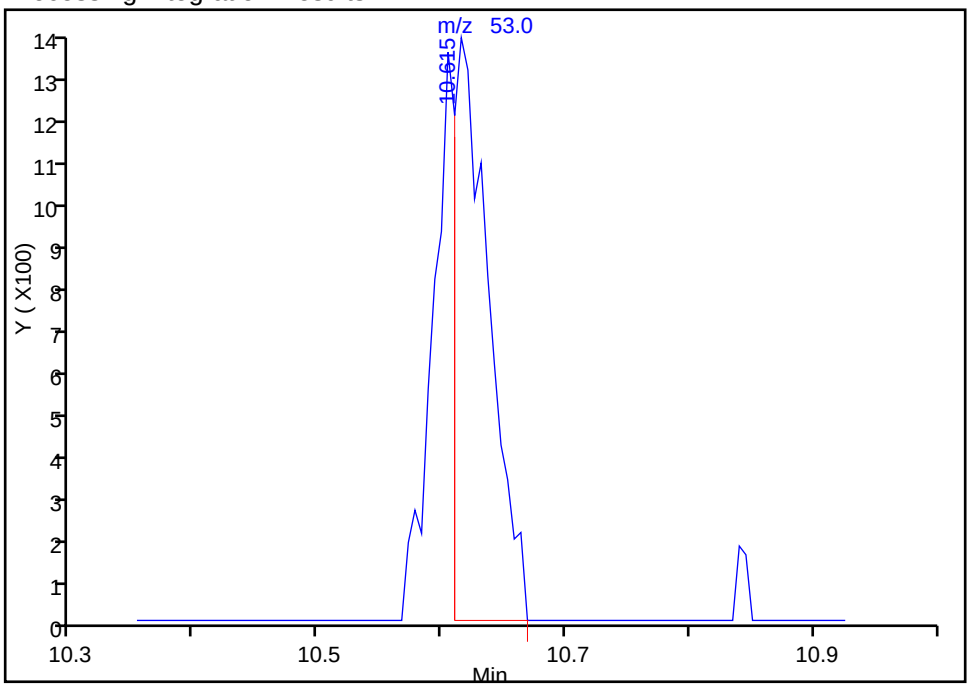
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d
Injection Date: 28-Sep-2015 17:30:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

32 Acrylonitrile, CAS: 107-13-1

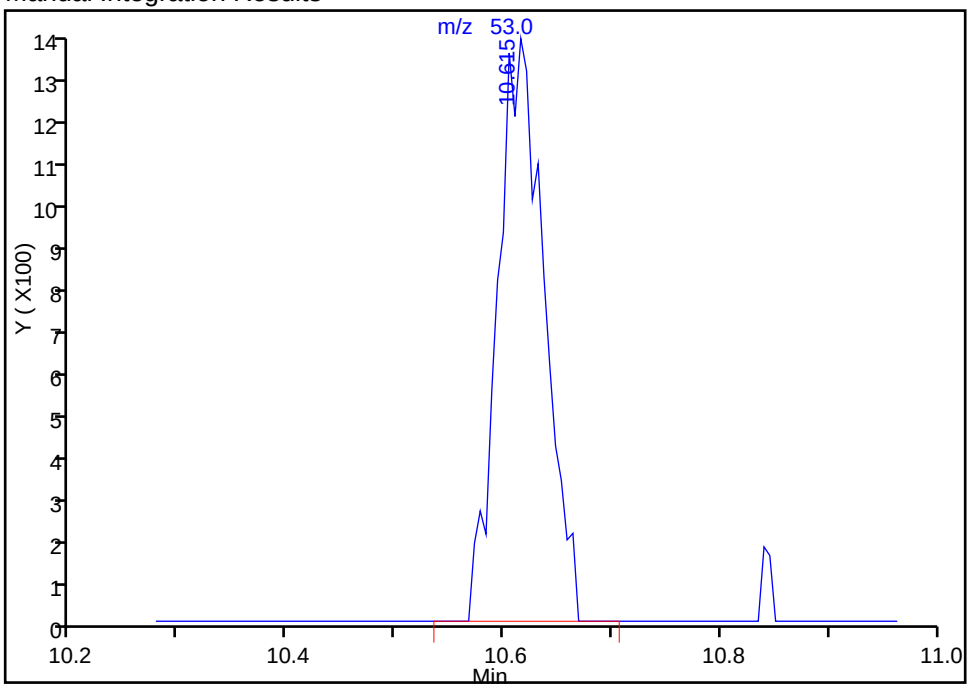
Processing Integration Results

RT: 10.62
Area: 2644
Amount: 0.319584
Amount Units: ppb v/v



Manual Integration Results

RT: 10.62
Area: 3968
Amount: 0.455349
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:13:19
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

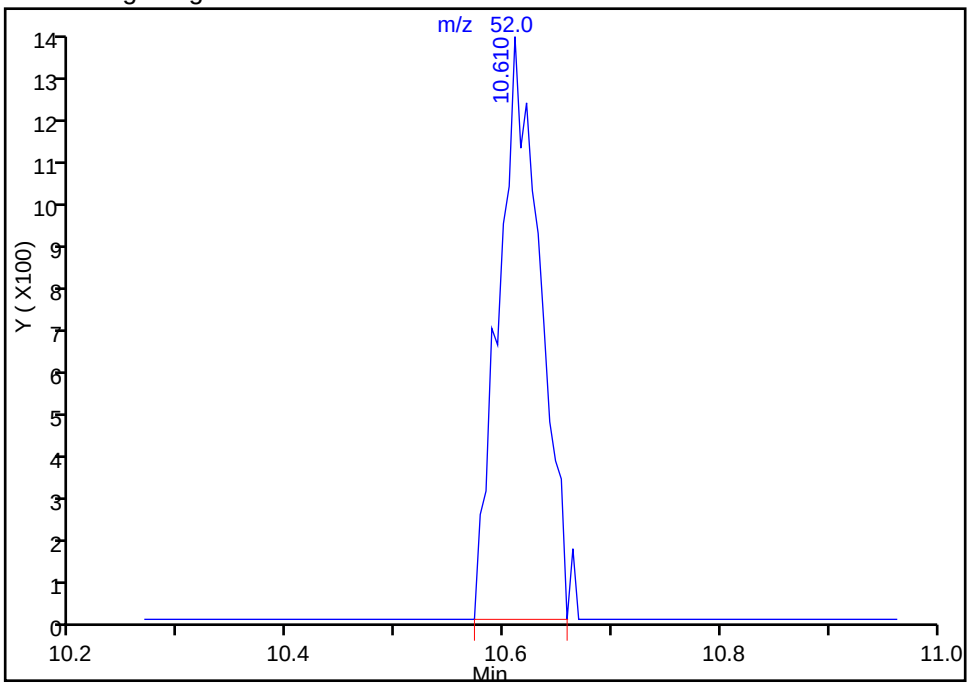
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d
Injection Date: 28-Sep-2015 17:30:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

32 Acrylonitrile, CAS: 107-13-1

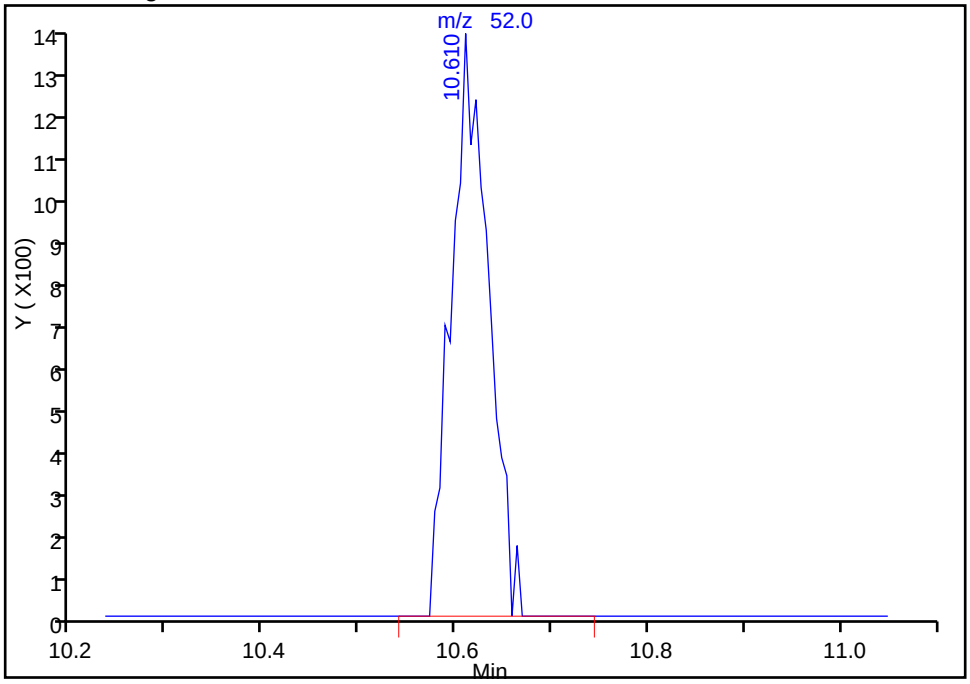
Processing Integration Results

RT: 10.61
Area: 3472
Amount: 0.319584
Amount Units: ppb v/v



Manual Integration Results

RT: 10.61
Area: 3522
Amount: 0.455349
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:13:19
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

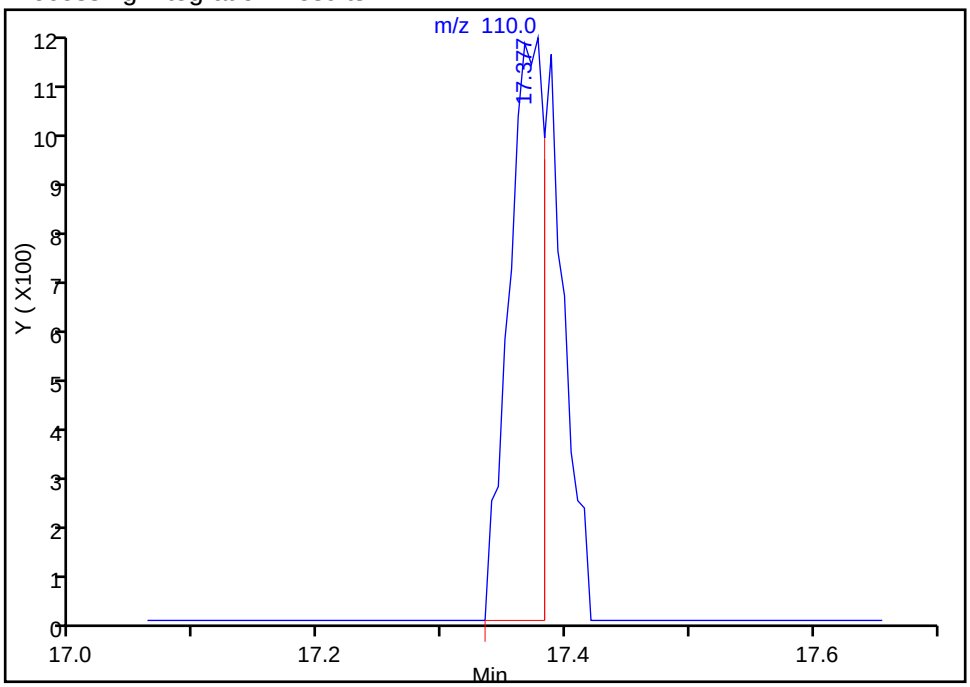
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_005.d
Injection Date: 28-Sep-2015 17:30:30 Instrument ID: CHW.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

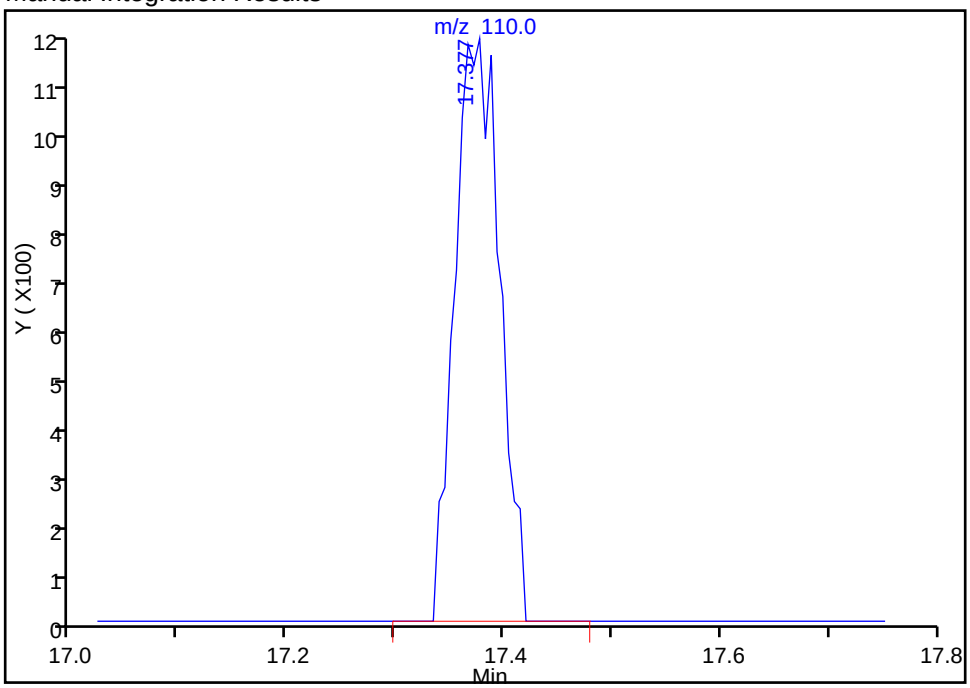
Processing Integration Results

RT: 17.38
Area: 2365
Amount: 0.401704
Amount Units: ppb v/v



Manual Integration Results

RT: 17.38
Area: 3460
Amount: 0.401704
Amount Units: ppb v/v



Reviewer: daiglep, 29-Sep-2015 09:13:19
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_006.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Sep-2015 18:19:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-006
Misc. Info.: ic-04
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:53 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:14:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	97	50170	4.99	5.29	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	99	307612	4.99	4.88	
3 Chlorodifluoromethane	51	4.501	4.501	-0.001	96	126325	4.99	4.97	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.805	4.806	-0.001	83	266255	4.99	4.90	
5 Chloromethane	50	5.014	5.009	0.005	99	61653	4.99	5.01	
6 Butane	43	5.292	5.292	0.000	95	90236	4.99	5.03	
7 Vinyl chloride	62	5.356	5.357	-0.001	98	75223	4.99	5.20	
8 Butadiene	54	5.463	5.458	0.005	92	50098	4.99	5.04	
10 Bromomethane	94	6.378	6.373	0.005	99	92051	4.99	4.95	
9 BFB									
11 Chloroethane	64	6.678	6.678	0.000	99	47149	4.99	4.91	
12 2-Methylbutane	43	6.763	6.769	-0.006	88	75324	4.99	5.17	
13 Vinyl bromide	106	7.175	7.175	0.000	99	108406	4.99	4.74	
14 Trichlorofluoromethane	101	7.293	7.298	-0.005	98	339356	4.99	4.74	
16 Pentane	43	7.470	7.464	0.006	99	108868	4.99	5.08	
17 Ethanol	45	7.951	7.951	0.000	99	61305	10.0	10.1	
18 Ethyl ether	59	8.090	8.090	0.000	91	54611	4.99	5.09	
19 Acrolein	56	8.582	8.582	0.000	97	20257	4.99	5.12	
20 1,1,2-Trichloro-1,2,2-trif	101	8.593	8.598	-0.005	94	224771	4.99	4.85	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	95	101761	4.99	4.95	
22 Acetone	43	8.946	8.946	0.000	97	115506	4.99	5.20	
23 Carbon disulfide	76	9.165	9.166	-0.001	98	240290	4.99	4.86	
24 Isopropyl alcohol	45	9.219	9.224	-0.005	99	83934	4.99	4.74	
25 3-Chloro-1-propene	41	9.593	9.594	-0.001	95	75385	4.99	5.23	
26 Acetonitrile	41	9.759	9.759	0.000	99	42406	4.99	5.28	
27 Methylene Chloride	49	9.930	9.931	-0.001	82	80529	4.99	4.94	
28 2-Methyl-2-propanol	59	10.123	10.118	0.005	95	137480	4.99	4.39	
S 30 1,2-Dichloroethene, Total	61				0		9.99	10.1	
29 Methyl tert-butyl ether	73	10.374	10.375	-0.001	96	272710	4.99	5.00	
31 trans-1,2-Dichloroethene	61	10.433	10.433	0.000	91	126586	4.99	5.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.621	10.615	0.006	95	49846	4.99	5.03	
33 Hexane	57	10.856	10.856	0.000	89	116943	4.99	5.41	
34 1,1-Dichloroethane	63	11.428	11.428	0.000	99	160055	4.99	5.01	
35 Vinyl acetate	43	11.477	11.477	0.000	99	147690	4.99	4.75	
37 cis-1,2-Dichloroethene	96	12.616	12.621	-0.005	83	115102	4.99	4.99	
38 2-Butanone (MEK)	72	12.659	12.659	0.000	98	48197	4.99	4.69	
39 Ethyl acetate	88	12.664	12.670	-0.006	94	9077	4.99	4.82	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	72	198532	10.0	10.0	
41 Tetrahydrofuran	42	13.114	13.114	0.000	83	71283	4.99	5.00	
42 Chloroform	83	13.215	13.221	-0.006	95	237422	4.99	4.85	
43 Cyclohexane	84	13.515	13.509	0.006	91	140111	4.99	5.23	
44 1,1,1-Trichloroethane	97	13.536	13.536	0.000	93	277225	4.99	4.83	
45 Carbon tetrachloride	117	13.782	13.788	-0.006	97	298835	4.99	4.73	
46 Isooctane	57	14.183	14.189	-0.006	98	397008	4.99	5.47	
47 Benzene	78	14.253	14.253	0.000	94	318852	4.99	5.09	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	99	146306	4.99	4.87	
49 n-Heptane	43	14.531	14.537	-0.006	82	127420	4.99	5.64	
A 51 GRO	1	14.922	(6.759-23.085)		0	45534883	4.99	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	925052	10.0	10.0	
52 n-Butanol	56	15.296	15.296	0.000	85	35569	4.99	4.40	
53 Trichloroethene	95	15.483	15.484	-0.001	96	161292	4.99	5.02	
54 1,2-Dichloropropane	63	16.018	16.019	0.000	89	101276	4.99	5.07	
55 Methyl methacrylate	69	16.099	16.099	0.000	92	105491	4.99	4.95	
56 1,4-Dioxane	88	16.190	16.195	-0.005	87	54156	4.99	4.94	
57 Dibromomethane	174	16.259	16.259	0.000	88	203168	4.99	4.76	
58 Dichlorobromomethane	83	16.500	16.505	-0.005	98	268528	4.99	4.92	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	82965093	4.99	1550.4	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	165612	4.99	5.06	
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.629	0.000	92	169908	4.99	5.16	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	1882051	NC	NC	
64 n-Octane	43	17.934	17.939	-0.005	84	182697	4.99	6.08	
65 Toluene	92	17.955	17.960	-0.005	93	263658	4.99	5.20	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	1882051	4.99	37.1	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	187700	4.99	5.00	
67 1,1,2-Trichloroethane	83	18.864	18.865	-0.001	95	121644	4.99	5.01	
68 Tetrachloroethene	166	18.988	18.993	-0.005	96	297193	4.99	4.88	
69 2-Hexanone	43	19.260	19.266	-0.006	98	167116	4.99	4.93	
71 Chlorodibromomethane	129	19.619	19.619	0.000	98	336769	4.99	4.86	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	255019	4.99	4.93	
S 73 Xylenes, Total	106				0		15.0	16.5	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	875751	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	398678	4.99	4.88	
76 Ethylbenzene	91	20.897	20.897	0.000	97	597512	4.99	5.27	
77 n-Nonane	57	20.940	20.940	0.000	81	212879	4.99	5.73	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	504793	9.99	11.0	
79 o-Xylene	106	21.801	21.802	-0.001	99	244613	4.99	5.42	
80 Styrene	104	21.839	21.839	0.000	97	396539	4.99	5.61	
$ 83 4-Bromofluorobenzene	95	22.203	22.197	0.006	26	438	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	376477	4.99	5.00	
82 Isopropylbenzene	105	22.347	22.353	-0.006	95	752732	4.99	5.45	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	99	355686	4.99	5.09	
85 N-Propylbenzene	91	22.978	22.973	0.005	99	905094	4.99	5.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	94	279641	4.99	5.06	
87 n-Decane	57	23.075	23.075	0.000	93	316055	4.99	5.53	
88 4-Ethyltoluene	105	23.144	23.139	0.005	97	816256	4.99	5.34	
89 2-Chlorotoluene	91	23.176	23.176	0.000	94	656643	4.99	5.12	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	688985	4.99	5.21	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	92	353912	4.99	5.41	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	700422	4.99	5.36	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	697286	4.99	5.33	
94 sec-Butylbenzene	105	24.059	24.059	0.000	100	1010019	4.99	5.51	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	888596	4.99	5.50	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	95	546704	4.99	5.04	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	97	535922	4.99	5.01	
98 Benzyl chloride	91	24.706	24.706	0.000	100	594103	4.99	5.25	
99 Undecane	57	24.888	24.888	0.000	90	348392	4.99	5.75	
100 n-Butylbenzene	91	24.920	24.920	0.000	98	764712	4.99	5.54	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	98	520675	4.99	4.98	
102 Dodecane	57	26.771	26.777	-0.006	97	288450	4.99	5.27	
103 1,2,4-Trichlorobenzene	180	28.136	28.130	0.006	94	383594	4.99	4.39	
104 Hexachlorobutadiene	225	28.349	28.344	0.005	97	407113	4.99	4.92	
105 Naphthalene	128	28.767	28.767	0.000	99	687895	4.99	4.15	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	96	347245	4.99	4.69	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15CAL3w_00153	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

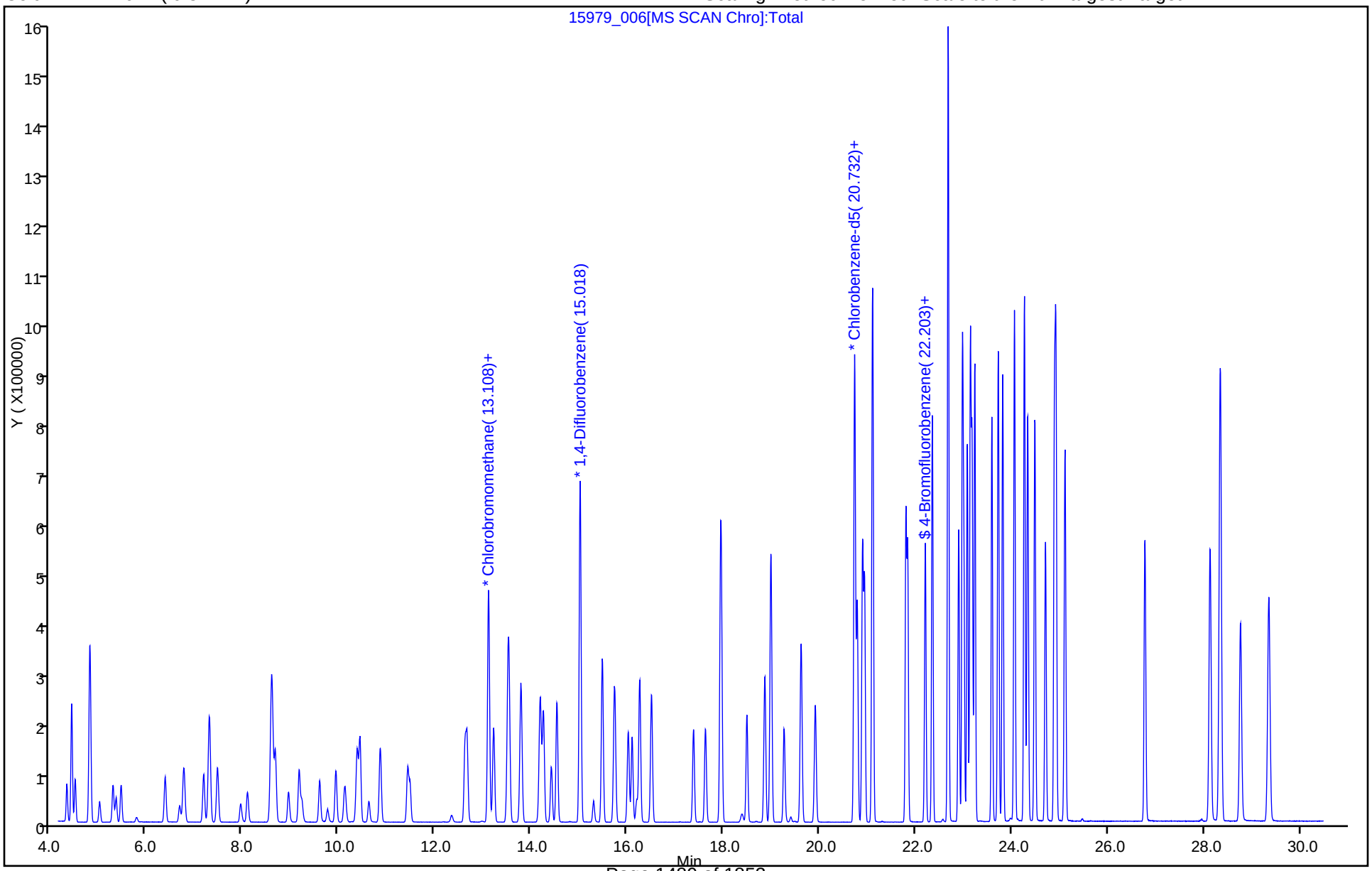
Report Date: 29-Sep-2015 12:09:54 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_006.d

Injection Date:	28-Sep-2015 18:19:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_007.d
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Sep-2015 19:07:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-007
Misc. Info.: icis-05
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:55 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:06:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	98	105214	10.0	10.4	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	99	664240	10.0	9.92	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	96	266722	10.0	9.88	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.806	4.806	0.000	97	568584	10.0	9.85	
5 Chloromethane	50	5.009	5.009	0.000	99	128696	10.0	9.84	
6 Butane	43	5.292	5.292	0.000	95	192672	10.0	10.1	
7 Vinyl chloride	62	5.357	5.357	0.000	98	162422	10.0	10.6	
8 Butadiene	54	5.458	5.458	0.000	92	109411	10.0	10.4	
10 Bromomethane	94	6.373	6.373	0.000	99	198832	10.0	10.1	
9 BFB									
11 Chloroethane	64	6.678	6.678	0.000	99	101174	10.0	9.92	
12 2-Methylbutane	43	6.769	6.769	0.000	88	163657	10.0	10.6	
13 Vinyl bromide	106	7.175	7.175	0.000	98	246799	10.0	10.2	
14 Trichlorofluoromethane	101	7.298	7.298	0.000	98	742671	10.0	9.77	
16 Pentane	43	7.464	7.464	0.000	99	238174	10.0	10.5	
17 Ethanol	45	7.951	7.951	0.000	100	96817	15.0	15.0	
18 Ethyl ether	59	8.090	8.090	0.000	91	122832	10.0	10.8	
19 Acrolein	56	8.582	8.582	0.000	96	45187	10.0	10.8	
20 1,1,2-Trichloro-1,2,2-trif	101	8.598	8.598	0.000	93	488443	10.0	9.92	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	95	227566	10.0	10.4	
22 Acetone	43	8.946	8.946	0.000	97	241855	10.0	10.3	
23 Carbon disulfide	76	9.166	9.166	0.000	99	522027	10.0	9.93	
24 Isopropyl alcohol	45	9.224	9.224	0.000	99	191415	10.0	10.2	
25 3-Chloro-1-propene	41	9.594	9.594	0.000	95	166032	10.0	10.8	
26 Acetonitrile	41	9.759	9.759	0.000	99	87636	10.0	10.3	
27 Methylene Chloride	49	9.931	9.931	0.000	81	168555	10.0	9.74	
28 2-Methyl-2-propanol	59	10.118	10.118	0.000	94	326370	10.0	9.81	
S 30 1,2-Dichloroethene, Total	61				0		20.0	20.9	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	97	630214	10.0	10.9	
31 trans-1,2-Dichloroethene	61	10.433	10.433	0.000	91	274398	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.615	10.615	0.000	94	109109	10.0	10.4	
33 Hexane	57	10.856	10.856	0.000	89	255621	10.0	11.1	
34 1,1-Dichloroethane	63	11.428	11.428	0.000	99	344947	10.0	10.2	
35 Vinyl acetate	43	11.477	11.477	0.000	99	344643	10.0	10.4	
37 cis-1,2-Dichloroethene	96	12.621	12.621	0.000	95	255416	10.0	10.4	
38 2-Butanone (MEK)	72	12.659	12.659	0.000	98	105267	10.0	9.65	
39 Ethyl acetate	88	12.670	12.670	0.000	96	20203	10.0	10.1	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	84	210941	10.0	10.0	
41 Tetrahydrofuran	42	13.114	13.114	0.000	83	157621	10.0	10.5	
42 Chloroform	83	13.221	13.221	0.000	95	514583	10.0	9.90	
43 Cyclohexane	84	13.509	13.509	0.000	90	309296	10.0	11.0	
44 1,1,1-Trichloroethane	97	13.536	13.536	0.000	93	604891	10.0	10.0	
45 Carbon tetrachloride	117	13.788	13.788	0.000	97	617232	10.0	9.30	
46 Isooctane	57	14.189	14.189	0.000	98	869545	10.0	11.4	
47 Benzene	78	14.253	14.253	0.000	94	679533	10.0	10.3	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	318495	10.0	10.1	
49 n-Heptane	43	14.537	14.537	0.000	82	277244	10.0	11.7	
A 51 GRO	1	14.922	(6.759-23.085)		0	94924764	10.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	972089	10.0	10.0	
52 n-Butanol	56	15.296	15.296	0.000	85	84894	10.0	10.0	
53 Trichloroethene	95	15.484	15.484	0.000	95	354504	10.0	10.5	
54 1,2-Dichloropropane	63	16.019	16.019	0.000	89	217758	10.0	10.4	
55 Methyl methacrylate	69	16.099	16.099	0.000	93	239048	10.0	10.7	
56 1,4-Dioxane	88	16.195	16.195	0.000	87	118704	10.0	10.3	
57 Dibromomethane	174	16.259	16.259	0.000	87	453860	10.0	10.1	
58 Dichlorobromomethane	83	16.505	16.505	0.000	98	582154	10.0	10.1	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	179026511	10.0	3183.6	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	90	385151	10.0	11.2	
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.629	0.000	92	380611	10.0	11.0	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	3954391	NC	NC	
64 n-Octane	43	17.939	17.939	0.000	81	377548	10.0	12.0	
65 Toluene	92	17.960	17.960	0.000	94	560433	10.0	10.6	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	3954391	10.0	74.4	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	427074	10.0	10.8	
67 1,1,2-Trichloroethane	83	18.865	18.865	0.000	94	260649	10.0	10.2	
68 Tetrachloroethene	166	18.993	18.993	0.000	96	667197	10.0	10.4	
69 2-Hexanone	43	19.266	19.266	0.000	98	375331	10.0	10.6	
71 Chlorodibromomethane	129	19.619	19.619	0.000	97	741256	10.0	10.2	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	563775	10.0	10.4	
S 73 Xylenes, Total	106				0		30.0	33.5	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	918256	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	866332	10.0	10.1	
76 Ethylbenzene	91	20.897	20.897	0.000	96	1292272	10.0	10.9	
77 n-Nonane	57	20.940	20.940	0.000	79	439794	10.0	11.3	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	1057335	20.0	22.0	
79 o-Xylene	106	21.802	21.802	0.000	99	543889	10.0	11.5	
80 Styrene	104	21.839	21.839	0.000	97	844426	10.0	11.4	
$ 83 4-Bromofluorobenzene	95	22.197	22.197	0.000	26	1245	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	821521	10.0	10.4	
82 Isopropylbenzene	105	22.353	22.353	0.000	95	1635539	10.0	11.3	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	760254	10.0	10.4	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	1948260	10.0	11.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	94	589825	10.0	10.2	
87 n-Decane	57	23.075	23.075	0.000	92	657595	10.0	11.0	
88 4-Ethyltoluene	105	23.139	23.139	0.000	97	1764611	10.0	11.0	
89 2-Chlorotoluene	91	23.176	23.176	0.000	94	1416619	10.0	10.5	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	1503462	10.0	10.9	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	92	808203	10.0	11.8	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	1516591	10.0	11.1	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1522005	10.0	11.1	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	2156571	10.0	11.2	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	1944204	10.0	11.5	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	95	1202432	10.0	10.6	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	1207607	10.0	10.8	
98 Benzyl chloride	91	24.706	24.706	0.000	100	1358918	10.0	11.4	
99 Undecane	57	24.888	24.888	0.000	89	712468	10.0	11.2	
100 n-Butylbenzene	91	24.920	24.920	0.000	97	1579128	10.0	10.9	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1157824	10.0	10.6	
102 Dodecane	57	26.777	26.777	0.000	96	719204	10.0	12.5	
103 1,2,4-Trichlorobenzene	180	28.130	28.130	0.000	94	1019558	10.0	11.1	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	97	959633	10.0	11.1	
105 Naphthalene	128	28.767	28.767	0.000	99	1999314	10.0	11.5	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	96	925837	10.0	11.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15CAL4w_00494	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

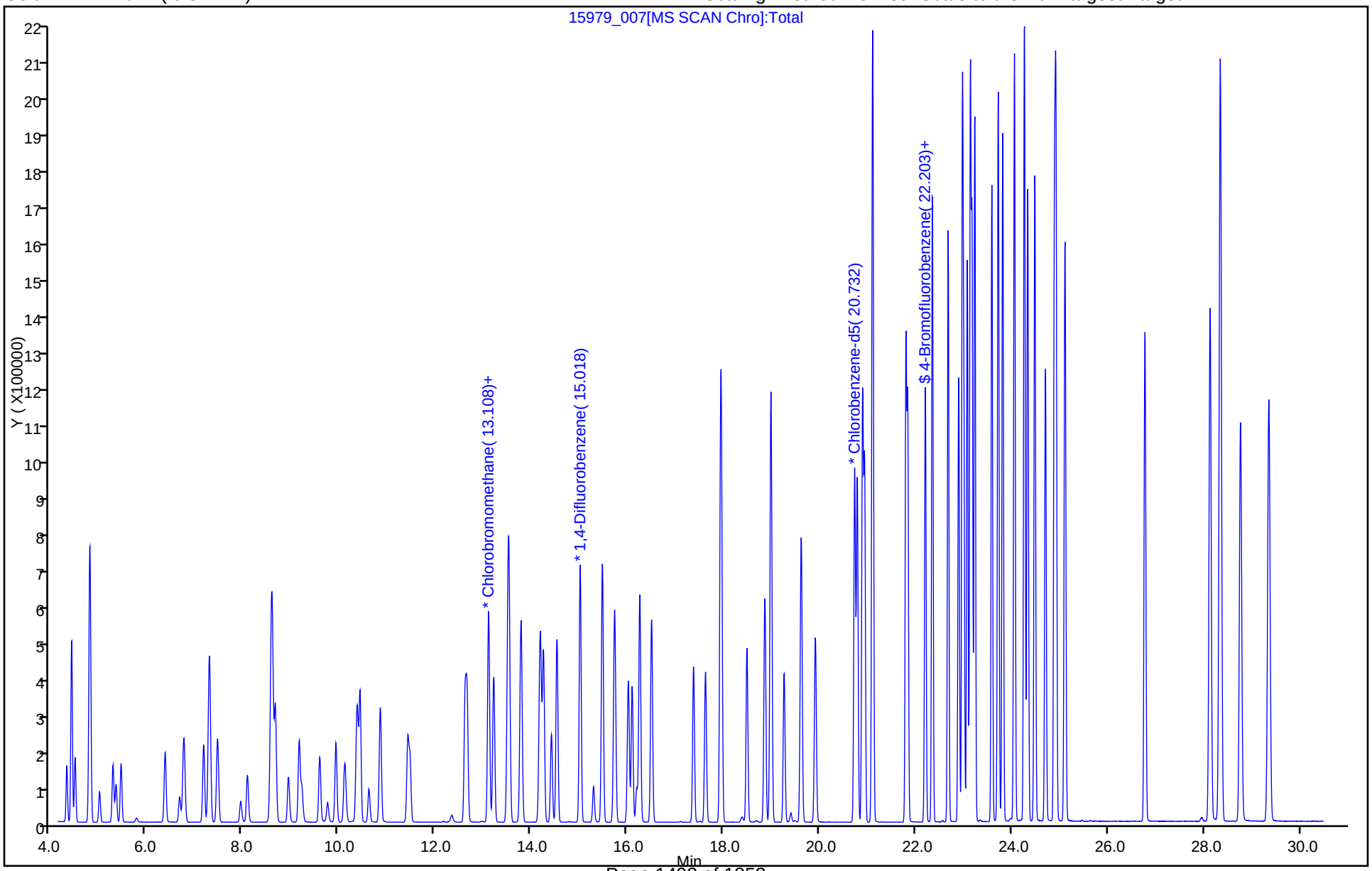
Report Date: 29-Sep-2015 12:09:56 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_007.d

Injection Date:	28-Sep-2015 19:07:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	icis			Worklist Smp#:	7
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_008.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Sep-2015 19:55:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-008
Misc. Info.: ic-06
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:56 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:15:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	97	150784	15.0	13.7	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	99	999104	15.0	13.7	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	396160	15.0	13.5	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.811	4.806	0.005	97	844527	15.0	13.4	
5 Chloromethane	50	5.014	5.009	0.005	98	189827	15.0	13.3	
6 Butane	43	5.292	5.292	0.000	95	277506	15.0	13.4	
7 Vinyl chloride	62	5.357	5.357	0.000	98	237246	15.0	14.2	
8 Butadiene	54	5.458	5.458	0.000	93	159128	15.0	13.8	
10 Bromomethane	94	6.378	6.373	0.005	98	287456	15.0	13.4	
9 BFB									
11 Chloroethane	64	6.678	6.678	0.000	99	152342	15.0	13.7	
12 2-Methylbutane	43	6.769	6.769	0.000	87	240217	15.0	14.3	
13 Vinyl bromide	106	7.181	7.175	0.006	98	387172	15.0	14.6	
14 Trichlorofluoromethane	101	7.298	7.298	0.000	98	1135370	15.0	13.7	
16 Pentane	43	7.464	7.464	0.000	99	353801	15.0	14.3	
17 Ethanol	45	7.951	7.951	0.000	100	125369	20.0	17.9	
18 Ethyl ether	59	8.096	8.090	0.006	91	183798	15.0	14.8	
19 Acrolein	56	8.582	8.582	0.000	97	64931	15.0	14.2	
20 1,1,2-Trichloro-1,2,2-trif	101	8.598	8.598	0.000	93	738065	15.0	13.8	
21 1,1-Dichloroethene	96	8.673	8.668	0.005	94	352276	15.0	14.8	
22 Acetone	43	8.941	8.946	-0.005	97	345810	15.0	13.5	
23 Carbon disulfide	76	9.171	9.166	0.005	99	788654	15.0	13.8	
24 Isopropyl alcohol	45	9.224	9.224	0.000	99	291658	15.0	14.2	
25 3-Chloro-1-propene	41	9.599	9.594	0.005	94	252334	15.0	15.1	
26 Acetonitrile	41	9.759	9.759	0.000	99	129043	15.0	13.9	
27 Methylene Chloride	49	9.936	9.931	0.005	80	249624	15.0	13.2	
28 2-Methyl-2-propanol	59	10.118	10.118	0.000	94	513064	15.0	14.2	
S 30 1,2-Dichloroethene, Total	61				0		30.0	29.0	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	95	954439	15.0	15.1	
31 trans-1,2-Dichloroethene	61	10.433	10.433	0.000	90	408300	15.0	14.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.621	10.615	0.006	94	162303	15.0	14.1	
33 Hexane	57	10.856	10.856	0.000	93	382918	15.0	15.3	
34 1,1-Dichloroethane	63	11.434	11.428	0.006	99	518279	15.0	14.0	
35 Vinyl acetate	43	11.477	11.477	0.000	99	500877	15.0	13.9	
37 cis-1,2-Dichloroethene	96	12.621	12.621	0.000	86	390229	15.0	14.6	
38 2-Butanone (MEK)	72	12.659	12.659	0.000	99	155887	15.0	13.1	
39 Ethyl acetate	88	12.670	12.670	0.000	97	30210	15.0	13.9	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	73	229699	10.0	10.0	
41 Tetrahydrofuran	42	13.108	13.114	-0.006	87	228591	15.0	13.8	
42 Chloroform	83	13.221	13.221	0.000	95	779260	15.0	13.8	
43 Cyclohexane	84	13.515	13.509	0.006	91	470239	15.0	15.1	
44 1,1,1-Trichloroethane	97	13.536	13.536	0.000	93	925922	15.0	13.9	
45 Carbon tetrachloride	117	13.788	13.788	0.000	97	1042115	15.0	14.2	
46 Isooctane	57	14.189	14.189	0.000	98	1297584	15.0	15.4	
47 Benzene	78	14.253	14.253	0.000	94	1018394	15.0	14.0	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	485358	15.0	13.9	
49 n-Heptane	43	14.537	14.537	0.000	81	404986	15.0	15.4	
A 51 GRO	1	14.922	(6.759-23.085)		0	140001159	15.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	1075916	10.0	10.0	
52 n-Butanol	56	15.296	15.296	0.000	85	136010	15.0	14.5	
53 Trichloroethene	95	15.484	15.484	0.000	95	539858	15.0	14.4	
54 1,2-Dichloropropane	63	16.024	16.019	0.006	88	326458	15.0	14.0	
55 Methyl methacrylate	69	16.099	16.099	0.000	91	361115	15.0	14.6	
56 1,4-Dioxane	88	16.195	16.195	0.000	86	178755	15.0	14.0	
57 Dibromomethane	174	16.259	16.259	0.000	86	695193	15.0	14.0	
58 Dichlorobromomethane	83	16.505	16.505	0.000	98	883924	15.0	13.9	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	263849591	15.0	4239.2	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	589949	15.0	15.5	
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.629	0.000	91	560828	15.0	14.7	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	5675135	NC	NC	
64 n-Octane	43	17.939	17.939	0.000	84	526136	15.0	15.1	
65 Toluene	92	17.960	17.960	0.000	94	810625	15.0	14.0	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	5675135	15.0	97.9	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	650069	15.0	14.9	
67 1,1,2-Trichloroethane	83	18.865	18.865	0.000	94	387181	15.0	13.9	
68 Tetrachloroethene	166	18.993	18.993	0.000	96	1014440	15.0	14.5	
69 2-Hexanone	43	19.266	19.266	0.000	99	563396	15.0	14.5	
71 Chlorodibromomethane	129	19.619	19.619	0.000	97	1134174	15.0	14.3	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	848773	15.0	14.3	
S 73 Xylenes, Total	106				0		45.0	44.7	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	1002325	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	1283862	15.0	13.7	
76 Ethylbenzene	91	20.897	20.897	0.000	96	1894167	15.0	14.6	
77 n-Nonane	57	20.940	20.940	0.000	79	621449	15.0	14.6	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	1522130	30.0	29.1	
79 o-Xylene	106	21.802	21.802	0.000	99	805328	15.0	15.6	
80 Styrene	104	21.839	21.839	0.000	97	1230957	15.0	15.2	
$ 83 4-Bromofluorobenzene	95	22.203	22.197	0.006	26	1311	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	1270129	15.0	14.8	
82 Isopropylbenzene	105	22.347	22.353	-0.006	95	2428632	15.0	15.4	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	1116467	15.0	14.0	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	2845827	15.0	14.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	93	859644	15.0	13.6	
87 n-Decane	57	23.075	23.075	0.000	92	928444	15.0	14.2	
88 4-Ethyltoluene	105	23.139	23.139	0.000	97	2597015	15.0	14.8	
89 2-Chlorotoluene	91	23.176	23.176	0.000	94	2096630	15.0	14.3	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	93	2254095	15.0	14.9	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	91	1218455	15.0	16.3	
92 tert-Butylbenzene	119	23.722	23.722	0.000	96	2260836	15.0	15.1	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	2262378	15.0	15.1	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	3159151	15.0	15.1	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	2854909	15.0	15.4	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	94	1797368	15.0	14.5	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	1821720	15.0	14.9	
98 Benzyl chloride	91	24.706	24.706	0.000	100	2025690	15.0	15.6	
99 Undecane	57	24.888	24.888	0.000	89	971342	15.0	14.0	
100 n-Butylbenzene	91	24.920	24.920	0.000	97	2240648	15.0	14.2	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1749247	15.0	14.6	
102 Dodecane	57	26.777	26.777	0.000	95	973793	15.0	15.5	
103 1,2,4-Trichlorobenzene	180	28.136	28.130	0.006	94	1543351	15.0	15.4	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	97	1441068	15.0	15.2	
105 Naphthalene	128	28.767	28.767	0.000	99	2888214	15.0	15.2	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	95	1374542	15.0	16.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15CAL5w_00056	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

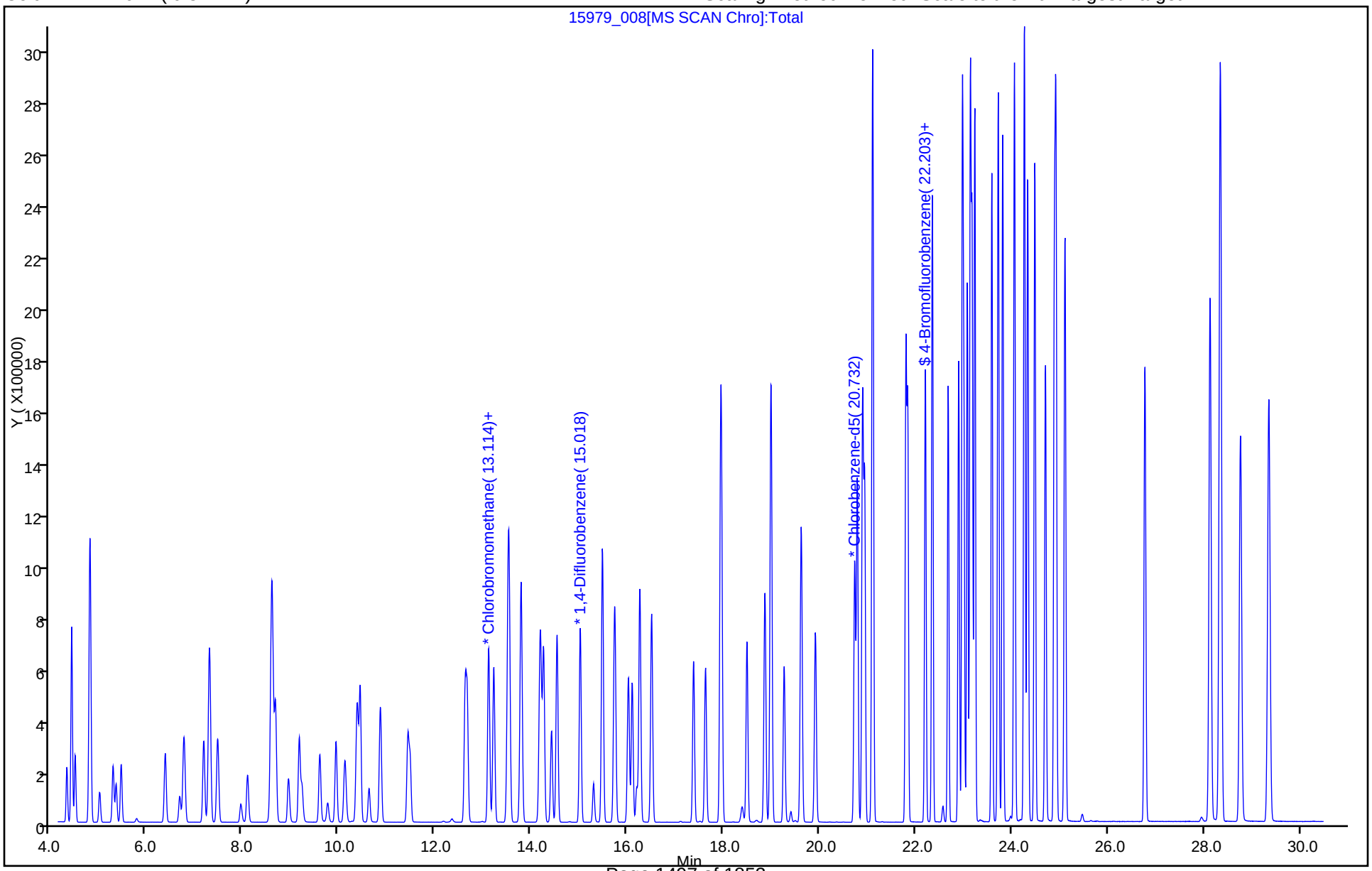
Report Date: 29-Sep-2015 12:09:57 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_008.d

Injection Date:	28-Sep-2015 19:55:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_009.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Sep-2015 20:44:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-009
Misc. Info.: ic-07
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:58 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:16:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.330	4.329	0.001	97	194628	20.0	21.4	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	99	1323265	20.0	21.9	
3 Chlorodifluoromethane	51	4.506	4.501	0.005	95	516818	20.0	21.3	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.811	4.806	0.005	97	1115792	20.0	21.5	
5 Chloromethane	50	5.014	5.009	0.005	99	247799	20.0	21.0	
6 Butane	43	5.292	5.292	0.000	95	363598	20.0	21.2	
7 Vinyl chloride	62	5.357	5.357	0.000	98	312057	20.0	22.5	
8 Butadiene	54	5.464	5.458	0.006	92	207687	20.0	21.8	
10 Bromomethane	94	6.378	6.373	0.005	99	385574	20.0	21.7	
9 BFB									
11 Chloroethane	64	6.683	6.678	0.005	99	196869	20.0	21.4	
12 2-Methylbutane	43	6.769	6.769	0.000	86	300904	20.0	21.6	
13 Vinyl bromide	106	7.181	7.175	0.006	98	511279	20.0	23.4	
14 Trichlorofluoromethane	101	7.299	7.298	0.001	98	1515893	20.0	22.1	
16 Pentane	43	7.475	7.464	0.011	99	448828	20.0	21.9	
17 Ethanol	45	7.957	7.951	0.006	99	244078	40.0	42.0	
18 Ethyl ether	59	8.090	8.090	0.000	90	244212	20.0	23.8	
19 Acrolein	56	8.583	8.582	0.001	98	71281	20.0	18.8	
20 1,1,2-Trichloro-1,2,2-trif	101	8.599	8.598	0.001	92	972573	20.0	21.9	
21 1,1-Dichloroethene	96	8.673	8.668	0.005	93	469343	20.0	23.9	
22 Acetone	43	8.941	8.946	-0.005	97	472890	20.0	22.3	
23 Carbon disulfide	76	9.171	9.166	0.005	98	1034456	20.0	21.9	
24 Isopropyl alcohol	45	9.225	9.224	0.000	100	377136	20.0	22.3	
25 3-Chloro-1-propene	41	9.599	9.594	0.005	94	329330	20.0	23.9	
26 Acetonitrile	41	9.759	9.759	0.000	98	163766	20.0	21.3	
27 Methylene Chloride	49	9.936	9.931	0.005	81	322946	20.0	20.7	
28 2-Methyl-2-propanol	59	10.123	10.118	0.005	93	689116	20.0	23.0	
S 30 1,2-Dichloroethene, Total	61				0		40.0	46.6	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	95	1307179	20.0	25.1	
31 trans-1,2-Dichloroethene	61	10.439	10.433	0.006	90	540929	20.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.621	10.615	0.006	93	212402	20.0	22.4	
33 Hexane	57	10.856	10.856	0.000	89	502077	20.0	24.3	
34 1,1-Dichloroethane	63	11.434	11.428	0.006	99	681458	20.0	22.3	
35 Vinyl acetate	43	11.482	11.477	0.005	99	652016	20.0	21.9	
37 cis-1,2-Dichloroethene	96	12.622	12.621	0.001	93	521710	20.0	23.7	
38 2-Butanone (MEK)	72	12.659	12.659	0.000	99	204358	20.0	20.8	
39 Ethyl acetate	88	12.675	12.670	0.005	95	40626	20.0	22.5	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	71	189967	10.0	10.0	
41 Tetrahydrofuran	42	13.114	13.114	0.000	81	296244	20.0	21.6	
42 Chloroform	83	13.221	13.221	0.000	95	1046829	20.0	22.4	
43 Cyclohexane	84	13.515	13.509	0.006	89	621219	20.0	24.1	
44 1,1,1-Trichloroethane	97	13.536	13.536	0.000	93	1254556	20.0	22.7	
45 Carbon tetrachloride	117	13.788	13.788	0.000	97	1420365	20.0	23.3	
46 Isooctane	57	14.189	14.189	0.000	98	1691549	20.0	24.2	
47 Benzene	78	14.259	14.253	0.006	94	1338956	20.0	22.2	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	656161	20.0	22.7	
49 n-Heptane	43	14.531	14.537	-0.006	80	519200	20.0	23.8	
A 51 GRO	1	14.922	(6.759-23.085)		0	181322534	20.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	891534	10.0	10.0	
52 n-Butanol	56	15.296	15.296	0.000	83	173774	20.0	22.3	
53 Trichloroethene	95	15.484	15.484	0.000	94	723709	20.0	23.4	
54 1,2-Dichloropropane	63	16.024	16.019	0.006	87	432078	20.0	22.4	
55 Methyl methacrylate	69	16.099	16.099	0.000	91	473979	20.0	23.1	
56 1,4-Dioxane	88	16.195	16.195	0.000	85	234971	20.0	22.2	
57 Dibromomethane	174	16.259	16.259	0.000	86	938371	20.0	22.8	
58 Dichlorobromomethane	83	16.505	16.505	0.000	98	1193456	20.0	22.7	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	342981243	20.0	6650.2	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	791795	20.0	25.1	
61 4-Methyl-2-pentanone (MIBK	43	17.624	17.629	-0.005	90	708853	20.0	22.4	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	7322864	NC	NC	
64 n-Octane	43	17.939	17.939	0.000	80	664251	20.0	22.9	
65 Toluene	92	17.961	17.960	0.001	94	1042572	20.0	22.1	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	7322864	20.0	154.9	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	882098	20.0	24.4	
67 1,1,2-Trichloroethane	83	18.865	18.865	0.000	94	515682	20.0	22.8	
68 Tetrachloroethene	166	18.988	18.993	-0.005	96	1370038	20.0	24.1	
69 2-Hexanone	43	19.266	19.266	0.000	99	699854	20.0	22.1	
71 Chlorodibromomethane	129	19.619	19.619	0.000	97	1531804	20.0	23.7	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	1136272	20.0	23.5	
S 73 Xylenes, Total	106				0		60.0	69.3	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	817292	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	1693094	20.0	22.2	
76 Ethylbenzene	91	20.898	20.897	0.001	96	2450876	20.0	23.2	
77 n-Nonane	57	20.940	20.940	0.000	77	779122	20.0	22.5	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	1913507	40.0	44.8	
79 o-Xylene	106	21.802	21.802	0.000	99	1033352	20.0	24.5	
80 Styrene	104	21.839	21.839	0.000	96	1570911	20.0	23.8	
$ 83 4-Bromofluorobenzene	95	22.198	22.197	0.001	35	2287	NC	NC	
81 Bromoform	173	22.208	22.203	0.005	99	1685897	20.0	24.0	
82 Isopropylbenzene	105	22.353	22.353	0.000	95	3155328	20.0	24.5	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	97	1412525	20.0	21.6	
85 N-Propylbenzene	91	22.979	22.973	0.006	99	3588747	20.0	23.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	93	1088090	20.0	21.1	
87 n-Decane	57	23.080	23.075	0.005	92	1145664	20.0	21.5	
88 4-Ethyltoluene	105	23.144	23.139	0.005	99	3290295	20.0	23.1	
89 2-Chlorotoluene	91	23.177	23.176	0.001	95	2701106	20.0	22.6	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	2910830	20.0	23.6	
91 Alpha Methyl Styrene	118	23.594	23.588	0.006	91	1548400	20.0	25.4	
92 tert-Butylbenzene	119	23.722	23.722	0.000	94	2892807	20.0	23.7	
93 1,2,4-Trimethylbenzene	105	23.819	23.813	0.005	96	2916426	20.0	23.9	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	3988864	20.0	23.3	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	3643631	20.0	24.2	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	95	2328382	20.0	23.0	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	96	2383325	20.0	23.9	
98 Benzyl chloride	91	24.707	24.706	0.001	100	2616076	20.0	24.8	
99 Undecane	57	24.894	24.888	0.006	87	1194546	20.0	21.1	
100 n-Butylbenzene	91	24.926	24.920	0.006	97	2811052	20.0	21.8	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	98	2274250	20.0	23.3	
102 Dodecane	57	26.777	26.777	0.000	95	1225848	20.0	24.0	
103 1,2,4-Trichlorobenzene	180	28.136	28.130	0.006	94	2155386	20.0	26.4	
104 Hexachlorobutadiene	225	28.350	28.344	0.006	97	1906759	20.0	24.7	
105 Naphthalene	128	28.767	28.767	0.000	99	4060177	20.0	26.3	
106 1,2,3-Trichlorobenzene	180	29.361	29.355	0.006	96	1915329	20.0	27.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15CAL6w_00113	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

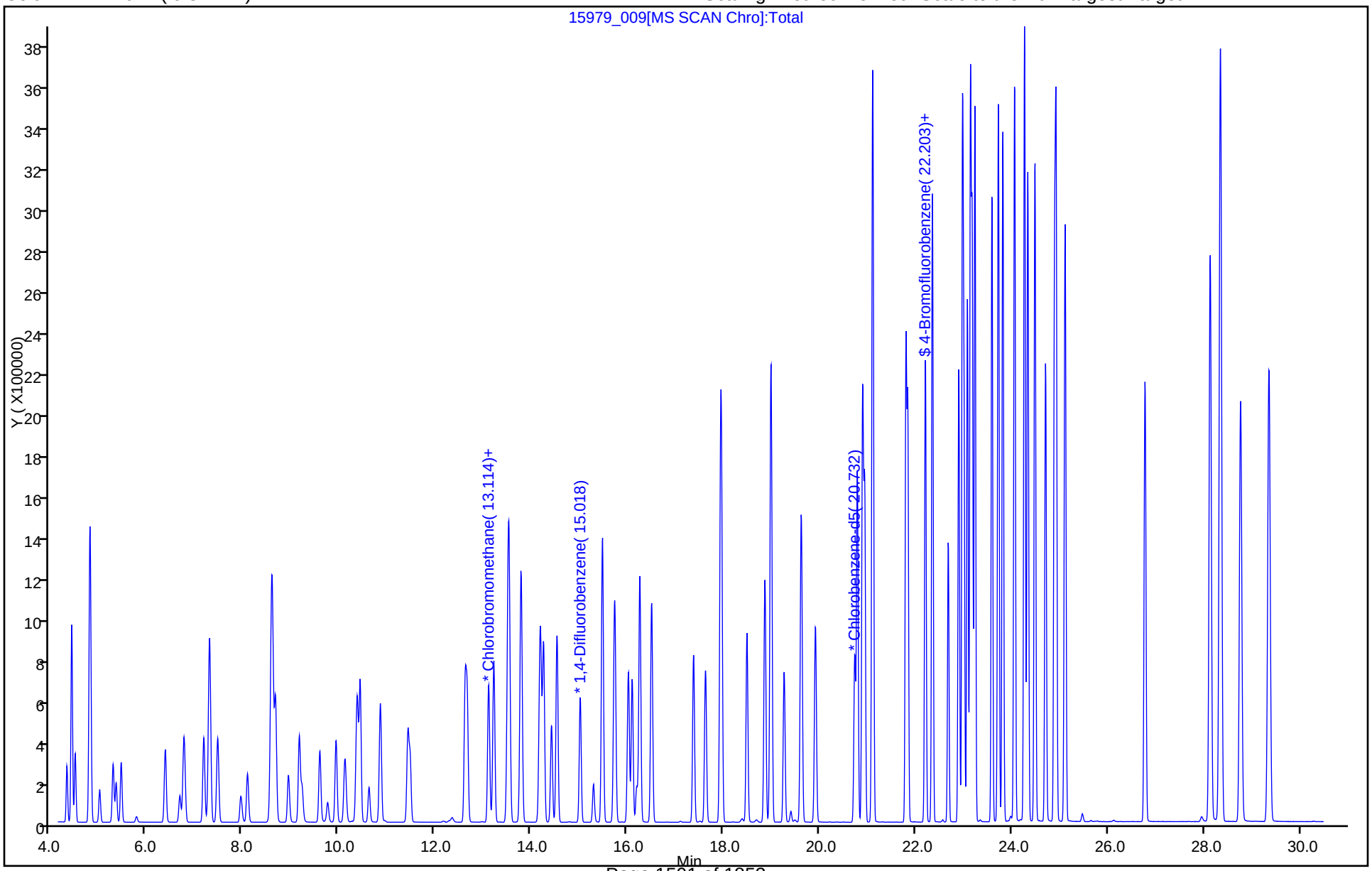
Report Date: 29-Sep-2015 12:09:58 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_009.d

Injection Date:	28-Sep-2015 20:44:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Sep-2015 21:32:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-010
Misc. Info.: ic-08
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:59 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:17:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	96	360479	40.0	36.3	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	98	2483606	40.0	37.7	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	982075	40.0	37.0	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.811	4.806	0.005	95	2074852	40.0	36.5	
5 Chloromethane	50	5.009	5.009	0.000	98	478760	40.0	37.2	
6 Butane	43	5.292	5.292	0.000	95	729608	40.0	38.9	
7 Vinyl chloride	62	5.351	5.357	-0.006	98	613461	40.0	40.6	
8 Butadiene	54	5.464	5.458	0.006	93	409838	40.0	39.4	
10 Bromomethane	94	6.378	6.373	0.005	99	732656	40.0	37.7	
9 BFB									
11 Chloroethane	64	6.683	6.678	0.005	99	376948	40.0	37.6	
12 2-Methylbutane	43	6.769	6.769	0.000	86	573350	40.0	37.6	
13 Vinyl bromide	106	7.181	7.175	0.006	98	978108	40.0	40.9	
14 Trichlorofluoromethane	101	7.299	7.298	0.000	98	2919629	40.0	39.0	
16 Pentane	43	7.470	7.464	0.006	98	846790	40.0	37.8	
17 Ethanol	45	7.962	7.951	0.011	99	563454	100.0	88.8	
18 Ethyl ether	59	8.090	8.090	0.000	90	468658	40.0	41.8	
19 Acrolein	56	8.577	8.582	-0.005	96	166713	40.0	40.3	
20 1,1,2-Trichloro-1,2,2-trif	101	8.598	8.598	0.000	92	1781546	40.0	36.8	
21 1,1-Dichloroethene	96	8.673	8.668	0.005	94	871104	40.0	40.6	
22 Acetone	43	8.946	8.946	0.000	97	857096	40.0	36.9	
23 Carbon disulfide	76	9.171	9.166	0.005	98	1967388	40.0	38.0	
24 Isopropyl alcohol	45	9.230	9.224	0.006	100	720304	40.0	38.9	
25 3-Chloro-1-propene	41	9.599	9.594	0.005	94	611451	40.0	40.6	
26 Acetonitrile	41	9.759	9.759	0.000	98	310200	40.0	36.9	
27 Methylene Chloride	49	9.936	9.931	0.005	79	605735	40.0	35.6	
28 2-Methyl-2-propanol	59	10.129	10.118	0.010	93	1366917	40.0	41.8	
S 30 1,2-Dichloroethene, Total	61				0		80.0	79.4	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	95	2557069	40.0	44.9	
31 trans-1,2-Dichloroethene	61	10.439	10.433	0.006	91	1005758	40.0	39.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.621	10.615	0.006	93	408869	40.0	39.4	
33 Hexane	57	10.861	10.856	0.005	88	922507	40.0	40.8	
34 1,1-Dichloroethane	63	11.434	11.428	0.006	99	1290284	40.0	38.7	
35 Vinyl acetate	43	11.482	11.477	0.005	98	1281080	40.0	39.4	
37 cis-1,2-Dichloroethene	96	12.621	12.621	0.000	87	972636	40.0	40.4	
38 2-Butanone (MEK)	72	12.659	12.659	0.000	99	375524	40.0	35.0	
39 Ethyl acetate	88	12.675	12.670	0.005	95	76579	40.0	38.9	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	72	207590	10.0	10.0	
41 Tetrahydrofuran	42	13.108	13.114	-0.006	82	566443	40.0	37.8	
42 Chloroform	83	13.221	13.221	0.000	95	2007382	40.0	39.2	
43 Cyclohexane	84	13.515	13.509	0.006	91	1127932	40.0	40.1	
44 1,1,1-Trichloroethane	97	13.536	13.536	0.000	93	2380113	40.0	39.5	
45 Carbon tetrachloride	117	13.788	13.788	0.000	97	2751464	40.0	41.5	
46 Isooctane	57	14.189	14.189	0.000	98	3096253	40.0	40.6	
47 Benzene	78	14.258	14.253	0.005	94	2465854	40.0	37.5	
48 1,2-Dichloroethane	62	14.424	14.419	0.005	99	1273942	40.0	40.3	
49 n-Heptane	43	14.537	14.537	0.000	78	944712	40.0	39.8	
A 51 GRO	1	14.922	(6.759-23.085)		0	330988179	40.0	0	
* 50 1,4-Difluorobenzene	114	15.023	15.018	0.005	92	971762	10.0	10.0	
52 n-Butanol	56	15.296	15.296	0.000	83	353405	40.0	41.6	
53 Trichloroethene	95	15.484	15.484	0.000	95	1354869	40.0	40.1	
54 1,2-Dichloropropane	63	16.024	16.019	0.006	87	801211	40.0	38.2	
55 Methyl methacrylate	69	16.104	16.099	0.005	90	900150	40.0	40.2	
56 1,4-Dioxane	88	16.195	16.195	0.000	85	432013	40.0	37.5	
57 Dibromomethane	174	16.265	16.259	0.006	86	1735761	40.0	38.7	
58 Dichlorobromomethane	83	16.505	16.505	0.000	98	2283718	40.0	39.8	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	591813109	40.0	10528	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	1530043	40.0	44.5	
61 4-Methyl-2-pentanone (MIBK	43	17.629	17.629	0.000	89	1321461	40.0	38.2	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	12876541	NC	NC	
64 n-Octane	43	17.939	17.939	0.000	80	1132339	40.0	35.9	
65 Toluene	92	17.960	17.960	0.000	94	1821449	40.0	34.8	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	12876541	40.0	245.9	
66 trans-1,3-Dichloropropene	75	18.495	18.490	0.005	94	1701047	40.0	43.2	
67 1,1,2-Trichloroethane	83	18.865	18.865	0.000	94	950313	40.0	37.9	
68 Tetrachloroethene	166	18.993	18.993	0.000	96	2474129	40.0	39.3	
69 2-Hexanone	43	19.266	19.266	0.000	99	1315481	40.0	37.6	
71 Chlorodibromomethane	129	19.624	19.619	0.005	97	2858902	40.0	39.9	
72 Ethylene Dibromide	107	19.918	19.913	0.005	99	2142267	40.0	40.0	
S 73 Xylenes, Total	106				0		120.0	107.6	
* 74 Chlorobenzene-d5	117	20.737	20.732	0.005	82	905193	10.0	10.0	
75 Chlorobenzene	112	20.790	20.785	0.005	98	3070220	40.0	36.4	
76 Ethylbenzene	91	20.897	20.897	0.000	97	4337750	40.0	37.0	
77 n-Nonane	57	20.946	20.940	0.006	79	1335114	40.0	34.7	
78 m-Xylene & p-Xylene	106	21.111	21.106	0.005	0	3273594	80.0	69.2	
79 o-Xylene	106	21.802	21.802	0.000	99	1793176	40.0	38.4	
80 Styrene	104	21.839	21.839	0.000	98	2762243	40.0	37.8	
$ 83 4-Bromofluorobenzene	95	22.203	22.197	0.006	26	4386	NC	NC	
81 Bromoform	173	22.208	22.203	0.005	98	2991235	40.0	38.5	
82 Isopropylbenzene	105	22.353	22.353	0.000	95	5487717	40.0	38.4	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	97	2413749	40.0	33.4	
85 N-Propylbenzene	91	22.978	22.973	0.005	98	5927124	40.0	34.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.011	23.005	0.006	93	1872723	40.0	32.8	
87 n-Decane	57	23.080	23.075	0.005	93	1871486	40.0	31.7	
88 4-Ethyltoluene	105	23.144	23.139	0.005	96	5511156	40.0	34.9	
89 2-Chlorotoluene	91	23.182	23.176	0.006	94	4640402	40.0	35.0	
90 1,3,5-Trimethylbenzene	105	23.241	23.235	0.006	93	5008279	40.0	36.7	
91 Alpha Methyl Styrene	118	23.594	23.588	0.006	91	2742141	40.0	40.6	
92 tert-Butylbenzene	119	23.727	23.722	0.005	93	4946971	40.0	36.7	
93 1,2,4-Trimethylbenzene	105	23.818	23.813	0.005	97	5053079	40.0	37.3	
94 sec-Butylbenzene	105	24.064	24.059	0.005	97	6676840	40.0	35.3	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	96	6170522	40.0	36.9	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	97	4004189	40.0	35.7	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	95	4094892	40.0	37.0	
98 Benzyl chloride	91	24.712	24.706	0.006	99	4812737	40.0	41.1	
99 Undecane	57	24.894	24.888	0.006	89	1852399	40.0	29.6	
100 n-Butylbenzene	91	24.926	24.920	0.006	97	4641809	40.0	32.5	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	97	3943211	40.0	36.5	
102 Dodecane	57	26.777	26.777	0.000	95	1035901	40.0	18.3	
103 1,2,4-Trichlorobenzene	180	28.136	28.130	0.006	94	2962806	40.0	32.8	
104 Hexachlorobutadiene	225	28.350	28.344	0.006	97	2310866	40.0	27.0	
105 Naphthalene	128	28.772	28.767	0.005	99	5678107	40.0	33.2	
106 1,2,3-Trichlorobenzene	180	29.361	29.355	0.006	96	2140161	40.0	27.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15CAL7w_00057	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

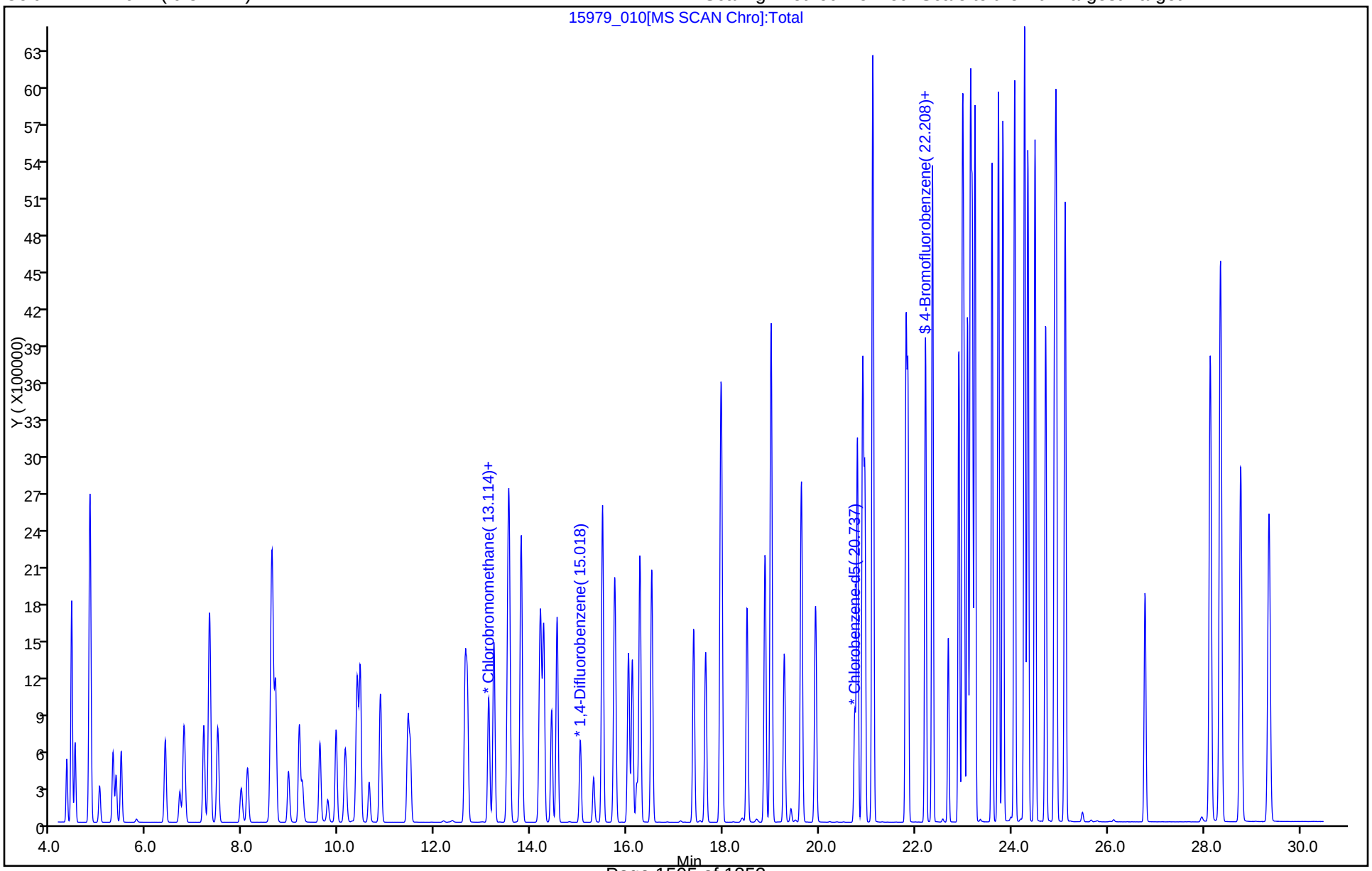
Report Date: 29-Sep-2015 12:09:59 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Injection Date:	28-Sep-2015 21:32:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92823/4	15313_04.D
Level 2	IC 200-92823/5	15313_05.D
Level 3	IC 200-92823/6	15313_06.D
Level 4	IC 200-92823/7	15313_07.D
Level 5	ICIS 200-92823/8	15313_08.D
Level 6	IC 200-92823/9	15313_09.D
Level 7	IC 200-92823/10	15313_10.D
Level 8	IC 200-92823/11	15313_11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.4217	+++++ 0.3861	+++++ 0.3746	0.4479	0.4467	Ave		0.4154				8.2		30.0			
Dichlorodifluoromethane	+++++ 1.9562	+++++ 1.8005	2.0724 1.8099	1.9718	2.0597	Ave		1.9451				6.1		30.0			
Freon 22	+++++ 0.9410	+++++ 0.8557	1.0308 0.8605	0.9525	1.0039	Ave		0.9407				7.7		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.9844	2.0400 1.8229	2.0816 1.8362	1.9869	2.0916	Ave		1.9777				5.5		30.0			
Chloromethane	+++++ 0.5508	+++++ 0.4994	0.6023 0.5030	0.5512	0.5775	Ave		0.5474				7.4		30.0			
n-Butane	+++++ 0.8734	+++++ 0.7902	1.1420 0.7819	0.8761	0.9311	Ave		0.8991				14.7		30.0			
Vinyl chloride	0.5581 0.7177	0.7646 0.6507	0.7298 0.6553	0.7013	0.7448	Ave		0.6903				9.7		30.0			
1,3-Butadiene	+++++ 0.4961	0.5033 0.4509	0.5612 0.4522	0.4897	0.5172	Ave		0.4958				7.7		30.0			
Bromomethane	+++++ 0.7801	0.8013 0.7302	0.8346 0.7434	0.7722	0.8096	Ave		0.7816				4.7		30.0			
Chloroethane	+++++ 0.3505	+++++ 0.3215	0.3698 0.3273	0.3552	0.3673	Ave		0.3486				5.8		30.0			
Isopentane	+++++ 0.6007	0.8096 0.5414	0.7583 0.5449	0.6175	0.6326	Ave		0.6436				16.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.9084	0.9255 0.8384	0.9448 0.8566	0.8923	0.9492	Ave		0.9022				4.7		30.0			
Trichlorofluoromethane	+++++ 2.1493	2.2362 1.9805	2.2729 2.0076	2.1260	2.2453	Ave		2.1454				5.4		30.0			
n-Pentane	+++++ 1.0004	+++++ 0.9129	1.2363 0.9048	1.0239	1.0635	Ave		1.0236				11.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.2153	+++++ 0.1993	0.2086 0.1896	0.2564	0.2184	Ave		0.2146				10.7		30.0			
Ethyl ether	+++++ 0.4678	0.4216 0.4300	0.4611 0.4279	0.4617	0.4828	Ave		0.4504				5.2		30.0			
Acrolein	+++++ 0.2039	+++++ 0.1495	+++++ 0.0733	0.1874	0.2330	Ave		0.1694				36.4	*	30.0			
Freon TF	+++++ 1.7251	1.8538 1.5853	1.7882 1.6059	1.6847	1.7794	Ave		1.7175				5.7		30.0			
1,1-Dichloroethene	+++++ 0.8111	0.8057 0.7557	0.8391 0.7625	0.7969	0.8486	Ave		0.8028				4.4		30.0			
Acetone	+++++ 0.8945	+++++ 0.8691	+++++ 0.7725	0.9799	0.8602	Ave		0.8752				8.5		30.0			
Carbon disulfide	+++++ 2.0561	+++++ 1.9250	2.1426 1.9277	2.0418	2.1464	Ave		2.0399				4.8		30.0			
Isopropyl alcohol	+++++ 0.9015	+++++ 0.8445	+++++ 0.7980	0.8261	0.7772	Ave		0.8295				5.8		30.0			
3-Chloropropene	+++++ 0.6898	0.7607 0.6184	0.7406 0.5672	0.6548	0.7111	Ave		0.6775				10.1		30.0			
Acetonitrile	+++++ 0.4303	+++++ 0.3963	+++++ 0.3857	0.4481	0.4141	Ave		0.4149				6.1		30.0			
Methylene Chloride	+++++ 0.7001	+++++ 0.6428	0.9791 0.6297	0.7290	0.7416	Ave		0.7371				17.2		30.0			
tert-Butyl alcohol	+++++ 1.4245	+++++ 1.3250	+++++ 1.2854	1.3257	1.2875	Ave		1.3296				4.2		30.0			
Methyl tert-butyl ether	+++++ 2.2289	2.3168 2.0695	2.3239 2.0734	2.1930	2.3362	Ave		2.2202				5.2		30.0			
trans-1,2-Dichloroethene	+++++ 1.0293	1.0861 0.9475	1.0975 0.9441	1.0238	1.0883	Ave		1.0310				6.3		30.0			
Acrylonitrile	+++++ 0.4856	+++++ 0.4458	0.4987 0.4492	0.4896	0.5015	Ave		0.4784				5.2		30.0			
n-Hexane	+++++ 1.0634	1.2098 0.9715	1.2602 0.9725	1.0648	1.1212	Ave		1.0948				10.1		30.0			
1,1-Dichloroethane	1.5382 1.3849	1.3885 1.2679	1.4587 1.2764	1.3738	1.4475	Ave		1.3920				6.5		30.0			
Vinyl acetate	+++++ 1.6812	+++++ 1.5077	+++++ 1.5101	1.6852	1.7752	Ave		1.6319				7.3		30.0			
cis-1,2-Dichloroethene	+++++ 1.0202	1.0647 0.9430	1.0522 0.9562	0.9956	1.0590	Ave		1.0130				4.9		30.0			
Methyl Ethyl Ketone	+++++ 0.4413	+++++ 0.4131	0.6426 0.4061	0.4467	0.4371	Ave		0.4645				19.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0763	+++++ 0.0706	+++++ 0.0702	0.0734	0.0770	Ave		0.0735				4.3		30.0			
Tetrahydrofuran	+++++ 0.1456	+++++ 0.1387	+++++ 0.1368	0.1439	0.1473	Ave		0.1425				3.2		30.0			
Chloroform	+++++ 1.8556	1.9677 1.7173	1.9648 1.7285	1.8364	1.9374	Ave		1.8582				5.7		30.0			
Cyclohexane	+++++ 0.2503	0.2614 0.2414	0.2588 0.2423	0.2416	0.2563	Ave		0.2503				3.5		30.0			
1,1,1-Trichloroethane	+++++ 0.3672	0.3668 0.3531	0.3747 0.3590	0.3543	0.3770	Ave		0.3646				2.6		30.0			
Carbon tetrachloride	0.3526 0.4060	0.3676 0.3394	0.3802 0.3995	0.3772	0.4163	Ave		0.3798				7.0		30.0			
2,2,4-Trimethylpentane	+++++ 0.8394	0.8585 0.8064	0.8614 0.7969	0.8267	0.8661	Ave		0.8365				3.3		30.0			
Benzene	+++++ 0.5800	0.6142 0.5583	0.6179 0.5588	0.5650	0.5925	Ave		0.5838				4.3		30.0			
1,2-Dichloroethane	+++++ 0.2057	0.2124 0.1970	0.2101 0.1977	0.1998	0.2117	Ave		0.2049				3.3		30.0			
n-Heptane	+++++ 0.2782	0.2970 0.2631	0.3064 0.2589	0.2776	0.2909	Ave		0.2817				6.2		30.0			
n-Butanol	+++++ 0.1065	+++++ 0.1015	+++++ 0.1011	0.0934	0.0831	Ave		0.0971				9.4		30.0			
Trichloroethene	0.3441 0.2794	0.2994 0.2916	0.2963 0.2732	0.2670	0.3026	Ave		0.2942				8.1		30.0			
1,2-Dichloropropane	+++++ 0.2234	0.2240 0.2155	0.2260 0.2160	0.2183	0.2299	Ave		0.2219				2.4		30.0			
Methyl methacrylate	+++++ 0.2250	+++++ 0.2165	0.2229 0.2185	0.2157	0.2280	Ave		0.2211				2.2		30.0			
1,4-Dioxane	+++++ 0.1176	+++++ 0.1179	+++++ 0.1091	0.1077	0.0960	Ave		0.1097				8.2		30.0			
Dibromomethane	+++++ 0.3388	0.3994 0.3610	0.3784 0.3428	0.3179	0.3380	Ave		0.3538				7.8		30.0			
Bromodichloromethane	+++++ 0.4338	0.3914 0.4029	0.4077 0.4202	0.4152	0.4459	Ave		0.4167				4.5		30.0			
cis-1,3-Dichloropropene	+++++ 0.3553	0.3367 0.3450	0.3436 0.3491	0.3408	0.3671	Ave		0.3482				2.9		30.0			
methyl isobutyl ketone	+++++ 0.3868	+++++ 0.3668	0.3983 0.3610	0.3809	0.3961	Ave		0.3817				4.0		30.0			
Toluene	+++++ 0.5051	0.5341 0.4972	0.5296 0.4915	0.4901	0.5166	Ave		0.5092				3.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.4270	0.4721 0.4004	0.4763 0.3858	0.4286	0.4460	Ave		0.4337				7.8		30.0			
trans-1,3-Dichloropropene	+++++ 0.3582	0.3895 0.3419	0.3985 0.3458	0.3417	0.3665	Ave		0.3631				6.4		30.0			
1,1,2-Trichloroethane	+++++ 0.2392	0.2492 0.2312	0.2406 0.2317	0.2283	0.2428	Ave		0.2376				3.1		30.0			
Tetrachloroethene	0.5710 0.5011	0.4954 0.4946	0.5091 0.5007	0.4736	0.5113	Ave		0.5071				5.6		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.3841	+++++ 0.3654	0.3897 0.3577	0.3804	0.3913	Ave		0.3781				3.6		30.0			
Dibromochloromethane	+++++ 0.5375	0.4313 0.4642	0.4293 0.5194	0.5012	0.5551	Ave		0.4912				10.3		30.0			
1,2-Dibromoethane	+++++ 0.4791	0.4546 0.4647	0.4653 0.4681	0.4535	0.4856	Ave		0.4673				2.5		30.0			
Chlorobenzene	+++++ 0.7297	0.7256 0.7132	0.7409 0.7191	0.7020	0.7447	Ave		0.7250				2.1		30.0			
Ethylbenzene	+++++ 1.1032	1.1096 1.0737	1.1265 1.0765	1.0662	1.1287	Ave		1.0978				2.3		30.0			
n-Nonane	+++++ 0.4676	0.4993 0.4478	0.5022 0.4373	0.4603	0.4843	Ave		0.4713				5.3		30.0			
m,p-Xylene	+++++ 0.4668	0.4714 0.4553	0.4656 0.4546	0.4504	0.4764	Ave		0.4629				2.1		30.0			
Xylene, o-	+++++ 0.4606	0.4648 0.4489	0.4655 0.4506	0.4419	0.4705	Ave		0.4575				2.3		30.0			
Styrene	+++++ 0.7256	0.7048 0.6961	0.7105 0.7162	0.7015	0.7438	Ave		0.7141				2.3		30.0			
Bromoform	+++++ 0.5560	0.3350 0.3882	0.3410 0.5041	0.4937	0.5955	Ave		0.4591				22.8		30.0			
Cumene	+++++ 1.3228	1.3259 1.2755	1.3199 1.2897	1.2647	1.3374	Ave		1.3051				2.2		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.6397	0.6338 0.5688	0.6221 0.6070	0.6139	0.6132	Ave		0.6141				3.8		30.0			
n-Propylbenzene	+++++ 1.5353	1.5493 1.4866	1.5448 1.4748	1.4868	1.5698	Ave		1.5211				2.5		30.0			
1,2,3-Trichloropropane	+++++ 0.4724	+++++ 0.4514	0.4989 0.4471	0.4578	0.4826	Ave		0.4684				4.3		30.0			
n-Decane	+++++ 0.6069	+++++ 0.5702	0.6512 0.5192	0.6006	0.6278	Ave		0.5960				7.8		30.0			
4-Ethyltoluene	+++++ 1.3381	1.3541 1.2907	1.3495 1.2618	1.2779	1.3605	Ave		1.3190				3.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.0354	1.0757 1.0002	1.0640 0.9864	1.0022	1.0587	Ave		1.0318				3.5		30.0			
1,3,5-Trimethylbenzene	+++++ 1.1059	1.1096 1.0703	1.1128 1.0341	1.0592	1.1288	Ave		1.0887				3.2		30.0			
Alpha Methyl Styrene	+++++ 0.6047	0.5522 0.5310	0.5708 0.5680	0.5710	0.6196	Ave		0.5739				5.2		30.0			
tert-Butylbenzene	+++++ 1.0994	1.1337 1.0613	1.1213 1.0105	1.0516	1.1174	Ave		1.0850				4.1		30.0			
1,2,4-Trimethylbenzene	+++++ 1.1128	1.1049 1.0775	1.1264 1.0182	1.0659	1.1340	Ave		1.0914				3.7		30.0			
sec-Butylbenzene	+++++ 1.6220	1.6031 1.5643	1.6414 1.4620	1.5637	1.6495	Ave		1.5866				4.1		30.0			
4-Isopropyltoluene	+++++ 1.4308	1.4178 1.3520	1.4261 1.3437	1.3613	1.4478	Ave		1.3971				3.1		30.0			
1,3-Dichlorobenzene	+++++ 0.8507	0.8559 0.8409	0.8573 0.7894	0.8132	0.8679	Ave		0.8393				3.3		30.0			
1,4-Dichlorobenzene	+++++ 0.8572	0.8741 0.8499	0.8638 0.7949	0.8290	0.8776	Ave		0.8495				3.4		30.0			
Benzyl chloride	+++++ 0.9506	0.8526 0.8276	0.8441 0.8771	0.8705	0.9975	Ave		0.8886				7.0		30.0			
n-Undecane	+++++ 0.6292	+++++ 0.5931	+++++ 0.5467	0.6360	0.6547	Ave		0.6119				7.0		30.0			
n-Butylbenzene	+++++ 1.1559	1.2884 1.0253	1.2600 1.1014	1.1698	1.2281	Ave		1.1756				7.9		30.0			
1,2-Dichlorobenzene	+++++ 0.8072	0.8192 0.7905	0.8151 0.7523	0.7657	0.8194	Ave		0.7956				3.4		30.0			
n-Dodecane	+++++ 0.5858	+++++ 0.5673	+++++ 0.3894	0.6344	0.6166	Ave		0.5587				17.6		30.0			
1,2,4-Trichlorobenzene	+++++ 0.7226	+++++ 0.7720	0.7348 0.7485	0.7000	0.7277	Ave		0.7342				3.3		30.0			
Hexachlorobutadiene	+++++ 0.6939	0.7003 0.6812	0.7237 0.6616	0.6426	0.6796	Ave		0.6833				3.9		30.0			
Naphthalene	+++++ 1.2948	+++++ 1.4968	1.2878 1.4524	1.3528	1.5517	Ave		1.4061				7.8		30.0			
1,2,3-Trichlorobenzene	+++++ 0.6764	0.6735 0.7170	0.6661 0.6369	0.6750	0.7061	Ave		0.6787				3.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92823/4	15313_04.D
Level 2	IC 200-92823/5	15313_05.D
Level 3	IC 200-92823/6	15313_06.D
Level 4	IC 200-92823/7	15313_07.D
Level 5	ICIS 200-92823/8	15313_08.D
Level 6	IC 200-92823/9	15313_09.D
Level 7	IC 200-92823/10	15313_10.D
Level 8	IC 200-92823/11	15313_11.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 115606	+++++ 147627	+++++ 293103	39568	79619	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 536300	+++++ 688331	18447 1416178	174200	367128	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 257975	+++++ 327136	9175 673303	84151	178941	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 544022	7340 696918	18529 1436768	175537	372804	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 151010	+++++ 190924	5361 393541	48700	102928	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 239444	+++++ 302089	10165 611813	77403	165953	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	406 196764	2751 248778	6496 512756	61956	132763	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 135999	1811 172388	4995 353849	43265	92194	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 213878	2883 279157	7429 581679	68219	144302	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 96102	+++++ 122905	3292 256075	31384	65465	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 164678	2913 206973	6750 426323	54555	112761	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 249053	3330 320535	8410 670234	78834	169183	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 589227	8046 757146	20232 1570842	187826	400212	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 274252	+++++ 348993	11005 707953	90462	189558	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 78878	+++++ 152414	18594 370809	45333	58425	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 128246	1517 164407	4104 334842	40793	86055	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 55901	+++++ 57144	+++++ 57386	16554	41527	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 472941	6670 606055	15917 1256523	148836	317169	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 222376	2899 288899	7469 596610	70402	151254	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 245235	+++++ 332279	+++++ 604454	86571	153320	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 563694	+++++ 735941	19072 1508299	180387	382581	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 247161	+++++ 322857	+++++ 624384	72980	138526	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 189105	2737 236424	6592 443769	57849	126757	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 117962	+++++ 151523	+++++ 301814	39587	73804	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 191942	+++++ 245762	8715 492671	64407	132185	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 390536	+++++ 506551	+++++ 1005737	117126	229496	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 611053	8336 791200	20686 1622319	193747	416407	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 282198	3908 362220	9769 738694	90452	193989	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 133120	+++++ 170432	4439 351437	43254	89386	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 291527	4353 371423	11217 760933	94069	199848	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1119 379683	4996 484720	12984 998726	121376	258006	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 460901	+++++ 576389	+++++ 1181596	148881	316412	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 279699	3831 360505	9366 748190	87958	188750	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 120992	+++++ 157943	5720 317730	39469	77903	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 20908	+++++ 26996	+++++ 54940	6481	13732	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 213592	+++++ 271947	+++++ 550582	69181	142545	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 508708	7080 656531	17489 1352467	162241	345321	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 367117	5156 473473	12595 974894	116145	247969	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 538511	7236 692478	18231 1444367	170319	364721	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	1411 595426	7250 665674	18498 1607404	181327	402821	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 1231099	16933 1581525	41917 3206482	397447	838004	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 850668	12116 1094952	30066 2248333	271621	573241	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 301746	4190 386358	10225 795366	96043	204801	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 408033	5858 515909	14909 1041893	133436	281469	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 156227	+++++ 199142	+++++ 406800	44914	80367	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	1377 409861	5905 571789	14420 1099379	128372	292790	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 327591	4419 422687	10996 869152	104929	222412	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 329938	+++++ 424575	10846 879348	103716	220565	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 172495	+++++ 231199	+++++ 438987	51754	92901	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 496840	7879 707881	18413 1379467	152819	327060	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 636254	7721 790218	19837 1690582	199622	431391	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 521087	6642 676517	16721 1404582	163830	355200	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 567275	+++++ 719425	19380 1452676	183126	383249	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 727136	10378 957398	25278 1950494	231255	489691	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 626206	9312 785212	23178 1552346	206063	431541	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 525377	7682 670483	19391 1391292	164265	354582	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 344310	4842 445240	11485 919569	107712	230143	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	2234 721350	9626 952351	24300 1986893	223437	484640	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 552940	+++++ 703504	18600 1419344	179506	370855	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 773759	8380 893824	20490 2061192	236482	526159	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 689606	8833 894793	22207 1857346	213957	460295	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 1050334	14098 1373195	35363 2853671	331246	705853	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 1587982	21560 2067415	53766 4271792	503072	1069819	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 673141	9701 862327	23969 1735272	217187	459000	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 1343786	18319 1753357	44443 3608247	424990	903046	+++++ 30.0	0.400 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 663048	9032 864306	22217 1787948	208525	445933	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 1044542	13694 1340404	33909 2842089	330977	704947	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 800301	6509 747541	16277 2000470	232957	564392	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 1904124	25764 2455967	62997 5117881	596746	1267613	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 920841	12316 1095183	29690 2408856	289659	581197	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 2210049	30105 2862524	73727 5852479	701499	1487902	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 680056	+++++ 869202	23812 1774249	216002	457424	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 873541	+++++ 1097936	31078 2060487	283369	595025	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 1926124	26312 2485215	64410 5007218	602938	1289537	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 1490410	20902 1925859	50782 3914379	472878	1003429	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 1591961	21561 2060828	53113 4103368	499768	1069946	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 870386	10730 1022373	27241 2253838	269421	587298	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 1582555	22029 2043539	53515 4010081	496200	1059064	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29972-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 1601792	21469 2074788	53761 4040427	502925	1074809	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 2334756	31149 3012184	78341 5801638	737805	1563449	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 2059610	27549 2603395	68063 5332076	642290	1372257	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 1224566	16631 1619152	40915 3132687	383696	822626	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 1233878	16984 1636540	41228 3154352	391164	831794	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 1368379	16566 1593524	40288 3480432	410726	945439	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 905738	+++++ 1142006	+++++ 2169541	300072	620516	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 1663811	25035 1974285	60138 4370458	551929	1164033	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 1161892	15918 1522188	38902 2985410	361270	776660	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 843183	+++++ 1092276	+++++ 1545129	299345	584392	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1040101	+++++ 1486418	35069 2970105	330266	689770	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 998827	13607 1311617	34540 2625229	303192	644122	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 1863786	+++++ 2882160	61461 5763656	638299	1470735	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 973583	13086 1380654	31792 2527390	318508	669275	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Aug-2015 18:04:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-004
Misc. Info.: ic-01
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:24 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:13:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.097	3.092	0.005	72	1904	0.0401	0.2526	
2 Dichlorodifluoromethane	85	3.167	3.161	0.006	95	1706	0.0401	0.0483	
3 Chlorodifluoromethane	51	3.220	3.209	0.011	96	727	0.0401	0.0426	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.429	3.423	0.006	86	1688	0.0401	0.0470	
5 Chloromethane	50	3.568	3.563	0.005	86	522	0.0401	0.0526	
6 Butane	43	3.761	3.755	0.006	92	792	0.0401	0.0485	
7 Vinyl chloride	62	3.809	3.803	0.006	91	406	0.0401	0.0324	M
8 Butadiene	54	3.889	3.878	0.011	78	403	0.0401	0.0448	
9 Bromomethane	94	4.547	4.547	0.000	89	716	0.0401	0.0505	
10 Chloroethane	64		4.777				ND	ND	
11 2-Methylbutane	43	4.831	4.841	-0.010	27	423	0.0401	0.0362	
12 Vinyl bromide	106	5.157	5.157	0.000	94	644	0.0401	0.0393	
13 Trichlorofluoromethane	101	5.259	5.248	0.011	92	1788	0.0401	0.0459	
14 Pentane	43	5.387	5.376	0.011	40	976	0.0401	0.0525	
15 Ethanol	45	5.826	5.804	0.022	0	127	0.0802	0.0326	
16 Ethyl ether	59		5.895				ND	ND	
17 Acrolein	56		6.280				ND	ND	
18 1,1,2-Trichloro-1,2,2-trif	101	6.291	6.286	0.005	89	1267	0.0401	0.0407	
20 1,1-Dichloroethene	96	6.339	6.344	-0.005	86	556	0.0401	0.0382	
21 Acetone	43	6.617	6.585	0.032	86	6178	0.0401	0.3890	
22 Carbon disulfide	76	6.746	6.740	0.006	98	2116	0.0401	0.0572	
23 Isopropyl alcohol	45	6.928	6.863	0.065	96	962	0.0401	0.0639	
24 3-Chloro-1-propene	41	7.110	7.115	-0.005	1	256	0.0401	0.0208	
25 Acetonitrile	41		7.265				ND	ND	
26 Methylene Chloride	49	7.415	7.409	0.006	79	1458	0.0401	0.1090	
28 2-Methyl-2-propanol	59	7.730	7.639	0.091	91	1219	0.0401	0.0505	
29 Methyl tert-butyl ether	73	7.864	7.800	0.064	33	1895	0.0401	0.0470	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	78	819	0.0401	0.0438	
31 Acrylonitrile	53	8.019	8.003	0.016	11	165	0.0401	0.0190	
32 Hexane	57	8.212	8.201	0.011	55	680	0.0401	0.0342	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	3	1119	0.0401	0.0443	M
34 Vinyl acetate	43	8.773	8.773	0.000	98	1348	0.0401	0.0455	
35 cis-1,2-Dichloroethene	96	9.806	9.816	-0.010	92	606	0.0401	0.0330	
36 2-Butanone (MEK)	72	9.897	9.865	0.032	96	652	0.0401	0.0774	
37 Ethyl acetate	88		9.897				ND	ND	
S 38 1,2-Dichloroethene, Total	61				0		0.0802	0.0767	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	77	181467	10.0	10.0	
39 Tetrahydrofuran	42	10.346	10.287	0.059	74	612	0.0401	0.0430	
41 Chloroform	83	10.410	10.410	0.000	80	1745	0.0401	0.0517	
42 Cyclohexane	84	10.662	10.656	0.006	57	636	0.0401	0.0255	
43 1,1,1-Trichloroethane	97	10.683	10.688	-0.005	50	1071	0.0401	0.0294	
44 Carbon tetrachloride	117	10.929	10.934	-0.005	87	1411	0.0401	0.0372	
45 Isooctane	57		11.362				ND	ND	
46 Benzene	78	11.411	11.416	-0.005	1	1563	0.0401	0.0268	
47 1,2-Dichloroethane	62		11.609				ND	ND	
48 n-Heptane	43	11.748	11.753	-0.005	20	1374	0.0401	0.0489	
* 50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	93	998265	10.0	10.0	
51 n-Butanol	56		12.668				ND	ND	
52 Trichloroethene	95	12.743	12.743	0.000	88	1377	0.0401	0.0469	M
53 1,2-Dichloropropane	63		13.336				ND	ND	
54 Methyl methacrylate	69		13.492				ND	ND	
55 1,4-Dioxane	88	13.626	13.567	0.059	44	1120	0.0401	0.1023	
56 Dibromomethane	174	13.610	13.609	0.001	86	1534	0.0401	0.0434	
57 Dichlorobromomethane	83	13.909	13.909	0.000	91	1663	0.0401	0.0400	
58 cis-1,3-Dichloropropene	75	14.877	14.877	0.000	1	1018	0.0401	0.0293	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	756084	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	756084	0.0401	14.9	
61 4-Methyl-2-pentanone (MIBK	43	15.209	15.177	0.032	91	1847	0.0401	0.0485	
A 63 Toluene Range	1		(15.472-15.492)				NC	ND	
62 Toluene	92	15.477	15.482	-0.005	92	2483	0.0401	0.0500	
A 65 GRO	1	15.514	(15.514-15.514)		0	13651	0.0401	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	76	2181	0.0401	0.0504	
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	88	1470	0.0401	0.0406	
68 1,1,2-Trichloroethane	83		16.487				ND	ND	
69 Tetrachloroethene	166	16.584	16.589	-0.005	81	2234	0.0401	0.0451	M
70 2-Hexanone	43	16.974	16.942	0.032	94	1338	0.0401	0.0363	
71 Chlorodibromomethane	129	17.269	17.269	0.000	88	1689	0.0401	0.0352	
72 Ethylene Dibromide	107	17.547	17.552	-0.005	94	1830	0.0401	0.0401	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	82	975999	10.0	10.0	
74 Chlorobenzene	112	18.515	18.520	-0.005	82	3603	0.0401	0.0509	
75 Ethylbenzene	91	18.654	18.659	-0.005	93	5546	0.0401	0.0518	
76 n-Nonane	57	18.756	18.761	-0.005	88	2199	0.0401	0.0478	
77 m-Xylene & p-Xylene	106	18.916	18.911	0.005	97	4088	0.0802	0.0905	
78 o-Xylene	106	19.719	19.729	-0.010	92	1993	0.0401	0.0446	
79 Styrene	104	19.778	19.778	0.000	92	2384	0.0401	0.0342	
S 80 Xylenes, Total	106				0		0.1203	0.1351	
81 Bromoform	173	20.190	20.189	0.001	87	1346	0.0401	0.0300	
82 Isopropylbenzene	105	20.366	20.361	0.005	92	6153	0.0401	0.0483	
* 83 4-Bromofluorobenzene	95	20.719	20.724	-0.005	98	658976	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.981	20.992	-0.011	96	2854	0.0401	0.0476	
86 N-Propylbenzene	91	21.046	21.045	0.001	99	6953	0.0401	0.0468	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.083	21.088	-0.005	93	2835	0.0401	0.0620	
88 n-Decane	57	21.190	21.190	0.000	83	3004	0.0401	0.0516	
89 4-Ethyltoluene	105	21.228	21.227	0.001	98	6154	0.0401	0.0478	
90 2-Chlorotoluene	91	21.244	21.243	0.001	85	5021	0.0401	0.0499	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	92	5141	0.0401	0.0484	
92 Alpha Methyl Styrene	118	21.688	21.682	0.006	83	836	0.0401	0.0149	
93 tert-Butylbenzene	119	21.795	21.800	-0.005	95	5083	0.0401	0.0480	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	94	5028	0.0401	0.0472	
95 sec-Butylbenzene	105	22.110	22.110	0.000	97	7298	0.0401	0.0471	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	96	6434	0.0401	0.0472	
97 1,3-Dichlorobenzene	146	22.351	22.356	-0.005	94	4160	0.0401	0.0508	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	95	4031	0.0401	0.0486	
99 Benzyl chloride	91	22.699	22.698	0.001	94	2572	0.0401	0.0297	
100 Undecane	57	22.902	22.896	0.006	74	2768	0.0401	0.0463	
101 n-Butylbenzene	91	22.897	22.902	-0.005	95	5461	0.0401	0.0476	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	95	4028	0.0401	0.0519	
103 Dodecane	57	24.550	24.549	0.001	35	1882	0.0401	0.0345	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	89	3413	0.0401	0.0476	
105 Hexachlorobutadiene	225	25.871	25.871	0.000	94	3338	0.0401	0.0501	
106 Naphthalene	128	26.219	26.219	0.000	98	6367	0.0401	0.0464	
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	94	3084	0.0401	0.0466	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL1w_00142	Amount Added:	40.00	Units: mL	
ATTO15GIS_00009	Amount Added:	20.00	Units: mL	Run Reagent

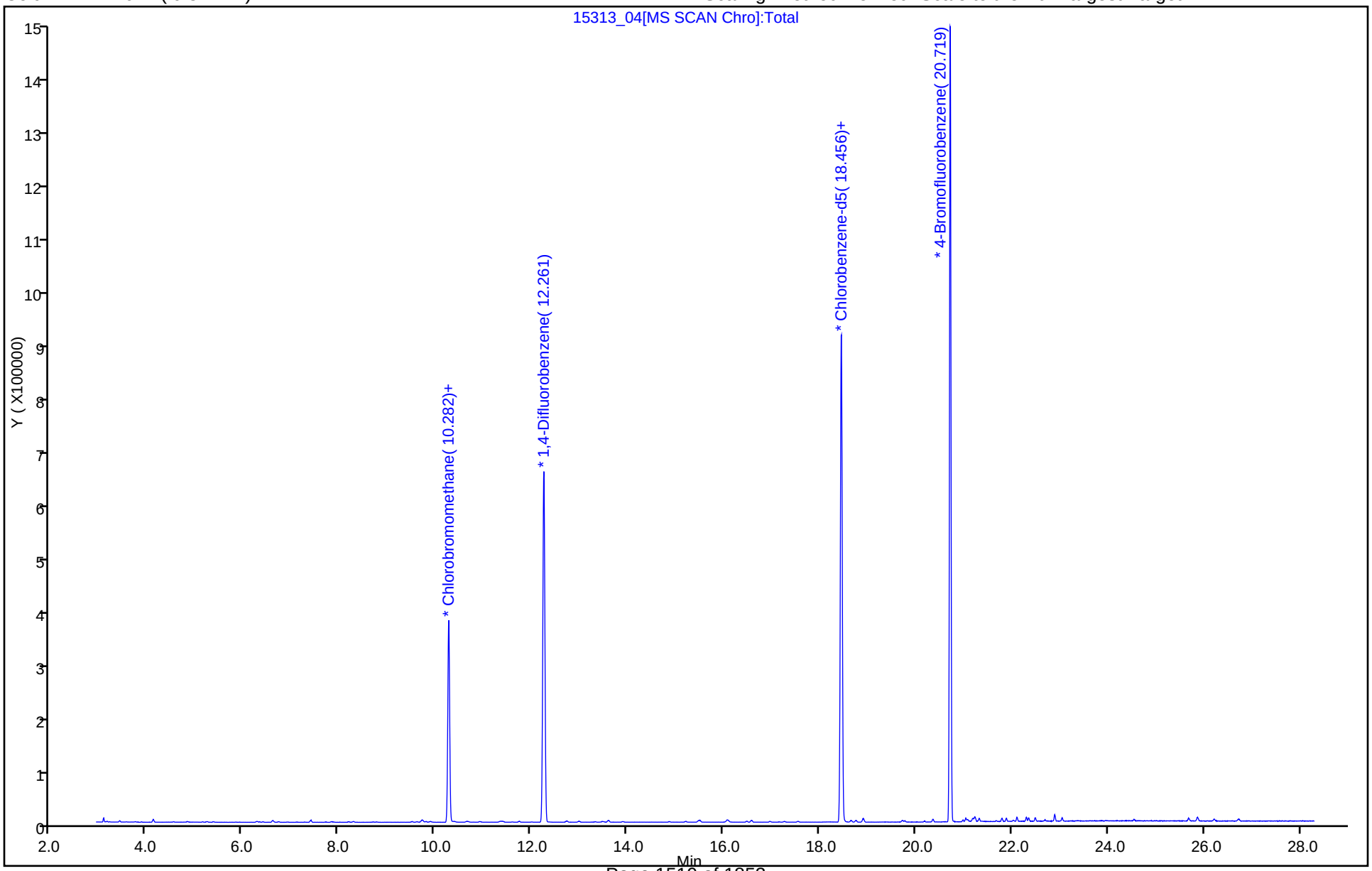
Report Date: 18-Aug-2015 11:12:24 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D

Injection Date:	17-Aug-2015 18:04:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

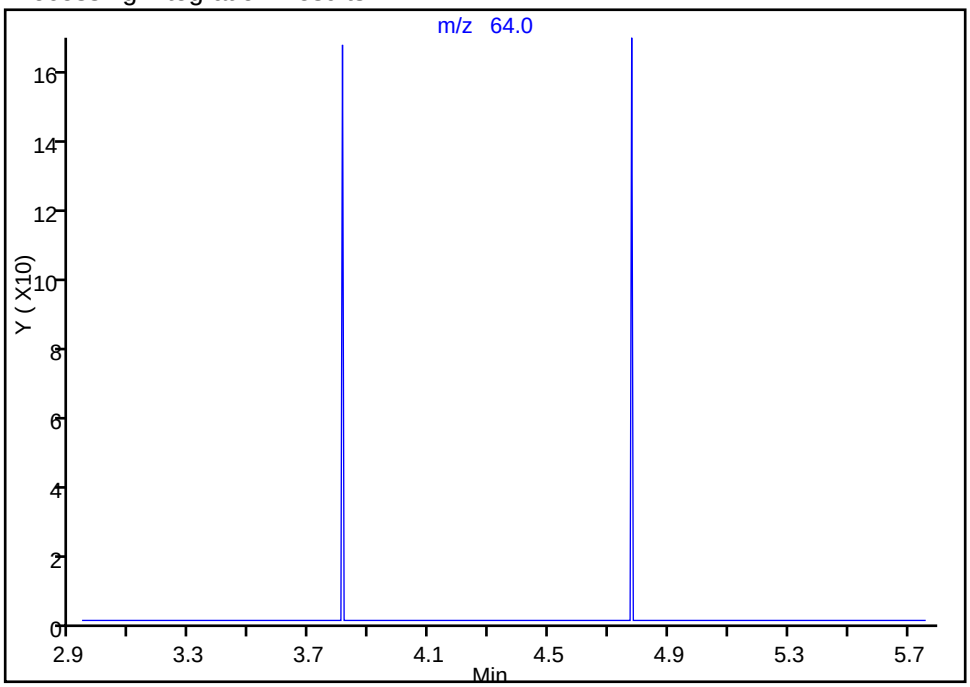
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D				
Injection Date:	17-Aug-2015 18:04:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

7 Vinyl chloride, CAS: 75-01-4

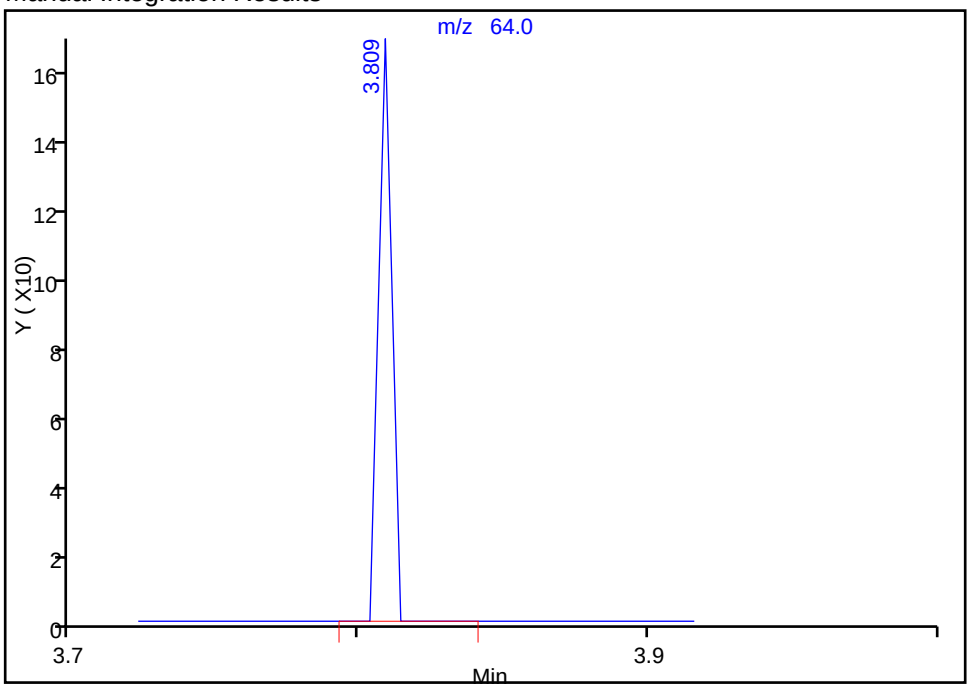
Processing Integration Results

RT: 3.76
Area: 0
Amount: 0.032411
Amount Units: ppb v/v



Manual Integration Results

RT: 3.81
Area: 52
Amount: 0.032411
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:13:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

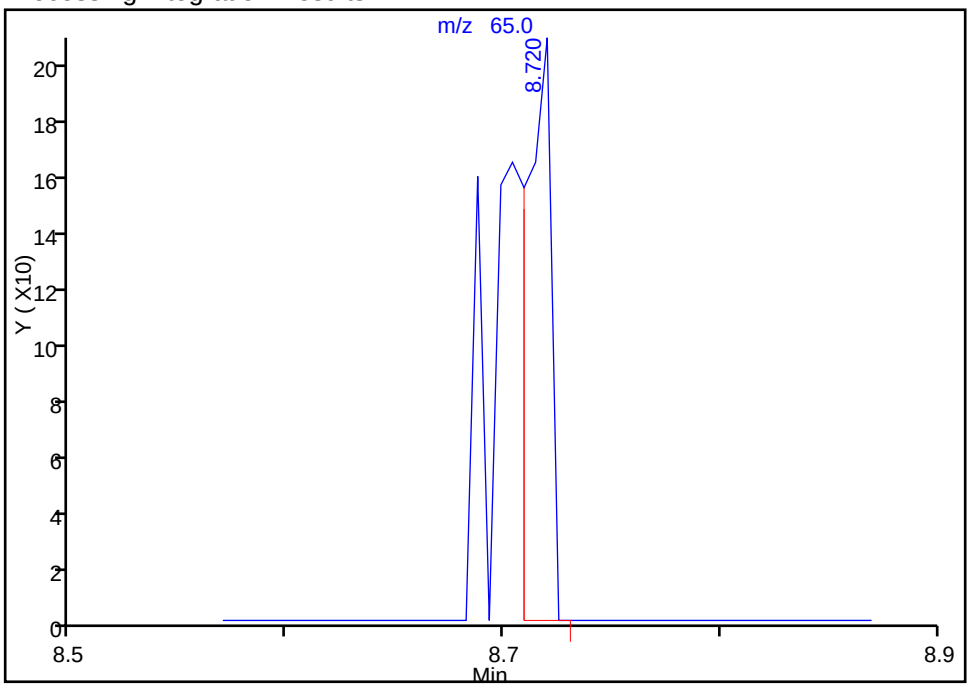
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D
Injection Date: 17-Aug-2015 18:04:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

33 1,1-Dichloroethane, CAS: 75-34-3

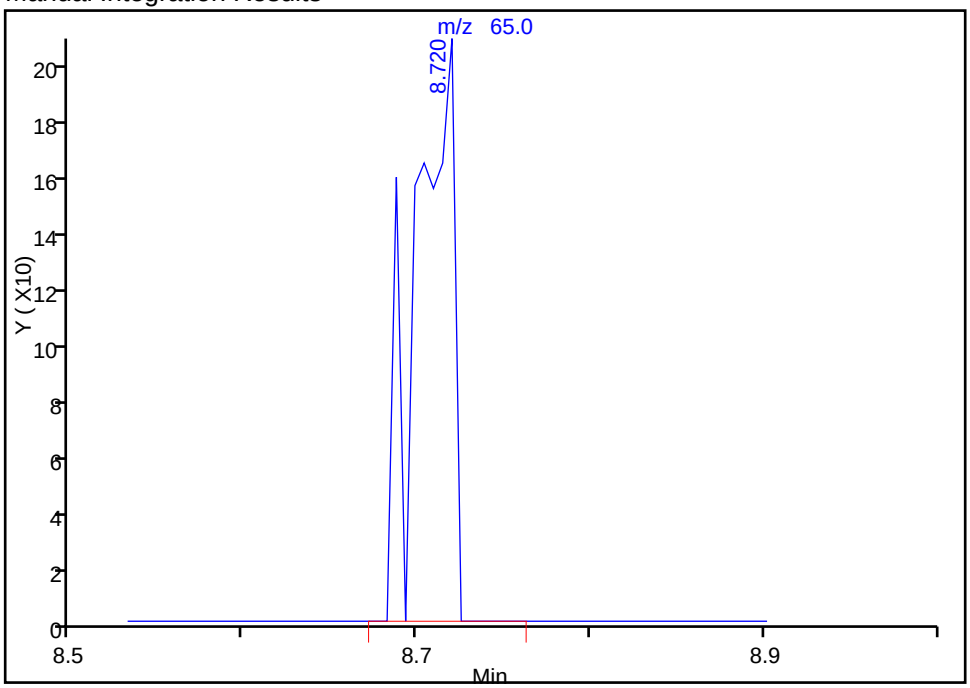
Processing Integration Results

RT: 8.72
Area: 167
Amount: 0.044299
Amount Units: ppb v/v



Manual Integration Results

RT: 8.72
Area: 319
Amount: 0.044299
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:13:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

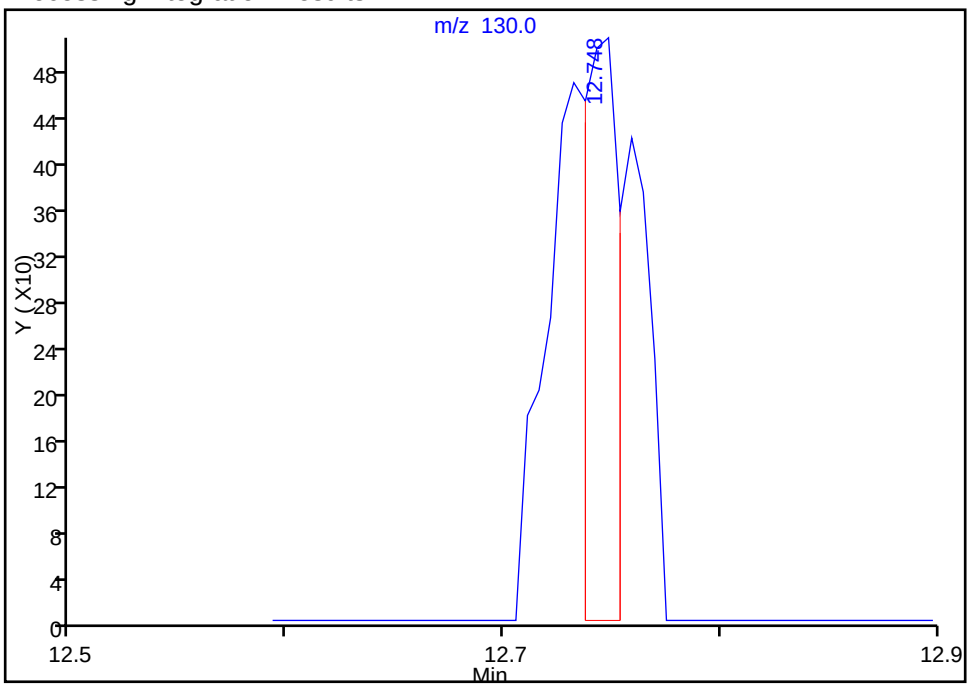
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D
Injection Date: 17-Aug-2015 18:04:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

52 Trichloroethene, CAS: 79-01-6

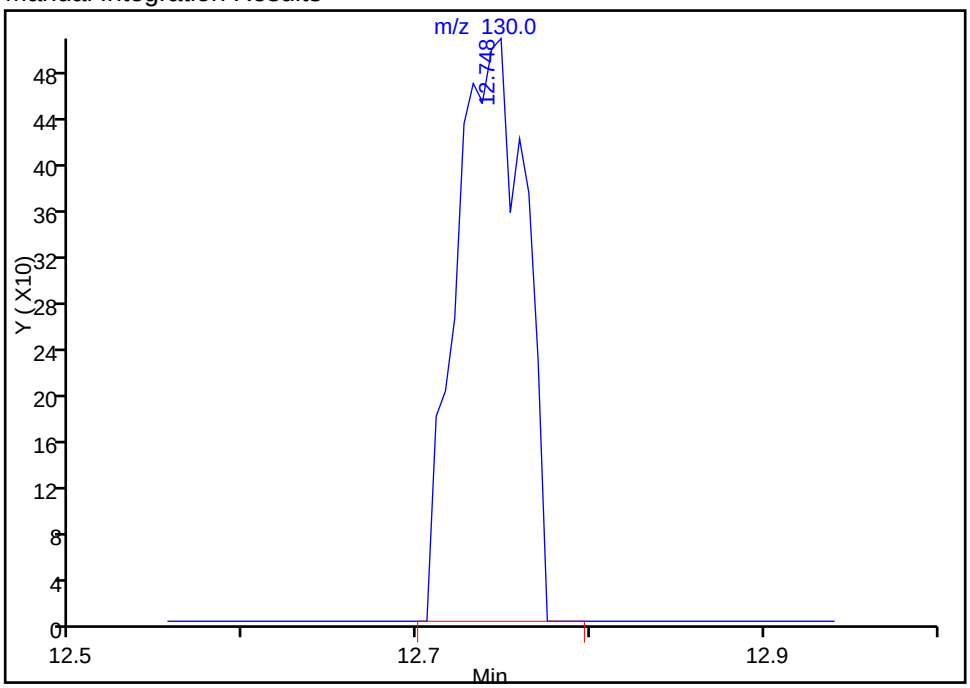
Processing Integration Results

RT: 12.75
Area: 581
Amount: 0.046885
Amount Units: ppb v/v



Manual Integration Results

RT: 12.75
Area: 1402
Amount: 0.046885
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:13:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

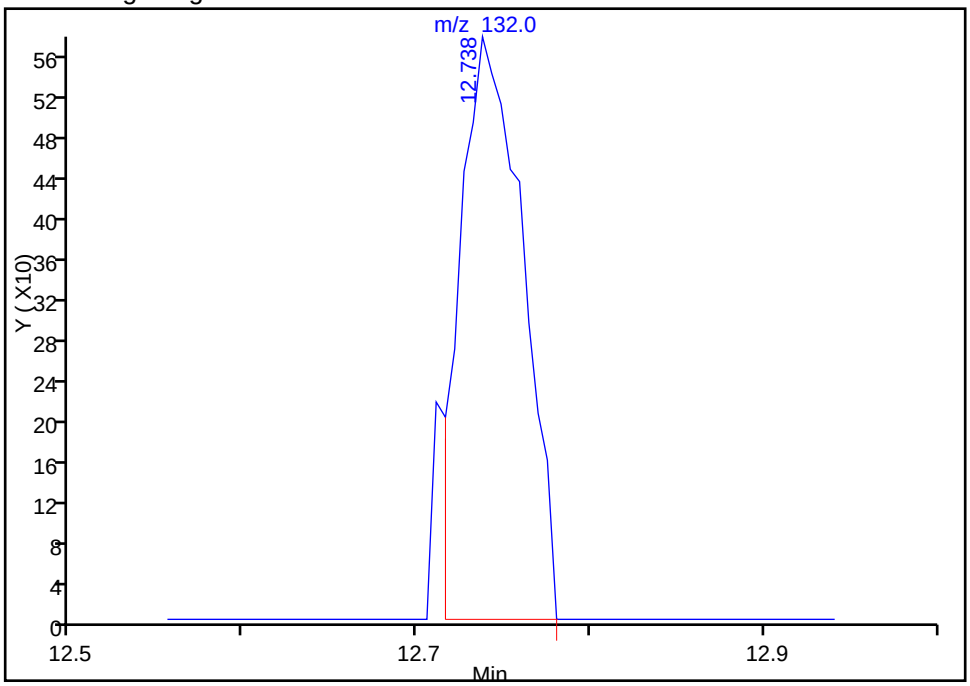
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D
Injection Date: 17-Aug-2015 18:04:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

52 Trichloroethene, CAS: 79-01-6

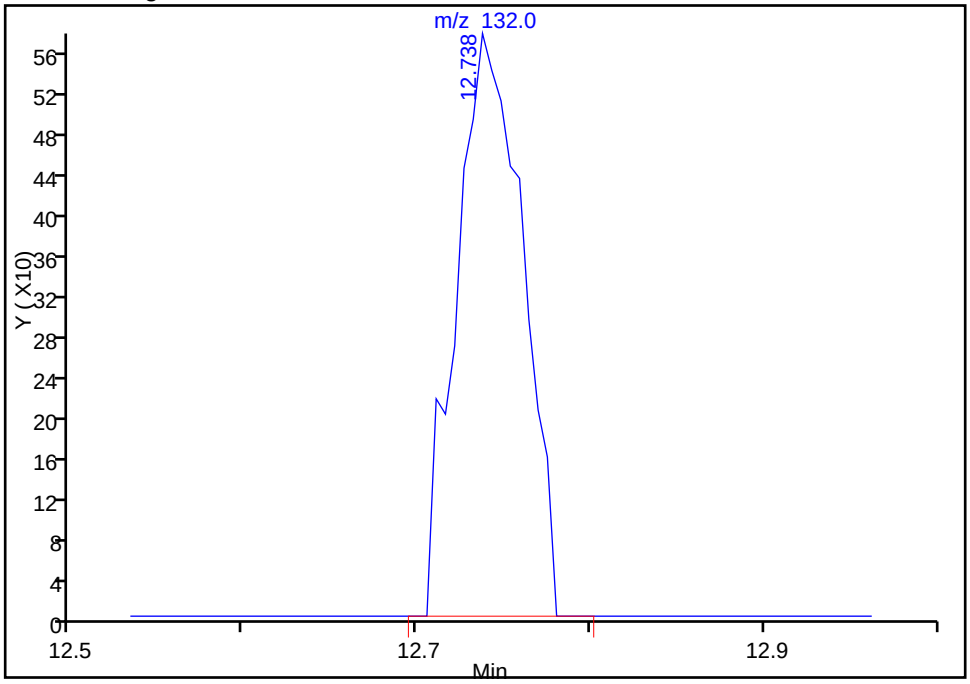
Processing Integration Results

RT: 12.74
Area: 1450
Amount: 0.046885
Amount Units: ppb v/v



Manual Integration Results

RT: 12.74
Area: 1519
Amount: 0.046885
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:13:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

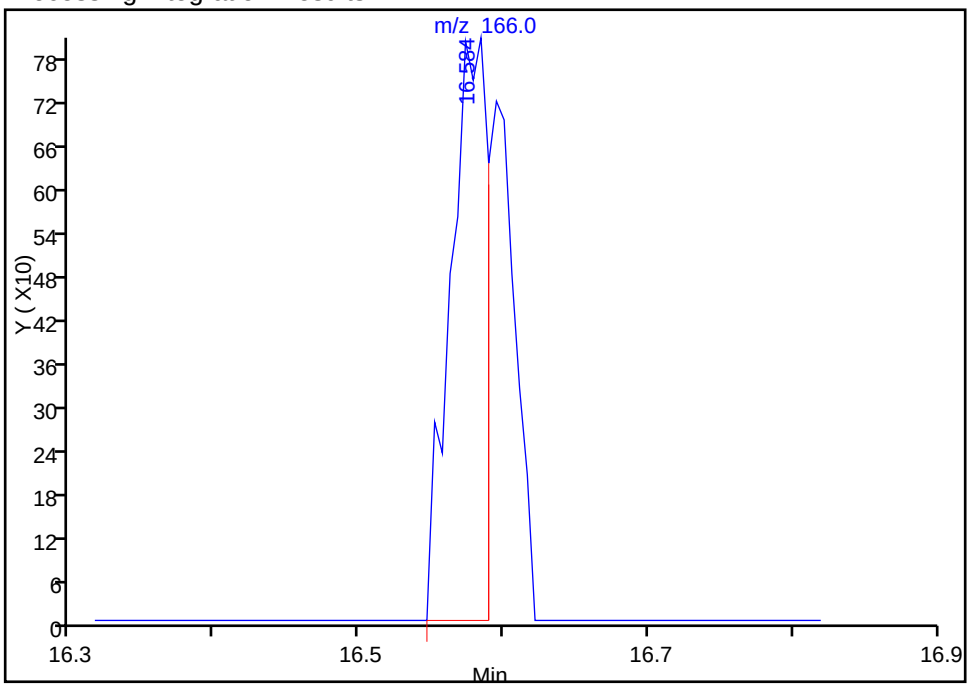
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_04.D
Injection Date: 17-Aug-2015 18:04:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

69 Tetrachloroethene, CAS: 127-18-4

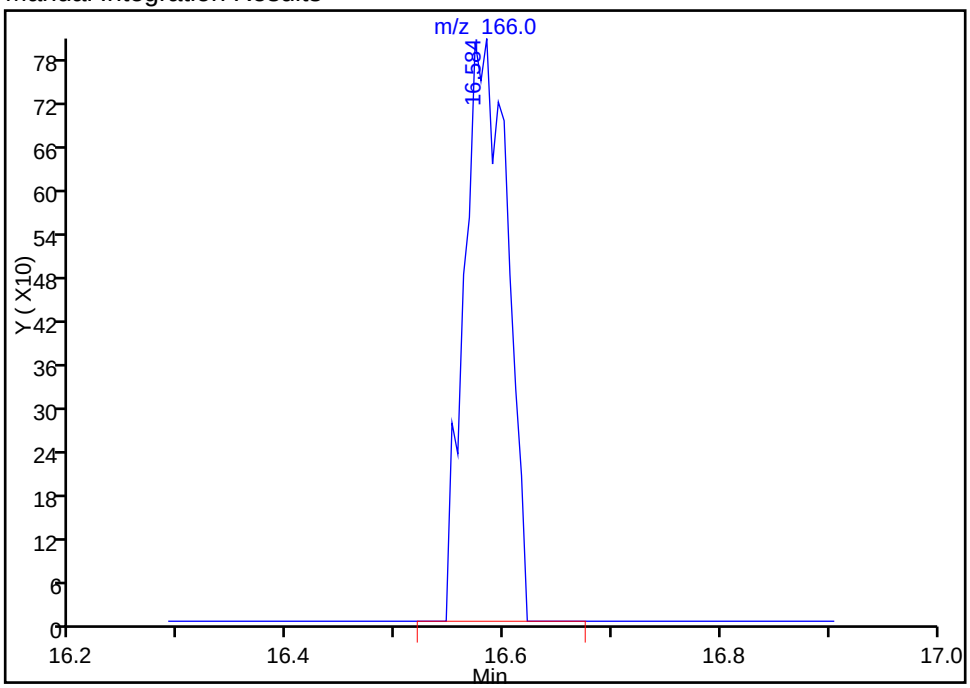
Processing Integration Results

RT: 16.58
Area: 1458
Amount: 0.030973
Amount Units: ppb v/v



Manual Integration Results

RT: 16.58
Area: 2234
Amount: 0.045138
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:13:22
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Aug-2015 18:54:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-005
Misc. Info.: ic-02
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:26 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:17:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	84	3764	0.2002	0.5041	
2 Dichlorodifluoromethane	85	3.167	3.161	0.006	98	7712	0.2002	0.2206	
3 Chlorodifluoromethane	51	3.215	3.209	0.006	95	3790	0.2002	0.2241	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.424	3.423	0.001	89	7340	0.2002	0.2065	
5 Chloromethane	50	3.568	3.563	0.005	97	2366	0.2002	0.2405	
6 Butane	43	3.761	3.755	0.006	99	4324	0.2002	0.2676	
7 Vinyl chloride	62	3.803	3.803	0.000	95	2751	0.2002	0.2217	
8 Butadiene	54	3.878	3.878	0.000	92	1811	0.2002	0.2032	
9 Bromomethane	94	4.547	4.547	0.000	95	2883	0.2002	0.2052	
10 Chloroethane	64	4.777	4.777	0.000	82	1187	0.2002	0.1894	
11 2-Methylbutane	43	4.841	4.841	0.000	83	2913	0.2002	0.2518	
12 Vinyl bromide	106	5.157	5.157	0.000	94	3330	0.2002	0.2054	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	96	8046	0.2002	0.2087	
14 Pentane	43	5.376	5.376	0.000	93	4490	0.2002	0.2440	
15 Ethanol	45	5.831	5.804	0.027	99	7513	2.00	1.95	
16 Ethyl ether	59	5.922	5.895	0.027	85	1517	0.2002	0.1874	
17 Acrolein	56	6.296	6.280	0.016	44	754	0.2002	0.2476	
18 1,1,2-Trichloro-1,2,2-trif	101	6.286	6.286	0.000	92	6670	0.2002	0.2161	
20 1,1-Dichloroethene	96	6.339	6.344	-0.005	86	2899	0.2002	0.2009	
21 Acetone	43	6.612	6.585	0.027	91	8413	0.2002	0.5348	
22 Carbon disulfide	76	6.735	6.740	-0.005	97	7868	0.2002	0.2146	
23 Isopropyl alcohol	45	6.922	6.863	0.059	43	3912	0.2002	0.2624	
24 3-Chloro-1-propene	41	7.115	7.115	0.000	91	2737	0.2002	0.2248	M
25 Acetonitrile	41	7.275	7.265	0.010	95	1972	0.2002	0.2644	M
26 Methylene Chloride	49	7.409	7.409	0.000	83	4786	0.2002	0.3613	
28 2-Methyl-2-propanol	59	7.698	7.639	0.059	95	5316	0.2002	0.2224	M
29 Methyl tert-butyl ether	73	7.858	7.800	0.058	96	8336	0.2002	0.2089	
30 trans-1,2-Dichloroethene	61	7.832	7.837	-0.005	87	3908	0.2002	0.2109	
31 Acrylonitrile	53	8.008	8.003	0.005	95	1820	0.2002	0.2117	M
32 Hexane	57	8.206	8.201	0.005	89	4353	0.2002	0.2212	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	97	4996	0.2002	0.1997	
34 Vinyl acetate	43	8.779	8.773	0.006	99	6316	0.2002	0.2153	
35 cis-1,2-Dichloroethene	96	9.811	9.816	-0.005	91	3831	0.2002	0.2104	M
36 2-Butanone (MEK)	72	9.891	9.865	0.026	96	2092	0.2002	0.2506	
37 Ethyl acetate	88		9.897				ND	ND	
S 38 1,2-Dichloroethene, Total	61				0		0.4004	0.4213	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	77	179741	10.0	10.0	
39 Tetrahydrofuran	42	10.325	10.287	0.038	88	3096	0.2002	0.2205	
41 Chloroform	83	10.400	10.410	-0.010	98	7080	0.2002	0.2120	
42 Cyclohexane	84	10.651	10.656	-0.005	86	5156	0.2002	0.2090	M
43 1,1,1-Trichloroethane	97	10.688	10.688	0.000	95	7236	0.2002	0.2014	M
44 Carbon tetrachloride	117	10.924	10.934	-0.010	94	7250	0.2002	0.1937	
45 Isooctane	57	11.357	11.362	-0.005	99	16933	0.2002	0.2054	
46 Benzene	78	11.421	11.416	0.005	93	12116	0.2002	0.2106	
47 1,2-Dichloroethane	62	11.603	11.609	-0.006	95	4190	0.2002	0.2075	M
48 n-Heptane	43	11.742	11.753	-0.011	85	5858	0.2002	0.2110	M
* 50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	92	985358	10.0	10.0	
51 n-Butanol	56	12.716	12.668	0.048	81	2386	0.2002	0.2493	M
52 Trichloroethene	95	12.737	12.743	-0.006	94	5905	0.2002	0.2037	
53 1,2-Dichloropropane	63	13.331	13.336	-0.005	94	4419	0.2002	0.2021	M
54 Methyl methacrylate	69	13.502	13.492	0.010	80	4430	0.2002	0.2033	
55 1,4-Dioxane	88	13.609	13.567	0.042	49	3290	0.2002	0.3045	
56 Dibromomethane	174	13.604	13.609	-0.005	88	7879	0.2002	0.2260	
57 Dichlorobromomethane	83	13.904	13.909	-0.005	96	7721	0.2002	0.1880	M
58 cis-1,3-Dichloropropene	75	14.872	14.877	-0.005	87	6642	0.2002	0.1936	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	2916096	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	2916096	0.2002	58.1	
61 4-Methyl-2-pentanone (MIBK	43	15.214	15.177	0.037	91	7779	0.2002	0.2068	
A 63 Toluene Range	1		(15.472-15.492)				NC	ND	
62 Toluene	92	15.482	15.482	0.000	95	10378	0.2002	0.2100	M
A 65 GRO	1	15.514	(15.514-15.514)		0	71308	0.2002	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	85	9312	0.2002	0.2179	M
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	91	7682	0.2002	0.2147	M
68 1,1,2-Trichloroethane	83	16.493	16.487	0.006	95	4842	0.2002	0.2100	
69 Tetrachloroethene	166	16.584	16.589	-0.005	95	9626	0.2002	0.1956	
70 2-Hexanone	43	16.969	16.942	0.027	93	6341	0.2002	0.1728	
71 Chlorodibromomethane	129	17.269	17.269	0.000	96	8380	0.2002	0.1758	
72 Ethylene Dibromide	107	17.552	17.552	0.000	97	8833	0.2002	0.1948	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	82	970659	10.0	10.0	
74 Chlorobenzene	112	18.515	18.520	-0.005	97	14098	0.2002	0.2003	
75 Ethylbenzene	91	18.660	18.659	0.001	97	21560	0.2002	0.2023	
76 n-Nonane	57	18.761	18.761	0.000	84	9701	0.2002	0.2121	
77 m-Xylene & p-Xylene	106	18.911	18.911	0.000	99	18319	0.4004	0.4077	
78 o-Xylene	106	19.724	19.729	-0.005	94	9032	0.2002	0.2034	
79 Styrene	104	19.778	19.778	0.000	98	13694	0.2002	0.1976	
S 80 Xylenes, Total	106				0		0.6005	0.6111	
81 Bromoform	173	20.190	20.189	0.001	98	6509	0.2002	0.1461	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	25764	0.2002	0.2034	
* 83 4-Bromofluorobenzene	95	20.719	20.724	-0.005	99	654784	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.987	20.992	-0.005	98	12316	0.2002	0.2066	
86 N-Propylbenzene	91	21.046	21.045	0.001	99	30105	0.2002	0.2039	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.083	21.088	-0.005	96	9873	0.2002	0.2172	
88 n-Decane	57	21.190	21.190	0.000	85	12741	0.2002	0.2202	
89 4-Ethyltoluene	105	21.227	21.227	0.000	98	26312	0.2002	0.2055	
90 2-Chlorotoluene	91	21.243	21.243	0.000	96	20902	0.2002	0.2087	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	95	21561	0.2002	0.2040	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	91	10730	0.2002	0.1926	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	22029	0.2002	0.2092	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	96	21469	0.2002	0.2027	
95 sec-Butylbenzene	105	22.110	22.110	0.000	99	31149	0.2002	0.2023	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	27549	0.2002	0.2032	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	98	16631	0.2002	0.2041	
98 1,4-Dichlorobenzene	146	22.490	22.495	-0.005	97	16984	0.2002	0.2060	
99 Benzyl chloride	91	22.699	22.698	0.001	100	16566	0.2002	0.1921	
100 Undecane	57	22.897	22.896	0.000	74	14318	0.2002	0.2411	
101 n-Butylbenzene	91	22.902	22.902	0.000	95	25035	0.2002	0.2194	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	99	15918	0.2002	0.2061	
103 Dodecane	57	24.550	24.549	0.001	93	12925	0.2002	0.2383	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	14009	0.2002	0.1966	
105 Hexachlorobutadiene	225	25.871	25.871	0.000	97	13607	0.2002	0.2052	
106 Naphthalene	128	26.219	26.219	0.000	99	25490	0.2002	0.1868	
107 1,2,3-Trichlorobenzene	180	26.732	26.727	0.005	95	13086	0.2002	0.1986	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL2w_00192	Amount Added:	80.00	Units: mL	
ATTO15GIS_00009	Amount Added:	20.00	Units: mL	Run Reagent

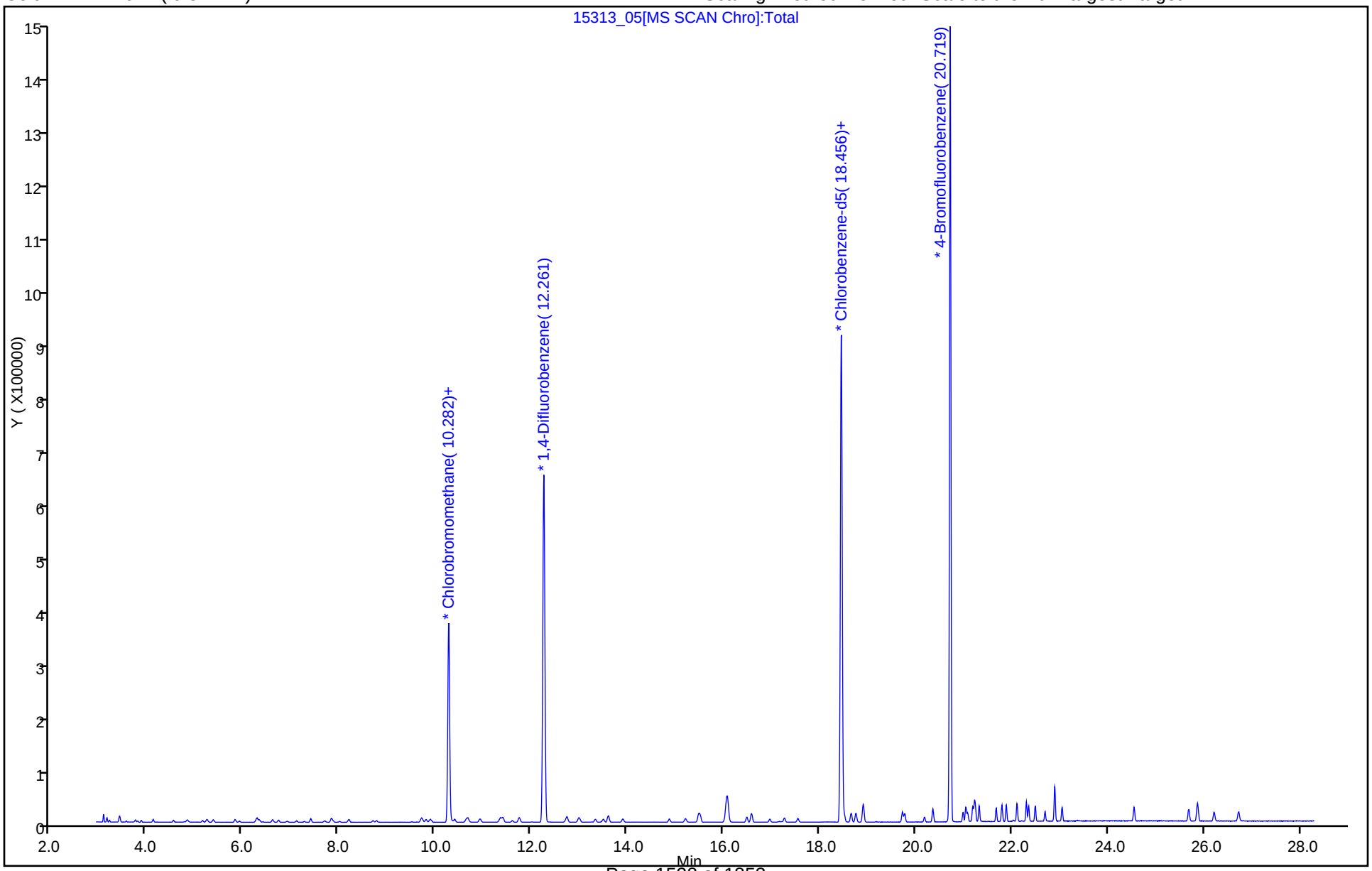
Report Date: 18-Aug-2015 11:12:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D

Injection Date:	17-Aug-2015 18:54:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

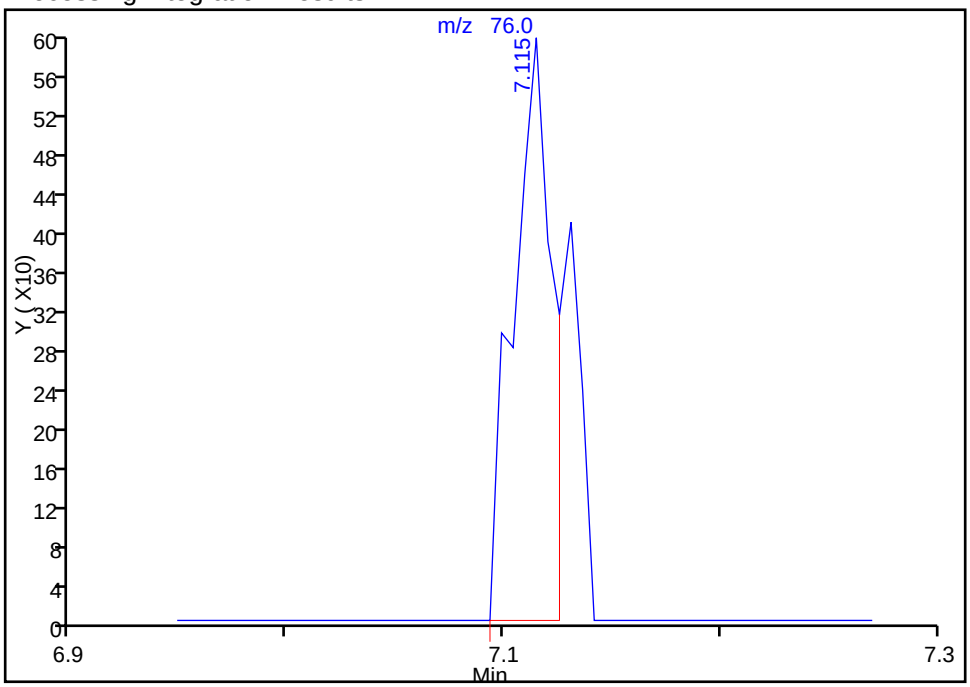
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

24 3-Chloro-1-propene, CAS: 107-05-1

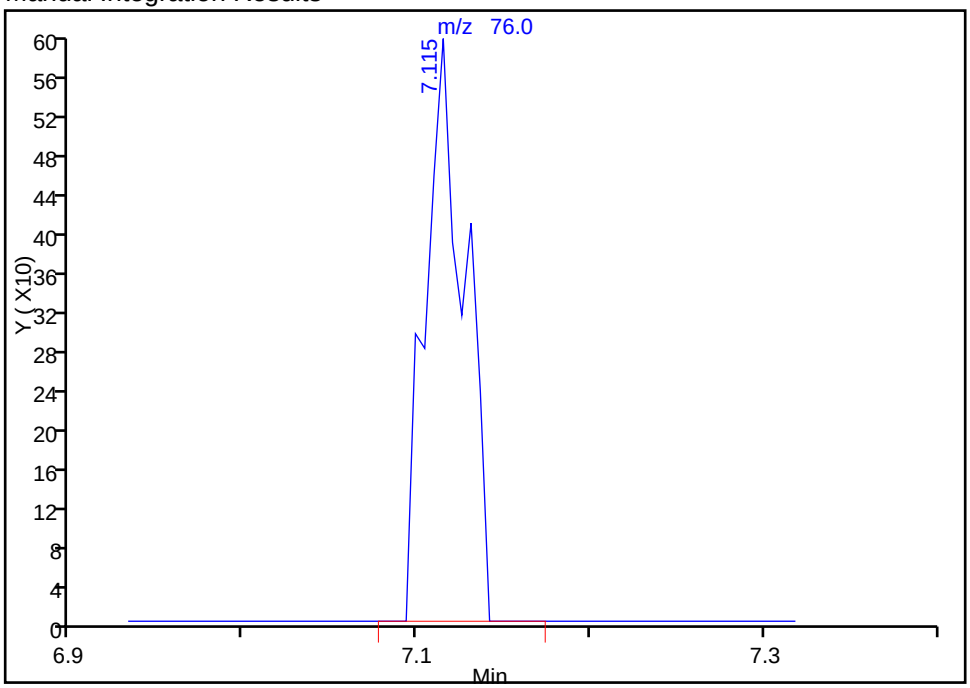
Processing Integration Results

RT: 7.11
Area: 751
Amount: 0.224758
Amount Units: ppb v/v



Manual Integration Results

RT: 7.11
Area: 959
Amount: 0.224758
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

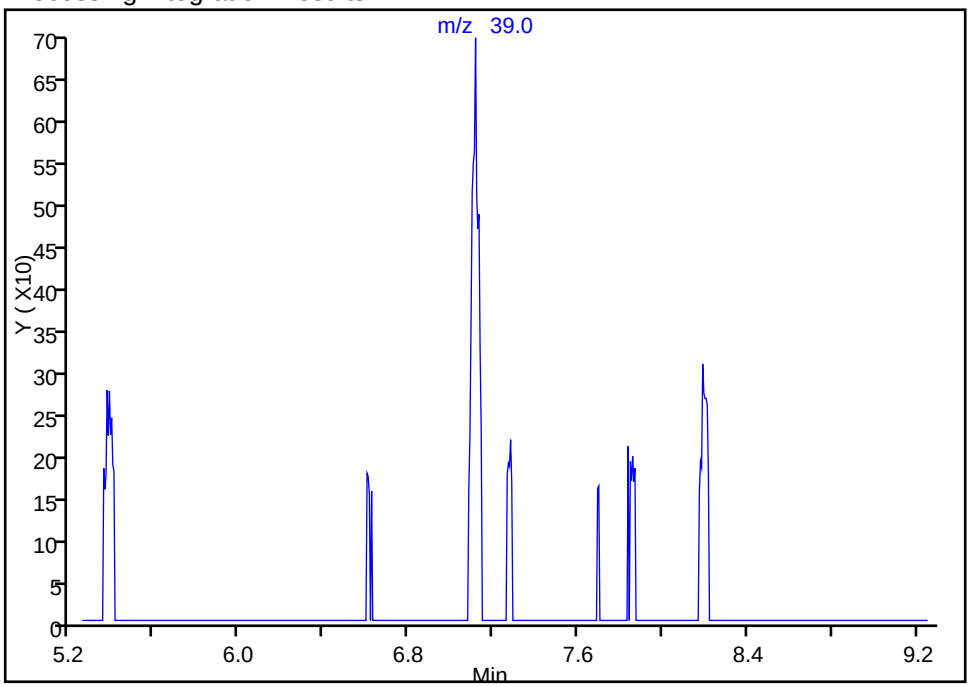
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D				
Injection Date:	17-Aug-2015 18:54:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 Acetonitrile, CAS: 75-05-8

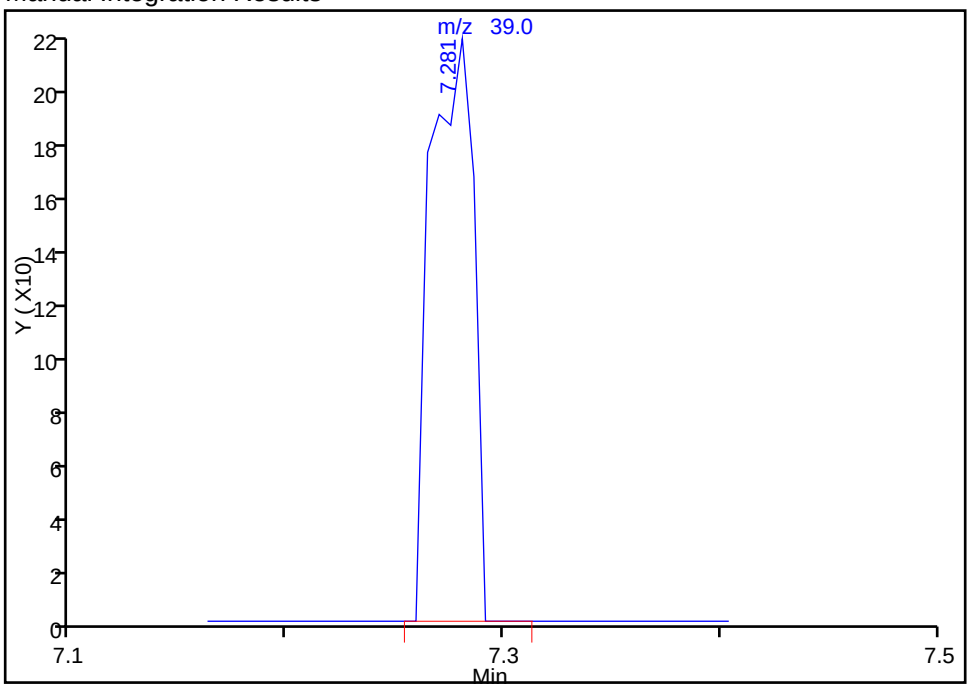
Processing Integration Results

RT: 7.25
Area: 0
Amount: 0.264435
Amount Units: ppb v/v



Manual Integration Results

RT: 7.28
Area: 296
Amount: 0.264435
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

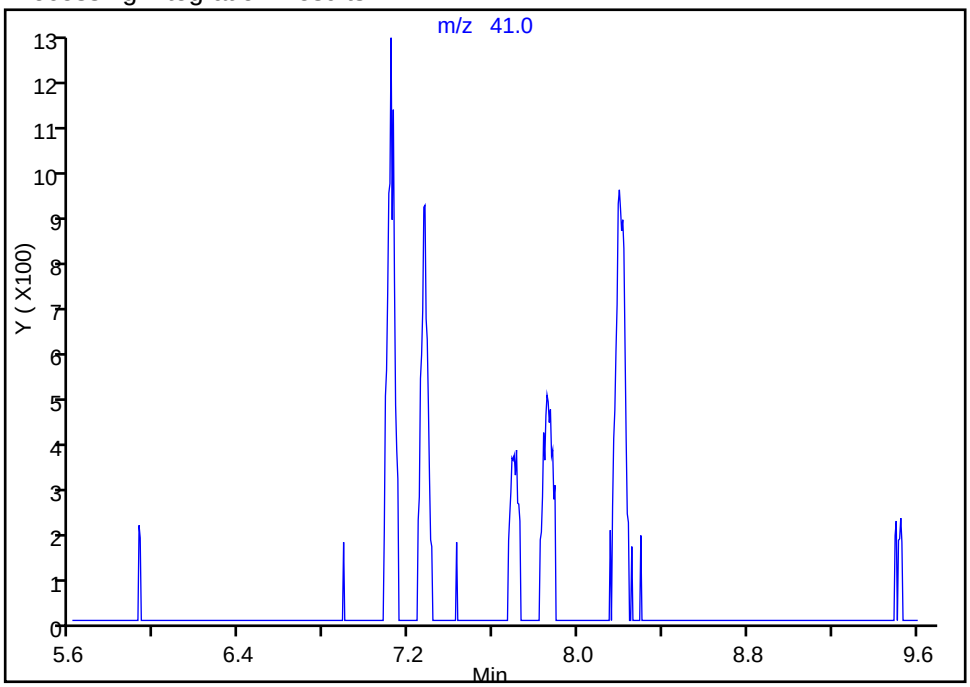
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

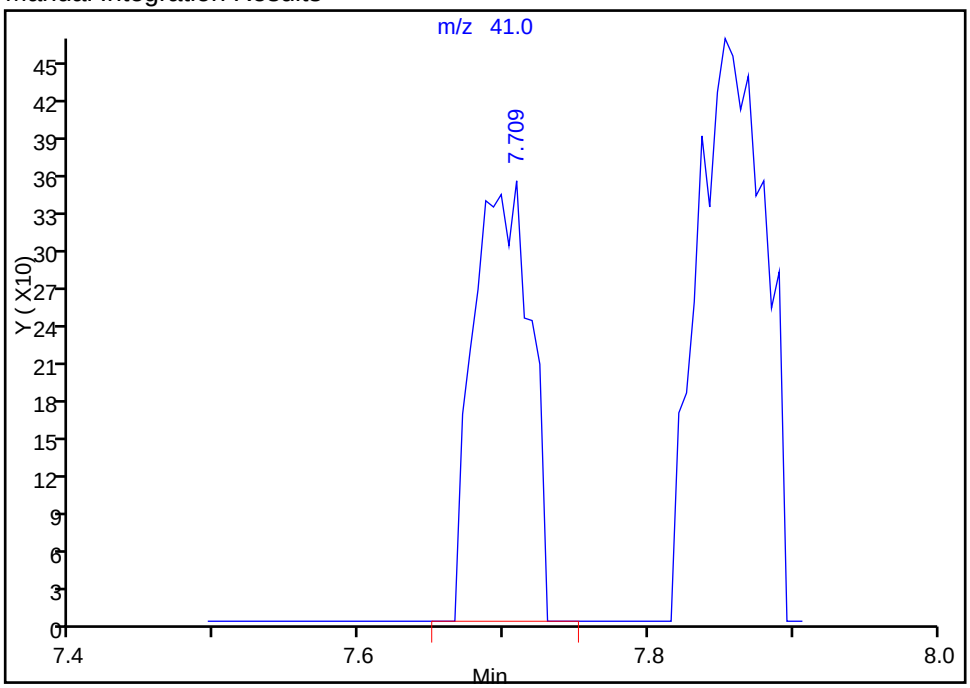
Processing Integration Results

RT: 7.61
Area: 0
Amount: 0.222437
Amount Units: ppb v/v



Manual Integration Results

RT: 7.71
Area: 965
Amount: 0.222437
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

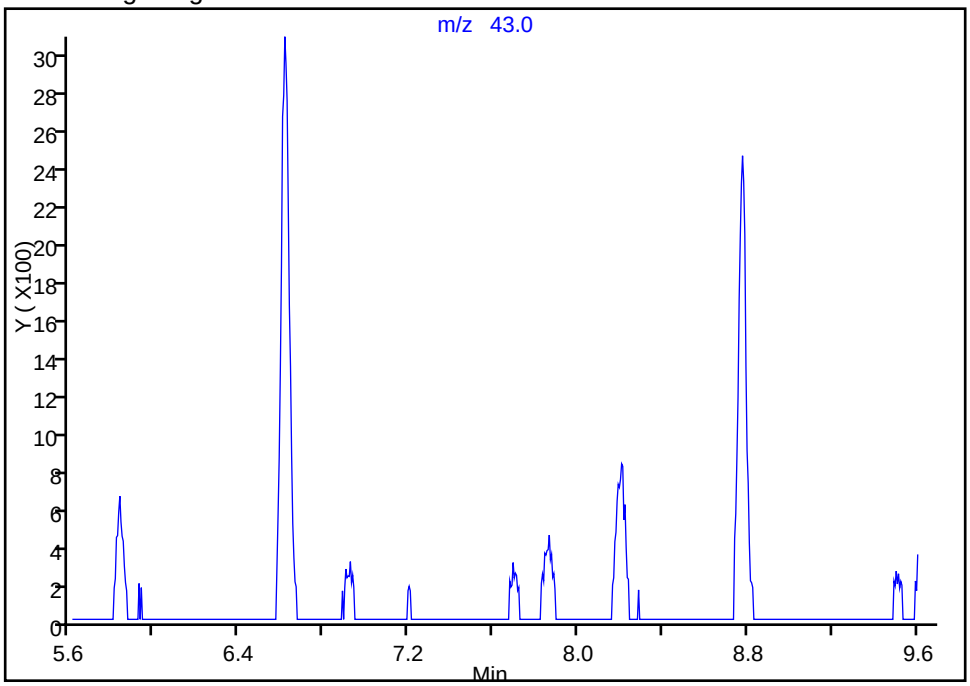
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D				
Injection Date:	17-Aug-2015 18:54:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

28 2-Methyl-2-propanol, CAS: 75-65-0

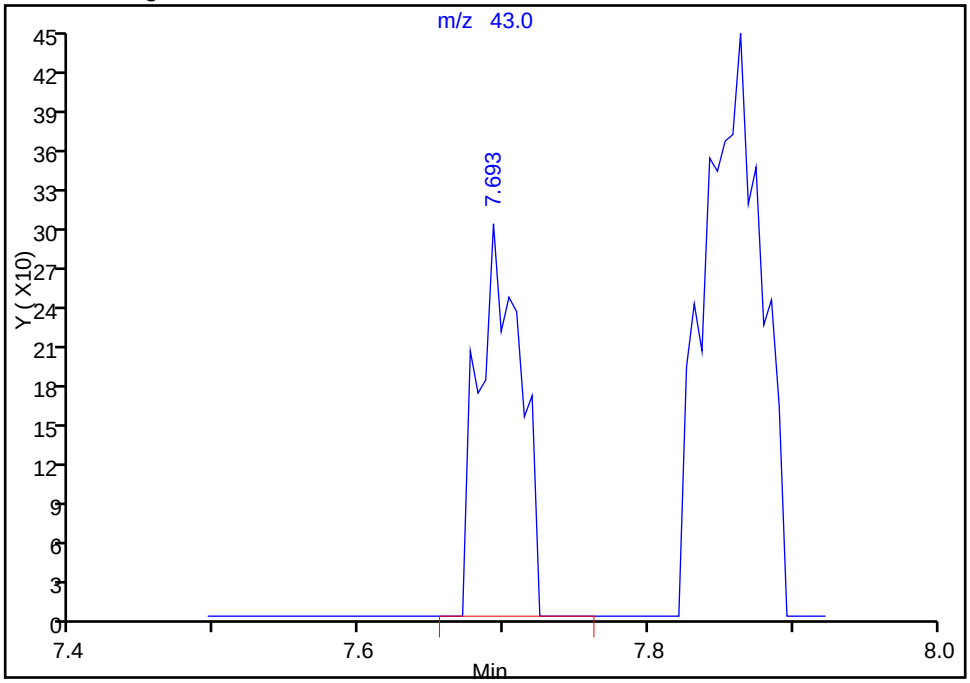
Processing Integration Results

RT: 7.61
Area: 0
Amount: 0.222437
Amount Units: ppb v/v



Manual Integration Results

RT: 7.69
Area: 598
Amount: 0.222437
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

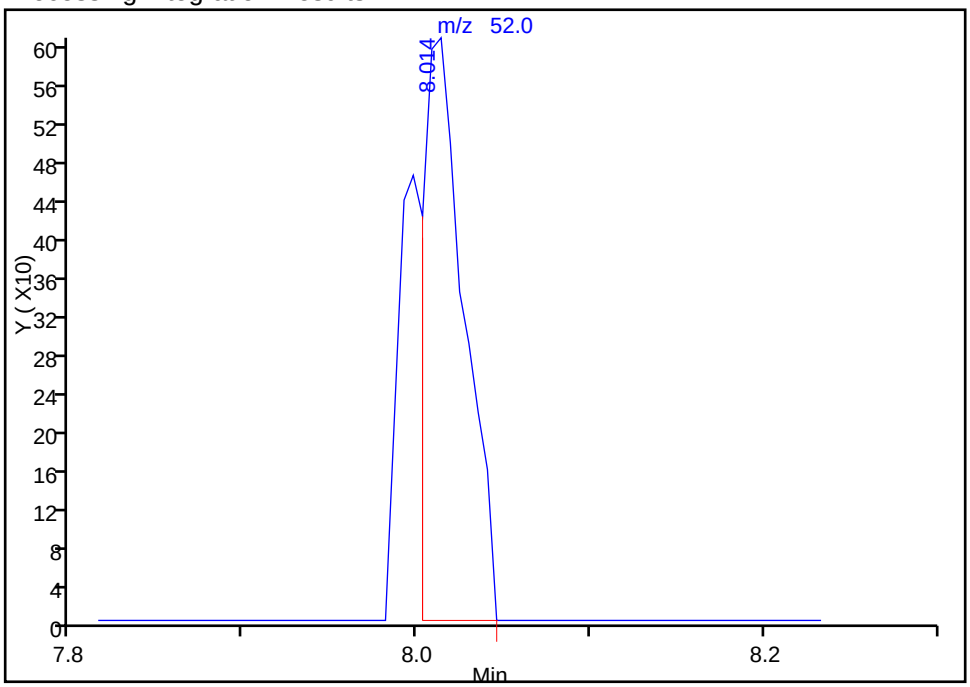
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

31 Acrylonitrile, CAS: 107-13-1

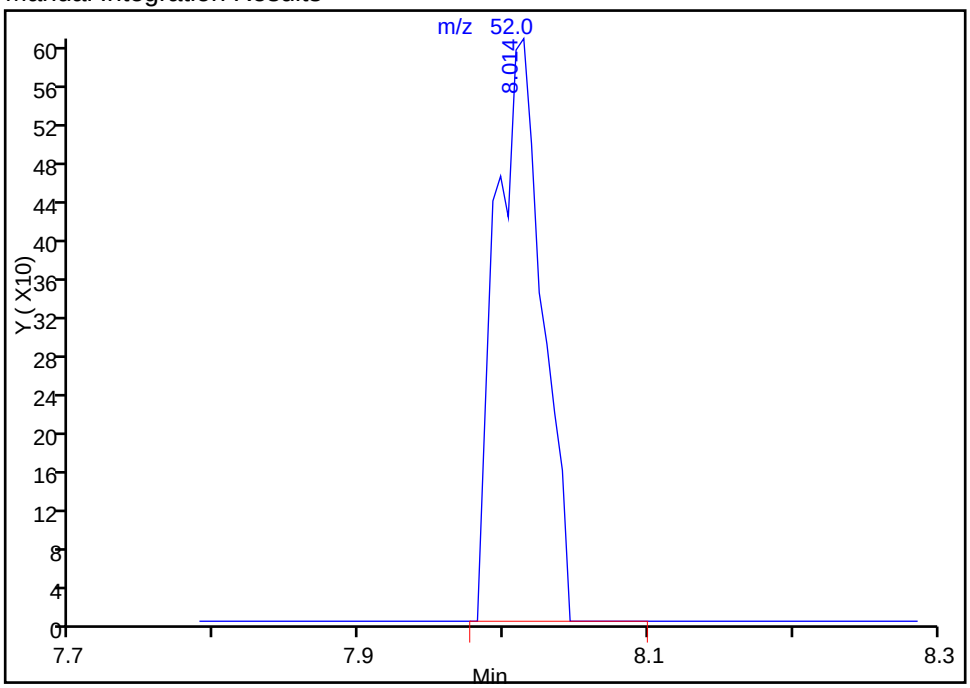
Processing Integration Results

RT: 8.01
Area: 1008
Amount: 0.211666
Amount Units: ppb v/v



Manual Integration Results

RT: 8.01
Area: 1370
Amount: 0.211666
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

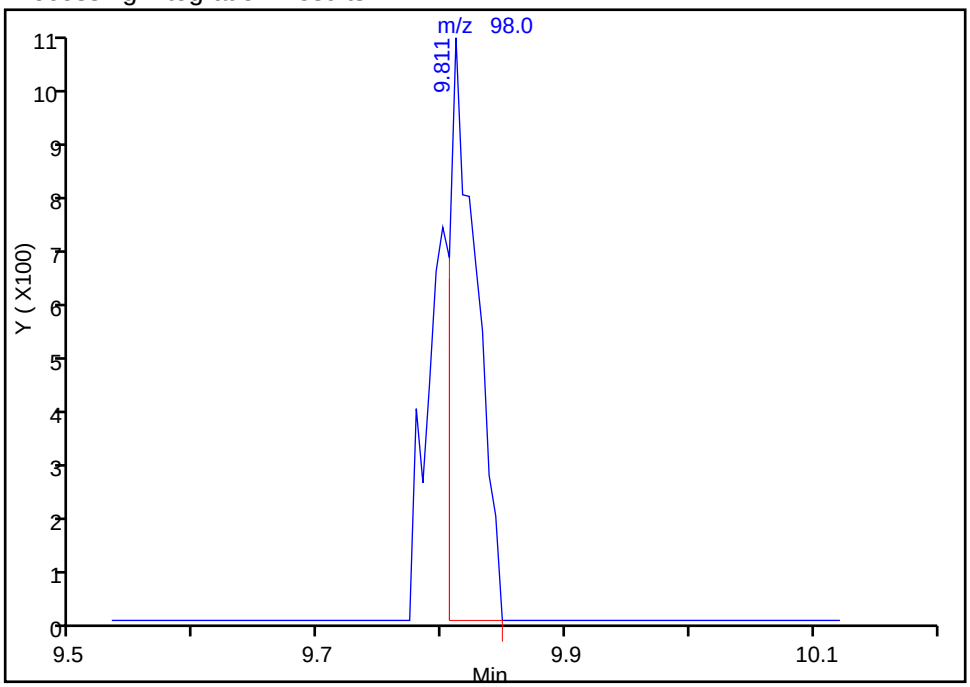
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

35 cis-1,2-Dichloroethene, CAS: 156-59-2

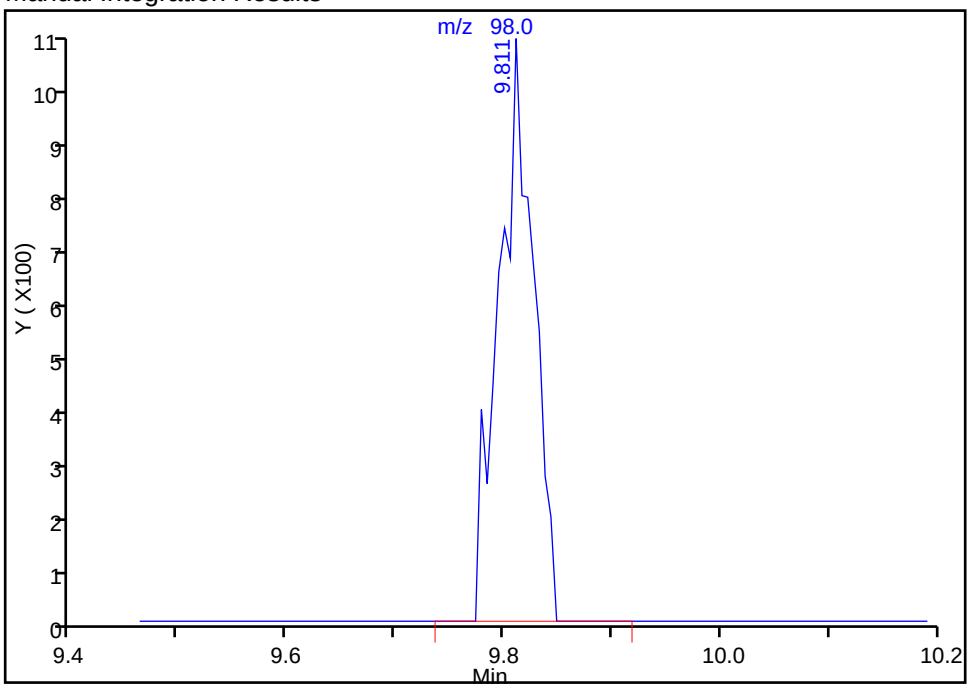
Processing Integration Results

RT: 9.81
Area: 1594
Amount: 0.210408
Amount Units: ppb v/v



Manual Integration Results

RT: 9.81
Area: 2382
Amount: 0.210408
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

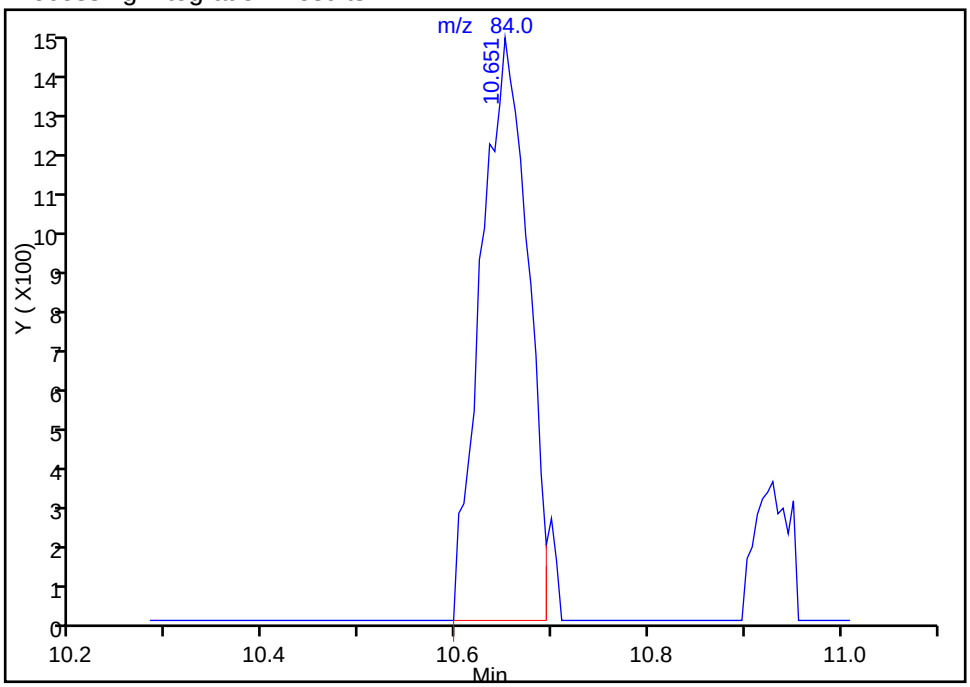
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

42 Cyclohexane, CAS: 110-82-7

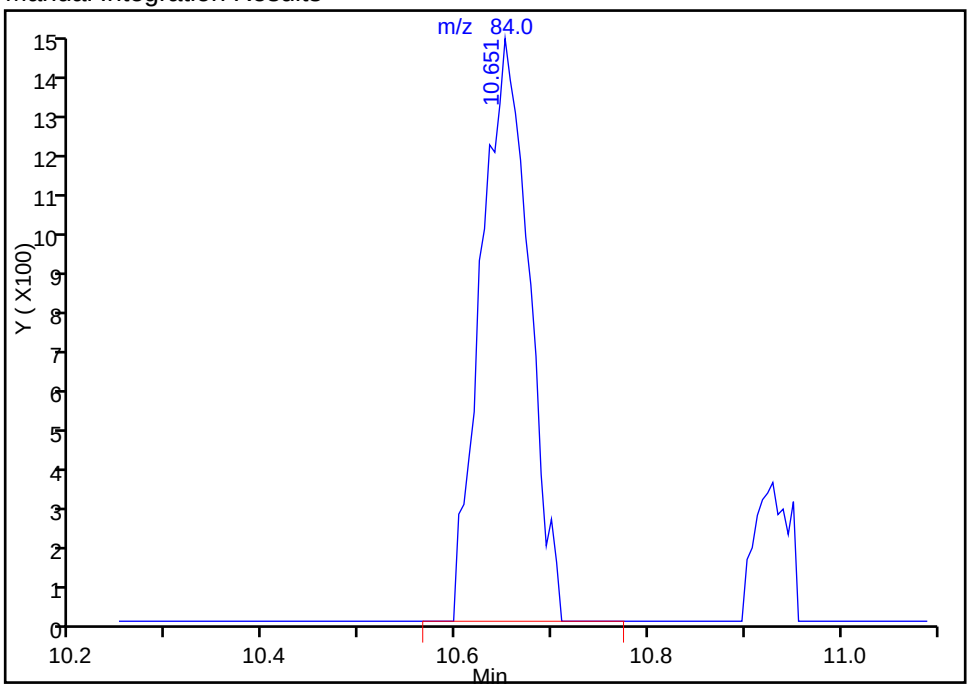
Processing Integration Results

RT: 10.65
Area: 5023
Amount: 0.216315
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 5156
Amount: 0.209049
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

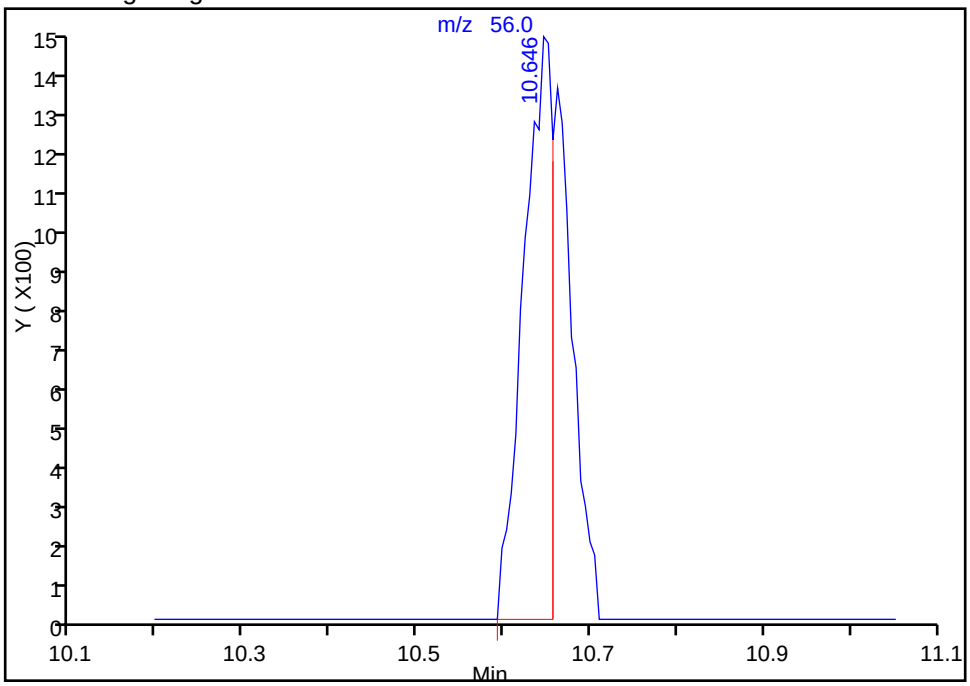
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

42 Cyclohexane, CAS: 110-82-7

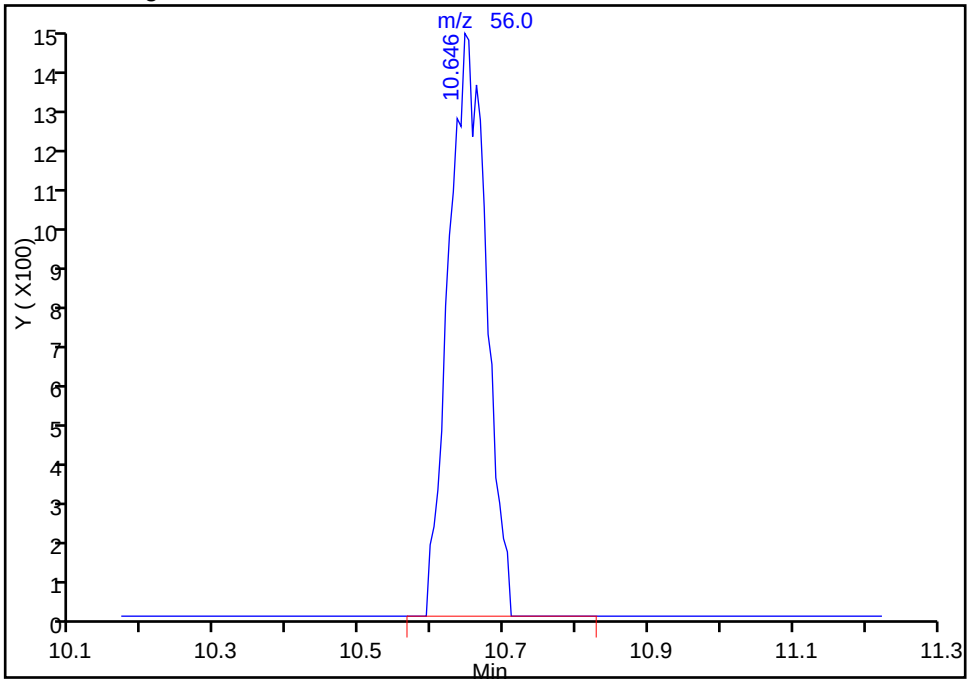
Processing Integration Results

RT: 10.65
Area: 3262
Amount: 0.216315
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 5091
Amount: 0.209049
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

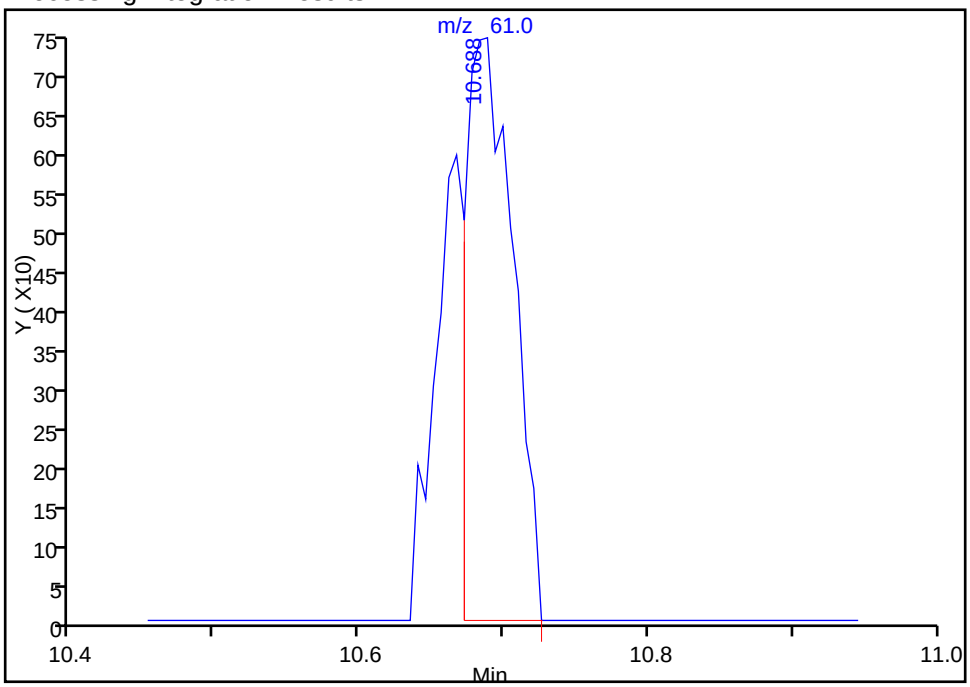
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D				
Injection Date:	17-Aug-2015 18:54:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 1,1,1-Trichloroethane, CAS: 71-55-6

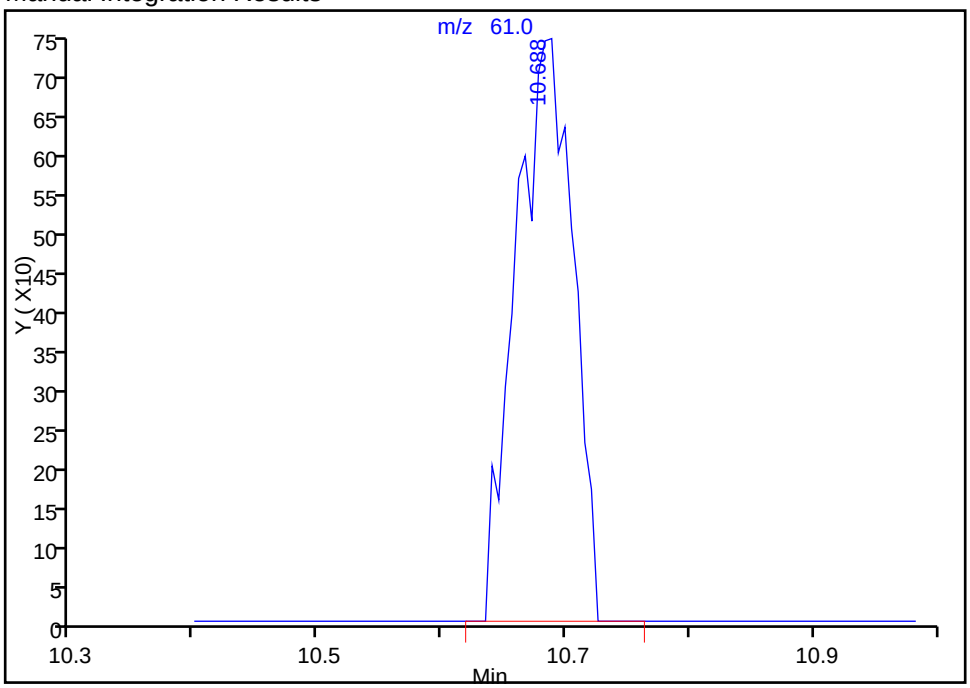
Processing Integration Results

RT: 10.69
Area: 1697
Amount: 0.201430
Amount Units: ppb v/v



Manual Integration Results

RT: 10.69
Area: 2410
Amount: 0.201430
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

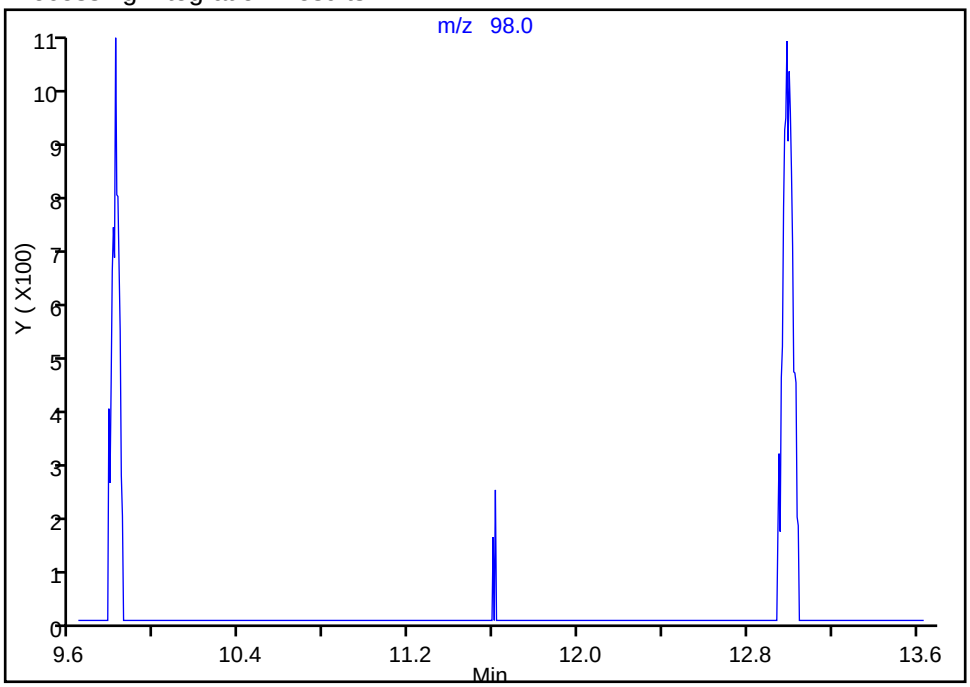
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

47 1,2-Dichloroethane, CAS: 107-06-2

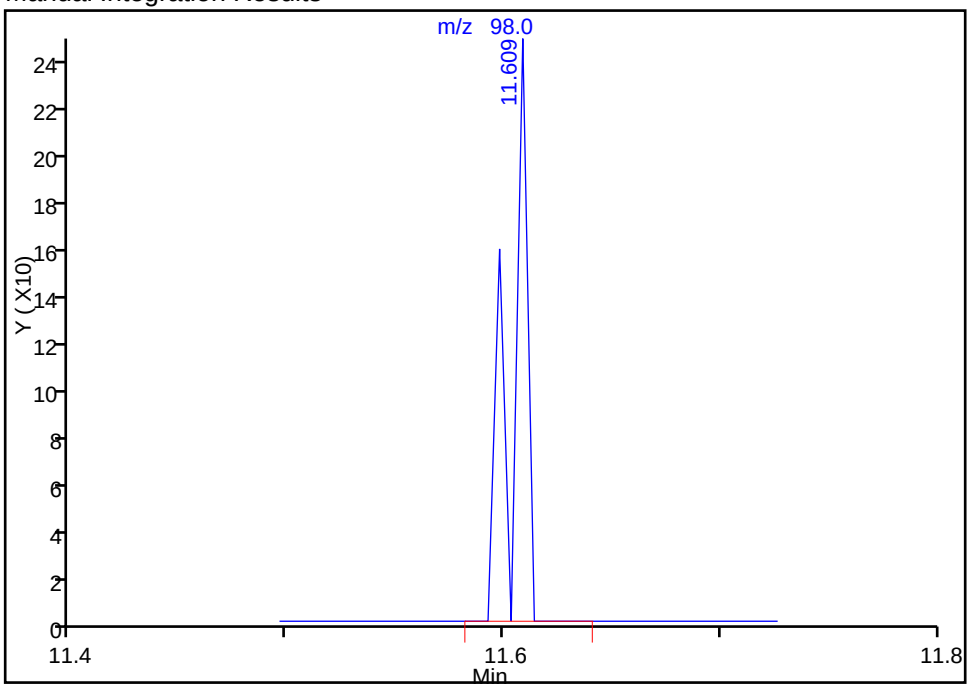
Processing Integration Results

RT: 11.64
Area: 0
Amount: 0.207511
Amount Units: ppb v/v



Manual Integration Results

RT: 11.61
Area: 127
Amount: 0.207511
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

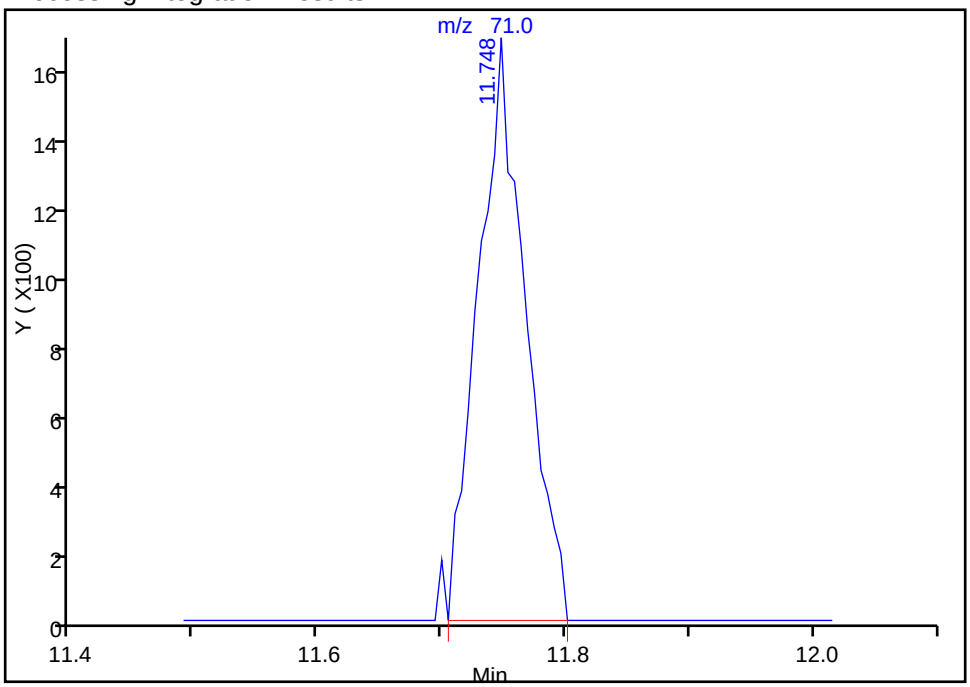
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

48 n-Heptane, CAS: 142-82-5

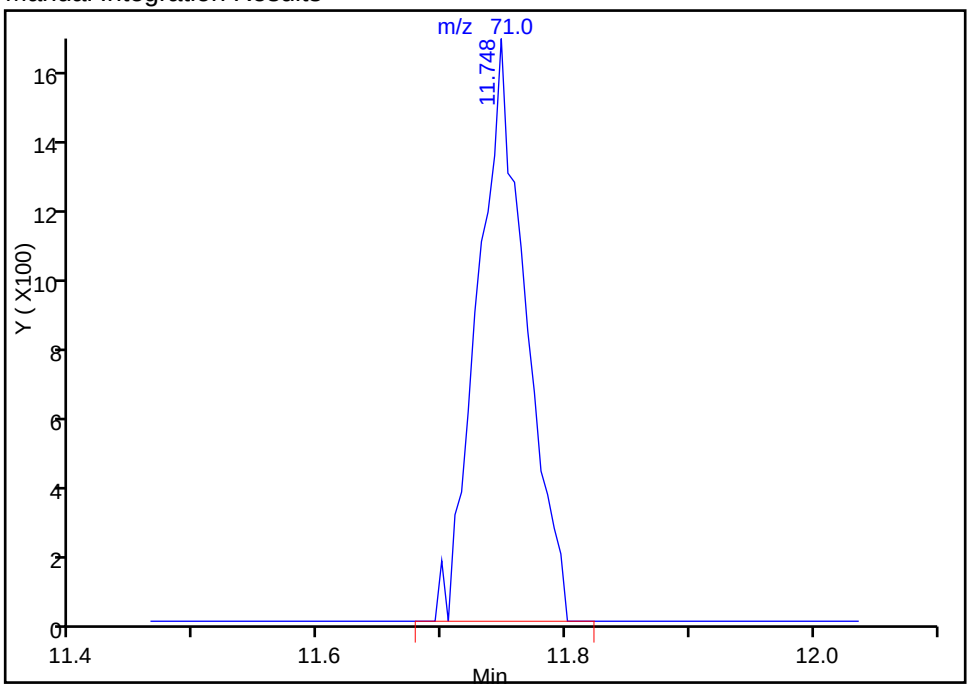
Processing Integration Results

RT: 11.75
Area: 4264
Amount: 0.211024
Amount Units: ppb v/v



Manual Integration Results

RT: 11.75
Area: 4318
Amount: 0.211024
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

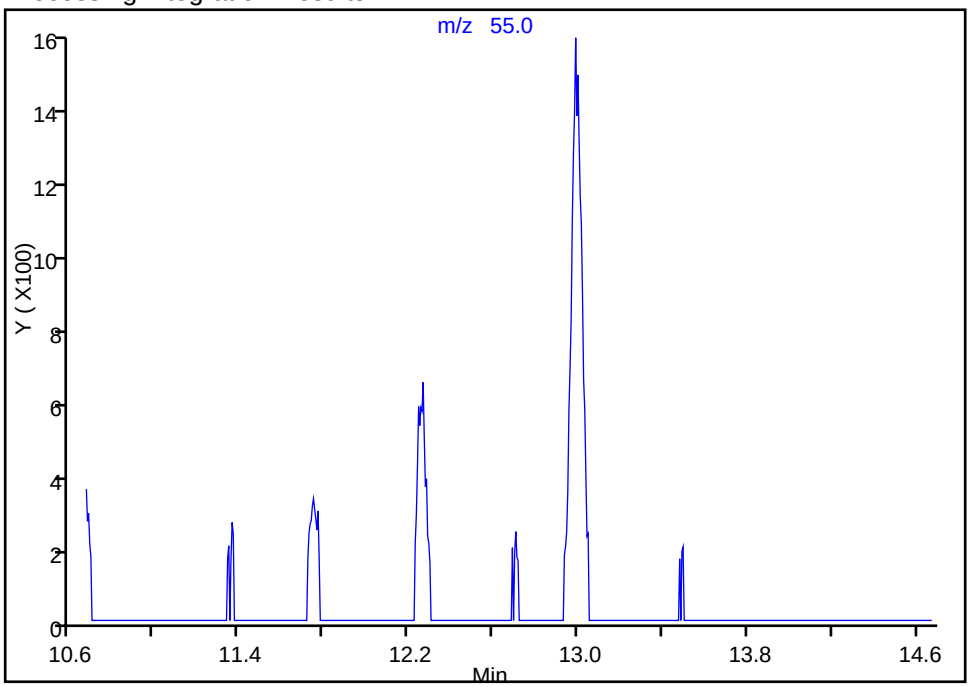
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

51 n-Butanol, CAS: 71-36-3

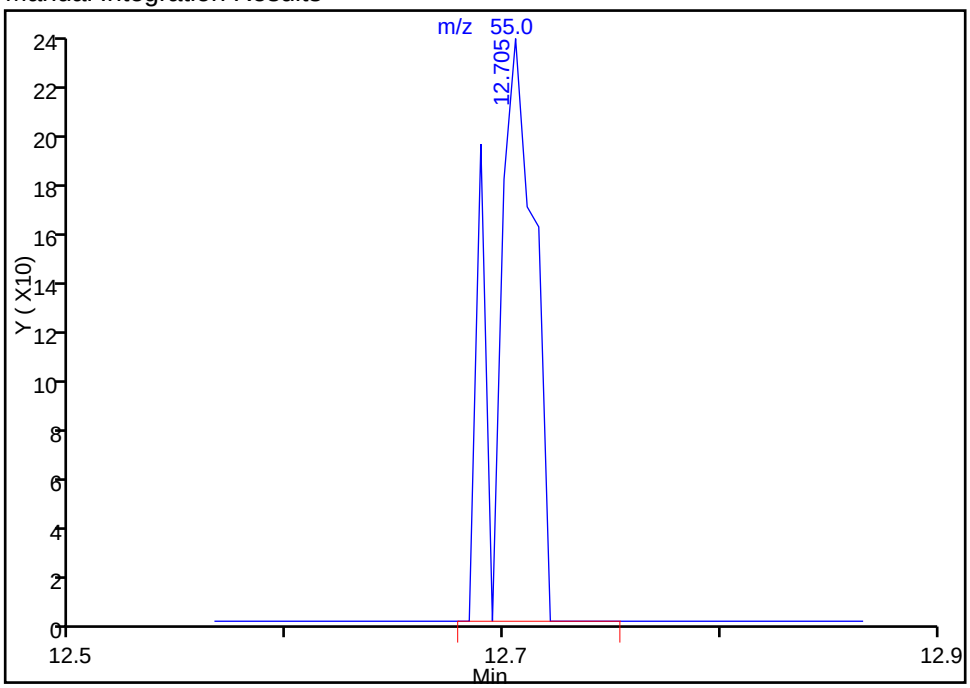
Processing Integration Results

RT: 12.67
Area: 0
Amount: 0.249299
Amount Units: ppb v/v



Manual Integration Results

RT: 12.71
Area: 295
Amount: 0.249299
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

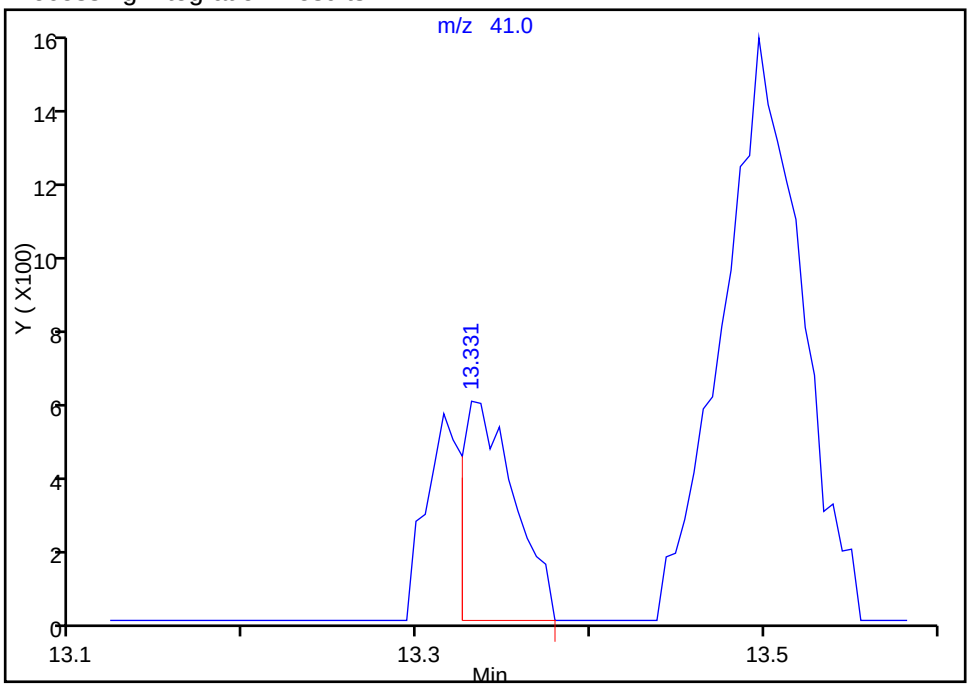
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

53 1,2-Dichloropropane, CAS: 78-87-5

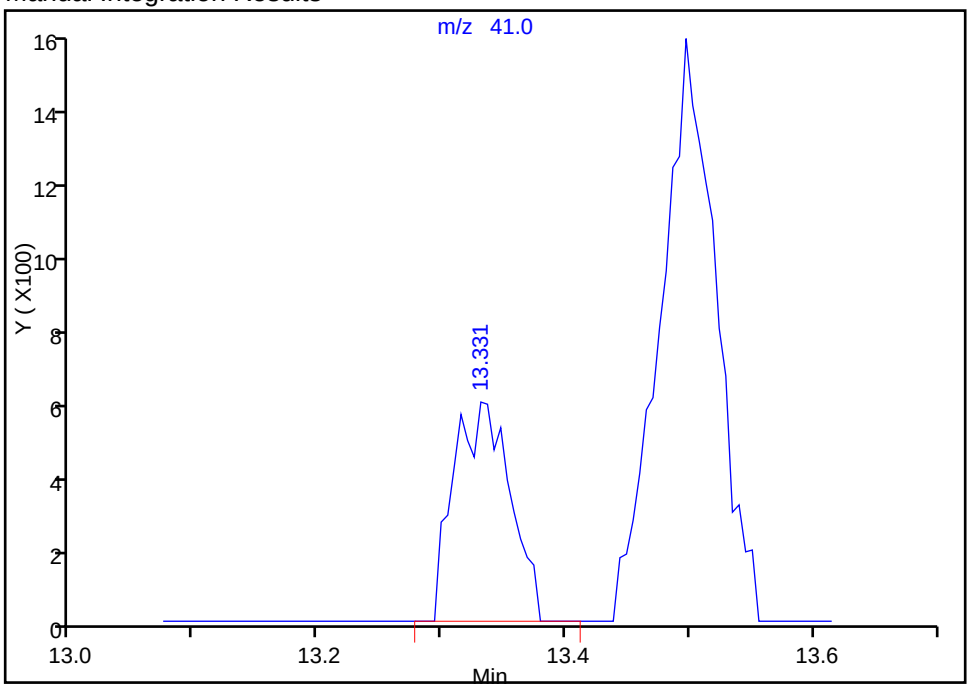
Processing Integration Results

RT: 13.33
Area: 1240
Amount: 0.202136
Amount Units: ppb v/v



Manual Integration Results

RT: 13.33
Area: 1894
Amount: 0.202136
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

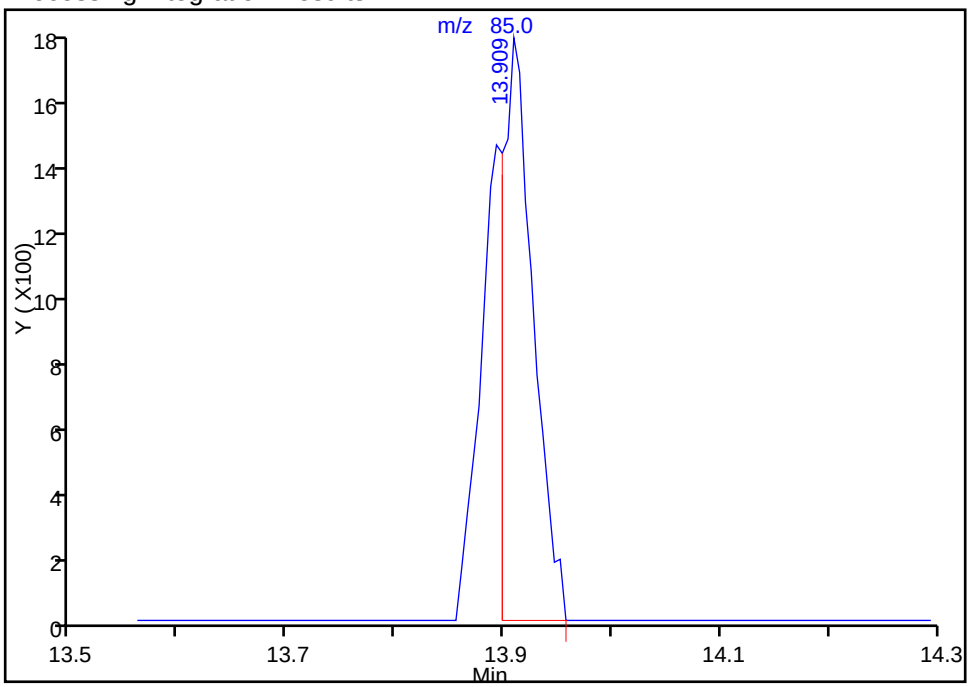
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

57 Dichlorobromomethane, CAS: 75-27-4

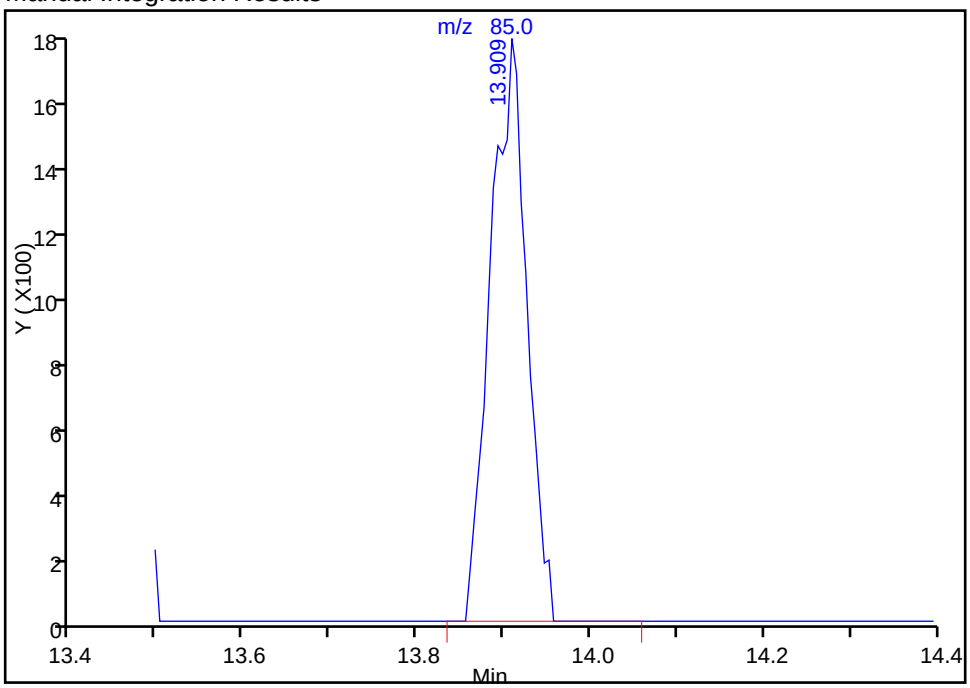
Processing Integration Results

RT: 13.91
Area: 3363
Amount: 0.188029
Amount Units: ppb v/v



Manual Integration Results

RT: 13.91
Area: 5056
Amount: 0.188029
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

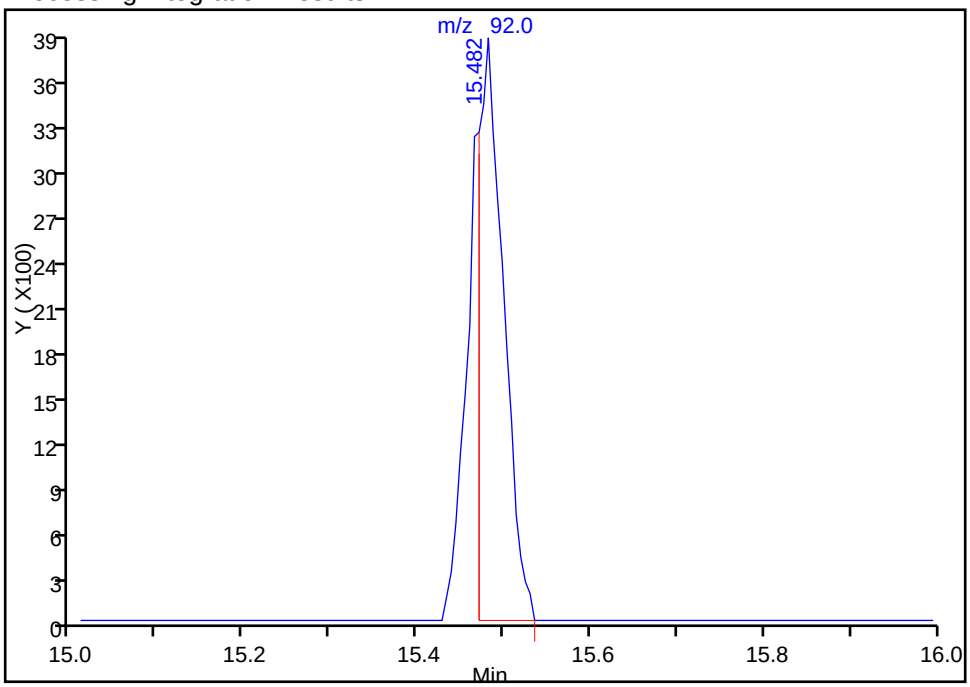
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

62 Toluene, CAS: 108-88-3

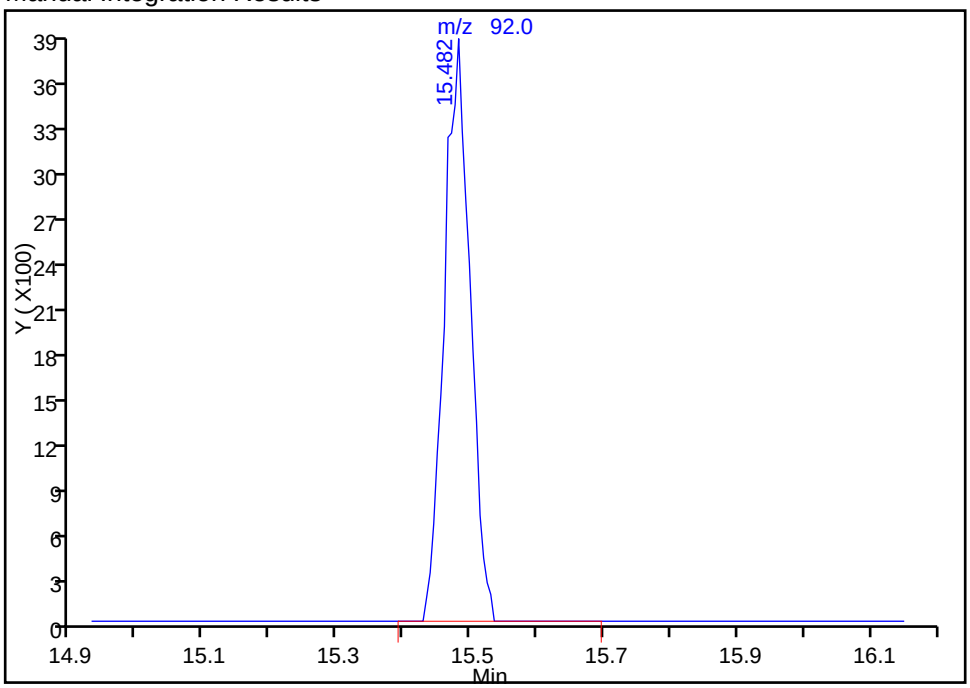
Processing Integration Results

RT: 15.48
Area: 7536
Amount: 0.158995
Amount Units: ppb v/v



Manual Integration Results

RT: 15.48
Area: 10378
Amount: 0.209971
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

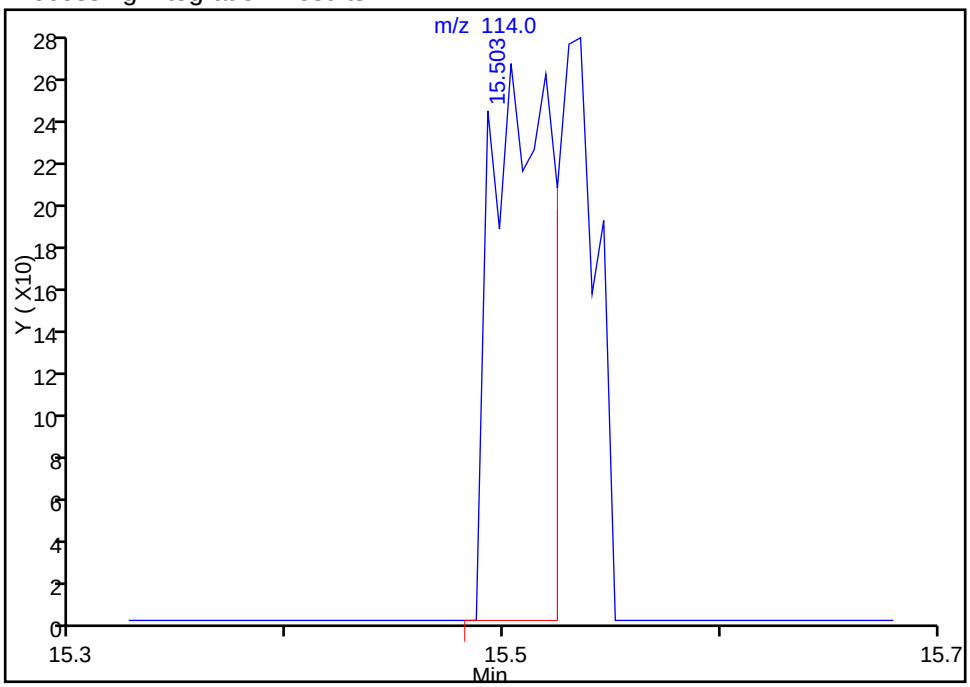
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

66 n-Octane, CAS: 111-65-9

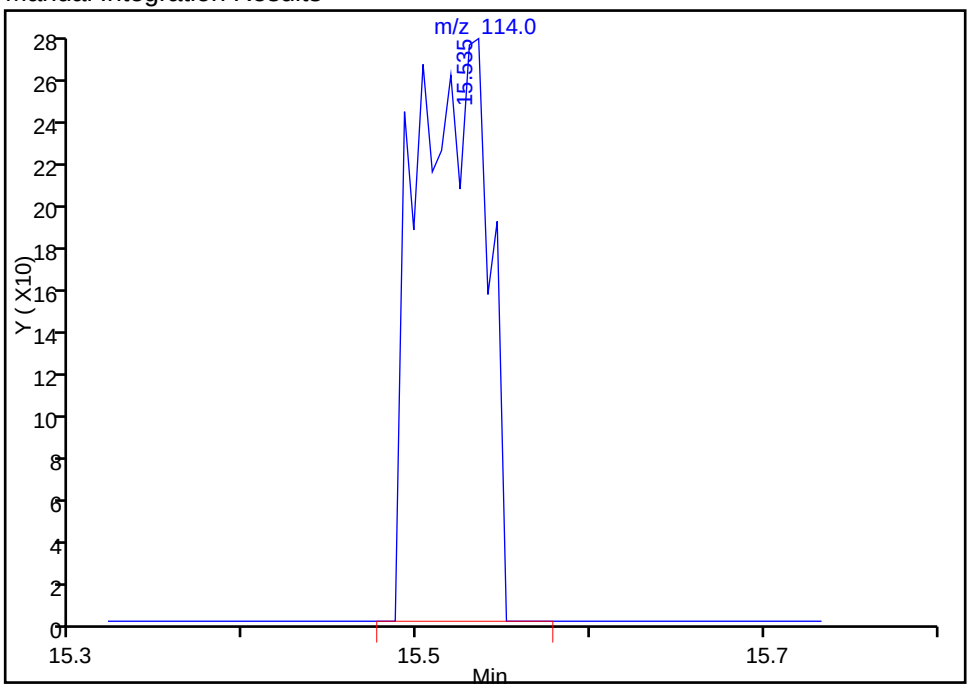
Processing Integration Results

RT: 15.50
Area: 501
Amount: 0.217878
Amount Units: ppb v/v



Manual Integration Results

RT: 15.54
Area: 783
Amount: 0.217878
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

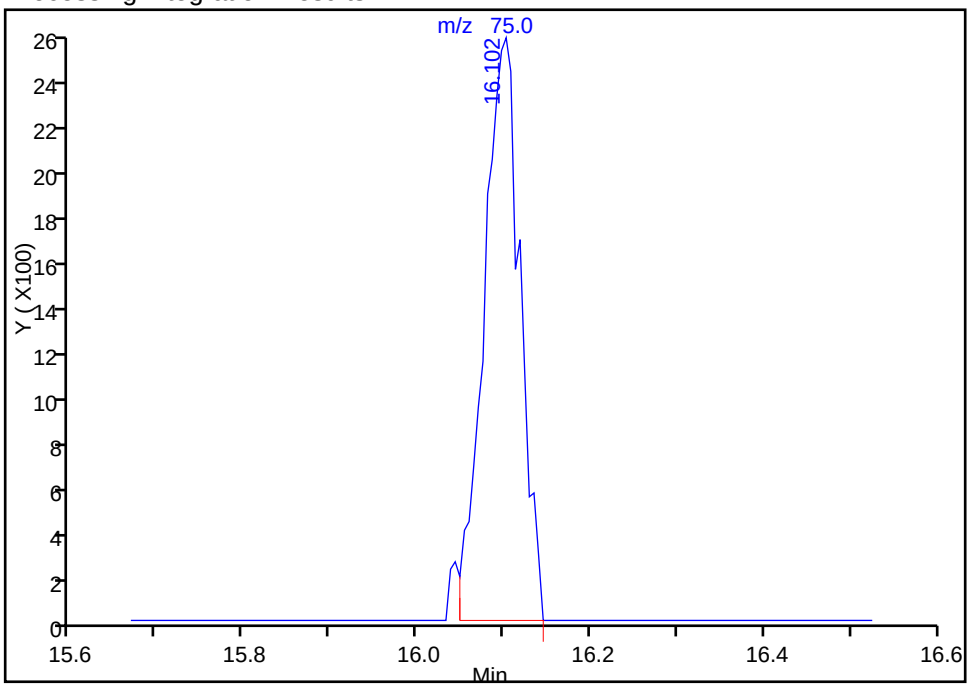
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_05.D
Injection Date: 17-Aug-2015 18:54:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

67 trans-1,3-Dichloropropene, CAS: 10061-02-6

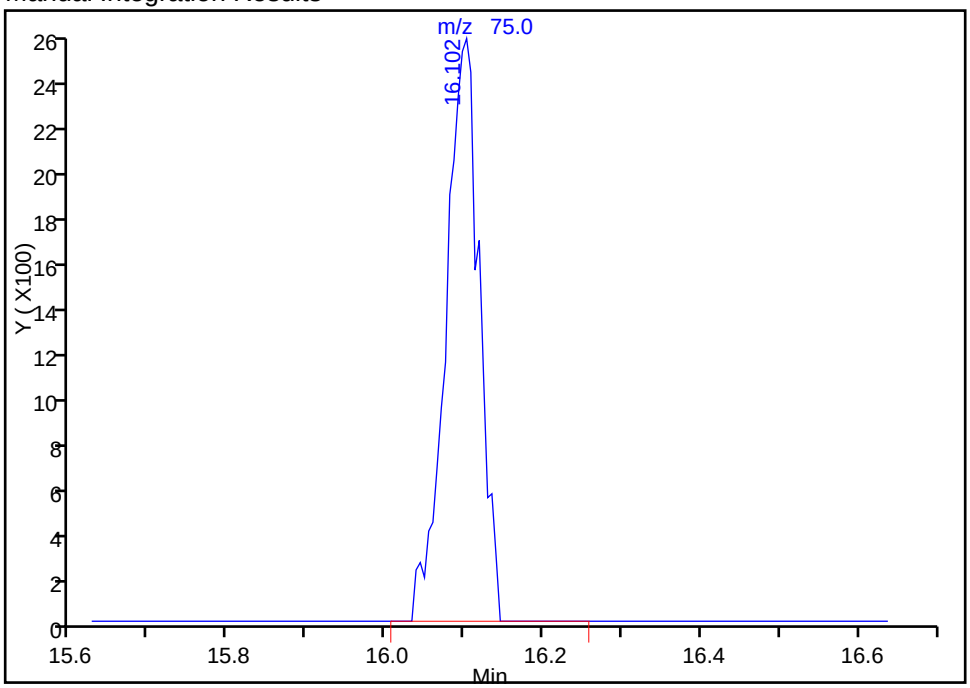
Processing Integration Results

RT: 16.10
Area: 7525
Amount: 0.210958
Amount Units: ppb v/v



Manual Integration Results

RT: 16.10
Area: 7682
Amount: 0.214685
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:17:28
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_06.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Aug-2015 19:44:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-006
Misc. Info.: ic-03
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:28 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:20:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.097	3.092	0.005	88	6617	0.5005	0.8956	
2 Dichlorodifluoromethane	85	3.161	3.161	0.000	99	18447	0.5005	0.5332	
3 Chlorodifluoromethane	51	3.215	3.209	0.006	97	9175	0.5005	0.5483	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.429	3.423	0.006	90	18529	0.5005	0.5268	
5 Chloromethane	50	3.568	3.563	0.005	97	5361	0.5005	0.5507	
6 Butane	43	3.760	3.755	0.005	98	10165	0.5005	0.6356	
7 Vinyl chloride	62	3.803	3.803	0.000	97	6496	0.5005	0.5291	
8 Butadiene	54	3.878	3.878	0.000	91	4995	0.5005	0.5664	
9 Bromomethane	94	4.547	4.547	0.000	98	7429	0.5005	0.5344	
10 Chloroethane	64	4.777	4.777	0.000	97	3292	0.5005	0.5309	
11 2-Methylbutane	43	4.836	4.841	-0.005	89	6750	0.5005	0.5897	
12 Vinyl bromide	106	5.157	5.157	0.000	99	8410	0.5005	0.5241	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	97	20232	0.5005	0.5302	
14 Pentane	43	5.376	5.376	0.000	95	11005	0.5005	0.6044	
15 Ethanol	45	5.820	5.804	0.016	97	18594	5.01	4.87	
16 Ethyl ether	59	5.916	5.895	0.021	92	4104	0.5005	0.5123	
17 Acrolein	56	6.291	6.280	0.011	38	2068	0.5005	0.6863	
18 1,1,2-Trichloro-1,2,2-trif	101	6.291	6.286	0.005	93	15917	0.5005	0.5211	
20 1,1-Dichloroethene	96	6.344	6.344	0.000	92	7469	0.5005	0.5231	
21 Acetone	43	6.607	6.585	0.021	89	20789	0.5005	1.34	
22 Carbon disulfide	76	6.735	6.740	-0.005	98	19072	0.5005	0.5256	
23 Isopropyl alcohol	45	6.911	6.863	0.048	99	9499	0.5005	0.6439	
24 3-Chloro-1-propene	41	7.120	7.115	0.005	89	6592	0.5005	0.5470	
25 Acetonitrile	41	7.270	7.265	0.005	99	4979	0.5005	0.6747	
26 Methylene Chloride	49	7.409	7.409	0.000	83	8715	0.5005	0.6648	
28 2-Methyl-2-propanol	59	7.682	7.639	0.043	98	13152	0.5005	0.5561	
29 Methyl tert-butyl ether	73	7.842	7.800	0.042	96	20686	0.5005	0.5238	
30 trans-1,2-Dichloroethene	61	7.832	7.837	-0.005	91	9769	0.5005	0.5328	
31 Acrylonitrile	53	8.008	8.003	0.005	93	4439	0.5005	0.5217	
32 Hexane	57	8.201	8.201	0.000	88	11217	0.5005	0.5761	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.704	8.709	-0.005	99	12984	0.5005	0.5244	
34 Vinyl acetate	43	8.773	8.773	0.000	99	15511	0.5005	0.5344	
35 cis-1,2-Dichloroethene	96	9.811	9.816	-0.005	96	9366	0.5005	0.5198	
36 2-Butanone (MEK)	72	9.875	9.865	0.010	99	5720	0.5005	0.6924	
37 Ethyl acetate	88	9.907	9.897	0.010	95	627	0.5005	0.4796	
S 38 1,2-Dichloroethene, Total	61				0		1.00	1.05	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	77	177864	10.0	10.0	
39 Tetrahydrofuran	42	10.319	10.287	0.032	86	7598	0.5005	0.5485	
41 Chloroform	83	10.405	10.410	-0.005	98	17489	0.5005	0.5291	
42 Cyclohexane	84	10.646	10.656	-0.010	85	12595	0.5005	0.5175	M
43 1,1,1-Trichloroethane	97	10.688	10.688	0.000	97	18231	0.5005	0.5143	
44 Carbon tetrachloride	117	10.934	10.934	0.000	97	18498	0.5005	0.5009	
45 Isooctane	57	11.357	11.362	-0.005	99	41917	0.5005	0.5154	
46 Benzene	78	11.411	11.416	-0.005	93	30066	0.5005	0.5297	
47 1,2-Dichloroethane	62	11.603	11.609	-0.006	95	10225	0.5005	0.5132	
48 n-Heptane	43	11.742	11.753	-0.011	86	14909	0.5005	0.5443	
* 50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	92	972301	10.0	10.0	
51 n-Butanol	56	12.700	12.668	0.032	85	5859	0.5005	0.6204	
52 Trichloroethene	95	12.737	12.743	-0.006	93	14420	0.5005	0.5041	
53 1,2-Dichloropropane	63	13.326	13.336	-0.010	94	10996	0.5005	0.5097	M
54 Methyl methacrylate	69	13.497	13.492	0.005	81	10846	0.5005	0.5045	
55 1,4-Dioxane	88	13.593	13.567	0.026	91	6814	0.5005	0.6391	
56 Dibromomethane	174	13.599	13.609	-0.010	90	18413	0.5005	0.5353	
57 Dichlorobromomethane	83	13.903	13.909	-0.006	98	19837	0.5005	0.4896	
58 cis-1,3-Dichloropropene	75	14.872	14.877	-0.005	88	16721	0.5005	0.4939	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	7091811	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	7091811	0.5005	143.2	
61 4-Methyl-2-pentanone (MIBK	43	15.198	15.177	0.021	93	19380	0.5005	0.5222	
A 63 Toluene Range	1		(15.472-15.492)				NC	ND	
62 Toluene	92	15.476	15.482	-0.006	93	25278	0.5005	0.5205	
A 65 GRO	1	15.514	(15.514-15.514)		0	183909	0.5005	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.508	15.514	-0.006	86	23178	0.5005	0.5496	
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	93	19391	0.5005	0.5492	
68 1,1,2-Trichloroethane	83	16.487	16.487	0.000	96	11485	0.5005	0.5069	
69 Tetrachloroethene	166	16.584	16.589	-0.005	96	24300	0.5005	0.5025	
70 2-Hexanone	43	16.964	16.942	0.022	92	18600	0.5005	0.5158	
71 Chlorodibromomethane	129	17.263	17.269	-0.006	97	20490	0.5005	0.4374	
72 Ethylene Dibromide	107	17.552	17.552	0.000	99	22207	0.5005	0.4983	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	82	953679	10.0	10.0	
74 Chlorobenzene	112	18.515	18.520	-0.005	97	35363	0.5005	0.5114	
75 Ethylbenzene	91	18.659	18.659	0.000	96	53766	0.5005	0.5136	
76 n-Nonane	57	18.761	18.761	0.000	85	23969	0.5005	0.5333	
77 m-Xylene & p-Xylene	106	18.911	18.911	0.000	99	44443	1.00	1.01	
78 o-Xylene	106	19.729	19.729	0.000	95	22217	0.5005	0.5092	
79 Styrene	104	19.777	19.778	-0.001	97	33909	0.5005	0.4979	
S 80 Xylenes, Total	106				0		1.50	1.52	
81 Bromoform	173	20.184	20.189	-0.005	99	16277	0.5005	0.3718	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	62997	0.5005	0.5061	
* 83 4-Bromofluorobenzene	95	20.719	20.724	-0.005	99	645812	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.987	20.992	-0.006	98	29690	0.5005	0.5070	
86 N-Propylbenzene	91	21.045	21.045	0.000	100	73727	0.5005	0.5082	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.083	21.088	-0.005	97	23812	0.5005	0.5331	
88 n-Decane	57	21.190	21.190	0.000	84	31078	0.5005	0.5468	
89 4-Ethyltoluene	105	21.227	21.227	0.000	98	64410	0.5005	0.5121	
90 2-Chlorotoluene	91	21.249	21.243	0.006	95	50782	0.5005	0.5161	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	94	53113	0.5005	0.5116	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	92	27241	0.5005	0.4977	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	53515	0.5005	0.5172	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	96	53761	0.5005	0.5165	
95 sec-Butylbenzene	105	22.110	22.110	0.000	99	78341	0.5005	0.5178	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	68063	0.5005	0.5108	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	99	40915	0.5005	0.5111	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	97	41228	0.5005	0.5089	
99 Benzyl chloride	91	22.698	22.698	0.000	100	40288	0.5005	0.4754	
100 Undecane	57	22.896	22.896	0.000	73	33330	0.5005	0.5711	
101 n-Butylbenzene	91	22.896	22.902	-0.006	96	60138	0.5005	0.5364	
102 1,2-Dichlorobenzene	146	23.051	23.052	-0.001	98	38902	0.5005	0.5127	
103 Dodecane	57	24.549	24.549	0.000	94	33156	0.5005	0.6223	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	35069	0.5005	0.5008	
105 Hexachlorobutadiene	225	25.871	25.871	0.000	98	34540	0.5005	0.5301	
106 Naphthalene	128	26.213	26.219	-0.006	99	61461	0.5005	0.4583	
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	95	31792	0.5005	0.4912	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL2w_00192	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

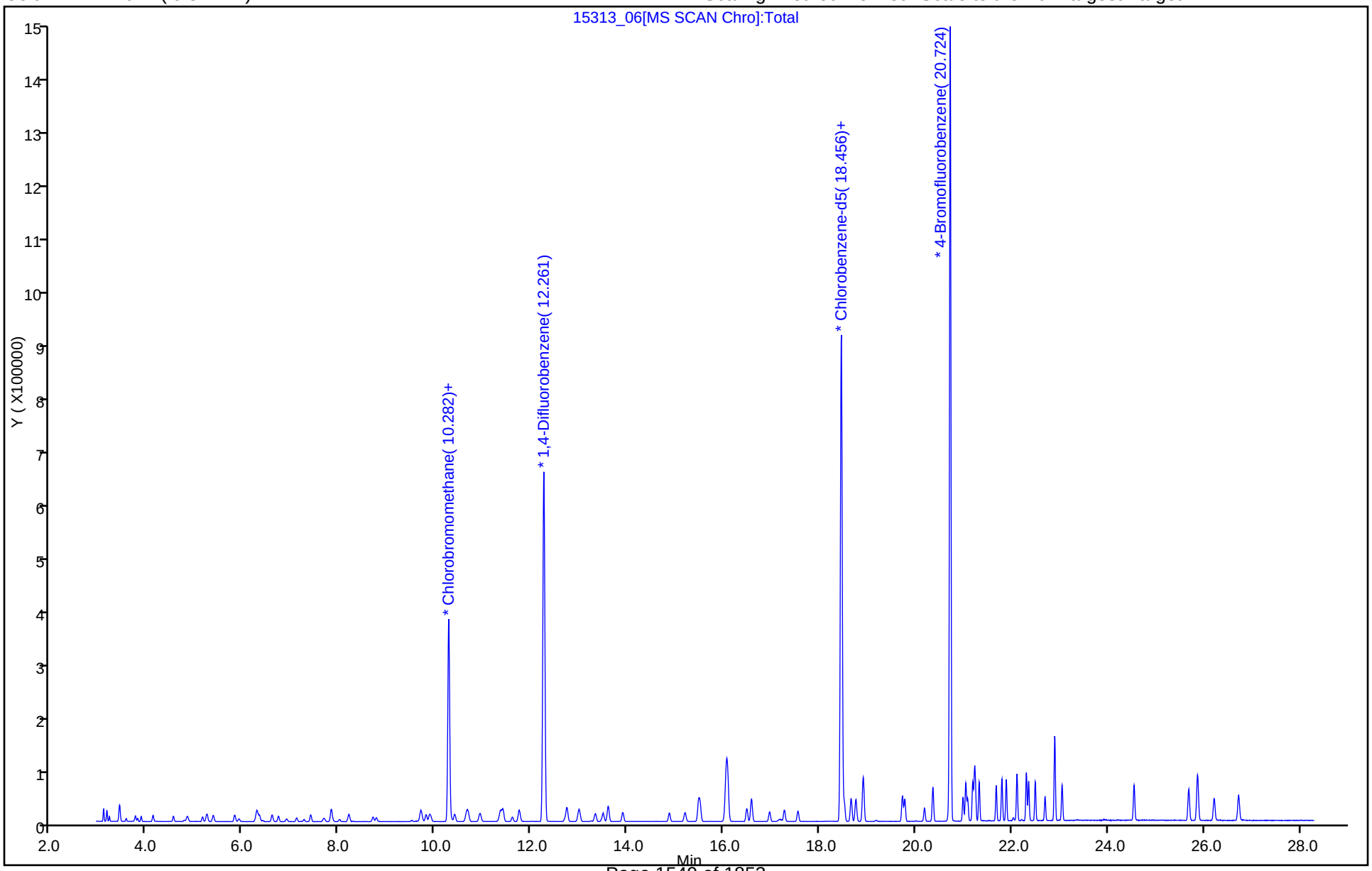
Report Date: 18-Aug-2015 11:12:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_06.D

Injection Date:	17-Aug-2015 19:44:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

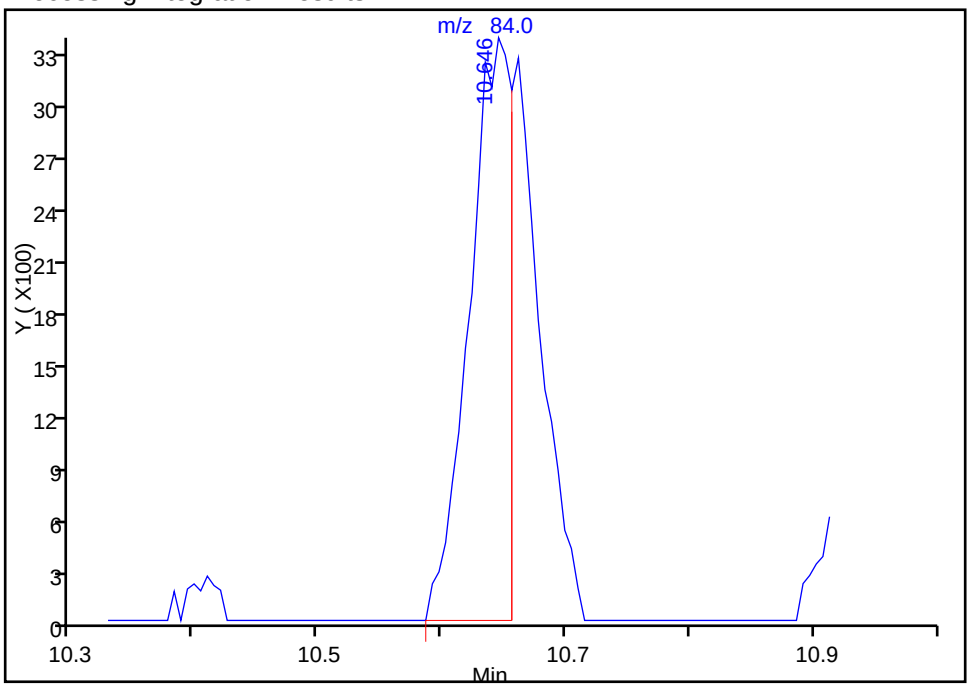
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_06.D
Injection Date: 17-Aug-2015 19:44:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

42 Cyclohexane, CAS: 110-82-7

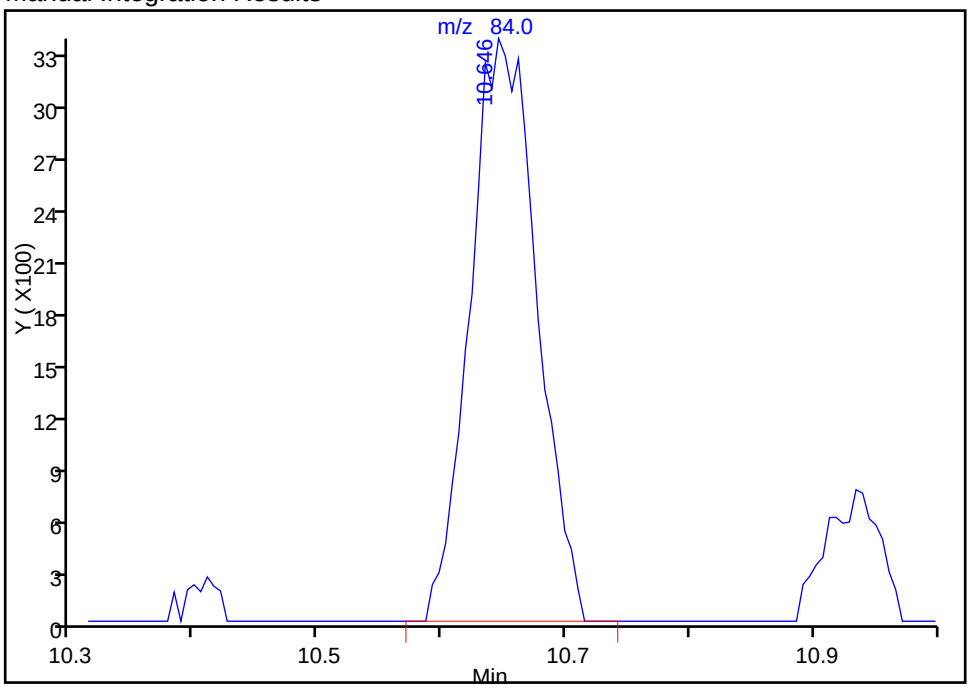
Processing Integration Results

RT: 10.65
Area: 7934
Amount: 0.344855
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 12595
Amount: 0.517519
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:20:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

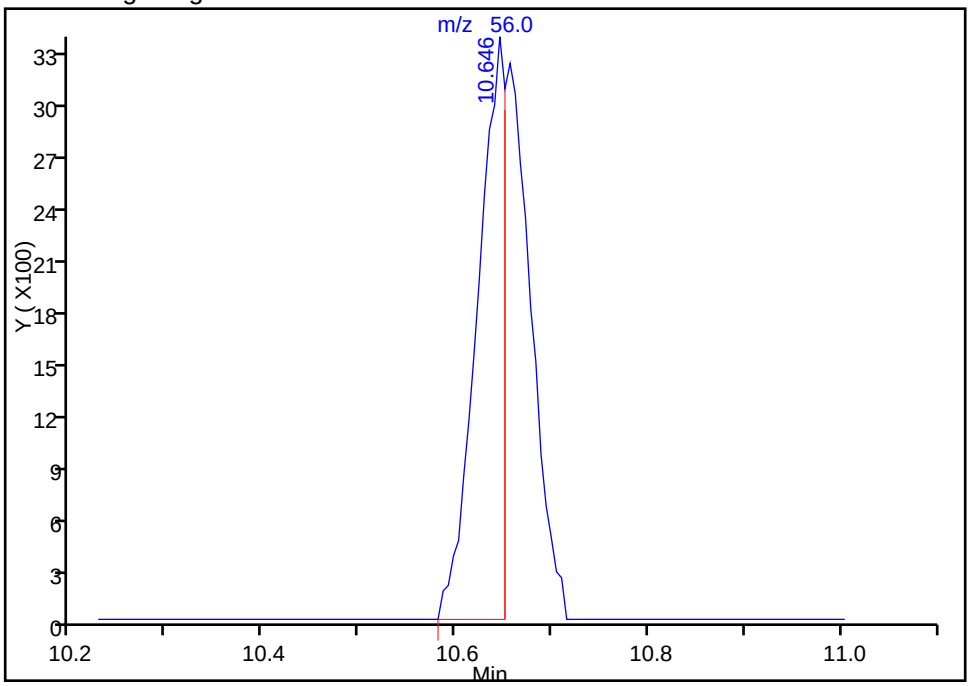
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_06.D
Injection Date: 17-Aug-2015 19:44:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

42 Cyclohexane, CAS: 110-82-7

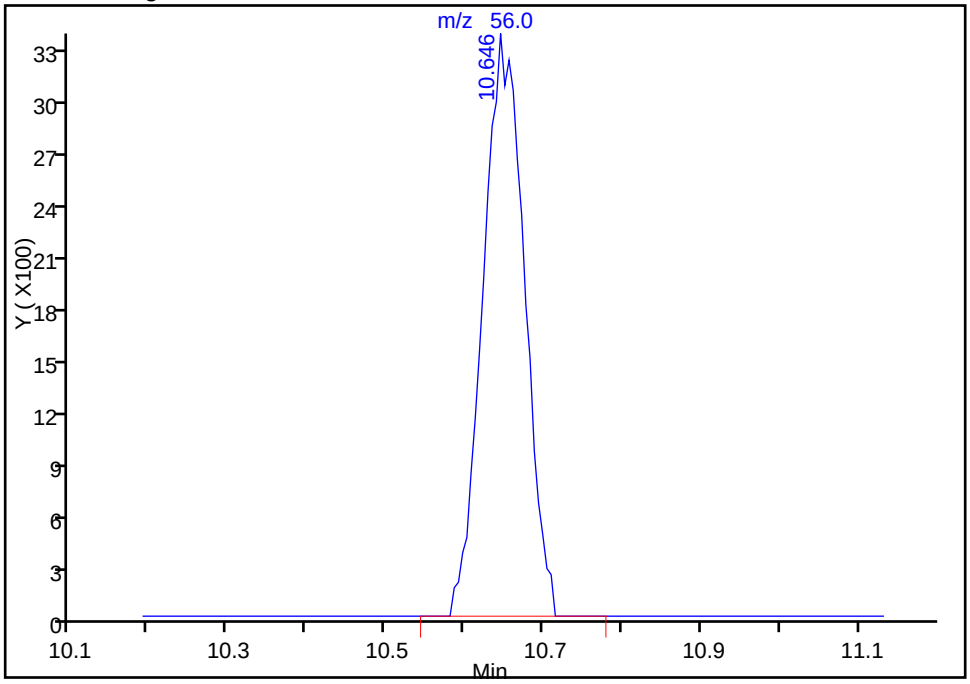
Processing Integration Results

RT: 10.65
Area: 6915
Amount: 0.344855
Amount Units: ppb v/v



Manual Integration Results

RT: 10.65
Area: 12449
Amount: 0.517519
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:20:28
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

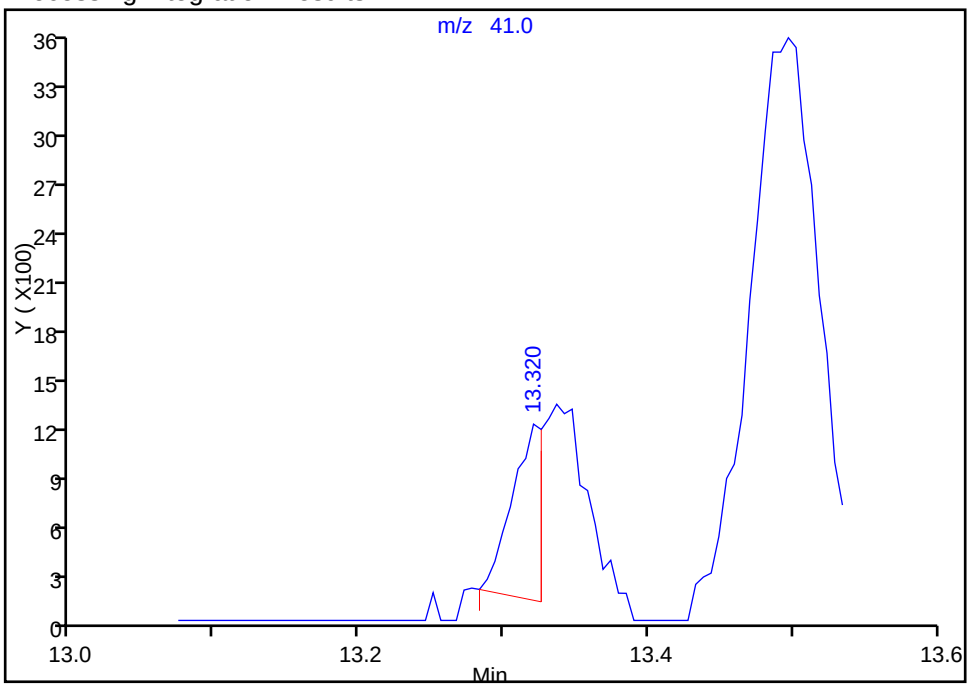
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_06.D
Injection Date: 17-Aug-2015 19:44:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

53 1,2-Dichloropropane, CAS: 78-87-5

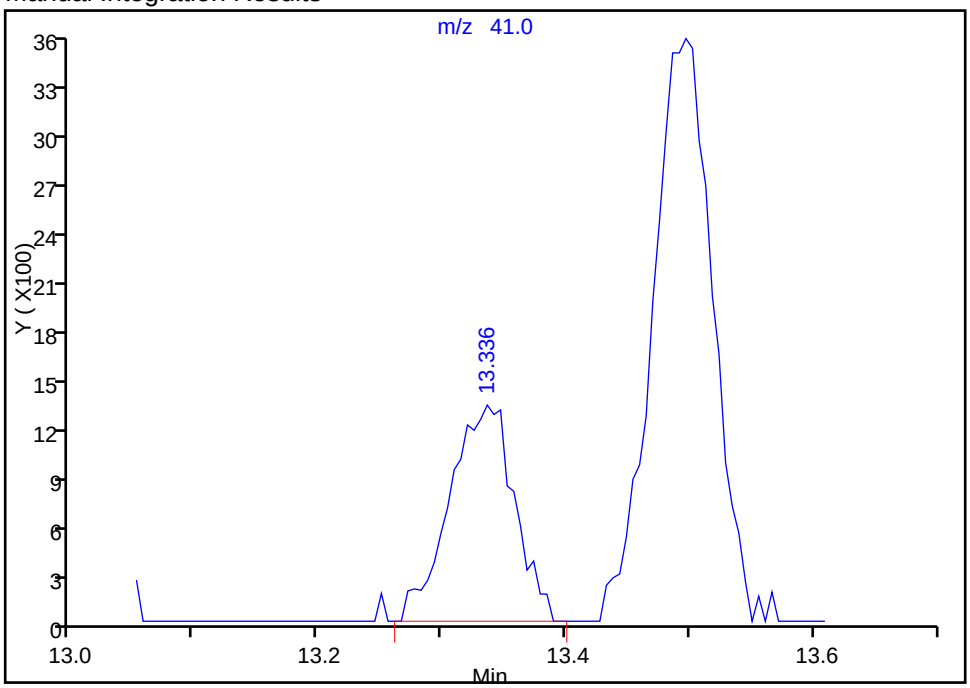
Processing Integration Results

RT: 13.32
Area: 1594
Amount: 0.509739
Amount Units: ppb v/v



Manual Integration Results

RT: 13.34
Area: 4837
Amount: 0.509739
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:20:28
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Aug-2015 20:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-007
Misc. Info.: ic-04
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:29 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:29:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	98	39568	4.99	5.38	
2 Dichlorodifluoromethane	85	3.161	3.161	0.000	99	174200	4.99	5.06	
3 Chlorodifluoromethane	51	3.210	3.209	0.001	97	84151	4.99	5.06	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.424	3.423	0.001	96	175537	4.99	5.02	
5 Chloromethane	50	3.563	3.563	0.000	99	48700	4.99	5.03	
6 Butane	43	3.755	3.755	0.000	98	77403	4.99	4.86	
7 Vinyl chloride	62	3.803	3.803	0.000	97	61956	4.99	5.07	
8 Butadiene	54	3.878	3.878	0.000	93	43265	4.99	4.93	
9 Bromomethane	94	4.547	4.547	0.000	99	68219	4.99	4.93	
10 Chloroethane	64	4.772	4.777	-0.005	99	31384	4.99	5.09	
11 2-Methylbutane	43	4.841	4.841	0.000	91	54555	4.99	4.79	
12 Vinyl bromide	106	5.152	5.157	-0.005	99	78834	4.99	4.94	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	98	187826	4.99	4.95	
14 Pentane	43	5.376	5.376	0.000	96	90462	4.99	4.99	
15 Ethanol	45	5.810	5.804	0.006	99	45333	10.0	11.9	
16 Ethyl ether	59	5.900	5.895	0.005	94	40793	4.99	5.12	
17 Acrolein	56	6.286	6.280	0.006	37	16554	4.99	5.52	
18 1,1,2-Trichloro-1,2,2-trif	101	6.280	6.286	-0.006	95	148836	4.99	4.90	
20 1,1-Dichloroethene	96	6.339	6.344	-0.005	94	70402	4.99	4.96	
21 Acetone	43	6.591	6.585	0.006	89	86571	4.99	5.59	
22 Carbon disulfide	76	6.740	6.740	0.000	98	180387	4.99	5.00	
23 Isopropyl alcohol	45	6.874	6.863	0.011	99	72980	4.99	4.97	
24 3-Chloro-1-propene	41	7.115	7.115	0.000	92	57849	4.99	4.83	
25 Acetonitrile	41	7.259	7.265	-0.006	99	39587	4.99	5.39	
26 Methylene Chloride	49	7.409	7.409	0.000	86	64407	4.99	4.94	
28 2-Methyl-2-propanol	59	7.650	7.639	0.011	99	117126	4.99	4.98	
29 Methyl tert-butyl ether	73	7.805	7.800	0.005	96	193747	4.99	4.93	
30 trans-1,2-Dichloroethene	61	7.832	7.837	-0.005	90	90452	4.99	4.96	
31 Acrylonitrile	53	8.003	8.003	0.000	95	43254	4.99	5.11	
32 Hexane	57	8.201	8.201	0.000	89	94069	4.99	4.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	121376	4.99	4.93	
34 Vinyl acetate	43	8.768	8.773	-0.005	99	148881	4.99	5.16	
35 cis-1,2-Dichloroethene	96	9.811	9.816	-0.005	95	87958	4.99	4.91	
36 2-Butanone (MEK)	72	9.865	9.865	0.000	100	39469	4.99	4.80	
37 Ethyl acetate	88	9.891	9.897	-0.006	99	6481	4.99	4.98	
S 38 1,2-Dichloroethene, Total	61				0		9.99	9.86	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	79	176959	10.0	10.0	
39 Tetrahydrofuran	42	10.293	10.287	0.006	91	69181	4.99	5.04	
41 Chloroform	83	10.405	10.410	-0.005	99	162241	4.99	4.93	
42 Cyclohexane	84	10.651	10.656	-0.005	86	116145	4.99	4.82	
43 1,1,1-Trichloroethane	97	10.683	10.688	-0.005	97	170319	4.99	4.85	
44 Carbon tetrachloride	117	10.935	10.934	0.001	96	181327	4.99	4.96	
45 Isooctane	57	11.363	11.362	0.001	100	397447	4.99	4.93	
46 Benzene	78	11.416	11.416	0.000	94	271621	4.99	4.83	
47 1,2-Dichloroethane	62	11.609	11.609	0.000	97	96043	4.99	4.87	
48 n-Heptane	43	11.748	11.753	-0.005	88	133436	4.99	4.92	
* 50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	92	962941	10.0	10.0	
51 n-Butanol	56	12.679	12.668	0.011	84	44914	4.99	4.80	
52 Trichloroethene	95	12.748	12.743	0.005	94	128372	4.99	4.53	
53 1,2-Dichloropropane	63	13.331	13.336	-0.005	95	104929	4.99	4.91	
54 Methyl methacrylate	69	13.486	13.492	-0.006	83	103716	4.99	4.87	
55 1,4-Dioxane	88	13.561	13.567	-0.006	88	51754	4.99	4.90	
56 Dibromomethane	174	13.604	13.609	-0.005	90	152819	4.99	4.49	
57 Dichlorobromomethane	83	13.904	13.909	-0.005	98	199622	4.99	4.97	
58 cis-1,3-Dichloropropene	75	14.872	14.877	-0.005	88	163830	4.99	4.89	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	61201985	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	61201985	4.99	1248.2	
61 4-Methyl-2-pentanone (MIBK	43	15.182	15.177	0.005	93	183126	4.99	4.98	
A 63 Toluene Range	1		(15.472-15.492)				NC	ND	
62 Toluene	92	15.482	15.482	0.000	93	231255	4.99	4.81	
A 65 GRO	1	15.514	(15.514-15.514)		0	1697990	4.99	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	87	206063	4.99	4.93	
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	93	164265	4.99	4.70	
68 1,1,2-Trichloroethane	83	16.488	16.487	0.001	96	107712	4.99	4.80	
69 Tetrachloroethene	166	16.584	16.589	-0.005	95	223437	4.99	4.66	
70 2-Hexanone	43	16.948	16.942	0.006	93	179506	4.99	5.02	
71 Chlorodibromomethane	129	17.269	17.269	0.000	98	236482	4.99	5.09	
72 Ethylene Dibromide	107	17.552	17.552	0.000	98	213957	4.99	4.85	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	82	945071	10.0	10.0	
74 Chlorobenzene	112	18.520	18.520	0.000	98	331246	4.99	4.83	
75 Ethylbenzene	91	18.660	18.659	0.001	97	503072	4.99	4.85	
76 n-Nonane	57	18.761	18.761	0.000	86	217187	4.99	4.88	
77 m-Xylene & p-Xylene	106	18.911	18.911	0.000	99	424990	9.99	9.71	
78 o-Xylene	106	19.724	19.729	-0.005	95	208525	4.99	4.82	
79 Styrene	104	19.778	19.778	0.000	98	330977	4.99	4.90	
S 80 Xylenes, Total	106				0		15.0	14.5	
81 Bromoform	173	20.190	20.189	0.001	99	232957	4.99	5.37	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	596746	4.99	4.84	
* 83 4-Bromofluorobenzene	95	20.725	20.724	0.001	98	639954	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.987	20.992	-0.005	98	289659	4.99	4.99	
86 N-Propylbenzene	91	21.046	21.045	0.001	100	701499	4.99	4.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.083	21.088	-0.005	96	216002	4.99	4.88	
88 n-Decane	57	21.190	21.190	0.000	86	283369	4.99	5.03	
89 4-Ethyltoluene	105	21.227	21.227	0.000	97	602938	4.99	4.84	
90 2-Chlorotoluene	91	21.243	21.243	0.000	96	472878	4.99	4.85	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	94	499768	4.99	4.86	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	92	269421	4.99	4.97	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	496200	4.99	4.84	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	96	502925	4.99	4.88	
95 sec-Butylbenzene	105	22.110	22.110	0.000	99	737805	4.99	4.92	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	642290	4.99	4.86	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	99	383696	4.99	4.84	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	97	391164	4.99	4.87	
99 Benzyl chloride	91	22.699	22.698	0.001	100	410726	4.99	4.89	
100 Undecane	57	22.897	22.896	0.000	71	300072	4.99	5.19	
101 n-Butylbenzene	91	22.897	22.902	-0.006	96	551929	4.99	4.97	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	99	361270	4.99	4.80	
103 Dodecane	57	24.550	24.549	0.001	94	299345	4.99	5.67	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	330266	4.99	4.76	M
105 Hexachlorobutadiene	225	25.871	25.871	0.000	99	303192	4.99	4.70	M
106 Naphthalene	128	26.219	26.219	0.000	99	638299	4.99	4.80	M
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	96	318508	4.99	4.97	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL3w_00152	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

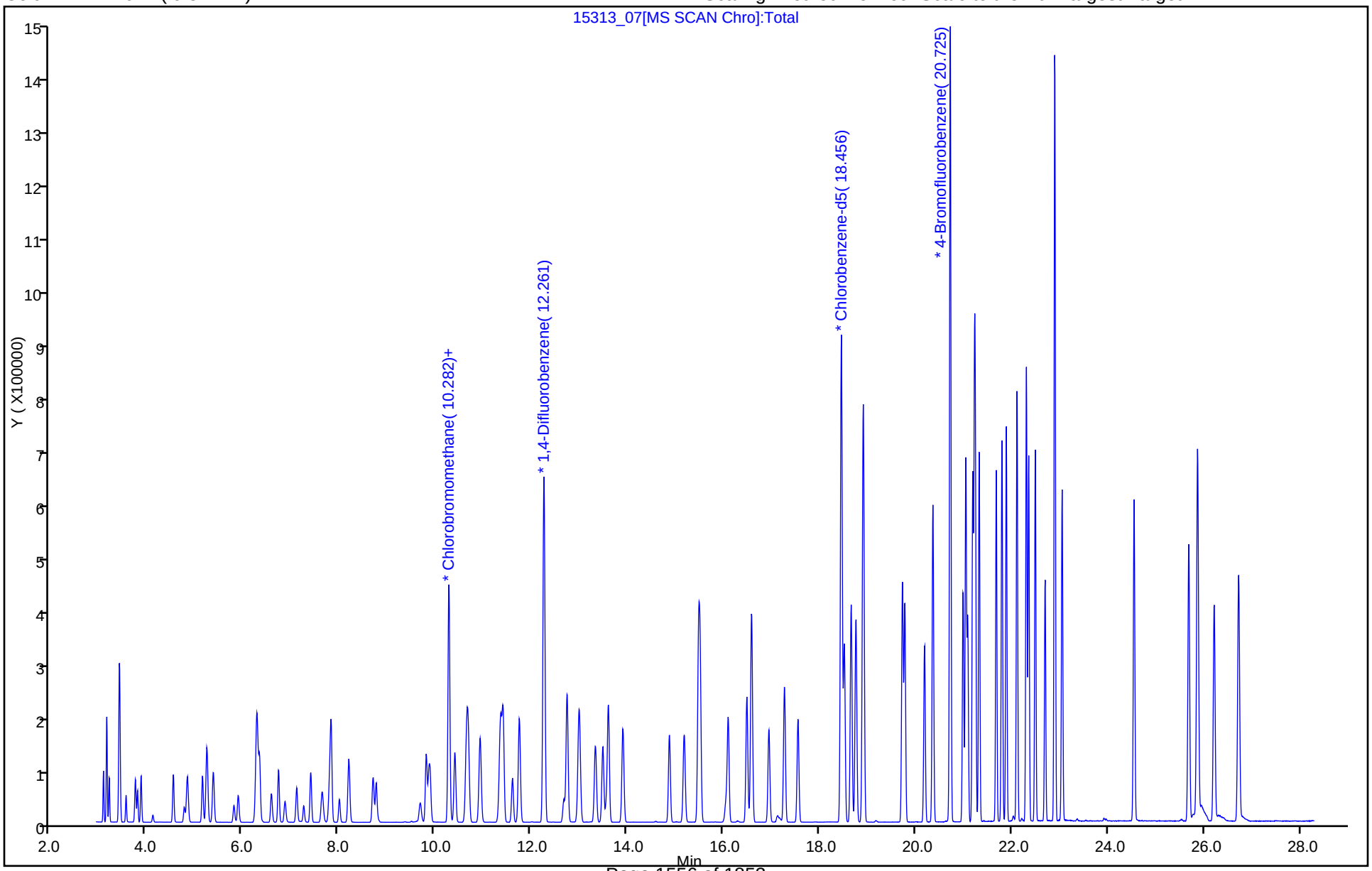
Report Date: 18-Aug-2015 11:12:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D

Injection Date:	17-Aug-2015 20:33:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

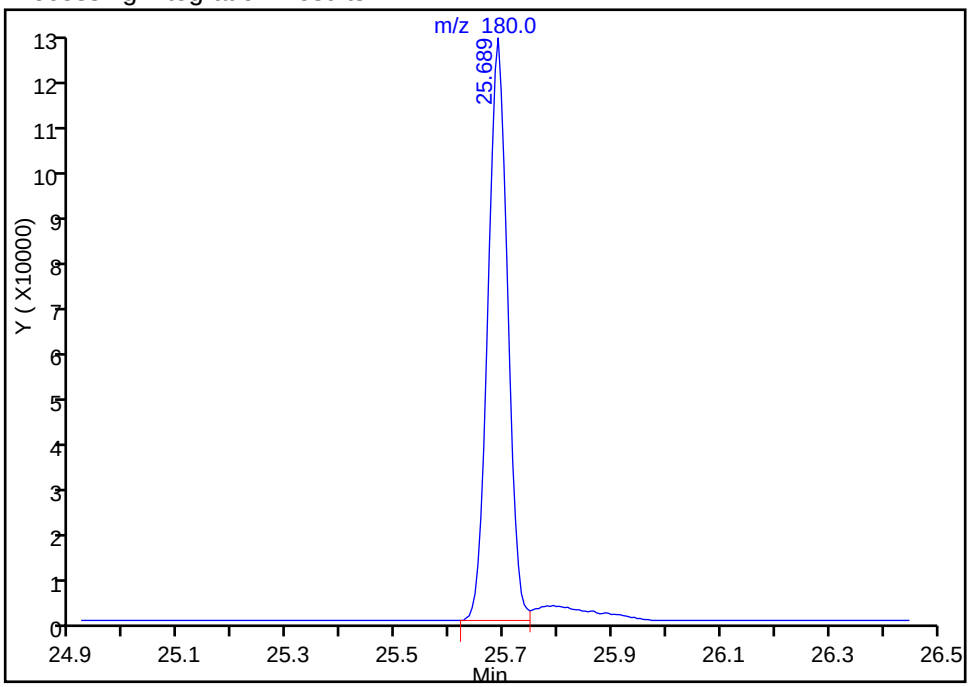
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D
Injection Date: 17-Aug-2015 20:33:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

104 1,2,4-Trichlorobenzene, CAS: 120-82-1

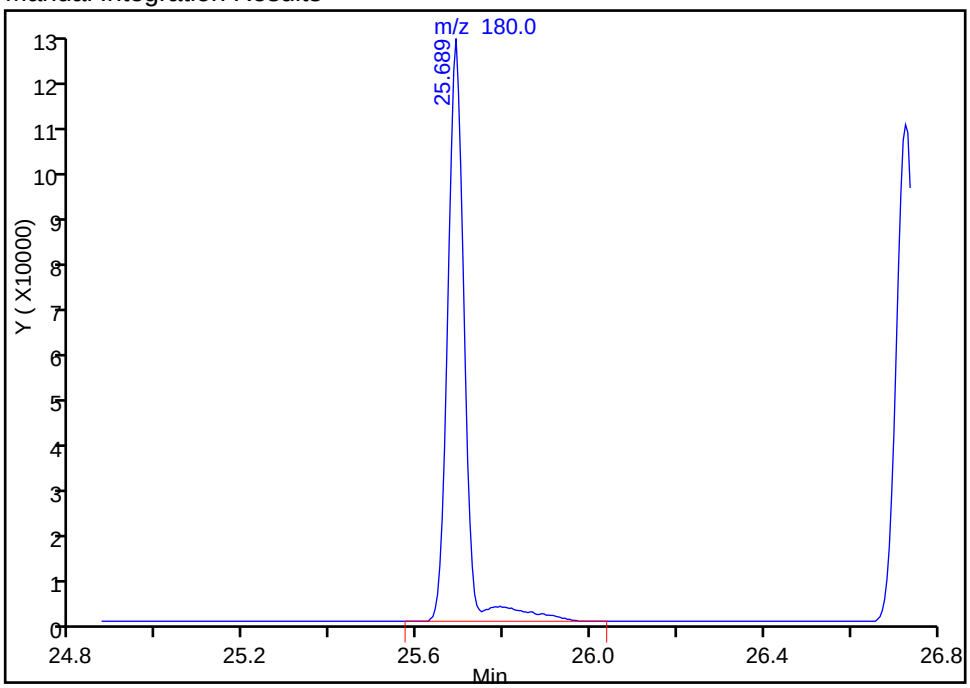
Processing Integration Results

RT: 25.69
Area: 307043
Amount: 4.474790
Amount Units: ppb v/v



Manual Integration Results

RT: 25.69
Area: 330266
Amount: 4.759463
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:29:00
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

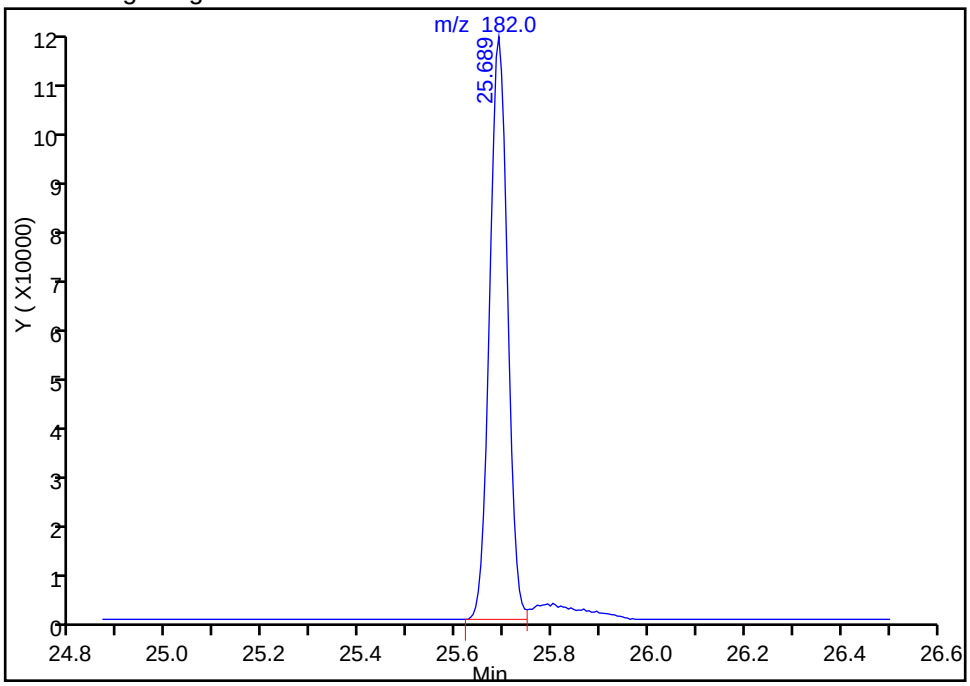
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D
Injection Date: 17-Aug-2015 20:33:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

104 1,2,4-Trichlorobenzene, CAS: 120-82-1

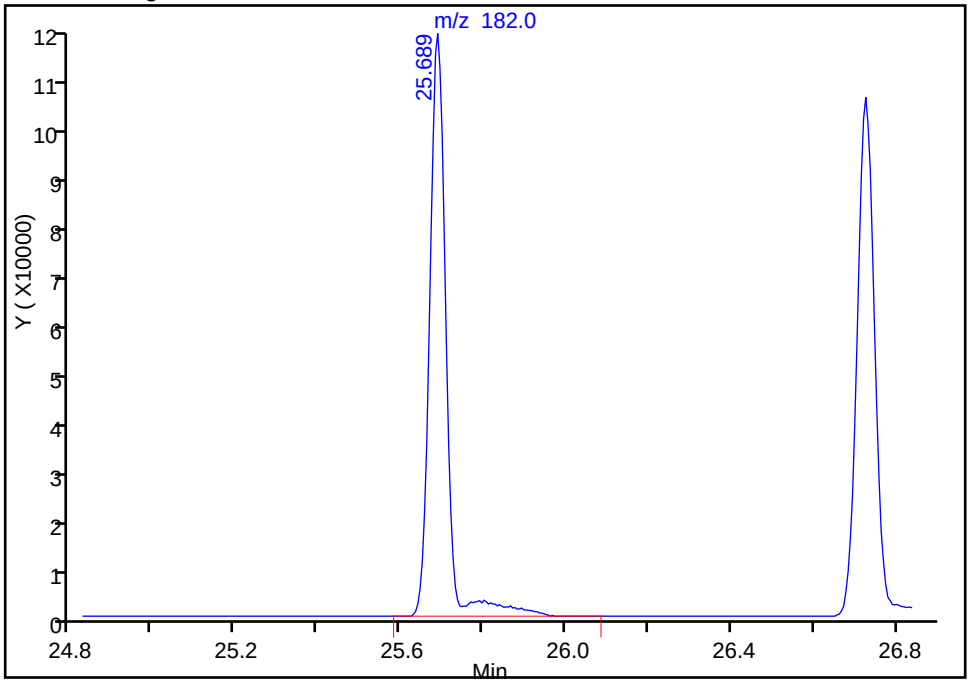
Processing Integration Results

RT: 25.69
Area: 293590
Amount: 4.474790
Amount Units: ppb v/v



Manual Integration Results

RT: 25.69
Area: 315839
Amount: 4.759463
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:29:00
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

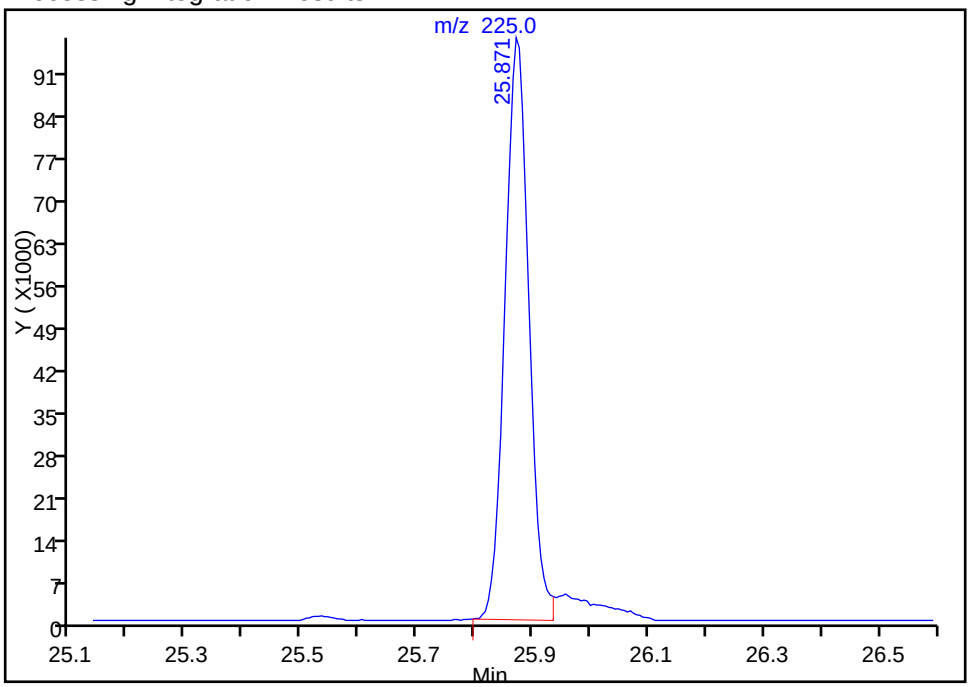
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D
Injection Date: 17-Aug-2015 20:33:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

105 Hexachlorobutadiene, CAS: 87-68-3

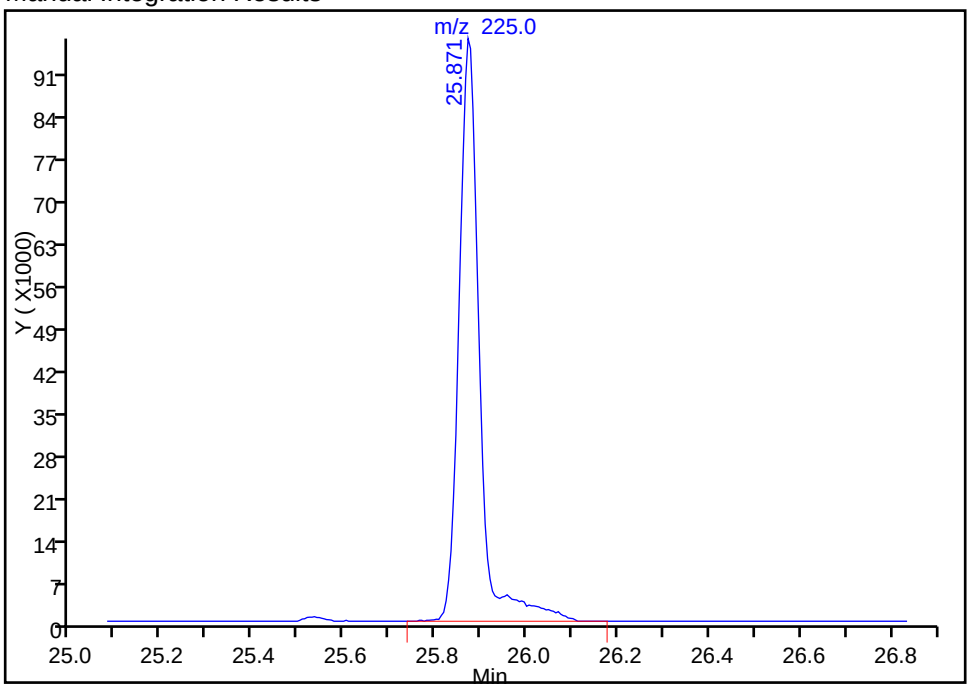
Processing Integration Results

RT: 25.87
Area: 277876
Amount: 4.352161
Amount Units: ppb v/v



Manual Integration Results

RT: 25.87
Area: 303192
Amount: 4.695394
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:29:00
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

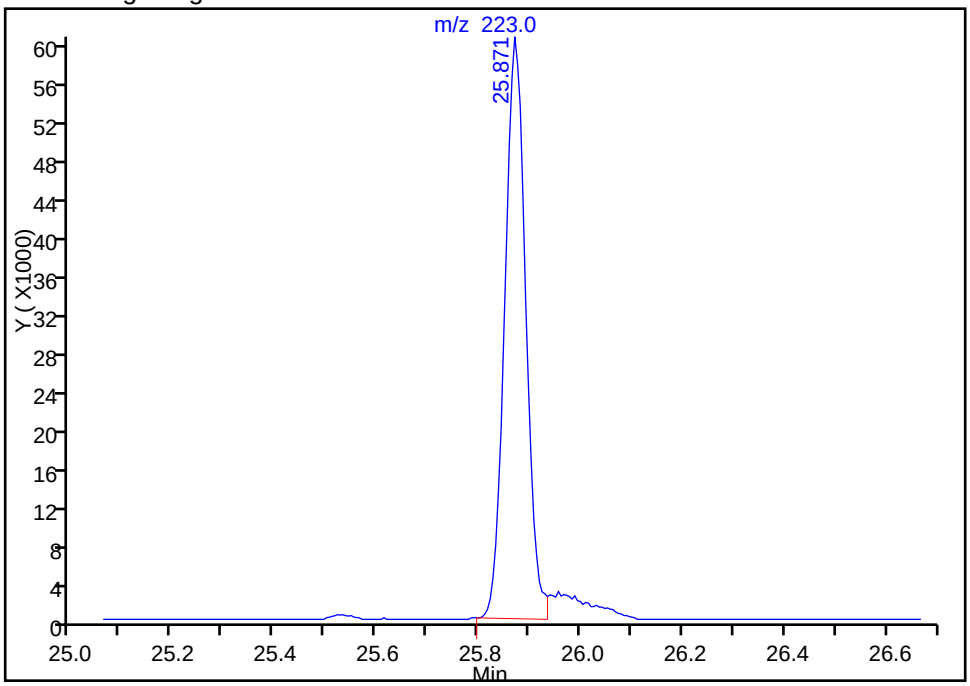
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D
Injection Date: 17-Aug-2015 20:33:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: pad ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

105 Hexachlorobutadiene, CAS: 87-68-3

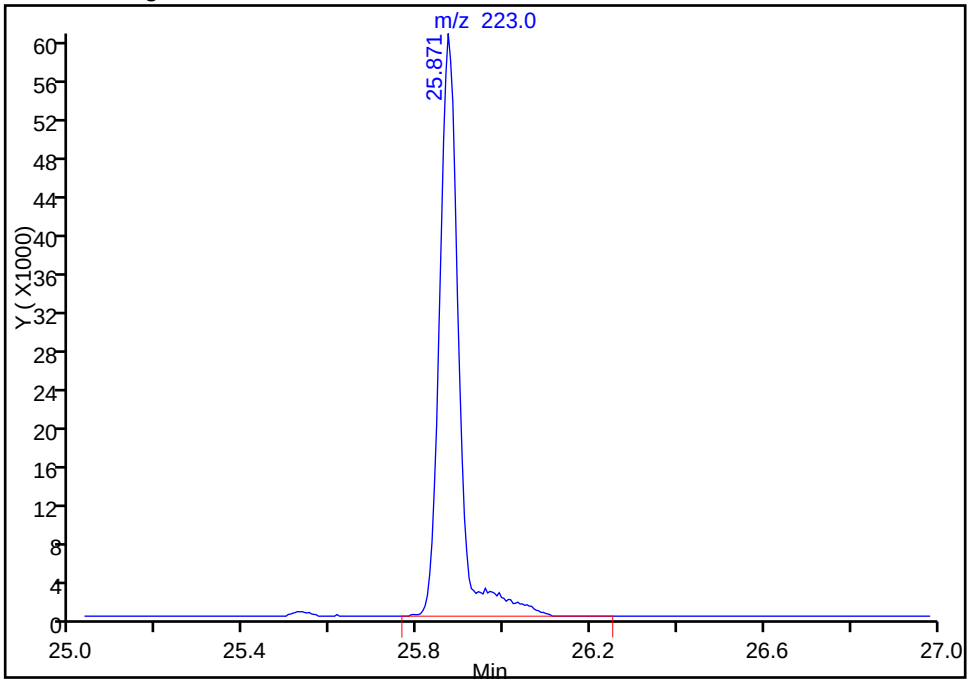
Processing Integration Results

RT: 25.87
Area: 172611
Amount: 4.352161
Amount Units: ppb v/v



Manual Integration Results

RT: 25.87
Area: 188655
Amount: 4.695394
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:29:00
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

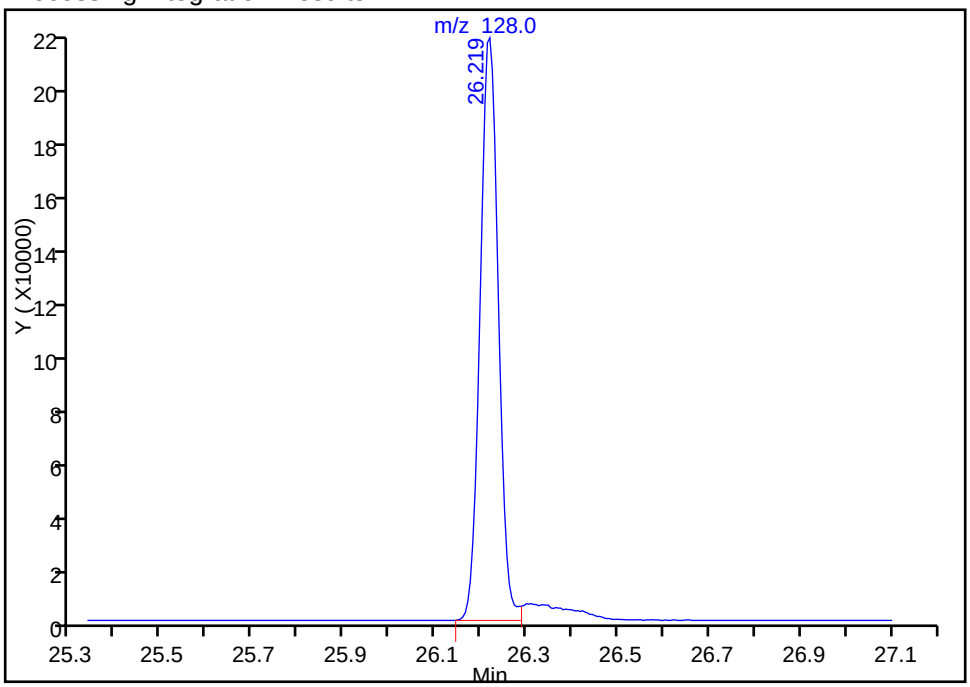
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_07.D				
Injection Date:	17-Aug-2015 20:33:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

106 Naphthalene, CAS: 91-20-3

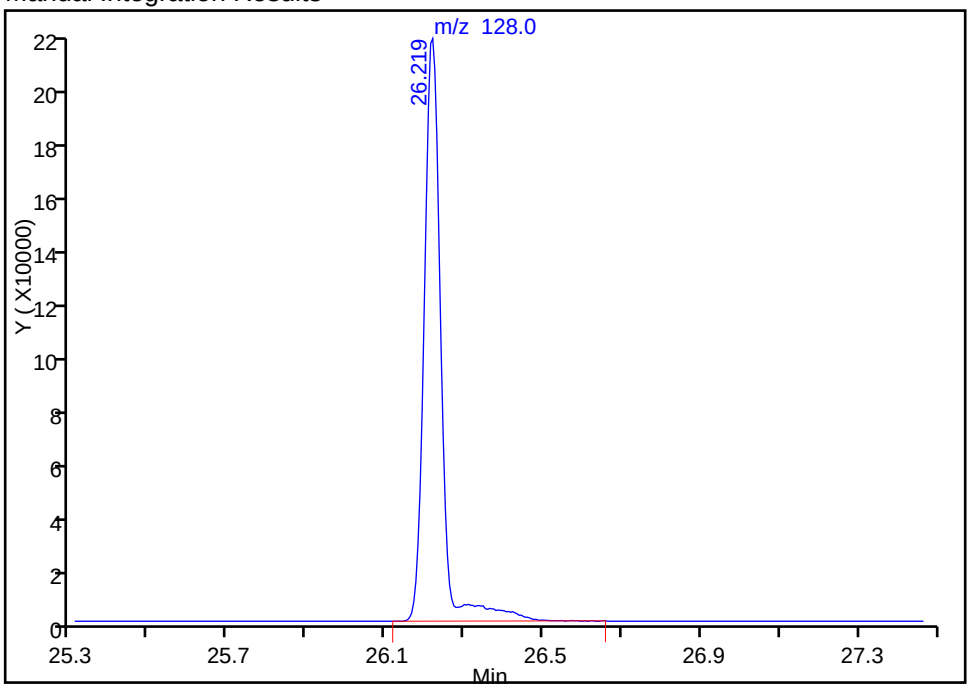
Processing Integration Results

RT: 26.22
Area: 594871
Amount: 4.526070
Amount Units: ppb v/v



Manual Integration Results

RT: 26.22
Area: 638299
Amount: 4.803507
Amount Units: ppb v/v



Reviewer: daiglep, 18-Aug-2015 09:29:00
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_08.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 17-Aug-2015 21:23:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-008
Misc. Info.: icis-05
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:31 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:24:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	99	79619	10.0	10.8	
2 Dichlorodifluoromethane	85	3.161	3.161	0.000	99	367128	10.0	10.6	
3 Chlorodifluoromethane	51	3.209	3.209	0.000	97	178941	10.0	10.7	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.423	3.423	0.000	93	372804	10.0	10.6	
5 Chloromethane	50	3.563	3.563	0.000	99	102928	10.0	10.5	
6 Butane	43	3.755	3.755	0.000	99	165953	10.0	10.4	
7 Vinyl chloride	62	3.803	3.803	0.000	98	132763	10.0	10.8	
8 Butadiene	54	3.878	3.878	0.000	93	92194	10.0	10.4	
9 Bromomethane	94	4.547	4.547	0.000	99	144302	10.0	10.4	
10 Chloroethane	64	4.777	4.777	0.000	99	65465	10.0	10.5	
11 2-Methylbutane	43	4.841	4.841	0.000	91	112761	10.0	9.83	
12 Vinyl bromide	106	5.157	5.157	0.000	99	169183	10.0	10.5	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	98	400212	10.0	10.5	
14 Pentane	43	5.376	5.376	0.000	96	189558	10.0	10.4	
15 Ethanol	45	5.804	5.804	0.000	99	58425	15.0	15.3	
16 Ethyl ether	59	5.895	5.895	0.000	95	86055	10.0	10.7	
17 Acrolein	56	6.280	6.280	0.000	95	41527	10.0	13.7	
18 1,1,2-Trichloro-1,2,2-trif	101	6.286	6.286	0.000	95	317169	10.0	10.4	
20 1,1-Dichloroethene	96	6.344	6.344	0.000	93	151254	10.0	10.6	
21 Acetone	43	6.585	6.585	0.000	89	153320	10.0	9.83	
22 Carbon disulfide	76	6.740	6.740	0.000	98	382581	10.0	10.5	
23 Isopropyl alcohol	45	6.863	6.863	0.000	99	138526	10.0	9.37	
24 3-Chloro-1-propene	41	7.115	7.115	0.000	92	126757	10.0	10.5	
25 Acetonitrile	41	7.265	7.265	0.000	99	73804	10.0	9.98	
26 Methylene Chloride	49	7.409	7.409	0.000	85	132185	10.0	10.1	
28 2-Methyl-2-propanol	59	7.639	7.639	0.000	99	229496	10.0	9.68	
29 Methyl tert-butyl ether	73	7.800	7.800	0.000	96	416407	10.0	10.5	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	90	193989	10.0	10.6	
31 Acrylonitrile	53	8.003	8.003	0.000	96	89386	10.0	10.5	
32 Hexane	57	8.201	8.201	0.000	89	199848	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	258006	10.0	10.4	
34 Vinyl acetate	43	8.773	8.773	0.000	99	316412	10.0	10.9	
35 cis-1,2-Dichloroethene	96	9.816	9.816	0.000	95	188750	10.0	10.5	
36 2-Butanone (MEK)	72	9.865	9.865	0.000	99	77903	10.0	9.41	
37 Ethyl acetate	88	9.897	9.897	0.000	99	13732	10.0	10.5	
S 38 1,2-Dichloroethene, Total	61				0		20.0	21.0	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	82	178277	10.0	10.0	
39 Tetrahydrofuran	42	10.287	10.287	0.000	87	142545	10.0	10.3	
41 Chloroform	83	10.410	10.410	0.000	99	345321	10.0	10.4	
42 Cyclohexane	84	10.656	10.656	0.000	85	247969	10.0	10.2	
43 1,1,1-Trichloroethane	97	10.688	10.688	0.000	97	364721	10.0	10.3	
44 Carbon tetrachloride	117	10.934	10.934	0.000	96	402821	10.0	11.0	
45 Isooctane	57	11.362	11.362	0.000	99	838004	10.0	10.4	
46 Benzene	78	11.416	11.416	0.000	93	573241	10.0	10.1	
47 1,2-Dichloroethane	62	11.609	11.609	0.000	97	204801	10.0	10.3	
48 n-Heptane	43	11.753	11.753	0.000	87	281469	10.0	10.3	
* 50 1,4-Difluorobenzene	114	12.267	12.267	0.000	92	967745	10.0	10.0	
51 n-Butanol	56	12.668	12.668	0.000	84	80367	10.0	8.55	
52 Trichloroethene	95	12.743	12.743	0.000	94	292790	10.0	10.3	
53 1,2-Dichloropropane	63	13.336	13.336	0.000	95	222412	10.0	10.4	
54 Methyl methacrylate	69	13.492	13.492	0.000	83	220565	10.0	10.3	
55 1,4-Dioxane	88	13.567	13.567	0.000	87	92901	10.0	8.75	
56 Dibromomethane	174	13.609	13.609	0.000	90	327060	10.0	9.55	
57 Dichlorobromomethane	83	13.909	13.909	0.000	98	431391	10.0	10.7	
58 cis-1,3-Dichloropropene	75	14.877	14.877	0.000	88	355200	10.0	10.5	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	130098641	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	130345960	10.0	2645.1	
61 4-Methyl-2-pentanone (MIBK	43	15.177	15.177	0.000	93	383249	10.0	10.4	
A 63 Toluene Range	1		(15.472-15.492)				ND	ND	
62 Toluene	92	15.482	15.482	0.000	93	489691	10.0	10.1	
A 65 GRO	1	15.514	(15.514-15.514)		0	3568677	10.0	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	88	431541	10.0	10.3	
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	93	354582	10.0	10.1	
68 1,1,2-Trichloroethane	83	16.487	16.487	0.000	96	230143	10.0	10.2	
69 Tetrachloroethene	166	16.589	16.589	0.000	95	484640	10.0	10.1	
70 2-Hexanone	43	16.942	16.942	0.000	92	370855	10.0	10.3	
71 Chlorodibromomethane	129	17.269	17.269	0.000	98	526159	10.0	11.3	
72 Ethylene Dibromide	107	17.552	17.552	0.000	98	460295	10.0	10.4	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	82	948006	10.0	10.0	
74 Chlorobenzene	112	18.520	18.520	0.000	98	705853	10.0	10.3	
75 Ethylbenzene	91	18.659	18.659	0.000	96	1069819	10.0	10.3	
76 n-Nonane	57	18.761	18.761	0.000	85	459000	10.0	10.3	
77 m-Xylene & p-Xylene	106	18.911	18.911	0.000	99	903046	20.0	20.6	
78 o-Xylene	106	19.729	19.729	0.000	96	445933	10.0	10.3	
79 Styrene	104	19.778	19.778	0.000	98	704947	10.0	10.4	
S 80 Xylenes, Total	106				0		30.0	30.9	
81 Bromoform	173	20.189	20.189	0.000	100	564392	10.0	13.0	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	1267613	10.0	10.2	
* 83 4-Bromofluorobenzene	95	20.724	20.724	0.000	98	634785	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.992	20.992	0.000	98	581197	10.0	9.98	
86 N-Propylbenzene	91	21.045	21.045	0.000	100	1487902	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.088	21.088	0.000	96	457424	10.0	10.3	
88 n-Decane	57	21.190	21.190	0.000	84	595025	10.0	10.5	
89 4-Ethyltoluene	105	21.227	21.227	0.000	98	1289537	10.0	10.3	
90 2-Chlorotoluene	91	21.243	21.243	0.000	96	1003429	10.0	10.3	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	94	1069946	10.0	10.4	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	92	587298	10.0	10.8	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	1059064	10.0	10.3	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	96	1074809	10.0	10.4	
95 sec-Butylbenzene	105	22.110	22.110	0.000	99	1563449	10.0	10.4	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	1372257	10.0	10.4	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	99	822626	10.0	10.3	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	97	831794	10.0	10.3	
99 Benzyl chloride	91	22.698	22.698	0.000	100	945439	10.0	11.2	
100 Undecane	57	22.896	22.896	0.000	71	620516	10.0	10.7	
101 n-Butylbenzene	91	22.902	22.902	0.000	96	1164033	10.0	10.4	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	99	776660	10.0	10.3	
103 Dodecane	57	24.549	24.549	0.000	93	584392	10.0	11.0	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	689770	10.0	9.91	
105 Hexachlorobutadiene	225	25.871	25.871	0.000	99	644122	10.0	9.94	
106 Naphthalene	128	26.219	26.219	0.000	99	1470735	10.0	11.0	
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	95	669275	10.0	10.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

ATTO15CAL4w_00478	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

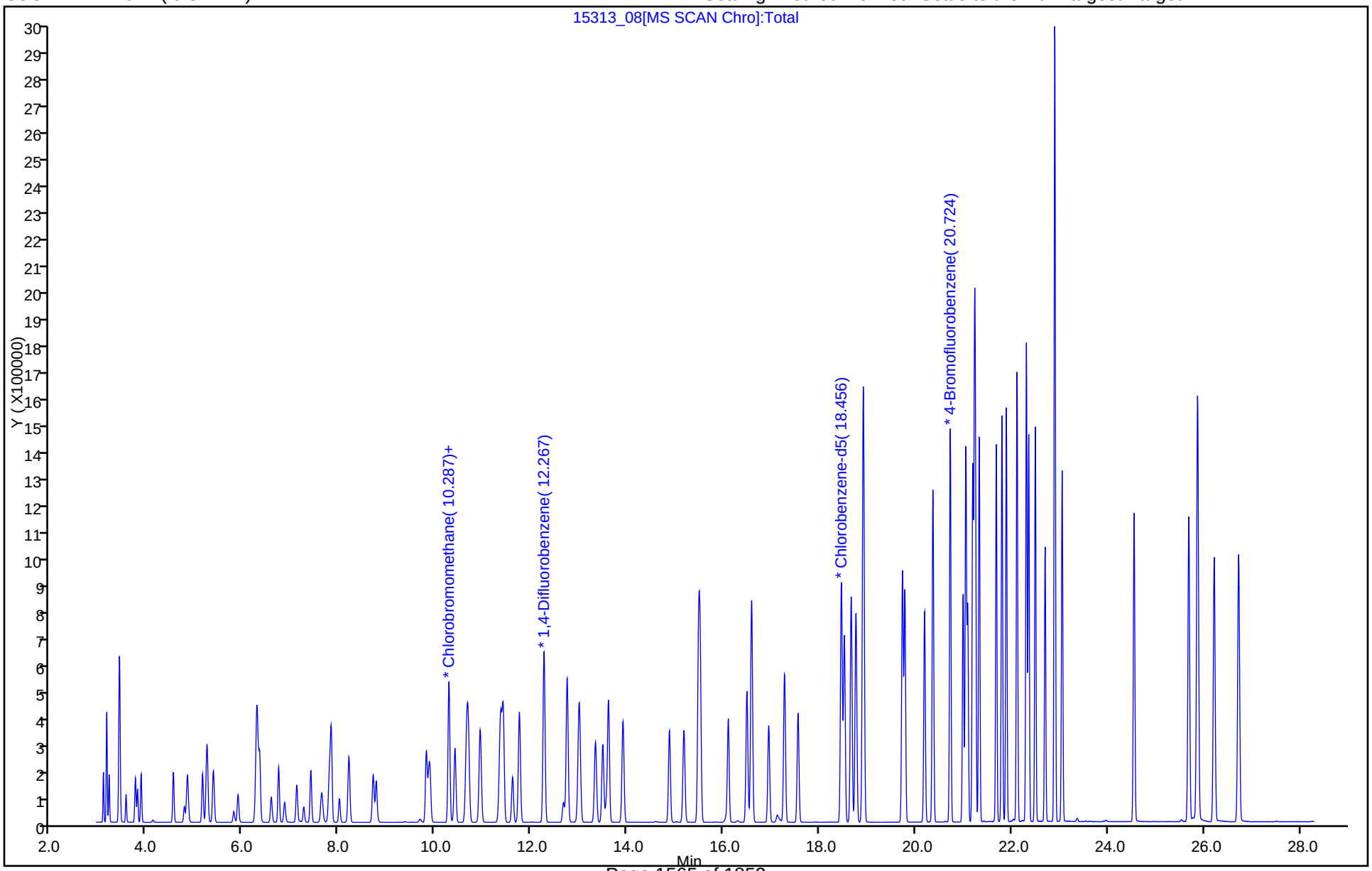
Report Date: 18-Aug-2015 11:12:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_08.D

Injection Date:	17-Aug-2015 21:23:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	icis			Worklist Smp#:	8
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_09.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Aug-2015 22:13:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-009
Misc. Info.: ic-06
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:32 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:25:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	99	115606	15.0	15.2	
2 Dichlorodifluoromethane	85	3.162	3.161	0.001	99	536300	15.0	15.1	
3 Chlorodifluoromethane	51	3.210	3.209	0.001	97	257975	15.0	15.0	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.424	3.423	0.001	96	544022	15.0	15.1	
5 Chloromethane	50	3.563	3.563	0.000	99	151010	15.0	15.1	
6 Butane	43	3.755	3.755	0.000	99	239444	15.0	14.6	
7 Vinyl chloride	62	3.803	3.803	0.000	98	196764	15.0	15.6	
8 Butadiene	54	3.878	3.878	0.000	94	135999	15.0	15.0	
9 Bromomethane	94	4.547	4.547	0.000	99	213878	15.0	15.0	
10 Chloroethane	64	4.777	4.777	0.000	99	96102	15.0	15.1	
11 2-Methylbutane	43	4.841	4.841	0.000	91	164678	15.0	14.0	
12 Vinyl bromide	106	5.157	5.157	0.000	99	249053	15.0	15.1	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	98	589227	15.0	15.0	
14 Pentane	43	5.382	5.376	0.006	96	274252	15.0	14.7	
15 Ethanol	45	5.804	5.804	0.000	98	78878	20.0	20.1	
16 Ethyl ether	59	5.890	5.895	-0.005	94	128246	15.0	15.6	
17 Acrolein	56	6.280	6.280	0.000	96	55901	15.0	18.1	
18 1,1,2-Trichloro-1,2,2-trif	101	6.291	6.286	0.005	95	472941	15.0	15.1	
20 1,1-Dichloroethene	96	6.345	6.344	0.001	93	222376	15.0	15.2	
21 Acetone	43	6.585	6.585	0.000	89	245235	15.0	15.3	
22 Carbon disulfide	76	6.740	6.740	0.000	98	563694	15.0	15.1	
23 Isopropyl alcohol	45	6.858	6.863	-0.005	99	247161	15.0	16.3	
24 3-Chloro-1-propene	41	7.115	7.115	0.000	92	189105	15.0	15.3	
25 Acetonitrile	41	7.265	7.265	0.000	100	117962	15.0	15.6	
26 Methylene Chloride	49	7.409	7.409	0.000	84	191942	15.0	14.3	
28 2-Methyl-2-propanol	59	7.629	7.639	-0.010	99	390536	15.0	16.1	
29 Methyl tert-butyl ether	73	7.805	7.800	0.005	96	611053	15.0	15.1	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	90	282198	15.0	15.0	
31 Acrylonitrile	53	8.003	8.003	0.000	95	133120	15.0	15.2	
32 Hexane	57	8.201	8.201	0.000	89	291527	15.0	14.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	379683	15.0	14.9	
34 Vinyl acetate	43	8.773	8.773	0.000	99	460901	15.0	15.5	
35 cis-1,2-Dichloroethene	96	9.817	9.816	0.001	94	279699	15.0	15.1	
36 2-Butanone (MEK)	72	9.859	9.865	-0.006	100	120992	15.0	14.3	
37 Ethyl acetate	88	9.897	9.897	0.000	97	20908	15.0	15.6	
S 38 1,2-Dichloroethene, Total	61				0		30.0	30.1	
* 40 Chlorobromomethane	128	10.287	10.282	0.005	77	182726	10.0	10.0	
39 Tetrahydrofuran	42	10.282	10.287	-0.005	95	213592	15.0	15.3	
41 Chloroform	83	10.410	10.410	0.000	99	508708	15.0	15.0	
42 Cyclohexane	84	10.651	10.656	-0.005	85	367117	15.0	15.0	
43 1,1,1-Trichloroethane	97	10.689	10.688	0.001	97	538511	15.0	15.1	
44 Carbon tetrachloride	117	10.940	10.934	0.006	96	595426	15.0	16.0	
45 Isooctane	57	11.363	11.362	0.001	99	1231099	15.0	15.1	
46 Benzene	78	11.416	11.416	0.000	93	850668	15.0	14.9	
47 1,2-Dichloroethane	62	11.614	11.609	0.005	97	301746	15.0	15.1	
48 n-Heptane	43	11.753	11.753	0.000	87	408033	15.0	14.8	
* 50 1,4-Difluorobenzene	114	12.267	12.267	0.000	92	977549	10.0	10.0	
51 n-Butanol	56	12.663	12.668	-0.005	83	156227	15.0	16.5	
52 Trichloroethene	95	12.748	12.743	0.005	94	409861	15.0	14.3	
53 1,2-Dichloropropane	63	13.337	13.336	0.001	95	327591	15.0	15.1	
54 Methyl methacrylate	69	13.486	13.492	-0.006	83	329938	15.0	15.3	
55 1,4-Dioxane	88	13.556	13.567	-0.011	86	172495	15.0	16.1	
56 Dibromomethane	174	13.610	13.609	0.001	90	496840	15.0	14.4	
57 Dichlorobromomethane	83	13.909	13.909	0.000	98	636254	15.0	15.6	
58 cis-1,3-Dichloropropene	75	14.877	14.877	0.000	87	521087	15.0	15.3	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	192696159	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	192696159	15.0	3871.2	
61 4-Methyl-2-pentanone (MIBK	43	15.172	15.177	-0.005	93	567275	15.0	15.2	
A 63 Toluene Range	1		(15.472-15.492)				ND	ND	
62 Toluene	92	15.482	15.482	0.000	93	727136	15.0	14.9	
A 65 GRO	1	15.514	(15.514-15.514)		0	5270307	15.0	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	88	626206	15.0	14.8	
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	93	525377	15.0	14.8	
68 1,1,2-Trichloroethane	83	16.488	16.487	0.001	96	344310	15.0	15.1	
69 Tetrachloroethene	166	16.589	16.589	0.000	95	721350	15.0	14.8	
70 2-Hexanone	43	16.942	16.942	0.000	92	552940	15.0	15.2	
71 Chlorodibromomethane	129	17.274	17.269	0.005	98	773759	15.0	16.4	
72 Ethylene Dibromide	107	17.552	17.552	0.000	99	689606	15.0	15.4	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	82	959414	10.0	10.0	
74 Chlorobenzene	112	18.521	18.520	0.001	98	1050334	15.0	15.1	
75 Ethylbenzene	91	18.660	18.659	0.001	96	1587982	15.0	15.1	
76 n-Nonane	57	18.761	18.761	0.000	85	673141	15.0	14.9	
77 m-Xylene & p-Xylene	106	18.916	18.911	0.005	99	1343786	30.0	30.3	
78 o-Xylene	106	19.730	19.729	0.001	95	663048	15.0	15.1	
79 Styrene	104	19.778	19.778	0.000	98	1044542	15.0	15.2	
S 80 Xylenes, Total	106				0		45.0	45.4	
81 Bromoform	173	20.190	20.189	0.001	100	800301	15.0	18.2	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	1904124	15.0	15.2	
* 83 4-Bromofluorobenzene	95	20.725	20.724	0.001	98	639878	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.992	20.992	0.000	98	920841	15.0	15.6	
86 N-Propylbenzene	91	21.046	21.045	0.001	100	2210049	15.0	15.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.088	21.088	0.000	96	680056	15.0	15.1	
88 n-Decane	57	21.190	21.190	0.000	83	873541	15.0	15.3	
89 4-Ethyltoluene	105	21.227	21.227	0.000	98	1926124	15.0	15.2	
90 2-Chlorotoluene	91	21.249	21.243	0.006	96	1490410	15.0	15.1	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	95	1591961	15.0	15.2	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	92	870386	15.0	15.8	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	1582555	15.0	15.2	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	96	1601792	15.0	15.3	
95 sec-Butylbenzene	105	22.116	22.110	0.006	99	2334756	15.0	15.3	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	2059610	15.0	15.4	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	99	1224566	15.0	15.2	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	97	1233878	15.0	15.1	
99 Benzyl chloride	91	22.699	22.698	0.001	100	1368379	15.0	16.1	
100 Undecane	57	22.897	22.896	0.001	71	905738	15.0	15.4	
101 n-Butylbenzene	91	22.902	22.902	0.000	96	1663811	15.0	14.8	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	99	1161892	15.0	15.2	
103 Dodecane	57	24.550	24.549	0.001	93	843183	15.0	15.7	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	1040101	15.0	14.8	
105 Hexachlorobutadiene	225	25.871	25.871	0.000	99	998827	15.0	15.2	
106 Naphthalene	128	26.219	26.219	0.000	99	1863786	15.0	13.8	
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	96	973583	15.0	15.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

ATTO15CAL5w_00055	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

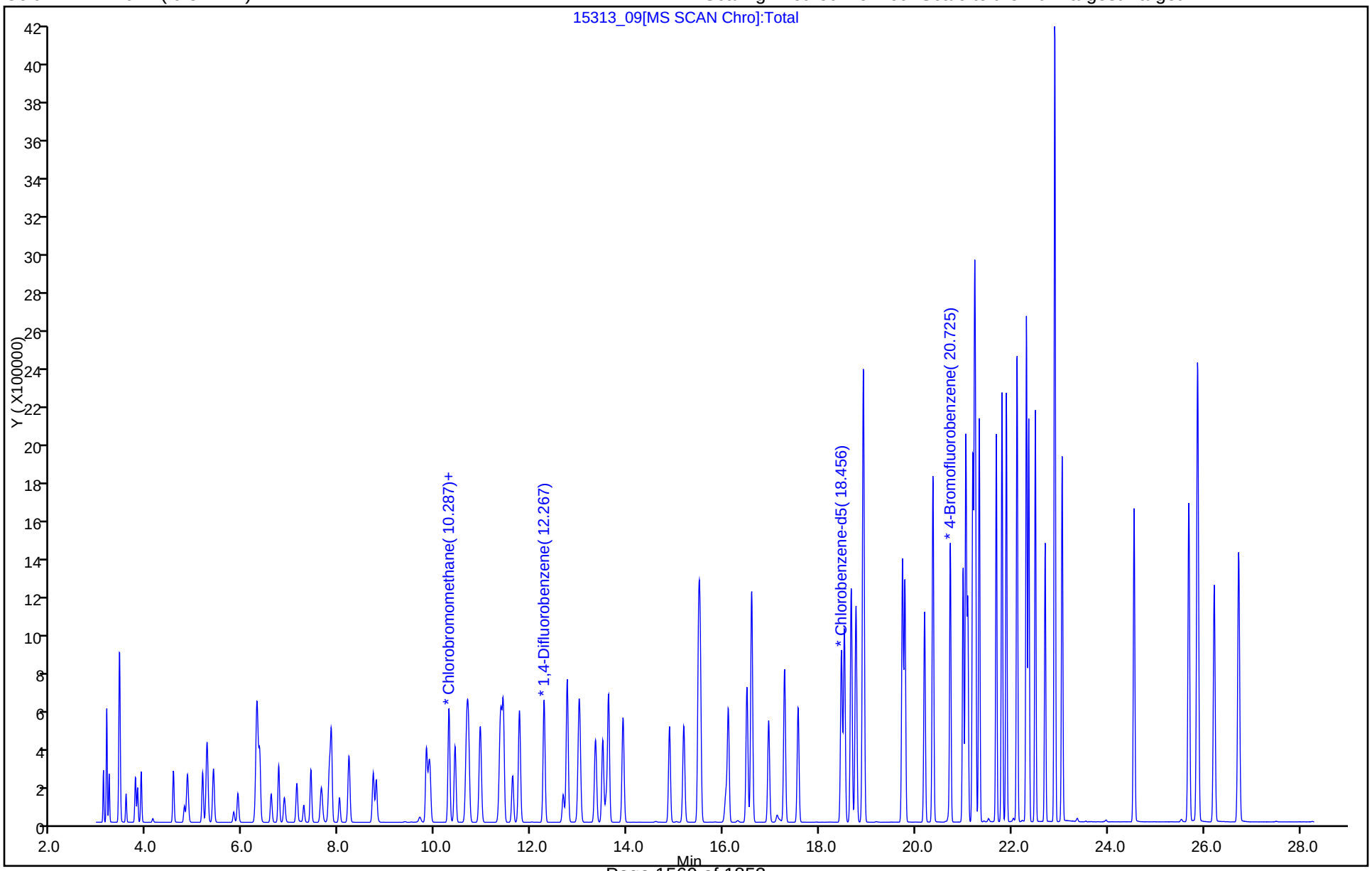
Report Date: 18-Aug-2015 11:12:33 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_09.D

Injection Date:	17-Aug-2015 22:13:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_10.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Aug-2015 23:02:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-010
Misc. Info.: ic-07
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:34 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:26:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	99	147627	20.0	18.6	
2 Dichlorodifluoromethane	85	3.161	3.161	0.000	99	688331	20.0	18.5	
3 Chlorodifluoromethane	51	3.210	3.209	0.001	97	327136	20.0	18.2	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.429	3.423	0.006	93	696918	20.0	18.4	
5 Chloromethane	50	3.563	3.563	0.000	99	190924	20.0	18.2	
6 Butane	43	3.761	3.755	0.006	99	302089	20.0	17.6	
7 Vinyl chloride	62	3.803	3.803	0.000	98	248778	20.0	18.8	
8 Butadiene	54	3.878	3.878	0.000	93	172388	20.0	18.2	
9 Bromomethane	94	4.552	4.547	0.005	99	279157	20.0	18.7	
10 Chloroethane	64	4.777	4.777	0.000	99	122905	20.0	18.4	
11 2-Methylbutane	43	4.841	4.841	0.000	90	206973	20.0	16.8	
12 Vinyl bromide	106	5.157	5.157	0.000	99	320535	20.0	18.6	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	98	757146	20.0	18.5	
14 Pentane	43	5.382	5.376	0.006	96	348993	20.0	17.8	
15 Ethanol	45	5.804	5.804	0.000	97	152414	40.0	37.1	
16 Ethyl ether	59	5.890	5.895	-0.005	94	164407	20.0	19.1	
17 Acrolein	56	6.280	6.280	0.000	97	57144	20.0	17.6	
18 1,1,2-Trichloro-1,2,2-trif	101	6.291	6.286	0.005	95	606055	20.0	18.5	
20 1,1-Dichloroethene	96	6.345	6.344	0.000	93	288899	20.0	18.8	
21 Acetone	43	6.585	6.585	0.000	89	332279	20.0	19.9	
22 Carbon disulfide	76	6.740	6.740	0.000	98	735941	20.0	18.9	
23 Isopropyl alcohol	45	6.858	6.863	-0.005	99	322857	20.0	20.4	
24 3-Chloro-1-propene	41	7.120	7.115	0.005	91	236424	20.0	18.3	
25 Acetonitrile	41	7.265	7.265	0.000	100	151523	20.0	19.1	
26 Methylene Chloride	49	7.414	7.409	0.005	84	245762	20.0	17.4	
28 2-Methyl-2-propanol	59	7.628	7.639	-0.011	99	506551	20.0	19.9	
29 Methyl tert-butyl ether	73	7.800	7.800	0.000	96	791200	20.0	18.6	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	90	362220	20.0	18.4	
31 Acrylonitrile	53	8.008	8.003	0.005	95	170432	20.0	18.6	
32 Hexane	57	8.206	8.201	0.005	88	371423	20.0	17.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	484720	20.0	18.2	
34 Vinyl acetate	43	8.773	8.773	0.000	99	576389	20.0	18.5	
35 cis-1,2-Dichloroethene	96	9.816	9.816	0.000	94	360505	20.0	18.6	
36 2-Butanone (MEK)	72	9.865	9.865	0.000	100	157943	20.0	17.8	
37 Ethyl acetate	88	9.891	9.897	-0.006	97	26996	20.0	19.2	
S 38 1,2-Dichloroethene, Total	61				0		40.0	37.0	
* 40 Chlorobromomethane	128	10.287	10.282	0.005	77	191191	10.0	10.0	
39 Tetrahydrofuran	42	10.282	10.287	-0.005	89	271947	20.0	19.5	
41 Chloroform	83	10.416	10.410	0.006	99	656531	20.0	18.5	
42 Cyclohexane	84	10.656	10.656	0.000	85	473473	20.0	19.3	
43 1,1,1-Trichloroethane	97	10.694	10.688	0.006	97	692478	20.0	19.4	
44 Carbon tetrachloride	117	10.940	10.934	0.006	96	665674	20.0	17.9	
45 Isooctane	57	11.363	11.362	0.001	99	1581525	20.0	19.3	
46 Benzene	78	11.421	11.416	0.005	93	1094952	20.0	19.1	
47 1,2-Dichloroethane	62	11.614	11.609	0.005	97	386358	20.0	19.2	
48 n-Heptane	43	11.753	11.753	0.000	86	515909	20.0	18.7	
* 50 1,4-Difluorobenzene	114	12.267	12.267	0.000	92	980749	10.0	10.0	
51 n-Butanol	56	12.668	12.668	0.000	82	199142	20.0	20.9	
52 Trichloroethene	95	12.748	12.743	0.005	93	571789	20.0	19.8	
53 1,2-Dichloropropane	63	13.337	13.336	0.001	95	422687	20.0	19.4	
54 Methyl methacrylate	69	13.486	13.492	-0.006	83	424575	20.0	19.6	
55 1,4-Dioxane	88	13.561	13.567	-0.006	86	231199	20.0	21.5	
56 Dibromomethane	174	13.609	13.609	0.000	89	707881	20.0	20.4	
57 Dichlorobromomethane	83	13.909	13.909	0.000	98	790218	20.0	19.3	
58 cis-1,3-Dichloropropene	75	14.877	14.877	0.000	87	676517	20.0	19.8	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	247590119	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	247590119	20.0	4957.8	
61 4-Methyl-2-pentanone (MIBK	43	15.177	15.177	0.000	92	719425	20.0	19.2	
A 63 Toluene Range	1		(15.472-15.492)				ND	ND	
62 Toluene	92	15.482	15.482	0.000	93	957398	20.0	19.5	
A 65 GRO	1	15.514	(15.514-15.514)		0	6820846	20.0	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	86	785212	20.0	18.5	
67 trans-1,3-Dichloropropene	75	16.102	16.102	0.000	93	670483	20.0	18.8	
68 1,1,2-Trichloroethane	83	16.493	16.487	0.006	96	445240	20.0	19.5	
69 Tetrachloroethene	166	16.589	16.589	0.000	95	952351	20.0	19.5	
70 2-Hexanone	43	16.937	16.942	-0.005	92	703504	20.0	19.3	
71 Chlorodibromomethane	129	17.274	17.269	0.005	98	893824	20.0	18.9	
72 Ethylene Dibromide	107	17.557	17.552	0.005	98	894793	20.0	19.9	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	81	962947	10.0	10.0	
74 Chlorobenzene	112	18.520	18.520	0.000	99	1373195	20.0	19.7	
75 Ethylbenzene	91	18.660	18.659	0.001	96	2067415	20.0	19.6	
76 n-Nonane	57	18.761	18.761	0.000	85	862327	20.0	19.0	
77 m-Xylene & p-Xylene	106	18.916	18.911	0.005	99	1753357	40.0	39.3	
78 o-Xylene	106	19.729	19.729	0.000	96	864306	20.0	19.6	
79 Styrene	104	19.778	19.778	0.000	98	1340404	20.0	19.5	
S 80 Xylenes, Total	106				0		60.0	59.0	
81 Bromoform	173	20.190	20.189	0.001	99	747541	20.0	16.9	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	2455967	20.0	19.5	
* 83 4-Bromofluorobenzene	95	20.725	20.724	0.000	98	639653	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.992	20.992	0.000	98	1095183	20.0	18.5	
86 N-Propylbenzene	91	21.051	21.045	0.006	100	2862524	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.088	21.088	0.000	96	869202	20.0	19.3	
88 n-Decane	57	21.190	21.190	0.000	83	1097936	20.0	19.1	
89 4-Ethyltoluene	105	21.227	21.227	0.000	98	2485215	20.0	19.6	
90 2-Chlorotoluene	91	21.249	21.243	0.006	96	1925859	20.0	19.4	
91 1,3,5-Trimethylbenzene	105	21.329	21.324	0.005	95	2060828	20.0	19.7	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	92	1022373	20.0	18.5	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	2043539	20.0	19.6	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	95	2074788	20.0	19.7	
95 sec-Butylbenzene	105	22.115	22.110	0.005	99	3012184	20.0	19.7	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	2603395	20.0	19.4	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	99	1619152	20.0	20.0	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	97	1636540	20.0	20.0	
99 Benzyl chloride	91	22.699	22.698	0.001	100	1593524	20.0	18.6	
100 Undecane	57	22.896	22.896	0.000	73	1142006	20.0	19.4	
101 n-Butylbenzene	91	22.902	22.902	0.000	96	1974285	20.0	17.4	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	99	1522188	20.0	19.9	
103 Dodecane	57	24.550	24.549	0.001	93	1092276	20.0	20.3	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	1486418	20.0	21.0	
105 Hexachlorobutadiene	225	25.876	25.871	0.005	99	1311617	20.0	19.9	
106 Naphthalene	128	26.219	26.219	0.000	99	2882160	20.0	21.3	
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	95	1380654	20.0	21.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

ATTO15CAL6w_00111	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

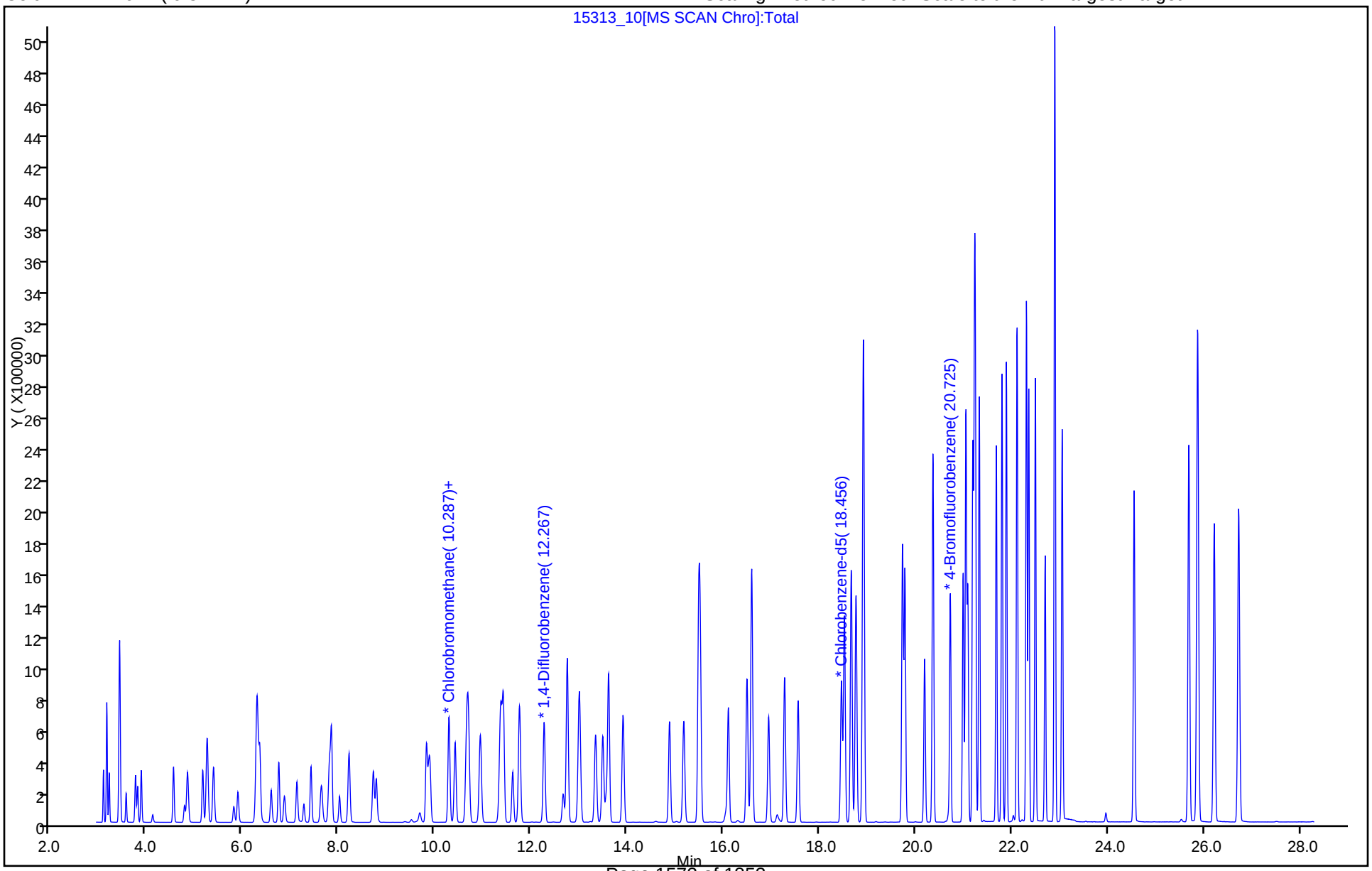
Report Date: 18-Aug-2015 11:12:34 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_10.D

Injection Date:	17-Aug-2015 23:02:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 17-Aug-2015 23:52:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-011
Misc. Info.: ic-08
Operator ID: pad Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:36 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 09:27:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	99	293103	40.0	36.1	
2 Dichlorodifluoromethane	85	3.161	3.161	0.000	99	1416178	40.0	37.2	
3 Chlorodifluoromethane	51	3.209	3.209	0.000	97	673303	40.0	36.6	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.429	3.423	0.006	94	1436768	40.0	37.1	
5 Chloromethane	50	3.568	3.563	0.005	99	393541	40.0	36.7	
6 Butane	43	3.760	3.755	0.005	98	611813	40.0	34.8	
7 Vinyl chloride	62	3.809	3.803	0.006	98	512756	40.0	38.0	
8 Butadiene	54	3.884	3.878	0.006	93	353849	40.0	36.5	
9 Bromomethane	94	4.552	4.547	0.005	99	581679	40.0	38.0	
10 Chloroethane	64	4.782	4.777	0.005	99	256075	40.0	37.5	
11 2-Methylbutane	43	4.846	4.841	0.005	90	426323	40.0	33.9	
12 Vinyl bromide	106	5.162	5.157	0.005	99	670234	40.0	38.0	
13 Trichlorofluoromethane	101	5.253	5.248	0.005	98	1570842	40.0	37.4	
14 Pentane	43	5.387	5.376	0.011	96	707953	40.0	35.3	
15 Ethanol	45	5.815	5.804	0.011	97	370809	100.0	88.3	
16 Ethyl ether	59	5.890	5.895	-0.005	92	334842	40.0	38.0	
17 Acrolein	56	6.286	6.280	0.006	57	57386	40.0	17.3	
18 1,1,2-Trichloro-1,2,2-trif	101	6.296	6.286	0.010	94	1256523	40.0	37.4	
20 1,1-Dichloroethene	96	6.350	6.344	0.006	93	596610	40.0	38.0	
21 Acetone	43	6.585	6.585	0.000	89	604454	40.0	35.3	
22 Carbon disulfide	76	6.746	6.740	0.006	98	1508299	40.0	37.8	
23 Isopropyl alcohol	45	6.869	6.863	0.006	99	624384	40.0	38.5	
24 3-Chloro-1-propene	41	7.120	7.115	0.005	91	443769	40.0	33.5	
25 Acetonitrile	41	7.270	7.265	0.005	100	301814	40.0	37.2	
26 Methylene Chloride	49	7.414	7.409	0.005	83	492671	40.0	34.2	
28 2-Methyl-2-propanol	59	7.634	7.639	-0.005	99	1005737	40.0	38.7	
29 Methyl tert-butyl ether	73	7.800	7.800	0.000	95	1622319	40.0	37.3	
30 trans-1,2-Dichloroethene	61	7.842	7.837	0.005	89	738694	40.0	36.6	
31 Acrylonitrile	53	8.014	8.003	0.011	95	351437	40.0	37.5	
32 Hexane	57	8.206	8.201	0.005	88	760933	40.0	35.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.714	8.709	0.005	99	998726	40.0	36.7	
34 Vinyl acetate	43	8.779	8.773	0.006	99	1181596	40.0	37.0	
35 cis-1,2-Dichloroethene	96	9.822	9.816	0.006	93	748190	40.0	37.8	
36 2-Butanone (MEK)	72	9.865	9.865	-0.001	100	317730	40.0	35.0	
37 Ethyl acetate	88	9.891	9.897	-0.006	98	54940	40.0	38.2	
S 38 1,2-Dichloroethene, Total	61				0		80.0	74.4	
* 40 Chlorobromomethane	128	10.292	10.282	0.010	81	195650	10.0	10.0	
39 Tetrahydrofuran	42	10.282	10.287	-0.005	88	550582	40.0	38.4	
41 Chloroform	83	10.416	10.410	0.006	99	1352467	40.0	37.2	
42 Cyclohexane	84	10.662	10.656	0.006	84	974894	40.0	38.7	
43 1,1,1-Trichloroethane	97	10.694	10.688	0.006	96	1444367	40.0	39.4	
44 Carbon tetrachloride	117	10.940	10.934	0.006	96	1607404	40.0	42.1	
45 Isooctane	57	11.368	11.362	0.006	99	3206482	40.0	38.1	
46 Benzene	78	11.421	11.416	0.005	93	2248333	40.0	38.3	
47 1,2-Dichloroethane	62	11.614	11.609	0.005	97	795366	40.0	38.6	
48 n-Heptane	43	11.758	11.753	0.005	85	1041893	40.0	36.8	
* 50 1,4-Difluorobenzene	114	12.272	12.267	0.005	92	1006086	10.0	10.0	
51 n-Butanol	56	12.662	12.668	-0.006	83	406800	40.0	41.6	
52 Trichloroethene	95	12.748	12.743	0.005	93	1099379	40.0	37.1	
53 1,2-Dichloropropane	63	13.342	13.336	0.006	95	869152	40.0	38.9	
54 Methyl methacrylate	69	13.492	13.492	0.000	81	879348	40.0	39.5	
55 1,4-Dioxane	88	13.561	13.567	-0.006	86	438987	40.0	39.8	
56 Dibromomethane	174	13.615	13.609	0.006	89	1379467	40.0	38.8	
57 Dichlorobromomethane	83	13.914	13.909	0.005	98	1690582	40.0	40.3	
58 cis-1,3-Dichloropropene	75	14.883	14.877	0.006	87	1404582	40.0	40.1	
A 59 Total Hydrocarbons	1	14.971	(3.054-26.887)		0	505294747	NC	NC	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	505294747	40.0	9863.3	
61 4-Methyl-2-pentanone (MIBK	43	15.177	15.177	0.000	91	1452676	40.0	37.8	
A 63 Toluene Range	1		(15.472-15.492)				ND	ND	
62 Toluene	92	15.487	15.482	0.005	93	1950494	40.0	38.6	
A 65 GRO	1	15.514	(15.514-15.514)		0	13768992	40.0	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.519	15.514	0.005	84	1552346	40.0	35.6	
67 trans-1,3-Dichloropropene	75	16.108	16.102	0.006	92	1391292	40.0	38.1	
68 1,1,2-Trichloroethane	83	16.493	16.487	0.006	96	919569	40.0	39.0	
69 Tetrachloroethene	166	16.594	16.589	0.005	94	1986893	40.0	39.5	
70 2-Hexanone	43	16.942	16.942	0.000	91	1419344	40.0	37.8	
71 Chlorodibromomethane	129	17.279	17.269	0.010	98	2061192	40.0	42.3	
72 Ethylene Dibromide	107	17.557	17.552	0.005	98	1857346	40.0	40.1	
* 73 Chlorobenzene-d5	117	18.461	18.456	0.005	81	992254	10.0	10.0	
74 Chlorobenzene	112	18.520	18.520	0.000	99	2853671	40.0	39.7	
75 Ethylbenzene	91	18.665	18.659	0.006	96	4271792	40.0	39.2	
76 n-Nonane	57	18.761	18.761	0.000	84	1735272	40.0	37.1	
77 m-Xylene & p-Xylene	106	18.916	18.911	0.005	99	3608247	80.0	78.6	
78 o-Xylene	106	19.735	19.729	0.006	96	1787948	40.0	39.4	
79 Styrene	104	19.783	19.778	0.005	98	2842089	40.0	40.1	
S 80 Xylenes, Total	106				0		120.0	117.9	
81 Bromoform	173	20.189	20.189	0.000	99	2000470	40.0	43.9	
82 Isopropylbenzene	105	20.366	20.361	0.005	94	5117881	40.0	39.5	
* 83 4-Bromofluorobenzene	95	20.724	20.724	0.000	98	653208	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.992	20.992	0.000	98	2408856	40.0	39.5	
86 N-Propylbenzene	91	21.051	21.045	0.006	100	5852479	40.0	38.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.088	21.088	0.000	96	1774249	40.0	38.2	
88 n-Decane	57	21.195	21.190	0.005	82	2060487	40.0	34.8	
89 4-Ethyltoluene	105	21.233	21.227	0.006	98	5007218	40.0	38.3	
90 2-Chlorotoluene	91	21.249	21.243	0.006	96	3914379	40.0	38.2	
91 1,3,5-Trimethylbenzene	105	21.329	21.324	0.005	94	4103368	40.0	38.0	
92 Alpha Methyl Styrene	118	21.687	21.682	0.005	92	2253838	40.0	39.6	
93 tert-Butylbenzene	119	21.805	21.800	0.005	96	4010081	40.0	37.2	
94 1,2,4-Trimethylbenzene	105	21.896	21.891	0.005	96	4040427	40.0	37.3	
95 sec-Butylbenzene	105	22.115	22.110	0.005	99	5801638	40.0	36.9	
96 4-Isopropyltoluene	119	22.313	22.308	0.005	98	5332076	40.0	38.5	
97 1,3-Dichlorobenzene	146	22.361	22.356	0.005	99	3132687	40.0	37.6	
98 1,4-Dichlorobenzene	146	22.501	22.495	0.005	97	3154352	40.0	37.4	
99 Benzyl chloride	91	22.698	22.698	0.000	100	3480432	40.0	39.5	
100 Undecane	57	22.902	22.896	0.006	89	2169541	40.0	35.7	
101 n-Butylbenzene	91	22.902	22.902	0.000	96	4370458	40.0	37.5	
102 1,2-Dichlorobenzene	146	23.057	23.052	0.005	99	2985410	40.0	37.8	
103 Dodecane	57	24.549	24.549	0.000	93	1545129	40.0	27.9	
104 1,2,4-Trichlorobenzene	180	25.694	25.689	0.005	93	2970105	40.0	40.8	
105 Hexachlorobutadiene	225	25.876	25.871	0.005	99	2625229	40.0	38.7	
106 Naphthalene	128	26.224	26.219	0.005	99	5763656	40.0	41.3	
107 1,2,3-Trichlorobenzene	180	26.732	26.727	0.005	96	2527390	40.0	37.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

ATTO15CAL7w_00056	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

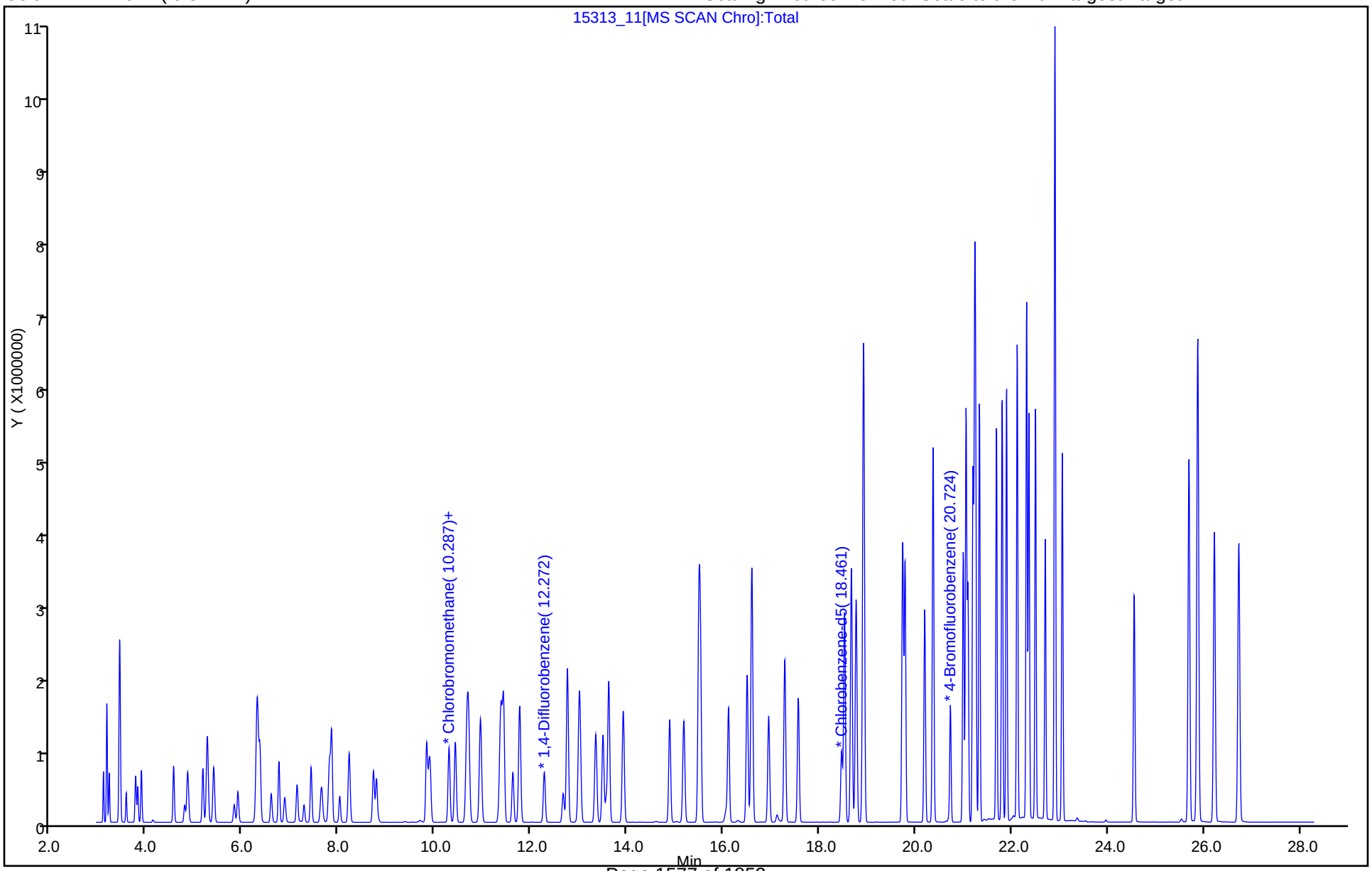
Report Date: 18-Aug-2015 11:12:36 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Injection Date:	17-Aug-2015 23:52:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: ICV 200-94650/13 Calibration Date: 09/28/2015 23:58

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 15979_013.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4778	0.4156		8.70	10.0	-13.0	30.0
Dichlorodifluoromethane	Ave	3.176	2.907		9.15	10.0	-8.5	30.0
Freon 22	Ave	1.280	1.141		8.91	10.0	-10.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.736	2.770		10.1	10.0	1.3	30.0
Chloromethane	Ave	0.6203	0.5218		8.41	10.0	-15.9	30.0
n-Butane	Ave	0.9037	0.7974		8.82	10.0	-11.8	30.0
Vinyl chloride	Ave	0.7285	0.6640		9.11	10.0	-8.9	30.0
1,3-Butadiene	Ave	0.5005	0.4343		8.68	10.0	-13.2	30.0
Bromomethane	Ave	0.9366	0.8126		8.67	10.0	-13.2	30.0
Chloroethane	Ave	0.4834	0.4417		9.14	10.0	-8.6	30.0
Isopentane	Ave	0.7339	0.7633		10.4	10.0	4.0	30.0
Bromoethene(Vinyl Bromide)	Ave	1.152	1.115		9.68	10.0	-3.2	30.0
Trichlorofluoromethane	Ave	3.605	3.336		9.25	10.0	-7.4	30.0
n-Pentane	Ave	1.080	1.128		10.4	10.0	4.4	30.0
Ethanol	Ave	0.3056	0.2670		13.1	15.0	-12.6	30.0
Ethyl ether	Ave	0.5405	0.5987		11.1	10.0	10.8	30.0
Acrolein	Ave	0.1991	0.2237		11.2	10.0	12.3	30.0
Freon TF	Ave	2.334	2.224		9.52	10.0	-4.7	30.0
1,1-Dichloroethene	Ave	1.035	1.023		9.89	10.0	-1.1	30.0
Acetone	Ave	1.119	1.075		9.60	10.0	-3.9	30.0
Carbon disulfide	Ave	2.491	2.668		10.7	10.0	7.1	30.0
Isopropyl alcohol	Ave	0.8922	0.7712		8.64	10.0	-13.6	30.0
3-Chloropropene	Ave	0.7255	0.6677		9.20	10.0	-8.0	30.0
Acetonitrile	Ave	0.4045	0.4119		10.2	10.0	1.8	30.0
Methylene Chloride	Ave	0.8207	0.7433		9.06	10.0	-9.4	30.0
tert-Butyl alcohol	Ave	1.577	1.434		9.10	10.0	-9.0	30.0
Methyl tert-butyl ether	Ave	2.745	2.877		10.5	10.0	4.8	30.0
trans-1,2-Dichloroethene	Ave	1.241	1.294		10.4	10.0	4.3	30.0
Acrylonitrile	Ave	0.4996	0.5035		10.1	10.0	0.8	30.0
n-Hexane	Ave	1.089	1.221		11.2	10.0	12.2	30.0
1,1-Dichloroethane	Ave	1.608	1.558		9.69	10.0	-3.1	30.0
Vinyl acetate	Ave	1.567	1.526		9.74	10.0	-2.6	30.0
cis-1,2-Dichloroethene	Ave	1.161	1.140		9.82	10.0	-1.8	30.0
Methyl Ethyl Ketone	Ave	0.5174	0.4766		9.21	10.0	-7.9	30.0
Ethyl acetate	Ave	0.0948	0.0983		10.4	10.0	3.6	30.0
Tetrahydrofuran	Ave	0.1540	0.1541		10.0	10.0	0.0	30.0
Chloroform	Ave	2.465	2.345		9.51	10.0	-4.9	30.0
Cyclohexane	Ave	0.2896	0.3093		10.7	10.0	6.8	30.0
1,1,1-Trichloroethane	Ave	0.6207	0.6059		9.76	10.0	-2.4	30.0
Carbon tetrachloride	Ave	0.6831	0.6797		9.95	10.0	-0.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: ICV 200-94650/13 Calibration Date: 09/28/2015 23:58

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 15979_013.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7845	0.8280		10.6	10.0	5.5	30.0
Benzene	Ave	0.6769	0.6742		9.96	10.0	-0.4	30.0
1,2-Dichloroethane	Ave	0.3249	0.3155		9.71	10.0	-2.9	30.0
n-Heptane	Ave	0.2444	0.2602		10.6	10.0	6.5	30.0
n-Butanol	Ave	0.0874	0.0902		10.3	10.0	3.2	30.0
Trichloroethene	Ave	0.3474	0.3511		10.1	10.0	1.1	30.0
1,2-Dichloropropane	Ave	0.2160	0.2065		9.56	10.0	-4.4	30.0
Methyl methacrylate	Ave	0.2304	0.2418		10.5	10.0	5.0	30.0
1,4-Dioxane	Ave	0.1186	0.1164		9.81	10.0	-1.9	30.0
Dibromomethane	Ave	0.4611	0.4548		9.86	10.0	-1.4	30.0
Bromodichloromethane	Ave	0.5903	0.5646		9.56	10.0	-4.4	30.0
cis-1,3-Dichloropropene	Ave	0.3538	0.3846		10.9	10.0	8.7	30.0
methyl isobutyl ketone	Ave	0.3557	0.3629		10.2	10.0	2.0	30.0
n-Octane	Ave	0.3247	0.3636		11.2	10.0	12.0	30.0
Toluene	Ave	0.5785	0.5898		10.2	10.0	2.0	30.0
trans-1,3-Dichloropropene	Ave	0.4055	0.4304		10.6	10.0	6.1	30.0
1,1,2-Trichloroethane	Ave	0.2770	0.2783		10.0	10.0	0.5	30.0
Tetrachloroethene	Ave	0.6961	0.7240		10.4	10.0	4.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3868	0.3822		9.88	10.0	-1.2	30.0
Dibromochloromethane	Ave	0.7919	0.7701		9.72	10.0	-2.8	30.0
1,2-Dibromoethane	Ave	0.5911	0.6037		10.2	10.0	2.1	30.0
Chlorobenzene	Ave	0.9328	0.9282		9.95	10.0	-0.5	30.0
Ethylbenzene	Ave	1.294	1.373		10.6	10.0	6.1	30.0
n-Nonane	Ave	0.4245	0.4557		10.7	10.0	7.4	30.0
m,p-Xylene	Ave	0.5226	0.5548		21.2	20.0	6.2	30.0
Xylene, o-	Ave	0.5153	0.5743		11.1	10.0	11.5	30.0
Styrene	Ave	0.8077	0.8940		11.1	10.0	10.7	30.0
Bromoform	Ave	0.8591	0.8588		9.99	10.0	-0.0	30.0
Cumene	Ave	1.578	1.727		10.9	10.0	9.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7984	0.8144		10.2	10.0	2.0	30.0
n-Propylbenzene	Ave	1.900	2.054		10.8	10.0	8.1	30.0
1,2,3-Trichloropropane	Ave	0.6309	0.6161		9.76	10.0	-2.3	30.0
n-Decane	Ave	0.6528	0.6776		10.4	10.0	3.8	30.0
4-Ethyltoluene	Ave	1.745	1.919		11.0	10.0	10.0	30.0
2-Chlorotoluene	Ave	1.465	1.496		10.2	10.0	2.1	30.0
1,3,5-Trimethylbenzene	Ave	1.509	1.613		10.7	10.0	6.9	30.0
Alpha Methyl Styrene	Ave	0.7466	0.8844		11.8	10.0	18.5	30.0
tert-Butylbenzene	Ave	1.491	1.629		10.9	10.0	9.2	30.0
1,2,4-Trimethylbenzene	Ave	1.495	1.621		10.8	10.0	8.4	30.0
sec-Butylbenzene	Ave	2.092	2.284		10.9	10.0	9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: ICV 200-94650/13 Calibration Date: 09/28/2015 23:58

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 15979_013.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.846	2.079		11.3	10.0	12.7	30.0
1,3-Dichlorobenzene	Ave	1.238	1.305		10.5	10.0	5.4	30.0
1,4-Dichlorobenzene	Ave	1.222	1.306		10.7	10.0	6.9	30.0
Benzyl chloride	Ave	1.293	1.311		10.1	10.0	1.4	30.0
n-Undecane	Ave	0.6923	0.7334		10.6	10.0	5.9	30.0
n-Butylbenzene	Ave	1.577	1.652		10.5	10.0	4.8	30.0
1,2-Dichlorobenzene	Ave	1.194	1.265		10.6	10.0	6.0	30.0
n-Dodecane	Ave	0.6254	0.6908		11.0	10.0	10.5	30.0
1,2,4-Trichlorobenzene	Ave	0.997	1.053		10.6	10.0	5.6	30.0
Hexachlorobutadiene	Ave	0.9452	1.073		11.3	10.0	13.5	30.0
Naphthalene	Ave	1.891	1.755		9.28	10.0	-7.2	30.0
1,2,3-Trichlorobenzene	Ave	0.8461	0.9155		10.8	10.0	8.2	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_013.d
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 28-Sep-2015 23:58:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-013
Misc. Info.: icv
Operator ID: pad Instrument ID: CHW.i
Sublist:

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:59 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: daiglep Date: 29-Sep-2015 09:26:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	97	83887	10.0	8.70	
2 Dichlorodifluoromethane	85	4.426	4.431	-0.005	99	586687	10.0	9.15	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	230247	10.0	8.91	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.806	4.806	0.000	94	559137	10.0	10.1	
5 Chloromethane	50	5.009	5.009	0.000	99	105307	10.0	8.41	
6 Butane	43	5.292	5.292	0.000	95	160947	10.0	8.82	
7 Vinyl chloride	62	5.351	5.357	-0.006	98	134011	10.0	9.11	
8 Butadiene	54	5.458	5.458	0.000	93	87656	10.0	8.68	
10 Bromomethane	94	6.373	6.373	0.000	98	164016	10.0	8.67	
9 BFB									
11 Chloroethane	64	6.683	6.678	0.005	99	89155	10.0	9.14	
12 2-Methylbutane	43	6.763	6.769	-0.006	89	154068	10.0	10.4	
13 Vinyl bromide	106	7.175	7.175	0.000	98	224981	10.0	9.68	
14 Trichlorofluoromethane	101	7.293	7.298	-0.005	98	673413	10.0	9.25	
16 Pentane	43	7.464	7.464	0.000	99	227694	10.0	10.4	
17 Ethanol	45	7.946	7.951	-0.005	99	80859	15.0	13.1	
18 Ethyl ether	59	8.090	8.090	0.000	90	120834	10.0	11.1	
19 Acrolein	56	8.588	8.582	0.006	96	45142	10.0	11.2	
20 1,1,2-Trichloro-1,2,2-trif	101	8.593	8.598	-0.005	92	448785	10.0	9.52	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	97	206525	10.0	9.89	
22 Acetone	43	8.941	8.946	-0.005	98	216876	10.0	9.60	
23 Carbon disulfide	76	9.166	9.166	0.000	98	538467	10.0	10.7	
24 Isopropyl alcohol	45	9.219	9.224	-0.005	100	155655	10.0	8.64	
25 3-Chloro-1-propene	41	9.593	9.594	-0.001	94	134754	10.0	9.20	
26 Acetonitrile	41	9.759	9.759	0.000	99	83141	10.0	10.2	
27 Methylene Chloride	49	9.931	9.931	0.000	80	150019	10.0	9.06	
28 2-Methyl-2-propanol	59	10.118	10.118	0.000	94	289517	10.0	9.10	
S 30 1,2-Dichloroethene, Total	61				0		20.0	20.2	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	95	580598	10.0	10.5	
31 trans-1,2-Dichloroethene	61	10.433	10.433	0.000	90	261258	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.621	10.615	0.006	95	101626	10.0	10.1	
33 Hexane	57	10.851	10.856	-0.005	89	246458	10.0	11.2	
34 1,1-Dichloroethane	63	11.428	11.428	0.000	99	314550	10.0	9.69	
35 Vinyl acetate	43	11.477	11.477	0.000	99	308064	10.0	9.74	
37 cis-1,2-Dichloroethene	96	12.621	12.621	0.000	82	230117	10.0	9.82	
38 2-Butanone (MEK)	72	12.659	12.659	0.000	97	96198	10.0	9.21	
39 Ethyl acetate	88	12.664	12.670	-0.006	95	19832	10.0	10.4	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	83	201872	10.0	10.0	
41 Tetrahydrofuran	42	13.108	13.114	-0.006	84	143736	10.0	10.0	
42 Chloroform	83	13.215	13.221	-0.006	95	473353	10.0	9.51	
43 Cyclohexane	84	13.515	13.509	0.006	90	288607	10.0	10.7	
44 1,1,1-Trichloroethane	97	13.531	13.536	-0.005	93	565326	10.0	9.76	
45 Carbon tetrachloride	117	13.782	13.788	-0.006	98	634198	10.0	9.95	
46 Isooctane	57	14.184	14.189	-0.005	98	772497	10.0	10.6	
47 Benzene	78	14.253	14.253	0.000	94	628992	10.0	9.96	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	294361	10.0	9.71	
49 n-Heptane	43	14.531	14.537	-0.006	81	242801	10.0	10.6	
A 51 GRO	1	14.922	(6.759-23.085)		0	86044210	10.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	933185	10.0	10.0	
52 n-Butanol	56	15.291	15.296	-0.005	84	84142	10.0	10.3	
53 Trichloroethene	95	15.478	15.484	-0.006	94	327543	10.0	10.1	
54 1,2-Dichloropropane	63	16.018	16.019	0.000	89	192631	10.0	9.56	
55 Methyl methacrylate	69	16.099	16.099	0.000	92	225614	10.0	10.5	
56 1,4-Dioxane	88	16.195	16.195	0.000	86	108581	10.0	9.81	
57 Dibromomethane	174	16.259	16.259	0.000	87	424301	10.0	9.86	
58 Dichlorobromomethane	83	16.500	16.505	-0.005	97	526790	10.0	9.56	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	162916250	10.0	3017.9	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	358788	10.0	10.9	
61 4-Methyl-2-pentanone (MIBK	43	17.623	17.629	-0.006	91	338545	10.0	10.2	
A 62 C8 Range	1	17.939	(17.889-17.989)		0	3630815	NC	NC	
64 n-Octane	43	17.934	17.939	-0.005	84	339197	10.0	11.2	
65 Toluene	92	17.955	17.960	-0.005	93	518131	10.0	10.2	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	3630815	10.0	71.4	E
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	401572	10.0	10.6	
67 1,1,2-Trichloroethane	83	18.859	18.865	-0.006	94	244453	10.0	10.0	
68 Tetrachloroethene	166	18.988	18.993	-0.005	95	636004	10.0	10.4	
69 2-Hexanone	43	19.260	19.266	-0.006	99	335776	10.0	9.88	
71 Chlorodibromomethane	129	19.619	19.619	0.000	97	676464	10.0	9.72	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	530344	10.0	10.2	
S 73 Xylenes, Total	106				0		30.0	32.4	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	878633	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	815397	10.0	9.95	
76 Ethylbenzene	91	20.897	20.897	0.000	97	1205771	10.0	10.6	
77 n-Nonane	57	20.940	20.940	0.000	79	400287	10.0	10.7	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	974773	20.0	21.2	
79 o-Xylene	106	21.802	21.802	0.000	99	504480	10.0	11.1	
80 Styrene	104	21.839	21.839	0.000	96	785368	10.0	11.1	
$ 83 4-Bromofluorobenzene	95	22.203	22.197	0.006	26	1031	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	754416	10.0	10.0	
82 Isopropylbenzene	105	22.347	22.353	-0.006	95	1517459	10.0	10.9	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	715396	10.0	10.2	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	1804253	10.0	10.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	94	541225	10.0	9.76	
87 n-Decane	57	23.075	23.075	0.000	92	595246	10.0	10.4	
88 4-Ethyltoluene	105	23.139	23.139	0.000	97	1685849	10.0	11.0	
89 2-Chlorotoluene	91	23.176	23.176	0.000	94	1313971	10.0	10.2	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	1417377	10.0	10.7	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	92	776947	10.0	11.8	
92 tert-Butylbenzene	119	23.722	23.722	0.000	96	1430687	10.0	10.9	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1423703	10.0	10.8	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	2005980	10.0	10.9	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	1826639	10.0	11.3	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	94	1145952	10.0	10.5	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	1147070	10.0	10.7	
98 Benzyl chloride	91	24.706	24.706	0.000	100	1151545	10.0	10.1	
99 Undecane	57	24.888	24.888	0.000	88	644238	10.0	10.6	
100 n-Butylbenzene	91	24.920	24.920	0.000	97	1451431	10.0	10.5	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1111017	10.0	10.6	
102 Dodecane	57	26.777	26.777	0.000	96	606859	10.0	11.0	
103 1,2,4-Trichlorobenzene	180	28.136	28.130	0.006	93	925078	10.0	10.6	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	97	942519	10.0	11.3	
105 Naphthalene	128	28.767	28.767	0.000	99	1542022	10.0	9.28	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	96	804254	10.0	10.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

ATTO15LCSW_00522	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

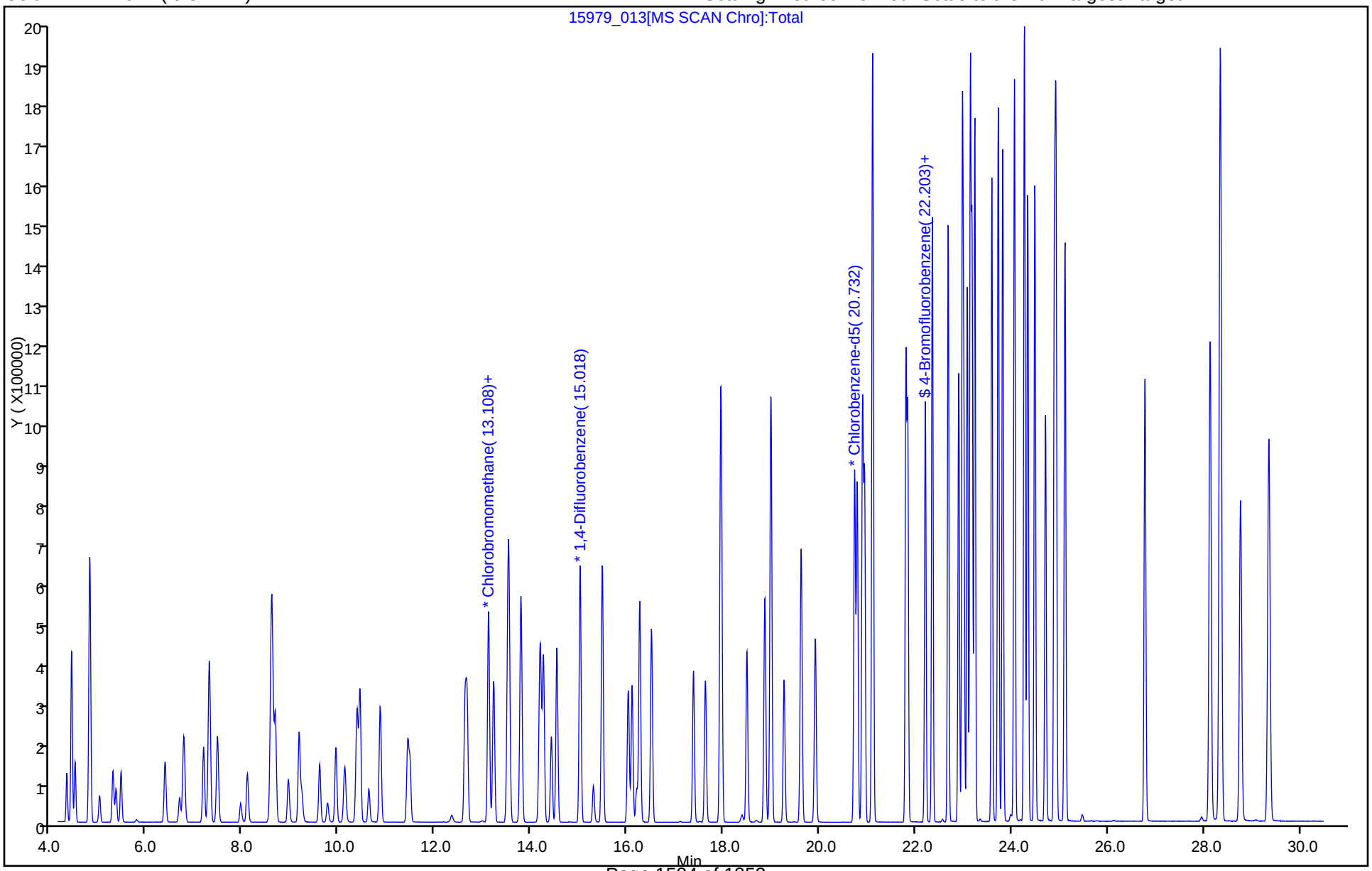
Report Date: 29-Sep-2015 12:10:04 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_013.d

Injection Date:	28-Sep-2015 23:58:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-94728/2 Calibration Date: 09/29/2015 11:21

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 15991_002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4778	0.4898		10.2	10.0	2.5	30.0
Dichlorodifluoromethane	Ave	3.176	3.309		10.4	10.0	4.2	30.0
Freon 22	Ave	1.280	1.310		10.2	10.0	2.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.736	2.810		10.3	10.0	2.7	30.0
Chloromethane	Ave	0.6203	0.6205		10.0	10.0	0.0	30.0
n-Butane	Ave	0.9037	0.8995		9.95	10.0	-0.5	30.0
Vinyl chloride	Ave	0.7285	0.7529		10.3	10.0	3.3	30.0
1,3-Butadiene	Ave	0.5005	0.5061		10.1	10.0	1.1	30.0
Bromomethane	Ave	0.9366	0.8917		9.52	10.0	-4.8	30.0
Chloroethane	Ave	0.4834	0.4931		10.2	10.0	2.0	30.0
Isopentane	Ave	0.7339	0.7788		10.6	10.0	6.1	30.0
Bromoethene(Vinyl Bromide)	Ave	1.152	1.238		10.7	10.0	7.4	30.0
Trichlorofluoromethane	Ave	3.605	3.698		10.3	10.0	2.6	30.0
n-Pentane	Ave	1.080	1.143		10.6	10.0	5.8	30.0
Ethanol	Ave	0.3056	0.3149		15.5	15.0	3.0	30.0
Ethyl ether	Ave	0.5405	0.5876		10.9	10.0	8.7	30.0
Acrolein	Ave	0.1991	0.2058		10.3	10.0	3.4	30.0
Freon TF	Ave	2.334	2.384		10.2	10.0	2.1	30.0
1,1-Dichloroethene	Ave	1.035	1.124		10.9	10.0	8.6	30.0
Acetone	Ave	1.119	1.172		10.5	10.0	4.7	30.0
Carbon disulfide	Ave	2.491	2.530		10.2	10.0	1.6	30.0
Isopropyl alcohol	Ave	0.8922	0.9249		10.4	10.0	3.7	30.0
3-Chloropropene	Ave	0.7255	0.8028		11.1	10.0	10.7	30.0
Acetonitrile	Ave	0.4045	0.4156		10.3	10.0	2.7	30.0
Methylene Chloride	Ave	0.8207	0.8131		9.91	10.0	-0.9	30.0
tert-Butyl alcohol	Ave	1.577	1.625		10.3	10.0	3.1	30.0
Methyl tert-butyl ether	Ave	2.745	3.131		11.4	10.0	14.1	30.0
trans-1,2-Dichloroethene	Ave	1.241	1.328		10.7	10.0	7.0	30.0
Acrylonitrile	Ave	0.4996	0.5160		10.3	10.0	3.3	30.0
n-Hexane	Ave	1.089	1.238		11.4	10.0	13.7	30.0
1,1-Dichloroethane	Ave	1.608	1.681		10.5	10.0	4.6	30.0
Vinyl acetate	Ave	1.567	1.616		10.3	10.0	3.1	30.0
cis-1,2-Dichloroethene	Ave	1.161	1.257		10.8	10.0	8.3	30.0
Methyl Ethyl Ketone	Ave	0.5174	0.5150		9.95	10.0	-0.5	30.0
Ethyl acetate	Ave	0.0948	0.0984		10.4	10.0	3.8	30.0
Tetrahydrofuran	Ave	0.1540	0.1604		10.4	10.0	4.1	30.0
Chloroform	Ave	2.465	2.516		10.2	10.0	2.1	30.0
Cyclohexane	Ave	0.2896	0.3315		11.4	10.0	14.5	30.0
1,1,1-Trichloroethane	Ave	0.6207	0.6559		10.6	10.0	5.7	30.0
Carbon tetrachloride	Ave	0.6831	0.6686		9.79	10.0	-2.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-94728/2 Calibration Date: 09/29/2015 11:21

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 15991_002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7845	0.9135		11.6	10.0	16.4	30.0
Benzene	Ave	0.6769	0.7220		10.7	10.0	6.7	30.0
1,2-Dichloroethane	Ave	0.3249	0.3410		10.5	10.0	4.9	30.0
n-Heptane	Ave	0.2444	0.2852		11.7	10.0	16.7	30.0
n-Butanol	Ave	0.0874	0.0879		10.1	10.0	0.6	30.0
Trichloroethene	Ave	0.3474	0.3779		10.9	10.0	8.8	30.0
1,2-Dichloropropane	Ave	0.2160	0.2309		10.7	10.0	6.9	30.0
Methyl methacrylate	Ave	0.2304	0.2517		10.9	10.0	9.3	30.0
1,4-Dioxane	Ave	0.1186	0.1246		10.5	10.0	5.0	30.0
Dibromomethane	Ave	0.4611	0.4887		10.6	10.0	6.0	30.0
Bromodichloromethane	Ave	0.5903	0.6183		10.5	10.0	4.7	30.0
cis-1,3-Dichloropropene	Ave	0.3538	0.4108		11.6	10.0	16.1	30.0
methyl isobutyl ketone	Ave	0.3557	0.3955		11.1	10.0	11.2	30.0
n-Octane	Ave	0.3247	0.3903		12.0	10.0	20.2	30.0
Toluene	Ave	0.5785	0.6252		10.8	10.0	8.1	30.0
trans-1,3-Dichloropropene	Ave	0.4055	0.4589		11.3	10.0	13.2	30.0
1,1,2-Trichloroethane	Ave	0.2770	0.2916		10.5	10.0	5.3	30.0
Tetrachloroethene	Ave	0.6961	0.7740		11.1	10.0	11.2	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3868	0.4134		10.7	10.0	6.9	30.0
Dibromochloromethane	Ave	0.7919	0.8497		10.7	10.0	7.3	30.0
1,2-Dibromoethane	Ave	0.5911	0.6412		10.8	10.0	8.5	30.0
Chlorobenzene	Ave	0.9328	0.9835		10.5	10.0	5.4	30.0
Ethylbenzene	Ave	1.294	1.452		11.2	10.0	12.3	30.0
n-Nonane	Ave	0.4245	0.4864		11.5	10.0	14.6	30.0
m,p-Xylene	Ave	0.5226	0.5926		22.7	20.0	13.4	30.0
Xylene, o-	Ave	0.5153	0.6170		12.0	10.0	19.7	30.0
Styrene	Ave	0.8077	0.9590		11.9	10.0	18.7	30.0
Bromoform	Ave	0.8591	0.9390		10.9	10.0	9.3	30.0
Cumene	Ave	1.578	1.867		11.8	10.0	18.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7984	0.8492		10.6	10.0	6.4	30.0
n-Propylbenzene	Ave	1.900	2.215		11.7	10.0	16.6	30.0
1,2,3-Trichloropropane	Ave	0.6309	0.6693		10.6	10.0	6.1	30.0
n-Decane	Ave	0.6528	0.7312		11.2	10.0	12.0	30.0
4-Ethyltoluene	Ave	1.745	2.009		11.5	10.0	15.1	30.0
2-Chlorotoluene	Ave	1.465	1.605		11.0	10.0	9.5	30.0
1,3,5-Trimethylbenzene	Ave	1.509	1.730		11.5	10.0	14.7	30.0
Alpha Methyl Styrene	Ave	0.7466	0.9361		12.5	10.0	25.4	30.0
tert-Butylbenzene	Ave	1.491	1.746		11.7	10.0	17.1	30.0
1,2,4-Trimethylbenzene	Ave	1.495	1.745		11.7	10.0	16.8	30.0
sec-Butylbenzene	Ave	2.092	2.456		11.7	10.0	17.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-94728/2 Calibration Date: 09/29/2015 11:21

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 15991_002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.846	2.223		12.0	10.0	20.5	30.0
1,3-Dichlorobenzene	Ave	1.238	1.383		11.2	10.0	11.7	30.0
1,4-Dichlorobenzene	Ave	1.222	1.399		11.5	10.0	14.5	30.0
Benzyl chloride	Ave	1.293	1.543		11.9	10.0	19.3	30.0
n-Undecane	Ave	0.6923	0.7837		11.3	10.0	13.2	30.0
n-Butylbenzene	Ave	1.577	1.760		11.2	10.0	11.6	30.0
1,2-Dichlorobenzene	Ave	1.194	1.335		11.2	10.0	11.9	30.0
n-Dodecane	Ave	0.6254	0.7606		12.2	10.0	21.6	30.0
1,2,4-Trichlorobenzene	Ave	0.997	1.181		11.8	10.0	18.4	30.0
Hexachlorobutadiene	Ave	0.9452	1.104		11.7	10.0	16.9	30.0
Naphthalene	Ave	1.891	2.259		11.9	10.0	19.5	30.0
1,2,3-Trichlorobenzene	Ave	0.8461	1.055		12.5	10.0	24.7	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_002.d
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Sep-2015 11:21:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-002
Misc. Info.: ccvis
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 29-Sep-2015 16:25:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.324	4.324	0.000	97	96007	10.0	10.2	
2 Dichlorodifluoromethane	85	4.426	4.426	0.000	99	648550	10.0	10.4	
3 Chlorodifluoromethane	51	4.495	4.495	0.000	95	256721	10.0	10.2	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.800	4.800	0.000	95	550854	10.0	10.3	
5 Chloromethane	50	5.009	5.009	0.000	98	121626	10.0	10.0	
6 Butane	43	5.282	5.282	0.000	96	176326	10.0	9.95	
7 Vinyl chloride	62	5.346	5.346	0.000	98	147591	10.0	10.3	
8 Butadiene	54	5.453	5.453	0.000	94	99209	10.0	10.1	
10 Bromomethane	94	6.368	6.368	0.000	99	174792	10.0	9.52	
9 BFB									
11 Chloroethane	64	6.667	6.667	0.000	99	96658	10.0	10.2	
12 2-Methylbutane	43	6.758	6.758	0.000	87	152657	10.0	10.6	
13 Vinyl bromide	106	7.175	7.175	0.000	99	242607	10.0	10.7	
14 Trichlorofluoromethane	101	7.288	7.288	0.000	98	724830	10.0	10.3	
16 Pentane	43	7.459	7.459	0.000	99	224088	10.0	10.6	
17 Ethanol	45	7.940	7.940	0.000	100	92617	15.0	15.5	
18 Ethyl ether	59	8.085	8.085	0.000	91	115175	10.0	10.9	
19 Acrolein	56	8.577	8.577	0.000	97	40336	10.0	10.3	
20 1,1,2-Trichloro-1,2,2-trif	101	8.588	8.588	0.000	92	467340	10.0	10.2	
21 1,1-Dichloroethene	96	8.663	8.663	0.000	94	220257	10.0	10.9	
22 Acetone	43	8.935	8.935	0.000	97	229642	10.0	10.5	
23 Carbon disulfide	76	9.160	9.160	0.000	98	495957	10.0	10.2	
24 Isopropyl alcohol	45	9.219	9.219	0.000	99	181309	10.0	10.4	
25 3-Chloro-1-propene	41	9.588	9.588	0.000	94	157373	10.0	11.1	
26 Acetonitrile	41	9.749	9.749	0.000	99	81463	10.0	10.3	
27 Methylene Chloride	49	9.925	9.925	0.000	80	159385	10.0	9.91	
28 2-Methyl-2-propanol	59	10.112	10.112	0.000	94	318614	10.0	10.3	
S 30 1,2-Dichloroethene, Total	61				0		20.0	21.5	
29 Methyl tert-butyl ether	73	10.369	10.369	0.000	95	613659	10.0	11.4	
31 trans-1,2-Dichloroethene	61	10.428	10.428	0.000	90	260413	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.615	10.615	0.000	96	101138	10.0	10.3	
33 Hexane	57	10.851	10.851	0.000	89	242645	10.0	11.4	
34 1,1-Dichloroethane	63	11.428	11.428	0.000	99	329502	10.0	10.5	
35 Vinyl acetate	43	11.471	11.471	0.000	99	316829	10.0	10.3	
37 cis-1,2-Dichloroethene	96	12.616	12.616	0.000	92	246338	10.0	10.8	
38 2-Butanone (MEK)	72	12.653	12.653	0.000	99	100948	10.0	9.95	
39 Ethyl acetate	88	12.664	12.664	0.000	97	19293	10.0	10.4	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	196060	10.0	10.0	
41 Tetrahydrofuran	42	13.108	13.108	0.000	83	144773	10.0	10.4	
42 Chloroform	83	13.215	13.215	0.000	95	493216	10.0	10.2	
43 Cyclohexane	84	13.509	13.509	0.000	90	299221	10.0	11.4	
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	93	591986	10.0	10.6	
45 Carbon tetrachloride	117	13.782	13.782	0.000	97	603450	10.0	9.79	
46 Isooctane	57	14.183	14.183	0.000	98	824471	10.0	11.6	
47 Benzene	78	14.253	14.253	0.000	93	651662	10.0	10.7	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	307733	10.0	10.5	
49 n-Heptane	43	14.531	14.531	0.000	82	257391	10.0	11.7	
A 51 GRO	1	14.919	(6.748-23.090)		0	90611724	10.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	902757	10.0	10.0	
52 n-Butanol	56	15.291	15.291	0.000	84	79332	10.0	10.1	
53 Trichloroethene	95	15.478	15.478	0.000	95	341100	10.0	10.9	
54 1,2-Dichloropropane	63	16.013	16.013	0.000	91	208411	10.0	10.7	
55 Methyl methacrylate	69	16.099	16.099	0.000	92	227219	10.0	10.9	
56 1,4-Dioxane	88	16.195	16.195	0.000	86	112414	10.0	10.5	
57 Dibromomethane	174	16.259	16.259	0.000	87	441102	10.0	10.6	
58 Dichlorobromomethane	83	16.500	16.500	0.000	98	558088	10.0	10.5	
A 59 TVOC as Toluene	92	16.840	(4.314-29.365)		0	171200138	10.0	3278.2	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	370808	10.0	11.6	
61 4-Methyl-2-pentanone (MIBK	43	17.623	17.623	0.000	91	357009	10.0	11.1	
A 62 C8 Range	1	17.934	(17.884-17.984)		0	3735584	NC	NC	
64 n-Octane	43	17.934	17.934	0.000	82	352283	10.0	12.0	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	3735584	10.0	76.2	E
65 Toluene	92	17.960	17.960	0.000	94	529481	10.0	10.8	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	414163	10.0	11.3	
67 1,1,2-Trichloroethane	83	18.859	18.859	0.000	94	246982	10.0	10.5	
68 Tetrachloroethene	166	18.987	18.987	0.000	95	655502	10.0	11.1	
69 2-Hexanone	43	19.260	19.260	0.000	98	350152	10.0	10.7	
71 Chlorodibromomethane	129	19.619	19.619	0.000	98	719645	10.0	10.7	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	543064	10.0	10.8	
S 73 Xylenes, Total	106				0		30.0	34.6	
* 74 Chlorobenzene-d5	117	20.731	20.731	0.000	82	847098	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	832963	10.0	10.5	
76 Ethylbenzene	91	20.897	20.897	0.000	96	1229984	10.0	11.2	
77 n-Nonane	57	20.940	20.940	0.000	79	411969	10.0	11.5	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	1003853	20.0	22.7	
79 o-Xylene	106	21.801	21.801	0.000	99	522520	10.0	12.0	
80 Styrene	104	21.839	21.839	0.000	97	812188	10.0	11.9	
$ 83 4-Bromofluorobenzene	95	22.197	22.197	0.000	26	1113	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	795271	10.0	10.9	
82 Isopropylbenzene	105	22.352	22.352	0.000	95	1581287	10.0	11.8	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	719242	10.0	10.6	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	1876362	10.0	11.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	93	566889	10.0	10.6	
87 n-Decane	57	23.080	23.080	0.000	92	619288	10.0	11.2	
88 4-Ethyltoluene	105	23.144	23.144	0.000	97	1701590	10.0	11.5	
89 2-Chlorotoluene	91	23.176	23.176	0.000	95	1358998	10.0	11.0	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	94	1465473	10.0	11.5	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	92	792843	10.0	12.5	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	1478770	10.0	11.7	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1478035	10.0	11.7	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	2079788	10.0	11.7	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	1882953	10.0	12.0	
96 1,3-Dichlorobenzene	146	24.337	24.337	0.000	94	1170973	10.0	11.2	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	1185166	10.0	11.5	
98 Benzyl chloride	91	24.706	24.706	0.000	100	1306925	10.0	11.9	
99 Undecane	57	24.888	24.888	0.000	90	663739	10.0	11.3	
100 n-Butylbenzene	91	24.920	24.920	0.000	97	1490923	10.0	11.2	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1130865	10.0	11.2	
102 Dodecane	57	26.777	26.777	0.000	96	644188	10.0	12.2	
103 1,2,4-Trichlorobenzene	180	28.135	28.135	0.000	93	1000399	10.0	11.8	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	97	935394	10.0	11.7	
105 Naphthalene	128	28.767	28.767	0.000	99	1913326	10.0	11.9	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	96	893716	10.0	12.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

ATTO15CAL4w_00494	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

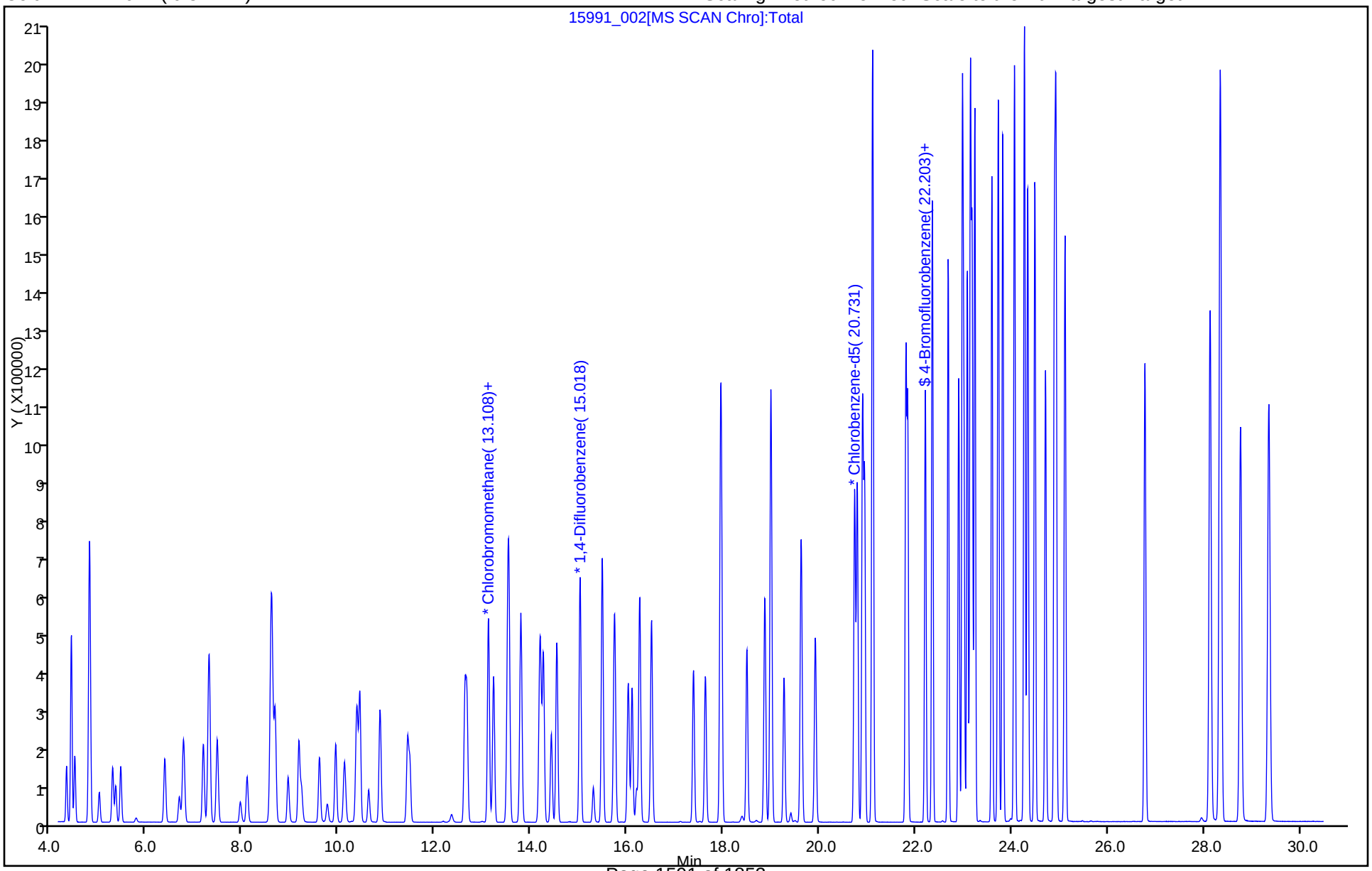
Report Date: 30-Sep-2015 14:16:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_002.d

Injection Date:	29-Sep-2015 11:21:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-94809/3 Calibration Date: 09/30/2015 12:48

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 16024_003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4778	0.5256		11.0	10.0	10.0	30.0
Dichlorodifluoromethane	Ave	3.176	3.451		10.9	10.0	8.7	30.0
Freon 22	Ave	1.280	1.374		10.7	10.0	7.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.736	2.896		10.6	10.0	5.9	30.0
Chloromethane	Ave	0.6203	0.6460		10.4	10.0	4.1	30.0
n-Butane	Ave	0.9037	0.9216		10.2	10.0	2.0	30.0
Vinyl chloride	Ave	0.7285	0.7689		10.6	10.0	5.5	30.0
1,3-Butadiene	Ave	0.5005	0.5150		10.3	10.0	2.9	30.0
Bromomethane	Ave	0.9366	0.9755		10.4	10.0	4.2	30.0
Chloroethane	Ave	0.4834	0.5160		10.7	10.0	6.7	30.0
Isopentane	Ave	0.7339	0.8246		11.2	10.0	12.4	30.0
Bromoethene(Vinyl Bromide)	Ave	1.152	1.269		11.0	10.0	10.2	30.0
Trichlorofluoromethane	Ave	3.605	3.891		10.8	10.0	7.9	30.0
n-Pentane	Ave	1.080	1.211		11.2	10.0	12.0	30.0
Ethanol	Ave	0.3056	0.3356		16.5	15.0	9.8	30.0
Ethyl ether	Ave	0.5405	0.6256		11.6	10.0	15.7	30.0
Acrolein	Ave	0.1991	0.2252		11.3	10.0	13.1	30.0
Freon TF	Ave	2.334	2.507		10.7	10.0	7.4	30.0
1,1-Dichloroethene	Ave	1.035	1.172		11.3	10.0	13.3	30.0
Acetone	Ave	1.119	1.254		11.2	10.0	12.1	30.0
Carbon disulfide	Ave	2.491	2.642		10.6	10.0	6.1	30.0
Isopropyl alcohol	Ave	0.8922	0.9692		10.9	10.0	8.6	30.0
3-Chloropropene	Ave	0.7255	0.8449		11.6	10.0	16.5	30.0
Acetonitrile	Ave	0.4045	0.4335		10.7	10.0	7.2	30.0
Methylene Chloride	Ave	0.8207	0.8606		10.5	10.0	4.9	30.0
tert-Butyl alcohol	Ave	1.577	1.704		10.8	10.0	8.0	30.0
Methyl tert-butyl ether	Ave	2.745	3.256		11.9	10.0	18.6	30.0
trans-1,2-Dichloroethene	Ave	1.241	1.398		11.3	10.0	12.6	30.0
Acrylonitrile	Ave	0.4996	0.5502		11.0	10.0	10.1	30.0
n-Hexane	Ave	1.089	1.300		11.9	10.0	19.4	30.0
1,1-Dichloroethane	Ave	1.608	1.757		10.9	10.0	9.3	30.0
Vinyl acetate	Ave	1.567	1.715		10.9	10.0	9.4	30.0
cis-1,2-Dichloroethene	Ave	1.161	1.301		11.2	10.0	12.1	30.0
Methyl Ethyl Ketone	Ave	0.5174	0.5291		10.2	10.0	2.3	30.0
Ethyl acetate	Ave	0.0948	0.1039		11.0	10.0	9.5	30.0
Tetrahydrofuran	Ave	0.1540	0.1731		11.2	10.0	12.4	30.0
Chloroform	Ave	2.465	2.648		10.7	10.0	7.4	30.0
Cyclohexane	Ave	0.2896	0.3431		11.8	10.0	18.5	30.0
1,1,1-Trichloroethane	Ave	0.6207	0.6909		11.1	10.0	11.3	30.0
Carbon tetrachloride	Ave	0.6831	0.6901		10.1	10.0	1.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-94809/3 Calibration Date: 09/30/2015 12:48

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 16024_003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7845	0.9552		12.2	10.0	21.8	30.0
Benzene	Ave	0.6769	0.7521		11.1	10.0	11.1	30.0
1,2-Dichloroethane	Ave	0.3249	0.3608		11.1	10.0	11.0	30.0
n-Heptane	Ave	0.2444	0.3016		12.3	10.0	23.4	30.0
n-Butanol	Ave	0.0874	0.0916		10.5	10.0	4.7	30.0
Trichloroethene	Ave	0.3474	0.3955		11.4	10.0	13.9	30.0
1,2-Dichloropropane	Ave	0.2160	0.2411		11.2	10.0	11.6	30.0
Methyl methacrylate	Ave	0.2304	0.2637		11.4	10.0	14.4	30.0
1,4-Dioxane	Ave	0.1186	0.1294		10.9	10.0	9.1	30.0
Dibromomethane	Ave	0.4611	0.5059		11.0	10.0	9.7	30.0
Bromodichloromethane	Ave	0.5903	0.6507		11.0	10.0	10.2	30.0
cis-1,3-Dichloropropene	Ave	0.3538	0.4278		12.1	10.0	20.9	30.0
methyl isobutyl ketone	Ave	0.3557	0.4176		11.7	10.0	17.4	30.0
n-Octane	Ave	0.3247	0.4146		12.8	10.0	27.7	30.0
Toluene	Ave	0.5785	0.6573		11.4	10.0	13.6	30.0
trans-1,3-Dichloropropene	Ave	0.4055	0.4788		11.8	10.0	18.1	30.0
1,1,2-Trichloroethane	Ave	0.2770	0.3071		11.1	10.0	10.9	30.0
Tetrachloroethene	Ave	0.6961	0.7911		11.4	10.0	13.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3868	0.4408		11.4	10.0	14.0	30.0
Dibromochloromethane	Ave	0.7919	0.8842		11.2	10.0	11.6	30.0
1,2-Dibromoethane	Ave	0.5911	0.6686		11.3	10.0	13.1	30.0
Chlorobenzene	Ave	0.9328	1.018		10.9	10.0	9.1	30.0
Ethylbenzene	Ave	1.294	1.525		11.8	10.0	17.8	30.0
n-Nonane	Ave	0.4245	0.5101		12.0	10.0	20.2	30.0
m,p-Xylene	Ave	0.5226	0.6206		23.7	20.0	18.7	30.0
Xylene, o-	Ave	0.5153	0.6363		12.3	10.0	23.5	30.0
Styrene	Ave	0.8077	0.9927		12.3	10.0	22.9	30.0
Bromoform	Ave	0.8591	0.9774		11.4	10.0	13.8	30.0
Cumene	Ave	1.578	1.932		12.2	10.0	22.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7984	0.8991		11.3	10.0	12.6	30.0
n-Propylbenzene	Ave	1.900	2.319		12.2	10.0	22.1	30.0
1,2,3-Trichloropropane	Ave	0.6309	0.6988		11.1	10.0	10.8	30.0
n-Decane	Ave	0.6528	0.7721		11.8	10.0	18.3	30.0
4-Ethyltoluene	Ave	1.745	2.098		12.0	10.0	20.2	30.0
2-Chlorotoluene	Ave	1.465	1.691		11.5	10.0	15.4	30.0
1,3,5-Trimethylbenzene	Ave	1.509	1.797		11.9	10.0	19.1	30.0
Alpha Methyl Styrene	Ave	0.7466	0.9669		12.9	10.0	29.5	30.0
tert-Butylbenzene	Ave	1.491	1.818		12.2	10.0	21.9	30.0
1,2,4-Trimethylbenzene	Ave	1.495	1.821		12.2	10.0	21.9	30.0
sec-Butylbenzene	Ave	2.092	2.571		12.3	10.0	22.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-94809/3 Calibration Date: 09/30/2015 12:48

Instrument ID: CHW.i Calib Start Date: 09/28/2015 15:53

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/28/2015 21:32

Lab File ID: 16024_003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.846	2.322		12.6	10.0	25.8	30.0
1,3-Dichlorobenzene	Ave	1.238	1.434		11.6	10.0	15.8	30.0
1,4-Dichlorobenzene	Ave	1.222	1.442		11.8	10.0	18.0	30.0
Benzyl chloride	Ave	1.293	1.616		12.5	10.0	25.0	30.0
n-Undecane	Ave	0.6923	0.8405		12.1	10.0	21.4	30.0
n-Butylbenzene	Ave	1.577	1.884		11.9	10.0	19.5	30.0
1,2-Dichlorobenzene	Ave	1.194	1.394		11.7	10.0	16.8	30.0
n-Dodecane	Ave	0.6254	0.8456		13.5	10.0	35.2*	30.0
1,2,4-Trichlorobenzene	Ave	0.997	1.229		12.3	10.0	23.2	30.0
Hexachlorobutadiene	Ave	0.9452	1.175		12.4	10.0	24.3	30.0
Naphthalene	Ave	1.891	2.388		12.6	10.0	26.3	30.0
1,2,3-Trichlorobenzene	Ave	0.8461	1.121		13.2	10.0	32.5*	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_003.d
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Sep-2015 12:48:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016024-003
Misc. Info.: lcs
Operator ID: pad Instrument ID: CHW.i
Sublist: chrom-TO15_MasterMethod_(v1)*sub1

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 30-Sep-2015 13:41:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	97	96551	10.0	11.0	
2 Dichlorodifluoromethane	85	4.431	4.431	0.000	99	633911	10.0	10.9	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	252436	10.0	10.7	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.806	4.806	0.000	92	532066	10.0	10.6	
5 Chloromethane	50	5.009	5.009	0.000	100	118678	10.0	10.4	
6 Butane	43	5.292	5.292	0.000	95	169303	10.0	10.2	
7 Vinyl chloride	62	5.357	5.357	0.000	98	141252	10.0	10.6	
8 Butadiene	54	5.458	5.458	0.000	93	94617	10.0	10.3	
9 BFB									
10 Bromomethane	94	6.373	6.373	0.000	99	179215	10.0	10.4	
11 Chloroethane	64	6.678	6.678	0.000	99	94793	10.0	10.7	
12 2-Methylbutane	43	6.764	6.764	0.000	86	151484	10.0	11.2	
13 Vinyl bromide	106	7.181	7.181	0.000	98	233101	10.0	11.0	
14 Trichlorofluoromethane	101	7.299	7.299	0.000	98	714754	10.0	10.8	
16 Pentane	43	7.464	7.464	0.000	99	222384	10.0	11.2	
17 Ethanol	45	7.946	7.946	0.000	99	92524	15.0	16.5	
18 Ethyl ether	59	8.090	8.090	0.000	92	114927	10.0	11.6	
19 Acrolein	56	8.583	8.583	0.000	96	41362	10.0	11.3	
20 1,1,2-Trichloro-1,2,2-trif	101	8.599	8.599	0.000	93	460474	10.0	10.7	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	94	215367	10.0	11.3	
22 Acetone	43	8.941	8.941	0.000	97	230312	10.0	11.2	
23 Carbon disulfide	76	9.171	9.171	0.000	98	485440	10.0	10.6	
24 Isopropyl alcohol	45	9.219	9.219	0.000	100	178044	10.0	10.9	
25 3-Chloro-1-propene	41	9.588	9.588	0.000	94	155207	10.0	11.6	
26 Acetonitrile	41	9.759	9.759	0.000	99	79630	10.0	10.7	
27 Methylene Chloride	49	9.931	9.931	0.000	81	158104	10.0	10.5	
28 2-Methyl-2-propanol	59	10.113	10.113	0.000	94	312981	10.0	10.8	
S 30 1,2-Dichloroethene, Total	61				0		20.0	22.5	
29 Methyl tert-butyl ether	73	10.375	10.375	0.000	95	598207	10.0	11.9	
31 trans-1,2-Dichloroethene	61	10.434	10.434	0.000	91	256809	10.0	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Acrylonitrile	53	10.615	10.615	0.000	94	101078	10.0	11.0	
33 Hexane	57	10.856	10.856	0.000	89	238831	10.0	11.9	
34 1,1-Dichloroethane	63	11.429	11.429	0.000	99	322774	10.0	10.9	
35 Vinyl acetate	43	11.471	11.471	0.000	99	315149	10.0	10.9	
37 cis-1,2-Dichloroethene	96	12.616	12.616	0.000	86	239000	10.0	11.2	
38 2-Butanone (MEK)	72	12.654	12.654	0.000	97	97199	10.0	10.2	
39 Ethyl acetate	88	12.659	12.659	0.000	95	19086	10.0	11.0	
41 Tetrahydrofuran	42	13.108	13.108	0.000	82	146375	10.0	11.2	
* 40 Chlorobromomethane	128	13.114	13.114	0.000	95	183746	10.0	10.0	
42 Chloroform	83	13.215	13.215	0.000	95	486539	10.0	10.7	
43 Cyclohexane	84	13.510	13.510	0.000	90	290122	10.0	11.8	
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	93	584165	10.0	11.1	
45 Carbon tetrachloride	117	13.782	13.782	0.000	98	583465	10.0	10.1	
46 Isooctane	57	14.184	14.184	0.000	98	807645	10.0	12.2	
47 Benzene	78	14.253	14.253	0.000	94	635891	10.0	11.1	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	305082	10.0	11.1	
49 n-Heptane	43	14.531	14.531	0.000	82	255014	10.0	12.3	
A 51 GRO	1	14.919	(6.754-23.085)		0	88964619	10.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	845697	10.0	10.0	
52 n-Butanol	56	15.291	15.291	0.000	85	77406	10.0	10.5	
53 Trichloroethene	95	15.478	15.478	0.000	95	334415	10.0	11.4	
54 1,2-Dichloropropane	63	16.024	16.024	0.000	90	203884	10.0	11.2	
55 Methyl methacrylate	69	16.099	16.099	0.000	92	222962	10.0	11.4	
56 1,4-Dioxane	88	16.190	16.190	0.000	87	109443	10.0	10.9	
57 Dibromomethane	174	16.259	16.259	0.000	87	427711	10.0	11.0	
58 Dichlorobromomethane	83	16.500	16.500	0.000	98	550163	10.0	11.0	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	168775475	10.0	3449.8	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	361675	10.0	12.1	
61 4-Methyl-2-pentanone (MIBK	43	17.624	17.624	0.000	92	353078	10.0	11.7	
A 62 C8 Range	1	17.934	(17.884-17.984)		0	3690360	NC	NC	
64 n-Octane	43	17.934	17.934	0.000	83	350514	10.0	12.8	
A 63 Toluene Range	92	17.955	(17.915-17.995)		0	3690360	10.0	80.5	E
65 Toluene	92	17.955	17.955	0.000	93	520632	10.0	11.4	
66 trans-1,3-Dichloropropene	75	18.490	18.490	0.000	94	404848	10.0	11.8	
67 1,1,2-Trichloroethane	83	18.865	18.865	0.000	94	243248	10.0	11.1	
68 Tetrachloroethene	166	18.988	18.988	0.000	96	626604	10.0	11.4	
69 2-Hexanone	43	19.261	19.261	0.000	98	349117	10.0	11.4	
71 Chlorodibromomethane	129	19.619	19.619	0.000	98	700303	10.0	11.2	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	529519	10.0	11.3	
S 73 Xylenes, Total	106				0		30.0	36.1	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	792184	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	806361	10.0	10.9	
76 Ethylbenzene	91	20.898	20.898	0.000	97	1207534	10.0	11.8	
77 n-Nonane	57	20.940	20.940	0.000	79	403995	10.0	12.0	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	983042	20.0	23.7	
79 o-Xylene	106	21.796	21.796	0.000	99	504004	10.0	12.3	
80 Styrene	104	21.839	21.839	0.000	96	786208	10.0	12.3	
$ 83 4-Bromofluorobenzene	95	22.192	22.192	0.000	26	1146	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	774112	10.0	11.4	
82 Isopropylbenzene	105	22.347	22.347	0.000	95	1530120	10.0	12.2	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	712133	10.0	11.3	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	1836976	10.0	12.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	93	553455	10.0	11.1	
87 n-Decane	57	23.075	23.075	0.000	92	611550	10.0	11.8	
88 4-Ethyltoluene	105	23.139	23.139	0.000	97	1661719	10.0	12.0	
89 2-Chlorotoluene	91	23.177	23.177	0.000	94	1339172	10.0	11.5	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	93	1423568	10.0	11.9	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	92	765836	10.0	12.9	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	1439732	10.0	12.2	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1442587	10.0	12.2	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	2036631	10.0	12.3	
95 4-Isopropyltoluene	119	24.262	24.262	0.000	97	1839409	10.0	12.6	
96 1,3-Dichlorobenzene	146	24.332	24.332	0.000	95	1136092	10.0	11.6	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	1141771	10.0	11.8	
98 Benzyl chloride	91	24.707	24.707	0.000	100	1280021	10.0	12.5	
99 Undecane	57	24.888	24.888	0.000	89	665715	10.0	12.1	
100 n-Butylbenzene	91	24.921	24.921	0.000	97	1491900	10.0	11.9	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1103822	10.0	11.7	
102 Dodecane	57	26.777	26.777	0.000	96	669752	10.0	13.5	
103 1,2,4-Trichlorobenzene	180	28.130	28.130	0.000	94	973287	10.0	12.3	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	97	930417	10.0	12.4	
105 Naphthalene	128	28.767	28.767	0.000	99	1890983	10.0	12.6	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	95	887693	10.0	13.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

ATTO15CAL4w_00494	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

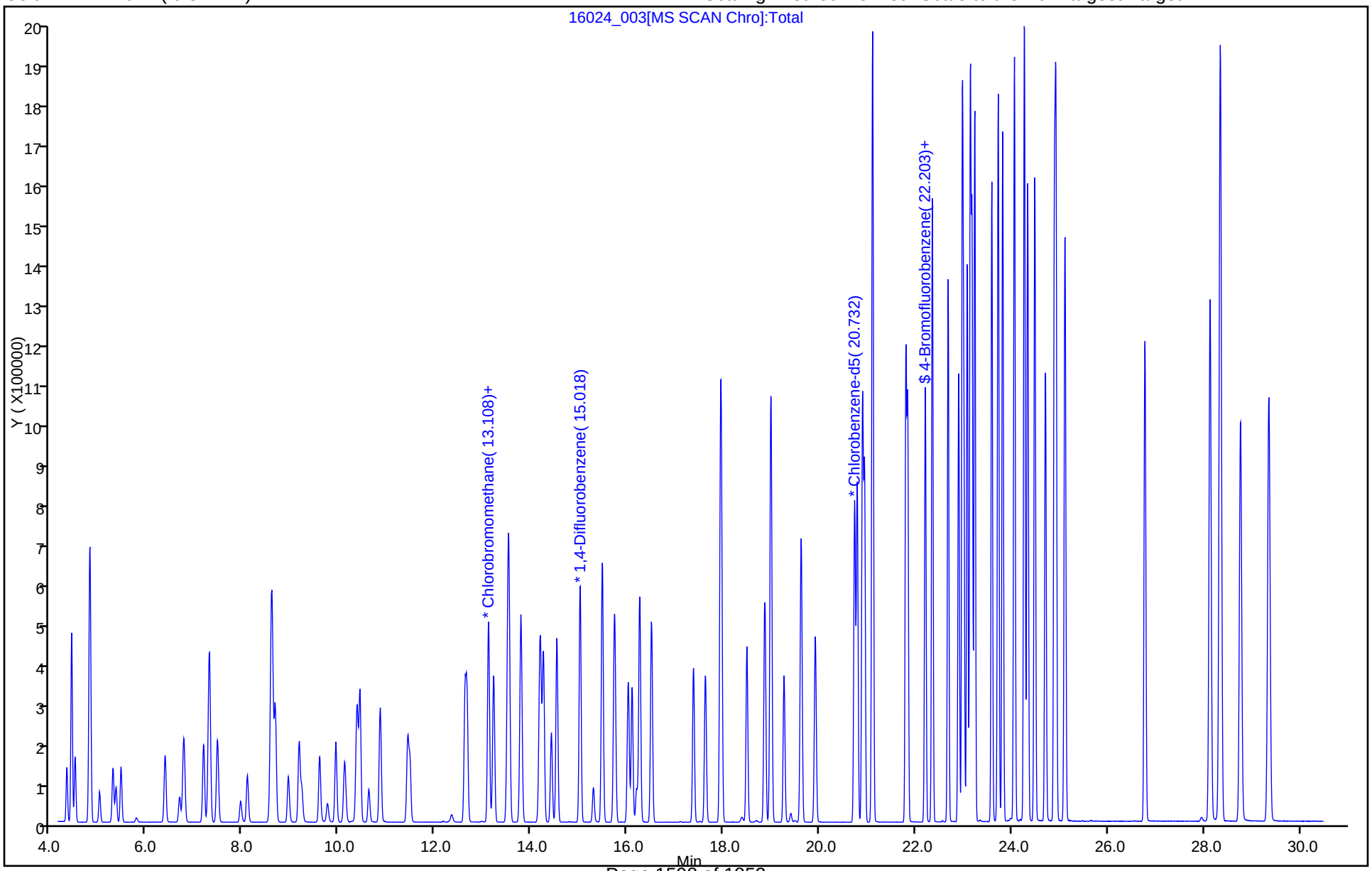
Report Date: 01-Oct-2015 12:53:16 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_003.d

Injection Date:	30-Sep-2015 12:48:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	ccvis			Worklist Smp#:	3
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: ICV 200-92823/15 Calibration Date: 08/18/2015 03:10

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15313_15.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4154	0.3798		9.14	10.0	-8.6	30.0
Dichlorodifluoromethane	Ave	1.945	1.851		9.51	10.0	-4.9	30.0
Freon 22	Ave	0.9407	0.8859		9.42	10.0	-5.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.978	2.134		10.8	10.0	7.9	30.0
Chloromethane	Ave	0.5474	0.4991		9.12	10.0	-8.8	30.0
n-Butane	Ave	0.8991	0.8056		8.96	10.0	-10.4	30.0
Vinyl chloride	Ave	0.6903	0.6589		9.54	10.0	-4.6	30.0
1,3-Butadiene	Ave	0.4958	0.4498		9.07	10.0	-9.3	30.0
Bromomethane	Ave	0.7816	0.7548		9.65	10.0	-3.4	30.0
Chloroethane	Ave	0.3486	0.3253		9.33	10.0	-6.7	30.0
Isopentane	Ave	0.6436	0.6084		9.45	10.0	-5.5	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9022	0.8684		9.62	10.0	-3.7	30.0
Trichlorofluoromethane	Ave	2.145	2.029		9.46	10.0	-5.4	30.0
n-Pentane	Ave	1.024	1.032		10.1	10.0	0.8	30.0
Ethanol	Ave	0.2146	0.2115		14.8	15.0	-1.5	30.0
Ethyl ether	Ave	0.4504	0.4932		10.9	10.0	9.5	30.0
Acrolein	Ave	0.1694	0.2041		12.0	10.0	20.5	30.0
Freon TF	Ave	1.717	1.670		9.72	10.0	-2.8	30.0
1,1-Dichloroethene	Ave	0.8028	0.7759		9.66	10.0	-3.4	30.0
Acetone	Ave	0.8752	0.8520		9.73	10.0	-2.7	30.0
Carbon disulfide	Ave	2.040	2.267		11.1	10.0	11.1	30.0
Isopropyl alcohol	Ave	0.8295	0.6747		8.13	10.0	-18.7	30.0
3-Chloropropene	Ave	0.6775	0.5474		8.08	10.0	-19.2	30.0
Acetonitrile	Ave	0.4149	0.4102		9.88	10.0	-1.1	30.0
Methylene Chloride	Ave	0.7371	0.6617		8.98	10.0	-10.2	30.0
tert-Butyl alcohol	Ave	1.330	1.177		8.85	10.0	-11.5	30.0
Methyl tert-butyl ether	Ave	2.220	2.130		9.59	10.0	-4.1	30.0
trans-1,2-Dichloroethene	Ave	1.031	1.047		10.2	10.0	1.6	30.0
Acrylonitrile	Ave	0.4784	0.4692		9.81	10.0	-1.9	30.0
n-Hexane	Ave	1.095	1.081		9.87	10.0	-1.2	30.0
1,1-Dichloroethane	Ave	1.392	1.328		9.54	10.0	-4.6	30.0
Vinyl acetate	Ave	1.632	1.567		9.60	10.0	-4.0	30.0
cis-1,2-Dichloroethene	Ave	1.013	0.9678		9.55	10.0	-4.5	30.0
Methyl Ethyl Ketone	Ave	0.4645	0.4282		9.22	10.0	-7.8	30.0
Ethyl acetate	Ave	0.0735	0.0803		10.9	10.0	9.2	30.0
Tetrahydrofuran	Ave	0.1425	0.1363		9.57	10.0	-4.3	30.0
Chloroform	Ave	1.858	1.788		9.62	10.0	-3.8	30.0
Cyclohexane	Ave	0.2503	0.2425		9.69	10.0	-3.1	30.0
1,1,1-Trichloroethane	Ave	0.3646	0.3519		9.65	10.0	-3.5	30.0
Carbon tetrachloride	Ave	0.3798	0.3903		10.3	10.0	2.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: ICV 200-92823/15 Calibration Date: 08/18/2015 03:10

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15313_15.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.8365	0.7874		9.41	10.0	-5.9	30.0
Benzene	Ave	0.5838	0.5577		9.55	10.0	-4.5	30.0
1,2-Dichloroethane	Ave	0.2049	0.1946		9.50	10.0	-5.0	30.0
n-Heptane	Ave	0.2817	0.2584		9.17	10.0	-8.3	30.0
n-Butanol	Ave	0.0971	0.0898		9.25	10.0	-7.5	30.0
Trichloroethene	Ave	0.2942	0.2687		9.13	10.0	-8.7	30.0
1,2-Dichloropropane	Ave	0.2219	0.2093		9.43	10.0	-5.6	30.0
Methyl methacrylate	Ave	0.2211	0.2177		9.84	10.0	-1.5	30.0
1,4-Dioxane	Ave	0.1097	0.0961		8.76	10.0	-12.4	30.0
Dibromomethane	Ave	0.3538	0.3195		9.03	10.0	-9.7	30.0
Bromodichloromethane	Ave	0.4167	0.4064		9.75	10.0	-2.5	30.0
cis-1,3-Dichloropropene	Ave	0.3482	0.3395		9.75	10.0	-2.5	30.0
methyl isobutyl ketone	Ave	0.3817	0.3573		9.36	10.0	-6.4	30.0
Toluene	Ave	0.5092	0.4937		9.69	10.0	-3.0	30.0
n-Octane	Ave	0.4337	0.3997		9.21	10.0	-7.8	30.0
trans-1,3-Dichloropropene	Ave	0.3631	0.3291		9.06	10.0	-9.4	30.0
1,1,2-Trichloroethane	Ave	0.2376	0.2320		9.76	10.0	-2.4	30.0
Tetrachloroethene	Ave	0.5071	0.4945		9.75	10.0	-2.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3781	0.3671		9.71	10.0	-2.9	30.0
Dibromochloromethane	Ave	0.4912	0.5066		10.3	10.0	3.1	30.0
1,2-Dibromoethane	Ave	0.4673	0.4565		9.77	10.0	-2.3	30.0
Chlorobenzene	Ave	0.7250	0.7085		9.77	10.0	-2.3	30.0
Ethylbenzene	Ave	1.098	1.066		9.71	10.0	-2.9	30.0
n-Nonane	Ave	0.4713	0.4474		9.49	10.0	-5.1	30.0
m,p-Xylene	Ave	0.4629	0.4498		19.4	20.0	-2.8	30.0
Xylene, o-	Ave	0.4575	0.4368		9.54	10.0	-4.5	30.0
Styrene	Ave	0.7141	0.6872		9.62	10.0	-3.8	30.0
Bromoform	Ave	0.4591	0.5348		11.6	10.0	16.5	30.0
Cumene	Ave	1.305	1.256		9.62	10.0	-3.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6141	0.6153		10.0	10.0	0.2	30.0
n-Propylbenzene	Ave	1.521	1.455		9.56	10.0	-4.4	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4416		9.43	10.0	-5.7	30.0
n-Decane	Ave	0.5960	0.5725		9.60	10.0	-3.9	30.0
4-Ethyltoluene	Ave	1.319	1.301		9.86	10.0	-1.3	30.0
2-Chlorotoluene	Ave	1.032	0.9857		9.55	10.0	-4.5	30.0
1,3,5-Trimethylbenzene	Ave	1.089	1.056		9.70	10.0	-3.0	30.0
Alpha Methyl Styrene	Ave	0.5739	0.5831		10.2	10.0	1.6	30.0
tert-Butylbenzene	Ave	1.085	1.049		9.66	10.0	-3.3	30.0
1,2,4-Trimethylbenzene	Ave	1.091	1.055		9.66	10.0	-3.3	30.0
sec-Butylbenzene	Ave	1.587	1.538		9.69	10.0	-3.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: ICV 200-92823/15 Calibration Date: 08/18/2015 03:10

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15313_15.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.397	1.359		9.72	10.0	-2.7	30.0
1,3-Dichlorobenzene	Ave	0.8393	0.8052		9.59	10.0	-4.1	30.0
1,4-Dichlorobenzene	Ave	0.8495	0.8000		9.42	10.0	-5.8	30.0
Benzyl chloride	Ave	0.8886	0.7955		8.95	10.0	-10.5	30.0
n-Butylbenzene	Ave	1.176	1.136		9.66	10.0	-3.4	30.0
n-Undecane	Ave	0.6119	0.6147		10.0	10.0	0.5	30.0
1,2-Dichlorobenzene	Ave	0.7956	0.7670		9.64	10.0	-3.6	30.0
n-Dodecane	Ave	0.5587	0.6001		10.7	10.0	7.4	30.0
1,2,4-Trichlorobenzene	Ave	0.7342	0.6152		8.38	10.0	-16.2	30.0
Hexachlorobutadiene	Ave	0.6833	0.6492		9.50	10.0	-5.0	30.0
Naphthalene	Ave	1.406	1.188		8.45	10.0	-15.5	30.0
1,2,3-Trichlorobenzene	Ave	0.6787	0.6036		8.89	10.0	-11.1	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_15.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 18-Aug-2015 03:10:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-015
Misc. Info.: lcs
Operator ID: pad Instrument ID: CHX.i
Sublist:

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:36 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 10:02:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.092	3.092	0.000	99	71637	10.0	9.14	
2 Dichlorodifluoromethane	85	3.161	3.161	0.000	99	349026	10.0	9.51	
3 Chlorodifluoromethane	51	3.210	3.209	0.001	97	167072	10.0	9.42	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.424	3.423	0.001	94	402537	10.0	10.8	
5 Chloromethane	50	3.563	3.563	0.000	99	94123	10.0	9.12	
6 Butane	43	3.755	3.755	0.000	98	151941	10.0	8.96	
7 Vinyl chloride	62	3.803	3.803	0.000	98	124263	10.0	9.54	
8 Butadiene	54	3.878	3.878	0.000	91	84838	10.0	9.07	
9 Bromomethane	94	4.547	4.547	0.000	99	142347	10.0	9.65	
10 Chloroethane	64	4.777	4.777	0.000	99	61343	10.0	9.33	
11 2-Methylbutane	43	4.841	4.841	0.000	90	114732	10.0	9.45	
12 Vinyl bromide	106	5.157	5.157	0.000	99	163776	10.0	9.62	
13 Trichlorofluoromethane	101	5.248	5.248	0.000	98	382728	10.0	9.46	
14 Pentane	43	5.382	5.376	0.006	96	194577	10.0	10.1	
15 Ethanol	45	5.804	5.804	0.000	98	59852	15.0	14.8	
16 Ethyl ether	59	5.895	5.895	0.000	95	93010	10.0	10.9	
$ 19 BFB									
17 Acrolein	56	6.280	6.280	0.000	95	38488	10.0	12.0	
18 1,1,2-Trichloro-1,2,2-trif	101	6.291	6.286	0.005	95	314928	10.0	9.72	
20 1,1-Dichloroethene	96	6.344	6.344	0.000	93	146329	10.0	9.66	
21 Acetone	43	6.585	6.585	0.000	89	160692	10.0	9.73	
22 Carbon disulfide	76	6.740	6.740	0.000	98	427607	10.0	11.1	
23 Isopropyl alcohol	45	6.863	6.863	0.000	99	127251	10.0	8.13	
24 3-Chloro-1-propene	41	7.115	7.115	0.000	91	103241	10.0	8.08	
25 Acetonitrile	41	7.265	7.265	0.000	99	77363	10.0	9.88	
26 Methylene Chloride	49	7.409	7.409	0.000	83	124788	10.0	8.98	
28 2-Methyl-2-propanol	59	7.634	7.639	-0.005	99	222003	10.0	8.85	
29 Methyl tert-butyl ether	73	7.805	7.800	0.005	95	401647	10.0	9.59	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	89	197542	10.0	10.2	
31 Acrylonitrile	53	8.003	8.003	0.000	95	88480	10.0	9.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Hexane	57	8.201	8.201	0.000	88	203900	10.0	9.87	
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	250395	10.0	9.54	
34 Vinyl acetate	43	8.773	8.773	0.000	99	295476	10.0	9.60	
35 cis-1,2-Dichloroethene	96	9.816	9.816	0.000	94	182527	10.0	9.55	
36 2-Butanone (MEK)	72	9.859	9.865	-0.006	100	80752	10.0	9.22	
37 Ethyl acetate	88	9.891	9.897	-0.006	99	15134	10.0	10.9	
S 38 1,2-Dichloroethene, Total	61				0		20.0	19.7	
* 40 Chlorobromomethane	128	10.287	10.282	0.005	78	188633	10.0	10.0	
39 Tetrahydrofuran	42	10.287	10.287	0.000	87	138795	10.0	9.57	
41 Chloroform	83	10.410	10.410	0.000	99	337207	10.0	9.62	
42 Cyclohexane	84	10.656	10.656	0.000	84	246939	10.0	9.69	
43 1,1,1-Trichloroethane	97	10.688	10.688	0.000	97	358283	10.0	9.65	
44 Carbon tetrachloride	117	10.935	10.934	0.001	96	397377	10.0	10.3	
45 Isooctane	57	11.363	11.362	0.000	99	801659	10.0	9.41	
46 Benzene	78	11.416	11.416	0.000	93	567789	10.0	9.55	
47 1,2-Dichloroethane	62	11.609	11.609	0.000	97	198148	10.0	9.50	
48 n-Heptane	43	11.748	11.753	-0.005	86	263129	10.0	9.17	
* 50 1,4-Difluorobenzene	114	12.267	12.267	0.000	92	1018364	10.0	10.0	
51 n-Butanol	56	12.668	12.668	0.000	83	91476	10.0	9.25	
52 Trichloroethene	95	12.743	12.743	0.000	93	273605	10.0	9.13	
53 1,2-Dichloropropane	63	13.337	13.336	0.001	95	213147	10.0	9.43	
54 Methyl methacrylate	69	13.486	13.492	-0.006	82	221633	10.0	9.84	
55 1,4-Dioxane	88	13.561	13.567	-0.006	87	97822	10.0	8.76	
56 Dibromomethane	174	13.609	13.609	0.000	89	325322	10.0	9.03	
57 Dichlorobromomethane	83	13.909	13.909	0.000	98	413825	10.0	9.75	
58 cis-1,3-Dichloropropene	75	14.877	14.877	0.000	87	345686	10.0	9.75	
A 60 TVOC as Toluene	1	14.971	(3.054-26.887)		0	123839694	10.0	2388.2	
61 4-Methyl-2-pentanone (MIBK	43	15.177	15.177	0.000	92	363816	10.0	9.36	
A 63 Toluene Range	1		(15.472-15.492)				ND	ND	
62 Toluene	92	15.476	15.482	-0.006	93	488227	10.0	9.69	
A 65 GRO	1	15.514	(15.514-15.514)		0	3483281	10.0	0	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	86	407003	10.0	9.21	
67 trans-1,3-Dichloropropene	75	16.097	16.102	-0.005	93	335101	10.0	9.06	
68 1,1,2-Trichloroethane	83	16.488	16.487	0.001	96	229387	10.0	9.76	
69 Tetrachloroethene	166	16.584	16.589	-0.005	95	489000	10.0	9.75	
70 2-Hexanone	43	16.942	16.942	0.000	92	363024	10.0	9.71	
71 Chlorodibromomethane	129	17.269	17.269	0.000	98	500982	10.0	10.3	
72 Ethylene Dibromide	107	17.552	17.552	0.000	99	451470	10.0	9.77	
* 73 Chlorobenzene-d5	117	18.456	18.456	0.000	81	989108	10.0	10.0	
74 Chlorobenzene	112	18.515	18.520	-0.005	99	700607	10.0	9.77	
75 Ethylbenzene	91	18.660	18.659	0.001	96	1054451	10.0	9.71	
76 n-Nonane	57	18.761	18.761	0.000	85	442481	10.0	9.49	
77 m-Xylene & p-Xylene	106	18.911	18.911	0.000	99	889686	20.0	19.4	
78 o-Xylene	106	19.724	19.729	-0.005	95	431929	10.0	9.54	
79 Styrene	104	19.778	19.778	0.000	98	679602	10.0	9.62	
S 80 Xylenes, Total	106				0		30.0	29.0	
81 Bromoform	173	20.190	20.189	0.001	99	528868	10.0	11.6	
82 Isopropylbenzene	105	20.361	20.361	0.000	94	1242028	10.0	9.62	
* 83 4-Bromofluorobenzene	95	20.719	20.724	-0.005	98	654126	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.987	20.992	-0.005	98	608429	10.0	10.0	
86 N-Propylbenzene	91	21.045	21.045	0.000	100	1438685	10.0	9.56	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	75	21.083	21.088	-0.005	96	436735	10.0	9.43	
88 n-Decane	57	21.190	21.190	0.000	83	566178	10.0	9.60	
89 4-Ethyltoluene	105	21.227	21.227	0.000	98	1286908	10.0	9.86	
90 2-Chlorotoluene	91	21.243	21.243	0.000	96	974728	10.0	9.55	
91 1,3,5-Trimethylbenzene	105	21.324	21.324	0.000	95	1044411	10.0	9.70	
92 Alpha Methyl Styrene	118	21.682	21.682	0.000	92	576644	10.0	10.2	
93 tert-Butylbenzene	119	21.800	21.800	0.000	96	1037099	10.0	9.66	
94 1,2,4-Trimethylbenzene	105	21.891	21.891	0.000	96	1043164	10.0	9.66	
95 sec-Butylbenzene	105	22.110	22.110	0.000	99	1520675	10.0	9.69	
96 4-Isopropyltoluene	119	22.308	22.308	0.000	98	1343792	10.0	9.72	
97 1,3-Dichlorobenzene	146	22.356	22.356	0.000	99	796260	10.0	9.59	
98 1,4-Dichlorobenzene	146	22.495	22.495	0.000	97	791123	10.0	9.42	
99 Benzyl chloride	91	22.699	22.698	0.001	100	786700	10.0	8.95	
100 Undecane	57	22.896	22.896	0.000	71	607911	10.0	10.0	
101 n-Butylbenzene	91	22.896	22.902	-0.006	96	1122971	10.0	9.66	
102 1,2-Dichlorobenzene	146	23.052	23.052	0.000	99	758480	10.0	9.64	
103 Dodecane	57	24.550	24.549	0.001	93	593419	10.0	10.7	
104 1,2,4-Trichlorobenzene	180	25.689	25.689	0.000	93	608346	10.0	8.38	
105 Hexachlorobutadiene	225	25.871	25.871	0.000	99	641979	10.0	9.50	
106 Naphthalene	128	26.219	26.219	0.000	99	1174789	10.0	8.45	
107 1,2,3-Trichlorobenzene	180	26.727	26.727	0.000	95	596882	10.0	8.89	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

ATTO15LCSW_00504	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

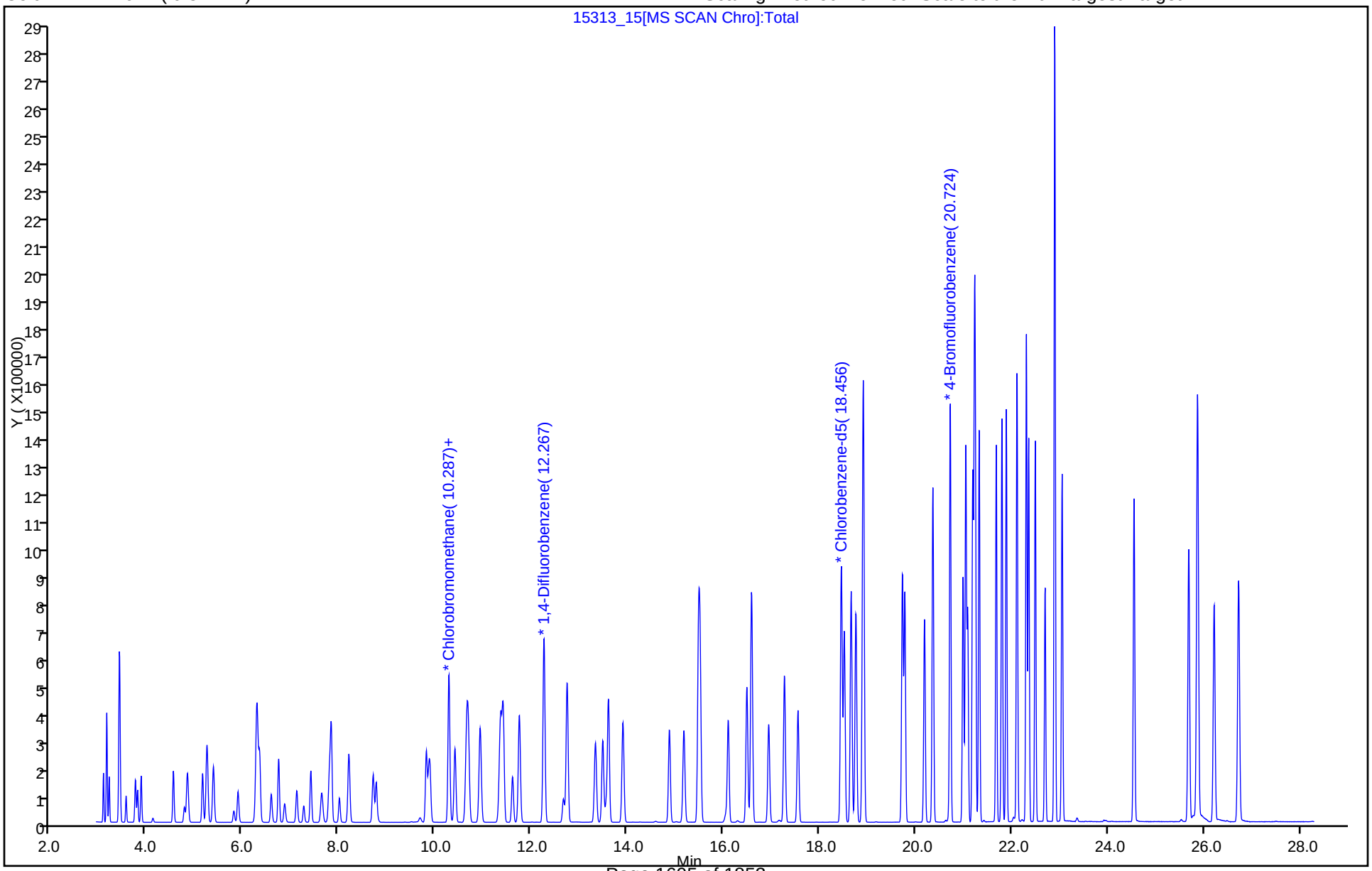
Report Date: 18-Aug-2015 11:12:48 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_15.D

Injection Date:	18-Aug-2015 03:10:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	icv			Worklist Smp#:	15
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-95027/2 Calibration Date: 10/05/2015 09:29

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 16087_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4154	0.3640		8.76	10.0	-12.4	30.0
Dichlorodifluoromethane	Ave	1.945	1.972		10.1	10.0	1.4	30.0
Freon 22	Ave	0.9407	0.8781		9.33	10.0	-6.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.978	1.936		9.79	10.0	-2.1	30.0
Chloromethane	Ave	0.5474	0.4937		9.02	10.0	-9.8	30.0
n-Butane	Ave	0.8991	0.7806		8.68	10.0	-13.2	30.0
Vinyl chloride	Ave	0.6903	0.6749		9.77	10.0	-2.2	30.0
1,3-Butadiene	Ave	0.4958	0.4623		9.32	10.0	-6.8	30.0
Bromomethane	Ave	0.7816	0.7732		9.89	10.0	-1.1	30.0
Chloroethane	Ave	0.3486	0.3308		9.49	10.0	-5.1	30.0
Isopentane	Ave	0.6436	0.5323		8.27	10.0	-17.3	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9022	0.9233		10.2	10.0	2.3	30.0
Trichlorofluoromethane	Ave	2.145	2.189		10.2	10.0	2.0	30.0
n-Pentane	Ave	1.024	0.8565		8.37	10.0	-16.3	30.0
Ethanol	Ave	0.2146	0.2411		16.9	15.0	12.4	30.0
Ethyl ether	Ave	0.4504	0.4192		9.31	10.0	-6.9	30.0
Acrolein	Ave	0.1694	0.1918		11.3	10.0	13.2	30.0
Freon TF	Ave	1.717	1.704		9.92	10.0	-0.8	30.0
1,1-Dichloroethene	Ave	0.8028	0.7991		9.95	10.0	-0.5	30.0
Acetone	Ave	0.8752	0.7988		9.13	10.0	-8.7	30.0
Carbon disulfide	Ave	2.040	1.972		9.67	10.0	-3.3	30.0
Isopropyl alcohol	Ave	0.8295	0.6941		8.37	10.0	-16.3	30.0
3-Chloropropene	Ave	0.6775	0.6160		9.09	10.0	-9.1	30.0
Acetonitrile	Ave	0.4149	0.3352		8.08	10.0	-19.2	30.0
Methylene Chloride	Ave	0.7371	0.6207		8.42	10.0	-15.8	30.0
tert-Butyl alcohol	Ave	1.330	1.184		8.91	10.0	-10.9	30.0
Methyl tert-butyl ether	Ave	2.220	2.112		9.51	10.0	-4.9	30.0
trans-1,2-Dichloroethene	Ave	1.031	0.9560		9.27	10.0	-7.3	30.0
Acrylonitrile	Ave	0.4784	0.4143		8.66	10.0	-13.4	30.0
n-Hexane	Ave	1.095	0.9407		8.59	10.0	-14.1	30.0
1,1-Dichloroethane	Ave	1.392	1.260		9.05	10.0	-9.5	30.0
Vinyl acetate	Ave	1.632	1.444		8.85	10.0	-11.5	30.0
cis-1,2-Dichloroethene	Ave	1.013	1.006		9.93	10.0	-0.7	30.0
Methyl Ethyl Ketone	Ave	0.4645	0.3950		8.50	10.0	-15.0	30.0
Ethyl acetate	Ave	0.0735	0.0704		9.58	10.0	-4.2	30.0
Tetrahydrofuran	Ave	0.1425	0.1201		8.43	10.0	-15.7	30.0
Chloroform	Ave	1.858	1.825		9.82	10.0	-1.8	30.0
Cyclohexane	Ave	0.2503	0.2350		9.39	10.0	-6.1	30.0
1,1,1-Trichloroethane	Ave	0.3646	0.3623		9.94	10.0	-0.6	30.0
Carbon tetrachloride	Ave	0.3798	0.3407		8.97	10.0	-10.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-95027/2 Calibration Date: 10/05/2015 09:29

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 16087_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.8365	0.7387		8.83	10.0	-11.7	30.0
Benzene	Ave	0.5838	0.5473		9.37	10.0	-6.3	30.0
1,2-Dichloroethane	Ave	0.2049	0.1959		9.56	10.0	-4.4	30.0
n-Heptane	Ave	0.2817	0.2380		8.45	10.0	-15.5	30.0
n-Butanol	Ave	0.0971	0.0717		7.38	10.0	-26.2	30.0
Trichloroethene	Ave	0.2942	0.2779		9.44	10.0	-5.5	30.0
1,2-Dichloropropane	Ave	0.2219	0.2097		9.45	10.0	-5.5	30.0
Methyl methacrylate	Ave	0.2211	0.2103		9.51	10.0	-4.9	30.0
1,4-Dioxane	Ave	0.1097	0.0993		9.05	10.0	-9.4	30.0
Dibromomethane	Ave	0.3538	0.3924		11.1	10.0	10.9	30.0
Bromodichloromethane	Ave	0.4167	0.4300		10.3	10.0	3.2	30.0
cis-1,3-Dichloropropene	Ave	0.3482	0.3479		9.99	10.0	-0.1	30.0
methyl isobutyl ketone	Ave	0.3817	0.3442		9.02	10.0	-9.8	30.0
Toluene	Ave	0.5092	0.4999		9.82	10.0	-1.8	30.0
n-Octane	Ave	0.4337	0.3864		8.91	10.0	-10.9	30.0
trans-1,3-Dichloropropene	Ave	0.3631	0.3489		9.61	10.0	-3.9	30.0
1,1,2-Trichloroethane	Ave	0.2376	0.2313		9.74	10.0	-2.6	30.0
Tetrachloroethene	Ave	0.5071	0.5606		11.1	10.0	10.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3781	0.2918		7.72	10.0	-22.8	30.0
Dibromochloromethane	Ave	0.4912	0.5485		11.2	10.0	11.7	30.0
1,2-Dibromoethane	Ave	0.4673	0.4824		10.3	10.0	3.2	30.0
Chlorobenzene	Ave	0.7250	0.7440		10.3	10.0	2.6	30.0
Ethylbenzene	Ave	1.098	1.086		9.89	10.0	-1.1	30.0
n-Nonane	Ave	0.4713	0.4255		9.03	10.0	-9.7	30.0
m,p-Xylene	Ave	0.4629	0.4673		20.2	20.0	0.9	30.0
Xylene, o-	Ave	0.4575	0.4635		10.1	10.0	1.3	30.0
Styrene	Ave	0.7141	0.7263		10.2	10.0	1.7	30.0
Bromoform	Ave	0.4591	0.6325		13.8	10.0	37.8*	30.0
Cumene	Ave	1.305	1.312		10.1	10.0	0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6141	0.6143		10.0	10.0	0.0	30.0
n-Propylbenzene	Ave	1.521	1.506		9.90	10.0	-1.0	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4452		9.50	10.0	-4.9	30.0
n-Decane	Ave	0.5960	0.5531		9.28	10.0	-7.2	30.0
4-Ethyltoluene	Ave	1.319	1.298		9.84	10.0	-1.6	30.0
2-Chlorotoluene	Ave	1.032	1.010		9.79	10.0	-2.1	30.0
1,3,5-Trimethylbenzene	Ave	1.089	0.9359		8.60	10.0	-14.0	30.0
Alpha Methyl Styrene	Ave	0.5739	0.5197		9.05	10.0	-9.4	30.0
tert-Butylbenzene	Ave	1.085	0.9128		8.41	10.0	-15.9	30.0
1,2,4-Trimethylbenzene	Ave	1.091	0.9753		8.93	10.0	-10.6	30.0
sec-Butylbenzene	Ave	1.587	1.521		9.59	10.0	-4.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Lab Sample ID: CCVIS 200-95027/2 Calibration Date: 10/05/2015 09:29

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 16087_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.397	1.490		10.7	10.0	6.7	30.0
1,3-Dichlorobenzene	Ave	0.8393	0.7665		9.13	10.0	-8.7	30.0
1,4-Dichlorobenzene	Ave	0.8495	0.7807		9.19	10.0	-8.1	30.0
Benzyl chloride	Ave	0.8886	0.9648		10.9	10.0	8.6	30.0
n-Butylbenzene	Ave	1.176	1.192		10.1	10.0	1.4	30.0
n-Undecane	Ave	0.6119	0.5868		9.59	10.0	-4.1	30.0
1,2-Dichlorobenzene	Ave	0.7956	0.8300		10.4	10.0	4.3	30.0
n-Dodecane	Ave	0.5587	0.5311		9.50	10.0	-4.9	30.0
1,2,4-Trichlorobenzene	Ave	0.7342	0.8278		11.3	10.0	12.7	30.0
Hexachlorobutadiene	Ave	0.6833	0.7680		11.2	10.0	12.4	30.0
Naphthalene	Ave	1.406	1.530		10.9	10.0	8.8	30.0
1,2,3-Trichlorobenzene	Ave	0.6787	0.7358		10.8	10.0	8.4	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_02.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Oct-2015 09:29:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-002
Misc. Info.: ccvis
Operator ID: wrd Instrument ID: CHX.i
Sublist: chrom-TO15_LLNJ_TO3_CHX.i.m*sub3

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 05-Oct-2015 10:17:16 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: desjardinsb Date: 05-Oct-2015 10:17:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.103	3.103	0.000	98	67017	10.0	8.76	
2 Dichlorodifluoromethane	85	3.172	3.172	0.000	99	363022	10.0	10.1	
3 Chlorodifluoromethane	51	3.226	3.226	0.000	97	161692	10.0	9.33	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.440	3.440	0.000	95	356544	10.0	9.79	
5 Chloromethane	50	3.579	3.579	0.000	99	90901	10.0	9.02	
6 Butane	43	3.771	3.771	0.000	98	143730	10.0	8.68	
7 Vinyl chloride	62	3.814	3.814	0.000	98	124269	10.0	9.77	
8 Butadiene	54	3.889	3.889	0.000	93	85117	10.0	9.32	
9 Bromomethane	94	4.558	4.558	0.000	99	142372	10.0	9.89	
$ 19 BFB									
10 Chloroethane	64	4.788	4.788	0.000	99	60910	10.0	9.49	
11 2-Methylbutane	43	4.852	4.852	0.000	90	98011	10.0	8.27	
12 Vinyl bromide	106	5.168	5.168	0.000	99	170005	10.0	10.2	
13 Trichlorofluoromethane	101	5.259	5.259	0.000	98	402980	10.0	10.2	
14 Pentane	43	5.392	5.392	0.000	95	157716	10.0	8.37	
15 Ethanol	45	5.868	5.868	0.000	98	66625	15.0	16.9	
16 Ethyl ether	59	5.922	5.922	0.000	87	77196	10.0	9.31	
18 1,1,2-Trichloro-1,2,2-trif	101	6.296	6.296	0.000	93	313772	10.0	9.92	
17 Acrolein	56	6.296	6.296	0.000	96	35321	10.0	11.3	
20 1,1-Dichloroethene	96	6.350	6.350	0.000	95	147139	10.0	9.95	
21 Acetone	43	6.612	6.612	0.000	89	147089	10.0	9.13	
22 Carbon disulfide	76	6.746	6.746	0.000	98	363186	10.0	9.67	
23 Isopropyl alcohol	45	6.922	6.922	0.000	99	127802	10.0	8.37	
24 3-Chloro-1-propene	41	7.120	7.120	0.000	88	113430	10.0	9.09	
25 Acetonitrile	41	7.275	7.275	0.000	99	61721	10.0	8.08	
26 Methylene Chloride	49	7.414	7.414	0.000	81	114285	10.0	8.42	
28 2-Methyl-2-propanol	59	7.709	7.709	0.000	99	218083	10.0	8.91	
29 Methyl tert-butyl ether	73	7.826	7.826	0.000	95	388797	10.0	9.51	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	88	176028	10.0	9.27	
31 Acrylonitrile	53	8.014	8.014	0.000	95	76282	10.0	8.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 Hexane	57	8.212	8.212	0.000	88	173214	10.0	8.59	
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	231915	10.0	9.05	
34 Vinyl acetate	43	8.784	8.784	0.000	99	265944	10.0	8.85	
35 cis-1,2-Dichloroethene	96	9.811	9.811	0.000	92	185231	10.0	9.93	
36 2-Butanone (MEK)	72	9.881	9.881	0.000	100	72731	10.0	8.50	
37 Ethyl acetate	88	9.907	9.907	0.000	99	12969	10.0	9.58	
S 38 1,2-Dichloroethene, Total	61				0		20.0	19.2	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	72	184168	10.0	10.0	
39 Tetrahydrofuran	42	10.298	10.298	0.000	90	120202	10.0	8.43	
41 Chloroform	83	10.410	10.410	0.000	99	336128	10.0	9.82	
42 Cyclohexane	84	10.651	10.651	0.000	83	235122	10.0	9.39	
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	96	362526	10.0	9.94	
44 Carbon tetrachloride	117	10.929	10.929	0.000	96	340885	10.0	8.97	
45 Isooctane	57	11.368	11.368	0.000	99	739209	10.0	8.83	
46 Benzene	78	11.411	11.411	0.000	93	547640	10.0	9.37	
47 1,2-Dichloroethane	62	11.609	11.609	0.000	97	195990	10.0	9.56	
48 n-Heptane	43	11.753	11.753	0.000	85	238161	10.0	8.45	
* 50 1,4-Difluorobenzene	114	12.261	12.261	0.000	91	1000829	10.0	10.0	
51 n-Butanol	56	12.711	12.711	0.000	82	71725	10.0	7.38	
52 Trichloroethene	95	12.743	12.743	0.000	91	278102	10.0	9.44	
53 1,2-Dichloropropane	63	13.331	13.331	0.000	94	209866	10.0	9.45	
54 Methyl methacrylate	69	13.497	13.497	0.000	81	210420	10.0	9.51	
55 1,4-Dioxane	88	13.572	13.572	0.000	86	99357	10.0	9.05	
56 Dibromomethane	174	13.604	13.604	0.000	86	392677	10.0	11.1	
57 Dichlorobromomethane	83	13.904	13.904	0.000	98	430297	10.0	10.3	
58 cis-1,3-Dichloropropene	75	14.872	14.872	0.000	86	348071	10.0	9.99	
A 60 TVOC as Toluene	1	14.966	(3.065-26.866)		0	127435133	10.0	2500.6	
A 59 Total Hydrocarbons	1	14.966	(3.065-26.866)		0	127435133	NC	NC	
61 4-Methyl-2-pentanone (MIBK	43	15.193	15.193	0.000	91	344395	10.0	9.02	
62 Toluene	92	15.476	15.476	0.000	93	504334	10.0	9.82	
A 63 Toluene Range	1		(15.466-15.486)				ND	ND	
66 n-Octane	43	15.514	15.514	0.000	85	386610	10.0	8.91	
A 64 C8 Range	1		(15.504-15.524)				ND	ND	
A 65 GRO	1	15.514	(15.514-15.514)		0	3490501	10.0	0	
67 trans-1,3-Dichloropropene	75	16.092	16.092	0.000	92	349092	10.0	9.61	
68 1,1,2-Trichloroethane	83	16.482	16.482	0.000	95	233377	10.0	9.74	
69 Tetrachloroethene	166	16.579	16.579	0.000	92	565510	10.0	11.1	
70 2-Hexanone	43	16.953	16.953	0.000	91	294393	10.0	7.72	
71 Chlorodibromomethane	129	17.263	17.263	0.000	98	553373	10.0	11.2	
72 Ethylene Dibromide	107	17.547	17.547	0.000	98	486607	10.0	10.3	
* 73 Chlorobenzene-d5	117	18.446	18.446	0.000	80	1009002	10.0	10.0	
74 Chlorobenzene	112	18.510	18.510	0.000	99	750581	10.0	10.3	
75 Ethylbenzene	91	18.649	18.649	0.000	96	1095695	10.0	9.89	
76 n-Nonane	57	18.751	18.751	0.000	84	429243	10.0	9.03	
77 m-Xylene & p-Xylene	106	18.906	18.906	0.000	98	942850	20.0	20.2	
78 o-Xylene	106	19.719	19.719	0.000	96	467587	10.0	10.1	
79 Styrene	104	19.767	19.767	0.000	98	732718	10.0	10.2	
S 80 Xylenes, Total	106				0		30.0	30.3	
81 Bromoform	173	20.179	20.179	0.000	99	638105	10.0	13.8	
82 Isopropylbenzene	105	20.355	20.355	0.000	93	1323741	10.0	10.1	
* 83 4-Bromofluorobenzene	95	20.714	20.714	0.000	96	640468	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.981	20.981	0.000	98	619669	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 N-Propylbenzene	91	21.035	21.035	0.000	99	1519436	10.0	9.90	
87 1,2,3-Trichloropropane	75	21.078	21.078	0.000	93	449119	10.0	9.50	
88 n-Decane	57	21.179	21.179	0.000	82	557922	10.0	9.28	
89 4-Ethyltoluene	105	21.217	21.217	0.000	98	1309524	10.0	9.84	
90 2-Chlorotoluene	91	21.238	21.238	0.000	96	1018834	10.0	9.79	
91 1,3,5-Trimethylbenzene	105	21.318	21.318	0.000	95	944174	10.0	8.60	
92 Alpha Methyl Styrene	118	21.671	21.671	0.000	92	524251	10.0	9.05	
93 tert-Butylbenzene	119	21.789	21.789	0.000	97	920859	10.0	8.41	
94 1,2,4-Trimethylbenzene	105	21.880	21.880	0.000	95	983865	10.0	8.93	
95 sec-Butylbenzene	105	22.105	22.105	0.000	99	1534440	10.0	9.59	
96 4-Isopropyltoluene	119	22.297	22.297	0.000	98	1503226	10.0	10.7	
97 1,3-Dichlorobenzene	146	22.346	22.346	0.000	99	773259	10.0	9.13	
98 1,4-Dichlorobenzene	146	22.485	22.485	0.000	98	787595	10.0	9.19	
99 Benzyl chloride	91	22.688	22.688	0.000	99	973265	10.0	10.9	
101 n-Butylbenzene	91	22.886	22.886	0.000	96	1202253	10.0	10.1	
100 Undecane	57	22.886	22.886	0.000	92	591913	10.0	9.59	
102 1,2-Dichlorobenzene	146	23.041	23.041	0.000	99	837265	10.0	10.4	
103 Dodecane	57	24.534	24.534	0.000	93	535788	10.0	9.50	
104 1,2,4-Trichlorobenzene	180	25.673	25.673	0.000	90	835111	10.0	11.3	
105 Hexachlorobutadiene	225	25.855	25.855	0.000	98	774781	10.0	11.2	
106 Naphthalene	128	26.197	26.197	0.000	99	1543230	10.0	10.9	
107 1,2,3-Trichlorobenzene	180	26.706	26.706	0.000	95	742244	10.0	10.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

ATTO15CAL4w_00492	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

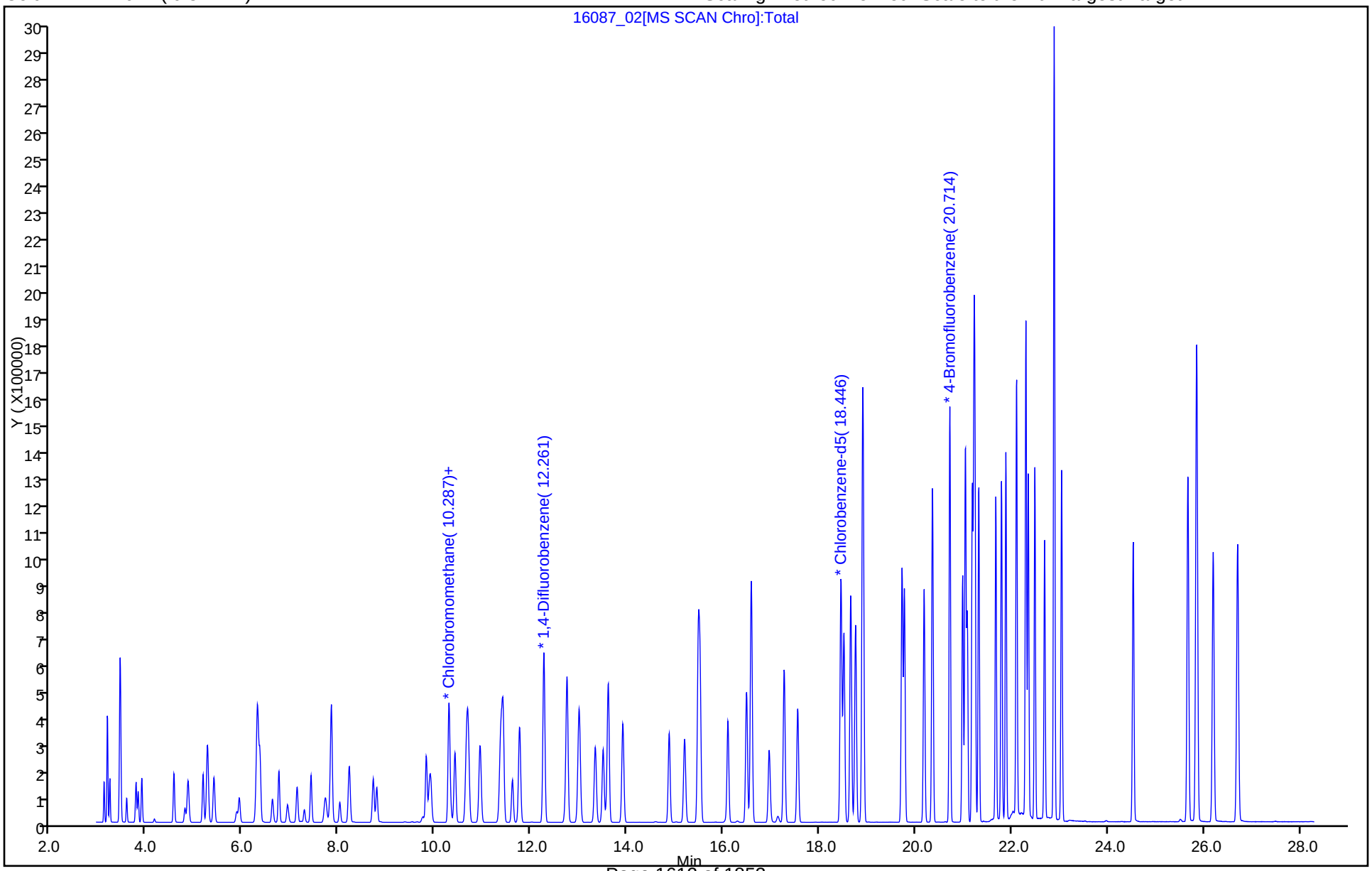
Report Date: 05-Oct-2015 10:17:17 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_02.D

Injection Date:	05-Oct-2015 09:29:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_001.d
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 28-Sep-2015 14:27:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Sample Info: 200-0015979-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 29-Sep-2015 12:09:46 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
	9 BFB									
*	40 Chlorobromomethane	128		13.108				10.0	ND	
*	50 1,4-Difluorobenzene	114		15.018				10.0	ND	
*	74 Chlorobenzene-d5	117		20.732				10.0	ND	
$	83 4-Bromofluorobenzene	95		22.197				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
7 - Failed Limit of Detection

Reagents:

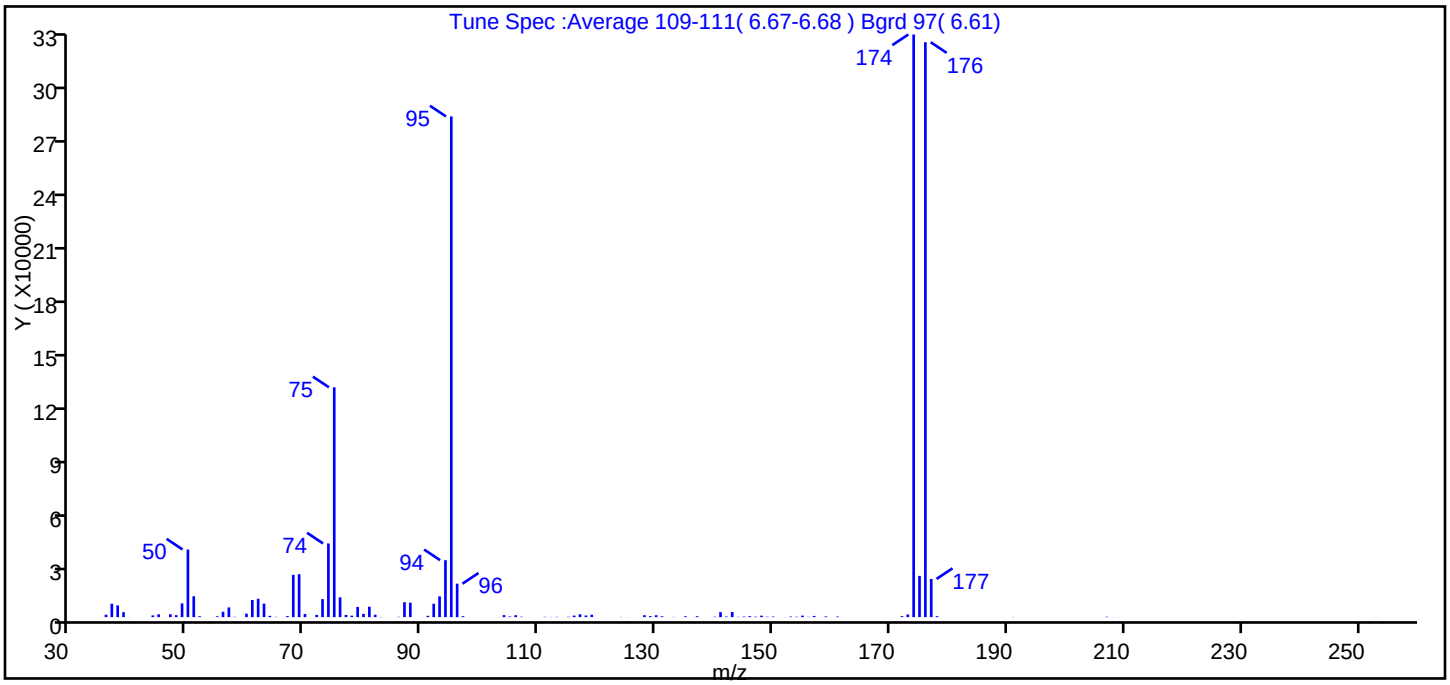
ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_001.d
Injection Date: 28-Sep-2015 14:27:30 Instrument ID: CHW.i
Lims ID: bfb
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	13.5
75	30.0 to 66.0 Percent of m/e 95	45.9
96	5.0 to 9.0 Percent of m/e 95	6.7
173	Less than 2.0 Percent of m/e 174	0.5 (0.5)
174	50.0 to 120.0 Percent of m/e 95	116.4
175	4.0 to 9.0 Percent of m/e 174	8.2 (7.1)
176	93.0 to 101.0 Percent of m/e 174	114.8 (98.7)
177	5.0 to 9.0 Percent of m/e 176	7.6 (6.6)

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_001.d\TO15_MasterMethod_(v1).rslt\
Injection Date: 28-Sep-2015 14:27:30
Spectrum: Tune Spec :Average 109-111(6.67-6.68) Bgrd 97(6.61)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1384	70.00	1809	106.00	1083	147.00	272
37.00	7531	72.00	1261	107.00	256	148.00	840
38.00	6605	73.00	10145	111.00	187	149.00	239
39.00	2777	74.00	41432	112.00	115	150.00	332
40.00	38	75.00	129232	113.00	171	152.00	64
44.00	992	76.00	11142	115.00	233	153.00	334
45.00	1565	77.00	1226	116.00	876	154.00	247
47.00	1622	78.00	818	117.00	1616	155.00	864
48.00	1111	79.00	5742	118.00	932	156.00	155
49.00	7729	80.00	1840	119.00	1354	157.00	684
50.00	38024	81.00	5885	124.00	115	159.00	409
51.00	11734	82.00	1344	125.00	57	161.00	369
52.00	521	83.00	117	128.00	1107	172.00	554
55.00	490	86.00	188	129.00	588	173.00	1497
56.00	3036	87.00	8393	130.00	1072	174.00	327616
57.00	5449	88.00	8139	131.00	472	175.00	23200
58.00	189	91.00	766	133.00	131	176.00	323264
60.00	1969	92.00	7518	135.00	501	177.00	21480
61.00	9646	93.00	11684	137.00	525	178.00	554
62.00	10328	94.00	32032	140.00	239	191.00	114
63.00	7621	95.00	281536	141.00	2801	207.00	251
64.00	730	96.00	18808	142.00	337	208.00	31
65.00	166	97.00	550	143.00	2905	209.00	56
67.00	606	103.00	67	144.00	184	253.00	61
68.00	23792	104.00	1145	145.00	311		
69.00	24176	105.00	360	146.00	552		

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_001.d				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	29-Sep-2015 10:30:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	0.0 mL	Dil. Factor:	1.0000		
Sample Info:	200-0015991-001				
Misc. Info.:	bfb				
Operator ID:	pad	Instrument ID:	CHW.i		
Method:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m				
Limit Group:	AI_TO15_ICAL				
Last Update:	30-Sep-2015 14:16:22	Calib Date:	28-Sep-2015 21:32:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d				
Column 1 :	RTX-624 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK016				

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
	9 BFB									
*	40 Chlorobromomethane	128		13.108				10.0	ND	
*	50 1,4-Difluorobenzene	114		15.018				10.0	ND	
*	74 Chlorobenzene-d5	117		20.731				10.0	ND	
$	83 4-Bromofluorobenzene	95		22.197				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

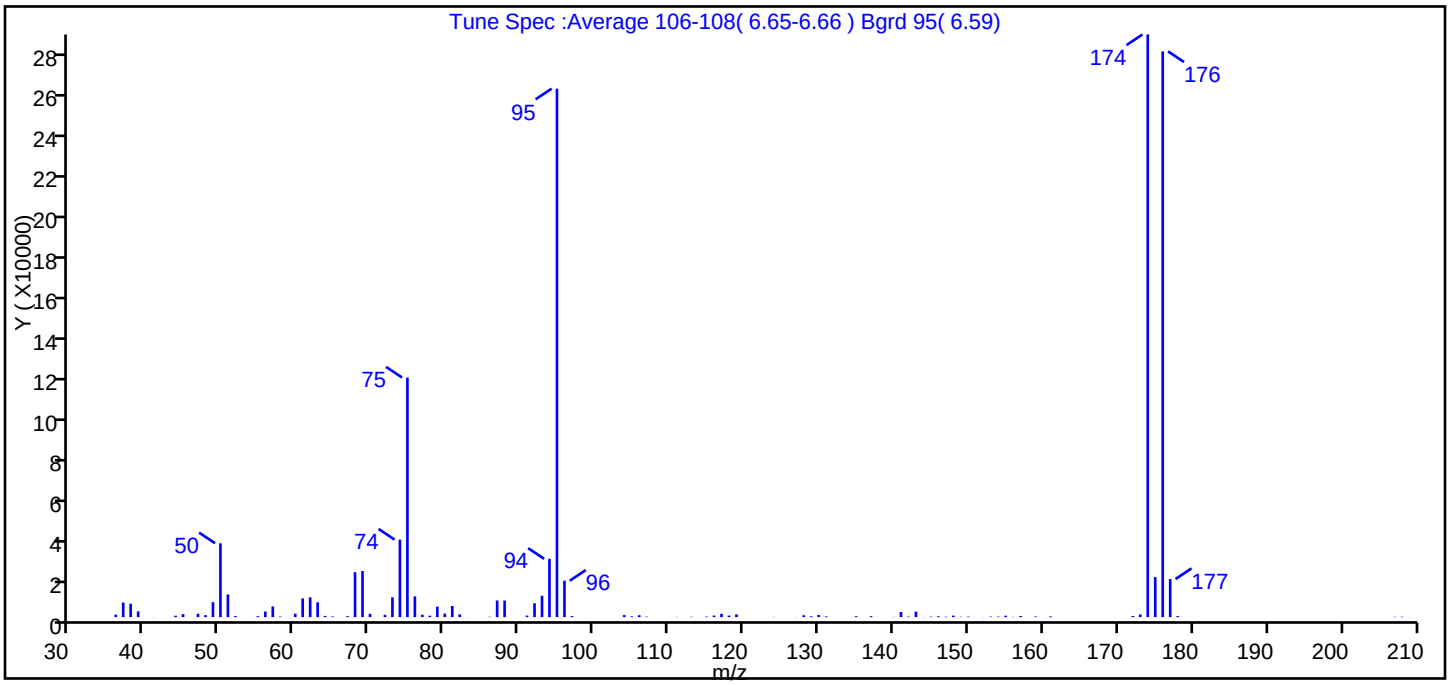
ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_001.d
Injection Date: 29-Sep-2015 10:30:30 Instrument ID: CHW.i
Lims ID: bfb
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	14.0
75	30.0 to 66.0 Percent of m/e 95	45.3
96	5.0 to 9.0 Percent of m/e 95	6.9
173	Less than 2.0 Percent of m/e 174	0.5 (0.5)
174	50.0 to 120.0 Percent of m/e 95	110.2
175	4.0 to 9.0 Percent of m/e 174	7.6 (6.9)
176	93.0 to 101.0 Percent of m/e 174	107.0 (97.1)
177	5.0 to 9.0 Percent of m/e 176	7.2 (6.7)

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_001.d\TO15_MasterMethod_(v1).rslt\
Injection Date: 29-Sep-2015 10:30:30
Spectrum: Tune Spec :Average 106-108(6.65-6.66) Bgrd 95(6.59)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1207	69.00	22344	105.00	389	147.00	221
37.00	7089	70.00	1614	106.00	938	148.00	758
38.00	6521	72.00	1096	107.00	251	149.00	175
39.00	2797	73.00	9591	111.00	114	150.00	263
41.00	57	74.00	37544	113.00	186	152.00	67
44.00	677	75.00	116056	115.00	295	153.00	251
45.00	1439	76.00	10039	116.00	777	154.00	279
47.00	1655	77.00	1165	117.00	1603	155.00	703
48.00	964	78.00	692	118.00	756	156.00	130
49.00	7249	79.00	5104	119.00	1326	157.00	567
50.00	35776	80.00	1727	124.00	126	159.00	333
51.00	10988	81.00	5387	127.00	61	161.00	378
52.00	526	82.00	1366	128.00	910	172.00	582
55.00	471	83.00	52	129.00	414	173.00	1306
56.00	2715	86.00	188	130.00	1045	174.00	282240
57.00	5205	87.00	8092	131.00	380	175.00	19384
58.00	275	88.00	8021	135.00	473	176.00	274048
60.00	1673	91.00	763	137.00	473	177.00	18456
61.00	9053	92.00	6737	140.00	111	178.00	518
62.00	9592	93.00	10356	141.00	2513	207.00	164
63.00	7199	94.00	28240	142.00	282	208.00	208
64.00	608	95.00	256000	143.00	2659	209.00	51
65.00	314	96.00	17648	144.00	64		
67.00	493	97.00	531	145.00	232		
68.00	21776	104.00	1008	146.00	435		

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_001.d
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 30-Sep-2015 11:02:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Sample Info: 200-0016024-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:13 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 30-Sep-2015 13:38:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
9 BFB									
* 40 Chlorobromomethane	128		13.114				10.0	ND	
* 50 1,4-Difluorobenzene	114		15.018				10.0	ND	
* 74 Chlorobenzene-d5	117		20.732				10.0	ND	
$ 83 4-Bromofluorobenzene	95		22.192				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
7 - Failed Limit of Detection

Reagents:

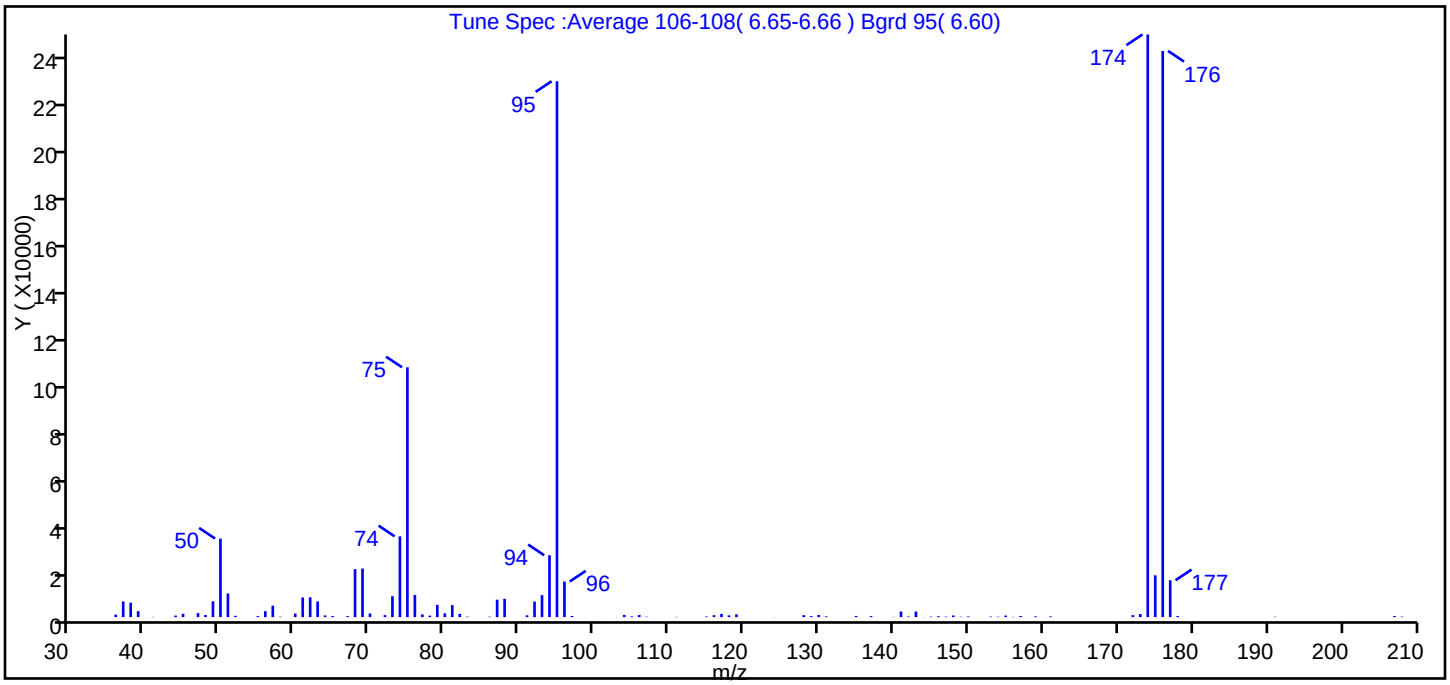
ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_001.d
Injection Date: 30-Sep-2015 11:02:30 Instrument ID: CHW.i
Lims ID: bfb
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	14.7
75	30.0 to 66.0 Percent of m/e 95	46.6
96	5.0 to 9.0 Percent of m/e 95	6.7
173	Less than 2.0 Percent of m/e 174	0.6 (0.5)
174	50.0 to 120.0 Percent of m/e 95	108.7
175	4.0 to 9.0 Percent of m/e 174	7.8 (7.2)
176	93.0 to 101.0 Percent of m/e 174	105.6 (97.2)
177	5.0 to 9.0 Percent of m/e 176	6.9 (6.5)

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_001.d\TO15_MasterMethod_(v1).rslt\
Injection Date: 30-Sep-2015 11:02:30
Spectrum: Tune Spec :Average 106-108(6.65-6.66) Bgrd 95(6.60)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1080	67.00	449	96.00	15221	144.00	50
37.00	6698	68.00	20496	97.00	496	145.00	211
38.00	6160	69.00	20744	103.00	50	146.00	398
39.00	2554	70.00	1559	104.00	930	147.00	215
40.00	16	72.00	872	105.00	336	148.00	709
41.00	113	73.00	8949	106.00	893	149.00	178
44.00	666	74.00	34528	107.00	184	150.00	307
45.00	1435	75.00	106688	111.00	114	153.00	238
47.00	1713	76.00	9483	115.00	285	154.00	192
48.00	927	77.00	1162	116.00	848	155.00	690
49.00	6754	78.00	649	117.00	1387	156.00	128
50.00	33536	79.00	5247	118.00	770	157.00	497
51.00	10106	80.00	1646	119.00	1179	159.00	373
52.00	572	81.00	5130	124.00	77	161.00	338
55.00	459	82.00	1401	128.00	854	172.00	852
56.00	2547	83.00	227	129.00	431	173.00	1314
57.00	4907	86.00	210	130.00	940	174.00	248832
58.00	190	87.00	7462	131.00	367	175.00	17864
60.00	1549	88.00	7833	135.00	527	176.00	241792
61.00	8392	91.00	791	137.00	444	177.00	15764
62.00	8477	92.00	6653	140.00	114	178.00	493
63.00	6701	93.00	9396	141.00	2392	191.00	184
64.00	728	94.00	26440	142.00	272	207.00	498
65.00	477	95.00	228864	143.00	2387	208.00	237

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 17-Aug-2015 15:35:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Sample Info: 200-0015313-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Aug-2015 11:12:19 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: daiglep Date: 18-Aug-2015 10:52:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 19 BFB									
* 40 Chlorobromomethane	128		10.282				10.0	ND	
* 50 1,4-Difluorobenzene	114		12.267				10.0	ND	
* 73 Chlorobenzene-d5	117		18.456				10.0	ND	
* 83 4-Bromofluorobenzene	95		20.724				10.0	ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

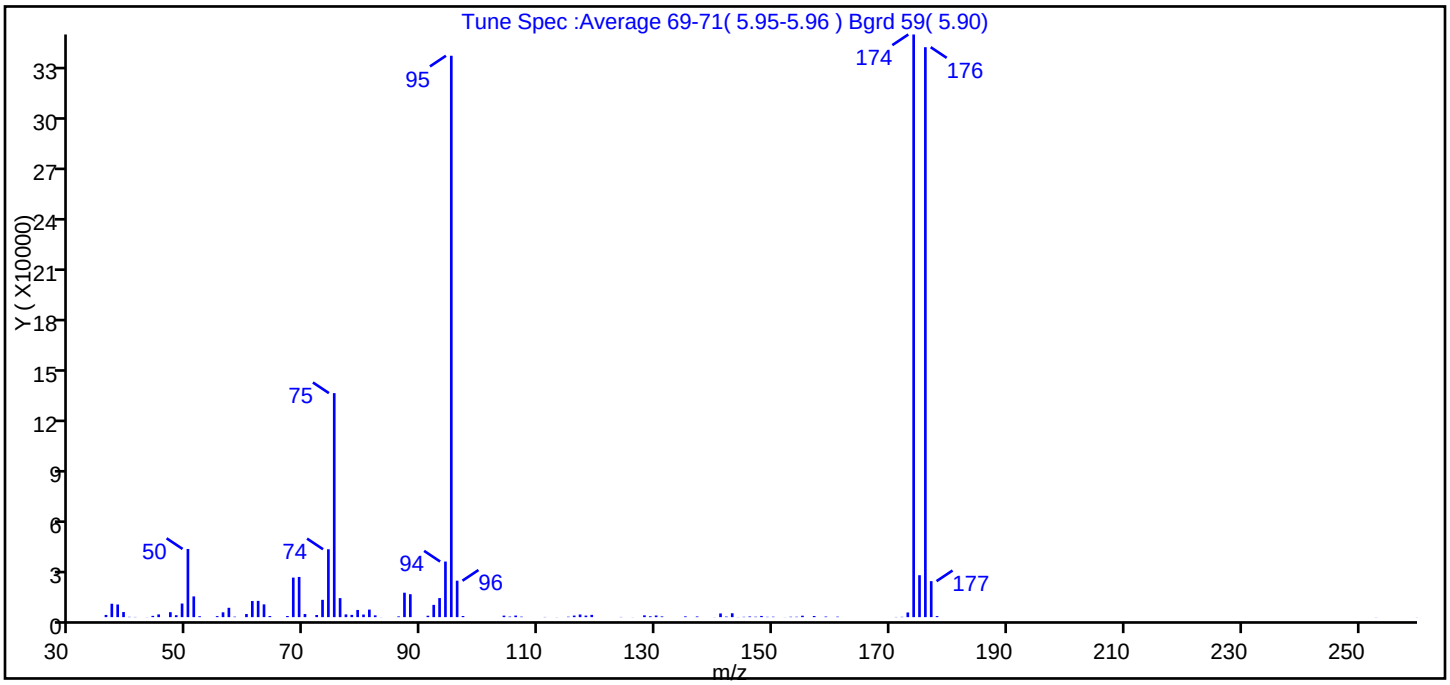
ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_01.D
Injection Date: 17-Aug-2015 15:35:30 Instrument ID: CHX.i
Lims ID: bfb
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

$ 19 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	12.1
75	30.0 to 66.0 Percent of m/e 95	39.9
96	5.0 to 9.0 Percent of m/e 95	6.5
173	Less than 2.0 Percent of m/e 174	0.8 (0.8)
174	50.0 to 120.0 Percent of m/e 95	103.8
175	4.0 to 9.0 Percent of m/e 174	7.5 (7.2)
176	93.0 to 101.0 Percent of m/e 174	101.5 (97.8)
177	5.0 to 9.0 Percent of m/e 176	6.4 (6.3)

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_01.D\TO15_LLNJ_TO3_CHX.i.m.rslt\
Injection Date: 17-Aug-2015 15:35:30
Spectrum: Tune Spec :Average 69-71(5.95-5.96) Bgrd 59(5.90)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1320	68.00	23664	104.00	911	146.00	396
37.00	8013	69.00	24056	105.00	352	147.00	265
38.00	7570	70.00	1864	106.00	942	148.00	718
39.00	3059	72.00	1283	107.00	294	149.00	186
40.00	183	73.00	10367	111.00	117	150.00	262
41.00	120	74.00	40624	113.00	67	152.00	56
43.00	72	75.00	134080	115.00	255	153.00	242
44.00	768	76.00	11395	116.00	945	154.00	237
45.00	1632	77.00	1634	117.00	1575	155.00	846
47.00	2979	78.00	1344	118.00	931	157.00	674
48.00	1163	79.00	4301	119.00	1365	159.00	369
49.00	8147	80.00	1560	124.00	121	161.00	297
50.00	40800	81.00	4520	126.00	57	171.00	113
51.00	12410	82.00	1071	128.00	1085	172.00	187
52.00	532	83.00	60	129.00	515	173.00	2802
55.00	616	86.00	437	130.00	978	174.00	348736
56.00	2904	87.00	14630	131.00	439	175.00	25104
57.00	5595	88.00	13725	135.00	465	176.00	341120
58.00	297	91.00	841	137.00	419	177.00	21536
60.00	1888	92.00	7346	140.00	65	178.00	620
61.00	9643	93.00	11407	141.00	2220	253.00	66
62.00	9739	94.00	33280	142.00	342	260.00	54
63.00	7639	95.00	336000	143.00	2323		
64.00	654	96.00	21816	144.00	66		
67.00	676	97.00	685	145.00	200		

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 05-Oct-2015 08:39:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-001
Misc. Info.: bfb
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 05-Oct-2015 09:02:31 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: desjardinsb Date: 05-Oct-2015 09:02:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 19 BFB									
* 40 Chlorobromomethane	128		10.282				10.0	ND	
* 50 1,4-Difluorobenzene	114		12.261				10.0	ND	
* 73 Chlorobenzene-d5	117		18.446				10.0	ND	
* 83 4-Bromofluorobenzene	95		20.714				10.0	ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

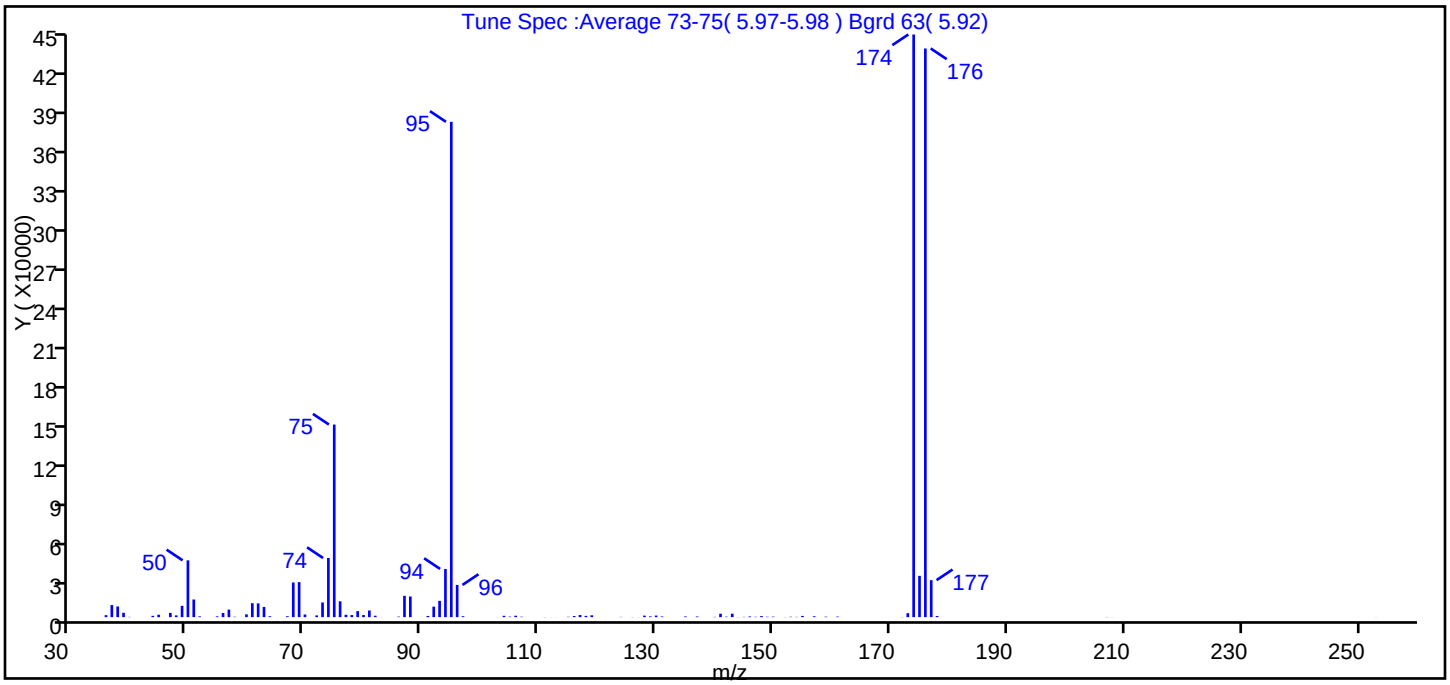
ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_01.D
Injection Date: 05-Oct-2015 08:39:30 Instrument ID: CHX.i
Lims ID: bfb
Client ID:
Operator ID: wrd ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 0.0 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3_CHX.i.m Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

$ 19 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	11.5
75	30.0 to 66.0 Percent of m/e 95	38.9
96	5.0 to 9.0 Percent of m/e 95	6.5
173	Less than 2.0 Percent of m/e 174	0.8 (0.7)
174	50.0 to 120.0 Percent of m/e 95	117.6
175	4.0 to 9.0 Percent of m/e 174	8.3 (7.1)
176	93.0 to 101.0 Percent of m/e 174	114.8 (97.6)
177	5.0 to 9.0 Percent of m/e 176	7.5 (6.5)

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_01.D\TO15_LLNJ_TO3_CHX.i.m.rslt\
Injection Date: 05-Oct-2015 08:39:30
Spectrum: Tune Spec :Average 73-75(5.97-5.98) Bgrd 63(5.92)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1536	70.00	2072	105.00	385	145.00	216
37.00	9319	72.00	1335	106.00	1096	146.00	540
38.00	8218	73.00	11336	107.00	328	147.00	270
39.00	3381	74.00	45672	111.00	110	148.00	819
40.00	204	75.00	148736	112.00	51	149.00	300
44.00	998	76.00	12240	113.00	50	150.00	378
45.00	1846	77.00	1852	115.00	272	152.00	121
47.00	3289	78.00	1599	116.00	849	153.00	314
48.00	1367	79.00	4663	117.00	1645	154.00	196
49.00	8753	80.00	1633	118.00	983	155.00	943
50.00	43872	81.00	5136	119.00	1433	157.00	683
51.00	13640	82.00	1083	124.00	195	159.00	372
52.00	597	83.00	65	126.00	110	161.00	427
55.00	595	86.00	409	127.00	56	172.00	103
56.00	3219	87.00	16472	128.00	1168	173.00	3069
57.00	5814	88.00	15926	129.00	581	174.00	449984
58.00	304	91.00	915	130.00	1220	175.00	31888
60.00	2152	92.00	8112	131.00	497	176.00	439168
61.00	10770	93.00	12587	135.00	539	177.00	28560
62.00	10638	94.00	37224	137.00	517	178.00	887
63.00	7903	95.00	382528	140.00	224	207.00	123
64.00	676	96.00	24896	141.00	2623	208.00	51
67.00	711	97.00	720	142.00	348	253.00	54
68.00	26776	103.00	58	143.00	2665		
69.00	27048	104.00	1030	144.00	113		

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94728/4

Matrix: Air Lab File ID: 15991_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 12:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.080
75-45-6	Freon 22	86.47	0.50	U	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.093
106-97-8	n-Butane	58.12	0.50	U	0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	5.0	U	5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.046
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.040	U	0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.039
71-43-2	Benzene	78.11	0.20	U	0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-94728/4

Matrix: Air | Lab File ID: 15991_004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	0.20	U	0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.071
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.70	U	0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94728/4

Matrix: Air Lab File ID: 15991_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 12:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-94728/4

Matrix: Air | Lab File ID: 15991_004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.40
75-45-6	Freon 22	86.47	1.8	U	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.19
106-97-8	n-Butane	58.12	1.2	U	1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	12	U	12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.25
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.25	U	0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.18
71-43-2	Benzene	78.11	0.64	U	0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94728/4

Matrix: Air Lab File ID: 15991_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 12:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	0.75	U	0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.31
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.16
1330-20-7	Xylene (total)	106.17	3.0	U	3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94728/4

Matrix: Air Lab File ID: 15991_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 12:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_004.d
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2015 12:59:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-004
Misc. Info.: mb
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 30-Sep-2015 12:14:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		4.324					ND	
2 Dichlorodifluoromethane	85		4.426					ND	
3 Chlorodifluoromethane	51		4.495					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.800					ND	
5 Chloromethane	50		5.009					ND	
6 Butane	43		5.282					ND	
7 Vinyl chloride	62		5.346					ND	
8 Butadiene	54		5.453					ND	
10 Bromomethane	94		6.368					ND	
11 Chloroethane	64		6.667					ND	
12 2-Methylbutane	43		6.758					ND	
13 Vinyl bromide	106		7.175					ND	
14 Trichlorofluoromethane	101		7.288					ND	
16 Pentane	43		7.459					ND	
17 Ethanol	45		7.940					ND	
18 Ethyl ether	59		8.085					ND	
T 15 Methyl Acetate TIC	43		8.501					ND	
19 Acrolein	56		8.577					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.588					ND	
21 1,1-Dichloroethene	96		8.663					ND	
22 Acetone	43		8.935					ND	
23 Carbon disulfide	76		9.160					ND	
24 Isopropyl alcohol	45	9.224	9.219	0.005	94	2363		0.1479	
25 3-Chloro-1-propene	41		9.588					ND	
26 Acetonitrile	41		9.749					ND	
27 Methylene Chloride	49		9.925					ND	
28 2-Methyl-2-propanol	59		10.112					ND	
S 30 1,2-Dichloroethene, Total	61		10.200					ND	
29 Methyl tert-butyl ether	73		10.369					ND	
31 trans-1,2-Dichloroethene	61		10.428					ND	
32 Acrylonitrile	53		10.615					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57		10.851					ND	
34 1,1-Dichloroethane	63		11.428					ND	
35 Vinyl acetate	43		11.471					ND	
T 36 Methyl cyclohexane TIC	55		11.500					ND	
37 cis-1,2-Dichloroethene	96		12.616					ND	
38 2-Butanone (MEK)	72		12.653					ND	
39 Ethyl acetate	88		12.664					ND	
* 40 Chlorobromomethane	128	13.103	13.108	-0.005	69	179082	10.0	10.0	
41 Tetrahydrofuran	42		13.108					ND	
42 Chloroform	83		13.215					ND	
43 Cyclohexane	84		13.509					ND	
44 1,1,1-Trichloroethane	97		13.531					ND	
45 Carbon tetrachloride	117		13.782					ND	
46 Isooctane	57		14.183					ND	
47 Benzene	78		14.253					ND	
48 1,2-Dichloroethane	62		14.419					ND	
49 n-Heptane	43		14.531					ND	
A 51 GRO	1	14.919	(6.748-23.090)		0	3146753		0	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	853654	10.0	10.0	
52 n-Butanol	56		15.291					ND	
53 Trichloroethene	95		15.478					ND	
54 1,2-Dichloropropane	63		16.013					ND	
55 Methyl methacrylate	69		16.099					ND	
56 1,4-Dioxane	88		16.195					ND	
57 Dibromomethane	174		16.259					ND	
58 Dichlorobromomethane	83		16.500					ND	
A 59 TVOC as Toluene	92	16.840	(4.314-29.365)		0	3325535		67.3	
60 cis-1,3-Dichloropropene	75		17.377					ND	
61 4-Methyl-2-pentanone (MIBK	43		17.623					ND	
A 62 C8 Range	1		(17.884-17.984)					ND	
64 n-Octane	43		17.934					ND	
A 63 Toluene Range	92		(17.920-18.000)					ND	
65 Toluene	92		17.960					ND	
66 trans-1,3-Dichloropropene	75		18.490					ND	
67 1,1,2-Trichloroethane	83		18.859					ND	
68 Tetrachloroethene	166		18.987					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
69 2-Hexanone	43		19.260					ND	
71 Chlorodibromomethane	129		19.619					ND	
72 Ethylene Dibromide	107		19.913					ND	
S 73 Xylenes, Total	106		20.100					ND	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	791759	10.0	10.0	
75 Chlorobenzene	112		20.785					ND	
76 Ethylbenzene	91		20.897					ND	
77 n-Nonane	57		20.940					ND	
78 m-Xylene & p-Xylene	106		21.106					ND	
79 o-Xylene	106		21.801					ND	
80 Styrene	104		21.839					ND	
$ 83 4-Bromofluorobenzene	95		22.197				ND	ND	
81 Bromoform	173		22.203					ND	
82 Isopropylbenzene	105		22.352					ND	
84 1,1,2,2-Tetrachloroethane	83		22.898					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	91		22.973					ND	
86 1,2,3-Trichloropropane	75		23.005					ND	
87 n-Decane	57		23.080					ND	
88 4-Ethyltoluene	105		23.144					ND	
89 2-Chlorotoluene	91		23.176					ND	
90 1,3,5-Trimethylbenzene	105		23.235					ND	
91 Alpha Methyl Styrene	118		23.588					ND	
92 tert-Butylbenzene	119		23.722					ND	
93 1,2,4-Trimethylbenzene	105		23.813					ND	
94 sec-Butylbenzene	105		24.059					ND	
95 4-Isopropyltoluene	119		24.268					ND	
96 1,3-Dichlorobenzene	146	24.348	24.337	0.011	87	1612		0.0164	
97 1,4-Dichlorobenzene	146	24.508	24.482	0.026	90	1875		0.0194	M
98 Benzyl chloride	91		24.706					ND	
99 Undecane	57		24.888					ND	
100 n-Butylbenzene	91		24.920					ND	
101 1,2-Dichlorobenzene	146	25.129	25.113	0.016	94	1090		0.0115	
102 Dodecane	57		26.777					ND	
103 1,2,4-Trichlorobenzene	180	28.146	28.135	0.011	79	2088		0.0264	
104 Hexachlorobutadiene	225		28.344					ND	
105 Naphthalene	128		28.767					ND	
106 1,2,3-Trichlorobenzene	180	29.361	29.355	0.006	62	1330		0.0199	M
T 109 1,3-Dichloropropane TIC	1		0.000					ND	
T 108 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 107 Methyl acetylene TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

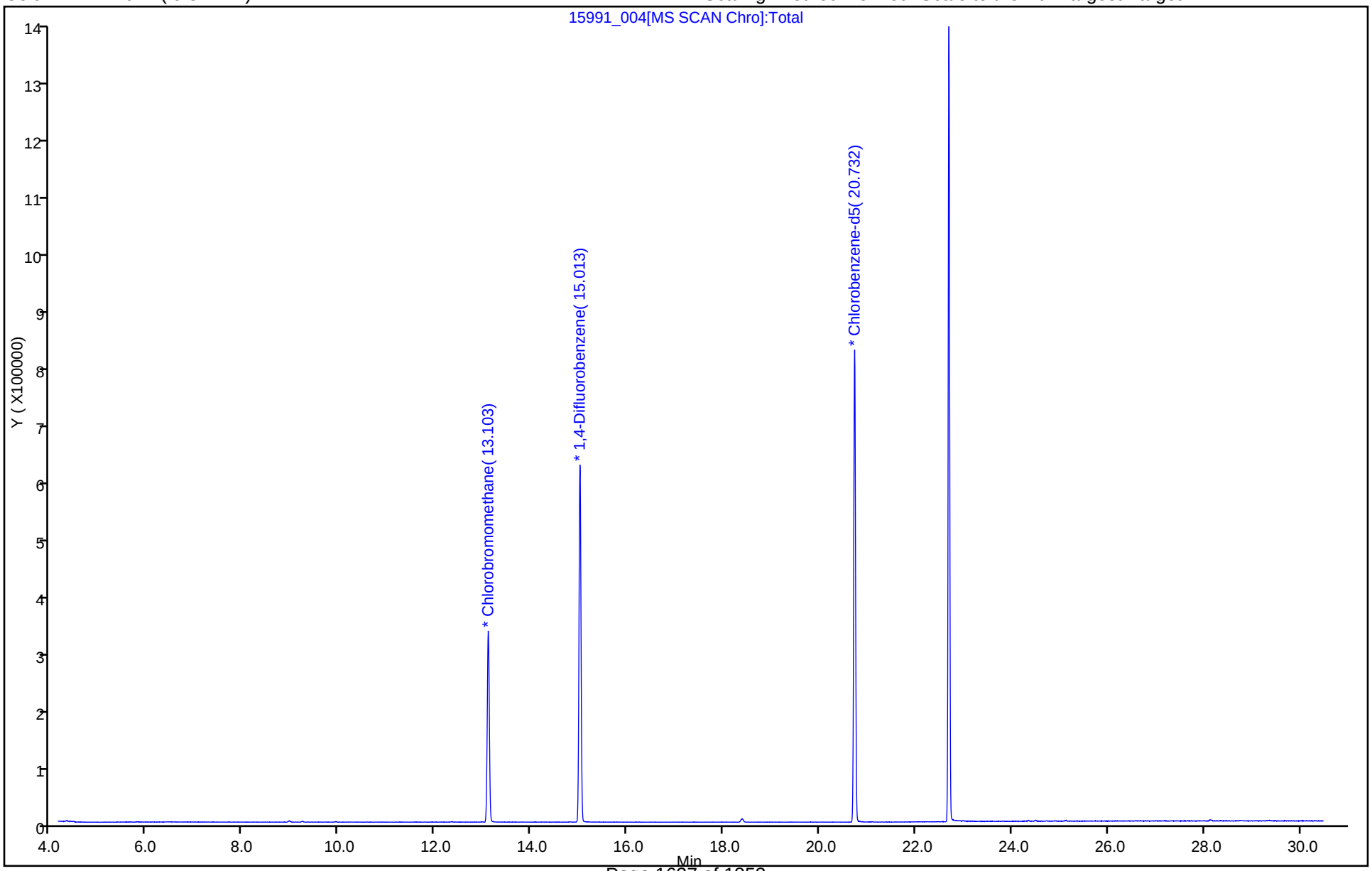
Report Date: 30-Sep-2015 14:16:30 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_004.d

Injection Date:	29-Sep-2015 12:59:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	mb			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

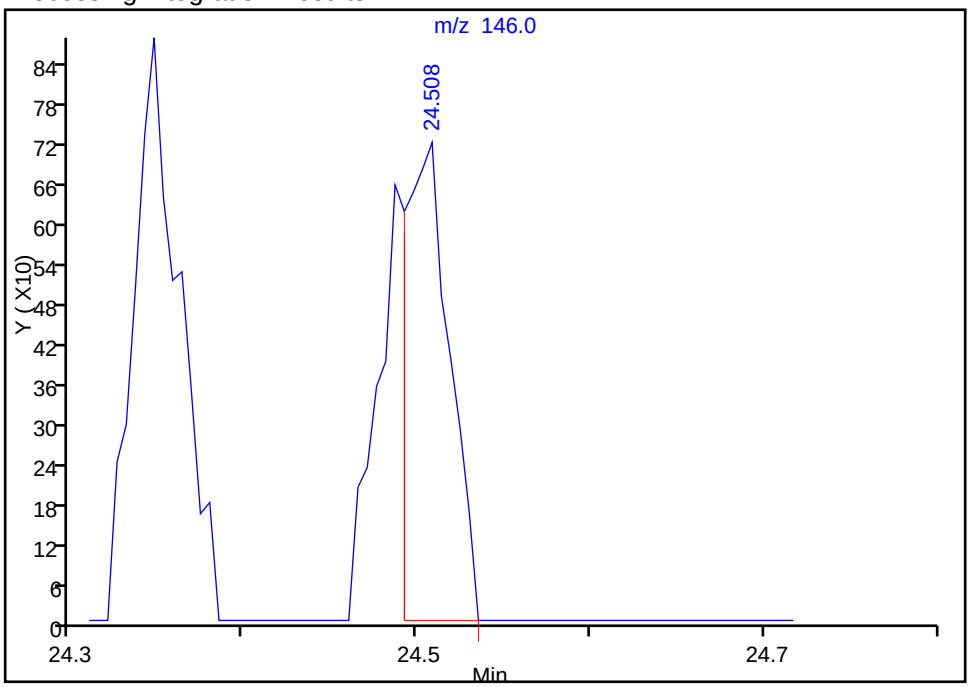
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_004.d				
Injection Date:	29-Sep-2015 12:59:30	Instrument ID:	CHW.i		
Lims ID:	mb				
Client ID:					
Operator ID:	pad	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

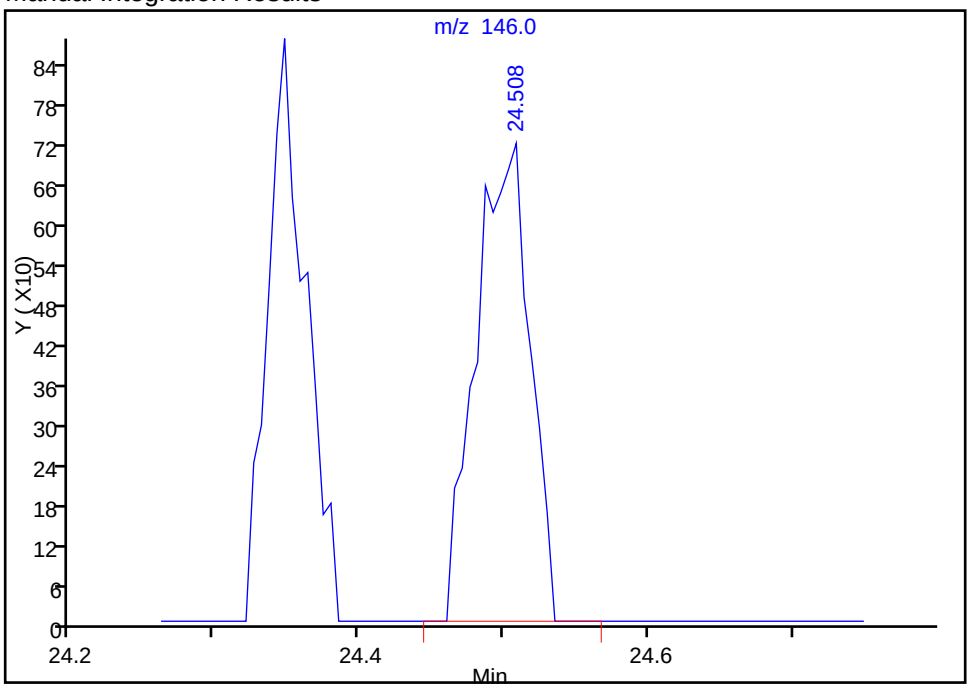
Processing Integration Results

RT: 24.51
Area: 1286
Amount: 0.013294
Amount Units: ppb v/v



Manual Integration Results

RT: 24.51
Area: 1875
Amount: 0.019383
Amount Units: ppb v/v



Reviewer: daiglep, 30-Sep-2015 12:14:10
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94809/5

Matrix: Air Lab File ID: 16024_005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.080
75-45-6	Freon 22	86.47	0.50	U	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.093
106-97-8	n-Butane	58.12	0.50	U	0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	5.0	U	5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.046
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.040	U	0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.039
71-43-2	Benzene	78.11	0.20	U	0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94809/5

Matrix: Air Lab File ID: 16024_005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	0.20	U	0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.071
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.70	U	0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94809/5

Matrix: Air Lab File ID: 16024_005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-94809/5

Matrix: Air | Lab File ID: 16024_005.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/30/2015 14:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94809 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.40
75-45-6	Freon 22	86.47	1.8	U	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.19
106-97-8	n-Butane	58.12	1.2	U	1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	12	U	12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.25
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.25	U	0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.18
71-43-2	Benzene	78.11	0.64	U	0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94809/5

Matrix: Air Lab File ID: 16024_005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	0.75	U	0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.31
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.16
1330-20-7	Xylene (total)	106.17	3.0	U	3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94809/5

Matrix: Air Lab File ID: 16024_005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_005.d
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 30-Sep-2015 14:27:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016024-005
Misc. Info.: 29972-01
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 11:58:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.329					ND	
	2 Dichlorodifluoromethane	85		4.431					ND	
	3 Chlorodifluoromethane	51		4.501					ND	
	4 1,2-Dichloro-1,1,2,2-tetra	85		4.806					ND	
	5 Chloromethane	50		5.009					ND	
	6 Butane	43		5.292					ND	
	7 Vinyl chloride	62		5.357					ND	
	8 Butadiene	54		5.458					ND	
	10 Bromomethane	94		6.373					ND	
	11 Chloroethane	64		6.678					ND	
	12 2-Methylbutane	43		6.764					ND	
	13 Vinyl bromide	106		7.181					ND	
	14 Trichlorofluoromethane	101		7.299					ND	
	16 Pentane	43		7.464					ND	
	17 Ethanol	45		7.946					ND	
	18 Ethyl ether	59		8.090					ND	
T	15 Methyl Acetate TIC	43		8.501					ND	
	19 Acrolein	56		8.583					ND	
	20 1,1,2-Trichloro-1,2,2-trif	101		8.599					ND	
	21 1,1-Dichloroethene	96		8.668					ND	
	22 Acetone	43		8.941					ND	
	23 Carbon disulfide	76		9.171					ND	
	24 Isopropyl alcohol	45	9.240	9.219	0.021	97	2546		0.1554	
	25 3-Chloro-1-propene	41		9.588					ND	
	26 Acetonitrile	41		9.759					ND	
	27 Methylene Chloride	49		9.931					ND	
	28 2-Methyl-2-propanol	59		10.113					ND	
S	30 1,2-Dichloroethene, Total	61		10.200					ND	
	29 Methyl tert-butyl ether	73		10.375					ND	
	31 trans-1,2-Dichloroethene	61		10.434					ND	
	32 Acrylonitrile	53		10.615					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57		10.856					ND	
34 1,1-Dichloroethane	63		11.429					ND	
35 Vinyl acetate	43		11.471					ND	
T 36 Methyl cyclohexane TIC	55		11.500					ND	
37 cis-1,2-Dichloroethene	96		12.616					ND	
38 2-Butanone (MEK)	72		12.654					ND	
39 Ethyl acetate	88		12.659					ND	
41 Tetrahydrofuran	42		13.108					ND	
* 40 Chlorobromomethane	128	13.103	13.114	-0.011	78	183666	10.0	10.0	
42 Chloroform	83		13.215					ND	
43 Cyclohexane	84		13.510					ND	
44 1,1,1-Trichloroethane	97		13.531					ND	
45 Carbon tetrachloride	117		13.782					ND	
46 Isooctane	57		14.184					ND	
47 Benzene	78		14.253					ND	
48 1,2-Dichloroethane	62		14.419					ND	
49 n-Heptane	43		14.531					ND	
A 51 GRO	1	14.919	(6.754-23.085)		0	3194246		0	
* 50 1,4-Difluorobenzene	114	15.013	15.018	-0.005	92	883490	10.0	10.0	
52 n-Butanol	56		15.291					ND	
53 Trichloroethene	95		15.478					ND	
54 1,2-Dichloropropane	63		16.024					ND	
55 Methyl methacrylate	69		16.099					ND	
56 1,4-Dioxane	88		16.190					ND	
57 Dibromomethane	174		16.259					ND	
58 Dichlorobromomethane	83		16.500					ND	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	3376620		66.1	
60 cis-1,3-Dichloropropene	75		17.377					ND	
61 4-Methyl-2-pentanone (MIBK	43		17.624					ND	
64 n-Octane	43		17.934					ND	
A 62 C8 Range	1		(17.884-17.984)					ND	
65 Toluene	92		17.955					ND	
A 63 Toluene Range	92	17.955	(17.915-17.995)		0	24981		0.5277	
66 trans-1,3-Dichloropropene	75		18.490					ND	
67 1,1,2-Trichloroethane	83		18.865					ND	
68 Tetrachloroethene	166		18.988					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
69 2-Hexanone	43		19.261					ND	
71 Chlorodibromomethane	129		19.619					ND	
72 Ethylene Dibromide	107		19.913					ND	
S 73 Xylenes, Total	106		20.100					ND	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	82	818365	10.0	10.0	
75 Chlorobenzene	112		20.785					ND	
76 Ethylbenzene	91		20.898					ND	
77 n-Nonane	57		20.940					ND	
78 m-Xylene & p-Xylene	106		21.106					ND	
79 o-Xylene	106		21.796					ND	
80 Styrene	104		21.839					ND	
$ 83 4-Bromofluorobenzene	95		22.192				ND	ND	
81 Bromoform	173		22.203					ND	
82 Isopropylbenzene	105		22.347					ND	
84 1,1,2,2-Tetrachloroethane	83		22.898					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	91		22.973					ND	
86 1,2,3-Trichloropropane	75		23.005					ND	
87 n-Decane	57		23.075					ND	
88 4-Ethyltoluene	105		23.139					ND	
89 2-Chlorotoluene	91		23.177					ND	
90 1,3,5-Trimethylbenzene	105		23.235					ND	
91 Alpha Methyl Styrene	118		23.588					ND	
92 tert-Butylbenzene	119		23.722					ND	
93 1,2,4-Trimethylbenzene	105		23.813					ND	
94 sec-Butylbenzene	105		24.059					ND	
95 4-Isopropyltoluene	119		24.262					ND	
96 1,3-Dichlorobenzene	146	24.353	24.332	0.021	91	1836		0.0181	M
97 1,4-Dichlorobenzene	146	24.498	24.482	0.016	92	2066		0.0207	
98 Benzyl chloride	91		24.707					ND	
99 Undecane	57		24.888					ND	
100 n-Butylbenzene	91		24.921					ND	
101 1,2-Dichlorobenzene	146	25.124	25.113	0.011	92	1546		0.0158	
102 Dodecane	57		26.777					ND	
103 1,2,4-Trichlorobenzene	180	28.152	28.130	0.022	88	2340		0.0287	
104 Hexachlorobutadiene	225		28.344					ND	
105 Naphthalene	128		28.767					ND	
106 1,2,3-Trichlorobenzene	180	29.361	29.355	0.006	74	1395		0.0201	M
T 107 Methyl acetylene TIC	1		0.000					ND	
T 108 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 109 1,3-Dichloropropane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

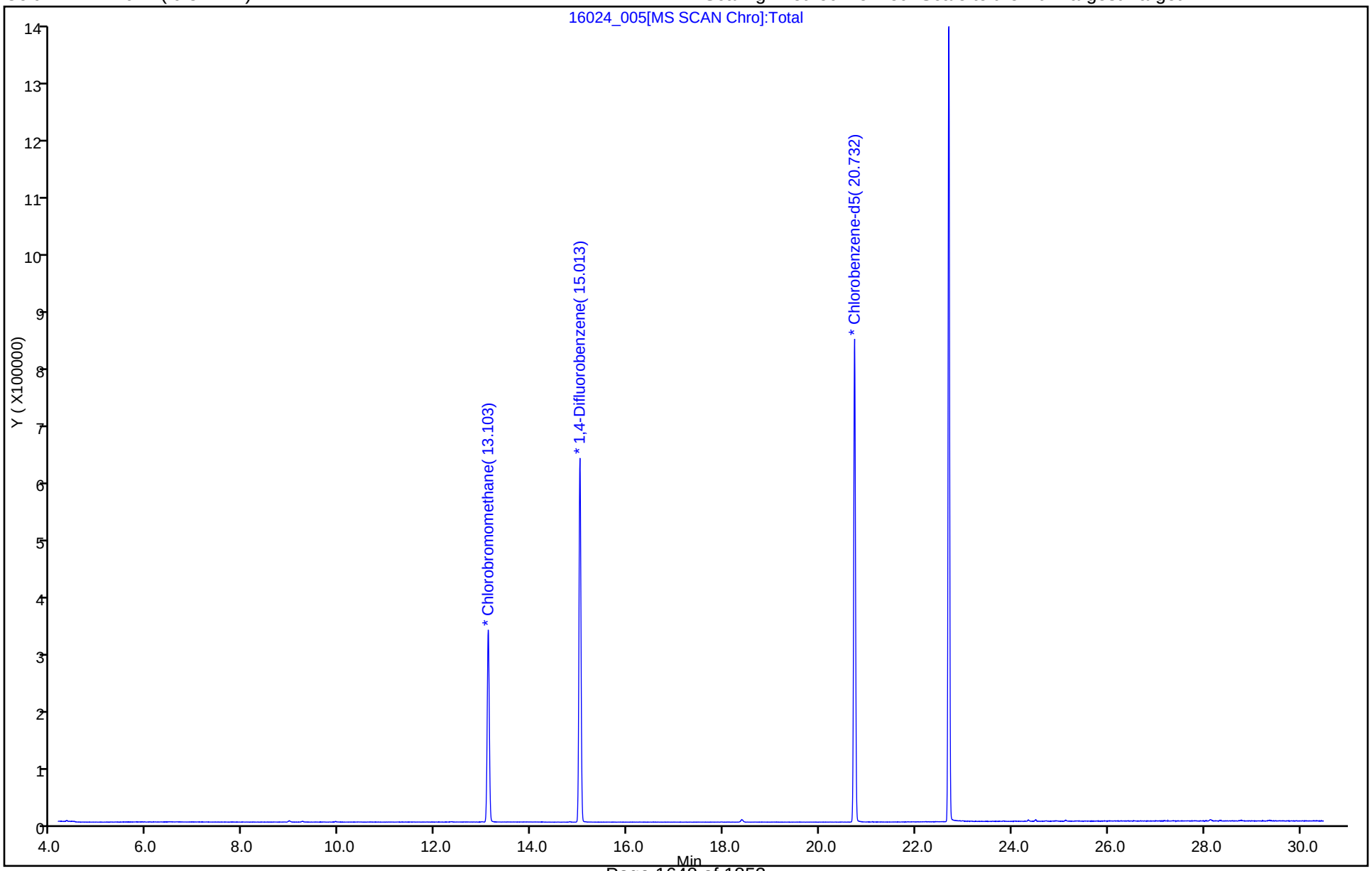
Report Date: 01-Oct-2015 12:53:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_005.d

Injection Date:	30-Sep-2015 14:27:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

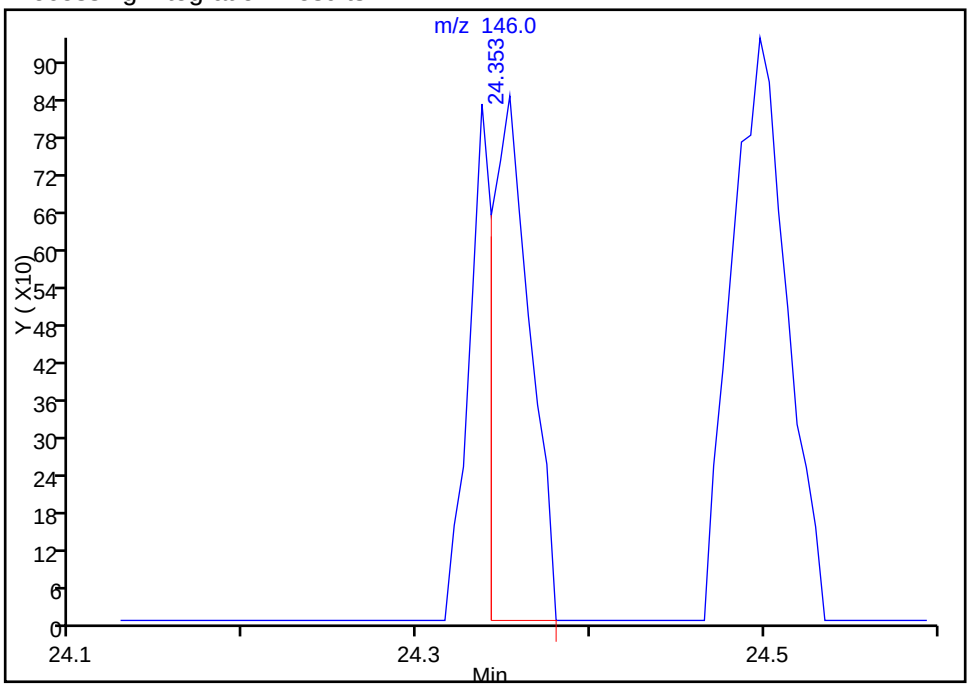
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_005.d				
Injection Date:	30-Sep-2015 14:27:30	Instrument ID:	CHW.i		
Lims ID:	mb				
Client ID:					
Operator ID:	pad	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,3-Dichlorobenzene, CAS: 541-73-1

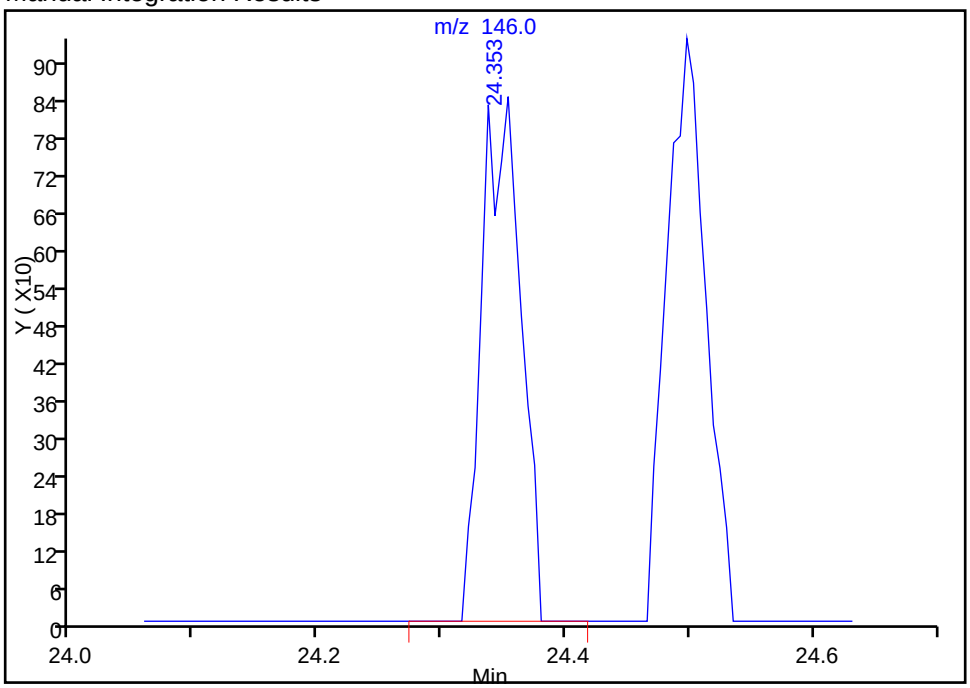
Processing Integration Results

RT: 24.35
Area: 1273
Amount: 0.012563
Amount Units: ppb v/v



Manual Integration Results

RT: 24.35
Area: 1836
Amount: 0.018120
Amount Units: ppb v/v



Reviewer: daiglep, 01-Oct-2015 11:58:39
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-95027/4

Matrix: Air | Lab File ID: 16087_04.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 11:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.080
75-45-6	Freon 22	86.47	0.50	U	0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.038
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.093
106-97-8	n-Butane	58.12	0.50	U	0.50	0.078
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.032
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.089
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.056
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.038
76-13-1	Freon TF	187.38	0.20	U	0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.036
67-64-1	Acetone	58.08	5.0	U	5.0	0.86
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.98
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.043
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.068
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.043
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.035
67-66-3	Chloroform	119.38	0.20	U	0.20	0.082
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.046
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.039
56-23-5	Carbon tetrachloride	153.81	0.040	U	0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.039
71-43-2	Benzene	78.11	0.20	U	0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-95027/4

Matrix: Air | Lab File ID: 16087_04.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 11:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.039
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.027
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.56
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.050
108-88-3	Toluene	92.14	0.20	U	0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.039
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.057
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.039
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.049
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.033
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.071
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.037
1330-20-7	Xylene (total)	106.17	0.70	U	0.70	0.037
100-42-5	Styrene	104.15	0.20	U	0.20	0.043
75-25-2	Bromoform	252.75	0.20	U	0.20	0.056
98-82-8	Cumene	120.19	0.20	U	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.044
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.043
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.039
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.033
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.043
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-95027/4

Matrix: Air Lab File ID: 16087_04.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 11:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.053
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.082
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-95027/4

Matrix: Air | Lab File ID: 16087_04.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 11:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.40
75-45-6	Freon 22	86.47	1.8	U	1.8	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.27
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.19
106-97-8	n-Butane	58.12	1.2	U	1.2	0.19
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.082
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.20
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.22
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.22
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.21
76-13-1	Freon TF	187.38	1.5	U	1.5	0.57
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	12	U	12	2.0
67-63-0	Isopropyl alcohol	60.10	12	U	12	2.4
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.13
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.21
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.63
75-65-0	tert-Butyl alcohol	74.12	15	U	15	2.6
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.32
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.17
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.19
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.10
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.15
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.14
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	0.14
67-66-3	Chloroform	119.38	0.98	U	0.98	0.40
109-99-9	Tetrahydrofuran	72.11	15	U	15	4.1
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.25
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.13
56-23-5	Carbon tetrachloride	153.81	0.25	U	0.25	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.18
71-43-2	Benzene	78.11	0.64	U	0.64	0.13
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.17

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-95027/4

Matrix: Air | Lab File ID: 16087_04.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/05/2015 11:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 95027 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.16
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.12
123-91-1	1,4-Dioxane	88.11	18	U	18	2.0
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.10
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.20
108-88-3	Toluene	92.14	0.75	U	0.75	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.15
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.21
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.16
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.23
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.37
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.30
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.14
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.31
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.16
1330-20-7	Xylene (total)	106.17	3.0	U	3.0	0.16
100-42-5	Styrene	104.15	0.85	U	0.85	0.18
75-25-2	Bromoform	252.75	2.1	U	2.1	0.58
98-82-8	Cumene	120.19	0.98	U	0.98	0.15
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.30
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.21
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.22
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.19
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.17
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.24
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.21
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.24
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.33
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.34

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-95027/4

Matrix: Air Lab File ID: 16087_04.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 11:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.27
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.26
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.33
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.50
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.87
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.30

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_04.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2015 11:08:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-004
Misc. Info.: mb
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 05-Oct-2015 13:37:12 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: desjardinsb Date: 05-Oct-2015 13:37:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		3.103					ND	
2 Dichlorodifluoromethane	85		3.172					ND	
3 Chlorodifluoromethane	51		3.226					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440					ND	
5 Chloromethane	50		3.579					ND	
6 Butane	43		3.771					ND	
7 Vinyl chloride	62		3.814					ND	
8 Butadiene	54		3.889					ND	
9 Bromomethane	94		4.558					ND	
10 Chloroethane	64		4.788					ND	
11 2-Methylbutane	43		4.852					ND	
12 Vinyl bromide	106		5.168					ND	
13 Trichlorofluoromethane	101		5.259					ND	
14 Pentane	43		5.392					ND	
15 Ethanol	45		5.868					ND	
16 Ethyl ether	59		5.922					ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.296					ND	
17 Acrolein	56		6.296					ND	
20 1,1-Dichloroethene	96		6.350					ND	
21 Acetone	43		6.612					ND	
22 Carbon disulfide	76		6.746					ND	
23 Isopropyl alcohol	45		6.922					ND	
24 3-Chloro-1-propene	41		7.120					ND	
25 Acetonitrile	41		7.275					ND	
26 Methylene Chloride	49	7.414	7.414	0.000	77	1624		0.1251	
T 27 Methyl Acetate TIC	43		7.568					ND	
28 2-Methyl-2-propanol	59		7.709					ND	
29 Methyl tert-butyl ether	73		7.826					ND	
30 trans-1,2-Dichloroethene	61		7.837					ND	
31 Acrylonitrile	53		8.014					ND	
32 Hexane	57		8.212					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63		8.709					ND	
34 Vinyl acetate	43		8.784					ND	
35 cis-1,2-Dichloroethene	96		9.811					ND	
36 2-Butanone (MEK)	72		9.881					ND	
37 Ethyl acetate	88		9.907					ND	
S 38 1,2-Dichloroethene, Total	61		10.000					ND	
* 40 Chlorobromomethane	128	10.277	10.282	-0.005	72	176112	10.0	10.0	
39 Tetrahydrofuran	42		10.298					ND	
41 Chloroform	83		10.410					ND	
42 Cyclohexane	84		10.651					ND	
43 1,1,1-Trichloroethane	97		10.683					ND	
44 Carbon tetrachloride	117		10.929					ND	
45 Isooctane	57		11.368					ND	
46 Benzene	78		11.411					ND	
47 1,2-Dichloroethane	62		11.609					ND	
48 n-Heptane	43		11.753					ND	
T 49 Methyl cyclohexane TIC	55		11.965					ND	
* 50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	91	980825	10.0	10.0	
51 n-Butanol	56		12.711					ND	
52 Trichloroethene	95		12.743					ND	
53 1,2-Dichloropropane	63		13.331					ND	
54 Methyl methacrylate	69		13.497					ND	
55 1,4-Dioxane	88		13.572					ND	
56 Dibromomethane	174		13.604					ND	
57 Dichlorobromomethane	83		13.904					ND	
58 cis-1,3-Dichloropropene	75		14.872					ND	
A 60 TVOC as Toluene	1		(3.065-26.866)					ND	
A 59 Total Hydrocarbons	1	14.966	(3.065-26.866)		0	234763			NC
61 4-Methyl-2-pentanone (MIBK	43		15.193					ND	
62 Toluene	92		15.476					ND	
A 63 Toluene Range	1	15.476	(15.466-15.486)		0	1410			NC
66 n-Octane	43		15.514					ND	
A 64 C8 Range	1		(15.529-15.509)					ND	
A 65 GRO	1	15.514	(15.514-15.514)		0	1410			0
67 trans-1,3-Dichloropropene	75		16.092					ND	
68 1,1,2-Trichloroethane	83		16.482					ND	
69 Tetrachloroethene	166		16.579					ND	
70 2-Hexanone	43		16.953					ND	
71 Chlorodibromomethane	129		17.263					ND	
72 Ethylene Dibromide	107		17.547					ND	
* 73 Chlorobenzene-d5	117	18.446	18.446	0.000	81	989408	10.0	10.0	
74 Chlorobenzene	112		18.510					ND	
75 Ethylbenzene	91		18.649					ND	
76 n-Nonane	57		18.751					ND	
77 m-Xylene & p-Xylene	106		18.906					ND	
78 o-Xylene	106		19.719					ND	
79 Styrene	104		19.767					ND	
S 80 Xylenes, Total	106		20.000					ND	
81 Bromoform	173		20.179					ND	
82 Isopropylbenzene	105		20.355					ND	
* 83 4-Bromofluorobenzene	95	20.708	20.714	-0.006	96	604276	10.0	10.0	
T 84 1,2-Dibromo-3-Chloropropan	75		20.846					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 1,1,2,2-Tetrachloroethane	83		20.981					ND	
86 N-Propylbenzene	91		21.035					ND	
87 1,2,3-Trichloropropane	75		21.078					ND	
88 n-Decane	57		21.179					ND	
89 4-Ethyltoluene	105		21.217					ND	
90 2-Chlorotoluene	91		21.238					ND	
91 1,3,5-Trimethylbenzene	105		21.318					ND	
92 Alpha Methyl Styrene	118		21.671					ND	
93 tert-Butylbenzene	119		21.789					ND	
94 1,2,4-Trimethylbenzene	105		21.880					ND	
95 sec-Butylbenzene	105		22.105					ND	
96 4-Isopropyltoluene	119		22.297					ND	
97 1,3-Dichlorobenzene	146		22.346					ND	
98 1,4-Dichlorobenzene	146		22.485					ND	
99 Benzyl chloride	91		22.688					ND	
101 n-Butylbenzene	91		22.886					ND	
100 Undecane	57		22.886					ND	
102 1,2-Dichlorobenzene	146		23.041					ND	
103 Dodecane	57		24.534					ND	
104 1,2,4-Trichlorobenzene	180	25.673	25.673	0.000	78	807		0.0111	
105 Hexachlorobutadiene	225		25.855					ND	
106 Naphthalene	128	26.197	26.197	0.000	1	1863		0.0134	
107 1,2,3-Trichlorobenzene	180	26.716	26.706	0.010	1	994		0.0148	
T 117 1,3-Dichloropropane TIC	1		0.000					ND	
T 109 Methyl acetylene TIC	1		0.000					ND	
T 108 1,1,1,2-Tetrachloroethane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

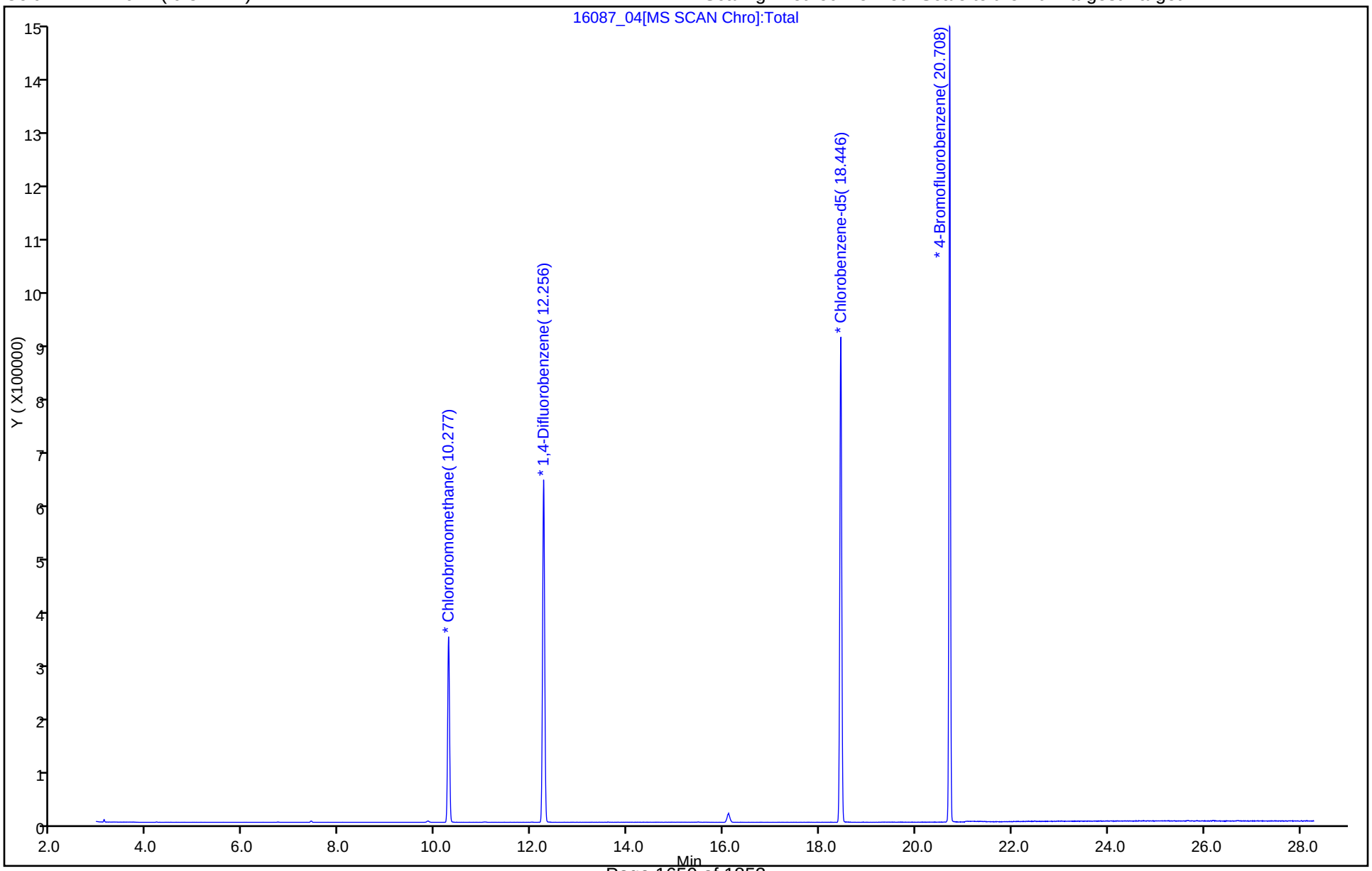
Report Date: 05-Oct-2015 13:37:13 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_04.D

Injection Date:	05-Oct-2015 11:08:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	mb			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29972-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 200-94728/3

Matrix: Air | Lab File ID: 15991_003.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/29/2015 12:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94728 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	9.10		0.50	0.080
75-45-6	Freon 22	86.47	8.77		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	10.1		0.20	0.038
74-87-3	Chloromethane	50.49	8.36		0.50	0.093
106-97-8	n-Butane	58.12	8.63		0.50	0.078
75-01-4	Vinyl chloride	62.50	8.87		0.040	0.032
106-99-0	1,3-Butadiene	54.09	8.43		0.20	0.089
74-83-9	Bromomethane	94.94	8.71		0.20	0.056
75-00-3	Chloroethane	64.52	9.16		0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	9.77		0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	9.33		0.20	0.038
76-13-1	Freon TF	187.38	9.49		0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	9.92		0.20	0.036
67-64-1	Acetone	58.08	9.30		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	8.81		5.0	0.98
75-15-0	Carbon disulfide	76.14	10.7		0.50	0.043
107-05-1	3-Chloropropene	76.53	9.14		0.50	0.068
75-09-2	Methylene Chloride	84.93	8.94		0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	9.27		5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	10.4		0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	10.3		0.20	0.043
110-54-3	n-Hexane	86.17	11.0		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	9.64		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	9.13		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	9.76		0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	20.1		0.40	0.035
67-66-3	Chloroform	119.38	9.43		0.20	0.082
109-99-9	Tetrahydrofuran	72.11	9.59		5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	9.66		0.20	0.046
110-82-7	Cyclohexane	84.16	10.5		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	9.92		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	10.2		0.20	0.039
71-43-2	Benzene	78.11	9.69		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	9.54		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-94728/3

Matrix: Air Lab File ID: 15991_003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 12:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	10.1		0.20	0.040
79-01-6	Trichloroethene	131.39	9.82		0.040	0.039
80-62-6	Methyl methacrylate	100.12	10.1		0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	9.11		0.20	0.027
123-91-1	1,4-Dioxane	88.11	9.77		5.0	0.56
75-27-4	Bromodichloromethane	163.83	9.11		0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	10.4		0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	9.90		0.50	0.050
108-88-3	Toluene	92.14	9.76		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	10.3		0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	9.72		0.20	0.039
127-18-4	Tetrachloroethene	165.83	10.1		0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.69		0.50	0.057
124-48-1	Dibromochloromethane	208.29	9.49		0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	9.99		0.20	0.039
108-90-7	Chlorobenzene	112.56	9.77		0.20	0.049
100-41-4	Ethylbenzene	106.17	10.5		0.20	0.033
179601-23-1	m,p-Xylene	106.17	21.0		0.50	0.071
95-47-6	Xylene, o-	106.17	11.0		0.20	0.037
1330-20-7	Xylene (total)	106.17	32.0		0.70	0.037
100-42-5	Styrene	104.15	10.9		0.20	0.043
75-25-2	Bromoform	252.75	9.90		0.20	0.056
98-82-8	Cumene	120.19	10.8		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	10.0		0.20	0.044
103-65-1	n-Propylbenzene	120.19	10.7		0.20	0.043
622-96-8	4-Ethyltoluene	120.20	10.9		0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	10.6		0.20	0.039
95-49-8	2-Chlorotoluene	126.59	10.1		0.20	0.033
98-06-6	tert-Butylbenzene	134.22	10.8		0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	10.8		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	10.8		0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	11.2		0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	10.5		0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	10.7		0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-94728/3

Matrix: Air Lab File ID: 15991_003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/29/2015 12:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94728 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	10.1		0.20	0.053
104-51-8	n-Butylbenzene	134.22	10.3		0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	10.6		0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	10.7		0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	11.3		0.20	0.082
91-20-3	Naphthalene	128.17	9.29		0.50	0.057

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_003.d
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2015 12:10:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015991-003
Misc. Info.: lcs
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 30-Sep-2015 14:16:24 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: daiglep Date: 29-Sep-2015 12:57:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.324	4.324	0.000	97	81480	10.0	8.44	
2 Dichlorodifluoromethane	85	4.426	4.426	0.000	99	583941	10.0	9.10	
3 Chlorodifluoromethane	51	4.501	4.495	0.006	95	226776	10.0	8.77	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.800	4.800	0.000	97	558863	10.0	10.1	
5 Chloromethane	50	5.009	5.009	0.000	98	104863	10.0	8.36	
6 Butane	43	5.287	5.282	0.005	96	157561	10.0	8.63	
7 Vinyl chloride	62	5.346	5.346	0.000	98	130645	10.0	8.87	
8 Butadiene	54	5.453	5.453	0.000	93	85233	10.0	8.43	
10 Bromomethane	94	6.373	6.368	0.005	98	164802	10.0	8.71	
9 BFB									
11 Chloroethane	64	6.678	6.667	0.011	99	89460	10.0	9.16	
12 2-Methylbutane	43	6.764	6.758	0.006	86	151974	10.0	10.2	
13 Vinyl bromide	106	7.170	7.175	-0.005	98	227550	10.0	9.77	
14 Trichlorofluoromethane	101	7.293	7.288	0.005	98	679903	10.0	9.33	
16 Pentane	43	7.464	7.459	0.005	99	225133	10.0	10.3	
17 Ethanol	45	7.946	7.940	0.006	99	81454	15.0	13.2	
18 Ethyl ether	59	8.085	8.085	0.000	90	113930	10.0	10.4	
19 Acrolein	56	8.577	8.577	0.000	96	43788	10.0	10.9	
20 1,1,2-Trichloro-1,2,2-trif	101	8.593	8.588	0.005	93	447853	10.0	9.49	
21 1,1-Dichloroethene	96	8.668	8.663	0.005	94	207386	10.0	9.92	
22 Acetone	43	8.941	8.935	0.006	98	210159	10.0	9.30	
23 Carbon disulfide	76	9.160	9.160	0.000	98	536894	10.0	10.7	
24 Isopropyl alcohol	45	9.208	9.219	-0.011	99	158873	10.0	8.81	
25 3-Chloro-1-propene	41	9.594	9.588	0.006	93	133985	10.0	9.14	
26 Acetonitrile	41	9.759	9.749	0.010	99	78741	10.0	9.63	
27 Methylene Chloride	49	9.931	9.925	0.006	80	148262	10.0	8.94	
28 2-Methyl-2-propanol	59	10.113	10.112	0.001	94	295458	10.0	9.27	
S 30 1,2-Dichloroethene, Total	61				0		20.0	20.1	
29 Methyl tert-butyl ether	73	10.369	10.369	0.000	95	576285	10.0	10.4	
31 trans-1,2-Dichloroethene	61	10.428	10.428	0.000	90	259258	10.0	10.3	
32 Acrylonitrile	53	10.615	10.615	0.000	93	95443	10.0	9.45	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57	10.851	10.851	0.000	89	243071	10.0	11.0	
34 1,1-Dichloroethane	63	11.429	11.428	0.001	99	313072	10.0	9.64	
35 Vinyl acetate	43	11.471	11.471	0.000	99	288299	10.0	9.10	
37 cis-1,2-Dichloroethene	96	12.616	12.616	0.000	94	229019	10.0	9.76	
38 2-Butanone (MEK)	72	12.648	12.653	-0.005	98	95471	10.0	9.13	
39 Ethyl acetate	88	12.664	12.664	0.000	95	19827	10.0	10.3	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	86	202108	10.0	10.0	
41 Tetrahydrofuran	42	13.108	13.108	0.000	87	138753	10.0	9.59	
42 Chloroform	83	13.215	13.215	0.000	95	469746	10.0	9.43	
43 Cyclohexane	84	13.510	13.509	0.001	89	286874	10.0	10.5	
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	93	563394	10.0	9.66	
45 Carbon tetrachloride	117	13.782	13.782	0.000	97	636553	10.0	9.92	
46 Isooctane	57	14.178	14.183	-0.005	98	750143	10.0	10.2	
47 Benzene	78	14.253	14.253	0.000	93	616554	10.0	9.69	
48 1,2-Dichloroethane	62	14.419	14.419	0.000	99	291268	10.0	9.54	
49 n-Heptane	43	14.531	14.531	0.000	82	231949	10.0	10.1	
A 51 GRO	1	14.919	(6.748-23.090)		0	84387639	10.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	939576	10.0	10.0	
52 n-Butanol	56	15.296	15.291	0.005	84	85198	10.0	10.4	
53 Trichloroethene	95	15.478	15.478	0.000	95	320550	10.0	9.82	
54 1,2-Dichloropropane	63	16.019	16.013	0.006	89	184839	10.0	9.11	
55 Methyl methacrylate	69	16.099	16.099	0.000	91	219668	10.0	10.1	
56 1,4-Dioxane	88	16.190	16.195	-0.005	85	108868	10.0	9.77	
57 Dibromomethane	174	16.259	16.259	0.000	86	411986	10.0	9.51	
58 Dichlorobromomethane	83	16.500	16.500	0.000	98	505134	10.0	9.11	
A 59 TVOC as Toluene	92	16.840	(4.314-29.365)		0	160551167	10.0	2953.8	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	344647	10.0	10.4	
61 4-Methyl-2-pentanone (MIBK	43	17.624	17.623	0.001	91	330748	10.0	9.90	
A 62 C8 Range	1	17.934	(17.884-17.984)		0	3496012	NC	NC	
64 n-Octane	43	17.939	17.934	0.005	79	325471	10.0	10.7	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	3496012	10.0	68.9	E
65 Toluene	92	17.955	17.960	-0.005	94	495016	10.0	9.76	
66 trans-1,3-Dichloropropene	75	18.485	18.490	-0.005	94	391959	10.0	10.3	
67 1,1,2-Trichloroethane	83	18.859	18.859	0.000	94	235971	10.0	9.72	
68 Tetrachloroethene	166	18.988	18.987	0.001	95	615956	10.0	10.1	
69 2-Hexanone	43	19.261	19.260	0.001	99	328511	10.0	9.69	
71 Chlorodibromomethane	129	19.619	19.619	0.000	98	659132	10.0	9.49	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	517980	10.0	10.0	
S 73 Xylenes, Total	106				0		30.0	32.0	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	83	876804	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	799406	10.0	9.77	
76 Ethylbenzene	91	20.898	20.897	0.001	96	1188602	10.0	10.5	
77 n-Nonane	57	20.940	20.940	0.000	83	391232	10.0	10.5	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	963820	20.0	21.0	
79 o-Xylene	106	21.802	21.801	0.001	99	497659	10.0	11.0	
80 Styrene	104	21.839	21.839	0.000	95	770539	10.0	10.9	
$ 83 4-Bromofluorobenzene	95	22.198	22.197	0.001	26	961	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	745481	10.0	9.90	
82 Isopropylbenzene	105	22.347	22.352	-0.005	95	1498988	10.0	10.8	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	699867	10.0	10.0	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	1777692	10.0	10.7	
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	93	534029	10.0	9.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 n-Decane	57	23.075	23.080	-0.005	92	579971	10.0	10.1	
88 4-Ethyltoluene	105	23.144	23.144	0.000	97	1667372	10.0	10.9	
89 2-Chlorotoluene	91	23.177	23.176	0.001	95	1299853	10.0	10.1	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	93	1406544	10.0	10.6	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	92	772135	10.0	11.8	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	1417753	10.0	10.8	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1411430	10.0	10.8	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	1978188	10.0	10.8	
95 4-Isopropyltoluene	119	24.268	24.268	0.000	97	1817440	10.0	11.2	
96 1,3-Dichlorobenzene	146	24.332	24.337	-0.005	94	1140487	10.0	10.5	
97 1,4-Dichlorobenzene	146	24.487	24.482	0.005	97	1146355	10.0	10.7	
98 Benzyl chloride	91	24.707	24.706	0.001	100	1149455	10.0	10.1	
99 Undecane	57	24.888	24.888	0.000	88	635123	10.0	10.5	
100 n-Butylbenzene	91	24.926	24.920	0.006	97	1426617	10.0	10.3	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1106700	10.0	10.6	
102 Dodecane	57	26.777	26.777	0.000	96	576300	10.0	10.5	
103 1,2,4-Trichlorobenzene	180	28.130	28.135	-0.005	93	937074	10.0	10.7	
104 Hexachlorobutadiene	225	28.344	28.344	0.000	97	937556	10.0	11.3	
105 Naphthalene	128	28.767	28.767	0.000	99	1539934	10.0	9.29	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	96	797687	10.0	10.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

ATTO15LCSW_00522	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

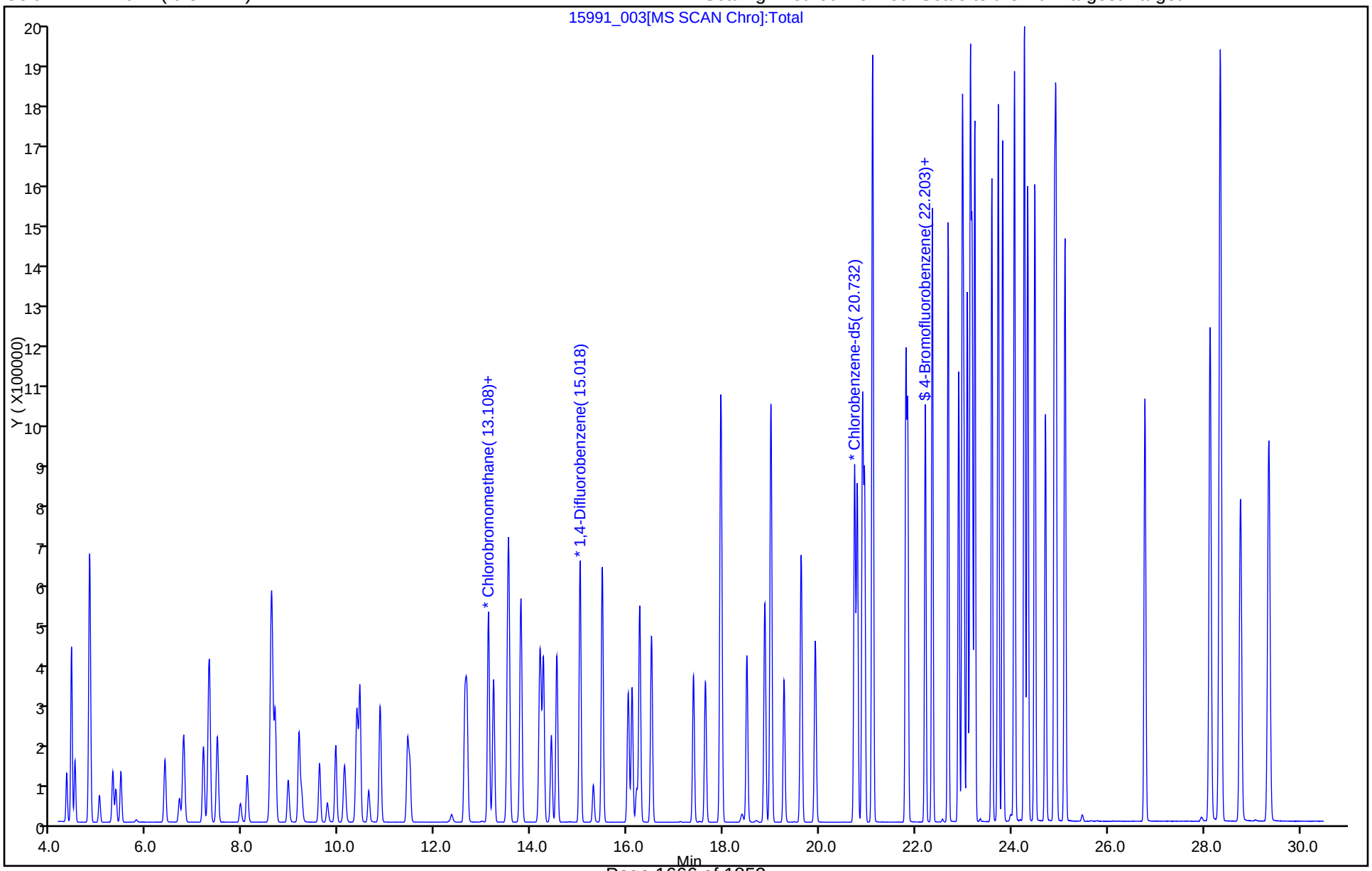
Report Date: 30-Sep-2015 14:16:28 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150929-15991.b\15991_003.d

Injection Date:	29-Sep-2015 12:10:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	lcs			Worklist Smp#:	3
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-94809/4

Matrix: Air Lab File ID: 16024_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	9.49		0.50	0.080
75-45-6	Freon 22	86.47	9.22		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	10.5		0.20	0.038
74-87-3	Chloromethane	50.49	8.64		0.50	0.093
106-97-8	n-Butane	58.12	8.77		0.50	0.078
75-01-4	Vinyl chloride	62.50	9.07		0.040	0.032
106-99-0	1,3-Butadiene	54.09	8.68		0.20	0.089
74-83-9	Bromomethane	94.94	9.14		0.20	0.056
75-00-3	Chloroethane	64.52	9.15		0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	9.88		0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	9.56		0.20	0.038
76-13-1	Freon TF	187.38	9.65		0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	10.0		0.20	0.036
67-64-1	Acetone	58.08	9.62		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	8.85		5.0	0.98
75-15-0	Carbon disulfide	76.14	10.8		0.50	0.043
107-05-1	3-Chloropropene	76.53	9.35		0.50	0.068
75-09-2	Methylene Chloride	84.93	9.12		0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	9.21		5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	10.2		0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	10.6		0.20	0.043
110-54-3	n-Hexane	86.17	11.3		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	9.80		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	9.04		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	9.96		0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	20.6		0.40	0.035
67-66-3	Chloroform	119.38	9.72		0.20	0.082
109-99-9	Tetrahydrofuran	72.11	9.67		5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	10.0		0.20	0.046
110-82-7	Cyclohexane	84.16	10.7		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	10.2		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	10.6		0.20	0.039
71-43-2	Benzene	78.11	9.96		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	10.0		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-94809/4

Matrix: Air Lab File ID: 16024_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	10.6		0.20	0.040
79-01-6	Trichloroethene	131.39	10.3		0.040	0.039
80-62-6	Methyl methacrylate	100.12	10.2		0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	9.64		0.20	0.027
123-91-1	1,4-Dioxane	88.11	9.73		5.0	0.56
75-27-4	Bromodichloromethane	163.83	9.73		0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	10.7		0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	9.96		0.50	0.050
108-88-3	Toluene	92.14	10.1		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	10.4		0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	9.72		0.20	0.039
127-18-4	Tetrachloroethene	165.83	10.3		0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.74		0.50	0.057
124-48-1	Dibromochloromethane	208.29	9.48		0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	9.99		0.20	0.039
108-90-7	Chlorobenzene	112.56	9.63		0.20	0.049
100-41-4	Ethylbenzene	106.17	10.3		0.20	0.033
179601-23-1	m,p-Xylene	106.17	20.6		0.50	0.071
95-47-6	Xylene, o-	106.17	10.8		0.20	0.037
1330-20-7	Xylene (total)	106.17	31.4		0.70	0.037
100-42-5	Styrene	104.15	10.7		0.20	0.043
75-25-2	Bromoform	252.75	9.77		0.20	0.056
98-82-8	Cumene	120.19	10.7		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	10.0		0.20	0.044
103-65-1	n-Propylbenzene	120.19	10.7		0.20	0.043
622-96-8	4-Ethyltoluene	120.20	10.9		0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	10.6		0.20	0.039
95-49-8	2-Chlorotoluene	126.59	10.1		0.20	0.033
98-06-6	tert-Butylbenzene	134.22	10.9		0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	10.8		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	10.9		0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	11.2		0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	10.5		0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	10.6		0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-94809/4

Matrix: Air Lab File ID: 16024_004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/30/2015 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94809 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	10.1		0.20	0.053
104-51-8	n-Butylbenzene	134.22	10.5		0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	10.6		0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	10.2		0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	11.3		0.20	0.082
91-20-3	Naphthalene	128.17	8.94		0.50	0.057

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_004.d
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 30-Sep-2015 13:38:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016024-004
Misc. Info.: mb
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 01-Oct-2015 12:53:16 Calib Date: 28-Sep-2015 21:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150928-15979.b\15979_010.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: daiglep Date: 01-Oct-2015 11:57:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.329	4.329	0.000	96	83127	10.0	8.97	
2 Dichlorodifluoromethane	85	4.426	4.431	-0.005	99	584310	10.0	9.49	
3 Chlorodifluoromethane	51	4.501	4.501	0.000	95	228744	10.0	9.22	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.805	4.806	-0.001	94	555284	10.0	10.5	
5 Chloromethane	50	5.009	5.009	0.000	100	103940	10.0	8.64	
6 Butane	43	5.287	5.292	-0.005	95	153677	10.0	8.77	
7 Vinyl chloride	62	5.351	5.357	-0.006	98	128108	10.0	9.07	
8 Butadiene	54	5.458	5.458	0.000	92	84189	10.0	8.68	
9 BFB									
10 Bromomethane	94	6.373	6.373	0.000	98	165889	10.0	9.14	
11 Chloroethane	64	6.673	6.678	-0.005	99	85796	10.0	9.15	
12 2-Methylbutane	43	6.758	6.764	-0.006	89	149756	10.0	10.5	
13 Vinyl bromide	106	7.175	7.181	-0.006	99	220645	10.0	9.88	
14 Trichlorofluoromethane	101	7.293	7.299	-0.006	98	668234	10.0	9.56	
16 Pentane	43	7.464	7.464	0.000	99	222181	10.0	10.6	
17 Ethanol	45	7.946	7.946	0.000	99	79454	15.0	13.4	
18 Ethyl ether	59	8.085	8.090	-0.005	90	115866	10.0	11.1	
19 Acrolein	56	8.577	8.583	-0.005	39	43553	10.0	11.3	
20 1,1,2-Trichloro-1,2,2-trif	101	8.593	8.599	-0.006	92	436837	10.0	9.65	
21 1,1-Dichloroethene	96	8.668	8.668	0.000	93	201049	10.0	10.0	
22 Acetone	43	8.935	8.941	-0.006	97	208728	10.0	9.62	
23 Carbon disulfide	76	9.165	9.171	-0.006	98	519518	10.0	10.8	
24 Isopropyl alcohol	45	9.214	9.219	-0.005	100	153034	10.0	8.85	
25 3-Chloro-1-propene	41	9.588	9.588	0.000	94	131485	10.0	9.35	
26 Acetonitrile	41	9.754	9.759	-0.005	98	79507	10.0	10.1	
27 Methylene Chloride	49	9.925	9.931	-0.006	80	145073	10.0	9.12	
28 2-Methyl-2-propanol	59	10.112	10.113	-0.001	94	281579	10.0	9.21	
S 30 1,2-Dichloroethene, Total	61				0		20.0	20.6	
29 Methyl tert-butyl ether	73	10.369	10.375	-0.006	95	544266	10.0	10.2	
31 trans-1,2-Dichloroethene	61	10.428	10.434	-0.006	91	255838	10.0	10.6	
32 Acrylonitrile	53	10.615	10.615	0.000	93	96715	10.0	9.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57	10.851	10.856	-0.005	89	239311	10.0	11.3	
34 1,1-Dichloroethane	63	11.428	11.429	-0.001	99	305293	10.0	9.80	
35 Vinyl acetate	43	11.471	11.471	0.000	99	287082	10.0	9.45	
37 cis-1,2-Dichloroethene	96	12.621	12.616	0.005	93	224110	10.0	9.96	
38 2-Butanone (MEK)	72	12.648	12.654	-0.006	98	90687	10.0	9.04	
39 Ethyl acetate	88	12.664	12.659	0.005	96	17935	10.0	9.75	
41 Tetrahydrofuran	42	13.108	13.108	0.000	86	133437	10.0	9.67	
* 40 Chlorobromomethane	128	13.103	13.114	-0.011	88	193880	10.0	10.0	
42 Chloroform	83	13.215	13.215	0.000	95	464496	10.0	9.72	
43 Cyclohexane	84	13.509	13.510	-0.001	89	278363	10.0	10.7	
44 1,1,1-Trichloroethane	97	13.531	13.531	0.000	93	557386	10.0	10.0	
45 Carbon tetrachloride	117	13.782	13.782	0.000	98	622822	10.0	10.2	
46 Isooctane	57	14.184	14.184	0.000	98	743801	10.0	10.6	
47 Benzene	78	14.253	14.253	0.000	94	604186	10.0	9.96	
48 1,2-Dichloroethane	62	14.414	14.419	-0.005	99	291065	10.0	10.0	
49 n-Heptane	43	14.531	14.531	0.000	80	232205	10.0	10.6	
A 51 GRO	1	14.919	(6.754-23.085)		0	81914835	10.0	0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	896041	10.0	10.0	
52 n-Butanol	56	15.291	15.291	0.000	84	79647	10.0	10.2	
53 Trichloroethene	95	15.478	15.478	0.000	95	319980	10.0	10.3	
54 1,2-Dichloropropane	63	16.018	16.024	-0.006	88	186601	10.0	9.64	
55 Methyl methacrylate	69	16.099	16.099	0.000	92	209976	10.0	10.2	
56 1,4-Dioxane	88	16.190	16.190	0.000	86	103459	10.0	9.73	
57 Dibromomethane	174	16.259	16.259	0.000	87	413045	10.0	10.0	
58 Dichlorobromomethane	83	16.500	16.500	0.000	98	514480	10.0	9.73	
A 59 TVOC as Toluene	92	16.842	(4.319-29.365)		0	155147837	10.0	2993.1	
60 cis-1,3-Dichloropropene	75	17.377	17.377	0.000	89	338728	10.0	10.7	
61 4-Methyl-2-pentanone (MIBK	43	17.623	17.624	-0.001	91	317590	10.0	9.96	
64 n-Octane	43	17.939	17.934	0.005	82	311780	10.0	10.7	
A 62 C8 Range	1	17.934	(17.884-17.984)		0	3413868	NC	NC	
65 Toluene	92	17.955	17.955	0.000	93	491050	10.0	10.1	
A 63 Toluene Range	92	17.955	(17.915-17.995)		0	3413868	10.0	70.2	E
66 trans-1,3-Dichloropropene	75	18.485	18.490	-0.005	94	376566	10.0	10.4	
67 1,1,2-Trichloroethane	83	18.865	18.865	-0.001	94	226378	10.0	9.72	
68 Tetrachloroethene	166	18.988	18.988	0.000	95	602861	10.0	10.3	
69 2-Hexanone	43	19.260	19.261	-0.001	99	316632	10.0	9.74	
71 Chlorodibromomethane	129	19.619	19.619	0.000	98	631117	10.0	9.48	
72 Ethylene Dibromide	107	19.913	19.913	0.000	99	496534	10.0	10.0	
S 73 Xylenes, Total	106				0		30.0	31.4	
* 74 Chlorobenzene-d5	117	20.732	20.732	0.000	83	840501	10.0	10.0	
75 Chlorobenzene	112	20.785	20.785	0.000	98	755329	10.0	9.63	
76 Ethylbenzene	91	20.897	20.898	-0.001	96	1115933	10.0	10.3	
77 n-Nonane	57	20.940	20.940	0.000	81	373529	10.0	10.5	
78 m-Xylene & p-Xylene	106	21.106	21.106	0.000	0	906397	20.0	20.6	
79 o-Xylene	106	21.801	21.796	0.005	99	465788	10.0	10.8	
80 Styrene	104	21.839	21.839	0.000	95	725541	10.0	10.7	
$ 83 4-Bromofluorobenzene	95	22.192	22.192	0.000	26	1043	NC	NC	
81 Bromoform	173	22.203	22.203	0.000	99	705766	10.0	9.77	
82 Isopropylbenzene	105	22.347	22.347	0.000	95	1423886	10.0	10.7	
84 1,1,2,2-Tetrachloroethane	83	22.898	22.898	0.000	98	673028	10.0	10.0	
85 N-Propylbenzene	91	22.973	22.973	0.000	99	1703295	10.0	10.7	
86 1,2,3-Trichloropropane	75	23.005	23.005	0.000	92	512322	10.0	9.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 n-Decane	57	23.075	23.075	0.000	92	562908	10.0	10.3	
88 4-Ethyltoluene	105	23.139	23.139	0.000	97	1598527	10.0	10.9	
89 2-Chlorotoluene	91	23.176	23.177	0.000	94	1242142	10.0	10.1	
90 1,3,5-Trimethylbenzene	105	23.235	23.235	0.000	93	1345135	10.0	10.6	
91 Alpha Methyl Styrene	118	23.588	23.588	0.000	91	730852	10.0	11.6	
92 tert-Butylbenzene	119	23.722	23.722	0.000	95	1362417	10.0	10.9	
93 1,2,4-Trimethylbenzene	105	23.813	23.813	0.000	96	1357919	10.0	10.8	
94 sec-Butylbenzene	105	24.059	24.059	0.000	98	1911448	10.0	10.9	
95 4-Isopropyltoluene	119	24.268	24.262	0.006	97	1741312	10.0	11.2	
96 1,3-Dichlorobenzene	146	24.332	24.332	0.000	94	1090124	10.0	10.5	
97 1,4-Dichlorobenzene	146	24.482	24.482	0.000	97	1092903	10.0	10.6	
98 Benzyl chloride	91	24.706	24.707	-0.001	100	1094377	10.0	10.1	
99 Undecane	57	24.888	24.888	0.000	89	616265	10.0	10.6	
100 n-Butylbenzene	91	24.920	24.921	0.000	97	1387990	10.0	10.5	
101 1,2-Dichlorobenzene	146	25.113	25.113	0.000	99	1059820	10.0	10.6	
102 Dodecane	57	26.777	26.777	0.000	96	548649	10.0	10.4	
103 1,2,4-Trichlorobenzene	180	28.130	28.130	0.000	94	857212	10.0	10.2	
104 Hexachlorobutadiene	225	28.350	28.344	0.006	97	894041	10.0	11.3	
105 Naphthalene	128	28.767	28.767	0.000	99	1421136	10.0	8.94	
106 1,2,3-Trichlorobenzene	180	29.355	29.355	0.000	95	742679	10.0	10.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

ATTO15LCSW_00522	Amount Added: 200.00	Units: mL	
ATTO15WISs_00003	Amount Added: 20.00	Units: mL	Run Reagent

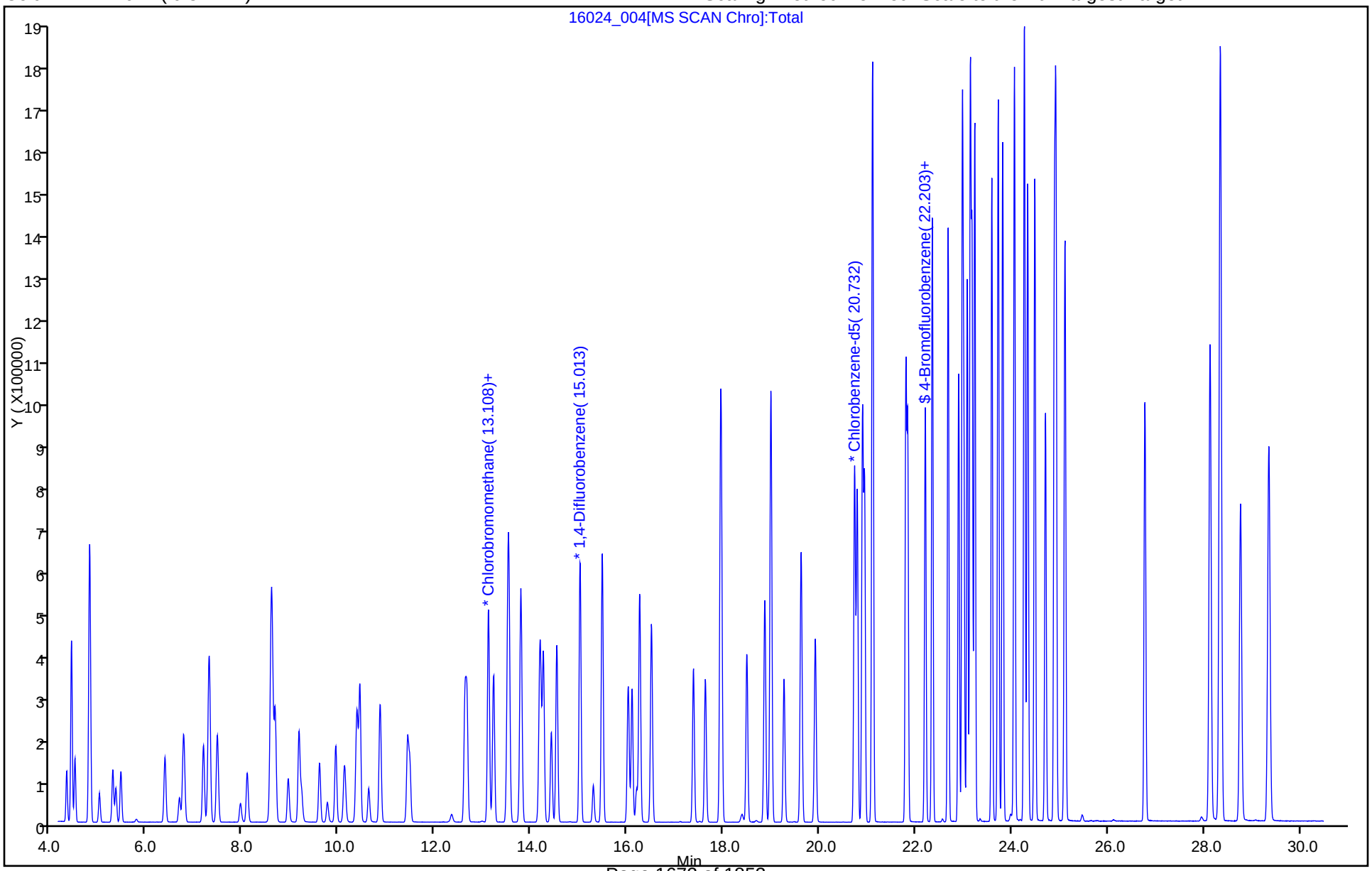
Report Date: 01-Oct-2015 12:53:18 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150930-16024.b\16024_004.d

Injection Date:	30-Sep-2015 13:38:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	lcs			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-95027/3

Matrix: Air Lab File ID: 16087_03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	9.26		0.50	0.080
75-45-6	Freon 22	86.47	8.59		0.50	0.057
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	10.1		0.20	0.038
74-87-3	Chloromethane	50.49	7.97		0.50	0.093
106-97-8	n-Butane	58.12	7.77		0.50	0.078
75-01-4	Vinyl chloride	62.50	8.65		0.040	0.032
106-99-0	1,3-Butadiene	54.09	7.98		0.20	0.089
74-83-9	Bromomethane	94.94	9.23		0.20	0.056
75-00-3	Chloroethane	64.52	8.57		0.50	0.085
593-60-2	Bromoethene(Vinyl Bromide)	106.96	9.26		0.20	0.044
75-69-4	Trichlorofluoromethane	137.37	9.35		0.20	0.038
76-13-1	Freon TF	187.38	9.25		0.20	0.075
75-35-4	1,1-Dichloroethene	96.94	9.17		0.20	0.036
67-64-1	Acetone	58.08	8.63		5.0	0.86
67-63-0	Isopropyl alcohol	60.10	7.01		5.0	0.98
75-15-0	Carbon disulfide	76.14	10.2		0.50	0.043
107-05-1	3-Chloropropene	76.53	7.79		0.50	0.068
75-09-2	Methylene Chloride	84.93	7.68		0.50	0.18
75-65-0	tert-Butyl alcohol	74.12	7.88		5.0	0.85
1634-04-4	Methyl tert-butyl ether	88.15	8.85		0.20	0.089
156-60-5	trans-1,2-Dichloroethene	96.94	9.09		0.20	0.043
110-54-3	n-Hexane	86.17	8.57		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	8.50		0.20	0.025
78-93-3	Methyl Ethyl Ketone	72.11	8.06		0.50	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	9.09		0.20	0.035
540-59-0	1,2-Dichloroethene, Total	96.94	18.2		0.40	0.035
67-66-3	Chloroform	119.38	9.14		0.20	0.082
109-99-9	Tetrahydrofuran	72.11	7.85		5.0	1.4
71-55-6	1,1,1-Trichloroethane	133.41	9.36		0.20	0.046
110-82-7	Cyclohexane	84.16	8.82		0.20	0.039
56-23-5	Carbon tetrachloride	153.81	9.87		0.040	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	8.17		0.20	0.039
71-43-2	Benzene	78.11	8.80		0.20	0.042
107-06-2	1,2-Dichloroethane	98.96	8.90		0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-95027/3

Matrix: Air Lab File ID: 16087_03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
142-82-5	n-Heptane	100.21	7.80		0.20	0.040
79-01-6	Trichloroethene	131.39	8.99		0.040	0.039
80-62-6	Methyl methacrylate	100.12	9.09		0.50	0.040
78-87-5	1,2-Dichloropropane	112.99	8.81		0.20	0.027
123-91-1	1,4-Dioxane	88.11	8.58		5.0	0.56
75-27-4	Bromodichloromethane	163.83	9.60		0.20	0.030
10061-01-5	cis-1,3-Dichloropropene	110.97	9.43		0.20	0.023
108-10-1	methyl isobutyl ketone	100.16	8.31		0.50	0.050
108-88-3	Toluene	92.14	9.30		0.20	0.093
10061-02-6	trans-1,3-Dichloropropene	110.97	9.09		0.20	0.034
79-00-5	1,1,2-Trichloroethane	133.41	9.26		0.20	0.039
127-18-4	Tetrachloroethene	165.83	10.5		0.20	0.023
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	7.58		0.50	0.057
124-48-1	Dibromochloromethane	208.29	10.3		0.20	0.044
106-93-4	1,2-Dibromoethane	187.87	9.66		0.20	0.039
108-90-7	Chlorobenzene	112.56	9.70		0.20	0.049
100-41-4	Ethylbenzene	106.17	9.30		0.20	0.033
179601-23-1	m,p-Xylene	106.17	18.9		0.50	0.071
95-47-6	Xylene, o-	106.17	9.36		0.20	0.037
1330-20-7	Xylene (total)	106.17	28.3		0.70	0.037
100-42-5	Styrene	104.15	9.49		0.20	0.043
75-25-2	Bromoform	252.75	12.8		0.20	0.056
98-82-8	Cumene	120.19	9.29		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.47		0.20	0.044
103-65-1	n-Propylbenzene	120.19	9.18		0.20	0.043
622-96-8	4-Ethyltoluene	120.20	9.52		0.20	0.044
108-67-8	1,3,5-Trimethylbenzene	120.20	9.34		0.20	0.039
95-49-8	2-Chlorotoluene	126.59	9.09		0.20	0.033
98-06-6	tert-Butylbenzene	134.22	9.07		0.20	0.044
95-63-6	1,2,4-Trimethylbenzene	120.20	8.64		0.20	0.043
135-98-8	sec-Butylbenzene	134.22	7.95		0.20	0.044
99-87-6	4-Isopropyltoluene	134.22	8.63		0.20	0.037
541-73-1	1,3-Dichlorobenzene	147.00	10.2		0.20	0.055
106-46-7	1,4-Dichlorobenzene	147.00	10.1		0.20	0.057

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-95027/3

Matrix: Air Lab File ID: 16087_03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/05/2015 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95027 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	7.52		0.20	0.053
104-51-8	n-Butylbenzene	134.22	9.31		0.20	0.047
95-50-1	1,2-Dichlorobenzene	147.00	8.81		0.20	0.055
120-82-1	1,2,4-Trichlorobenzene	181.45	9.23		0.50	0.068
87-68-3	Hexachlorobutadiene	260.76	10.5		0.20	0.082
91-20-3	Naphthalene	128.17	7.32		0.50	0.057

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_03.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 05-Oct-2015 10:19:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0016087-003
Misc. Info.: lcs
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 05-Oct-2015 09:02:59 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: desjardinsb Date: 05-Oct-2015 11:05:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	3.102	3.103	-0.001	98	59343	10.0	7.75	
2 Dichlorodifluoromethane	85	3.172	3.172	0.000	99	332350	10.0	9.26	
3 Chlorodifluoromethane	51	3.220	3.226	-0.006	97	148974	10.0	8.59	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.434	3.440	-0.006	91	366863	10.0	10.1	
5 Chloromethane	50	3.573	3.579	-0.006	99	80505	10.0	7.97	
6 Butane	43	3.766	3.771	-0.005	98	128831	10.0	7.77	
7 Vinyl chloride	62	3.809	3.814	-0.005	98	110094	10.0	8.65	
8 Butadiene	54	3.884	3.889	-0.005	93	72933	10.0	7.98	
9 Bromomethane	94	4.558	4.558	0.000	99	133117	10.0	9.23	
$ 19 BFB									
10 Chloroethane	64	4.782	4.788	-0.006	99	55095	10.0	8.57	
11 2-Methylbutane	43	4.846	4.852	-0.006	90	96399	10.0	8.12	
12 Vinyl bromide	106	5.162	5.168	-0.006	99	154050	10.0	9.26	
13 Trichlorofluoromethane	101	5.253	5.259	-0.006	98	369966	10.0	9.35	
14 Pentane	43	5.387	5.392	-0.005	96	159837	10.0	8.47	
15 Ethanol	45	5.847	5.868	-0.021	97	59470	15.0	15.0	
16 Ethyl ether	59	5.911	5.922	-0.011	91	79475	10.0	9.57	
17 Acrolein	56	6.291	6.296	-0.005	41	37996	10.0	12.2	
18 1,1,2-Trichloro-1,2,2-trif	101	6.296	6.296	0.000	92	293052	10.0	9.25	
20 1,1-Dichloroethene	96	6.344	6.350	-0.006	92	135832	10.0	9.17	
21 Acetone	43	6.601	6.612	-0.011	88	139377	10.0	8.63	
22 Carbon disulfide	76	6.740	6.746	-0.006	98	383838	10.0	10.2	
23 Isopropyl alcohol	45	6.906	6.922	-0.016	98	107245	10.0	7.01	
24 3-Chloro-1-propene	41	7.120	7.120	0.000	88	97337	10.0	7.79	
25 Acetonitrile	41	7.265	7.275	-0.010	99	61338	10.0	8.02	
26 Methylene Chloride	49	7.409	7.414	-0.005	80	104418	10.0	7.68	
28 2-Methyl-2-propanol	59	7.687	7.709	-0.022	99	193143	10.0	7.88	
29 Methyl tert-butyl ether	73	7.816	7.826	-0.010	95	362404	10.0	8.85	
30 trans-1,2-Dichloroethene	61	7.837	7.837	0.000	88	172907	10.0	9.09	
31 Acrylonitrile	53	8.008	8.014	-0.006	95	74033	10.0	8.39	
32 Hexane	57	8.201	8.212	-0.011	88	173011	10.0	8.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.709	8.709	0.000	99	218108	10.0	8.50	
34 Vinyl acetate	43	8.773	8.784	-0.011	99	245663	10.0	8.16	
35 cis-1,2-Dichloroethene	96	9.806	9.811	-0.005	92	169881	10.0	9.09	
36 2-Butanone (MEK)	72	9.864	9.881	-0.017	100	69047	10.0	8.06	
37 Ethyl acetate	88	9.897	9.907	-0.010	99	13204	10.0	9.74	
S 38 1,2-Dichloroethene, Total	61				0		20.0	18.2	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	72	184441	10.0	10.0	
39 Tetrahydrofuran	42	10.292	10.298	-0.006	84	111821	10.0	7.85	
41 Chloroform	83	10.405	10.410	-0.005	99	313255	10.0	9.14	
42 Cyclohexane	84	10.646	10.651	-0.005	82	220584	10.0	8.82	
43 1,1,1-Trichloroethane	97	10.683	10.683	0.000	96	341140	10.0	9.36	
44 Carbon tetrachloride	117	10.929	10.929	0.000	96	374726	10.0	9.87	
45 Isooctane	57	11.357	11.368	-0.011	99	683237	10.0	8.17	
46 Benzene	78	11.411	11.411	0.000	93	513623	10.0	8.80	
47 1,2-Dichloroethane	62	11.603	11.609	-0.006	98	182252	10.0	8.90	
48 n-Heptane	43	11.748	11.753	-0.005	85	219692	10.0	7.80	
* 50 1,4-Difluorobenzene	114	12.256	12.261	-0.005	91	999275	10.0	10.0	
51 n-Butanol	56	12.694	12.711	-0.017	81	76800	10.0	7.91	
52 Trichloroethene	95	12.737	12.743	-0.006	91	264348	10.0	8.99	
53 1,2-Dichloropropane	63	13.326	13.331	-0.005	95	195412	10.0	8.81	
54 Methyl methacrylate	69	13.486	13.497	-0.011	80	200936	10.0	9.09	
55 1,4-Dioxane	88	13.566	13.572	-0.006	85	93994	10.0	8.58	
56 Dibromomethane	174	13.599	13.604	-0.005	86	365907	10.0	10.4	
57 Dichlorobromomethane	83	13.898	13.904	-0.006	98	399706	10.0	9.60	
58 cis-1,3-Dichloropropene	75	14.866	14.872	-0.006	86	328074	10.0	9.43	
A 60 TVOC as Toluene	1	14.966	(3.065-26.866)		0	116331093	10.0	2286.2	
61 4-Methyl-2-pentanone (MIBK	43	15.182	15.193	-0.011	91	316877	10.0	8.31	
A 63 Toluene Range	1		(15.466-15.486)				ND	ND	
62 Toluene	92	15.471	15.476	-0.005	93	478505	10.0	9.30	
A 65 GRO	1	15.514	(15.514-15.514)		0	3278013	10.0	0	
A 64 C8 Range	1		(15.615-15.524)				ND	ND	
66 n-Octane	43	15.508	15.514	-0.006	85	359358	10.0	8.29	
67 trans-1,3-Dichloropropene	75	16.092	16.092	0.000	92	329749	10.0	9.09	
68 1,1,2-Trichloroethane	83	16.477	16.482	-0.005	94	222305	10.0	9.26	
69 Tetrachloroethene	166	16.578	16.579	-0.001	92	537168	10.0	10.5	
70 2-Hexanone	43	16.947	16.953	-0.006	91	289756	10.0	7.58	
71 Chlorodibromomethane	129	17.263	17.263	0.000	96	509491	10.0	10.3	
72 Ethylene Dibromide	107	17.541	17.547	-0.006	98	455939	10.0	9.66	
* 73 Chlorobenzene-d5	117	18.445	18.446	-0.001	80	1010485	10.0	10.0	
74 Chlorobenzene	112	18.504	18.510	-0.006	99	710325	10.0	9.70	
75 Ethylbenzene	91	18.649	18.649	0.000	96	1032149	10.0	9.30	
76 n-Nonane	57	18.750	18.751	0.000	84	402140	10.0	8.44	
77 m-Xylene & p-Xylene	106	18.900	18.906	-0.006	98	883834	20.0	18.9	
78 o-Xylene	106	19.713	19.719	-0.006	96	432750	10.0	9.36	
79 Styrene	104	19.767	19.767	0.000	98	684966	10.0	9.49	
S 80 Xylenes, Total	106				0		30.0	28.3	
81 Bromoform	173	20.179	20.179	0.000	99	595169	10.0	12.8	
82 Isopropylbenzene	105	20.350	20.355	-0.005	94	1225636	10.0	9.29	
* 83 4-Bromofluorobenzene	95	20.714	20.714	0.000	96	640010	10.0	10.0	
85 1,1,2,2-Tetrachloroethane	83	20.981	20.981	0.000	98	587510	10.0	9.47	
86 N-Propylbenzene	91	21.035	21.035	0.000	99	1410423	10.0	9.18	
87 1,2,3-Trichloropropane	75	21.077	21.078	-0.001	95	415584	10.0	8.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 n-Decane	57	21.179	21.179	0.000	83	425933	10.0	7.07	
89 4-Ethyltoluene	105	21.217	21.217	0.000	98	1268583	10.0	9.52	
90 2-Chlorotoluene	91	21.233	21.238	-0.005	96	948107	10.0	9.09	
91 1,3,5-Trimethylbenzene	105	21.318	21.318	0.000	95	1027056	10.0	9.34	
92 Alpha Methyl Styrene	118	21.671	21.671	0.000	92	581499	10.0	10.0	
93 tert-Butylbenzene	119	21.789	21.789	0.000	96	994614	10.0	9.07	
94 1,2,4-Trimethylbenzene	105	21.880	21.880	0.000	95	952630	10.0	8.64	
95 sec-Butylbenzene	105	22.105	22.105	0.000	99	1274280	10.0	7.95	
96 4-Isopropyltoluene	119	22.297	22.297	0.000	98	1218893	10.0	8.63	
97 1,3-Dichlorobenzene	146	22.345	22.346	-0.001	99	866996	10.0	10.2	
98 1,4-Dichlorobenzene	146	22.484	22.485	-0.001	97	866184	10.0	10.1	
99 Benzyl chloride	91	22.688	22.688	0.000	99	675650	10.0	7.52	
100 Undecane	57	22.886	22.886	0.000	92	544658	10.0	8.81	
101 n-Butylbenzene	91	22.886	22.886	0.000	96	1105443	10.0	9.31	
102 1,2-Dichlorobenzene	146	23.041	23.041	0.000	100	708492	10.0	8.81	
103 Dodecane	57	24.533	24.534	-0.001	93	460329	10.0	8.15	
104 1,2,4-Trichlorobenzene	180	25.668	25.673	-0.005	90	684679	10.0	9.23	
105 Hexachlorobutadiene	225	25.855	25.855	0.000	98	723502	10.0	10.5	
106 Naphthalene	128	26.197	26.197	0.000	99	1039531	10.0	7.32	
107 1,2,3-Trichlorobenzene	180	26.705	26.706	-0.001	95	573033	10.0	8.36	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

ATTO15LCSW_00521	Amount Added: 200.00	Units: mL	
ATTO15GIS_00009	Amount Added: 20.00	Units: mL	Run Reagent

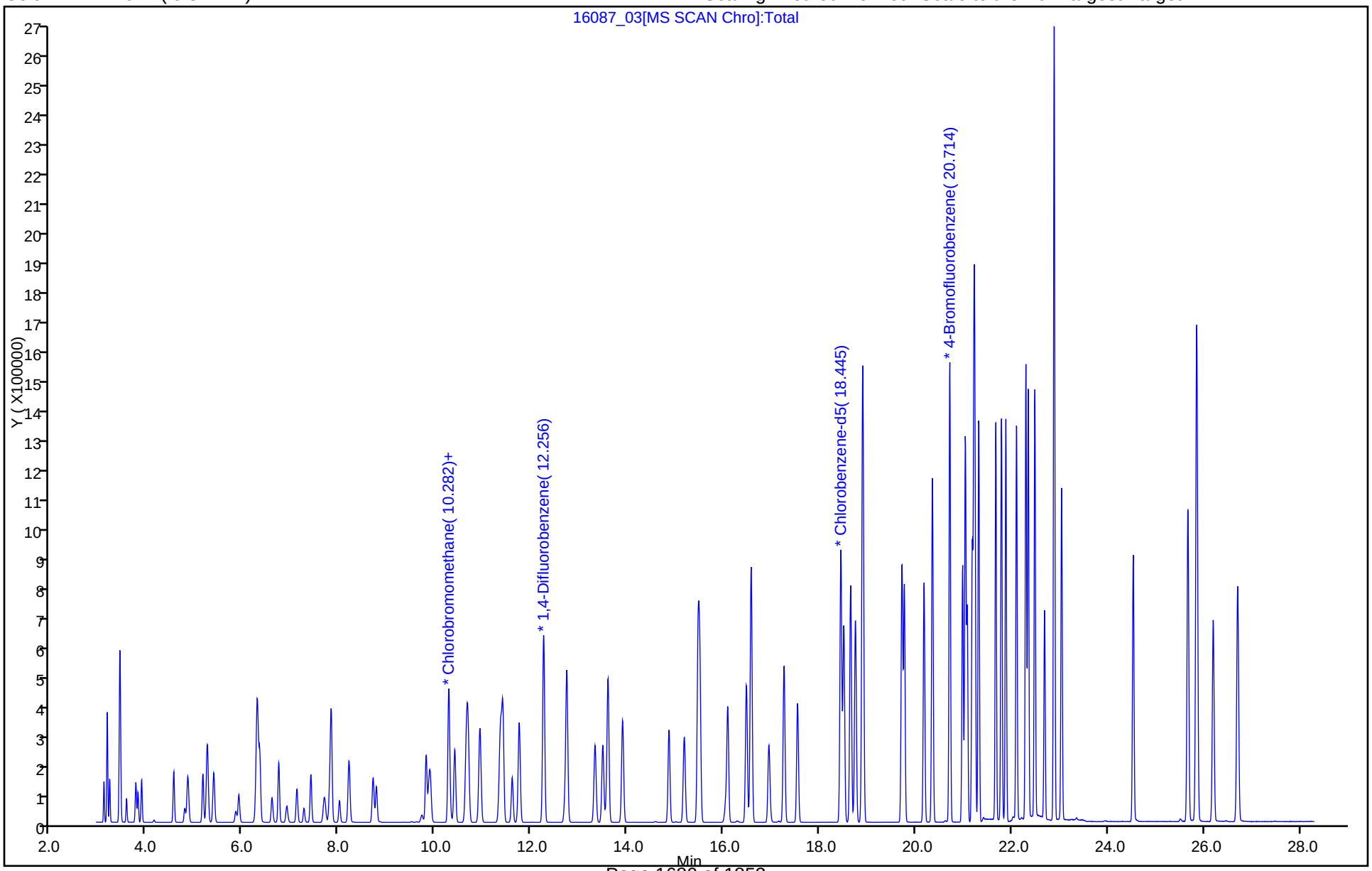
Report Date: 05-Oct-2015 11:05:12 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20151005-16087.b\16087_03.D

Injection Date:	05-Oct-2015 10:19:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	lcs			Worklist Smp#:	3
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Start Date: 09/28/2015 14:27

Analysis Batch Number: 94650 End Date: 09/29/2015 01:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-94650/1		09/28/2015 14:27	1	15979_001.d	RTX-624 0.32(mm)
VIBLK 200-94650/2		09/28/2015 15:05	1		RTX-624 0.32(mm)
IC 200-94650/3		09/28/2015 15:53	1	15979_003.d	RTX-624 0.32(mm)
IC 200-94650/4		09/28/2015 16:42	1	15979_004.d	RTX-624 0.32(mm)
IC 200-94650/5		09/28/2015 17:30	1	15979_005.d	RTX-624 0.32(mm)
IC 200-94650/6		09/28/2015 18:19	1	15979_006.d	RTX-624 0.32(mm)
ICIS 200-94650/7		09/28/2015 19:07	1	15979_007.d	RTX-624 0.32(mm)
IC 200-94650/8		09/28/2015 19:55	1	15979_008.d	RTX-624 0.32(mm)
IC 200-94650/9		09/28/2015 20:44	1	15979_009.d	RTX-624 0.32(mm)
IC 200-94650/10		09/28/2015 21:32	1	15979_010.d	RTX-624 0.32(mm)
VIBLK 200-94650/11		09/28/2015 22:21	1		RTX-624 0.32(mm)
VIBLK 200-94650/12		09/28/2015 23:09	1		RTX-624 0.32(mm)
ICV 200-94650/13		09/28/2015 23:58	1	15979_013.d	RTX-624 0.32(mm)
ZZZZZ		09/29/2015 00:48	1		RTX-624 0.32(mm)
ZZZZZ		09/29/2015 01:36	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Start Date: 09/29/2015 10:30

Analysis Batch Number: 94728 End Date: 09/30/2015 09:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-94728/1		09/29/2015 10:30	1	15991_001.d	RTX-624 0.32(mm)
CCVIS 200-94728/2		09/29/2015 11:21	1	15991_002.d	RTX-624 0.32(mm)
LCS 200-94728/3		09/29/2015 12:10	1	15991_003.d	RTX-624 0.32(mm)
MB 200-94728/4		09/29/2015 12:59	1	15991_004.d	RTX-624 0.32(mm)
ZZZZZ		09/29/2015 13:47	10		RTX-624 0.32(mm)
200-29972-2	FR-IA01-092315	09/29/2015 14:37	1	15991_006.d	RTX-624 0.32(mm)
ZZZZZ		09/29/2015 15:26	10		RTX-624 0.32(mm)
200-29972-4	FR-IA02-092315	09/29/2015 16:16	1	15991_008.d	RTX-624 0.32(mm)
ZZZZZ		09/29/2015 17:05	10		RTX-624 0.32(mm)
200-29972-6	FR-IA03-092315	09/29/2015 17:55	1	15991_010.d	RTX-624 0.32(mm)
200-29972-7	FR-SS04-092315	09/29/2015 18:44	10	15991_011.d	RTX-624 0.32(mm)
200-29972-8	FR-IA04-092315	09/29/2015 19:33	1	15991_012.d	RTX-624 0.32(mm)
200-29972-9	FR-SS05-092315	09/29/2015 20:23	176	15991_013.d	RTX-624 0.32(mm)
200-29972-9 DL	FR-SS05-092315 DL	09/29/2015 21:11	927	15991_014.d	RTX-624 0.32(mm)
200-29972-10	FR-IA05-092315	09/29/2015 22:02	1	15991_015.d	RTX-624 0.32(mm)
ZZZZZ		09/29/2015 22:50	10		RTX-624 0.32(mm)
200-29972-12	FR-IA06-092315	09/29/2015 23:40	1	15991_017.d	RTX-624 0.32(mm)
ZZZZZ		09/30/2015 00:28	10		RTX-624 0.32(mm)
ZZZZZ		09/30/2015 01:18	1		RTX-624 0.32(mm)
ZZZZZ		09/30/2015 02:08	1		RTX-624 0.32(mm)
200-29972-18	FR-IA09-092315	09/30/2015 03:02	1	15991_021.d	RTX-624 0.32(mm)
200-29972-21	FR-IA10-092315	09/30/2015 03:52	1	15991_022.d	RTX-624 0.32(mm)
200-29972-22	FR-AA-092315	09/30/2015 04:42	1	15991_023.d	RTX-624 0.32(mm)
200-29972-2 DL	FR-IA01-092315 DL	09/30/2015 05:30	2.99	15991_024.d	RTX-624 0.32(mm)
ZZZZZ		09/30/2015 06:18	4		RTX-624 0.32(mm)
200-29972-10 DL	FR-IA05-092315 DL	09/30/2015 08:03	2.99	15991_026.d	RTX-624 0.32(mm)
200-29972-12 DL	FR-IA06-092315 DL	09/30/2015 08:51	2	15991_027.d	RTX-624 0.32(mm)
200-29972-14 DL	FR-IA07-092315 DL	09/30/2015 09:39	2	15991_028.d	RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHW.i Start Date: 09/30/2015 11:02

Analysis Batch Number: 94809 End Date: 10/01/2015 11:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-94809/1		09/30/2015 11:02	1	16024_001.d	RTX-624 0.32(mm)
CCVIS 200-94809/2		09/30/2015 11:59	1		RTX-624 0.32(mm)
CCVIS 200-94809/3		09/30/2015 12:48	1	16024_003.d	RTX-624 0.32(mm)
LCS 200-94809/4		09/30/2015 13:38	1	16024_004.d	RTX-624 0.32(mm)
MB 200-94809/5		09/30/2015 14:27	1	16024_005.d	RTX-624 0.32(mm)
200-29972-4 DL	FR-IA02-092315 DL	09/30/2015 15:15	5	16024_006.d	RTX-624 0.32(mm)
ZZZZZ		09/30/2015 16:03	10		RTX-624 0.32(mm)
200-29972-14	FR-IA07-092315	09/30/2015 16:53	1	16024_008.d	RTX-624 0.32(mm)
200-29972-16	FR-IA08-092315	09/30/2015 17:43	1	16024_009.d	RTX-624 0.32(mm)
200-29972-16 DL	FR-IA08-092315 DL	09/30/2015 18:31	2.99	16024_010.d	RTX-624 0.32(mm)
200-29972-18 DL	FR-IA09-092315 DL	09/30/2015 19:19	4	16024_011.d	RTX-624 0.32(mm)
200-29972-21 DL	FR-IA10-092315 DL	09/30/2015 20:07	2.5	16024_012.d	RTX-624 0.32(mm)
200-29972-15	FR-SS08-092315	09/30/2015 20:57	39.5	16024_013.d	RTX-624 0.32(mm)
200-29972-15 DL	FR-SS08-092315 DL	09/30/2015 21:45	180	16024_014.d	RTX-624 0.32(mm)
ZZZZZ		09/30/2015 22:33	10		RTX-624 0.32(mm)
ZZZZZ		09/30/2015 23:20	9.94		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 00:08	10		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 00:58	1		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 01:48	1		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 02:38	1		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 03:30	1		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 04:20	1		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 08:17	10		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 09:04	9.94		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 09:52	10		RTX-624 0.32(mm)
ZZZZZ		10/01/2015 11:36	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Start Date: 08/17/2015 15:35

Analysis Batch Number: 92823 End Date: 08/18/2015 04:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-92823/1		08/17/2015 15:35	1	15313_01.D	RTX-624 0.32(mm)
VIBLK 200-92823/2		08/17/2015 16:25	1		RTX-624 0.32(mm)
VIBLK 200-92823/3		08/17/2015 17:14	1		RTX-624 0.32(mm)
IC 200-92823/4		08/17/2015 18:04	1	15313_04.D	RTX-624 0.32(mm)
IC 200-92823/5		08/17/2015 18:54	1	15313_05.D	RTX-624 0.32(mm)
IC 200-92823/6		08/17/2015 19:44	1	15313_06.D	RTX-624 0.32(mm)
IC 200-92823/7		08/17/2015 20:33	1	15313_07.D	RTX-624 0.32(mm)
ICIS 200-92823/8		08/17/2015 21:23	1	15313_08.D	RTX-624 0.32(mm)
IC 200-92823/9		08/17/2015 22:13	1	15313_09.D	RTX-624 0.32(mm)
IC 200-92823/10		08/17/2015 23:02	1	15313_10.D	RTX-624 0.32(mm)
IC 200-92823/11		08/17/2015 23:52	1	15313_11.D	RTX-624 0.32(mm)
VIBLK 200-92823/12		08/18/2015 00:42	1		RTX-624 0.32(mm)
VIBLK 200-92823/13		08/18/2015 01:31	1		RTX-624 0.32(mm)
ZZZZZ		08/18/2015 02:21	1		RTX-624 0.32(mm)
ICV 200-92823/15		08/18/2015 03:10	1	15313_15.D	RTX-624 0.32(mm)
ZZZZZ		08/18/2015 04:00	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29972-1

SDG No.:

Instrument ID: CHX.i Start Date: 10/05/2015 08:39

Analysis Batch Number: 95027 End Date: 10/06/2015 04:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-95027/1		10/05/2015 08:39	1	16087_01.D	RTX-624 0.32(mm)
CCVIS 200-95027/2		10/05/2015 09:29	1	16087_02.D	RTX-624 0.32(mm)
LCS 200-95027/3		10/05/2015 10:19	1	16087_03.D	RTX-624 0.32(mm)
MB 200-95027/4		10/05/2015 11:08	1	16087_04.D	RTX-624 0.32(mm)
ZZZZZ		10/05/2015 11:58	6.06		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 12:47	2		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 13:36	4		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 14:26	2		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 15:15	2		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 16:04	2		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 16:54	1		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 17:43	1		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 18:32	1		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 19:21	1		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 20:10	1.5		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 20:59	1		RTX-624 0.32(mm)
ZZZZZ		10/05/2015 21:48	1.5		RTX-624 0.32(mm)
200-29972-1	FR-SS01-092315	10/05/2015 22:38	1	16087_18.D	RTX-624 0.32(mm)
200-29972-3	FR-SS02-092315	10/05/2015 23:27	4	16087_19.D	RTX-624 0.32(mm)
200-29972-5	FR-SS03-092315	10/06/2015 00:16	1	16087_20.D	RTX-624 0.32(mm)
200-29972-11	FR-SS06-092315	10/06/2015 01:05	1	16087_21.D	RTX-624 0.32(mm)
200-29972-13	FR-SS07-092315	10/06/2015 01:55	5	16087_22.D	RTX-624 0.32(mm)
200-29972-17	FR-SS09-092315	10/06/2015 02:44	2	16087_23.D	RTX-624 0.32(mm)
200-29972-19	FR-SSDUP-092315	10/06/2015 03:33	3	16087_24.D	RTX-624 0.32(mm)
200-29972-20	FR-SS10-092315	10/06/2015 04:22	2	16087_25.D	RTX-624 0.32(mm)

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-29972	09/26/15	14:08	30.3	22	G15	SML III

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	X		
(2) Is the flow controller ID used for each canister recorded?	X		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		X	N/A
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		X	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-29972-A-1	4355	-8.0	N	5237	67/8	Y	4455 15772	
200-29972-A-2	5148	-6.5	N	4537	67/7	Y	5148 15745	
200-29972-A-3	3361	-7.1	N	3108	67/8	Y	4455 15772	
200-29972-A-4	2885	-6.3	N	4763	67/8	Y	2885 15745	
200-29972-A-5	2632	-7.2	N	4247	67/8	Y	4455 15772	
200-29972-A-6	4577	-7.2	N	3933	67/8	Y	4577 15745	
200-29972-A-7	4275	-5.7	N	5175	67/7	Y	4455 15772	
200-29972-A-8	5982	-6.8	N	4053	67/7	Y	5982 15745	
200-29972-A-9	5660	-7.7	N	4993	67/8	Y	4455 15772	
200-29972-A-10	5438	-7.0	N	3934	67/8	Y	5438 15745	
200-29972-A-11	2781	-6.5	N	4046	67/8	Y	4455 15775	
200-29972-A-12	4094	-8.4	N	3450	67/8	Y	4094 15745	
200-29972-A-13	3482	-6.2	N	2755	67/7	Y	4455 15772	
200-29972-A-14	4315	-5.7	N	4724	67/8	Y	4315 15745	
200-29972-A-15	4319	-5.2	N	4744	67/8	Y	4455 15772	
200-29972-A-16	4286	-7.2	N	4742	67/7	Y	4286 15745	
200-29972-A-17	4076	-7.4	N	3743	67/7	Y	4455 15772	
200-29972-A-18	4803	-14.8	Y	5183	67/8	Y	4803 15745	
200-29972-A-19	2973	-14.8	Y	3746	67/7	Y	4455 15772	
200-29972-A-20	3505	-6.9	N	4503	67/8	Y	4455 15772	
200-29972-A-21	3033	-6.5	N	4538	67/7	Y	3033 15745	
200-29972-A-22	5042	-6.9	N	2931	67/7	Y	5042 15745	

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Summa Canister Dilution Worksheet

Client: O'Brien & Gere Inc of North America

Job No.: 200-29972-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Date	Analyst
200-29972-9	6	-7.7	0.74	4.46	37.4	3.54	21.27		4.77	4.77	09/29/15 13:22	Daigle, Paul A
200-29972-9	6	0.0	1.00	6.00	38.8	3.64	21.84		3.64	17.37	09/29/15 13:25	Daigle, Paul A
200-29972-9	6	0.0	1.00	6.00	39.0	3.65	21.92		3.65	63.45	09/29/15 13:25	Daigle, Paul A
200-29972-9	6	0.0	1.00	6.00	26.1	2.78	16.65		2.78	176.11	09/29/15 13:25	Daigle, Paul A
200-29972-15	6	-5.2	0.83	4.96	38.5	3.62	21.71		4.38	4.38	09/30/15 15:05	Daigle, Paul A
200-29972-15	6	0.0	1.00	6.00	38.7	3.63	21.80		3.63	15.91	09/30/15 15:06	Daigle, Paul A
200-29972-15	6	0.0	1.00	6.00	21.8	2.48	14.90		2.48	39.51	09/30/15 15:06	Daigle, Paul A
200-29972-18	6	-14.8	0.51	3.03	0.0	1.00	6.00		1.98	1.98	09/29/15 13:42	Daigle, Paul A
200-29972-19	6	-14.8	0.51	3.03	-2.5	0.83	4.98		1.64	1.64	09/29/15 8:50	Nelson, Andrea J
200-29972-20	6	-6.9	0.77	4.62	0.0	1.00	6.00		1.30	1.30	09/30/15 15:24	Daigle, Paul A

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

200-29686-A-1
4286
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 9/10/2015 12:00 AM 200-837712

Loc: 200
29686
#1
A

Pre-Shipment Clean Canister Certification Rep

Certification Type: ☐ Batch ☒ Individual

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		
Bottom	25	9/10/15	MS	(6L)	1L	3L

Leak Test

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	4286	-29.8	-30.2	-30.1	-0.1
2	5438	-29.8	-30.1	-30.1	0
3	4315	-29.8	-30.2	-30.1	-0.1
4	5148	-29.7	-30.3	-30.0	-0.3
~~5~~	4365	-29.9	-30.2	-30.5	+0.3
6	4094	-29.8	-30.3	-30.1	-0.2
7	3033	-29.9	-30.1	-30.2	+0.1
8	4803	-29.7	-30.2	-30.0	-0.2
9	2885	-29.8	-30.1	-30.1	0
10	4577	-29.8	-30.2	-30.1	-0.1
11	5042	-29.8	-30.3	-30.1	-0.2
12	5982	-29.7	-30.1	-30.0	-0.1

Initial Reading	Final Reading ~~10~~	
Gauge ID: 69	Gauge ID: 69	69
Date: 9/18/15	Date: 9/24/15	9/24/15
Time: 1300	Time: 900	1145
Tech: MS	Tech: MS	MS
BP: 29.7 ("Hg)	BP: 30.0	30.3 ("Hg)
Temp 22 (℃)	Temp: 21	22 (℃)

[3]Acceptance Criteria:
(1) The difference must be less than or equal to + 0.5
(2) Pressure readings must be at least 24 hours apart.
If time frame was not met, the PM must authorize shipment of canister:
PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
4286	9/16/15	15745	PAD		✓				9/17/15	AN
5438					✓					
4315					✓					
5148					✓					
4365					✓					
4094					✓					
3033					✓					
4803					✓					
2885					✓					
4577					✓					
5042					✓					
5982					✓					

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: 0.04 2ND

200-29753-A-5
4455
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 9/15/2015 12:00 AM 200-839009

Loc: 200
29753
#5
A

Pre-Shipment Clean Canister Certification Repo

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test												
System ID			# Cycles		Cleaning Date		Technician		Canister Size			
TO15			20		9/15/15		ME		6L	1L	3L	
		Leak Test										
Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]	Initial Reading			Final Reading			
1	4319		-29.8	-29.7	-0.1	Gauge ID:	69		Gauge ID:	69	69	
2	5660		-29.7		0	Date:	9/16/15		Date:	9/19/15	9/21/15	
3	4076		-29.8		-0.1	Time:	910		Time:	1415	850	
4	4355		-29.8		-0.1	Tech:	ME	ME 9/16/15	Tech:	ME	MD	
5	4455	-30.1	-29.8	-30.1	+0.3	BP:	30.0	("Hg)	BP:	29.6	30.0	("Hg)
6	4275		-29.7		0	Temp	22	(°C)	Temp:	23	21	(°C)
7	2632		-29.7		0	[3]Acceptance Criteria:						
8	3482		-29.6		+0.1	(1) The difference must be less than or equal to + 0.5						
9	3505		-29.8		-0.1	(2) Pressure readings must be at least 24 hours apart.						
10	2781		-29.7		0	If time frame was not met, the PM must authorize shipment of canister:						
11	3361		-29.8		-0.1	*PM Authorization:*						
12	2973	✓	-29.8	✓	-0.1	Signature			Date			

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15				Inventory Level					Secondary Review		
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer	
4455	9/16/15	15722	WND		✓				9/17/15	ANL	

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: Routine

BR-FAI023:10.19.09:7
TestAmerica

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 15745_004.d

Lab ID: LCS 200-93960/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	10.1	101	70-130	
Dichlorodifluoromethane	10.0	11.5	115	70-130	
Freon 22	10.0	10.7	107	70-130	
1,2-Dichlorotetrafluoroethane	10.0	11.9	119	70-130	
Chloromethane	10.0	9.71	97	70-130	
n-Butane	10.0	9.40	94	70-130	
Vinyl chloride	10.0	9.73	97	70-130	
1,3-Butadiene	10.0	9.35	93	70-130	
Bromomethane	10.0	10.2	102	70-130	
Chloroethane	10.0	10.4	104	70-130	
Bromoethene(Vinyl Bromide)	10.0	10.5	105	70-130	
Trichlorofluoromethane	10.0	11.5	115	70-130	
Ethanol	15.0	14.9	100	70-130	
Freon TF	10.0	11.0	110	70-130	
1,1-Dichloroethene	10.0	10.6	106	70-130	
Acetone	10.0	10.5	105	70-130	
Isopropyl alcohol	10.0	9.07	91	70-130	
Carbon disulfide	10.0	12.0	120	70-130	
3-Chloropropene	10.0	10.4	104	70-130	
Methylene Chloride	10.0	10.1	101	70-130	
tert-Butyl alcohol	10.0	9.90	99	70-130	
Methyl tert-butyl ether	10.0	10.6	106	70-130	
trans-1,2-Dichloroethene	10.0	11.4	114	70-130	
n-Hexane	10.0	10.6	106	70-130	
1,1-Dichloroethane	10.0	10.5	105	70-130	
Vinyl acetate	10.0	10.3	103	70-130	
Ethyl acetate	10.0	11.6	116	70-130	
Methyl Ethyl Ketone	10.0	9.92	99	70-130	
cis-1,2-Dichloroethene	10.0	10.1	101	70-130	
Chloroform	10.0	11.3	113	70-130	
Tetrahydrofuran	10.0	10.7	107	70-130	
1,1,1-Trichloroethane	10.0	12.2	122	70-130	
Cyclohexane	10.0	10.8	108	70-130	
Carbon tetrachloride	10.0	13.1	131	70-130	*
2,2,4-Trimethylpentane	10.0	10.5	105	70-130	
Benzene	10.0	10.8	108	70-130	
1,2-Dichloroethane	10.0	12.0	120	70-130	
n-Heptane	10.0	10.4	104	70-130	
Trichloroethene	10.0	11.3	113	70-130	
Methyl methacrylate	10.0	11.0	110	70-130	
1,2-Dichloropropane	10.0	10.3	103	70-130	
1,4-Dioxane	10.0	10.3	103	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 15745_004.d

Lab ID: LCS 200-93960/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	11.8	118	70-130	
cis-1,3-Dichloropropene	10.0	10.9	109	70-130	
methyl isobutyl ketone	10.0	10.6	106	70-130	
Toluene	10.0	10.8	108	70-130	
trans-1,3-Dichloropropene	10.0	11.8	118	70-130	
1,1,2-Trichloroethane	10.0	10.8	108	70-130	
Tetrachloroethene	10.0	11.2	112	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.6	106	70-130	
Dibromochloromethane	10.0	12.3	123	70-130	
1,2-Dibromoethane	10.0	11.1	111	70-130	
Chlorobenzene	10.0	10.8	108	70-130	
Ethylbenzene	10.0	11.0	110	70-130	
m,p-Xylene	20.0	21.9	110	70-130	
Xylene, o-	10.0	10.6	106	70-130	
Styrene	10.0	11.1	111	70-130	
Bromoform	10.0	14.4	144	70-130	*
Cumene	10.0	11.0	110	70-130	
1,1,2,2-Tetrachloroethane	10.0	11.5	115	70-130	
n-Propylbenzene	10.0	11.3	113	70-130	
4-Ethyltoluene	10.0	11.7	117	70-130	
1,3,5-Trimethylbenzene	10.0	11.5	115	70-130	
2-Chlorotoluene	10.0	11.5	115	70-130	
tert-Butylbenzene	10.0	11.4	114	70-130	
1,2,4-Trimethylbenzene	10.0	11.3	113	70-130	
sec-Butylbenzene	10.0	11.3	113	70-130	
4-Isopropyltoluene	10.0	11.4	114	70-130	
1,3-Dichlorobenzene	10.0	11.5	115	70-130	
1,4-Dichlorobenzene	10.0	11.5	115	70-130	
Benzyl chloride	10.0	12.5	125	70-130	
n-Butylbenzene	10.0	11.4	114	70-130	
1,2-Dichlorobenzene	10.0	11.4	114	70-130	
1,2,4-Trichlorobenzene	10.0	10.3	103	70-130	
Hexachlorobutadiene	10.0	10.8	108	70-130	
Naphthalene	10.0	9.99	100	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 15772_04.D

Lab ID: LCS 200-94025/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	8.79	88	70-130	
Dichlorodifluoromethane	10.0	10.2	102	70-130	
Freon 22	10.0	9.56	96	70-130	
1,2-Dichlorotetrafluoroethane	10.0	11.1	111	70-130	
Chloromethane	10.0	8.85	88	70-130	
n-Butane	10.0	8.81	88	70-130	
Vinyl chloride	10.0	9.54	95	70-130	
1,3-Butadiene	10.0	9.13	91	70-130	
Bromomethane	10.0	9.87	99	70-130	
Chloroethane	10.0	9.15	92	70-130	
Bromoethene(Vinyl Bromide)	10.0	9.85	99	70-130	
Trichlorofluoromethane	10.0	10.2	102	70-130	
Ethanol	15.0	12.9	86	70-130	
Freon TF	10.0	10.0	100	70-130	
1,1-Dichloroethene	10.0	9.82	98	70-130	
Acetone	10.0	10.3	103	70-130	
Isopropyl alcohol	10.0	8.14	81	70-130	
Carbon disulfide	10.0	11.1	111	70-130	
3-Chloropropene	10.0	9.25	92	70-130	
Methylene Chloride	10.0	8.53	85	70-130	
tert-Butyl alcohol	10.0	8.86	89	70-130	
Methyl tert-butyl ether	10.0	9.63	96	70-130	
trans-1,2-Dichloroethene	10.0	9.98	100	70-130	
n-Hexane	10.0	9.33	93	70-130	
1,1-Dichloroethane	10.0	9.34	93	70-130	
Vinyl acetate	10.0	9.29	93	70-130	
Ethyl acetate	10.0	10.7	107	70-130	
Methyl Ethyl Ketone	10.0	8.86	89	70-130	
cis-1,2-Dichloroethene	10.0	9.88	99	70-130	
Chloroform	10.0	10.2	102	70-130	
Tetrahydrofuran	10.0	8.96	90	70-130	
1,1,1-Trichloroethane	10.0	10.3	103	70-130	
Cyclohexane	10.0	9.55	95	70-130	
Carbon tetrachloride	10.0	8.06	81	70-130	
2,2,4-Trimethylpentane	10.0	9.13	91	70-130	
Benzene	10.0	9.61	96	70-130	
1,2-Dichloroethane	10.0	10.0	100	70-130	
n-Heptane	10.0	8.91	89	70-130	
Trichloroethene	10.0	9.82	98	70-130	
Methyl methacrylate	10.0	10.2	102	70-130	
1,2-Dichloropropane	10.0	9.92	99	70-130	
1,4-Dioxane	10.0	9.75	98	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 15772_04.D

Lab ID: LCS 200-94025/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.6	106	70-130	
cis-1,3-Dichloropropene	10.0	10.5	105	70-130	
methyl isobutyl ketone	10.0	9.91	99	70-130	
Toluene	10.0	9.95	100	70-130	
trans-1,3-Dichloropropene	10.0	10.2	102	70-130	
1,1,2-Trichloroethane	10.0	10.1	101	70-130	
Tetrachloroethene	10.0	11.1	111	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.17	92	70-130	
Dibromochloromethane	10.0	11.1	111	70-130	
1,2-Dibromoethane	10.0	10.5	105	70-130	
Chlorobenzene	10.0	10.3	103	70-130	
Ethylbenzene	10.0	10.1	101	70-130	
m,p-Xylene	20.0	20.2	101	70-130	
Xylene, o-	10.0	9.95	100	70-130	
Styrene	10.0	10.1	101	70-130	
Bromoform	10.0	13.6	136	70-130	*
Cumene	10.0	9.94	99	70-130	
1,1,2,2-Tetrachloroethane	10.0	10.4	104	70-130	
n-Propylbenzene	10.0	9.88	99	70-130	
4-Ethyltoluene	10.0	10.2	102	70-130	
1,3,5-Trimethylbenzene	10.0	9.98	100	70-130	
2-Chlorotoluene	10.0	9.92	99	70-130	
tert-Butylbenzene	10.0	9.91	99	70-130	
1,2,4-Trimethylbenzene	10.0	9.80	98	70-130	
sec-Butylbenzene	10.0	9.13	91	70-130	
4-Isopropyltoluene	10.0	8.67	87	70-130	
1,3-Dichlorobenzene	10.0	10.9	109	70-130	
1,4-Dichlorobenzene	10.0	10.8	108	70-130	
Benzyl chloride	10.0	10.0	100	70-130	
n-Butylbenzene	10.0	10.0	100	70-130	
1,2-Dichlorobenzene	10.0	10.6	106	70-130	
1,2,4-Trichlorobenzene	10.0	10.9	109	70-130	
Hexachlorobutadiene	10.0	11.1	111	70-130	
Naphthalene	10.0	10.4	104	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab File ID: 15745_005.d Lab Sample ID: MB 200-93960/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHW.i Date Analyzed: 09/15/2015 13:41

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-93960/4	15745_004.d	09/15/2015 12:52
4286	200-29686-1	15745_006.d	09/15/2015 14:47
5438	200-29686-2	15745_007.d	09/15/2015 15:54
4315	200-29686-3	15745_008.d	09/15/2015 17:00
5148	200-29686-4	15745_009.d	09/15/2015 18:09
4365	200-29686-5	15745_010.d	09/15/2015 19:17
4094	200-29686-6	15745_011.d	09/15/2015 20:23
3033	200-29686-7	15745_012.d	09/15/2015 21:28
4803	200-29686-8	15745_013.d	09/15/2015 22:36
2885	200-29686-9	15745_014.d	09/15/2015 23:42
4577	200-29686-10	15745_015.d	09/16/2015 00:49
5042	200-29686-11	15745_016.d	09/16/2015 01:55
5982	200-29686-12	15745_017.d	09/16/2015 03:02

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-93960/5

Matrix: Air | Lab File ID: 15745_005.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/15/2015 13:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-93960/5

Matrix: Air | Lab File ID: 15745_005.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/15/2015 13:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-93960/5

Matrix: Air Lab File ID: 15745_005.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/15/2015 13:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_005.d
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 15-Sep-2015 13:41:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015745-005
Misc. Info.: mb
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:57:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308					ND	
2 Dichlorodifluoromethane	85		4.410					ND	
3 Chlorodifluoromethane	51		4.484					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795					ND	
5 Chloromethane	50		4.993					ND	
6 Butane	43		5.282					ND	
7 Vinyl chloride	62		5.340					ND	
8 Butadiene	54		5.447					ND	
10 Bromomethane	94		6.362					ND	
11 Chloroethane	64		6.672					ND	
12 2-Methylbutane	43		6.753					ND	
13 Vinyl bromide	106		7.170					ND	
14 Trichlorofluoromethane	101		7.293					ND	
16 Pentane	43		7.459					ND	
17 Ethanol	45		7.951					ND	
18 Ethyl ether	59		8.090					ND	
T 15 Methyl Acetate TIC	43		8.501					ND	
19 Acrolein	56		8.577					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598					ND	
21 1,1-Dichloroethene	96		8.668					ND	
22 Acetone	43		8.941					ND	
23 Carbon disulfide	76		9.165					ND	
24 Isopropyl alcohol	45	9.251	9.224	0.027	59	3284		0.1137	
25 3-Chloro-1-propene	41		9.593					ND	
26 Acetonitrile	41		9.759					ND	
27 Methylene Chloride	49		9.930					ND	
28 2-Methyl-2-propanol	59		10.118					ND	
S 30 1,2-Dichloroethene, Total	61		10.200					ND	
29 Methyl tert-butyl ether	73		10.374					ND	
31 trans-1,2-Dichloroethene	61		10.433					ND	
32 Acrylonitrile	53		10.621					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57		10.856					ND	
34 1,1-Dichloroethane	63		11.428					ND	
35 Vinyl acetate	43		11.477					ND	
T 36 Methyl cyclohexane TIC	55		11.500					ND	
37 cis-1,2-Dichloroethene	96		12.621					ND	
38 2-Butanone (MEK)	72		12.653					ND	
39 Ethyl acetate	88		12.675					ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	71	257668	10.0	10.0	
41 Tetrahydrofuran	42		13.114					ND	
42 Chloroform	83		13.215					ND	
43 Cyclohexane	84		13.515					ND	
44 1,1,1-Trichloroethane	97		13.536					ND	
45 Carbon tetrachloride	117		13.788					ND	
46 Isooctane	57		14.189					ND	
47 Benzene	78		14.253					ND	
48 1,2-Dichloroethane	62		14.419					ND	
49 n-Heptane	43		14.531					ND	
A 51 GRO	1	14.916	(6.743-23.090)		0	4076445		0	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	1227841	10.0	10.0	
52 n-Butanol	56		15.296					ND	
53 Trichloroethene	95		15.478					ND	
54 1,2-Dichloropropane	63		16.024					ND	
55 Methyl methacrylate	69		16.099					ND	
56 1,4-Dioxane	88		16.195					ND	
57 Dibromomethane	174		16.259					ND	
58 Dichlorobromomethane	83		16.505					ND	
A 59 TVOC as Toluene	92	16.834	(4.298-29.371)		0	4273284		48.3	
60 cis-1,3-Dichloropropene	75		17.377					ND	
61 4-Methyl-2-pentanone (MIBK	43		17.629					ND	
A 62 C8 Range	1	17.947	(17.889-17.989)		0	707		NC	
64 n-Octane	43		17.939					ND	
A 63 Toluene Range	92	17.960	(17.920-18.000)		0	3939		0.0484	
65 Toluene	92		17.960					ND	
66 trans-1,3-Dichloropropene	75		18.490					ND	
67 1,1,2-Trichloroethane	83		18.864					ND	
68 Tetrachloroethene	166		18.993					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
69 2-Hexanone	43		19.266					ND	
71 Chlorodibromomethane	129		19.619					ND	
72 Ethylene Dibromide	107		19.918					ND	
S 73 Xylenes, Total	106		20.100					ND	
* 74 Chlorobenzene-d5	117	20.732	20.731	0.001	82	1128554	10.0	10.0	
75 Chlorobenzene	112		20.790					ND	
76 Ethylbenzene	91		20.897					ND	
77 n-Nonane	57		20.940					ND	
78 m-Xylene & p-Xylene	106		21.106					ND	
79 o-Xylene	106		21.801					ND	
80 Styrene	104		21.839					ND	
$ 83 4-Bromofluorobenzene	95		22.197				ND	ND	
81 Bromoform	173		22.208					ND	
82 Isopropylbenzene	105		22.352					ND	
84 1,1,2,2-Tetrachloroethane	83		22.898					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	91		22.978					ND	
86 1,2,3-Trichloropropane	75		23.005					ND	
87 n-Decane	57		23.080					ND	
88 4-Ethyltoluene	105		23.144					ND	
89 2-Chlorotoluene	91		23.176					ND	
90 1,3,5-Trimethylbenzene	105		23.235					ND	
91 Alpha Methyl Styrene	118		23.588					ND	
92 tert-Butylbenzene	119		23.722					ND	
93 1,2,4-Trimethylbenzene	105		23.813					ND	
94 sec-Butylbenzene	105		24.059					ND	
95 4-Isopropyltoluene	119		24.268					ND	
96 1,3-Dichlorobenzene	146		24.337					ND	
97 1,4-Dichlorobenzene	146	24.503	24.487	0.016	85	1523		0.0104	
98 Benzyl chloride	91		24.706					ND	
99 Undecane	57		24.894					ND	
100 n-Butylbenzene	91		24.926					ND	
101 1,2-Dichlorobenzene	146		25.113					ND	
102 Dodecane	57		26.777					ND	
103 1,2,4-Trichlorobenzene	180		28.135					ND	
104 Hexachlorobutadiene	225		28.349					ND	
105 Naphthalene	128		28.767					ND	
106 1,2,3-Trichlorobenzene	180		29.361					ND	
T 107 Methyl acetylene TIC	1		0.000					ND	
T 108 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 109 1,3-Dichloropropane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

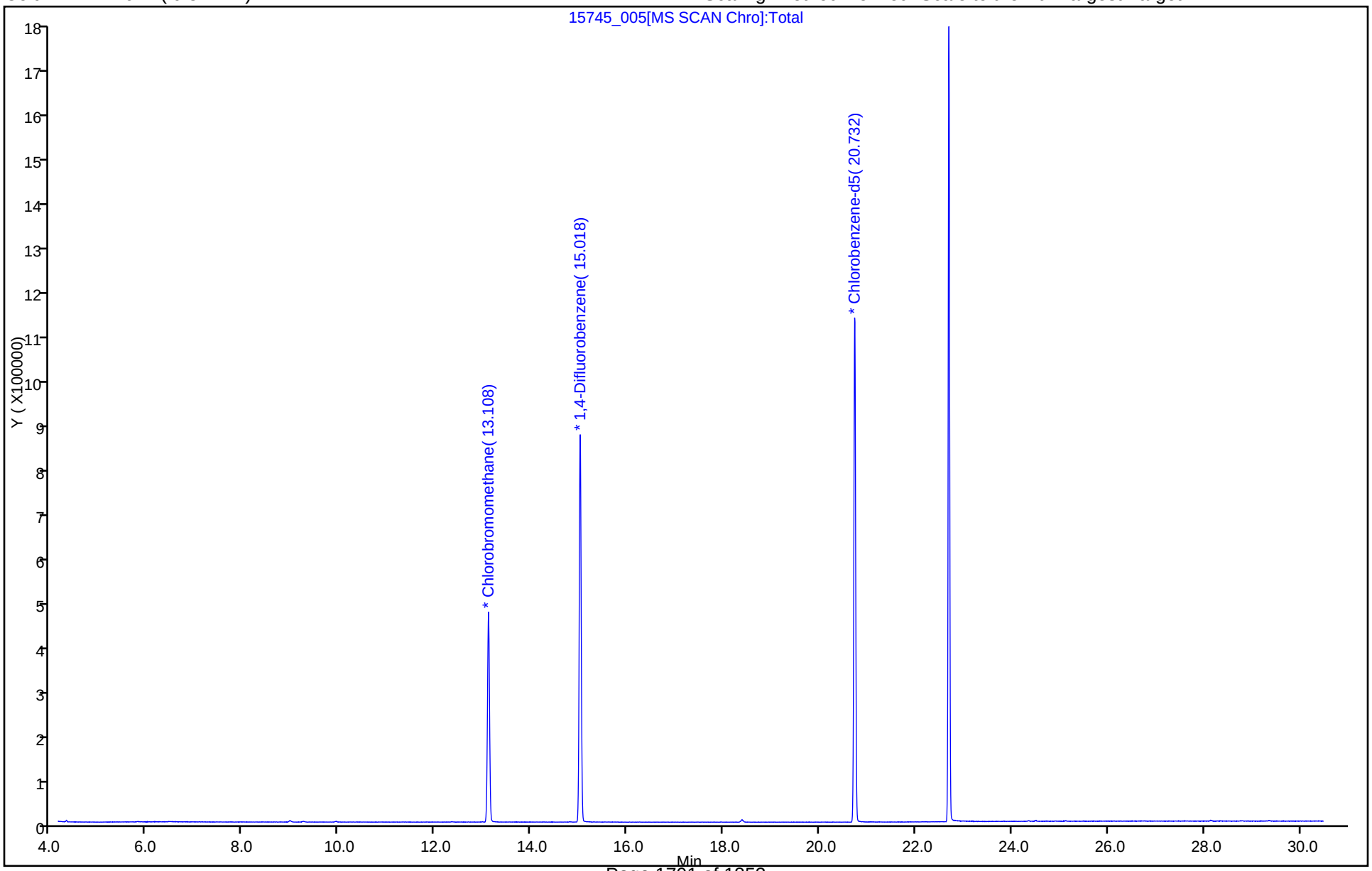
Report Date: 16-Sep-2015 12:07:09 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_005.d

Injection Date:	15-Sep-2015 13:41:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab File ID: 15772_05.D Lab Sample ID: MB 200-94025/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHX.i Date Analyzed: 09/16/2015 14:58

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-94025/4	15772_04.D	09/16/2015 14:08
4455	200-29753-5	15772_28.D	09/17/2015 10:18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29753-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-94025/5

Matrix: Air | Lab File ID: 15772_05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/16/2015 14:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94025 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29753-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-94025/5

Matrix: Air | Lab File ID: 15772_05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/16/2015 14:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94025 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-94025/5

Matrix: Air Lab File ID: 15772_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 09/16/2015 14:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94025 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150916-15772.b\15772_05.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 16-Sep-2015 14:58:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0015772-005
Misc. Info.: mb
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150916-15772.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Sep-2015 09:15:26 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 17-Sep-2015 09:15:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		3.108					ND	
2 Dichlorodifluoromethane	85		3.178					ND	
3 Chlorodifluoromethane	51		3.226					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440					ND	
5 Chloromethane	50		3.579					ND	
6 Butane	43		3.771					ND	
7 Vinyl chloride	62		3.819					ND	
8 Butadiene	54		3.894					ND	
9 Bromomethane	94		4.563					ND	
10 Chloroethane	64		4.793					ND	
11 2-Methylbutane	43		4.857					ND	
12 Vinyl bromide	106		5.168					ND	
13 Trichlorofluoromethane	101		5.264					ND	
14 Pentane	43		5.398					ND	
15 Ethanol	45		5.852					ND	
16 Ethyl ether	59		5.917					ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.302					ND	
17 Acrolein	56		6.302					ND	
20 1,1-Dichloroethene	96		6.355					ND	
21 Acetone	43		6.607					ND	
22 Carbon disulfide	76		6.751					ND	
23 Isopropyl alcohol	45		6.917					ND	
24 3-Chloro-1-propene	41		7.126					ND	
25 Acetonitrile	41		7.275					ND	
26 Methylene Chloride	49	7.415	7.414	0.001	73	1658		0.1336	
T 27 Methyl Acetate TIC	43		7.568					ND	
28 2-Methyl-2-propanol	59		7.698					ND	
29 Methyl tert-butyl ether	73		7.826					ND	
30 trans-1,2-Dichloroethene	61		7.842					ND	
31 Acrylonitrile	53		8.014					ND	
32 Hexane	57		8.212					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63		8.714					ND	
34 Vinyl acetate	43		8.784					ND	
35 cis-1,2-Dichloroethene	96		9.816					ND	
36 2-Butanone (MEK)	72		9.881					ND	
37 Ethyl acetate	88		9.907					ND	
S 38 1,2-Dichloroethene, Total	61		10.000					ND	
* 40 Chlorobromomethane	128	10.277	10.293	-0.016	72	168434	10.0	10.0	
39 Tetrahydrofuran	42		10.309					ND	
41 Chloroform	83		10.416					ND	
42 Cyclohexane	84		10.656					ND	
43 1,1,1-Trichloroethane	97		10.694					ND	
44 Carbon tetrachloride	117		10.940					ND	
45 Isooctane	57		11.368					ND	
46 Benzene	78		11.416					ND	
47 1,2-Dichloroethane	62		11.609					ND	
48 n-Heptane	43		11.758					ND	
T 49 Methyl cyclohexane TIC	55		11.965					ND	
* 50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	91	935787	10.0	10.0	
51 n-Butanol	56		12.711					ND	
52 Trichloroethene	95		12.748					ND	
53 1,2-Dichloropropane	63		13.337					ND	
54 Methyl methacrylate	69		13.497					ND	
55 1,4-Dioxane	88		13.577					ND	
56 Dibromomethane	174		13.609					ND	
57 Dichlorobromomethane	83		13.909					ND	
58 cis-1,3-Dichloropropene	75		14.877					ND	
A 59 Total Hydrocarbons	1	14.976	(3.076-26.877)		0	245196			NC
A 60 TVOC as Toluene	1		(3.076-26.877)					ND	
61 4-Methyl-2-pentanone (MIBK	43		15.193					ND	
A 63 Toluene Range	1	15.482	(15.472-15.492)		0	15103			NC
62 Toluene	92		15.482					ND	
A 65 GRO	1	15.519	(15.519-15.519)		0	15103			0
A 64 C8 Range	1		(16.011-15.529)					ND	
66 n-Octane	43		15.519					ND	
67 trans-1,3-Dichloropropene	75		16.102					ND	
68 1,1,2-Trichloroethane	83		16.488					ND	
69 Tetrachloroethene	166		16.584					ND	
70 2-Hexanone	43		16.953					ND	
71 Chlorodibromomethane	129		17.269					ND	
72 Ethylene Dibromide	107		17.552					ND	
* 73 Chlorobenzene-d5	117	18.446	18.451	-0.005	81	948996	10.0	10.0	
74 Chlorobenzene	112		18.515					ND	
75 Ethylbenzene	91		18.654					ND	
76 n-Nonane	57		18.756					ND	
77 m-Xylene & p-Xylene	106		18.906					ND	
78 o-Xylene	106		19.724					ND	
79 Styrene	104		19.772					ND	
S 80 Xylenes, Total	106		20.000					ND	
81 Bromoform	173		20.184					ND	
82 Isopropylbenzene	105		20.361					ND	
* 83 4-Bromofluorobenzene	95	20.714	20.719	-0.005	97	599331	10.0	10.0	
T 84 1,2-Dibromo-3-Chloropropan	75		20.846					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 1,1,2,2-Tetrachloroethane	83		20.987					ND	
86 N-Propylbenzene	91		21.040					ND	
87 1,2,3-Trichloropropane	75		21.083					ND	
88 n-Decane	57		21.185					ND	
89 4-Ethyltoluene	105		21.222					ND	
90 2-Chlorotoluene	91		21.243					ND	
91 1,3,5-Trimethylbenzene	105		21.318					ND	
92 Alpha Methyl Styrene	118		21.677					ND	
93 tert-Butylbenzene	119		21.794					ND	
94 1,2,4-Trimethylbenzene	105		21.885					ND	
95 sec-Butylbenzene	105		22.105					ND	
96 4-Isopropyltoluene	119		22.303					ND	
97 1,3-Dichlorobenzene	146		22.351					ND	
98 1,4-Dichlorobenzene	146		22.490					ND	
99 Benzyl chloride	91		22.693					ND	
101 n-Butylbenzene	91		22.891					ND	
100 Undecane	57		22.891					ND	
102 1,2-Dichlorobenzene	146		23.046					ND	
103 Dodecane	57		24.539					ND	
104 1,2,4-Trichlorobenzene	180		25.678					ND	
105 Hexachlorobutadiene	225		25.860					ND	
106 Naphthalene	128	26.208	26.208	0.000	2	2250		0.0169	
107 1,2,3-Trichlorobenzene	180		26.716					ND	
T 108 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 109 Methyl acetylene TIC	1		0.000					ND	
T 117 1,3-Dichloropropane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

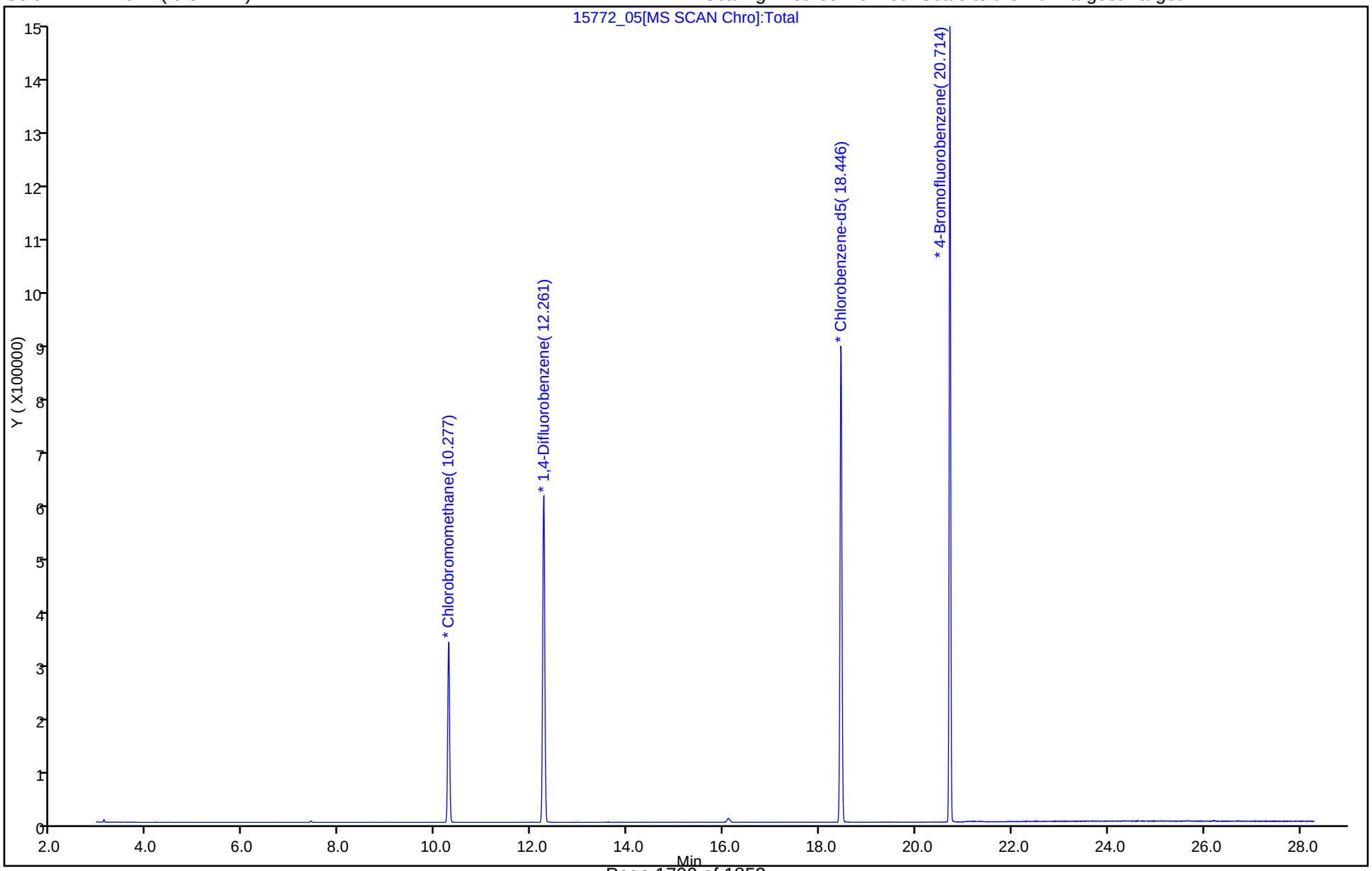
Report Date: 17-Sep-2015 09:15:27 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150916-15772.b\15772_05.D

Injection Date:	16-Sep-2015 14:58:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab File ID: 15276_001.d BFB Injection Date: 08/13/2015

Instrument ID: CHW.i BFB Injection Time: 14:44

Analysis Batch No.: 92714

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	12.2	
75	30.0 - 66.0% of mass 95	41.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.5	(0.4)1
174	50.0 - 120.0% of mass 95	113.4	
175	4.0 - 9.0 % of mass 174	8.0	(7.0)1
176	93.0 - 101.0% of mass 174	110.8	(97.7)1
177	5.0 - 9.0% of mass 176	7.4	(6.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-92714/4	15276_004.d	08/13/2015	17:16
	IC 200-92714/6	15276_006.d	08/13/2015	18:52
	IC 200-92714/7	15276_007.d	08/13/2015	19:42
	IC 200-92714/8	15276_008.d	08/13/2015	20:32
	ICIS 200-92714/9	15276_009.d	08/13/2015	21:22
	IC 200-92714/10	15276_010.d	08/13/2015	22:14
	IC 200-92714/11	15276_011.d	08/13/2015	23:05
	IC 200-92714/12	15276_012.d	08/13/2015	23:55
	ICV 200-92714/15	15276_015.d	08/14/2015	02:21

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab File ID: 15745_001.d BFB Injection Date: 09/15/2015

Instrument ID: CHW.i BFB Injection Time: 10:24

Analysis Batch No.: 93960

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	101.9	
175	4.0 - 9.0 % of mass 174	6.9	(6.7)1
176	93.0 - 101.0% of mass 174	98.9	(97.1)1
177	5.0 - 9.0% of mass 176	6.5	(6.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-93960/3	15745_003.d	09/15/2015	12:03
	LCS 200-93960/4	15745_004.d	09/15/2015	12:52
	MB 200-93960/5	15745_005.d	09/15/2015	13:41
4286	200-29686-1	15745_006.d	09/15/2015	14:47
5438	200-29686-2	15745_007.d	09/15/2015	15:54
4315	200-29686-3	15745_008.d	09/15/2015	17:00
5148	200-29686-4	15745_009.d	09/15/2015	18:09
4365	200-29686-5	15745_010.d	09/15/2015	19:17
4094	200-29686-6	15745_011.d	09/15/2015	20:23
3033	200-29686-7	15745_012.d	09/15/2015	21:28
4803	200-29686-8	15745_013.d	09/15/2015	22:36
2885	200-29686-9	15745_014.d	09/15/2015	23:42
4577	200-29686-10	15745_015.d	09/16/2015	00:49
5042	200-29686-11	15745_016.d	09/16/2015	01:55
5982	200-29686-12	15745_017.d	09/16/2015	03:02

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab File ID: 15313_01.D BFB Injection Date: 08/17/2015

Instrument ID: CHX.i BFB Injection Time: 15:35

Analysis Batch No.: 92823

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	12.1	
75	30.0 - 66.0% of mass 95	39.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.8	(0.8)1
174	50.0 - 120.0% of mass 95	103.8	
175	4.0 - 9.0 % of mass 174	7.5	(7.2)1
176	93.0 - 101.0% of mass 174	101.5	(97.8)1
177	5.0 - 9.0% of mass 176	6.4	(6.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-92823/4	15313_04.D	08/17/2015	18:04
	IC 200-92823/5	15313_05.D	08/17/2015	18:54
	IC 200-92823/6	15313_06.D	08/17/2015	19:44
	IC 200-92823/7	15313_07.D	08/17/2015	20:33
	ICIS 200-92823/8	15313_08.D	08/17/2015	21:23
	IC 200-92823/9	15313_09.D	08/17/2015	22:13
	IC 200-92823/10	15313_10.D	08/17/2015	23:02
	IC 200-92823/11	15313_11.D	08/17/2015	23:52
	ICV 200-92823/15	15313_15.D	08/18/2015	03:10

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab File ID: 15772_01.D BFB Injection Date: 09/16/2015

Instrument ID: CHX.i BFB Injection Time: 11:15

Analysis Batch No.: 94025

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	12.8	
75	30.0 - 66.0% of mass 95	41.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.0	(0.9)1
174	50.0 - 120.0% of mass 95	112.8	
175	4.0 - 9.0 % of mass 174	8.1	(7.2)1
176	93.0 - 101.0% of mass 174	109.6	(97.2)1
177	5.0 - 9.0% of mass 176	7.1	(6.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-94025/2	15772_02.D	09/16/2015	12:03
	LCS 200-94025/4	15772_04.D	09/16/2015	14:08
	MB 200-94025/5	15772_05.D	09/16/2015	14:58
4455	200-29753-5	15772_28.D	09/17/2015	10:18

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Sample No.: ICIS 200-92714/9 Date Analyzed: 08/13/2015 21:22

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15276_009.d Heated Purge: (Y/N) N

Calibration ID: 31735

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		215023	13.12	1048635	15.02	973083	20.74
UPPER LIMIT		301032	13.45	1468089	15.35	1362316	21.07
LOWER LIMIT		129014	12.79	629181	14.69	583850	20.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-92714/15		237144	13.12	1153973	15.02	1065618	20.74

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Sample No.: CCVIS 200-93960/3 Date Analyzed: 09/15/2015 12:03

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15745_003.d Heated Purge: (Y/N) N

Calibration ID: 31735

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		275893	13.11	1246567	15.02	1166501	20.73
UPPER LIMIT		386250	13.44	1745194	15.35	1633101	21.06
LOWER LIMIT		165536	12.78	747940	14.69	699901	20.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-93960/4		257078	13.11	1173145	15.02	1106908	20.74
MB 200-93960/5		257668	13.11	1227841	15.02	1128554	20.73
200-29686-1	4286	243297	13.11	1135006	15.02	1052899	20.74
200-29686-2	5438	222717	13.11	1047639	15.02	978273	20.74
200-29686-3	4315	230422	13.11	1071115	15.02	1012693	20.74
200-29686-4	5148	212774	13.11	985793	15.02	941214	20.74
200-29686-5	4365	229350	13.11	1055967	15.02	1006279	20.74
200-29686-6	4094	224905	13.11	1031335	15.02	980691	20.74
200-29686-7	3033	208225	13.11	946146	15.02	897769	20.74
200-29686-8	4803	210052	13.11	956567	15.02	913735	20.74
200-29686-9	2885	213874	13.11	979904	15.02	904959	20.74
200-29686-10	4577	214881	13.11	981502	15.02	937448	20.74
200-29686-11	5042	213934	13.11	971823	15.02	924603	20.74
200-29686-12	5982	204316	13.11	934340	15.02	887021	20.74

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Sample No.: ICIS 200-92823/8 Date Analyzed: 08/17/2015 21:23

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15313_08.D Heated Purge: (Y/N) N

Calibration ID: 31716

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		178277	10.28	967745	12.27	948006	18.46
UPPER LIMIT		249588	10.61	1354843	12.60	1327208	18.79
LOWER LIMIT		106966	9.95	580647	11.94	568804	18.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-92823/15		188633	10.29	1018364	12.27	989108	18.46

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Sample No.: CCVIS 200-94025/2 Date Analyzed: 09/16/2015 12:03

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 15772_02.D Heated Purge: (Y/N) N

Calibration ID: 31716

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		143804	10.29	794617	12.27	830593	18.45
UPPER LIMIT		201326	10.62	1112464	12.60	1162830	18.78
LOWER LIMIT		86282	9.96	476770	11.94	498356	18.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-94025/4		167780	10.29	923000	12.26	946066	18.45
MB 200-94025/5		168434	10.28	935787	12.26	948996	18.45
200-29753-5	4455	132996	10.28	731807	12.26	746752	18.45

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4286 Lab Sample ID: 200-29686-1

Matrix: Air Lab File ID: 15745_006.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 14:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4286 Lab Sample ID: 200-29686-1

Matrix: Air Lab File ID: 15745_006.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 14:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4286 Lab Sample ID: 200-29686-1

Matrix: Air Lab File ID: 15745_006.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 14:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_006.d
Lims ID: 200-29686-A-1 Lab Sample ID: 200-29686-1
Client ID: 4286
Sample Type: Client
Inject. Date: 15-Sep-2015 14:47:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-006
Misc. Info.: 29686-01
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:58:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45	9.251	9.224	0.027	55	3133	0.1148	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	82	243297	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	1135006	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	82	1052899	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

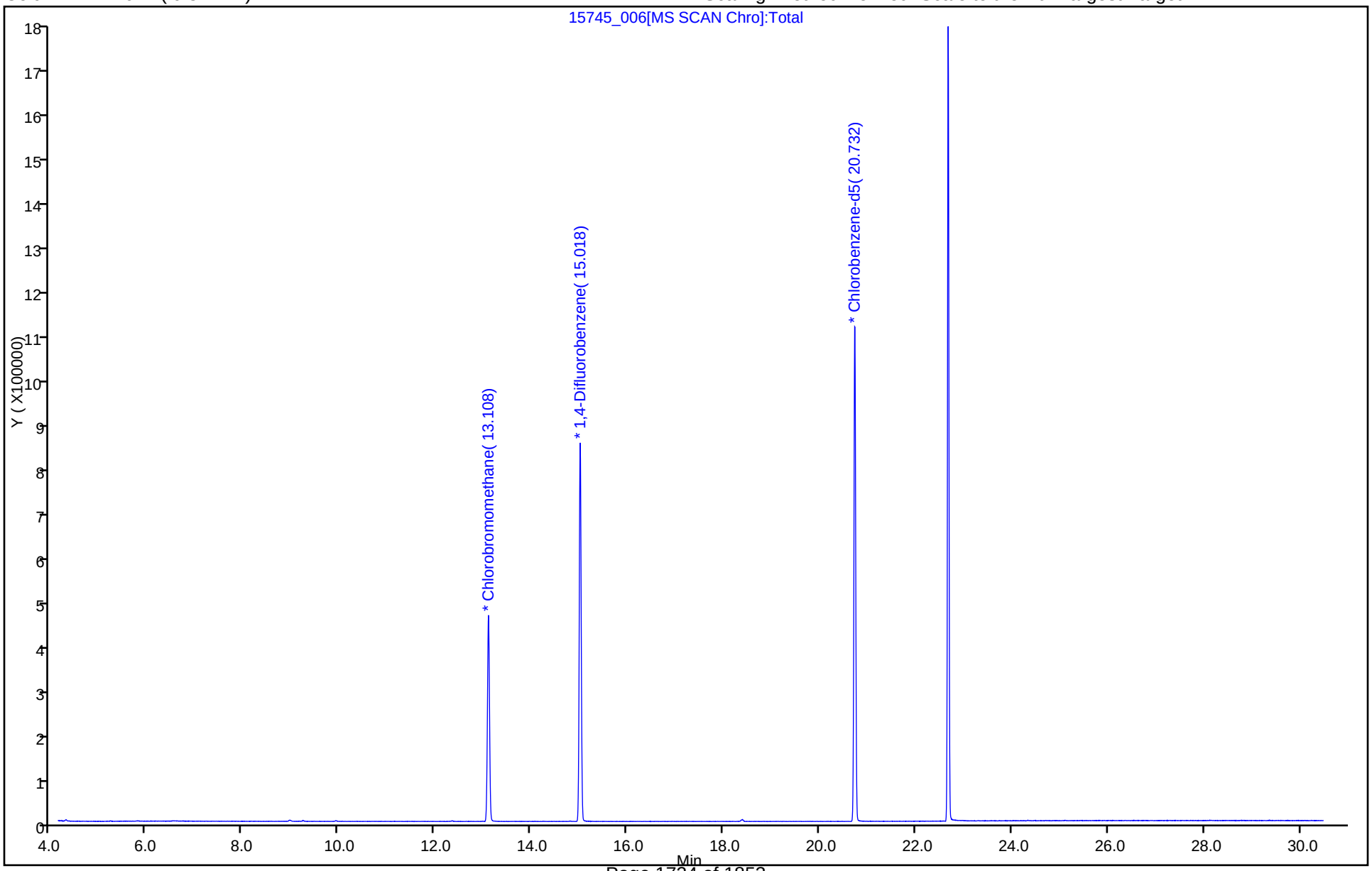
Report Date: 16-Sep-2015 12:07:11 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_006.d

Injection Date:	15-Sep-2015 14:47:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-1	Lab Sample ID:	200-29686-1	Worklist Smp#:	6
Client ID:	4286				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5438 | Lab Sample ID: 200-29686-2

Matrix: Air | Lab File ID: 15745_007.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 15:54

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5438 | Lab Sample ID: 200-29686-2

Matrix: Air | Lab File ID: 15745_007.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 15:54

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5438 Lab Sample ID: 200-29686-2

Matrix: Air Lab File ID: 15745_007.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 15:54

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_007.d
Lims ID: 200-29686-A-2 Lab Sample ID: 200-29686-2
Client ID: 5438
Sample Type: Client
Inject. Date: 15-Sep-2015 15:54:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-007
Misc. Info.: 29686-02
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:58:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45	9.240	9.224	0.016	90	2680	0.1073	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	73	222717	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	1047639	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	978273	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

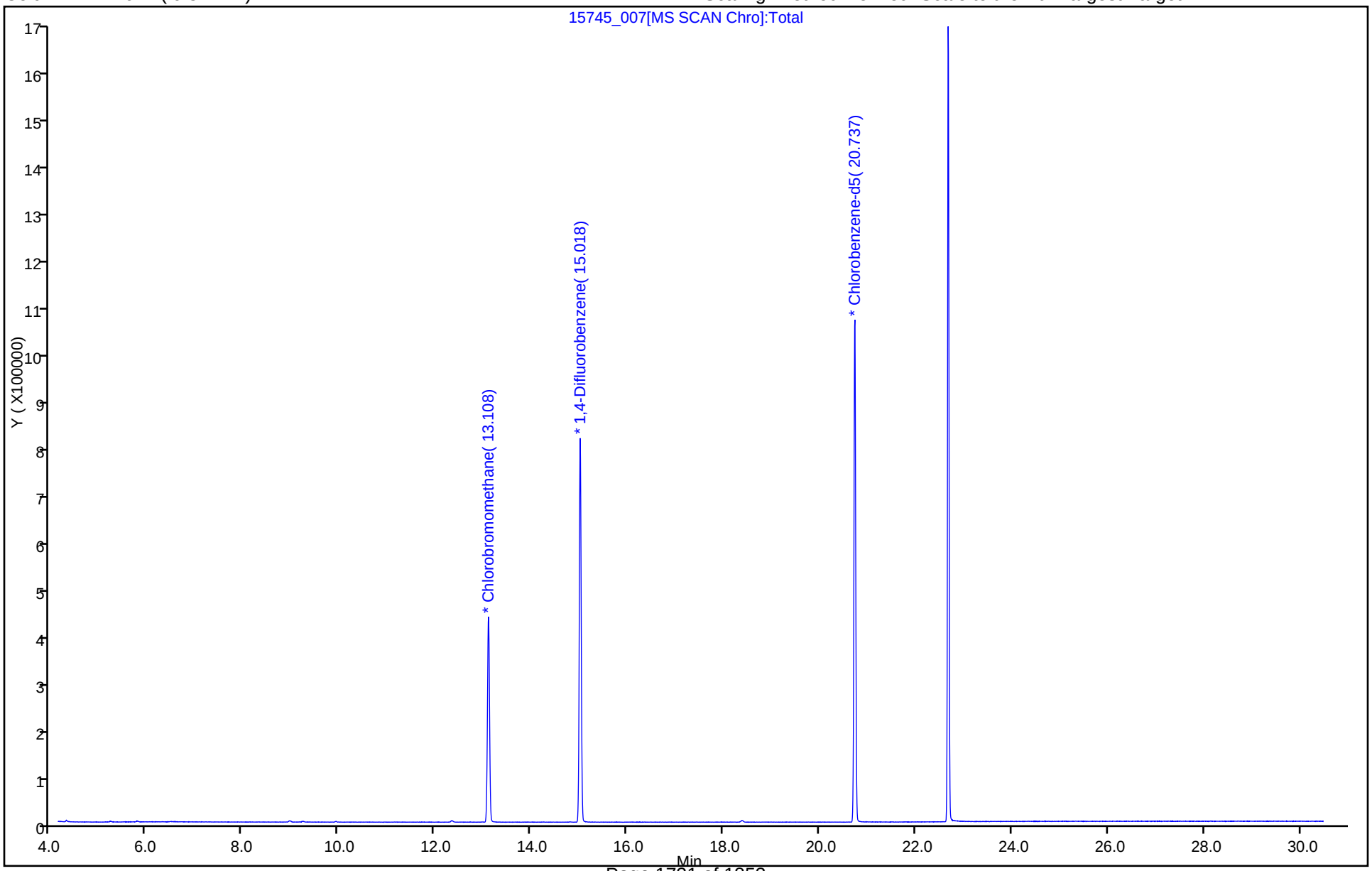
Report Date: 16-Sep-2015 12:07:12 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_007.d

Injection Date:	15-Sep-2015 15:54:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-2	Lab Sample ID:	200-29686-2	Worklist Smp#:	7
Client ID:	5438				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4315 | Lab Sample ID: 200-29686-3

Matrix: Air | Lab File ID: 15745_008.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 17:00

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4315 Lab Sample ID: 200-29686-3

Matrix: Air Lab File ID: 15745_008.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 17:00

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4315 Lab Sample ID: 200-29686-3

Matrix: Air Lab File ID: 15745_008.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 17:00

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_008.d
Lims ID: 200-29686-A-3 Lab Sample ID: 200-29686-3
Client ID: 4315
Sample Type: Client
Inject. Date: 15-Sep-2015 17:00:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-008
Misc. Info.: 29686-03
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:58:58

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.308				ND	
	2 Dichlorodifluoromethane	85		4.410				ND	
	3 Chlorodifluoromethane	51		4.484				ND	
	4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
	5 Chloromethane	50		4.993				ND	
	6 Butane	43		5.282				ND	
	7 Vinyl chloride	62		5.340				ND	
	8 Butadiene	54		5.447				ND	
	10 Bromomethane	94		6.362				ND	
	11 Chloroethane	64		6.672				ND	
	13 Vinyl bromide	106		7.170				ND	
	14 Trichlorofluoromethane	101		7.293				ND	
	17 Ethanol	45		7.951				ND	
	20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
	21 1,1-Dichloroethene	96		8.668				ND	
	22 Acetone	43		8.941				ND	
	23 Carbon disulfide	76		9.165				ND	
	24 Isopropyl alcohol	45	9.241	9.224	0.017	84	2851	0.1103	
	25 3-Chloro-1-propene	41		9.593				ND	
	27 Methylene Chloride	49		9.930				ND	
	28 2-Methyl-2-propanol	59		10.118				ND	
S	30 1,2-Dichloroethene, Total	61		10.200				ND	
	29 Methyl tert-butyl ether	73		10.374				ND	
	31 trans-1,2-Dichloroethene	61		10.433				ND	
	33 Hexane	57		10.856				ND	
	34 1,1-Dichloroethane	63		11.428				ND	
	35 Vinyl acetate	43		11.477				ND	
	37 cis-1,2-Dichloroethene	96		12.621				ND	
	38 2-Butanone (MEK)	72		12.653				ND	
	39 Ethyl acetate	88		12.675				ND	
*	40 Chlorobromomethane	128	13.108	13.108	0.000	73	230422	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	1071115	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	1012693	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

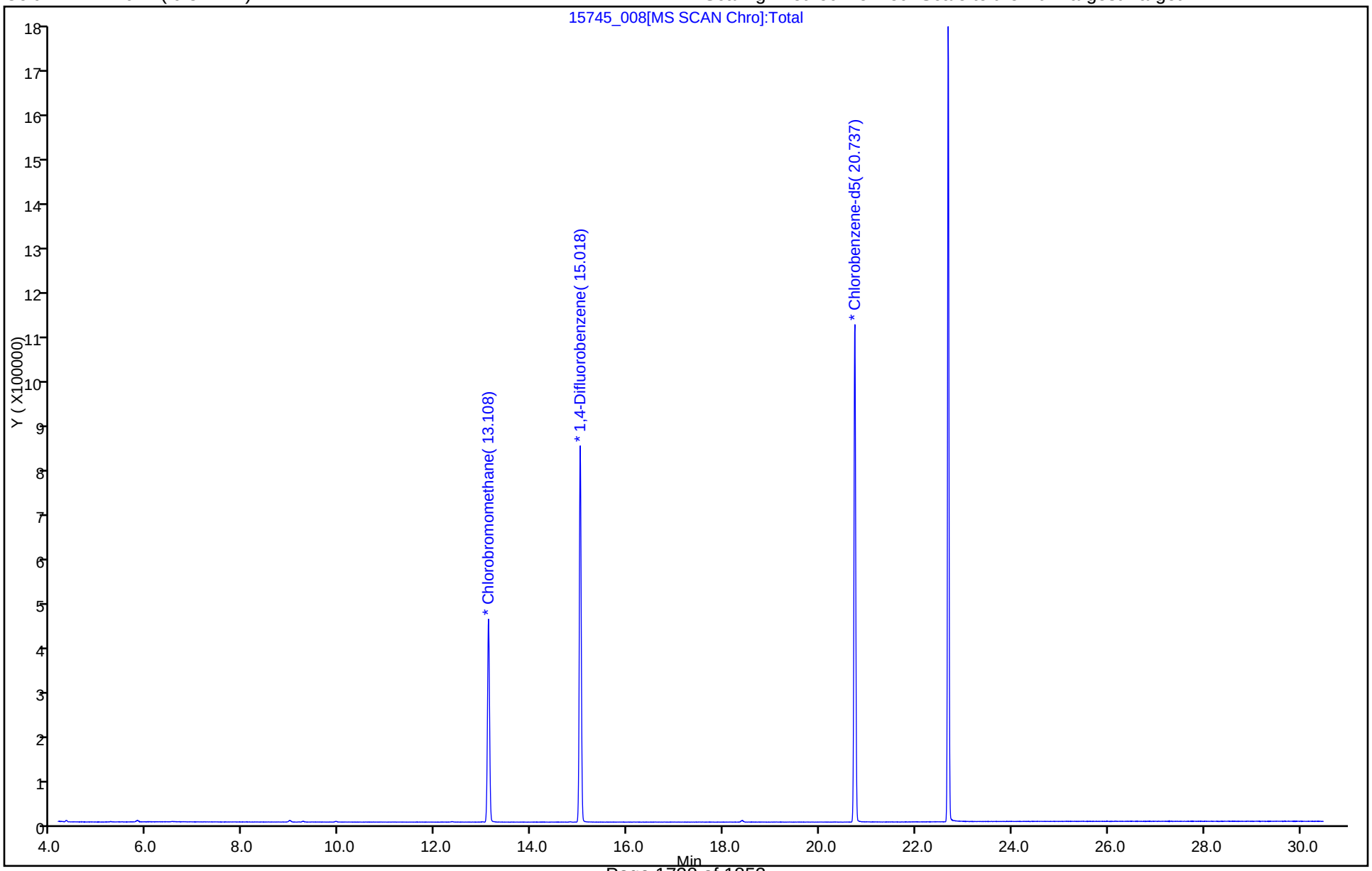
Report Date: 16-Sep-2015 12:07:14 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_008.d

Injection Date:	15-Sep-2015 17:00:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-3	Lab Sample ID:	200-29686-3	Worklist Smp#:	8
Client ID:	4315				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	7
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5148 | Lab Sample ID: 200-29686-4

Matrix: Air | Lab File ID: 15745_009.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 18:09

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5148 Lab Sample ID: 200-29686-4

Matrix: Air Lab File ID: 15745_009.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 18:09

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5148 Lab Sample ID: 200-29686-4

Matrix: Air Lab File ID: 15745_009.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 18:09

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_009.d
Lims ID: 200-29686-A-4 Lab Sample ID: 200-29686-4
Client ID: 5148
Sample Type: Client
Inject. Date: 15-Sep-2015 18:09:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-009
Misc. Info.: 29686-04
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:59:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45	9.246	9.224	0.022	89	2468	0.1034	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	74	212774	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	92	985793	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	941214	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

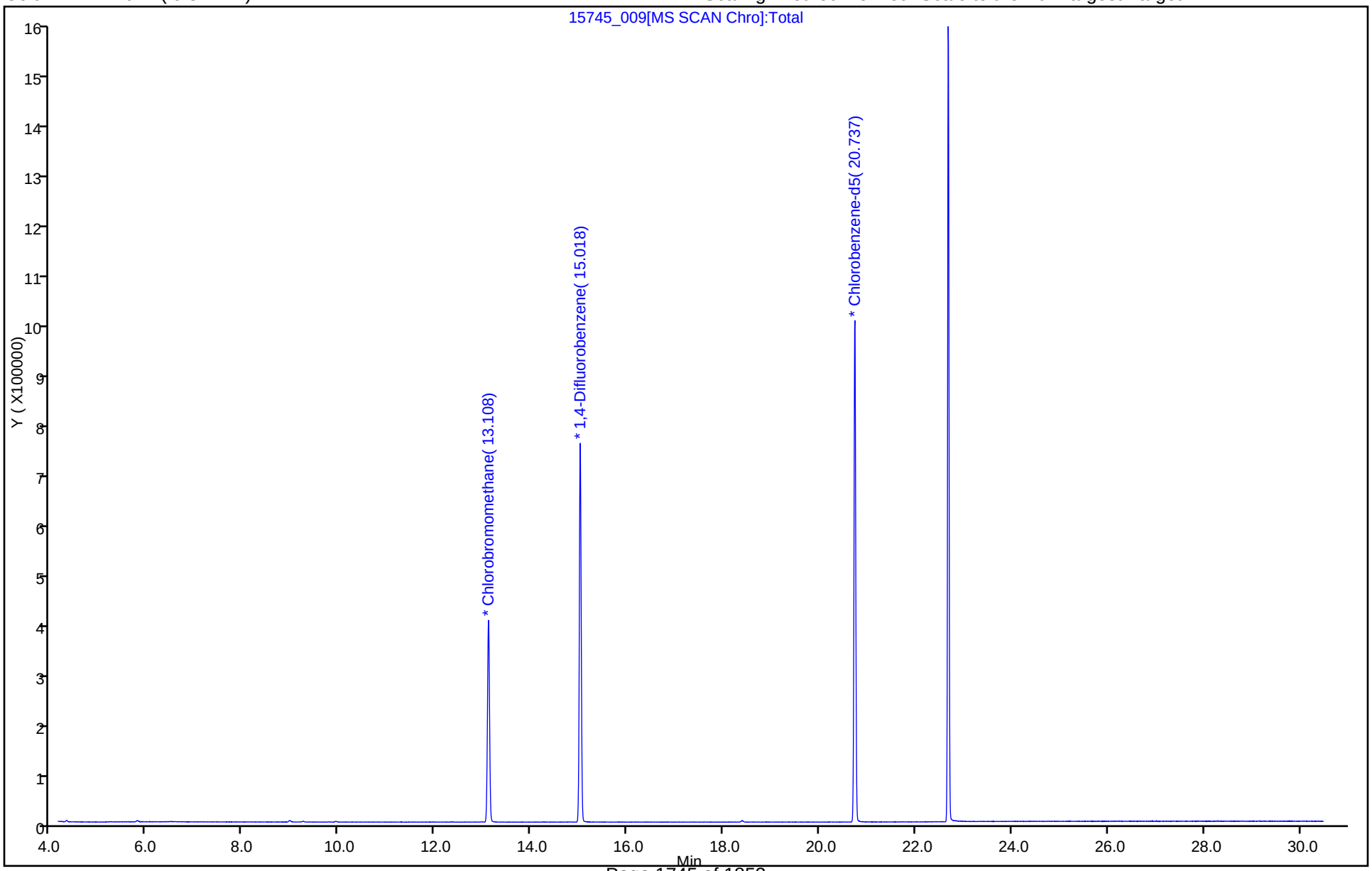
Report Date: 16-Sep-2015 12:07:15 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_009.d

Injection Date:	15-Sep-2015 18:09:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-4	Lab Sample ID:	200-29686-4	Worklist Smp#:	9
Client ID:	5148				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	8
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4365 | Lab Sample ID: 200-29686-5

Matrix: Air | Lab File ID: 15745_010.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 19:17

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4365 Lab Sample ID: 200-29686-5

Matrix: Air Lab File ID: 15745_010.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 19:17

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4365 Lab Sample ID: 200-29686-5

Matrix: Air Lab File ID: 15745_010.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 19:17

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_010.d
Lims ID: 200-29686-A-5 Lab Sample ID: 200-29686-5
Client ID: 4365
Sample Type: Client
Inject. Date: 15-Sep-2015 19:17:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-010
Misc. Info.: 29686-05
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:59:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.308				ND	
	2 Dichlorodifluoromethane	85		4.410				ND	
	3 Chlorodifluoromethane	51		4.484				ND	
	4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
	5 Chloromethane	50		4.993				ND	
	6 Butane	43		5.282				ND	
	7 Vinyl chloride	62		5.340				ND	
	8 Butadiene	54		5.447				ND	
	10 Bromomethane	94		6.362				ND	
	11 Chloroethane	64		6.672				ND	
	13 Vinyl bromide	106		7.170				ND	
	14 Trichlorofluoromethane	101		7.293				ND	
	17 Ethanol	45		7.951				ND	
	20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
	21 1,1-Dichloroethene	96		8.668				ND	
	22 Acetone	43		8.941				ND	
	23 Carbon disulfide	76		9.165				ND	
	24 Isopropyl alcohol	45	9.246	9.224	0.022	95	3000	0.1167	
	25 3-Chloro-1-propene	41		9.593				ND	
	27 Methylene Chloride	49		9.930				ND	
	28 2-Methyl-2-propanol	59		10.118				ND	
S	30 1,2-Dichloroethene, Total	61		10.200				ND	
	29 Methyl tert-butyl ether	73		10.374				ND	
	31 trans-1,2-Dichloroethene	61		10.433				ND	
	33 Hexane	57		10.856				ND	
	34 1,1-Dichloroethane	63		11.428				ND	
	35 Vinyl acetate	43		11.477				ND	
	37 cis-1,2-Dichloroethene	96		12.621				ND	
	38 2-Butanone (MEK)	72		12.653				ND	
	39 Ethyl acetate	88		12.675				ND	
*	40 Chlorobromomethane	128	13.108	13.108	0.000	74	229350	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	1055967	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	81	1006279	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

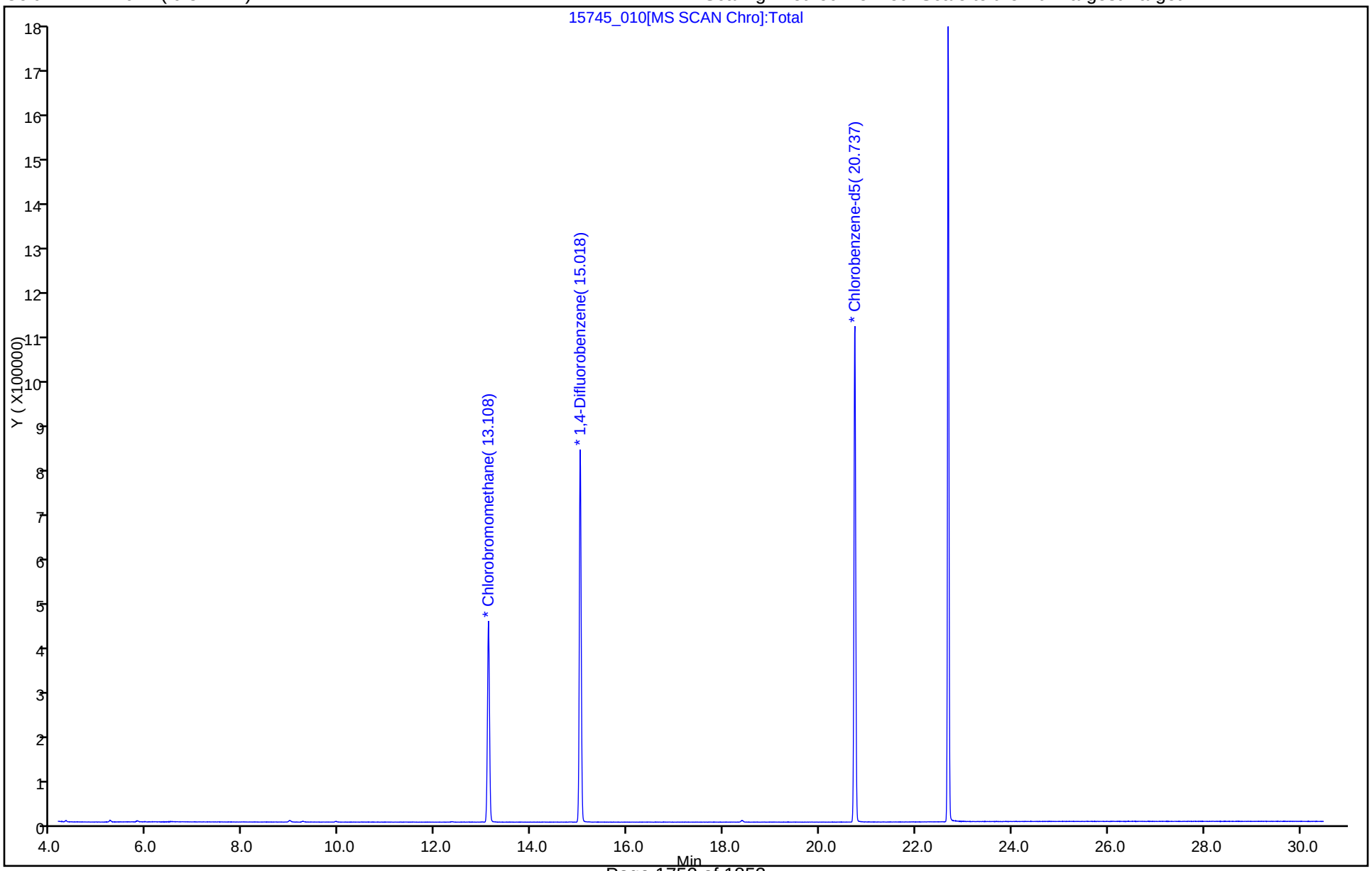
Report Date: 16-Sep-2015 12:07:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_010.d

Injection Date:	15-Sep-2015 19:17:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-5	Lab Sample ID:	200-29686-5	Worklist Smp#:	10
Client ID:	4365				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	9
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4094 | Lab Sample ID: 200-29686-6

Matrix: Air | Lab File ID: 15745_011.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 20:23

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4094 | Lab Sample ID: 200-29686-6

Matrix: Air | Lab File ID: 15745_011.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 20:23

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4094 Lab Sample ID: 200-29686-6

Matrix: Air Lab File ID: 15745_011.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 20:23

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_011.d
Lims ID: 200-29686-A-6 Lab Sample ID: 200-29686-6
Client ID: 4094
Sample Type: Client
Inject. Date: 15-Sep-2015 20:23:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-011
Misc. Info.: 29686-06
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1	Propene	41		4.308				ND	
2	Dichlorodifluoromethane	85		4.410				ND	
3	Chlorodifluoromethane	51		4.484				ND	
4	1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5	Chloromethane	50		4.993				ND	
6	Butane	43		5.282				ND	
7	Vinyl chloride	62		5.340				ND	
8	Butadiene	54		5.447				ND	
10	Bromomethane	94		6.362				ND	
11	Chloroethane	64		6.672				ND	
13	Vinyl bromide	106		7.170				ND	
14	Trichlorofluoromethane	101		7.293				ND	
17	Ethanol	45		7.951				ND	
20	1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21	1,1-Dichloroethene	96		8.668				ND	
22	Acetone	43		8.941				ND	
23	Carbon disulfide	76		9.165				ND	
24	Isopropyl alcohol	45	9.262	9.224	0.038	86	2467	0.0978	
25	3-Chloro-1-propene	41		9.593				ND	
27	Methylene Chloride	49		9.930				ND	
28	2-Methyl-2-propanol	59		10.118				ND	
S 30	1,2-Dichloroethene, Total	61		10.200				ND	
29	Methyl tert-butyl ether	73		10.374				ND	
31	trans-1,2-Dichloroethene	61		10.433				ND	
33	Hexane	57		10.856				ND	
34	1,1-Dichloroethane	63		11.428				ND	
35	Vinyl acetate	43		11.477				ND	
37	cis-1,2-Dichloroethene	96		12.621				ND	
38	2-Butanone (MEK)	72		12.653				ND	
39	Ethyl acetate	88		12.675				ND	
* 40	Chlorobromomethane	128	13.114	13.108	0.006	79	224905	10.0	
41	Tetrahydrofuran	42		13.114				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.024	15.018	0.006	92	1031335	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	980691	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

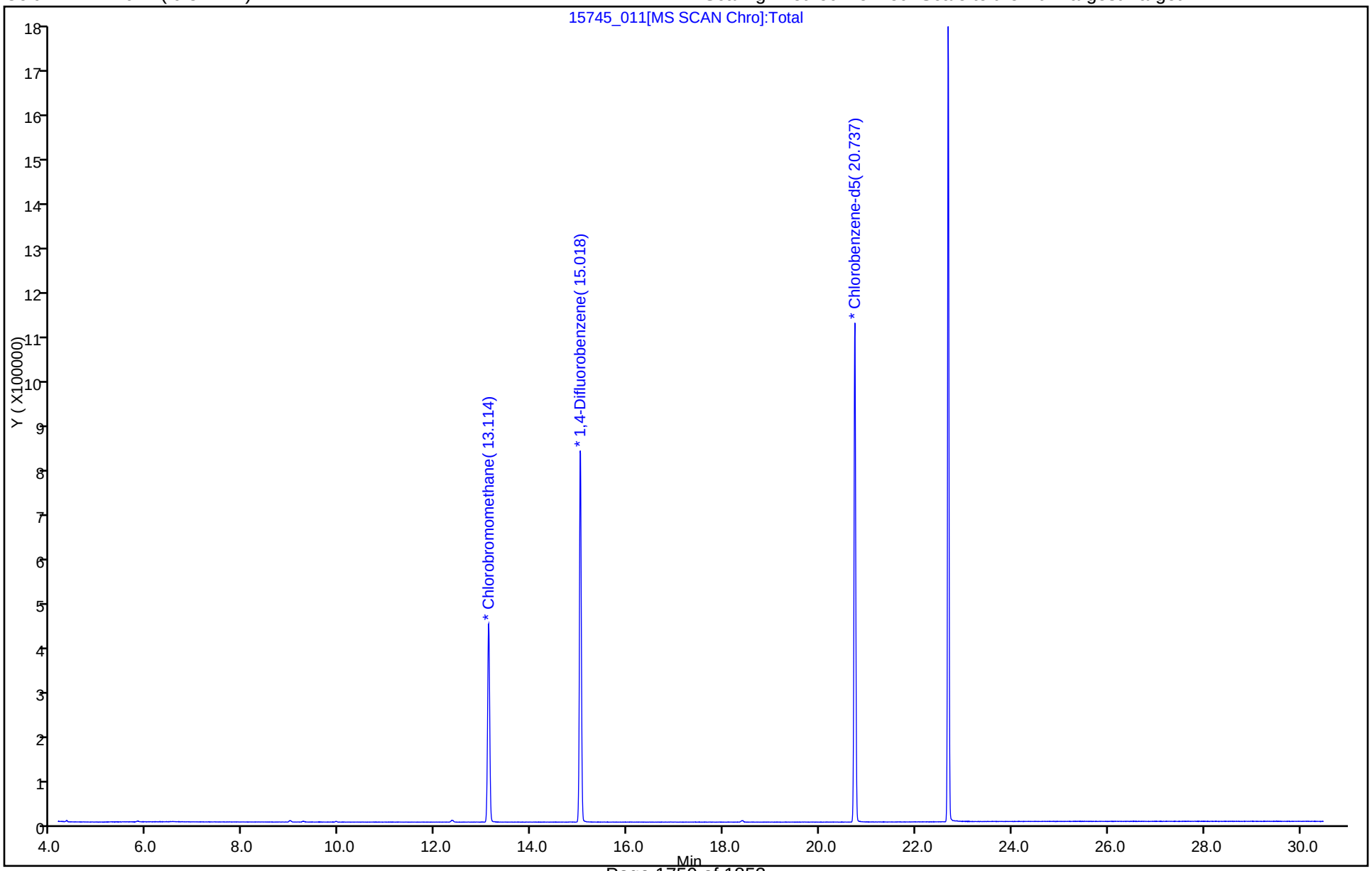
Report Date: 16-Sep-2015 12:07:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_011.d

Injection Date:	15-Sep-2015 20:23:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-6	Lab Sample ID:	200-29686-6	Worklist Smp#:	11
Client ID:	4094				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	10
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 3033 | Lab Sample ID: 200-29686-7

Matrix: Air | Lab File ID: 15745_012.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 21:28

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 3033 Lab Sample ID: 200-29686-7

Matrix: Air Lab File ID: 15745_012.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 21:28

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 3033 Lab Sample ID: 200-29686-7

Matrix: Air Lab File ID: 15745_012.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 21:28

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_012.d
Lims ID: 200-29686-A-7 Lab Sample ID: 200-29686-7
Client ID: 3033
Sample Type: Client
Inject. Date: 15-Sep-2015 21:28:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-012
Misc. Info.: 29686-07
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 11:59:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45	9.251	9.224	0.027	88	2181	0.0934	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	76	208225	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	946146	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	897769	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

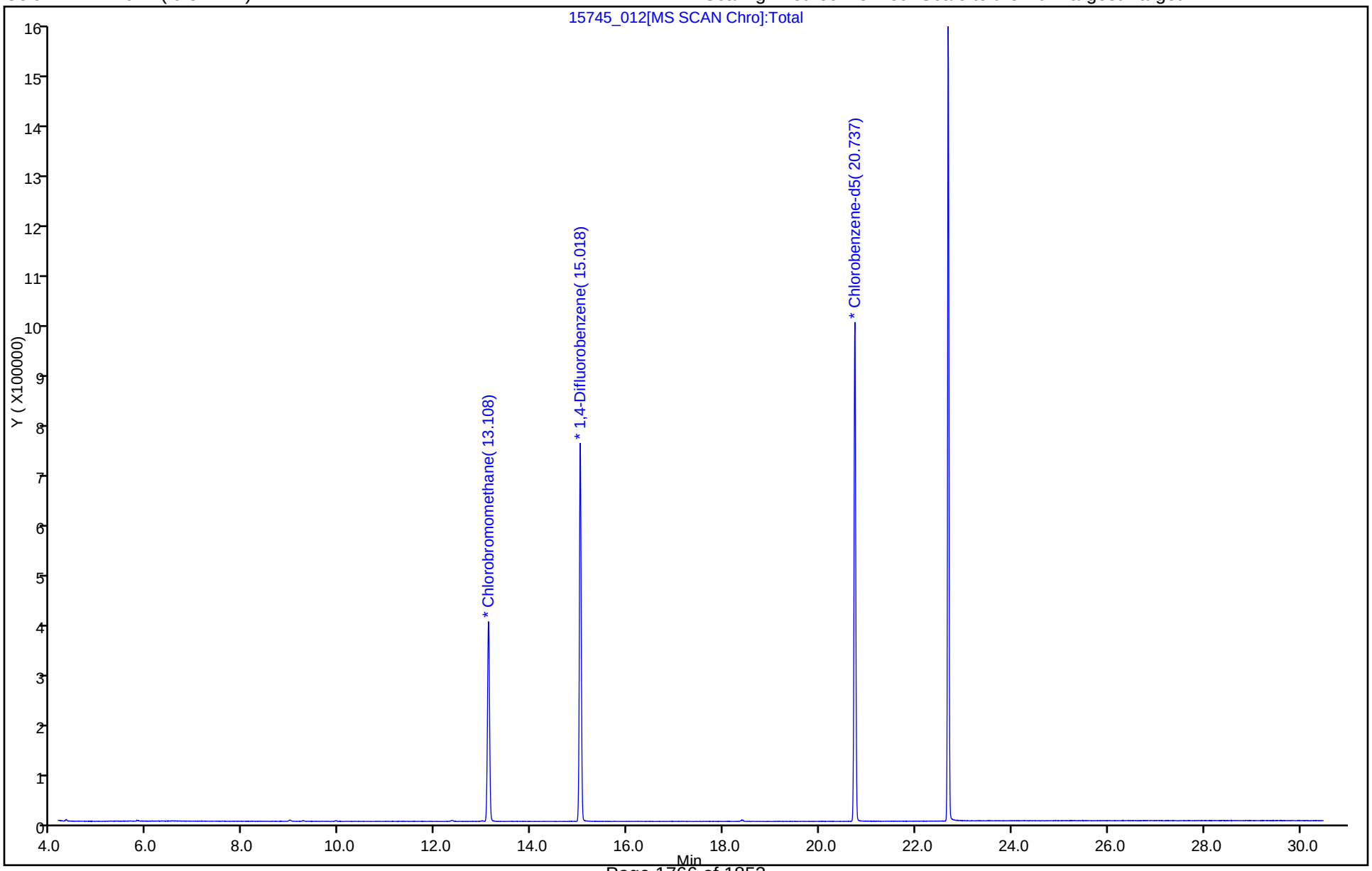
Report Date: 16-Sep-2015 12:07:19 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_012.d

Injection Date:	15-Sep-2015 21:28:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-7	Lab Sample ID:	200-29686-7	Worklist Smp#:	12
Client ID:	3033				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	11
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4803 | Lab Sample ID: 200-29686-8

Matrix: Air | Lab File ID: 15745_013.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 22:36

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4803 Lab Sample ID: 200-29686-8

Matrix: Air Lab File ID: 15745_013.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 22:36

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4803 Lab Sample ID: 200-29686-8

Matrix: Air Lab File ID: 15745_013.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 22:36

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_013.d
Lims ID: 200-29686-A-8 Lab Sample ID: 200-29686-8
Client ID: 4803
Sample Type: Client
Inject. Date: 15-Sep-2015 22:36:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-013
Misc. Info.: 29686-08
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 12:00:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45	9.246	9.224	0.022	87	2321	0.0985	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	79	210052	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	956567	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	913735	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

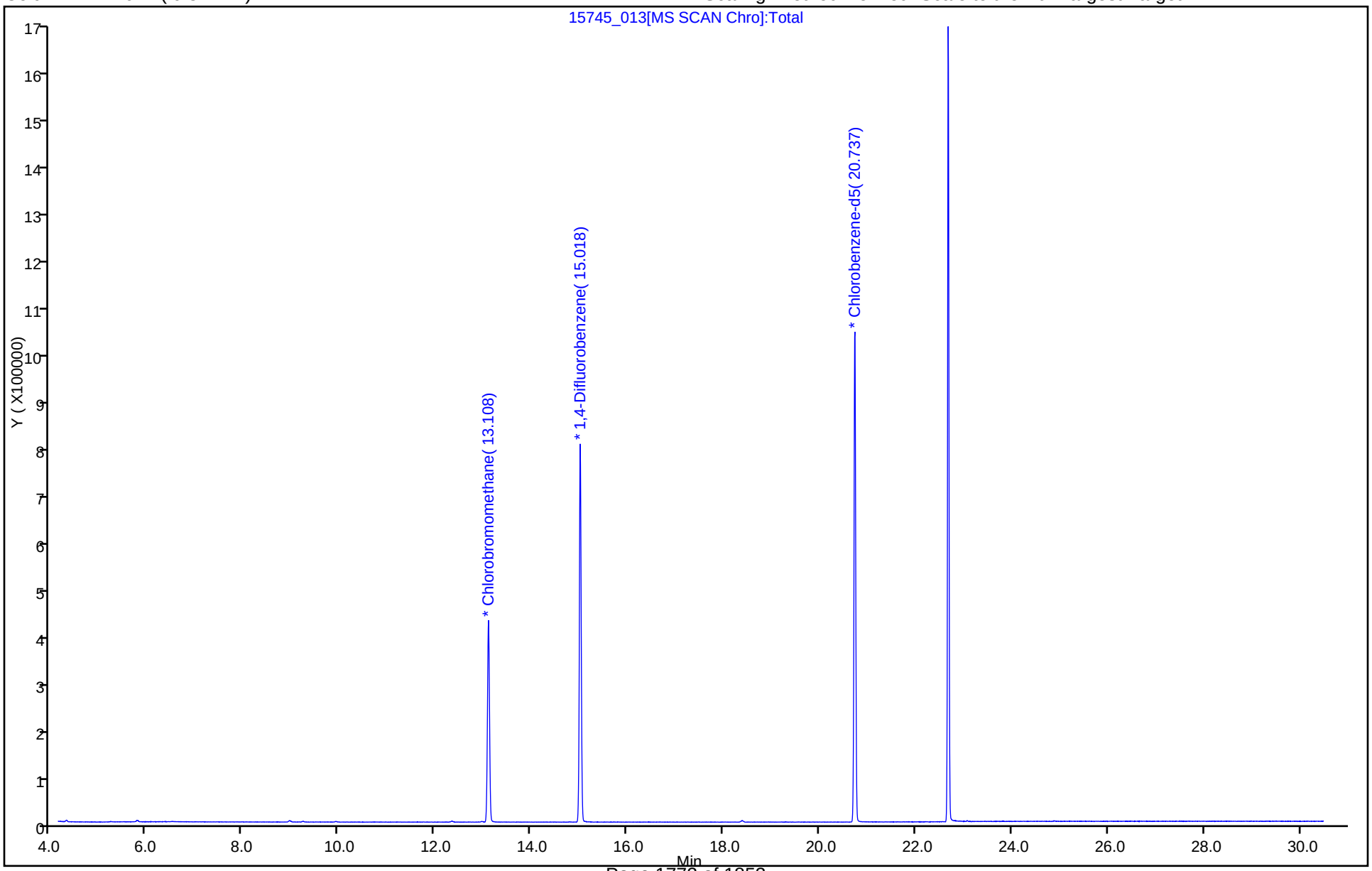
Report Date: 16-Sep-2015 12:07:20 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_013.d

Injection Date:	15-Sep-2015 22:36:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-8	Lab Sample ID:	200-29686-8	Worklist Smp#:	13
Client ID:	4803				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	12
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 2885 | Lab Sample ID: 200-29686-9

Matrix: Air | Lab File ID: 15745_014.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 23:42

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 2885 | Lab Sample ID: 200-29686-9

Matrix: Air | Lab File ID: 15745_014.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/15/2015 23:42

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 2885 Lab Sample ID: 200-29686-9

Matrix: Air Lab File ID: 15745_014.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/15/2015 23:42

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_014.d
Lims ID: 200-29686-A-9 Lab Sample ID: 200-29686-9
Client ID: 2885
Sample Type: Client
Inject. Date: 15-Sep-2015 23:42:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-014
Misc. Info.: 29686-09
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 12:00:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45		9.224				ND	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	74	213874	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	979904	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	904959	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

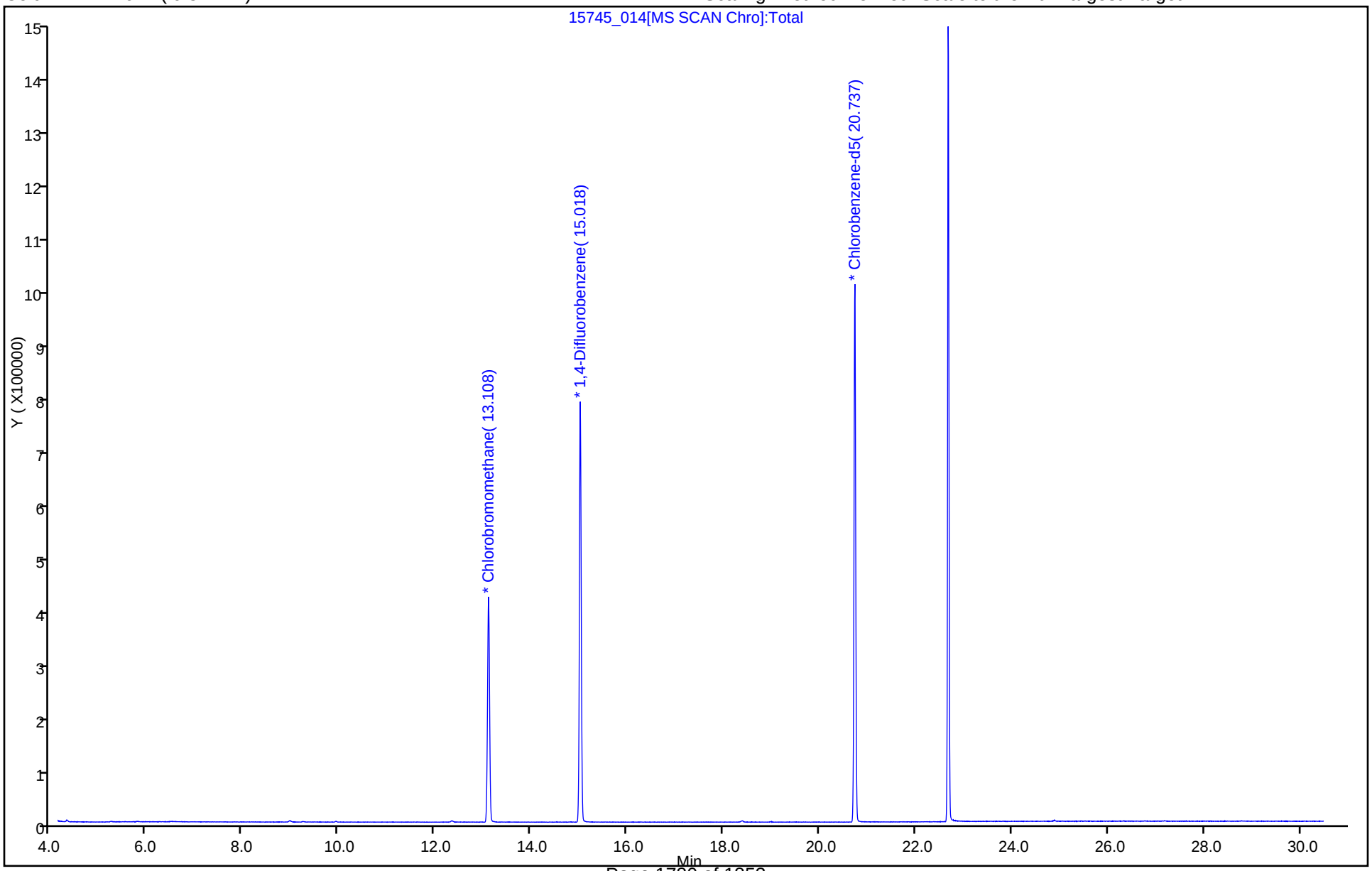
Report Date: 16-Sep-2015 12:07:21 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_014.d

Injection Date:	15-Sep-2015 23:42:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-9	Lab Sample ID:	200-29686-9	Worklist Smp#:	14
Client ID:	2885				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	13
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4577 | Lab Sample ID: 200-29686-10

Matrix: Air | Lab File ID: 15745_015.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/16/2015 00:49

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4577 Lab Sample ID: 200-29686-10

Matrix: Air Lab File ID: 15745_015.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/16/2015 00:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 4577 Lab Sample ID: 200-29686-10

Matrix: Air Lab File ID: 15745_015.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/16/2015 00:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_015.d
Lims ID: 200-29686-A-10 Lab Sample ID: 200-29686-10
Client ID: 4577
Sample Type: Client
Inject. Date: 16-Sep-2015 00:49:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-015
Misc. Info.: 29686-10
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 12:00:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45		9.224				ND	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	75	214881	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	981502	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	937448	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

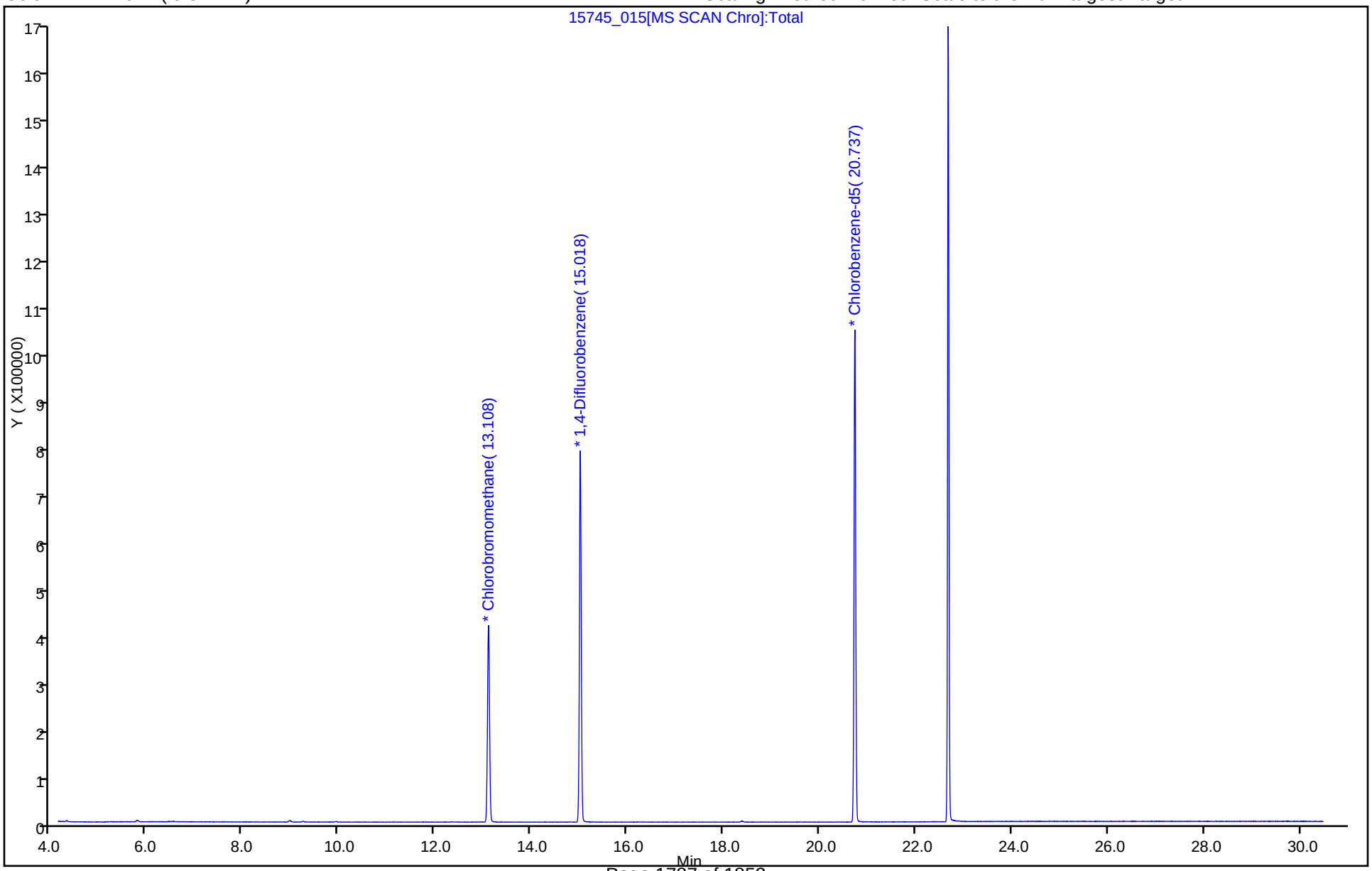
Report Date: 16-Sep-2015 12:07:23 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_015.d

Injection Date:	16-Sep-2015 00:49:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-10	Lab Sample ID:	200-29686-10	Worklist Smp#:	15
Client ID:	4577				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	14
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5042 | Lab Sample ID: 200-29686-11

Matrix: Air | Lab File ID: 15745_016.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/16/2015 01:55

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5042 Lab Sample ID: 200-29686-11

Matrix: Air Lab File ID: 15745_016.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/16/2015 01:55

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5042 Lab Sample ID: 200-29686-11

Matrix: Air Lab File ID: 15745_016.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/16/2015 01:55

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_016.d
Lims ID: 200-29686-A-11 Lab Sample ID: 200-29686-11
Client ID: 5042
Sample Type: Client
Inject. Date: 16-Sep-2015 01:55:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-016
Misc. Info.: 29686-11
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 12:01:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50		4.993				ND	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45	9.251	9.224	0.027	93	2365	0.0986	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49	9.931	9.930	0.001	86	1407	0.0652	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.108	13.108	0.000	75	213934	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	971823	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	83	924603	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

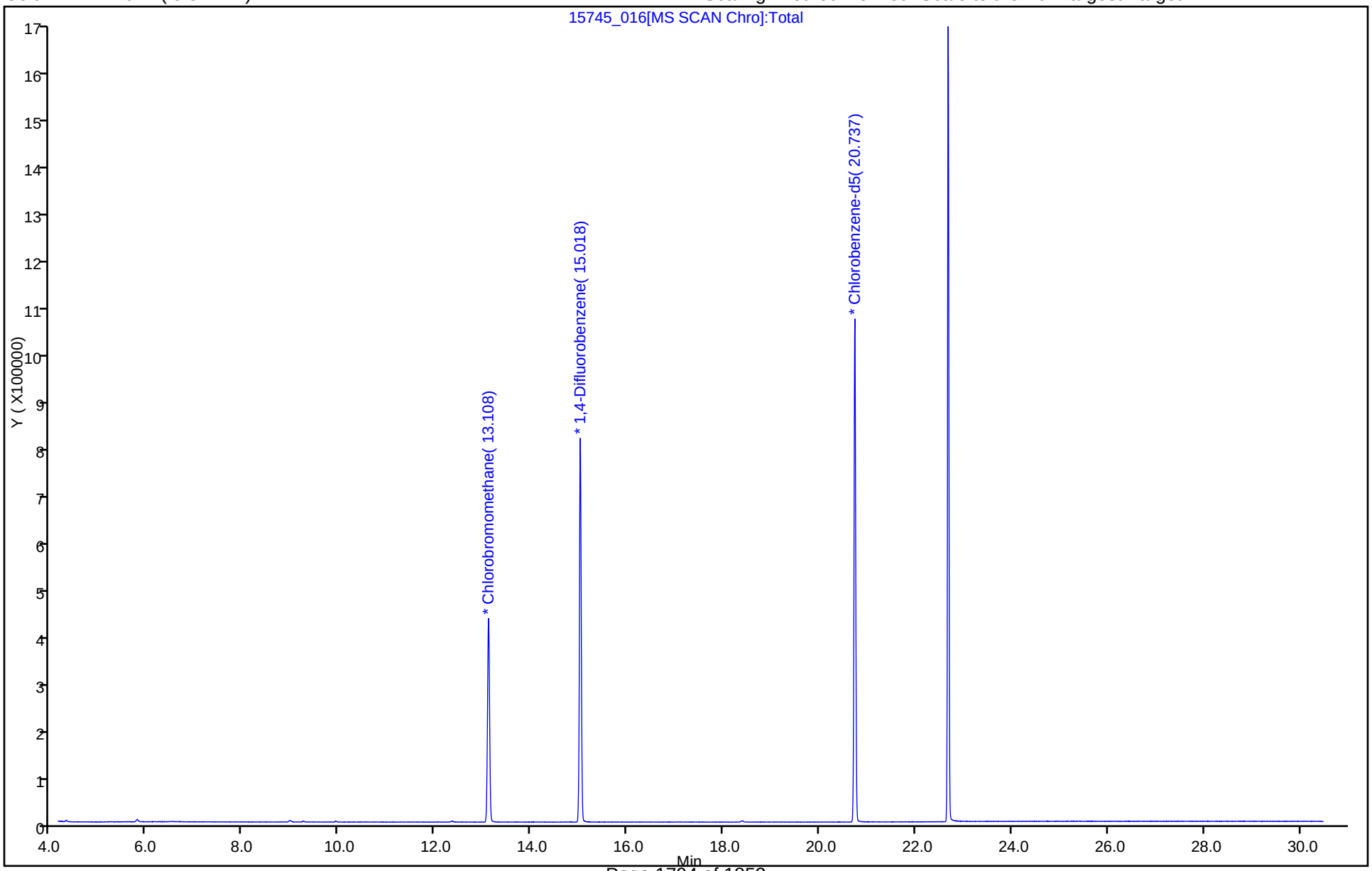
Report Date: 16-Sep-2015 12:07:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_016.d

Injection Date:	16-Sep-2015 01:55:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-11	Lab Sample ID:	200-29686-11	Worklist Smp#:	16
Client ID:	5042				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	15
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5982 | Lab Sample ID: 200-29686-12

Matrix: Air | Lab File ID: 15745_017.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/16/2015 03:02

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5982 | Lab Sample ID: 200-29686-12

Matrix: Air | Lab File ID: 15745_017.d

Analysis Method: TO-15 | Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/16/2015 03:02

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 93960 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Client Sample ID: 5982 Lab Sample ID: 200-29686-12

Matrix: Air Lab File ID: 15745_017.d

Analysis Method: TO-15 Date Collected: 09/10/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/16/2015 03:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 93960 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_017.d
Lims ID: 200-29686-A-12 Lab Sample ID: 200-29686-12
Client ID: 5982
Sample Type: Client
Inject. Date: 16-Sep-2015 03:02:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015745-017
Misc. Info.: 29686-12
Operator ID: pad Instrument ID: CHW.i

Method: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\TO15_MasterMethod_(v1).m
Limit Group: AI_TO15_ICAL
Last Update: 16-Sep-2015 12:07:06 Calib Date: 13-Aug-2015 23:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276_012.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: daiglep Date: 16-Sep-2015 12:01:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.308				ND	
2 Dichlorodifluoromethane	85		4.410				ND	
3 Chlorodifluoromethane	51		4.484				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.795				ND	
5 Chloromethane	50	5.014	4.993	0.021	93	2050	0.1200	
6 Butane	43		5.282				ND	
7 Vinyl chloride	62		5.340				ND	
8 Butadiene	54		5.447				ND	
10 Bromomethane	94		6.362				ND	
11 Chloroethane	64		6.672				ND	
13 Vinyl bromide	106		7.170				ND	
14 Trichlorofluoromethane	101		7.293				ND	
17 Ethanol	45		7.951				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.668				ND	
22 Acetone	43		8.941				ND	
23 Carbon disulfide	76		9.165				ND	
24 Isopropyl alcohol	45		9.224				ND	
25 3-Chloro-1-propene	41		9.593				ND	
27 Methylene Chloride	49		9.930				ND	
28 2-Methyl-2-propanol	59		10.118				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.374				ND	
31 trans-1,2-Dichloroethene	61		10.433				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.653				ND	
39 Ethyl acetate	88		12.675				ND	
* 40 Chlorobromomethane	128	13.114	13.108	0.006	75	204316	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		13.114				ND	
	42 Chloroform	83		13.215				ND	
	43 Cyclohexane	84		13.515				ND	
	44 1,1,1-Trichloroethane	97		13.536				ND	
	45 Carbon tetrachloride	117		13.788				ND	
	46 Isooctane	57		14.189				ND	
	47 Benzene	78		14.253				ND	
	48 1,2-Dichloroethane	62		14.419				ND	
	49 n-Heptane	43		14.531				ND	
*	50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	934340	10.0	
	53 Trichloroethene	95		15.478				ND	
	54 1,2-Dichloropropane	63		16.024				ND	
	55 Methyl methacrylate	69		16.099				ND	
	56 1,4-Dioxane	88		16.195				ND	
	57 Dibromomethane	174		16.259				ND	
	58 Dichlorobromomethane	83		16.505				ND	
	60 cis-1,3-Dichloropropene	75		17.377				ND	
	61 4-Methyl-2-pentanone (MIBK	43		17.629				ND	
	65 Toluene	92		17.960				ND	
	66 trans-1,3-Dichloropropene	75		18.490				ND	
	67 1,1,2-Trichloroethane	83		18.864				ND	
	68 Tetrachloroethene	166		18.993				ND	
	69 2-Hexanone	43		19.266				ND	
	71 Chlorodibromomethane	129		19.619				ND	
	72 Ethylene Dibromide	107		19.918				ND	
S	73 Xylenes, Total	106		20.100				ND	
*	74 Chlorobenzene-d5	117	20.737	20.731	0.006	85	887021	10.0	
	75 Chlorobenzene	112		20.790				ND	
	76 Ethylbenzene	91		20.897				ND	
	78 m-Xylene & p-Xylene	106		21.106				ND	
	79 o-Xylene	106		21.801				ND	
	80 Styrene	104		21.839				ND	
	81 Bromoform	173		22.208				ND	
	82 Isopropylbenzene	105		22.352				ND	
	84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
	85 N-Propylbenzene	91		22.978				ND	
	88 4-Ethyltoluene	105		23.144				ND	
	89 2-Chlorotoluene	91		23.176				ND	
	90 1,3,5-Trimethylbenzene	105		23.235				ND	
	92 tert-Butylbenzene	119		23.722				ND	
	93 1,2,4-Trimethylbenzene	105		23.813				ND	
	94 sec-Butylbenzene	105		24.059				ND	
	95 4-Isopropyltoluene	119		24.268				ND	
	96 1,3-Dichlorobenzene	146		24.337				ND	
	97 1,4-Dichlorobenzene	146		24.487				ND	
	98 Benzyl chloride	91		24.706				ND	
	100 n-Butylbenzene	91		24.926				ND	
	101 1,2-Dichlorobenzene	146		25.113				ND	
	103 1,2,4-Trichlorobenzene	180		28.135				ND	
	104 Hexachlorobutadiene	225		28.349				ND	
	105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs_00003 Amount Added: 20.00 Units: mL Run Reagent

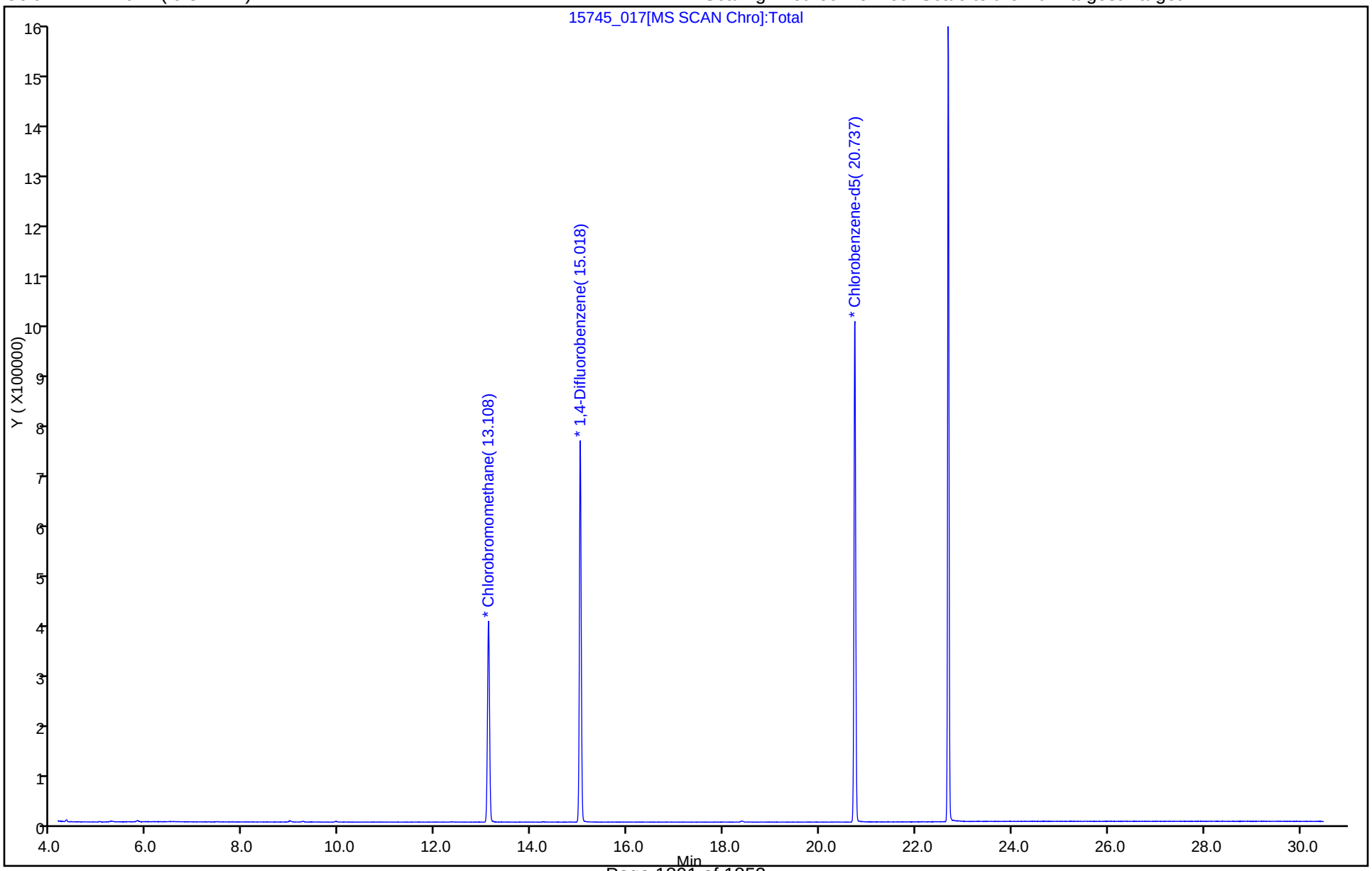
Report Date: 16-Sep-2015 12:07:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150915-15745.b\15745_017.d

Injection Date:	16-Sep-2015 03:02:30	Instrument ID:	CHW.i	Operator ID:	pad
Lims ID:	200-29686-A-12	Lab Sample ID:	200-29686-12	Worklist Smp#:	17
Client ID:	5982				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	16
Method:	TO15_MasterMethod_(v1)	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-29753-1

SDG No.:

Client Sample ID: 4455 | Lab Sample ID: 200-29753-5

Matrix: Air | Lab File ID: 15772_28.D

Analysis Method: TO-15 | Date Collected: 09/15/2015 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/17/2015 10:18

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 94025 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Client Sample ID: 4455 Lab Sample ID: 200-29753-5

Matrix: Air Lab File ID: 15772_28.D

Analysis Method: TO-15 Date Collected: 09/15/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/17/2015 10:18

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94025 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Client Sample ID: 4455 Lab Sample ID: 200-29753-5

Matrix: Air Lab File ID: 15772_28.D

Analysis Method: TO-15 Date Collected: 09/15/2015 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/17/2015 10:18

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 94025 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150916-15772.b\15772_28.D
Lims ID: 200-29753-A-5 Lab Sample ID: 200-29753-5
Client ID: 4455
Sample Type: Client
Inject. Date: 17-Sep-2015 10:18:30 ALS Bottle#: 4 Worklist Smp#: 28
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0015772-028
Misc. Info.: 29753-5
Operator ID: wrd Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20150916-15772.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Sep-2015 16:02:09 Calib Date: 17-Aug-2015 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: desjardinsb Date: 17-Sep-2015 16:02:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.108				ND	
2 Dichlorodifluoromethane	85		3.178				ND	
3 Chlorodifluoromethane	51		3.226				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.440				ND	
5 Chloromethane	50		3.579				ND	
6 Butane	43		3.771				ND	
7 Vinyl chloride	62		3.819				ND	
8 Butadiene	54		3.894				ND	
9 Bromomethane	94		4.563				ND	
10 Chloroethane	64		4.793				ND	
12 Vinyl bromide	106		5.168				ND	
13 Trichlorofluoromethane	101		5.264				ND	
15 Ethanol	45		5.852				ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.302				ND	
20 1,1-Dichloroethene	96		6.355				ND	
21 Acetone	43	6.665	6.607	0.058	85	2511	0.2157	
22 Carbon disulfide	76		6.751				ND	
23 Isopropyl alcohol	45		6.917				ND	
24 3-Chloro-1-propene	41		7.126				ND	
26 Methylene Chloride	49	7.409	7.414	-0.005	82	1229	0.1254	
28 2-Methyl-2-propanol	59		7.698				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.842				ND	
32 Hexane	57		8.212				ND	
33 1,1-Dichloroethane	63		8.714				ND	
34 Vinyl acetate	43		8.784				ND	
35 cis-1,2-Dichloroethene	96		9.816				ND	
36 2-Butanone (MEK)	72		9.881				ND	
37 Ethyl acetate	88		9.907				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.282	10.293	-0.011	77	132996	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	39 Tetrahydrofuran	42		10.309				ND	
	41 Chloroform	83		10.416				ND	
	42 Cyclohexane	84		10.656				ND	
	43 1,1,1-Trichloroethane	97		10.694				ND	
	44 Carbon tetrachloride	117		10.940				ND	
	45 Isooctane	57		11.368				ND	
	46 Benzene	78		11.416				ND	
	47 1,2-Dichloroethane	62		11.609				ND	
	48 n-Heptane	43		11.758				ND	
*	50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	92	731807	10.0	
	52 Trichloroethene	95		12.748				ND	
	53 1,2-Dichloropropane	63		13.337				ND	
	54 Methyl methacrylate	69		13.497				ND	
	55 1,4-Dioxane	88		13.577				ND	
	56 Dibromomethane	174		13.609				ND	
	57 Dichlorobromomethane	83		13.909				ND	
	58 cis-1,3-Dichloropropene	75		14.877				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.193				ND	
	62 Toluene	92		15.482				ND	
	67 trans-1,3-Dichloropropene	75		16.102				ND	
	68 1,1,2-Trichloroethane	83		16.488				ND	
	69 Tetrachloroethene	166		16.584				ND	
	70 2-Hexanone	43		16.953				ND	
	71 Chlorodibromomethane	129		17.269				ND	
	72 Ethylene Dibromide	107		17.552				ND	
*	73 Chlorobenzene-d5	117	18.451	18.451	0.000	82	746752	10.0	
	74 Chlorobenzene	112		18.515				ND	
	75 Ethylbenzene	91		18.654				ND	
	77 m-Xylene & p-Xylene	106		18.906				ND	
	78 o-Xylene	106		19.724				ND	
	79 Styrene	104		19.772				ND	
S	80 Xylenes, Total	106		20.000				ND	
	81 Bromoform	173		20.184				ND	
	82 Isopropylbenzene	105		20.361				ND	
	85 1,1,2,2-Tetrachloroethane	83		20.987				ND	
	86 N-Propylbenzene	91		21.040				ND	
	89 4-Ethyltoluene	105		21.222				ND	
	90 2-Chlorotoluene	91		21.243				ND	
	91 1,3,5-Trimethylbenzene	105		21.318				ND	
	93 tert-Butylbenzene	119		21.794				ND	
	94 1,2,4-Trimethylbenzene	105		21.885				ND	
	95 sec-Butylbenzene	105		22.105				ND	
	96 4-Isopropyltoluene	119	22.303	22.303	0.000	94	1379	0.0132	
	97 1,3-Dichlorobenzene	146		22.351				ND	
	98 1,4-Dichlorobenzene	146		22.490				ND	
	99 Benzyl chloride	91		22.693				ND	
	101 n-Butylbenzene	91		22.891				ND	
	102 1,2-Dichlorobenzene	146		23.046				ND	
	104 1,2,4-Trichlorobenzene	180		25.678				ND	
	105 Hexachlorobutadiene	225		25.860				ND	
	106 Naphthalene	128		26.208				ND	

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

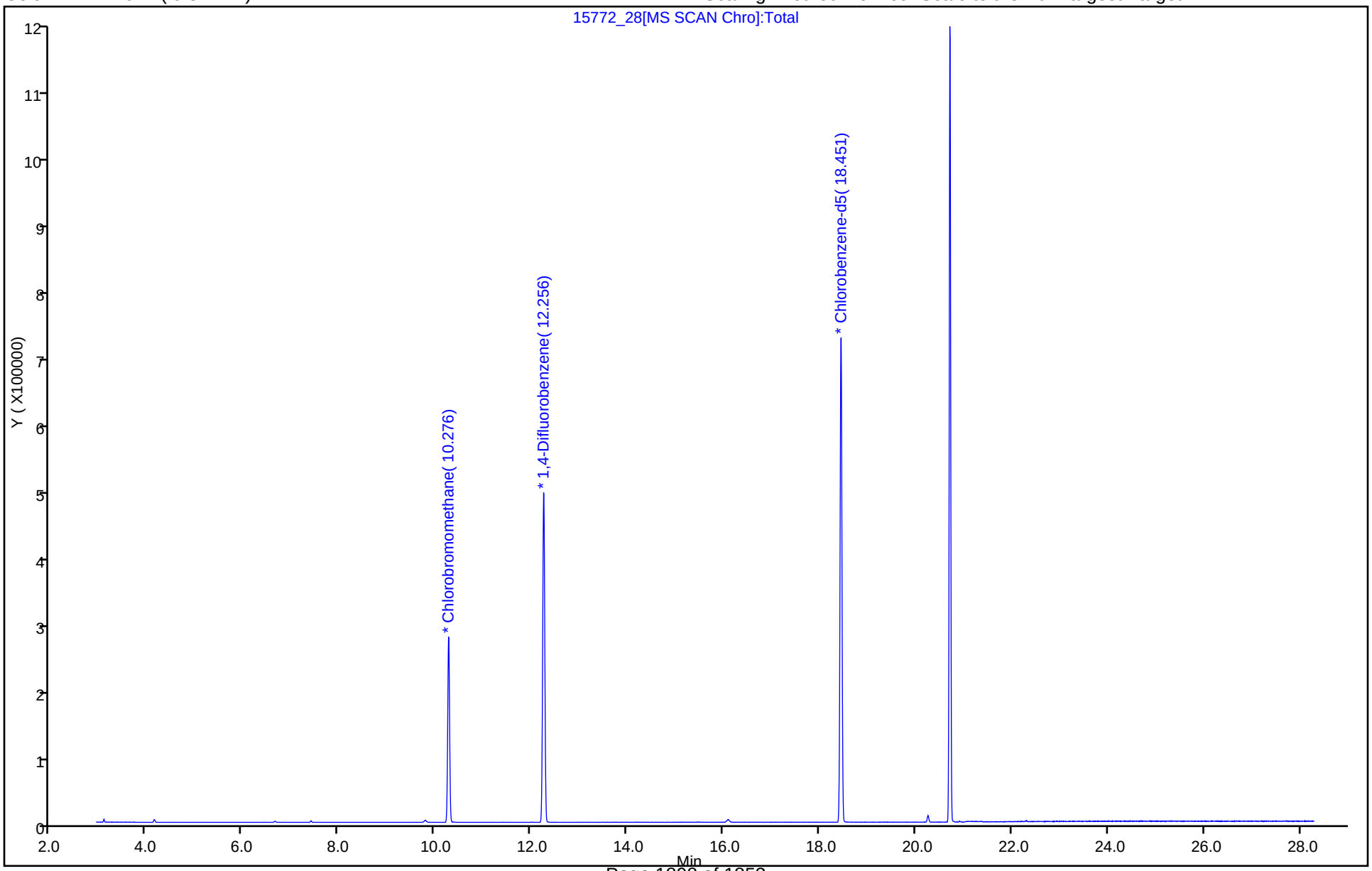
Report Date: 17-Sep-2015 16:02:10 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150916-15772.b\15772_28.D

Injection Date:	17-Sep-2015 10:18:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-29753-A-5	Lab Sample ID:	200-29753-5	Worklist Smp#:	28
Client ID:	4455				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92714/4	15276_004.d
Level 2	IC 200-92714/6	15276_006.d
Level 3	IC 200-92714/7	15276_007.d
Level 4	IC 200-92714/8	15276_008.d
Level 5	ICIS 200-92714/9	15276_009.d
Level 6	IC 200-92714/10	15276_010.d
Level 7	IC 200-92714/11	15276_011.d
Level 8	IC 200-92714/12	15276_012.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.6297	+++++ 0.6282	+++++ 0.5401	0.6681	0.6705	Ave		0.6273				8.4		30.0			
Dichlorodifluoromethane	+++++ 3.1633	+++++ 3.2010	3.6516 2.7992	3.1951	3.3199	Ave		3.2217				8.5		30.0			
Freon 22	+++++ 1.4054	+++++ 1.4066	1.7295 1.2350	1.4481	1.4794	Ave		1.4507				11.1		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 3.0923	3.5614 3.0954	3.6266 2.6663	3.1277	3.2560	Ave		3.2037				10.1		30.0			
Chloromethane	+++++ 0.8103	+++++ 0.8120	1.0030 0.7211	0.8168	0.8540	Ave		0.8362				11.1		30.0			
n-Butane	+++++ 1.1331	+++++ 1.1435	1.6103 1.0038	1.2054	1.2179	Ave		1.2190				16.9		30.0			
Vinyl chloride	0.8576 0.9338	1.0884 0.9504	1.0973 0.8498	0.9694	0.9943	Ave		0.9676				9.5		30.0			
1,3-Butadiene	+++++ 0.6334	0.7336 0.6430	0.7692 0.5728	0.6619	0.6760	Ave		0.6700				9.7		30.0			
Bromomethane	+++++ 0.9551	1.1786 0.9692	1.1826 0.8528	0.9930	1.0033	Ave		1.0192				11.8		30.0			
Chloroethane	+++++ 0.6022	+++++ 0.6106	0.6992 0.5476	0.6063	0.6299	Ave		0.6159				8.0		30.0			
Isopentane	+++++ 0.9745	1.2314 0.9685	1.1707 0.8392	0.9974	1.0305	Ave		1.0303				12.8		30.0			
Bromoethene(Vinyl Bromide)	+++++ 1.4145	1.5195 1.4482	1.5144 1.2950	1.3653	1.4611	Ave		1.4312				5.6		30.0			
Trichlorofluoromethane	+++++ 3.4223	3.9353 3.4996	3.8777 3.1421	3.3994	3.5659	Ave		3.5489				7.8		30.0			
n-Pentane	+++++ 1.4588	+++++ 1.4487	1.8707 1.2558	1.5097	1.5439	Ave		1.5146				13.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.2892	+++++ 0.2882	0.3008 0.2487	0.3254	0.3030	Ave		0.2925				8.7		30.0			
Ethyl ether	+++++ 0.7214	0.7675 0.7375	0.8000 0.6498	0.7253	0.7542	Ave		0.7365				6.4		30.0			
Acrolein	+++++ 0.2769	+++++ 0.2247	+++++ 0.0951	0.2420	0.3152	Ave		0.2308				36.1	*	30.0			
Freon TF	+++++ 2.6013	2.9159 2.6401	2.9186 2.3323	2.5880	2.7059	Ave		2.6717				7.6		30.0			
1,1-Dichloroethene	+++++ 1.2992	1.4001 1.3209	1.4131 1.1796	1.2577	1.3468	Ave		1.3168				6.2		30.0			
Acetone	+++++ 1.2831	+++++ 1.3846	+++++ 1.1067	1.4659	1.2464	Ave		1.2973				10.6		30.0			
Carbon disulfide	+++++ 3.0625	+++++ 3.1259	3.4660 2.7608	3.0566	3.1841	Ave		3.1093				7.3		30.0			
Isopropyl alcohol	+++++ 1.2012	+++++ 1.2165	+++++ 1.0664	1.0467	1.0759	Ave		1.1213				7.2		30.0			
3-Chloropropene	+++++ 0.9535	1.0942 0.9465	1.0803 0.7744	0.9051	0.9736	Ave		0.9611				11.3		30.0			
Acetonitrile	+++++ 0.5900	+++++ 0.6033	+++++ 0.5261	0.6198	0.5867	Ave		0.5852				6.1		30.0			
Methylene Chloride	+++++ 0.9560	+++++ 0.9784	1.2763 0.8438	0.9918	1.0106	Ave		1.0095				14.2		30.0			
tert-Butyl alcohol	+++++ 1.8987	+++++ 1.9267	+++++ 1.7446	1.5854	1.7315	Ave		1.7774				7.8		30.0			
Methyl tert-butyl ether	+++++ 3.4172	3.4740 3.4774	3.5741 3.1091	3.3212	3.5372	Ave		3.4157				4.6		30.0			
trans-1,2-Dichloroethene	+++++ 1.4618	1.6793 1.4823	1.6645 1.2905	1.4903	1.5502	Ave		1.5170				8.7		30.0			
Acrylonitrile	+++++ 0.6960	+++++ 0.7056	0.7234 0.6252	0.6882	0.7129	Ave		0.6919				5.0		30.0			
n-Hexane	+++++ 1.5695	1.8239 1.5772	1.8441 1.3594	1.5944	1.6597	Ave		1.6326				10.2		30.0			
1,1-Dichloroethane	1.9498 1.9152	2.2298 1.9312	2.1805 1.6960	1.9301	2.0055	Ave		1.9798				8.4		30.0			
Vinyl acetate	+++++ 2.0151	+++++ 1.9368	+++++ 1.7721	2.0114	2.0767	Ave		1.9624				6.0		30.0			
cis-1,2-Dichloroethene	+++++ 1.4765	1.6473 1.5003	1.6453 1.3215	1.4509	1.5328	Ave		1.5106				7.5		30.0			
Methyl Ethyl Ketone	+++++ 0.6245	+++++ 0.6464	0.8725 0.5349	0.6259	0.6282	Ave		0.6554				17.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.1183	+++++ 0.1207	+++++ 0.1055	0.1146	0.1198	Ave		0.1158				5.4		30.0			
Tetrahydrofuran	+++++ 0.1975	+++++ 0.2234	+++++ 0.1782	0.1982	0.2016	Ave		0.1998				8.0		30.0			
Chloroform	+++++ 2.5529	2.9217 2.6172	2.8623 2.3225	2.5330	2.6478	Ave		2.6368				7.7		30.0			
Cyclohexane	+++++ 0.3804	0.3994 0.4273	0.4199 0.3369	0.3716	0.3906	Ave		0.3895				7.9		30.0			
1,1,1-Trichloroethane	+++++ 0.5875	0.6299 0.6670	0.6401 0.5494	0.5633	0.5995	Ave		0.6052				7.0		30.0			
Carbon tetrachloride	0.5149 0.6352	0.6222 0.6320	0.6420 0.6141	0.5877	0.6495	Ave		0.6122				7.1		30.0			
2,2,4-Trimethylpentane	+++++ 1.0833	1.1812 1.2013	1.2169 0.9347	1.0987	1.1335	Ave		1.1214				8.6		30.0			
Benzene	+++++ 0.8128	0.9562 0.9105	0.9604 0.7292	0.8108	0.8423	Ave		0.8603				9.9		30.0			
1,2-Dichloroethane	+++++ 0.2984	0.3228 0.3402	0.3428 0.2837	0.2920	0.3093	Ave		0.3127				7.4		30.0			
n-Heptane	+++++ 0.3323	0.3854 0.3671	0.4034 0.2821	0.3431	0.3503	Ave		0.3520				11.2		30.0			
n-Butanol	+++++ 0.1270	+++++ 0.1419	+++++ 0.1193	0.1020	0.1039	Ave		0.1188				14.0		30.0			
Trichloroethene	0.3351 0.3960	0.4272 0.4752	0.4436 0.3632	0.3787	0.4139	Ave		0.4041				11.2		30.0			
1,2-Dichloropropane	+++++ 0.2678	0.2949 0.2998	0.2997 0.2417	0.2652	0.2777	Ave		0.2781				7.8		30.0			
Methyl methacrylate	+++++ 0.2863	+++++ 0.3217	0.2910 0.2616	0.2751	0.2928	Ave		0.2881				7.0		30.0			
1,4-Dioxane	+++++ 0.1521	+++++ 0.1755	+++++ 0.1369	0.1317	0.1286	Ave		0.1450				13.3		30.0			
Dibromomethane	+++++ 0.4889	0.5524 0.6067	0.5679 0.4629	0.4569	0.4916	Ave		0.5182				11.1		30.0			
Bromodichloromethane	+++++ 0.5943	0.5974 0.6435	0.6135 0.5486	0.5749	0.6143	Ave		0.5981				5.1		30.0			
cis-1,3-Dichloropropene	+++++ 0.4478	0.4399 0.5036	0.4491 0.4164	0.4257	0.4550	Ave		0.4482				6.2		30.0			
methyl isobutyl ketone	+++++ 0.4358	+++++ 0.4841	0.4725 0.3791	0.4413	0.4519	Ave		0.4441				8.3		30.0			
n-Octane	+++++ 0.4365	0.5316 0.4688	0.5591 0.3351	0.4807	0.4749	Ave		0.4695				15.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Toluene	+++++ 0.6915	0.8022 0.7353	0.8335 0.5707	0.6915	0.7224	Ave		0.7210				11.8		30.0			
trans-1,3-Dichloropropene	+++++ 0.4544	0.4258 0.5086	0.4452 0.4240	0.4299	0.4625	Ave		0.4501				6.6		30.0			
1,1,2-Trichloroethane	+++++ 0.3246	0.3569 0.3509	0.3615 0.2961	0.3170	0.3346	Ave		0.3345				7.1		30.0			
Tetrachloroethene	0.7317 0.7769	0.8167 0.8493	0.8501 0.7093	0.7298	0.7900	Ave		0.7817				7.0		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.4597	+++++ 0.4903	0.4977 0.4015	0.4543	0.4679	Ave		0.4619				7.4		30.0			
Dibromochloromethane	+++++ 0.8007	0.6886 0.7678	0.7326 0.7222	0.7440	0.8298	Ave		0.7551				6.4		30.0			
1,2-Dibromoethane	+++++ 0.6756	0.6925 0.7254	0.7275 0.6234	0.6372	0.6887	Ave		0.6815				5.9		30.0			
Chlorobenzene	+++++ 1.0389	1.1555 1.1127	1.1837 0.9289	1.0046	1.0636	Ave		1.0697				8.3		30.0			
Ethylbenzene	+++++ 1.5271	1.6888 1.6140	1.7406 1.2837	1.5233	1.5949	Ave		1.5675				9.5		30.0			
n-Nonane	+++++ 0.5488	0.6262 0.5664	0.6819 0.4283	0.5796	0.5849	Ave		0.5737				13.6		30.0			
m,p-Xylene	+++++ 0.6312	0.7033 0.6530	0.7484 0.4888	0.6506	0.6697	Ave		0.6493				12.5		30.0			
Xylene, o-	+++++ 0.6668	0.6865 0.7005	0.7366 0.5539	0.6534	0.6895	Ave		0.6696				8.6		30.0			
Styrene	+++++ 1.0268	1.0126 1.0645	1.1115 0.8530	1.0254	1.0804	Ave		1.0249				8.1		30.0			
Bromoform	+++++ 0.8365	0.5543 0.6546	0.5679 0.6912	0.7556	0.9125	Ave		0.7104				18.8		30.0			
Cumene	+++++ 1.8853	1.9852 1.9762	2.1201 1.5558	1.8694	1.9626	Ave		1.9078				9.2		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8827	0.9636 0.8795	0.9908 0.7404	0.8651	0.8915	Ave		0.8877				9.0		30.0			
n-Propylbenzene	+++++ 2.1725	2.3091 2.2583	2.4809 1.6850	2.1906	2.2875	Ave		2.1977				11.3		30.0			
1,2,3-Trichloropropane	+++++ 0.6463	+++++ 0.6752	0.7573 0.5334	0.6424	0.6697	Ave		0.6540				11.1		30.0			
n-Decane	+++++ 0.7638	+++++ 0.7835	0.9317 0.5754	0.8008	0.8162	Ave		0.7786				14.9		30.0			
4-Ethyltoluene	+++++ 1.9372	2.0408 2.0335	2.1735 1.5442	1.9347	2.0336	Ave		1.9568				10.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.5409	1.6505 1.6255	1.7543 1.2944	1.5354	1.6051	Ave		1.5723				9.1		30.0			
1,3,5-Trimethylbenzene	+++++ 1.6550	1.7371 1.7517	1.8169 1.3785	1.6197	1.7113	Ave		1.6672				8.6		30.0			
Alpha Methyl Styrene	+++++ 0.9252	0.8106 0.9098	0.8997 0.7973	0.8797	0.9562	Ave		0.8826				6.7		30.0			
tert-Butylbenzene	+++++ 1.6604	1.7518 1.7557	1.8403 1.3815	1.6292	1.7270	Ave		1.6780				8.8		30.0			
1,2,4-Trimethylbenzene	+++++ 1.6625	1.7227 1.7701	1.8412 1.3999	1.6495	1.7338	Ave		1.6828				8.4		30.0			
sec-Butylbenzene	+++++ 2.3718	2.5277 2.4835	2.7160 1.8910	2.3877	2.4999	Ave		2.4111				10.6		30.0			
4-Isopropyltoluene	+++++ 2.1189	2.1821 2.2219	2.3209 1.7191	2.1042	2.2125	Ave		2.1256				9.1		30.0			
1,3-Dichlorobenzene	+++++ 1.2978	1.2890 1.4061	1.3871 1.1274	1.2526	1.3511	Ave		1.3016				7.3		30.0			
1,4-Dichlorobenzene	+++++ 1.3037	1.2617 1.4204	1.3621 1.1406	1.2476	1.3522	Ave		1.2983				7.1		30.0			
Benzyl chloride	+++++ 1.3661	0.9546 1.3618	1.0969 1.2520	1.2294	1.4416	Ave		1.2432				13.7		30.0			
n-Undecane	+++++ 0.8140	+++++ 0.8176	+++++ 0.5803	0.8968	0.8898	Ave		0.7997				16.1		30.0			
n-Butylbenzene	+++++ 1.7005	1.8635 1.7620	2.0207 1.3037	1.7618	1.8118	Ave		1.7463				12.6		30.0			
1,2-Dichlorobenzene	+++++ 1.2523	1.3007 1.3590	1.3479 1.1035	1.1990	1.2843	Ave		1.2638				7.1		30.0			
n-Dodecane	+++++ 0.7955	+++++ 0.8168	+++++ 0.6593	0.8647	0.8713	Ave		0.8015				10.7		30.0			
1,2,4-Trichlorobenzene	+++++ 1.0509	+++++ 1.2567	0.9410 1.0706	1.0044	1.1109	Ave		1.0724				10.0		30.0			
Hexachlorobutadiene	+++++ 1.0238	1.0183 1.1143	1.0715 0.9105	0.9549	1.0194	Ave		1.0161				6.7		30.0			
Naphthalene	+++++ 1.8726	+++++ 2.4344	1.6320 2.0197	2.0035	2.2749	Ave		2.0395				14.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.9656	0.7906 1.1547	0.9291 0.9983	0.9497	1.0152	Ave		0.9719				11.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92714/4	15276_004.d
Level 2	IC 200-92714/6	15276_006.d
Level 3	IC 200-92714/7	15276_007.d
Level 4	IC 200-92714/8	15276_008.d
Level 5	ICIS 200-92714/9	15276_009.d
Level 6	IC 200-92714/10	15276_010.d
Level 7	IC 200-92714/11	15276_011.d
Level 8	IC 200-92714/12	15276_012.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 209835	+++++ 274180	+++++ 521681	69003	144139	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1054120	+++++ 1396999	35374 2703886	329986	713719	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 468329	+++++ 613877	16754 1192942	149563	318046	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1030472	13573 1350936	35132 2575583	323034	699988	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 270017	+++++ 354380	9716 696513	84362	183586	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 377584	+++++ 499065	15599 969594	124496	261833	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	654 311165	4148 414789	10630 820912	100124	213749	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 211054	2796 280643	7451 553275	68366	145332	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 318282	4492 423006	11456 823763	102554	215686	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 200659	+++++ 266487	6773 528940	62614	135406	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 324737	4693 422682	11341 810667	103009	221543	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 471367	5791 632044	14670 1250968	141010	314111	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 1140409	14998 1527343	37564 3035146	351092	766595	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 486122	+++++ 632256	18122 1213058	155926	331919	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 128790	+++++ 251582	29171 600504	67256	97766	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 240391	2925 321855	7750 627657	74904	162135	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 92284	+++++ 98076	+++++ 91886	24995	67757	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 866852	11113 1152206	28273 2252940	267293	581721	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 432923	5336 576461	13689 1139431	129899	289544	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 427581	+++++ 604299	+++++ 1068988	151394	267942	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 1020518	+++++ 1364234	33576 2666879	315689	684512	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 400274	+++++ 530925	+++++ 1030103	108104	231294	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 317728	4170 413059	10465 748083	93475	209305	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 196606	+++++ 263305	+++++ 508183	64014	126121	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 318565	+++++ 427001	12364 815105	102431	217260	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 632712	+++++ 840880	+++++ 1685183	163739	372231	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 1138713	13240 1517641	34623 3003289	343015	760441	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 487128	6400 646926	16124 1246573	153917	333266	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 231945	+++++ 307931	7008 603919	71081	153252	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 522999	6951 688353	17864 1313175	164669	356815	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1487 638211	8498 842839	21123 1638280	199338	431147	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 671483	+++++ 845280	+++++ 1711826	207738	446450	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 492018	6278 654772	15938 1276507	149854	329520	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 208118	+++++ 282125	8452 516671	64644	135049	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 39422	+++++ 52656	+++++ 101894	11836	25750	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 316492	+++++ 421720	+++++ 801644	100440	211402	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 850713	11135 1142229	27728 2243486	261604	569228	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 609621	7523 806709	19802 1515327	188279	409537	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 941524	11864 1259081	30189 2471015	285399	628557	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	1945 1018011	11719 1193119	30279 2762013	297759	680939	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 1736112	22249 2267728	57392 4203811	556689	1188416	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 1302611	18011 1718838	45295 3279727	410787	883108	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 478257	6080 642187	16167 1276033	147931	324258	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 532492	7259 693047	19024 1268672	173856	367244	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 203589	+++++ 267814	+++++ 536554	51665	108969	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	1266 634617	8046 897007	20921 1633744	191880	433905	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 429237	5555 565892	14134 1087282	134365	291192	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 458839	+++++ 607350	13722 1176764	139386	306948	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 243769	+++++ 331243	+++++ 615570	66729	134831	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 783538	10404 1145271	26785 2081971	231479	515452	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 952439	11252 1214747	28934 2467262	291312	644026	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 717607	8286 950761	21182 1872953	215681	477011	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 698397	+++++ 913934	22283 1704858	223586	473802	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 699564	10013 884985	26367 1507021	243561	497889	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 1025039	14081 1343520	36219 2359560	327992	702810	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 728194	8020 960080	20994 1907122	217810	484946	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 481224	6264 641097	15707 1224354	150341	325560	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	2391 1151596	14335 1551765	36937 2932419	346125	768567	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 681426	+++++ 895863	21625 1659944	215475	455188	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 1186805	12086 1402884	31834 2986098	352853	807279	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 1001463	12155 1325446	31610 2577546	302232	669996	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 1539925	20281 2033034	51435 3840624	476470	1034786	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 2263601	29642 2949030	75631 5307379	722494	1551624	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 813467	10991 1034931	29630 1770844	274889	569088	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 1871339	24688 2386158	65037 4041521	617108	1303023	+++++ 30.0	0.400 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 988432	12050 1279986	32008 2290088	309899	670837	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 1521972	17774 1945065	48295 3526694	486346	1051117	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 1239942	9730 1195993	24675 2857600	358359	887762	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 2794513	34844 3610817	92123 6432377	886634	1909383	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 1308428	16913 1607081	43052 3061094	410301	867352	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 3220222	40529 4126295	107799 6966554	1038986	2225538	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 957966	+++++ 1233704	32908 2205203	304682	651501	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 1132148	+++++ 1431651	40484 2378840	379833	794090	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 2871493	35820 3715597	94444 6384319	917599	1978518	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 2284086	28970 2970158	76229 5351577	728222	1561560	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 2453261	30489 3200687	78947 5699544	768213	1664875	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 1371484	14227 1662288	39094 3296589	417252	930244	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 2461166	30748 3207969	79963 5711849	772702	1680211	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29686-1 Analy Batch No.: 92714

SDG No.:

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:16 Calibration End Date: 08/13/2015 23:55 Calibration ID: 31735

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 2464364	30237 3234351	80004 5787658	782333	1686769	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 3515688	44367 4537880	118013 7818430	1132470	2432109	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 3140766	38301 4059785	100846 7107410	998006	2152514	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 1923711	22625 2569141	60273 4661209	594109	1314439	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 1932505	22146 2595414	59187 4715714	591727	1315529	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 2024995	16756 2488213	47661 5176306	583095	1402490	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 1206568	+++++ 1493888	+++++ 2399411	425338	865643	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 2520706	32708 3219480	87802 5390064	835591	1762644	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 1856239	22830 2483221	58570 4562315	568673	1249513	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 1179227	+++++ 1492377	+++++ 2725678	410123	847707	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1557789	+++++ 2296197	40886 4426412	476397	1080798	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 1517640	17873 2036016	46557 3764432	452904	991765	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 2775791	+++++ 4448149	70912 8350211	950237	2213222	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 1431231	13877 2109856	40371 4127577	450442	987650	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92823/4	15313_04.D
Level 2	IC 200-92823/5	15313_05.D
Level 3	IC 200-92823/6	15313_06.D
Level 4	IC 200-92823/7	15313_07.D
Level 5	ICIS 200-92823/8	15313_08.D
Level 6	IC 200-92823/9	15313_09.D
Level 7	IC 200-92823/10	15313_10.D
Level 8	IC 200-92823/11	15313_11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.4217	+++++ 0.3861	+++++ 0.3746	0.4479	0.4467	Ave		0.4154				8.2		30.0			
Dichlorodifluoromethane	+++++ 1.9562	+++++ 1.8005	2.0724 1.8099	1.9718	2.0597	Ave		1.9451				6.1		30.0			
Freon 22	+++++ 0.9410	+++++ 0.8557	1.0308 0.8605	0.9525	1.0039	Ave		0.9407				7.7		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.9844	2.0400 1.8229	2.0816 1.8362	1.9869	2.0916	Ave		1.9777				5.5		30.0			
Chloromethane	+++++ 0.5508	+++++ 0.4994	0.6023 0.5030	0.5512	0.5775	Ave		0.5474				7.4		30.0			
n-Butane	+++++ 0.8734	+++++ 0.7902	1.1420 0.7819	0.8761	0.9311	Ave		0.8991				14.7		30.0			
Vinyl chloride	0.5581 0.7177	0.7646 0.6507	0.7298 0.6553	0.7013	0.7448	Ave		0.6903				9.7		30.0			
1,3-Butadiene	+++++ 0.4961	0.5033 0.4509	0.5612 0.4522	0.4897	0.5172	Ave		0.4958				7.7		30.0			
Bromomethane	+++++ 0.7801	0.8013 0.7302	0.8346 0.7434	0.7722	0.8096	Ave		0.7816				4.7		30.0			
Chloroethane	+++++ 0.3505	+++++ 0.3215	0.3698 0.3273	0.3552	0.3673	Ave		0.3486				5.8		30.0			
Isopentane	+++++ 0.6007	0.8096 0.5414	0.7583 0.5449	0.6175	0.6326	Ave		0.6436				16.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.9084	0.9255 0.8384	0.9448 0.8566	0.8923	0.9492	Ave		0.9022				4.7		30.0			
Trichlorofluoromethane	+++++ 2.1493	2.2362 1.9805	2.2729 2.0076	2.1260	2.2453	Ave		2.1454				5.4		30.0			
n-Pentane	+++++ 1.0004	+++++ 0.9129	1.2363 0.9048	1.0239	1.0635	Ave		1.0236				11.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.2153	+++++ 0.1993	0.2086 0.1896	0.2564	0.2184	Ave		0.2146				10.7		30.0			
Ethyl ether	+++++ 0.4678	0.4216 0.4300	0.4611 0.4279	0.4617	0.4828	Ave		0.4504				5.2		30.0			
Acrolein	+++++ 0.2039	+++++ 0.1495	+++++ 0.0733	0.1874	0.2330	Ave		0.1694				36.4	*	30.0			
Freon TF	+++++ 1.7251	1.8538 1.5853	1.7882 1.6059	1.6847	1.7794	Ave		1.7175				5.7		30.0			
1,1-Dichloroethene	+++++ 0.8111	0.8057 0.7557	0.8391 0.7625	0.7969	0.8486	Ave		0.8028				4.4		30.0			
Acetone	+++++ 0.8945	+++++ 0.8691	+++++ 0.7725	0.9799	0.8602	Ave		0.8752				8.5		30.0			
Carbon disulfide	+++++ 2.0561	+++++ 1.9250	2.1426 1.9277	2.0418	2.1464	Ave		2.0399				4.8		30.0			
Isopropyl alcohol	+++++ 0.9015	+++++ 0.8445	+++++ 0.7980	0.8261	0.7772	Ave		0.8295				5.8		30.0			
3-Chloropropene	+++++ 0.6898	0.7607 0.6184	0.7406 0.5672	0.6548	0.7111	Ave		0.6775				10.1		30.0			
Acetonitrile	+++++ 0.4303	+++++ 0.3963	+++++ 0.3857	0.4481	0.4141	Ave		0.4149				6.1		30.0			
Methylene Chloride	+++++ 0.7001	+++++ 0.6428	0.9791 0.6297	0.7290	0.7416	Ave		0.7371				17.2		30.0			
tert-Butyl alcohol	+++++ 1.4245	+++++ 1.3250	+++++ 1.2854	1.3257	1.2875	Ave		1.3296				4.2		30.0			
Methyl tert-butyl ether	+++++ 2.2289	2.3168 2.0695	2.3239 2.0734	2.1930	2.3362	Ave		2.2202				5.2		30.0			
trans-1,2-Dichloroethene	+++++ 1.0293	1.0861 0.9475	1.0975 0.9441	1.0238	1.0883	Ave		1.0310				6.3		30.0			
Acrylonitrile	+++++ 0.4856	+++++ 0.4458	0.4987 0.4492	0.4896	0.5015	Ave		0.4784				5.2		30.0			
n-Hexane	+++++ 1.0634	1.2098 0.9715	1.2602 0.9725	1.0648	1.1212	Ave		1.0948				10.1		30.0			
1,1-Dichloroethane	1.5382 1.3849	1.3885 1.2679	1.4587 1.2764	1.3738	1.4475	Ave		1.3920				6.5		30.0			
Vinyl acetate	+++++ 1.6812	+++++ 1.5077	+++++ 1.5101	1.6852	1.7752	Ave		1.6319				7.3		30.0			
cis-1,2-Dichloroethene	+++++ 1.0202	1.0647 0.9430	1.0522 0.9562	0.9956	1.0590	Ave		1.0130				4.9		30.0			
Methyl Ethyl Ketone	+++++ 0.4413	+++++ 0.4131	0.6426 0.4061	0.4467	0.4371	Ave		0.4645				19.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0763	+++++ 0.0706	+++++ 0.0702	0.0734	0.0770	Ave		0.0735				4.3		30.0			
Tetrahydrofuran	+++++ 0.1456	+++++ 0.1387	+++++ 0.1368	0.1439	0.1473	Ave		0.1425				3.2		30.0			
Chloroform	+++++ 1.8556	1.9677 1.7173	1.9648 1.7285	1.8364	1.9374	Ave		1.8582				5.7		30.0			
Cyclohexane	+++++ 0.2503	0.2614 0.2414	0.2588 0.2423	0.2416	0.2563	Ave		0.2503				3.5		30.0			
1,1,1-Trichloroethane	+++++ 0.3672	0.3668 0.3531	0.3747 0.3590	0.3543	0.3770	Ave		0.3646				2.6		30.0			
Carbon tetrachloride	0.3526 0.4060	0.3676 0.3394	0.3802 0.3995	0.3772	0.4163	Ave		0.3798				7.0		30.0			
2,2,4-Trimethylpentane	+++++ 0.8394	0.8585 0.8064	0.8614 0.7969	0.8267	0.8661	Ave		0.8365				3.3		30.0			
Benzene	+++++ 0.5800	0.6142 0.5583	0.6179 0.5588	0.5650	0.5925	Ave		0.5838				4.3		30.0			
1,2-Dichloroethane	+++++ 0.2057	0.2124 0.1970	0.2101 0.1977	0.1998	0.2117	Ave		0.2049				3.3		30.0			
n-Heptane	+++++ 0.2782	0.2970 0.2631	0.3064 0.2589	0.2776	0.2909	Ave		0.2817				6.2		30.0			
n-Butanol	+++++ 0.1065	+++++ 0.1015	+++++ 0.1011	0.0934	0.0831	Ave		0.0971				9.4		30.0			
Trichloroethene	0.3441 0.2794	0.2994 0.2916	0.2963 0.2732	0.2670	0.3026	Ave		0.2942				8.1		30.0			
1,2-Dichloropropane	+++++ 0.2234	0.2240 0.2155	0.2260 0.2160	0.2183	0.2299	Ave		0.2219				2.4		30.0			
Methyl methacrylate	+++++ 0.2250	+++++ 0.2165	0.2229 0.2185	0.2157	0.2280	Ave		0.2211				2.2		30.0			
1,4-Dioxane	+++++ 0.1176	+++++ 0.1179	+++++ 0.1091	0.1077	0.0960	Ave		0.1097				8.2		30.0			
Dibromomethane	+++++ 0.3388	0.3994 0.3610	0.3784 0.3428	0.3179	0.3380	Ave		0.3538				7.8		30.0			
Bromodichloromethane	+++++ 0.4338	0.3914 0.4029	0.4077 0.4202	0.4152	0.4459	Ave		0.4167				4.5		30.0			
cis-1,3-Dichloropropene	+++++ 0.3553	0.3367 0.3450	0.3436 0.3491	0.3408	0.3671	Ave		0.3482				2.9		30.0			
methyl isobutyl ketone	+++++ 0.3868	+++++ 0.3668	0.3983 0.3610	0.3809	0.3961	Ave		0.3817				4.0		30.0			
Toluene	+++++ 0.5051	0.5341 0.4972	0.5296 0.4915	0.4901	0.5166	Ave		0.5092				3.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.4270	0.4721 0.4004	0.4763 0.3858	0.4286	0.4460	Ave		0.4337				7.8		30.0			
trans-1,3-Dichloropropene	+++++ 0.3582	0.3895 0.3419	0.3985 0.3458	0.3417	0.3665	Ave		0.3631				6.4		30.0			
1,1,2-Trichloroethane	+++++ 0.2392	0.2492 0.2312	0.2406 0.2317	0.2283	0.2428	Ave		0.2376				3.1		30.0			
Tetrachloroethene	0.5710 0.5011	0.4954 0.4946	0.5091 0.5007	0.4736	0.5113	Ave		0.5071				5.6		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.3841	+++++ 0.3654	0.3897 0.3577	0.3804	0.3913	Ave		0.3781				3.6		30.0			
Dibromochloromethane	+++++ 0.5375	0.4313 0.4642	0.4293 0.5194	0.5012	0.5551	Ave		0.4912				10.3		30.0			
1,2-Dibromoethane	+++++ 0.4791	0.4546 0.4647	0.4653 0.4681	0.4535	0.4856	Ave		0.4673				2.5		30.0			
Chlorobenzene	+++++ 0.7297	0.7256 0.7132	0.7409 0.7191	0.7020	0.7447	Ave		0.7250				2.1		30.0			
Ethylbenzene	+++++ 1.1032	1.1096 1.0737	1.1265 1.0765	1.0662	1.1287	Ave		1.0978				2.3		30.0			
n-Nonane	+++++ 0.4676	0.4993 0.4478	0.5022 0.4373	0.4603	0.4843	Ave		0.4713				5.3		30.0			
m,p-Xylene	+++++ 0.4668	0.4714 0.4553	0.4656 0.4546	0.4504	0.4764	Ave		0.4629				2.1		30.0			
Xylene, o-	+++++ 0.4606	0.4648 0.4489	0.4655 0.4506	0.4419	0.4705	Ave		0.4575				2.3		30.0			
Styrene	+++++ 0.7256	0.7048 0.6961	0.7105 0.7162	0.7015	0.7438	Ave		0.7141				2.3		30.0			
Bromoform	+++++ 0.5560	0.3350 0.3882	0.3410 0.5041	0.4937	0.5955	Ave		0.4591				22.8		30.0			
Cumene	+++++ 1.3228	1.3259 1.2755	1.3199 1.2897	1.2647	1.3374	Ave		1.3051				2.2		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.6397	0.6338 0.5688	0.6221 0.6070	0.6139	0.6132	Ave		0.6141				3.8		30.0			
n-Propylbenzene	+++++ 1.5353	1.5493 1.4866	1.5448 1.4748	1.4868	1.5698	Ave		1.5211				2.5		30.0			
1,2,3-Trichloropropane	+++++ 0.4724	+++++ 0.4514	0.4989 0.4471	0.4578	0.4826	Ave		0.4684				4.3		30.0			
n-Decane	+++++ 0.6069	+++++ 0.5702	0.6512 0.5192	0.6006	0.6278	Ave		0.5960				7.8		30.0			
4-Ethyltoluene	+++++ 1.3381	1.3541 1.2907	1.3495 1.2618	1.2779	1.3605	Ave		1.3190				3.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.0354	1.0757 1.0002	1.0640 0.9864	1.0022	1.0587	Ave		1.0318				3.5		30.0			
1,3,5-Trimethylbenzene	+++++ 1.1059	1.1096 1.0703	1.1128 1.0341	1.0592	1.1288	Ave		1.0887				3.2		30.0			
Alpha Methyl Styrene	+++++ 0.6047	0.5522 0.5310	0.5708 0.5680	0.5710	0.6196	Ave		0.5739				5.2		30.0			
tert-Butylbenzene	+++++ 1.0994	1.1337 1.0613	1.1213 1.0105	1.0516	1.1174	Ave		1.0850				4.1		30.0			
1,2,4-Trimethylbenzene	+++++ 1.1128	1.1049 1.0775	1.1264 1.0182	1.0659	1.1340	Ave		1.0914				3.7		30.0			
sec-Butylbenzene	+++++ 1.6220	1.6031 1.5643	1.6414 1.4620	1.5637	1.6495	Ave		1.5866				4.1		30.0			
4-Isopropyltoluene	+++++ 1.4308	1.4178 1.3520	1.4261 1.3437	1.3613	1.4478	Ave		1.3971				3.1		30.0			
1,3-Dichlorobenzene	+++++ 0.8507	0.8559 0.8409	0.8573 0.7894	0.8132	0.8679	Ave		0.8393				3.3		30.0			
1,4-Dichlorobenzene	+++++ 0.8572	0.8741 0.8499	0.8638 0.7949	0.8290	0.8776	Ave		0.8495				3.4		30.0			
Benzyl chloride	+++++ 0.9506	0.8526 0.8276	0.8441 0.8771	0.8705	0.9975	Ave		0.8886				7.0		30.0			
n-Undecane	+++++ 0.6292	+++++ 0.5931	+++++ 0.5467	0.6360	0.6547	Ave		0.6119				7.0		30.0			
n-Butylbenzene	+++++ 1.1559	1.2884 1.0253	1.2600 1.1014	1.1698	1.2281	Ave		1.1756				7.9		30.0			
1,2-Dichlorobenzene	+++++ 0.8072	0.8192 0.7905	0.8151 0.7523	0.7657	0.8194	Ave		0.7956				3.4		30.0			
n-Dodecane	+++++ 0.5858	+++++ 0.5673	+++++ 0.3894	0.6344	0.6166	Ave		0.5587				17.6		30.0			
1,2,4-Trichlorobenzene	+++++ 0.7226	+++++ 0.7720	0.7348 0.7485	0.7000	0.7277	Ave		0.7342				3.3		30.0			
Hexachlorobutadiene	+++++ 0.6939	0.7003 0.6812	0.7237 0.6616	0.6426	0.6796	Ave		0.6833				3.9		30.0			
Naphthalene	+++++ 1.2948	+++++ 1.4968	1.2878 1.4524	1.3528	1.5517	Ave		1.4061				7.8		30.0			
1,2,3-Trichlorobenzene	+++++ 0.6764	0.6735 0.7170	0.6661 0.6369	0.6750	0.7061	Ave		0.6787				3.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92823/4	15313_04.D
Level 2	IC 200-92823/5	15313_05.D
Level 3	IC 200-92823/6	15313_06.D
Level 4	IC 200-92823/7	15313_07.D
Level 5	ICIS 200-92823/8	15313_08.D
Level 6	IC 200-92823/9	15313_09.D
Level 7	IC 200-92823/10	15313_10.D
Level 8	IC 200-92823/11	15313_11.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 115606	+++++ 147627	+++++ 293103	39568	79619	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 536300	+++++ 688331	18447 1416178	174200	367128	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 257975	+++++ 327136	9175 673303	84151	178941	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 544022	7340 696918	18529 1436768	175537	372804	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 151010	+++++ 190924	5361 393541	48700	102928	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 239444	+++++ 302089	10165 611813	77403	165953	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	406 196764	2751 248778	6496 512756	61956	132763	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 135999	1811 172388	4995 353849	43265	92194	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 213878	2883 279157	7429 581679	68219	144302	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 96102	+++++ 122905	3292 256075	31384	65465	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 164678	2913 206973	6750 426323	54555	112761	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 249053	3330 320535	8410 670234	78834	169183	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 589227	8046 757146	20232 1570842	187826	400212	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 274252	+++++ 348993	11005 707953	90462	189558	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 78878	+++++ 152414	18594 370809	45333	58425	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 128246	1517 164407	4104 334842	40793	86055	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 55901	+++++ 57144	+++++ 57386	16554	41527	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 472941	6670 606055	15917 1256523	148836	317169	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 222376	2899 288899	7469 596610	70402	151254	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 245235	+++++ 332279	+++++ 604454	86571	153320	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 563694	+++++ 735941	19072 1508299	180387	382581	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 247161	+++++ 322857	+++++ 624384	72980	138526	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 189105	2737 236424	6592 443769	57849	126757	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 117962	+++++ 151523	+++++ 301814	39587	73804	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 191942	+++++ 245762	8715 492671	64407	132185	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 390536	+++++ 506551	+++++ 1005737	117126	229496	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 611053	8336 791200	20686 1622319	193747	416407	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 282198	3908 362220	9769 738694	90452	193989	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 133120	+++++ 170432	4439 351437	43254	89386	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 291527	4353 371423	11217 760933	94069	199848	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1119 379683	4996 484720	12984 998726	121376	258006	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 460901	+++++ 576389	+++++ 1181596	148881	316412	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 279699	3831 360505	9366 748190	87958	188750	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 120992	+++++ 157943	5720 317730	39469	77903	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 20908	+++++ 26996	+++++ 54940	6481	13732	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 213592	+++++ 271947	+++++ 550582	69181	142545	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 508708	7080 656531	17489 1352467	162241	345321	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 367117	5156 473473	12595 974894	116145	247969	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 538511	7236 692478	18231 1444367	170319	364721	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	1411 595426	7250 665674	18498 1607404	181327	402821	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 1231099	16933 1581525	41917 3206482	397447	838004	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 850668	12116 1094952	30066 2248333	271621	573241	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 301746	4190 386358	10225 795366	96043	204801	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 408033	5858 515909	14909 1041893	133436	281469	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 156227	+++++ 199142	+++++ 406800	44914	80367	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	1377 409861	5905 571789	14420 1099379	128372	292790	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 327591	4419 422687	10996 869152	104929	222412	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 329938	+++++ 424575	10846 879348	103716	220565	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 172495	+++++ 231199	+++++ 438987	51754	92901	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 496840	7879 707881	18413 1379467	152819	327060	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 636254	7721 790218	19837 1690582	199622	431391	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 521087	6642 676517	16721 1404582	163830	355200	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 567275	+++++ 719425	19380 1452676	183126	383249	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 727136	10378 957398	25278 1950494	231255	489691	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 626206	9312 785212	23178 1552346	206063	431541	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 525377	7682 670483	19391 1391292	164265	354582	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 344310	4842 445240	11485 919569	107712	230143	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	2234 721350	9626 952351	24300 1986893	223437	484640	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 552940	+++++ 703504	18600 1419344	179506	370855	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 773759	8380 893824	20490 2061192	236482	526159	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 689606	8833 894793	22207 1857346	213957	460295	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 1050334	14098 1373195	35363 2853671	331246	705853	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 1587982	21560 2067415	53766 4271792	503072	1069819	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 673141	9701 862327	23969 1735272	217187	459000	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 1343786	18319 1753357	44443 3608247	424990	903046	+++++ 30.0	0.400 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 663048	9032 864306	22217 1787948	208525	445933	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 1044542	13694 1340404	33909 2842089	330977	704947	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 800301	6509 747541	16277 2000470	232957	564392	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 1904124	25764 2455967	62997 5117881	596746	1267613	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 920841	12316 1095183	29690 2408856	289659	581197	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 2210049	30105 2862524	73727 5852479	701499	1487902	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 680056	+++++ 869202	23812 1774249	216002	457424	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 873541	+++++ 1097936	31078 2060487	283369	595025	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 1926124	26312 2485215	64410 5007218	602938	1289537	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 1490410	20902 1925859	50782 3914379	472878	1003429	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 1591961	21561 2060828	53113 4103368	499768	1069946	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 870386	10730 1022373	27241 2253838	269421	587298	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 1582555	22029 2043539	53515 4010081	496200	1059064	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-29753-1 Analy Batch No.: 92823

SDG No.:

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 18:04 Calibration End Date: 08/17/2015 23:52 Calibration ID: 31716

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 1601792	21469 2074788	53761 4040427	502925	1074809	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 2334756	31149 3012184	78341 5801638	737805	1563449	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 2059610	27549 2603395	68063 5332076	642290	1372257	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 1224566	16631 1619152	40915 3132687	383696	822626	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 1233878	16984 1636540	41228 3154352	391164	831794	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 1368379	16566 1593524	40288 3480432	410726	945439	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 905738	+++++ 1142006	+++++ 2169541	300072	620516	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 1663811	25035 1974285	60138 4370458	551929	1164033	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 1161892	15918 1522188	38902 2985410	361270	776660	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 843183	+++++ 1092276	+++++ 1545129	299345	584392	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1040101	+++++ 1486418	35069 2970105	330266	689770	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 998827	13607 1311617	34540 2625229	303192	644122	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 1863786	+++++ 2882160	61461 5763656	638299	1470735	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 973583	13086 1380654	31792 2527390	318508	669275	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab Sample ID: ICV 200-92714/15 Calibration Date: 08/14/2015 02:21

Instrument ID: CHW.i Calib Start Date: 08/13/2015 17:16

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/13/2015 23:55

Lab File ID: 15276_015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6273	0.5898		9.40	10.0	-6.0	30.0
Dichlorodifluoromethane	Ave	3.222	3.055		9.48	10.0	-5.2	30.0
Freon 22	Ave	1.451	1.352		9.32	10.0	-6.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.204	3.368		10.5	10.0	5.1	30.0
Chloromethane	Ave	0.8362	0.7570		9.05	10.0	-9.5	30.0
n-Butane	Ave	1.219	1.112		9.12	10.0	-8.8	30.0
Vinyl chloride	Ave	0.9676	0.9081		9.38	10.0	-6.2	30.0
1,3-Butadiene	Ave	0.6700	0.6096		9.10	10.0	-9.0	30.0
Bromomethane	Ave	1.019	0.9410		9.23	10.0	-7.7	30.0
Chloroethane	Ave	0.6159	0.5868		9.52	10.0	-4.7	30.0
Isopentane	Ave	1.030	1.024		9.94	10.0	-0.6	30.0
Bromoethene(Vinyl Bromide)	Ave	1.431	1.362		9.51	10.0	-4.8	30.0
Trichlorofluoromethane	Ave	3.549	3.313		9.33	10.0	-6.7	30.0
n-Pentane	Ave	1.515	1.554		10.3	10.0	2.6	30.0
Ethanol	Ave	0.2925	0.2382		12.2	15.0	-18.6	30.0
Ethyl ether	Ave	0.7365	0.7710		10.5	10.0	4.7	30.0
Acrolein	Ave	0.2308	0.3528		15.3	10.0	52.9*	30.0
Freon TF	Ave	2.672	2.562		9.59	10.0	-4.1	30.0
1,1-Dichloroethene	Ave	1.317	1.256		9.54	10.0	-4.6	30.0
Acetone	Ave	1.297	1.161		8.95	10.0	-10.5	30.0
Carbon disulfide	Ave	3.109	3.419		11.0	10.0	10.0	30.0
Isopropyl alcohol	Ave	1.121	0.9342		8.33	10.0	-16.7	30.0
3-Chloropropene	Ave	0.9611	0.9571		9.96	10.0	-0.4	30.0
Acetonitrile	Ave	0.5852	0.5504		9.40	10.0	-5.9	30.0
Methylene Chloride	Ave	1.009	0.9304		9.21	10.0	-7.8	30.0
tert-Butyl alcohol	Ave	1.777	1.596		8.98	10.0	-10.2	30.0
Methyl tert-butyl ether	Ave	3.416	3.298		9.65	10.0	-3.5	30.0
trans-1,2-Dichloroethene	Ave	1.517	1.519		10.0	10.0	0.2	30.0
Acrylonitrile	Ave	0.6919	0.6850		9.90	10.0	-1.0	30.0
n-Hexane	Ave	1.633	1.646		10.1	10.0	0.8	30.0
1,1-Dichloroethane	Ave	1.980	1.886		9.53	10.0	-4.7	30.0
Vinyl acetate	Ave	1.962	1.879		9.57	10.0	-4.3	30.0
cis-1,2-Dichloroethene	Ave	1.511	1.427		9.44	10.0	-5.5	30.0
Methyl Ethyl Ketone	Ave	0.6554	0.5931		9.05	10.0	-9.5	30.0
Ethyl acetate	Ave	0.1158	0.1240		10.7	10.0	7.1	30.0
Tetrahydrofuran	Ave	0.1998	0.1884		9.43	10.0	-5.7	30.0
Chloroform	Ave	2.637	2.511		9.52	10.0	-4.8	30.0
Cyclohexane	Ave	0.3895	0.3738		9.60	10.0	-4.0	30.0
1,1,1-Trichloroethane	Ave	0.6052	0.5690		9.40	10.0	-6.0	30.0
Carbon tetrachloride	Ave	0.6122	0.6225		10.2	10.0	1.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab Sample ID: ICV 200-92714/15 Calibration Date: 08/14/2015 02:21

Instrument ID: CHW.i Calib Start Date: 08/13/2015 17:16

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/13/2015 23:55

Lab File ID: 15276_015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	1.121	1.044		9.31	10.0	-6.9	30.0
Benzene	Ave	0.8603	0.7952		9.24	10.0	-7.6	30.0
1,2-Dichloroethane	Ave	0.3127	0.2923		9.34	10.0	-6.5	30.0
n-Heptane	Ave	0.3520	0.3205		9.11	10.0	-8.9	30.0
n-Butanol	Ave	0.1188	0.1051		8.84	10.0	-11.6	30.0
Trichloroethene	Ave	0.4041	0.3849		9.52	10.0	-4.8	30.0
1,2-Dichloropropane	Ave	0.2781	0.2548		9.16	10.0	-8.4	30.0
Methyl methacrylate	Ave	0.2881	0.2791		9.69	10.0	-3.1	30.0
1,4-Dioxane	Ave	0.1450	0.1173		8.09	10.0	-19.1	30.0
Dibromomethane	Ave	0.5182	0.4610		8.89	10.0	-11.0	30.0
Bromodichloromethane	Ave	0.5981	0.5684		9.50	10.0	-5.0	30.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4309		9.61	10.0	-3.9	30.0
methyl isobutyl ketone	Ave	0.4441	0.3962		8.92	10.0	-10.8	30.0
n-Octane	Ave	0.4695	0.4379		9.32	10.0	-6.7	30.0
Toluene	Ave	0.7210	0.6875		9.53	10.0	-4.6	30.0
trans-1,3-Dichloropropene	Ave	0.4501	0.4423		9.83	10.0	-1.7	30.0
1,1,2-Trichloroethane	Ave	0.3345	0.3192		9.54	10.0	-4.6	30.0
Tetrachloroethene	Ave	0.7817	0.7615		9.74	10.0	-2.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.4619	0.4030		8.72	10.0	-12.7	30.0
Dibromochloromethane	Ave	0.7551	0.7718		10.2	10.0	2.2	30.0
1,2-Dibromoethane	Ave	0.6815	0.6575		9.65	10.0	-3.5	30.0
Chlorobenzene	Ave	1.070	1.019		9.53	10.0	-4.7	30.0
Ethylbenzene	Ave	1.567	1.515		9.66	10.0	-3.4	30.0
n-Nonane	Ave	0.5737	0.5461		9.52	10.0	-4.8	30.0
m,p-Xylene	Ave	0.6493	0.6289		19.4	20.0	-3.1	30.0
Xylene, o-	Ave	0.6696	0.6466		9.65	10.0	-3.4	30.0
Styrene	Ave	1.025	1.014		9.89	10.0	-1.1	30.0
Bromoform	Ave	0.7104	0.8923		12.6	10.0	25.6	30.0
Cumene	Ave	1.908	1.839		9.64	10.0	-3.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8877	0.8787		9.90	10.0	-1.0	30.0
n-Propylbenzene	Ave	2.198	2.129		9.69	10.0	-3.1	30.0
1,2,3-Trichloropropane	Ave	0.6540	0.6227		9.52	10.0	-4.8	30.0
n-Decane	Ave	0.7786	0.7572		9.72	10.0	-2.7	30.0
4-Ethyltoluene	Ave	1.957	1.948		9.95	10.0	-0.5	30.0
2-Chlorotoluene	Ave	1.572	1.503		9.56	10.0	-4.4	30.0
1,3,5-Trimethylbenzene	Ave	1.667	1.615		9.68	10.0	-3.1	30.0
Alpha Methyl Styrene	Ave	0.8826	0.9134		10.3	10.0	3.5	30.0
tert-Butylbenzene	Ave	1.678	1.620		9.65	10.0	-3.5	30.0
1,2,4-Trimethylbenzene	Ave	1.683	1.622		9.64	10.0	-3.6	30.0
sec-Butylbenzene	Ave	2.411	2.339		9.70	10.0	-3.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab Sample ID: ICV 200-92714/15 Calibration Date: 08/14/2015 02:21

Instrument ID: CHW.i Calib Start Date: 08/13/2015 17:16

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/13/2015 23:55

Lab File ID: 15276_015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	2.126	2.078		9.77	10.0	-2.3	30.0
1,3-Dichlorobenzene	Ave	1.302	1.272		9.77	10.0	-2.3	30.0
1,4-Dichlorobenzene	Ave	1.298	1.277		9.83	10.0	-1.7	30.0
Benzyl chloride	Ave	1.243	1.347		10.8	10.0	8.3	30.0
n-Undecane	Ave	0.7997	0.8302		10.4	10.0	3.8	30.0
n-Butylbenzene	Ave	1.746	1.680		9.62	10.0	-3.8	30.0
1,2-Dichlorobenzene	Ave	1.264	1.222		9.67	10.0	-3.3	30.0
n-Dodecane	Ave	0.8015	0.7843		9.78	10.0	-2.2	30.0
1,2,4-Trichlorobenzene	Ave	1.072	0.9909		9.24	10.0	-7.6	30.0
Hexachlorobutadiene	Ave	1.016	0.9561		9.41	10.0	-5.9	30.0
Naphthalene	Ave	2.040	1.835		9.00	10.0	-10.0	30.0
1,2,3-Trichlorobenzene	Ave	0.9719	0.8826		9.08	10.0	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab Sample ID: CCVIS 200-93960/3 Calibration Date: 09/15/2015 12:03

Instrument ID: CHW.i Calib Start Date: 08/13/2015 17:16

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/13/2015 23:55

Lab File ID: 15745_003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6273	0.6367		10.1	10.0	1.5	30.0
Dichlorodifluoromethane	Ave	3.222	3.539		11.0	10.0	9.8	30.0
Freon 22	Ave	1.451	1.503		10.4	10.0	3.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.204	3.215		10.0	10.0	0.4	30.0
Chloromethane	Ave	0.8362	0.7970		9.53	10.0	-4.7	30.0
n-Butane	Ave	1.219	1.099		9.01	10.0	-9.9	30.0
Vinyl chloride	Ave	0.9676	0.9202		9.51	10.0	-4.9	30.0
1,3-Butadiene	Ave	0.6700	0.6124		9.14	10.0	-8.6	30.0
Bromomethane	Ave	1.019	0.9786		9.60	10.0	-4.0	30.0
Chloroethane	Ave	0.6159	0.6092		9.89	10.0	-1.1	30.0
Isopentane	Ave	1.030	0.9830		9.54	10.0	-4.6	30.0
Bromoethene(Vinyl Bromide)	Ave	1.431	1.396		9.75	10.0	-2.4	30.0
Trichlorofluoromethane	Ave	3.549	3.829		10.8	10.0	7.9	30.0
n-Pentane	Ave	1.515	1.443		9.53	10.0	-4.7	30.0
Ethanol	Ave	0.2925	0.3305		17.0	15.0	13.0	30.0
Ethyl ether	Ave	0.7365	0.7130		9.68	10.0	-3.2	30.0
Acrolein	Ave	0.2308	0.2802		12.1	10.0	21.4	30.0
Freon TF	Ave	2.672	2.721		10.2	10.0	1.8	30.0
1,1-Dichloroethene	Ave	1.317	1.301		9.88	10.0	-1.2	30.0
Acetone	Ave	1.297	1.240		9.56	10.0	-4.4	30.0
Carbon disulfide	Ave	3.109	3.068		9.87	10.0	-1.3	30.0
Isopropyl alcohol	Ave	1.121	0.9797		8.73	10.0	-12.6	30.0
3-Chloropropene	Ave	0.9611	0.9767		10.2	10.0	1.6	30.0
Acetonitrile	Ave	0.5852	0.5345		9.13	10.0	-8.7	30.0
Methylene Chloride	Ave	1.009	0.9657		9.56	10.0	-4.3	30.0
tert-Butyl alcohol	Ave	1.777	1.614		9.08	10.0	-9.2	30.0
Methyl tert-butyl ether	Ave	3.416	3.349		9.80	10.0	-2.0	30.0
trans-1,2-Dichloroethene	Ave	1.517	1.550		10.2	10.0	2.1	30.0
Acrylonitrile	Ave	0.6919	0.6523		9.43	10.0	-5.7	30.0
n-Hexane	Ave	1.633	1.517		9.29	10.0	-7.1	30.0
1,1-Dichloroethane	Ave	1.980	1.948		9.84	10.0	-1.6	30.0
Vinyl acetate	Ave	1.962	1.910		9.73	10.0	-2.7	30.0
cis-1,2-Dichloroethene	Ave	1.511	1.405		9.30	10.0	-7.0	30.0
Methyl Ethyl Ketone	Ave	0.6554	0.5905		9.01	10.0	-9.9	30.0
Ethyl acetate	Ave	0.1158	0.1132		9.78	10.0	-2.2	30.0
Tetrahydrofuran	Ave	0.1998	0.1982		9.92	10.0	-0.8	30.0
Chloroform	Ave	2.637	2.736		10.4	10.0	3.7	30.0
Cyclohexane	Ave	0.3895	0.3866		9.93	10.0	-0.7	30.0
1,1,1-Trichloroethane	Ave	0.6052	0.6834		11.3	10.0	12.9	30.0
Carbon tetrachloride	Ave	0.6122	0.7487		12.2	10.0	22.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab Sample ID: CCVIS 200-93960/3 Calibration Date: 09/15/2015 12:03

Instrument ID: CHW.i Calib Start Date: 08/13/2015 17:16

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/13/2015 23:55

Lab File ID: 15745_003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	1.121	1.115		9.94	10.0	-0.6	30.0
Benzene	Ave	0.8603	0.8708		10.1	10.0	1.2	30.0
1,2-Dichloroethane	Ave	0.3127	0.3551		11.4	10.0	13.5	30.0
n-Heptane	Ave	0.3520	0.3544		10.1	10.0	0.7	30.0
n-Butanol	Ave	0.1188	0.1008		8.48	10.0	-15.1	30.0
Trichloroethene	Ave	0.4041	0.4220		10.4	10.0	4.4	30.0
1,2-Dichloropropane	Ave	0.2781	0.2777		9.98	10.0	-0.2	30.0
Methyl methacrylate	Ave	0.2881	0.2931		10.2	10.0	1.7	30.0
1,4-Dioxane	Ave	0.1450	0.1312		9.05	10.0	-9.5	30.0
Dibromomethane	Ave	0.5182	0.5103		9.85	10.0	-1.5	30.0
Bromodichloromethane	Ave	0.5981	0.6746		11.3	10.0	12.8	30.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4521		10.1	10.0	0.9	30.0
methyl isobutyl ketone	Ave	0.4441	0.4577		10.3	10.0	3.1	30.0
n-Octane	Ave	0.4695	0.4819		10.3	10.0	2.6	30.0
Toluene	Ave	0.7210	0.7389		10.2	10.0	2.5	30.0
trans-1,3-Dichloropropene	Ave	0.4501	0.4982		11.1	10.0	10.7	30.0
1,1,2-Trichloroethane	Ave	0.3345	0.3426		10.2	10.0	2.4	30.0
Tetrachloroethene	Ave	0.7817	0.8010		10.2	10.0	2.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.4619	0.4767		10.3	10.0	3.2	30.0
Dibromochloromethane	Ave	0.7551	0.8988		11.9	10.0	19.0	30.0
1,2-Dibromoethane	Ave	0.6815	0.7042		10.3	10.0	3.3	30.0
Chlorobenzene	Ave	1.070	1.091		10.2	10.0	2.0	30.0
Ethylbenzene	Ave	1.567	1.642		10.5	10.0	4.7	30.0
n-Nonane	Ave	0.5737	0.5999		10.5	10.0	4.6	30.0
m,p-Xylene	Ave	0.6493	0.6836		21.1	20.0	5.3	30.0
Xylene, o-	Ave	0.6696	0.6946		10.4	10.0	3.7	30.0
Styrene	Ave	1.025	1.092		10.7	10.0	6.5	30.0
Bromoform	Ave	0.7104	0.9859		13.9	10.0	38.8*	30.0
Cumene	Ave	1.908	2.023		10.6	10.0	6.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8877	0.9681		10.9	10.0	9.1	30.0
n-Propylbenzene	Ave	2.198	2.422		11.0	10.0	10.2	30.0
1,2,3-Trichloropropane	Ave	0.6540	0.7377		11.3	10.0	12.8	30.0
n-Decane	Ave	0.7786	0.8654		11.1	10.0	11.2	30.0
4-Ethyltoluene	Ave	1.957	2.163		11.1	10.0	10.6	30.0
2-Chlorotoluene	Ave	1.572	1.748		11.1	10.0	11.2	30.0
1,3,5-Trimethylbenzene	Ave	1.667	1.836		11.0	10.0	10.1	30.0
Alpha Methyl Styrene	Ave	0.8826	0.9871		11.2	10.0	11.8	30.0
tert-Butylbenzene	Ave	1.678	1.835		10.9	10.0	9.3	30.0
1,2,4-Trimethylbenzene	Ave	1.683	1.861		11.1	10.0	10.6	30.0
sec-Butylbenzene	Ave	2.411	2.646		11.0	10.0	9.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Lab Sample ID: CCVIS 200-93960/3 Calibration Date: 09/15/2015 12:03

Instrument ID: CHW.i Calib Start Date: 08/13/2015 17:16

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/13/2015 23:55

Lab File ID: 15745_003.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	2.126	2.335		11.0	10.0	9.9	30.0
1,3-Dichlorobenzene	Ave	1.302	1.438		11.0	10.0	10.5	30.0
1,4-Dichlorobenzene	Ave	1.298	1.431		11.0	10.0	10.2	30.0
Benzyl chloride	Ave	1.243	1.610		13.0	10.0	29.5	30.0
n-Undecane	Ave	0.7997	0.9426		11.8	10.0	17.9	30.0
n-Butylbenzene	Ave	1.746	1.967		11.3	10.0	12.6	30.0
1,2-Dichlorobenzene	Ave	1.264	1.372		10.9	10.0	8.6	30.0
n-Dodecane	Ave	0.8015	0.9185		11.5	10.0	14.6	30.0
1,2,4-Trichlorobenzene	Ave	1.072	1.130		10.5	10.0	5.4	30.0
Hexachlorobutadiene	Ave	1.016	1.061		10.4	10.0	4.4	30.0
Naphthalene	Ave	2.040	2.254		11.0	10.0	10.5	30.0
1,2,3-Trichlorobenzene	Ave	0.9719	1.030		10.6	10.0	6.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab Sample ID: ICV 200-92823/15 Calibration Date: 08/18/2015 03:10

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15313_15.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4154	0.3798		9.14	10.0	-8.6	30.0
Dichlorodifluoromethane	Ave	1.945	1.851		9.51	10.0	-4.9	30.0
Freon 22	Ave	0.9407	0.8859		9.42	10.0	-5.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.978	2.134		10.8	10.0	7.9	30.0
Chloromethane	Ave	0.5474	0.4991		9.12	10.0	-8.8	30.0
n-Butane	Ave	0.8991	0.8056		8.96	10.0	-10.4	30.0
Vinyl chloride	Ave	0.6903	0.6589		9.54	10.0	-4.6	30.0
1,3-Butadiene	Ave	0.4958	0.4498		9.07	10.0	-9.3	30.0
Bromomethane	Ave	0.7816	0.7548		9.65	10.0	-3.4	30.0
Chloroethane	Ave	0.3486	0.3253		9.33	10.0	-6.7	30.0
Isopentane	Ave	0.6436	0.6084		9.45	10.0	-5.5	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9022	0.8684		9.62	10.0	-3.7	30.0
Trichlorofluoromethane	Ave	2.145	2.029		9.46	10.0	-5.4	30.0
n-Pentane	Ave	1.024	1.032		10.1	10.0	0.8	30.0
Ethanol	Ave	0.2146	0.2115		14.8	15.0	-1.5	30.0
Ethyl ether	Ave	0.4504	0.4932		10.9	10.0	9.5	30.0
Acrolein	Ave	0.1694	0.2041		12.0	10.0	20.5	30.0
Freon TF	Ave	1.717	1.670		9.72	10.0	-2.8	30.0
1,1-Dichloroethene	Ave	0.8028	0.7759		9.66	10.0	-3.4	30.0
Acetone	Ave	0.8752	0.8520		9.73	10.0	-2.7	30.0
Carbon disulfide	Ave	2.040	2.267		11.1	10.0	11.1	30.0
Isopropyl alcohol	Ave	0.8295	0.6747		8.13	10.0	-18.7	30.0
3-Chloropropene	Ave	0.6775	0.5474		8.08	10.0	-19.2	30.0
Acetonitrile	Ave	0.4149	0.4102		9.88	10.0	-1.1	30.0
Methylene Chloride	Ave	0.7371	0.6617		8.98	10.0	-10.2	30.0
tert-Butyl alcohol	Ave	1.330	1.177		8.85	10.0	-11.5	30.0
Methyl tert-butyl ether	Ave	2.220	2.130		9.59	10.0	-4.1	30.0
trans-1,2-Dichloroethene	Ave	1.031	1.047		10.2	10.0	1.6	30.0
Acrylonitrile	Ave	0.4784	0.4692		9.81	10.0	-1.9	30.0
n-Hexane	Ave	1.095	1.081		9.87	10.0	-1.2	30.0
1,1-Dichloroethane	Ave	1.392	1.328		9.54	10.0	-4.6	30.0
Vinyl acetate	Ave	1.632	1.567		9.60	10.0	-4.0	30.0
cis-1,2-Dichloroethene	Ave	1.013	0.9678		9.55	10.0	-4.5	30.0
Methyl Ethyl Ketone	Ave	0.4645	0.4282		9.22	10.0	-7.8	30.0
Ethyl acetate	Ave	0.0735	0.0803		10.9	10.0	9.2	30.0
Tetrahydrofuran	Ave	0.1425	0.1363		9.57	10.0	-4.3	30.0
Chloroform	Ave	1.858	1.788		9.62	10.0	-3.8	30.0
Cyclohexane	Ave	0.2503	0.2425		9.69	10.0	-3.1	30.0
1,1,1-Trichloroethane	Ave	0.3646	0.3519		9.65	10.0	-3.5	30.0
Carbon tetrachloride	Ave	0.3798	0.3903		10.3	10.0	2.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab Sample ID: ICV 200-92823/15 Calibration Date: 08/18/2015 03:10

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15313_15.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.8365	0.7874		9.41	10.0	-5.9	30.0
Benzene	Ave	0.5838	0.5577		9.55	10.0	-4.5	30.0
1,2-Dichloroethane	Ave	0.2049	0.1946		9.50	10.0	-5.0	30.0
n-Heptane	Ave	0.2817	0.2584		9.17	10.0	-8.3	30.0
n-Butanol	Ave	0.0971	0.0898		9.25	10.0	-7.5	30.0
Trichloroethene	Ave	0.2942	0.2687		9.13	10.0	-8.7	30.0
1,2-Dichloropropane	Ave	0.2219	0.2093		9.43	10.0	-5.6	30.0
Methyl methacrylate	Ave	0.2211	0.2177		9.84	10.0	-1.5	30.0
1,4-Dioxane	Ave	0.1097	0.0961		8.76	10.0	-12.4	30.0
Dibromomethane	Ave	0.3538	0.3195		9.03	10.0	-9.7	30.0
Bromodichloromethane	Ave	0.4167	0.4064		9.75	10.0	-2.5	30.0
cis-1,3-Dichloropropene	Ave	0.3482	0.3395		9.75	10.0	-2.5	30.0
methyl isobutyl ketone	Ave	0.3817	0.3573		9.36	10.0	-6.4	30.0
Toluene	Ave	0.5092	0.4937		9.69	10.0	-3.0	30.0
n-Octane	Ave	0.4337	0.3997		9.21	10.0	-7.8	30.0
trans-1,3-Dichloropropene	Ave	0.3631	0.3291		9.06	10.0	-9.4	30.0
1,1,2-Trichloroethane	Ave	0.2376	0.2320		9.76	10.0	-2.4	30.0
Tetrachloroethene	Ave	0.5071	0.4945		9.75	10.0	-2.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3781	0.3671		9.71	10.0	-2.9	30.0
Dibromochloromethane	Ave	0.4912	0.5066		10.3	10.0	3.1	30.0
1,2-Dibromoethane	Ave	0.4673	0.4565		9.77	10.0	-2.3	30.0
Chlorobenzene	Ave	0.7250	0.7085		9.77	10.0	-2.3	30.0
Ethylbenzene	Ave	1.098	1.066		9.71	10.0	-2.9	30.0
n-Nonane	Ave	0.4713	0.4474		9.49	10.0	-5.1	30.0
m,p-Xylene	Ave	0.4629	0.4498		19.4	20.0	-2.8	30.0
Xylene, o-	Ave	0.4575	0.4368		9.54	10.0	-4.5	30.0
Styrene	Ave	0.7141	0.6872		9.62	10.0	-3.8	30.0
Bromoform	Ave	0.4591	0.5348		11.6	10.0	16.5	30.0
Cumene	Ave	1.305	1.256		9.62	10.0	-3.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6141	0.6153		10.0	10.0	0.2	30.0
n-Propylbenzene	Ave	1.521	1.455		9.56	10.0	-4.4	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4416		9.43	10.0	-5.7	30.0
n-Decane	Ave	0.5960	0.5725		9.60	10.0	-3.9	30.0
4-Ethyltoluene	Ave	1.319	1.301		9.86	10.0	-1.3	30.0
2-Chlorotoluene	Ave	1.032	0.9857		9.55	10.0	-4.5	30.0
1,3,5-Trimethylbenzene	Ave	1.089	1.056		9.70	10.0	-3.0	30.0
Alpha Methyl Styrene	Ave	0.5739	0.5831		10.2	10.0	1.6	30.0
tert-Butylbenzene	Ave	1.085	1.049		9.66	10.0	-3.3	30.0
1,2,4-Trimethylbenzene	Ave	1.091	1.055		9.66	10.0	-3.3	30.0
sec-Butylbenzene	Ave	1.587	1.538		9.69	10.0	-3.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab Sample ID: ICV 200-92823/15 Calibration Date: 08/18/2015 03:10

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15313_15.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.397	1.359		9.72	10.0	-2.7	30.0
1,3-Dichlorobenzene	Ave	0.8393	0.8052		9.59	10.0	-4.1	30.0
1,4-Dichlorobenzene	Ave	0.8495	0.8000		9.42	10.0	-5.8	30.0
Benzyl chloride	Ave	0.8886	0.7955		8.95	10.0	-10.5	30.0
n-Butylbenzene	Ave	1.176	1.136		9.66	10.0	-3.4	30.0
n-Undecane	Ave	0.6119	0.6147		10.0	10.0	0.5	30.0
1,2-Dichlorobenzene	Ave	0.7956	0.7670		9.64	10.0	-3.6	30.0
n-Dodecane	Ave	0.5587	0.6001		10.7	10.0	7.4	30.0
1,2,4-Trichlorobenzene	Ave	0.7342	0.6152		8.38	10.0	-16.2	30.0
Hexachlorobutadiene	Ave	0.6833	0.6492		9.50	10.0	-5.0	30.0
Naphthalene	Ave	1.406	1.188		8.45	10.0	-15.5	30.0
1,2,3-Trichlorobenzene	Ave	0.6787	0.6036		8.89	10.0	-11.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab Sample ID: CCVIS 200-94025/2 Calibration Date: 09/16/2015 12:03

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15772_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4154	0.4048		9.74	10.0	-2.6	30.0
Dichlorodifluoromethane	Ave	1.945	2.049		10.5	10.0	5.3	30.0
Freon 22	Ave	0.9407	0.9525		10.1	10.0	1.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.978	1.968		9.95	10.0	-0.5	30.0
Chloromethane	Ave	0.5474	0.5062		9.25	10.0	-7.5	30.0
n-Butane	Ave	0.8991	0.8247		9.17	10.0	-8.3	30.0
Vinyl chloride	Ave	0.6903	0.6754		9.78	10.0	-2.2	30.0
1,3-Butadiene	Ave	0.4958	0.4723		9.52	10.0	-4.7	30.0
Bromomethane	Ave	0.7816	0.7555		9.66	10.0	-3.3	30.0
Chloroethane	Ave	0.3486	0.3258		9.34	10.0	-6.5	30.0
Isopentane	Ave	0.6436	0.5462		8.49	10.0	-15.1	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9022	0.8595		9.53	10.0	-4.7	30.0
Trichlorofluoromethane	Ave	2.145	2.186		10.2	10.0	1.9	30.0
n-Pentane	Ave	1.024	0.9006		8.80	10.0	-12.0	30.0
Ethanol	Ave	0.2146	0.2222		15.5	15.0	3.6	30.0
Ethyl ether	Ave	0.4504	0.4112		9.13	10.0	-8.7	30.0
Acrolein	Ave	0.1694	0.1808		10.7	10.0	6.7	30.0
Freon TF	Ave	1.717	1.639		9.54	10.0	-4.6	30.0
1,1-Dichloroethene	Ave	0.8028	0.7491		9.33	10.0	-6.7	30.0
Acetone	Ave	0.8752	0.8362		9.55	10.0	-4.5	30.0
Carbon disulfide	Ave	2.040	1.897		9.30	10.0	-7.0	30.0
Isopropyl alcohol	Ave	0.8295	0.6919		8.34	10.0	-16.6	30.0
3-Chloropropene	Ave	0.6775	0.6402		9.45	10.0	-5.5	30.0
Acetonitrile	Ave	0.4149	0.3465		8.35	10.0	-16.5	30.0
Methylene Chloride	Ave	0.7371	0.6425		8.72	10.0	-12.8	30.0
tert-Butyl alcohol	Ave	1.330	1.180		8.87	10.0	-11.3	30.0
Methyl tert-butyl ether	Ave	2.220	2.095		9.44	10.0	-5.6	30.0
trans-1,2-Dichloroethene	Ave	1.031	0.9559		9.27	10.0	-7.3	30.0
Acrylonitrile	Ave	0.4784	0.4091		8.55	10.0	-14.5	30.0
n-Hexane	Ave	1.095	0.9349		8.54	10.0	-14.6	30.0
1,1-Dichloroethane	Ave	1.392	1.274		9.15	10.0	-8.5	30.0
Vinyl acetate	Ave	1.632	1.537		9.42	10.0	-5.8	30.0
cis-1,2-Dichloroethene	Ave	1.013	0.9740		9.61	10.0	-3.8	30.0
Methyl Ethyl Ketone	Ave	0.4645	0.3893		8.38	10.0	-16.2	30.0
Ethyl acetate	Ave	0.0735	0.0683		9.29	10.0	-7.1	30.0
Tetrahydrofuran	Ave	0.1425	0.1287		9.03	10.0	-9.7	30.0
Chloroform	Ave	1.858	1.857		9.99	10.0	-0.0	30.0
Cyclohexane	Ave	0.2503	0.2271		9.07	10.0	-9.3	30.0
1,1,1-Trichloroethane	Ave	0.3646	0.3635		9.97	10.0	-0.3	30.0
Carbon tetrachloride	Ave	0.3798	0.4101		10.8	10.0	8.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab Sample ID: CCVIS 200-94025/2 Calibration Date: 09/16/2015 12:03

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15772_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.8365	0.7664		9.16	10.0	-8.4	30.0
Benzene	Ave	0.5838	0.5384		9.22	10.0	-7.8	30.0
1,2-Dichloroethane	Ave	0.2049	0.2063		10.1	10.0	0.7	30.0
n-Heptane	Ave	0.2817	0.2612		9.27	10.0	-7.3	30.0
n-Butanol	Ave	0.0971	0.0789		8.12	10.0	-18.8	30.0
Trichloroethene	Ave	0.2942	0.2750		9.34	10.0	-6.5	30.0
1,2-Dichloropropane	Ave	0.2219	0.2209		9.96	10.0	-0.4	30.0
Methyl methacrylate	Ave	0.2211	0.2189		9.90	10.0	-1.0	30.0
1,4-Dioxane	Ave	0.1097	0.0975		8.89	10.0	-11.1	30.0
Dibromomethane	Ave	0.3538	0.3662		10.3	10.0	3.5	30.0
Bromodichloromethane	Ave	0.4167	0.4538		10.9	10.0	8.9	30.0
cis-1,3-Dichloropropene	Ave	0.3482	0.3593		10.3	10.0	3.2	30.0
methyl isobutyl ketone	Ave	0.3817	0.3960		10.4	10.0	3.8	30.0
Toluene	Ave	0.5092	0.4842		9.51	10.0	-4.9	30.0
n-Octane	Ave	0.4337	0.4433		10.2	10.0	2.2	30.0
trans-1,3-Dichloropropene	Ave	0.3631	0.3689		10.2	10.0	1.6	30.0
1,1,2-Trichloroethane	Ave	0.2376	0.2307		9.71	10.0	-2.9	30.0
Tetrachloroethene	Ave	0.5071	0.5133		10.1	10.0	1.2	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3781	0.3440		9.10	10.0	-9.0	30.0
Dibromochloromethane	Ave	0.4912	0.5362		10.9	10.0	9.2	30.0
1,2-Dibromoethane	Ave	0.4673	0.4669		9.99	10.0	-0.0	30.0
Chlorobenzene	Ave	0.7250	0.7081		9.76	10.0	-2.3	30.0
Ethylbenzene	Ave	1.098	1.061		9.66	10.0	-3.4	30.0
n-Nonane	Ave	0.4713	0.4451		9.44	10.0	-5.6	30.0
m,p-Xylene	Ave	0.4629	0.4502		19.4	20.0	-2.7	30.0
Xylene, o-	Ave	0.4575	0.4484		9.80	10.0	-2.0	30.0
Styrene	Ave	0.7141	0.7072		9.90	10.0	-1.0	30.0
Bromoform	Ave	0.4591	0.6002		13.1	10.0	30.7*	30.0
Cumene	Ave	1.305	1.290		9.88	10.0	-1.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6141	0.6270		10.2	10.0	2.1	30.0
n-Propylbenzene	Ave	1.521	1.518		9.98	10.0	-0.2	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4645		9.92	10.0	-0.8	30.0
n-Decane	Ave	0.5960	0.5701		9.56	10.0	-4.3	30.0
4-Ethyltoluene	Ave	1.319	1.307		9.90	10.0	-0.9	30.0
2-Chlorotoluene	Ave	1.032	1.022		9.90	10.0	-1.0	30.0
1,3,5-Trimethylbenzene	Ave	1.089	1.038		9.54	10.0	-4.6	30.0
Alpha Methyl Styrene	Ave	0.5739	0.5786		10.1	10.0	0.8	30.0
tert-Butylbenzene	Ave	1.085	0.9689		8.93	10.0	-10.7	30.0
1,2,4-Trimethylbenzene	Ave	1.091	0.9445		8.65	10.0	-13.5	30.0
sec-Butylbenzene	Ave	1.587	1.370		8.63	10.0	-13.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Lab Sample ID: CCVIS 200-94025/2 Calibration Date: 09/16/2015 12:03

Instrument ID: CHX.i Calib Start Date: 08/17/2015 18:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/17/2015 23:52

Lab File ID: 15772_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.397	1.443		10.3	10.0	3.3	30.0
1,3-Dichlorobenzene	Ave	0.8393	0.8589		10.2	10.0	2.3	30.0
1,4-Dichlorobenzene	Ave	0.8495	0.8316		9.79	10.0	-2.1	30.0
Benzyl chloride	Ave	0.8886	0.8175		9.20	10.0	-8.0	30.0
n-Butylbenzene	Ave	1.176	1.278		10.9	10.0	8.7	30.0
n-Undecane	Ave	0.6119	0.6331		10.3	10.0	3.5	30.0
1,2-Dichlorobenzene	Ave	0.7956	0.6940		8.72	10.0	-12.8	30.0
n-Dodecane	Ave	0.5587	0.5646		10.1	10.0	1.1	30.0
1,2,4-Trichlorobenzene	Ave	0.7342	0.7751		10.6	10.0	5.6	30.0
Hexachlorobutadiene	Ave	0.6833	0.7458		10.9	10.0	9.2	30.0
Naphthalene	Ave	1.406	1.372		9.75	10.0	-2.5	30.0
1,2,3-Trichlorobenzene	Ave	0.6787	0.6964		10.3	10.0	2.6	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Instrument ID: CHW.i Start Date: 08/13/2015 14:44

Analysis Batch Number: 92714 End Date: 08/14/2015 04:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-92714/1		08/13/2015 14:44	1	15276_001.d	RTX-624 0.32(mm)
VIBLK 200-92714/2		08/13/2015 15:39	1		RTX-624 0.32(mm)
VIBLK 200-92714/3		08/13/2015 16:27	1		RTX-624 0.32(mm)
IC 200-92714/4		08/13/2015 17:16	1	15276_004.d	RTX-624 0.32(mm)
ZZZZZ		08/13/2015 18:04	1		RTX-624 0.32(mm)
IC 200-92714/6		08/13/2015 18:52	1	15276_006.d	RTX-624 0.32(mm)
IC 200-92714/7		08/13/2015 19:42	1	15276_007.d	RTX-624 0.32(mm)
IC 200-92714/8		08/13/2015 20:32	1	15276_008.d	RTX-624 0.32(mm)
ICIS 200-92714/9		08/13/2015 21:22	1	15276_009.d	RTX-624 0.32(mm)
IC 200-92714/10		08/13/2015 22:14	1	15276_010.d	RTX-624 0.32(mm)
IC 200-92714/11		08/13/2015 23:05	1	15276_011.d	RTX-624 0.32(mm)
IC 200-92714/12		08/13/2015 23:55	1	15276_012.d	RTX-624 0.32(mm)
VIBLK 200-92714/13		08/14/2015 00:44	1		RTX-624 0.32(mm)
VIBLK 200-92714/14		08/14/2015 01:33	1		RTX-624 0.32(mm)
ICV 200-92714/15		08/14/2015 02:21	1	15276_015.d	RTX-624 0.32(mm)
ZZZZZ		08/14/2015 03:11	1		RTX-624 0.32(mm)
ZZZZZ		08/14/2015 04:00	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29686-1

SDG No.:

Instrument ID: CHW.i Start Date: 09/15/2015 10:24

Analysis Batch Number: 93960 End Date: 09/16/2015 09:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-93960/1		09/15/2015 10:24	1	15745_001.d	RTX-624 0.32(mm)
CCVIS 200-93960/2		09/15/2015 11:14	1		RTX-624 0.32(mm)
CCVIS 200-93960/3		09/15/2015 12:03	1	15745_003.d	RTX-624 0.32(mm)
LCS 200-93960/4		09/15/2015 12:52	1	15745_004.d	RTX-624 0.32(mm)
MB 200-93960/5		09/15/2015 13:41	1	15745_005.d	RTX-624 0.32(mm)
200-29686-1	4286	09/15/2015 14:47	0.2	15745_006.d	RTX-624 0.32(mm)
200-29686-2	5438	09/15/2015 15:54	0.2	15745_007.d	RTX-624 0.32(mm)
200-29686-3	4315	09/15/2015 17:00	0.2	15745_008.d	RTX-624 0.32(mm)
200-29686-4	5148	09/15/2015 18:09	0.2	15745_009.d	RTX-624 0.32(mm)
200-29686-5	4365	09/15/2015 19:17	0.2	15745_010.d	RTX-624 0.32(mm)
200-29686-6	4094	09/15/2015 20:23	0.2	15745_011.d	RTX-624 0.32(mm)
200-29686-7	3033	09/15/2015 21:28	0.2	15745_012.d	RTX-624 0.32(mm)
200-29686-8	4803	09/15/2015 22:36	0.2	15745_013.d	RTX-624 0.32(mm)
200-29686-9	2885	09/15/2015 23:42	0.2	15745_014.d	RTX-624 0.32(mm)
200-29686-10	4577	09/16/2015 00:49	0.2	15745_015.d	RTX-624 0.32(mm)
200-29686-11	5042	09/16/2015 01:55	0.2	15745_016.d	RTX-624 0.32(mm)
200-29686-12	5982	09/16/2015 03:02	0.2	15745_017.d	RTX-624 0.32(mm)
ZZZZZ		09/16/2015 04:08	0.2		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 05:14	0.2		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 06:19	0.2		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 07:26	0.2		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 08:33	0.2		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 09:39	0.2		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Instrument ID: CHX.i Start Date: 08/17/2015 15:35

Analysis Batch Number: 92823 End Date: 08/18/2015 04:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-92823/1		08/17/2015 15:35	1	15313_01.D	RTX-624 0.32(mm)
VIBLK 200-92823/2		08/17/2015 16:25	1		RTX-624 0.32(mm)
VIBLK 200-92823/3		08/17/2015 17:14	1		RTX-624 0.32(mm)
IC 200-92823/4		08/17/2015 18:04	1	15313_04.D	RTX-624 0.32(mm)
IC 200-92823/5		08/17/2015 18:54	1	15313_05.D	RTX-624 0.32(mm)
IC 200-92823/6		08/17/2015 19:44	1	15313_06.D	RTX-624 0.32(mm)
IC 200-92823/7		08/17/2015 20:33	1	15313_07.D	RTX-624 0.32(mm)
ICIS 200-92823/8		08/17/2015 21:23	1	15313_08.D	RTX-624 0.32(mm)
IC 200-92823/9		08/17/2015 22:13	1	15313_09.D	RTX-624 0.32(mm)
IC 200-92823/10		08/17/2015 23:02	1	15313_10.D	RTX-624 0.32(mm)
IC 200-92823/11		08/17/2015 23:52	1	15313_11.D	RTX-624 0.32(mm)
VIBLK 200-92823/12		08/18/2015 00:42	1		RTX-624 0.32(mm)
VIBLK 200-92823/13		08/18/2015 01:31	1		RTX-624 0.32(mm)
ZZZZZ		08/18/2015 02:21	1		RTX-624 0.32(mm)
ICV 200-92823/15		08/18/2015 03:10	1	15313_15.D	RTX-624 0.32(mm)
ZZZZZ		08/18/2015 04:00	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-29753-1

SDG No.:

Instrument ID: CHX.i Start Date: 09/16/2015 11:15

Analysis Batch Number: 94025 End Date: 09/17/2015 10:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-94025/1		09/16/2015 11:15	1	15772_01.D	RTX-624 0.32(mm)
CCVIS 200-94025/2		09/16/2015 12:03	1	15772_02.D	RTX-624 0.32(mm)
ZZZZZ		09/16/2015 12:52	1		RTX-624 0.32(mm)
LCS 200-94025/4		09/16/2015 14:08	1	15772_04.D	RTX-624 0.32(mm)
MB 200-94025/5		09/16/2015 14:58	1	15772_05.D	RTX-624 0.32(mm)
ZZZZZ		09/16/2015 15:47	10		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 16:36	1		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 17:25	8410		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 18:15	8240		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 19:04	10		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 19:53	2720		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 20:43	9.88		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 21:32	230		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 22:21	1		RTX-624 0.32(mm)
ZZZZZ		09/16/2015 23:11	1		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 00:00	10		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 00:49	10		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 01:39	355		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 02:28	2.99		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 03:18	1		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 04:07	1		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 04:57	1		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 05:55	0.2		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 06:44	1		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 07:34	1		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 08:23	906		RTX-624 0.32(mm)
ZZZZZ		09/17/2015 09:21	0.2		RTX-624 0.32(mm)
200-29753-5	4455	09/17/2015 10:18	0.2	15772_28.D	RTX-624 0.32(mm)

Shipping and Receiving Documents

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Eric. alonsi	Samples Collected By: Chris Finke	21 of 4 COCs
Company: O'Brien & Gere	Phone: 315-956-6100		
Address: 333 W. Washington St.	Email: eric.alonsi@obg.com		
City/State/Zip Syracuse, NY 13221			
Phone: 315-956-6100	Site Contact: Chris Finke		
FAX: 315-437-7554	TA Contact: Don Dawicki		
Project Name: LMCO Farrell Rd	Analysis Turnaround Time		
Site: Farrell Rd	Standard (Specify) X		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
FR-SS01-092315	9/23/15	0919	1719	30.11	7.08	5237	4355	✓								✓		
FR-IA01-092315	9/23/15	0919	1719	30.06	5.67	4537	5148	✓						✓				
FR-SS02-092315	9/23/15	0917	1717	30.11	6.17	3108	3361	✓								✓		
FR-IA02-092315	9/23/15	0917	1717	29.71	5.53	4763	2885	✓						✓				
FR-SS03-092315	9/23/15	0944	1731	30.16	6.91	4247	2632	✓								✓		
FR-IA03-092315	9/23/15	0944	1731	30.17	6.22	3933	4577	✓						✓				

Temperature (Fahrenheit)	Interior	Ambient
Start	62°F	54°F
Stop	62°F	75°F

Pressure (inches of Hg)	Interior	Ambient
Start	29.90	29.90
Stop	29.91	29.91

200-29972 Chain of Custody

Special Instructions/QC Requirements & Comments:

None

Samples Shipped by:	Date/Time: 9/24/15 1330	Samples Received by: TA	9/25/15 1350
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: ~~Erica~~ Eric Alongi	Samples Collected By: Chris Finke	2 of 4 COCs
Company: O'Brien & Gere	Phone: 315-956-6100		
Address: 333 W. Washington St	Email: eric.alongi@obg.com		
City/State/Zip: Syracuse, NY 13221			
Phone: 315-956-6100	Site Contact: Chris Finke		
FAX: 315-437-2554	TA Contact: Don Dawichi		
Project Name: ~~FB~~ LMCO Farrell Rd	**Analysis Turnaround Time**		
Site: Farrell Rd	Standard (Specify) X		
PO # —	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
FR-SS04-092315	9/23/15	0950	1746	30.18	4.94	5175	4275	✓									✓		
FR-IA04-092315	9/23/15	0950	1746	30.18	6.03	4053	5982	✓							✓				
FR-SS05-092315	9/23/15	0956	1751	30.17	7.42	4993	5660	✓									✓		
FR-IA05-092315	9/23/15	0956	1751	30.15	6.65	3934	5438	✓							✓				
FR-SS06-092315	9/23/15	1003	1759	~~30.09~~ 30.18	~~6.13~~ 6.22	~~3450~~ 4046	~~4094~~ 2781	✓									✓		
FR-IA06-092315	9/23/15	1003	1759	30.09	8.13	3450	4094	✓							✓				

Temperature (Fahrenheit)	Interior	Ambient
Start	62°F	54°F
Stop	62°F	75°F

Pressure (inches of Hg)	Interior	Ambient
Start	29.90	29.90
Stop	29.91	29.91

Special Instructions/QC Requirements & Comments:

None

Samples Shipped by: [signature]	Date/Time: 9/24/15 1330	Samples Received by: [signature] TA	9/25/15 1330
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Eric Alongi	Samples Collected By: Chris Finke	3 of 4 COCs
Company: O'Brien & Gere	Phone: 315-956-6100		
Address: 333 W. Washington St.	Email: Eric.alongi@obg.com		
City/State/Zip Syracuse, NY 13221			
Phone: 315-956-6100	Site Contact: Chris Finke		
FAX: 315-437-7554	TA Contact: Don Damicki		
Project Name: Emco Farrell Rd	**Analysis Turnaround Time**		
Site: Farrell Rd	Standard (Specify) X		
PO # —	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
FR-SS07-092315	9/23/15	1011	1814	29.99	6.00	2755	3482	✓									✓		
FR-IA07-092315	9/23/15	1011	1814	30.13	5.27	4724	4315	✓							✓				
FR-SS08-092315	9/23/15	1020	1809	30.14	4.96	4744	4319	✓									✓		
FR-IA08-092315	9/23/15	1020	1809	30.14	6.84	4742	4286	✓							✓				
FR-SS09-092315	9/23/15	1031	1827	29.81	7.19	7743	4076	✓									✓		
FR-IA09-092315	9/23/15	1031	1831	29.96	14.62	5183	4803	✓							✓				

Temperature (Fahrenheit)	Interior	Ambient	
Start	62°F	54°F	
Stop	62°F	75°F	

Pressure (inches of Hg)	Interior	Ambient	
Start	29.90	29.90	
Stop	29.91	29.91	

Special Instructions/QC Requirements & Comments:

None

Samples Shipped by:	Date/Time: 9/24/15 1330	Samples Received by: TA	9/25/15 1330
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Eric Alongi	Samples Collected By: Chris Finke	4 of 4 COCs
Company: O'Brien & Gere	Phone: 315-956-6100		
Address: 333 W. Washington St.	Email: ~~315~~ Eric.alongi@obg.com		
City/State/Zip Syracuse, NY ~~13202~~ 13221			
Phone: 315-~~6~~-956-6100	Site Contact: Chris Finke		
FAX: 315-437-7554	TA Contact: Don Dawicki		
Project Name: LMCO Farrell Rd	**Analysis Turnaround Time**		
Site: Farrell Rd	Standard (Specify) X		
PO # —	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
FR-SSDUP-092315	9/23/15	1031	1831	29.94	14.69	3746	2973	✓									✓		
FR-SS10-092315	9/23/15	1036	1834	30.14	6.68	4503	3505	✓									✓		
FR-IA10-092315	9/23/15	1036	1834	30.00	6.24	4538	3033	✓							✓				
FR-AA-092315	9/23/15	0920	1739	30.17	6.22	2931	5042	✓								✓			

Temperature (Fahrenheit)	Interior	Ambient
Start	62°F	54°F
Stop	62°F	75°F

Pressure (inches of Hg)	Interior	Ambient
Start	29.90	29.90
Stop	29.91	29.91

Special Instructions/QC Requirements & Comments:

None

Fed Ex Tracking #s: 7745 8676 6724
7745 8676 6584
7745 8676 6816, 7745 8676 6735
7745 8676 6573, 7745 8676 6301

Samples Shipped by:	Date/Time: 9/24/15 1330	Samples Received by: TA	9/25/15 1320
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

ORIGIN ID:LKPA (315) 657-7421
CHRISTOPHER FINKE
OBRIEN & GERE
522 GERELOCK RD

GEDDES, NY 13209
UNITED STATES US

SHIP DATE: 24SEP15
ACTWGT: 36.00 LB
CAD: 102146596/INET3670
DIMS: 20x20x17 IN

BILL SENDER

TO SAMPLE RECEIPT
TESTAMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(714) 258-8610 REF: 50238
INV:
PO: DEPT: ENGINEERS

539J2/CBB93/1D0

FedEx Express

J1520150910tw

2 of 6

MPS# 0263 7745 8676 6573
Mstr# 7745 8676 6816

FRI - 25 SEP AA
STANDARD OVERNIGHT

0201

DSR
05403
VT-US BTV

E6 BTVA

ORIGIN ID:LKPA (315) 657-7421
CHRISTOPHER FINKE
OBRIEN & GERE
522 GERELOCK RD

GEDDES, NY 13209
UNITED STATES US

SHIP DATE: 24SEP15
ACTWGT: 36.00 LB
CAD: 102146596/INET3670
DIMS: 20x20x17 IN

BILL SENDER

TO SAMPLE RECEIPT
TESTAMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(714) 258-8610 REF: 50238
INV:
PO: DEPT: ENGINEERS

539J2/CBB93/1D0

FedEx Express

J1520150910tw

4 of 6

MPS# 0263 7745 8676 6584
Mstr# 7745 8676 6816

FRI - 25 SEP AA
STANDARD OVERNIGHT

0201

DSR
05403
VT-US BTV

E6 BTVA

ORIGIN ID:LKPA (315) 657-7421
CHRISTOPHER FINKE
OBRIEN & GERE
522 GERELOCK RD

GEDDES, NY 13209
UNITED STATES US

SHIP DATE: 24SEP15
ACTWGT: 36.00 LB
CAD: 102146596/INET3670
DIMS: 20x20x17 IN

BILL SENDER

TO SAMPLE RECEIPT
TESTAMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(714) 258-8610 REF: 50238
INV:
PO: DEPT: ENGINEERS

539J/CBB9/31D0

FedEx Express

3 of 6

MPS# 0263 7745 8676 6724
Mstr# 7745 8676 6816

0201

FRI - 25 SEP AA
STANDARD OVERNIGHT
DSR

E6 BTVA

05403
VT-US BTV

ORIGIN ID:LKPA (315) 657-7421
CHRISTOPHER FINKE
OBRIEN & GERE
522 GERELOCK RD

GEDDES, NY 13209
UNITED STATES US

SHIP DATE: 24SEP15
ACTWGT: 36.00 LB
CAD: 102146596/INET3670
DIMS: 20x20x17 IN

BILL SENDER

TO SAMPLE RECEIPT
TESTAMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(714) 258-8610 REF: 50238
INV:
PO: DEPT: ENGINEERS

539J/CBB9/31D0

FedEx Express

6 of 6

MPS# 0263 7745 8676 6301
Mstr# 7745 8676 6816

0201

FRI - 25 SEP AA
STANDARD OVERNIGHT
DSR

E6 BTVA

05403
VT-US BTV

ORIGIN ID:LKPA (315) 657-7421
CHRISTOPHER FINKE
OBRIEN & GERE
522 GERELOCK RD

GEDDES, NY 13209
UNITED STATES US

SHIP DATE: 24SEP15
ACTWGT: 36.00 LB
CAD: 102146596/INET3670
DIMS: 20x20x17 IN

BILL SENDER

TO SAMPLE RECEIPT
TESTAMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(714) 258-8610 REF: 50239
INV:
PO: DEPT: ENGINEERS

539J/2/CBB9/31D0

FedEx Express

1 of 6

TRK# 0201 7745 8676 6816

MASTER

FRI - 25 SEP AA
STANDARD OVERNIGHT
DSR

E6 BTVA

05403
VT-US BTV

ORIGIN ID:LKPA (315) 657-7421
CHRISTOPHER FINKE
OBRIEN & GERE
522 GERELOCK RD

GEDDES, NY 13209
UNITED STATES US

SHIP DATE: 24SEP15
ACTWGT: 36.00 LB
CAD: 102146596/INET3670
DIMS: 20x20x17 IN

BILL SENDER

TO SAMPLE RECEIPT
TESTAMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(714) 258-8610 REF: 50239
INV:
PO: DEPT: ENGINEERS

539J/2/CBB9/31D0

FedEx Express

5 of 6

MPS# 0263 7745 8676 6735

Mstr# 7745 8676 6816

0201

FRI - 25 SEP AA
STANDARD OVERNIGHT
DSR

E6 BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 200-29972-1

Login Number: 29972
List Number: 1
Creator: Lavigne III, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Completed Field Data Forms

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Christopher Finke Date/Time Prepared 9/23/15 @ 1300

Preparer's Affiliation O'Brien & Gere Phone No. 315-956-6100

Purpose of Investigation SVI Sampling

1. OCCUPANT: Owner/occupant not present

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? ____

If the property is commercial, type?

Business Type(s) Currently used as warehouse for Rescue Mission Donations

Does it include residences (i.e., multi-use)? Y / N (NA) If yes, how many? ____

Other characteristics:

Number of floors On-grade w/mezzanines Building age ~1950's

Is the building insulated? Y / N partially insulated How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Outdoor air infiltration is primarily at the NE corner where part of the building has been torn down.

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete and	stone metal frame	brick In garage
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	partially covered with tile (vinyl)	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block In garage	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: — (feet) on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Building is large - former industrial. There are several floor drains. Slab is generally competent, without cracks. ~~Garage~~ in main building & garage

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	Hot water - Boilers located in boiler room.
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
~~Electric~~	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: —

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally) (Seldom) Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Unoccupied - Storage for Rescue Mission
2nd Floor	NA
3rd Floor	
4th Floor	

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? (Y) N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) N / NA Please specify_____

d. Has the building ever had a fire? Y / N When? Unknown

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? (Y) N How frequently? - In Garage

h. Have cleaning products been used recently? Y / (N) When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? Unknown

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? (NA) Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? — There is an exhaust fan in the garage

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type? Unknown

Are there odors in the building? (Y) / N

If yes, please describe: Garage odor of motor oil and fuel from cars + lawn equipment. Main building has a strong mold/mildew odor.

Do any of the building occupants use solvents at work? (Y) N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Garage is used for automobile repair.

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) — No
Yes, use dry-cleaning infrequently (monthly or less) — (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: (NA)

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

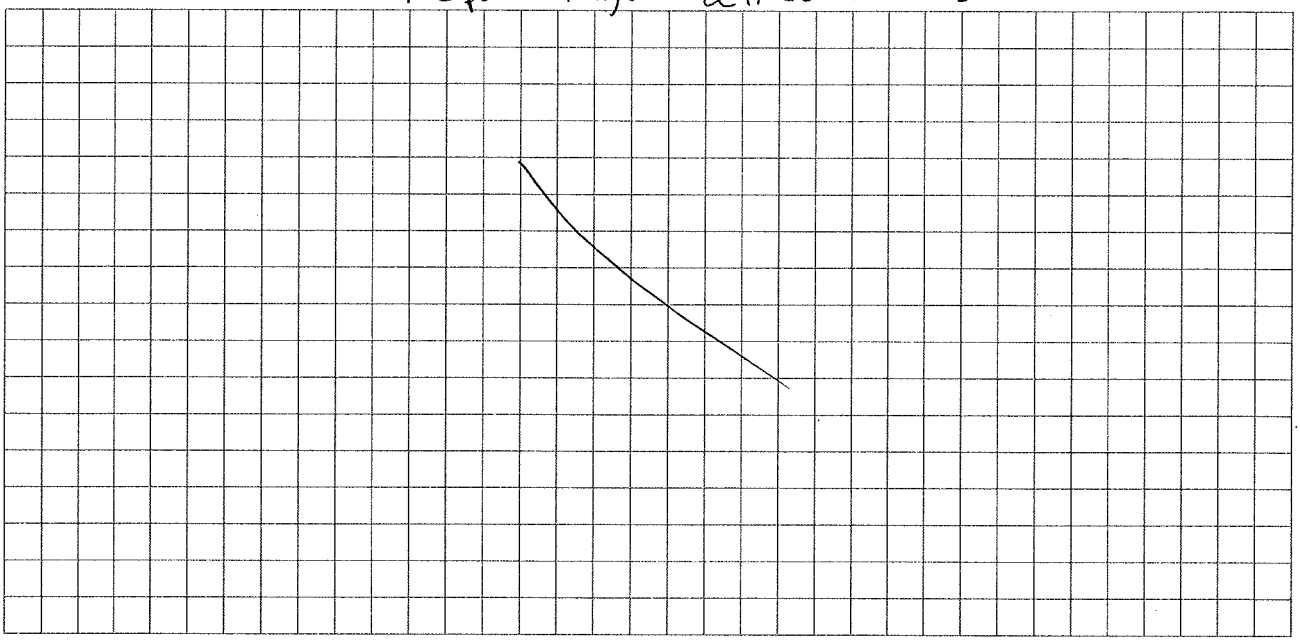
c. Responsibility for costs associated with reimbursement explained? Y / N (NA)

d. Relocation package provided and explained to residents? Y / N

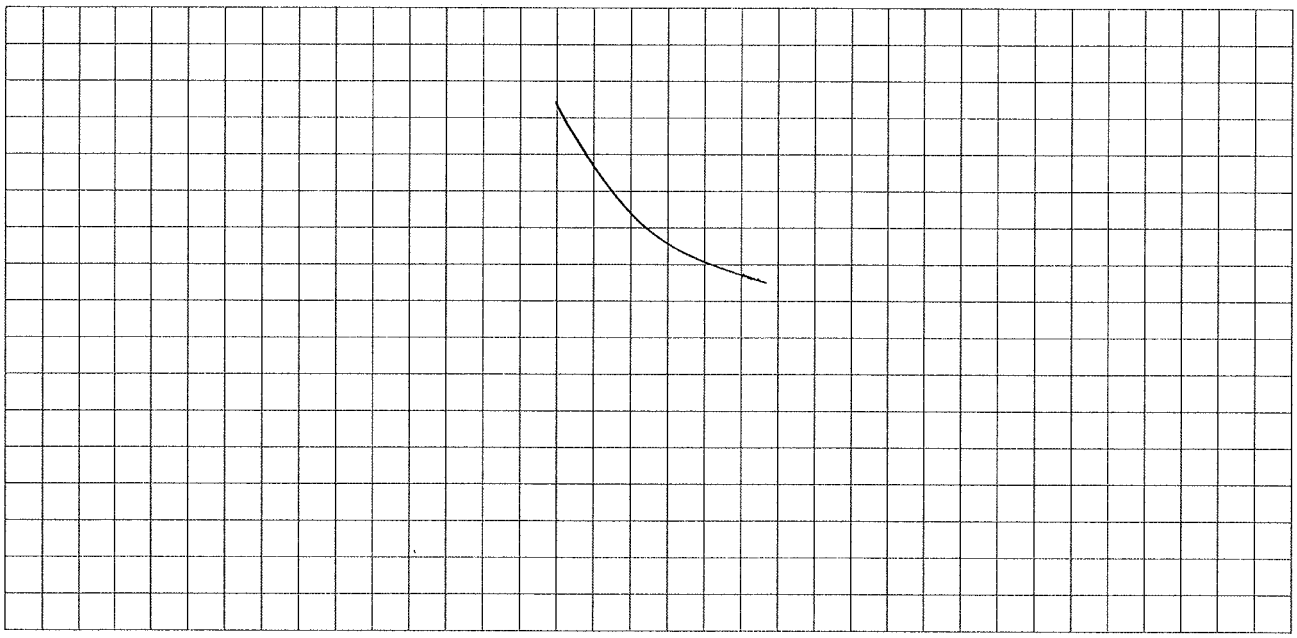
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: See Report Figure attachment.



First Floor:

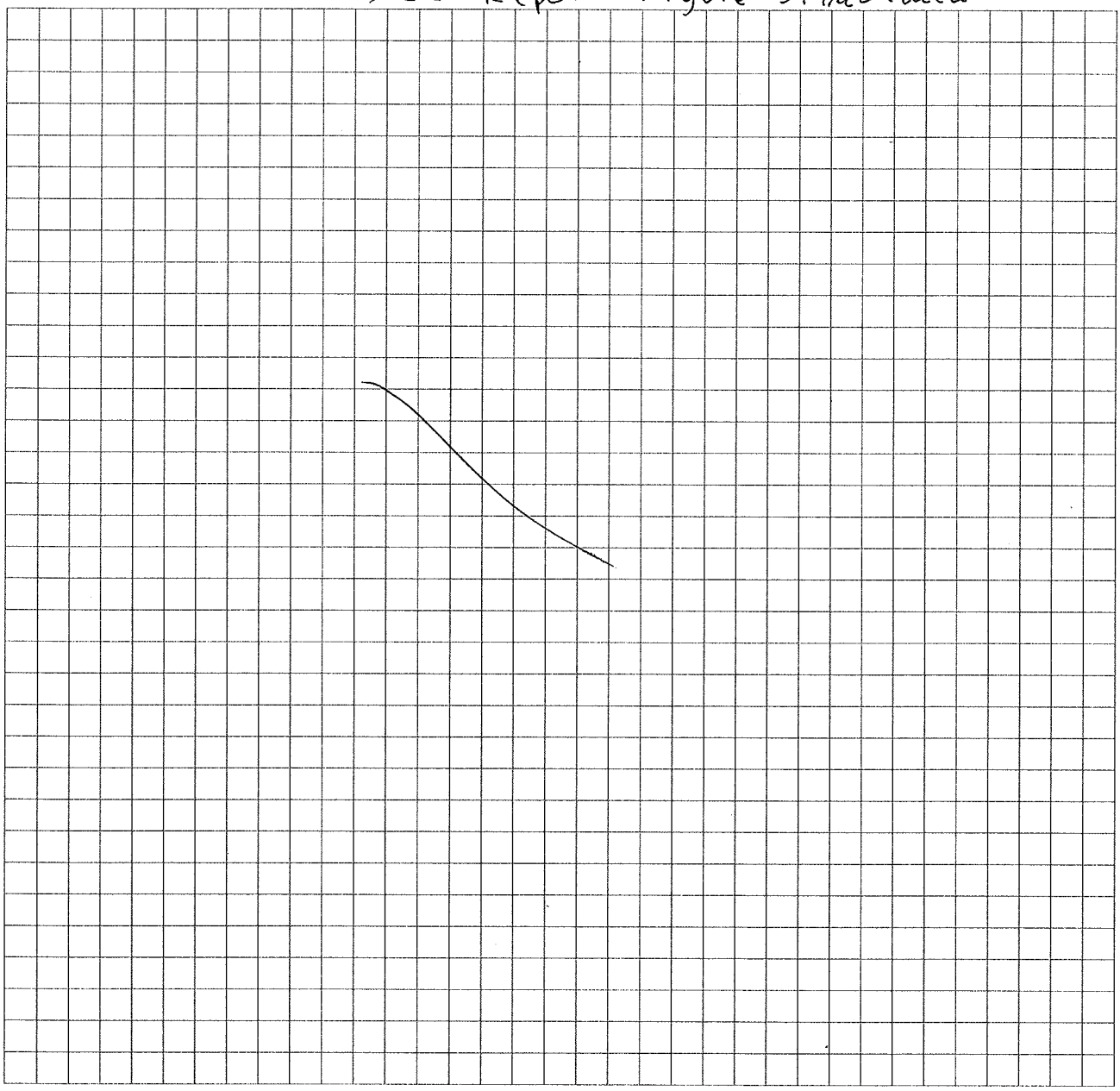


12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See Report Figure Attachment



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
North Garage Tenant	2 snowblowers, 2 chainsaws, 1 soil tiller :			petroleum distallates, gasoline		Y
	2 pump sprayers for pesticides ← assumed: Unknown					Y
South Garage Tenant :	Can Quest Brake Parts Cleaner	12 x 14oz	Used + new	NL		
	Macs Engine Cleaner	4 x 16oz	Used + new	NL		
	PB Blaster Penetrating Catalyst	11oz	Used	Aromatics, Napthalene, Petro. Distillates		
	CRC Sensor Cleaner	11 & 10 oz	Used	Hexane		
	Pyroil Starting Fluid	10 oz	Used	Heptane		
	Valvoline Throttle Body Cleaner	3 oz	Used	Acetone, xylene		
	Motor Oil	~ 10 Qts	Used + new	Petroleum distillates		
	3M Paint Defender	6 cans	Used + new	NL		
	Bars Leaks Radiator Stop Leak	10 oz	Used	NL		
	Gunk Belt Dressing	6 oz		NL		
	Several bottles of	Unknown contents - starter fluid, gasoline				
	Open drain pans of	radiator fluid and motor oil				
	Dupli color Spray paint	~3 x 11oz	Used	Acetone, propane, MEK, Butane, Toluene, Ethanol, MIK		
	Evidence of welding					
	Tires					
Main Building	Open warehouse w/ No	Inventory except Rescue Mission boxes of Contents.			of unknown	

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	~~Building~~ Garage	Weather Conditions	Cool, Clear Skies	PID Meter ID	Pine
Project Name	Lmco Farrell Rd		NE ~~ONE~~ Corner Tenant Space			Date of Calibration	9/23/15
Site Code	7-34-055		—				
Date	9/23/15		—				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-SIA01-092315	Sample ID	~~FB-A~~ FR-SS01-092315	Sample ID		Sample ID	
Canister ID	5148	Canister ID	4355	Canister ID		Canister ID	
Flow Controller ID	4537	Flow Controller ID	5237	Flow Controller ID		Flow Controller ID	
Date/Time start	9/23/15 0919	Date/Time start	9/23/15 0919	Date/Time start		Date/Time start	
Date/Time end	9/23/15 1719	Date/Time end	9/23/15 1719	Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start	0"	Gauge prior to start		Gauge prior to start	
Start Pressure	-30.06"	Start Pressure	-30.11"	Start Pressure		Start Pressure	
End Pressure	-5.67"	End Pressure	-7.08"	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	60°F				
Air temperature (°F)	60°F	PID reading	200 ppb	Air temperature (°F)		Air temperature (°F)	
PID reading	0 ppb	in. tubing used	36"	PID reading		PID reading	
in. tubing used	None	Tubing purged?	Y	in. tubing used		in. tubing used	
Tubing purged?	NA	For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor	Grass, lawn equipment	For indoor location:		For outdoor location:	
		Floor slab depth	5 3/4"				
		Intake depth below floor (in)	1/4"			Noticeable odor	
Noticeable odor	Grass, lawn equipment	Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth	5 3/4"	Room	2nd Bay from East	Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	36"	Story/level	1ST	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	Concrete	SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room	2nd Bay from East			Room		Wind Direction	
Story/level	1ST	SS-Material(Circle)	(Dirt) Wood Stone Fill	Story/level		Wind Speed	
			Pie Post				
Analytical methods required	TO 15	Tracer Gas(if applicable)	Helium	Comments			
Laboratory used	Test America	Chamber concentration	~~86%~~ 85% / 86%				
Sample Duration (Intended)	8 Hr	Purge Concentration	0% / 0%				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	Fiske, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	Cool, Clear Skies	PID Meter ID	Pine
Project Name	LMCO Farrell Rd		Maintenance Garage			Date of Calibration	9/23/15
Site Code	7-34-055		SW Tenant Space		
Date	9/23/15				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP IA-DUP Indoor Air	Ambient
Sample ID: FR-IA02-092315	Sample ID: FR-SS02-092315	Sample ID:	Sample ID: FR-AA-092315
Canister ID: ~~0556~~ 2885	Canister ID: 3361	Canister ID:	Canister ID: 5042
Flow Controller ID: 4763	Flow Controller ID: 3108	Flow Controller ID:	Flow Controller ID: 2931
Date/Time start: 9/23/15 0917	Date/Time start: 9/23/15 0917	Date/Time start:	Date/Time start: 9/23/15 0920
Date/Time end: 9/23/15 1717	Date/Time end: 9/23/15 1717	Date/Time end:	Date/Time end: 9/23/15 1809
Gauge prior to start: 0	Gauge prior to start: 0	Gauge prior to start:	Gauge prior to start: 0
Start Pressure: -29.71	Start Pressure: -30.11	Start Pressure:	Start Pressure: 30.17"
End Pressure: -5.53	End Pressure: -6.17	End Pressure:	End Pressure: 6.22"
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F): 60°F	Air temperature (°F): 60°F	Air temperature (°F):	Air temperature (°F): 54°F
PID reading: 100 ppb	PID reading: 300 ppb	PID reading:	PID reading: 0ppb
in. tubing used: None	in. tubing used: 36"	in. tubing used:	in. tubing used: None
Tubing purged?: NA	Tubing purged?: Y	Tubing purged?:	Tubing purged?: NA
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor: Yes - garbage odor	Noticeable odor: Yes - Garbage odor	Noticeable odor:	Noticeable odor: None
Floor slab depth: 5 3/4"	Floor slab depth: 5 3/4"	Floor slab depth:	Distance to road (ft): Collected on
Intake height above floor (in): 36"	Intake depth below floor (in): 1/4"	Intake depth below/above floor (in):	Direction to site building (°): Fence NW of
Floor surface type: Concrete	Floor surface type: Concrete	Floor surface type:	Distance to site building (ft): Maintenance building
Room: 1st Bay from west	Room: 1st Bay from west	Room:	Intake height above ground level (in): 5.5'
Story/level: 1st	Story/level:	Story/level:	Wind Direction: --
	SS-Moisture(Circle): (DRY) Damp Saturated		Wind Speed: Northerly winds - light
	SS-Material(Circle): (Dirt) Wood Stone Fill		
Analytical methods required: TO 15	Tracer Gas(if applicable): Helium Pce Post	Comments:	
Laboratory used: Test America	Chamber concentration: 85% / 86%		
Sample Duration (Intended): 8-Hr	Purge Concentration: 0% / 0%		

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Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	cool, clear skies	PID Meter ID	Pine
Project Name	Lmco Farrell Rd		North Corner		—	Date of Calibration	9/23/15
Site Code	7-34-055		—				
Date	9/23/15		—				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID: FR-IA03-092315	Sample ID: FR-SS03-092315	Sample ID:	Sample ID:
Canister ID: 4577	Canister ID: 2632	Canister ID:	Canister ID:
Flow Controller ID: 3933	Flow Controller ID: 4247	Flow Controller ID:	Flow Controller ID:
Date/Time start: 9/23/15 0944	Date/Time start: 9/23/15 0944	Date/Time start:	Date/Time start:
Date/Time end: 9/23/15 1731	Date/Time end: 9/23/15 1731	Date/Time end:	Date/Time end:
Gauge prior to start: 0"	Gauge prior to start: 0"	Gauge prior to start:	Gauge prior to start:
Start Pressure: -30.17"	Start Pressure: -30.16"	Start Pressure:	Start Pressure:
End Pressure: -6.22"	End Pressure: -6.91"	End Pressure:	End Pressure:
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F): 62°F	Air temperature (°F): 62°F	Air temperature (°F):	Air temperature (°F):
PID reading: 0ppb	PID reading: 800ppb	PID reading:	PID reading:
in. tubing used: 0"	in. tubing used: 30" + 6" SS	in. tubing used:	in. tubing used:
Tubing purged? NA	Tubing purged? Yes	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
	Noticeable odor: NA		
Noticeable odor: Damp Musty	Floor slab depth: ~~6"~~ 4 3/4"	Noticeable odor:	Noticeable odor:
Floor slab depth: ~~6"~~ 4 3/4"	Intake depth below floor (in): 4	Floor slab depth:	Distance to road (ft):
Intake height above floor (in): 34"	Floor surface type: concrete	Intake depth below/above floor (in):	Direction to site building (°):
Floor surface type: concrete	Room: NA	Floor surface type:	Distance to site building (ft):
Room: NA	Story/level: 1ST	Room:	Intake height above ground level (in):
Story/level: 1ST Floor	SS-Moisture(Circle): (Dry) Damp Saturated	Story/level:	Wind Direction:
	SS-Material(Circle): (Dirt) Wood Stone Fill		Wind Speed:
Analytical methods required: TO 15	Tracer Gas(if applicable): Helium	Comments:	
Laboratory used: Test America	Chamber concentration: Pre 85% / Post 85%		
Sample Duration (intended): 8-Hr	Purge Concentration: 0% / 0%		

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

	Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
	Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	Cool, clear skies	PID Meter ID	Pine
Project Name	Lmco Farrell Rd		East Corner		—	Date of Calibration	9/23/15
Site Code	7-34-055		—				
Date	9/23/15		—				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-IA04-092315	Sample ID	FR-SS04-092315	Sample ID		Sample ID	
Canister ID	5982	Canister ID	4275	Canister ID		Canister ID	
Flow Controller ID	4053	Flow Controller ID	5175	Flow Controller ID		Flow Controller ID	
Date/Time start	9/23/15 0950	Date/Time start	9/23/15 0950	Date/Time start		Date/Time start	
Date/Time end	9/23/15 1746	Date/Time end	9/23/15 1746	Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start	0"	Gauge prior to start		Gauge prior to start	
Start Pressure	-30.18	Start Pressure	-30.18	Start Pressure		Start Pressure	
End Pressure	-6.03	End Pressure	-4.94	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	62°F	Air temperature (°F)	62°F	Air temperature (°F)		Air temperature (°F)	
PID reading	0 ppb	PID reading	100 ppb	PID reading		PID reading	
in. tubing used	None	in. tubing used	30" + 6" SS	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
		Noticeable odor	None				
Noticeable odor	~~No~~ None	Floor slab depth	6½"	Noticeable odor		Noticeable odor	
Floor slab depth	6½"	Intake depth below floor (in)	¼"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	36"	Floor surface type	Concrete	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Room	NA	Floor surface type		Distance to site building (ft)	
Room	NA	Story/level	1st	Room		Intake height above ground level (in)	
Story/level	1st	SS-Moisture(Circle)	(Dry) Damp Saturated	Story/level		Wind Direction	
		SS-Material(Circle)	(Dirt) Wood Stone Fill			Wind Speed	
Analytical methods required	~~TestAm~~ TO 15		Pre Post	Comments			
Laboratory used	Test America	Tracer Gas(if applicable)	Helium				
Sample Duration (Intended)	8-Hr	Chamber concentration	85% / 85%				
		Purge Concentration	0% / 0%				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	cool, clear skies	PID Meter ID	Pine
Project Name	Lmco Farrell Rd		Boiler Room		—	Date of Calibration	9/23/15
Site Code	7-34-055		—				
Date	9/23/15		—				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID: FR-IA05-092315	Sample ID: FR-SS05-092315	Sample ID	Sample ID
Canister ID: 5438	Canister ID: 5660	Canister ID	Canister ID
Flow Controller ID: 3934	Flow Controller ID: 4993	Flow Controller ID	Flow Controller ID
Date/Time start: 9/23/15 0956	Date/Time start: 9/23/15 0956	Date/Time start	Date/Time start
Date/Time end: 9/23/15 1751	Date/Time end: 9/23/15 1751	Date/Time end	Date/Time end
Gauge prior to start: 0"	Gauge prior to start: 0"	Gauge prior to start	Gauge prior to start
Start Pressure: -30.15	Start Pressure: ~~-30.17~~ -30.17	Start Pressure	Start Pressure
End Pressure: -6.65	End Pressure: -7.42	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F): 62°F	Air temperature (°F): 62°F	Air temperature (°F)	Air temperature (°F)
PID reading: 0ppb	PID reading: 100 ~~400~~ ppb	PID reading	PID reading
in. tubing used: None	in. tubing used: ~~30~~ 36"	in. tubing used	in. tubing used
Tubing purged?: NA	Tubing purged?: Yes	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor: None	Noticeable odor: None	Noticeable odor	Noticeable odor
Floor slab depth: 5½"	Floor slab depth: 5½"	Floor slab depth	Distance to road (ft)
Intake height above floor (in): 36"	Intake depth below floor (in): 1/4"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type: Concrete	Floor surface type: Concrete	Floor surface type	Distance to site building (ft)
Room: Boiler Rm	Room: Boiler Rm	Room	Intake height above ground level (in)
Story/level: 1ST	Story/level: 1ST	Story/level	Wind Direction
	SS-Moisture(Circle): (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle): (Dirt) Wood Stone Fill		
	Pre Post		
Analytical methods required: TO 15	Tracer Gas(if applicable): Helium	Comments	
Laboratory used: Test America	Chamber concentration: 86% / 85%		
Sample Duration (Intended): 8-Hr	Purge Concentration: 0% / 0%		

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
	Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	cool, clear skies	PID Meter ID	Pine
Project Name	Lmco Farrell Rd		Center of Building 2		—	Date of Calibration	9/23/15
Site Code	7-34-055		—				
Date	9/23/15		—				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA06-092315	Sample ID	FR-SS06-092315	Sample ID		Sample ID	
Canister ID	4094	Canister ID	2781	Canister ID		Canister ID	
Flow Controller ID	3450	Flow Controller ID	4046	Flow Controller ID		Flow Controller ID	
Date/Time start	9/23/15 10:03	Date/Time start	9/23/15 10:03	Date/Time start		Date/Time start	
Date/Time end	9/23/15 1759	Date/Time end	9/23/15 1759	Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start	0"	Gauge prior to start		Gauge prior to start	
Start Pressure	-30.09	Start Pressure	-30.18	Start Pressure		Start Pressure	
End Pressure	-8.13	End Pressure	-6.22	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	62°F	Air temperature (°F)	62°F	Air temperature (°F)		Air temperature (°F)	
PID reading	0 ppb	PID reading	1100 @~~200~~ ppb	PID reading		PID reading	
in. tubing used	None	in. tubing used	36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	None	Noticeable odor	None	Noticeable odor		Noticeable odor	
Floor slab depth	5 3/4"	Floor slab depth	5 3/4"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	36"	Intake depth below floor (in)	1/4"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room	NA	Room	NA	Room		Intake height above ground level (in)	
Story/level	1st	Story/level	1st	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
			Pre Post				
Analytical methods required	TO15	Tracer Gas(if applicable)	Helium	Comments			
Laboratory used	Test America	Chamber concentration	91% / 87%				
Sample Duration (Intended)	8 Hr	Purge Concentration	0% / 0%				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	cool, clear skies	PID Meter ID	Pine
Project Name	LMCO Farrell Rd		North corner of			Date of Calibration	9/23/15
Site Code	7-34-055		Tenant ~~space~~ 2 space		
Date	9/23/15				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-IA07-092315	Sample ID	FR-SS07-092315	Sample ID		Sample ID	
Canister ID	4315	Canister ID	3482	Canister ID		Canister ID	
Flow Controller ID	4724	Flow Controller ID	2755	Flow Controller ID		Flow Controller ID	
Date/Time start	9/23/15 1011	Date/Time start	9/23/15 1011	Date/Time start		Date/Time start	
Date/Time end	9/23/15 1814	Date/Time end	9/23/15 1814	Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start	0"	Gauge prior to start		Gauge prior to start	
Start Pressure	-30.13	Start Pressure	-29.99	Start Pressure		Start Pressure	
End Pressure	-5.27	End Pressure	-6.00	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	62°	Air temperature (°F)	62°	Air temperature (°F)		Air temperature (°F)	
PID reading	0 ppb	PID reading	200 ppb	PID reading		PID reading	
in. tubing used	None	in. tubing used	36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
		Noticeable odor	None			Noticeable odor	
Noticeable odor	None	Floor slab depth	5 3/4"	Noticeable odor		Distance to road (ft)	
Floor slab depth	5 3/4"	Intake depth below floor (in)	1/4"	Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	36"	Floor surface type	concrete	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	concrete	Room	NA	Floor surface type		Intake height above ground level (in)	
Room	NA	Story/level	1st	Room		Wind Direction	
Story/level	1st	SS-Moisture(Circle)	(Dry) Damp Saturated	Story/level		Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
			Pre Post				
Analytical methods required	TO 15	Tracer Gas(if applicable)	Helium	Comments			
Laboratory used	Test America	Chamber concentration	90% / 89%				
Sample Duration (Intended)	8-Hr	Purge Concentration	0% / 0%				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2	Weather Conditions	cool, clear skies	PID Meter ID	Pine
Project Name	~~FR~~ LMCO Farrell Rd		Near overhead doors on W side of building			Date of Calibration	9/23/15
Site Code	7-34-055						
Date	9/23/15		—				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-IA0809231S	Sample ID	FR-SS08-092315	Sample ID		Sample ID	
Canister ID	4286	Canister ID	4319	Canister ID		Canister ID	
Flow Controller ID	4742	Flow Controller ID	4744	Flow Controller ID		Flow Controller ID	
Date/Time start	9/23/15 10:20	Date/Time start	9/23/15 1020	Date/Time start		Date/Time start	
Date/Time end	9/23/15 1809	Date/Time end	9/23/15 1809	Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start	0"	Gauge prior to start		Gauge prior to start	
Start Pressure	-30.14	Start Pressure	-30.14	Start Pressure		Start Pressure	
End Pressure	-6.84	End Pressure	-4.96	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	62°F				
Air temperature (°F)	62°F	PID reading	100 ppb	Air temperature (°F)		Air temperature (°F)	
PID reading	0 ppb	in. tubing used	36"	PID reading		PID reading	
in. tubing used	None	Tubing purged?	Yes	in. tubing used		in. tubing used	
Tubing purged?	NA	For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor	None	For indoor location:		For outdoor location:	
		Floor slab depth	6 1/2"				
		Intake depth below floor (in)	1/4"			Noticeable odor	
Noticeable odor	None	Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth	6 1/2"	Room	NA	Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	36"	Story/level	1ST	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	Concrete	SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room	NA			Room		Wind Direction	
Story/level	1ST	SS-Material(Circle)	(Dirt) Wood Stone Fill	Story/level		Wind Speed	
			Pre Post				
Analytical methods required	TO 15	Tracer Gas(if applicable)	Helium	Comments			
Laboratory used	Test America	Chamber concentration	9% / 90%				
Sample Duration (Intended)	8-Hr	Purge Concentration	0% / 0%				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.80	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45%	Photographs Taken?	Y
Project #	50234	Sample Location(s)	Building 2	Weather Conditions	Cool, Clear Skies	PID Meter ID	Pine
Project Name	LMCO Farrell Rd		West Corner		—	Date of Calibration	9/23/15
Site Code	7-34-055		—				
Date	9/23/15		—				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air (Dup)	Ambient
Sample ID: FR-IA[illegible]09-092315	Sample ID: FR-SS09-092315	Sample ID: FR-SS09-092315	Sample ID:
Canister ID: 4803	Canister ID: 4076	Canister ID: 2973	Canister ID:
Flow Controller ID: 5183	Flow Controller ID: 7743	Flow Controller ID: 3746	Flow Controller ID:
Date/Time start: 9/23/15 1031	Date/Time start: 9/23/15 1031	Date/Time start: 9/23/15 1031	Date/Time start:
Date/Time end: 9/23/15 1831	Date/Time end: 9/23/15 1827	Date/Time end: 9/23/15 1831	Date/Time end:
Gauge prior to start: 0"	Gauge prior to start: 0"	Gauge prior to start: 0"	Gauge prior to start:
Start Pressure: -29.96	Start Pressure: -29.81	Start Pressure: -29.94	Start Pressure:
End Pressure: -14.62	End Pressure: -7.19	End Pressure: -14.69	End Pressure:
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F): 62°F	Air temperature (°F): 62°F	Air temperature (°F): 62°F	Air temperature (°F):
PID reading: 0ppb	PID reading: 0ppb	PID reading: 0ppb	PID reading:
in. tubing used: None	in. tubing used: 36"	in. tubing used: 36"	in. tubing used:
Tubing purged?: NA	Tubing purged?: Yes	Tubing purged?: Yes	Tubing purged?:
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
	Noticeable odor: None		
	Floor slab depth: 6" 5"		
	Intake depth below floor (in): 1/4"		
Noticeable odor: None	Floor surface type: Concrete	Noticeable odor: None	Noticeable odor:
Floor slab depth: 6" 5"	Room: NA	Floor slab depth: 6"	Distance to road (ft):
Intake height above floor (in): 36"	Story/level: 1st	Intake depth below/above floor (in): 1/4"	Direction to site building (°):
Floor surface type: Concrete	SS-Moisture(Circle): (Dry) Damp Saturated	Floor surface type: concrete	Distance to site building (ft):
Room: NA		Room: NA	Intake height above ground level (in):
Story/level: 1st	SS-Material(Circle): (Dirt) Wood Stone Fill	Story/level: 1st	Wind Direction:
	Pre Post		Wind Speed:
Analytical methods required: TO 15	Tracer Gas(if applicable): Helium	Comments:	
Laboratory used: Test America	Chamber concentration: 87% / 89%		
Sample Duration (Intended): 8-hr	Purge Concentration: 0% / 0%		

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Multiple Vapor Intrusion Sampling Form

Collector(s)	Finke, Knapp	Barometric Pressure(in Hg)	29.90	Building Survey/Chemical Inventory Form Completed?	Y
Structure Location	Farrell Rd, Liverpool	Humidity(%)	45% ~~75%~~	Photographs Taken?	Y
Project #	50238	Sample Location(s)	Building 2 - SE Corner	Weather Conditions	Cool, clear skies	PID Meter ID	Pine
Project Name	Lmco Farrell Rd					Date of Calibration	9/23/15
Site Code	7-34-055				
Date	~~10/8~~ 9/23/15				

Circle Sample Type: SS-DUP IA-DUP Indoor Air

Indoor Air Sample	Sub-structure Sample	SS-DUP	IA-DUP	Indoor Air	Ambient
Sample ID: FR-IA10-092315	Sample ID: FR-SS10-092315	Sample ID			Sample ID
Canister ID: 3033	Canister ID: 3505	Canister ID			Canister ID
Flow Controller ID: 4538	Flow Controller ID: 4503	Flow Controller ID			Flow Controller ID
Date/Time start: 9/23/15 1036	Date/Time start: 9/23/15 1036	Date/Time start			Date/Time start
Date/Time end: 9/23/15 1834	Date/Time end: 9/23/15 1834	Date/Time end			Date/Time end
Gauge prior to start: 0"	Gauge prior to start: 0"	Gauge prior to start			Gauge prior to start
Start Pressure: -30.00	Start Pressure: -30.14	Start Pressure			Start Pressure
End Pressure: 6.24	End Pressure: 6.68	End Pressure			End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:			Complete all that apply:
Air temperature (°F): 62°F	Air temperature (°F): 62°F	Air temperature (°F)			Air temperature (°F)
PID reading: 0 ppb	PID reading: 0 ppb	PID reading			PID reading
in. tubing used: None	in. tubing used: 36"	in. tubing used			in. tubing used
Tubing purged?: NA	Tubing purged?: Y	Tubing purged?			Tubing purged?
For indoor location:	For indoor location:	For indoor location:			For outdoor location:
Noticeable odor: mold/mildew	Noticeable odor: mold/mildew	Noticeable odor			Noticeable odor
Floor slab depth: ~~0~~ 5" 6"	Floor slab depth: ~~0~~ 6"	Floor slab depth			Distance to road (ft)
Intake height above floor (in): 36"	Intake depth below floor (in): 1/4"	Intake depth below/above floor (in)			Direction to site building (°)
Floor surface type: concrete	Floor surface type: Concrete	Floor surface type			Distance to site building (ft)
Room: —	Room: —	Room			Intake height above ground level (in)
Story/level: 1st	Story/level: 1st	Story/level			Wind Direction
	SS-Moisture(Circle): (Dry) Damp Saturated				Wind Speed
	SS-Material(Circle): (Dirt) Wood Stone Fill				
Analytical methods required: TO15	Tracer Gas(if applicable): Helium Pre / Post	Comments			
Laboratory used: Test America	Chamber concentration: 76% / 77%				
Sample Duration (Intended): 8 Hr	Purge Concentration: 0% / 0%				

OBG

THERE'S A WAY

To:	Myron Parkolap	*cc:*	Heather Daniels, LMC
From:	Mark Distler		Phil Talucci, LMC
Re:	Preliminary Vapor Intrusion Sampling Results, Former GE Farrell Road Site, Site # 7-34-055		Virginia Robbins, BS&K
File:	5851/41510		
Date:	March 12, 2009		

This Technical Memorandum (TM) presents the results of sampling conducted at the former GE Farrell Road Site (Site) on December 3, 2008 for the 2008-2009 heating season. The December 3, 2008 sampling was performed in response to the 2007-2008 heating season sampling recommendations presented in the February 21, 2008 report by O'Brien & Gere and a letter from the New York State Department of Environmental Conservation (NYSDEC), dated May 1, 2008.

The sampling was performed in accordance with the previous work plans submitted to NYSDEC to confirm trichloroethene (TCE) and 1,1-dichloroethene (1,1-DCE) concentrations at previous sampling locations (Locations) 3 and 2, respectively. This TM presents the additional sampling data, evaluates it with respect to the potential for vapor intrusion, and provides recommendations for next steps.

1. Site Background

The Site consists of 156 acres in an industrial zone setting located on Farrell Road and John Glenn Boulevard in the Town of Geddes, northeast of Routes 690 and 90 and south of the Seneca River. Nearly half of the Site (81 acres) is classified as a Class I wetlands. Ground water flows in a north/northwest direction across the Site toward Seneca River. Depth to ground water in the developed portion of the Site is approximately ten feet below ground surface (bgs). The developed portion of the Site is paved and contains four on-Site buildings; Buildings 1 and 2, former test building, and maintenance garage. Figure 1 shows Buildings 1 and 2.

There are three primary historic source areas relevant to vapor intrusion potential at the Site, referred to as areas of concern (AOC), where interim remedial measures (IRMs) were implemented.[1] The following identifies the locations (also shown on Figure 1) and gives a description of each AOC:

- AOC 5, located along the west side of Building 2, was an area where nine underground storage tanks (USTs) and a dry well were removed.
- AOC 7, located along the east side of Building 2, was an area of a former fuel oil UST and where drums containing Freon were rinsed.
- AOC 16, located adjacent to the maintenance garage, was an area of a former gasoline UST.

Currently, the Site is classified as Class 4 on the New York State Registry of Inactive Hazardous Waste Disposal Sites, based on the effectiveness of the IRMs. A ground water extraction and treatment system at the Site has been deemed effective at controlling off-site migration of shallow contaminated ground water. Concentrations of VOCs in ground water are periodically measured from samples collected from monitoring wells located at the Site. Building 2 is currently operated by Rite Aid Corporation who uses it as warehouse space for product inventory for its retail outlets.

In response to a request by the NYSDEC in August 2006, LMC conducted sampling at the Site to assess the

[1] Note that there were other AOCs at the Site where some remedial work was completed, but they are not considered relevant to this investigation.

potential for vapor intrusion. LMC retained O'Brien & Gere to conduct the vapor intrusion sampling, which was performed in February 2007 for the 2006-2007 heating season. The results of the sampling were summarized in a technical memorandum in May 2007, in which further monitoring for TCE and 1,1-DCE was recommended for two of the five sampling locations. Further monitoring was conducted in December 2007 for the 2007-2008 heating season, the results of which were reported by O'Brien & Gere in a technical memorandum in February 2008. Comparison of December 2007 results with the February 2007 showed that sub-slab vapor concentrations of 1,1-DCE decreased significantly at one of the two locations (Location 2) while remaining not detected at the other location (Location 3). TCE sub-slab concentration increased at Location 2 while it decreased at Location 3 . Therefore, additional sampling was recommended at Location 2 for 1,1-DCE to confirm the sub-slab concentration decrease and at Location 3 for TCE to monitor its sub-slab concentration. The remainder of the TM discusses the additional sampling and presents the results.

2. Vapor Intrusion Sampling

The vapor intrusion sampling was conducted on December 3, 2008. Samples of sub-slab vapor, indoor air, and ambient air were collected simultaneously over an 8-hour period. Samples were collected in accordance with the approved work plan. Javier Perez of the NYSDEC was present during a portion of the sample collection activities.

2.1 Sampling Locations and Methods

Paired sub-slab vapor and indoor air sample sets were collected at two locations at the northern portion of Building 2, as shown in Figure 1. The sampling locations were re-installed within approximately one-foot of the sampling locations sampled in February 2007. Sample sets were collected at the following locations and for the following compounds:

Sample IDs	Sample Location	Compound
SS-2-FR, IA-2-FR	Location 2 - Middle of northern end of building	1,1-DCE
SS-3-FR, IA-3-FR	Location 3 - Northeast corner of building	TCE

In addition to and concurrent with the sub-slab and indoor air sampling, an ambient air sample (Sample ID AA-FR) was collected immediate to and upwind of the building to assess the potential of impacts from upwind air sources on indoor air concentrations. The ambient air sample was located along a fence southwest of the building, near Farrell Road, as shown on Figure 1.

Air samples were collected using 6-liter pre-evacuated Summa® canisters. Sample collection rates were maintained by laboratory-calibrated constant-differential low volume flow controllers. Vacuum readings of the canisters were obtained and documented prior to sample collection and upon completion of sampling. Sample identifications, vacuum readings, flow controller identification numbers, and other relevant information were recorded on field forms provided in Attachment 1 of this document.

Sub-slab soil vapor samples were collected by drilling a 3/8-inch diameter hole in the building's slab near the locations of the previous sub-slab sampling, inserting inert food-grade tubing, sealing the tubing to the slab with beeswax, purging the tubing of indoor air, and slowly pulling (<15 cc/min) sub-slab vapor into a canister. The ambient and indoor air samples were collected by slowly pulling air into the canisters, which were situated at a height of 3 to 5 feet above the ground or slab. Samples were collected over an 8-hour period, utilizing batch certified-clean canisters for sub-slab samples and canisters that were individually certified-clean for low level

analysis for indoor and ambient air samples. After sample collection, the canisters were shipped under routine chain-of-custody to a subcontracted laboratory, Air Toxics, Ltd. (Air Toxics) of Folsom, CA, where they were analyzed by USEPA Method TO-15. Air Toxics is certified under the Environmental Laboratory Approval Program (ELAP) and by NYSDOH for TO-15 analyses. Canister certifications and Chain-of-Custody forms can be found with the analytical results in Attachment 2.

2.2 Quality Control

One duplicate sub-slab sample (duplicate to SS-3-FR-120308) and one duplicate indoor air sample (duplicate to IA-2-FR-120308) were collected as part of this sampling program. The duplicate sub-slab sample was collected by installing a stainless steel "tee" to the sample tubing from which the canister pulled sub-slab vapor. The combined sampling rate of sub-slab vapor from the duplicate sample locations was less than 0.025 liters per minute. The indoor air duplicate sample and indoor air sample were located within 1 foot of each other, positioned so that indoor air was collected at the same height.

Additionally, a Data Usability Summary Report (DUSR) was prepared for this sampling program to compare sample data with validation criteria prescribed by the United States Environmental Protection Agency's (USEPA) data validation guidance[2]. The DUSR is included as Attachment 3.

3. Building Survey and Chemical Inventory

Prior to sampling, the building tenant (Rite Aid) was requested to provide an inventory of the building's contents so that an inventory of VOC-containing materials (such as aerosols, cleaners) could be documented (nearly all of building contents are warehoused in cardboard boxes without labels describing their contents). This inventory is provided in Attachment 4. Although the inventory is not detailed, it generally contains products such as tableware, holiday decorations, candles (no oils), and miscellaneous items. It does not appear that liquids, aerosols, or chlorinated solvents are included in the building's inventory.

O'Brien & Gere confirmed that the building survey information (e.g., building foundation, utilities, heating and ventilation systems, slab conditions and penetrations) collected during the initial sampling had not changed. Therefore a building survey form is not included in Attachment 4, but the following information is provided as an overview. Building 2's concrete floor (slab) is located on-grade. Except for some narrow cracks in the slab's surface, it is in excellent condition. Multiple floor drains as well as roof drains penetrate the floor throughout the building. The building is used as a warehouse, with few partitioning walls and separate rooms. The building is primarily heated by hot water radiators, located around the perimeter of the building. There is a loading dock area with three overhead doors located along the northern end of the building's west side, where two trucks were being loaded during the sampling. Two fan-operated hot water heating units were located above the dock area. There is a boiler room located near AOC 7, on the eastern side of the building. This room was found to be under neutral pressure with respect to outdoor pressure during boiler operation. There is an office, which is occasionally occupied, located near the loading docks.

[2] United States Environmental Protection Agency (USEPA). 1994. *Region II Validating Canisters of Volatile Organics in Ambient Air,* HW-18, Revision 0. New York, New York.

4. Sampling Results and Data Evaluation

4.1. Sub-Slab and Indoor Air Sampling Results

Sample results for each set of samples (sub-slab and indoor air) are presented together in Table 1 for each sampling location. Results are presented in units of micrograms per cubic meter ($\mu g/m^3$). The laboratory reports are provided as Attachment 2.

4.2. Quality Assurance and Quality Control

Laboratory analytical results were subjected to data validation requirements in accordance with the USEPA procedures, referenced above. Quality assurance/quality control (QA/QC) samples included laboratory blanks, field duplicates, and matrix spike / matrix spike duplicates (MS/MSD).

The DUSR (Attachment 3) reports that there was one minor excursion from method and validation criteria. As a result, the data for the two sub-slab samples at Location 3 for TCE were flagged with a "J" qualifier as approximate due to a minor excursion in precision. The DUSR concludes that 100 percent of the data can be considered complete and usable for qualitative and quantitative purposes.

4.3. Data Evaluation

The sample results were evaluated to assess if:

- indoor air concentrations were attributable to vapor intrusion,
- sub-slab and indoor air concentrations changed significantly since the previous sampling, and
- sub-slab and indoor air concentrations require any follow-on actions as recommended by NYSDOH's two soil vapor / indoor air matrices.

4.3.1. Vapor Intrusion Evaluation

For Location 3, sub-slab concentrations of TCE were found to be 390 $\mu g/m^3$ and 550 $\mu g/m^3$ in the sub-slab and sub-slab duplicate samples, respectively. Indoor air concentrations of TCE at Location 3 were found to be below the analytical reporting limit for this compound (<0.90 $\mu g/m^3$).

At Location 2, 1,1-DCE was found below the analytical detection limit (<0.69 $\mu g/m^3$) in the sub-slab sample and at a concentration of 1.1 $\mu g/m^3$ in the indoor air sample.

Since no detectable levels of TCE were found in the indoor air and 1,1-DCE indoor air concentrations were found above the sub-slab sample concentration, we conclude that vapor intrusion is not occurring at detectable levels. However, the TCE concentration in the sub-slab at Location 3 has the potential to intrude at detectable levels in the future if slab conditions change.

4.3.2 Comparison of Results to Previous Sampling

Table 2 provides a side-by-side comparison of the February 2007 (2006-2007 heating season), December 2007 (2007-2008 heating season), and December 2008 (2008-2009 heating season) sampling results. The comparison shows that there was little change in the sub-slab and indoor air concentrations for TCE between the December

2007 and December 2008 sampling events.

The sub-slab concentration for 1,1-DCE at Location 2 during the December 2008 sampling event was similar to the concentration detected during the December 2007 sampling event, both significantly lower than the February 2007 1,1-DCE concentration.

The indoor air concentration of 1,1-DCE at Location 2 during the December 2008 sampling event was essentially the same as the indoor air concentration measured during the December 2007 sampling event. Both these concentrations of 1,1-DCE were lower than the 1,1-DCE concentration initially measured during the February 2007 sampling event, corresponding with the same trend in the sub-slab samples. It appears that the 1,1-DCE found in the indoor air and sub-slab samples collected in February 2007 has dissipated.

4.3.3. NYSDOH Matrices

The NYSDOH guidance document has soil vapor / indoor air matrices for a few compounds including TCE and 1,1-DCE. Using the sub-slab and indoor concentrations, the matrices suggest the next step in managing potential vapor intrusion. Table 1 includes a column for each sampling location and each compound that presents the recommended next step suggested by the matrices, using the indoor air and sub-slab vapor results.

For TCE at Location 3, the matrix suggests that mitigation be performed because the sub-slab vapor concentration is high enough that it may potentially cause future indoor air exposure if the slab or building conditions were to change. For 1,1-DCE at Location 2, the matrix suggests that no further action is necessary.

5. Summary and Recommendations for Next Steps

Similar to the December 2007 sample event, 1,1-DCE was found at significantly lower concentrations than the February 2007 sample event in both sub-slab vapor and indoor air, thereby confirming that 1,1-DCE has dissipated from the sub-slab. Based on the last two sampling events, NYSDOH guidance suggests that no further action is necessary for 1,1-DCE. That is our recommendation as well.

As discussed above, vapor intrusion is not occurring at detectable levels for TCE, and sub-slab and indoor air concentrations are relatively unchanged from previous sampling conducted in February and December 2007. Although the NYSDOH decision matrix suggests that mitigation should be considered to prevent future potential vapor intrusion, the guidance also states that its recommended actions are generic and can be modified to accommodate building-specific conditions. Therefore we recommend no further action regarding TCE at Location 3 as an alternative to mitigation for the following reasons:

1. The indoor air concentrations for TCE have been well below the NYSDOH air guideline value of 5 $\mu g/m^3$ over the 22 month monitoring period.
2. The building slab is in very good condition.
3. The building is entirely unoccupied during weekends and most of each workday. During the 8 to 10 hours per workday that it is occupied, the few building occupants rarely spend any time in the Location 3 area. Therefore, the amount of potential future exposure would be significantly less than the assumptions used by NYSDOH in developing its air guideline value.
4. Annual monitoring (re-sampling) has been performed and has not detected evidence of vapor intrusion.
5. Sub-slab vapor concentrations appear to be stable and well documented via the three sampling events.

The recommendation of no further action is predicated on 1) the slab staying intact and 2) the building not modified appreciably. Therefore, we also recommend that annual inspections of the building be conducted to identify slab breaches and building modifications. If breaches are found, we recommend that they are sealed, and if they cannot be sealed, then additional sub-slab and indoor air sampling be conducted. If building modifications are made that could increase the potential for sub-slab vapors to intrude (enclosing the areas above the slab, making them more air tight and creating a negative indoor air pressure), then additional sub-slab and indoor air sampling be conducted. The inspection findings and follow-on actions would be documented in a letter report after each annual inspection.

Attachments: Table 1 – Summary of Vapor Intrusion Sampling Results
Table 2 – Comparison of Vapor Intrusion Sampling Results (2007 and 2008)
Figure 1 – Sampling Locations
Attachment 1 – Field Data Forms
Attachment 2 – Sample Analysis Data
Attachment 3 – Data Usability Summary Report
Attachment 4 – Building Inventory

Table 1
Summary of Vapor Intrusion Sampling Results
Former GE Farrell Road (NYSDEC Site # 7-34-055)
Geddes, NY

		Sample Location:		2				3			
		Sample Type:	Ambient	Sub-Slab	Indoor Air	Indoor Air		Sub-Slab	Sub-Slab	Indoor Air	
	Indoor Air Background	Sample I.D.:	AA-FR-120308	SS-2-FR-120308	IA-2-FR-120308	IA-DUP-FR-120308	NYSDOH	SS-3-FR-120308	SS-DUP-FR-120308	IA-3-FR-120308	NYSDOH
Compound	Levels[a]	Sample Date:	12/3/08	12/3/08	12/3/08	12/3/08	Matrix[b]	12/3/08	12/3/08	12/3/08	Matrix[b]
Trichloroethene	<0.88		<0.77	NA	NA	NA	NA	390 J	550 J	<0.90	Mitigate
1,1-Dichloroethene	<0.65		<0.57	<0.69	1.1	0.94	NFA	NA	NA	NA	NA

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

[a] Indoor air concentrations measured in commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile from the EPA 2001 BASE Database as reported in the NYSDOH vapor intrusion guidance (October 2006).

[b] NYSDOH vapor intrusion guidance (Oct 2006) recommends actions based on the combination of sub-slab and indoor air concentrations.

<## - Compound not detected above the reporting limit (##).

J - Results reported as approximate values assigned by the data validator due to minor precision excursion.

NFA - No further action as recommended by NYSDOH guidance.

Mitigate - NYSDOH guidance recommends mitigation of high sub-slab concentrations to protect against future potential vapor intrusion if slab conditions change.

O'BRIEN & GERE

Table 2
Comparison of Vapor Intrusion Sampling Results (2007 and 2008)
Former GE Farrell Road Site (NYSDEC Site # 7-34-055)
Geddes, NY

	Sample Location:	*2*						*3*					
	Sample Type:	Sub-Slab			Indoor Air			Sub-Slab			Indoor Air		
	Sample I.D.:	SS-DUP-FR[a]	SS-2-FR-121707	SS-2-FR-120308	IA-2-FR	IA-2-FR-121707	IA-2-FR-120308	SS-3-FR	SS-3-FR-121707	SS-DUP-FR-120308[a]	IA-3-FR	IA-3-FR-121707	IA-3-FR-120308
Compound	Sample Date:	2/20/07	12/17/07	12/3/08	2/20/07	12/17/07	12/3/08	2/20/07	12/17/07	12/3/08	2/20/07	12/17/07	12/3/08
Trichloroethene		8.2	3.4	NA	0.39	<0.96	NA	340	500	550	0.32	<0.88	<0.90
1,1-Dichloroethene		300	<0.68	<0.69	4.1	<0.71	1.1	<1.3	<1.2	NA	3.6	1.0	NA

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

<## - Compound not detected above the reporting limit (##).

NA - Not analyzed

[a] Sample results from a the field duplicate were found to be slightly higher than those of the sample collected and are therefore presented instead.

I:Div01\Projects\5851\41510\Docs\MXD\Sampling Locations 010909.mxd

FIGURE 1

LEGEND

SUB-SLAB, INDOOR AIR AND AMBIENT AIR SAMPLE LOCATIONS*

SITE BOUNDRY*

NOTES:
* - APPROXIMATE LOCATIONS

FORMER GE
FARRELL ROAD SITE
GEDDES, NY

SAMPLING LOCATIONS

0 50 100 200
Feet

January 2009
5851/41510

O'BRIEN & GERE

PLOT DATE: 1/9/2008 DIV.001 KAC

This document was developed in color. Reproduction in B/W may not represent the data as intended.

ATTACHMENT 1

Field Data Forms

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project # 41510
Project Name Lmco Farrell Rd.
Date 12/3/08
Collector CJF, NL

Structure Location
241 Farrell Rd
PID/FID meter ID PINE ppb RAE
Sample Duration (Intended) 8 Hours

Sample Locations
Same location as previous
~~IA~~ Location #2 sample

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP	Ambient ↓
Sample ID IA-2-FR-120308	Sample ID SS-2-FR-120308	Sample ID IA-DUP-FR-120308	AA-FR-120308
Canister ID 12017	Canister ID ~~36046~~ 33907	Canister ID 36046	33669
Flow Controller ID 12017	Flow Controller ID 33907	Flow Controller ID 36046	33669
Date/Time start 12/3/08 0851	Date/Time start 12/3/08 0851	Date/Time start 12/3/08 0851	0908
Date/Time end 12/3/08 1651	Date/Time end 12/3/08 1653	Date/Time end 12/3/08 1651	1708
Gauge prior to start 0	Gauge prior to start 0	Gauge prior to start 0	0
Start vacuum 29.7 "Hg	Start vacuum 29.7 "Hg	Start vacuum 29.7 "Hg	29.7 "Hg
End vacuum 6.6 "Hg	End vacuum 7.2 "Hg	End vacuum 7.6 "Hg	7.0 "Hg
Complete all that apply:	Complete all that apply:	Complete all that apply: For ambient:	
Air temperature (°F) ~60°	Air temperature (°F) ~60°	Air temperature (°F) 34°	
PID/FID reading 0 ppb	PID/FID reading ⊗ NA	PID/FID reading 0 ppb	
in. tubing used Ø	in. tubing used 36"	in. tubing used Ø	
Tubing purged? NA	Tubing purged? Yes	Tubing purged? NA	
For indoor location:	For indoor location:	For outdoor location:	
Noticeable odor No	Noticeable odor No	Noticeable odor No	
Intake height above floor (in) 40"	Floor slab depth 5 1/2"	Distance to road (ft) ~30'	
Floor surface type Concrete	Intake depth below floor (in) 1/4"	Direction to closest building (degrees) North	
Room Warehouse	Floor surface type Concrete	Distance to closest building (ft) ~70ft	
Story/level On-Grade	Room Warehouse	Intake height above ground level (in) ~30"	
	Story/level On-Grade	—	

Building Survey and Chemical Inventory Form Completed? Y - Collected from tenant.
Photographs Taken? Y

Comments:

Analytical method required TO-15 1,1-DCE @ Location 2; 1,1-DCE, TCE @ ambient
Laboratory used Air Toxics

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project # 41510
Project Name Farrell Rd
Date 12/3/08
Collector CJF, NL

Structure Location
241 Farrell Rd
PID/FID meter ID PINE ppb RAE 11006
Sample Duration (Intended) 8 Hr

Sample Locations
Same as previous location #3 sample.

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air SS-DUP Ambient IA-DUP	
Sample ID	IA-~~FR~~-3-FR-120308	Sample ID	SS-~~FR~~-3-FR-120308	Sample ID	SS-DUP-FR-120308
Canister ID	9408	Canister ID	5699	Canister ID	4038
Flow Controller ID	9408	Flow Controller ID	Not labelled	Flow Controller ID	Not labelled
Date/Time start	12/3/08 0830	Date/Time start	12/3/08 0830	Date/Time start	12/3/08 0830
Date/Time end	12/3/08 1632	Date/Time end	12/3/08 1632	Date/Time end	12/3/08 1632
Gauge prior to start	0	Gauge prior to start	0	Gauge prior to start	0
Start vacuum	29.8 "Hg	Start vacuum	29.6 "Hg	Start vacuum	29.8 "Hg
End vacuum	6.6 "Hg	End vacuum	6.6 "Hg	End vacuum	6.3 "Hg
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~55°	Air temperature (°F)	~55°	Air temperature (°F)	
PID/FID reading	0	PID/FID reading	NA	PID/FID reading	
in. tubing used	None	in. tubing used	36"	in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?	
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	
Intake height above floor (in)	40"	Floor slab depth	6 1/4"	Distance to road (ft)	
Floor surface type	Concrete	Intake depth below floor (in)	1/4"	Direction to closest building (degrees)	
Room	Warehouse	Floor surface type	Concrete	Distance to closest building (ft)	
Story/level	On-Grade	Room	Warehouse	Intake height above ground level (in)	
	-	Story/level	On-Grade		

Building Survey and Chemical Inventory Form Completed? Y - taken from tenant
Photographs Taken? Y

Comments: PID readings were taken throughout the building and of inventory - No readings above 0 ppb were observed except for a reading of 100 ppb taken from under a floor plate above a trench SE of location #3

Analytical method required TCE for sample location 3
Laboratory used Air Toxics

O'BRIEN & GERE

Vapor Intrusion Weekly Weather and Sample Log

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs
12/1/08	0945	32	30.16	None	South	5-10 mph	None

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used
LMCO Former	AA-CS-120108	SS-2-CS-120108 / IA-2-CS		1	2	9
GE Lower St		SS-3-CS-120108 / IA-3-CS	SS-DUP-120108 & IA-DUP-120408	2	2	
		SS-4-CS-" / IA-4-CS		1	1	

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs
12/3/08	1100	34°F	30.15	None	South	0-5 mph	None

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used
LMCO Former	AA-FR-120308	SS-2-FR-120308 / IA-2-FR-120308	IA-DUP-120308	1	3	7
GE Farrell Rd		SS-3-FR-120308 / IA-3-FR-120308	SS-DUP-120308	2	1	

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used

Date	Time	Air Temperature (°F)	Barometric Pressure ("Hg)	Rainfall	Wind Direction	Wind Speed (mph)	Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs

Structures Sampled	Ambient Sample ID	Associated SS & IA Sample ID's	Duplicate Sample ID(s)	Batch Cans Used	Indiv. Cert. Cans used	Total Cans Used

Weekly Totals

Structures Sampled	Ambient Samples	Duplicate Samples	Batch Cans Used	Individ. Cert. Cans Used	Total Cans Used

ATTACHMENT 2

Sample Analysis Data

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

12/22/2008

Mr. Mark Distler
OBrien & Gere
5000 Brittonfield Parkway

E. Syracuse NY 13057

Project Name: LMCO Farrell Rd
Project #: 41510.001.001

Dear Mr. Mark Distler

The following report includes the data for the above referenced project for sample(s) received on 12/5/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Bryanna Langley

Bryanna Langley
Project Manager

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0812173

Work Order Summary

CLIENT:	Mr. Mark Distler OBrien & Gere 5000 Brittonfield Parkway E. Syracuse, NY 13057	**BILL TO:**	Mr. Mark Distler OBrien & Gere 5000 Brittonfield Parkway E. Syracuse, NY 13057
PHONE:	315-437-6100	**P.O. #**	
FAX:	315-463-7554	**PROJECT #**	41510.001.001 LMCO Farrell Rd
DATE RECEIVED:	12/05/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/18/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SS-2-FR-120308	Modified TO-15	7.0 "Hg	5 psi
02A	IA-2-FR-120308	Modified TO-15	6.5 "Hg	5 psi
03A	IA-DUP-FR-120308	Modified TO-15	7.5 "Hg	5 psi
04A	SS-3-FR-120308	Modified TO-15	5.0 "Hg	5 psi
04AA	SS-3-FR-120308 Lab Duplicate	Modified TO-15	5.0 "Hg	5 psi
05A	SS-DUP-FR-120308	Modified TO-15	6.0 "Hg	5 psi
06A	IA-3-FR-120308	Modified TO-15	6.0 "Hg	5 psi
07A	AA-FR-120308	Modified TO-15	5.5 "Hg	5 psi
08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Frumarc DATE: 12/18/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
OBrien & Gere
Workorder# 0812173

Five 6 Liter Summa Canister (100% Certified) and two 6 Liter Summa Canister samples were received on December 05, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-2-FR-120308

Lab ID#: 0812173-01A

No Detections Were Found.

Client Sample ID: IA-2-FR-120308

Lab ID#: 0812173-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.17	0.28	0.68	1.1

Client Sample ID: IA-DUP-FR-120308

Lab ID#: 0812173-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.18	0.24	0.71	0.94

Client Sample ID: SS-3-FR-120308

Lab ID#: 0812173-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.40	72	2.2	390

Client Sample ID: SS-3-FR-120308 Lab Duplicate

Lab ID#: 0812173-04AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.40	92	2.2	490

Client Sample ID: SS-DUP-FR-120308

Lab ID#: 0812173-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.42	100	2.2	550

Client Sample ID: IA-3-FR-120308

Lab ID#: 0812173-06A

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: IA-3-FR-120308

Lab ID#: 0812173-06A

No Detections Were Found.

Client Sample ID: AA-FR-120308

Lab ID#: 0812173-07A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-2-FR-120308

Lab ID#: 0812173-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121721**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 12/18/08 12:07 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.18	Not Detected	0.69	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-2-FR-120308

Lab ID#: 0812173-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121722**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 12/18/08 12:40 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.17	0.28	0.68	1.1

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-DUP-FR-120308

Lab ID#: 0812173-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121723**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 12/18/08 01:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.18	0.24	0.71	0.94

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-3-FR-120308

Lab ID#: 0812173-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121724**	**Date of Collection: 12/3/08**	
Dil. Factor:	**4.02**	**Date of Analysis: 12/18/08 01:42 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.40	72	2.2	390

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-3-FR-120308 Lab Duplicate

Lab ID#: 0812173-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121732**	**Date of Collection: 12/3/08**	
Dil. Factor:	**4.02**	**Date of Analysis: 12/18/08 07:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.40	92	2.2	490

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-DUP-FR-120308

Lab ID#: 0812173-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121725**	**Date of Collection: 12/3/08**	
Dil. Factor:	**4.20**	**Date of Analysis: 12/18/08 02:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.42	100	2.2	550

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-FR-120308

Lab ID#: 0812173-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121726**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/18/08 02:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.17	Not Detected	0.90	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-FR-120308

Lab ID#: 0812173-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121727**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 12/18/08 04:04 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0812173-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 12:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0812173-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 10:54 AM**	

Compound	**%Recovery**
1,1-Dichloroethene	114
Trichloroethene	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	98	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0812173-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 11:34 AM**	

Compound	**%Recovery**
1,1-Dichloroethene	115
Trichloroethene	105

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

ATTACHMENT 3

Data Usability Summary Report

To:	Mark Distler	*cc:*
From:	Karen A. Storne	
Re:	Review of Data for the Vapor Intrusion Sampling, Former GE Farrell Road Site, Performed December 2008	
File:	5851/41510.100.100	
Date:	February 5, 2009	

This memorandum presents the results of the data validation of the sub-slab, indoor, and ambient air samples collected from the Former GE Farrell Road Site in Geddes, New York. Sample collection activities were conducted by O'Brien & Gere on December 3, 2008.

The following table summarizes the analysis performed for this sampling event.

Table 1-1. *Analytical method and reference*

Parameter	Method	Reference
VOCs	USEPA Method TO-15	1

Note:
1. United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.* Cincinnati, Ohio.

Air Toxics LTD. of Folsom, California (Air Toxics) performed the analyses.

The laboratory packages generated by Air Toxics contained quality control analysis and supportive raw data.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.* Cincinnati, Ohio.

- O'Brien & Gere. 2007. *Vapor Intrusion Sampling Work Plan, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York.* Syracuse, New York.

Data affected by excursions from the previously mentioned QA/QC criteria are qualified using the following USEPA data validation guidance and professional judgment:

- United States Environmental Protection Agency (USEPA). 2006. *Validating Volatile Organic Analysis of Ambient Air in canister by Method TO-15,* HW-31, Revision 4. New York, New York.

USEPA data validation guidelines have been modified to reflect the requirements of the method used in the analysis of samples collected for this sampling event. Qualifiers are applied to data that fail to meet the quality control criteria presented in the USEPA method.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in this type of data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected (i.e., quantitation limit).

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria. This qualifier is also applied by the laboratory for organic analyses when the analyte concentration was greater than the method detection limit (MDL) but less than the quantitation limit (QL).

"UJ" Indicates that the analyte was not detected and the quantitation limit may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the quantitation limit or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Work plan compliance
- Chain-of-custody records
- Sample collection and canisters
- Holding times
- Calibrations
- Blank analysis
- Laboratory control sample (LCS)/Laboratory control sample duplicate (LCSD) analysis
- Field duplicate analysis
- Internal standards performance
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check
- Target analyte quantitation, identification, and QLs
- Documentation completeness.

The samples that were submitted for data validation are listed in Table 1-2 presented in Attachment A.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VALIDATION APPROACH

The following validation approach was applied for USEPA Method TO-15:

- The cumulative effect of the various QA/QC excursions is employed in assigning the final data qualifiers. For example, if a sample result is affected by low LCS recovery for which the "J" qualifier is applied, but severely low internal standard recoveries result in the rejection of the sample result (R), the final qualifier is "R". QA/QC excursions that do not result in the qualification of an analyte typically are not discussed.

- The "J" qualifier applied by the laboratory to organic results that were greater than the MDL but less than the QL was retained during the validation process.

- VOC target analytes are evaluated using the criteria of either 30 percent relative standard deviation (%RSD) for initial calibrations or calibration coefficient of greater than 0.990 for calibration curves. The calibration verifications are evaluated using the criteria of 30 percent difference (%D). Target analyte relative response factors (RRFs) should be greater than or equal to 0.05 for initial calibrations and calibration verifications.

- A holding time of 30 days from sample collection to analysis is used to evaluate holding times.

- In the case of blank contamination, samples that contain target analytes at less than five times the associated blank concentration and common laboratory contaminants at less than ten times the associated blank concentration are qualified as undetected (U). In the case that sample concentrations impacted by blank contamination are less than the QL, the concentration qualified as non-detected (U) is raised to the QL level.

- Laboratory established control limits were used to assess LCS and surrogate data, where available.

- Internal standard recoveries are evaluated using control limits of within 40% of the standard area of the associated calibration verification standard. For internal standard area recoveries of 10% or greater but less than the lower standard area, the associated target analyte results are qualified as approximate (J, UJ) to indicate minor internal standard recovery excursions. For internal standard area recoveries of less than 25%, associated non-detected results for target analytes are rejected (R) to indicate major internal standard recovery excursions.

- If percent recoveries are less than laboratory control limits but greater than 10%, non-detected and detected results are qualified as approximate (J, UJ). If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J). If percent recoveries are less than 10%, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R).

- Field duplicate data were evaluated against relative percent difference (RPD) criteria of less than 25% for air samples when results were greater than five times the quantitation limit. When sample results for field duplicate pairs were less than five times the quantitation limit, the data were evaluated using control limits of plus or minus two times the quantitation limit. If RPDs for field duplicates are outside of validation criteria, detected and non-detected results are qualified as approximate (UJ, J). Qualification of data associated with field duplicate excursions is limited to the field duplicate pair.

SAMPLE COLLECTION AND CANISTERS

Consistent with previous sampling events and the Work Plan, canister blanks were not collected.

VOLATILE ORGANIC COMPOUND IN AIR DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Work plan compliance
- Chain-of-custody records

- Holding times
- Calibrations
- Blank analysis
- LCS/LCSD analysis
- Internal standards performance
- GC/MS instrument performance check
- Target analyte identification
- Documentation completeness.

Excursions from validation criteria and additional observations are presented in the following section.

I. Field duplicate analysis

The results for trichloroethene in samples SS-3-FR-120308 and SS-DUP-FR-120308[SS-3-FR-120308] were qualified as approximate (J) due to a minor field duplicate RPD excursion.

II. Target analyte quantitation and QLs

As part of laboratory policy, air samples submitted to Air Toxics are routinely pressurized at the time of receipt at the laboratory. This pressurization step allows sufficient sample volume to be available in the case that multiple analyses are necessary for analysis. This step dilutes the sample within the canister which results in an increase in the QL.

Due to elevated concentrations of target analytes, additional dilutions were used in the analysis of samples SS-3-FR-120308 and SS-DUP-FR-120308[SS-3-FR-120308].

DATA USABILITY

Overall data usability with respect to completeness for the final sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

Table 1-2. Cross Reference Table

Samples collected and submitted for data validation

Laboratory Name	Laboratory Identification	Client Identification	Date Collected	Matrix	Analysis Requested
Air Toxics	0812173-01	SS-2-FR-120308	12/3/2008	Sub-slab Air	TO15
Air Toxics	0812173-02	IA-2-FR-120308	12/3/2008	Indoor Air	TO15
Air Toxics	0812173-03	IA-DUP-FR-120308[IA-2-FR-120308]	12/3/2008	Indoor Air	TO15
Air Toxics	0812173-04	SS-3-FR-120308	12/3/2008	Sub-slab Air	TO15
Air Toxics	0812173-05	SS-DUP-FR-120308[SS-3-FR-120308]	12/3/2008	Sub-slab Air	TO15
Air Toxics	0812173-06	IA-3-FR-120308	12/3/2008	Indoor Air	TO15
Air Toxics	0812173-07	AA-FR-120308	12/3/2008	Ambient Air	TO15

Notes

Air Toxics indicates Air Toxics LTD. of Folsom, California.

DUP indicates field duplicate collected at location shown in brackets.

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-2-FR-120308 ✓

Lab ID#: 0812173-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121721**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 12/18/08 12:07 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.18	Not Detected	0.69	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

2

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-2-FR-120308 ✓

Lab ID#: 0812173-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121722**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 12/18/08 12:40 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.17	0.28	0.68	1.1

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-DUP-FR-120308 ✓ [IA-2-FR]

Lab ID#: 0812173-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121723**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 12/18/08 01:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.18	0.24	0.71	0.94

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-3-FR-120308 ✓

Lab ID#: 0812173-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121724**	**Date of Collection: 12/3/08**	
Dil. Factor:	**4.02**	**Date of Analysis: 12/18/08 01:42 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.40	72 J	2.2	390 J

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

5

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SS-DUP-FR-120308 ✓ [SS-3-FR]

Lab ID#: 0812173-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121725**	**Date of Collection: 12/3/08**	
Dil. Factor:	**4.20**	**Date of Analysis: 12/18/08 02:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.42	100 J	2.2	550 J

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-FR-120308 ✓

Lab ID#: 0812173-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121726**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.68**	**Date of Analysis: 12/18/08 02:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.17	Not Detected	0.90.	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-FR-120308

Lab ID#: 0812173-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s121727**	**Date of Collection: 12/3/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 12/18/08 04:04 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130

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AA61

ATTACHMENT 4

Building Inventory

UOM ↓

vendor	item	description	uom	case pk	
35836	144152	PAJAMA PANT PROMO	6	72	ROME
35836	160668	LBR TRACK PANTS	6	48	UTICA
32978	160822	PC KB COFFEE KITCHEN TOWEL	1	24	
32978	160823	PC KB COFFEE FOR ONE	1	4	92529
32978	160824	SL KB COFFEE TRAY W/HANDLES	2	12	92510
32978	160825	SL KB COFFEE ESPRESSO MUG	6	24	92508
32978	160826	SL KB COFFEE BOWL 6IN	12	48	92505
32978	160827	SL KB COFFEE TIDBIT DISH	6	48	92507
32978	160828	SL KB COFFEE SIDE PLATE 8IN	6	48	92503
32978	160829	SL KB COFFEE VSHAPE MUG 12Z	8	24	92509
32978	160830	SL KB COFFEE DINNER PLATE	6	48	92504
32978	160831	SL KB COFFEE JUMBO MUG 22Z	4	12	
32978	160832	SL KB COFFEE LATTE MUG 16Z	6	24	92506
34656	236521	CS KB COFFEE BREAK 2FT DISPLAY	1	✓ 1	92554
34656	236522	CS KB COFFEE BREAK 30IN DISPLAY	1	✓ 1	92555
34656	236523	CS KB COFFEE BREAK 3FT DISPLAY	1	✓ 1	92556
35378	953036	CS XWH TRAY TABLE SET 5PC	1	1	92553
37643	9100187	SL FLEECE THROW	8	24	92501
36269	9100351	CS SEAGRASS BASKET	1	1	92551
36269	9100355	CS RUSH SEAGRASS BASKET	1	1	92552
36269	9100358	PC WILLOW BASKET W/HANDLES	1	6	92527
35624	9100425	SL BOLSTR PILLOW SWTHRT-STRBT	3	6	
36269	9100428	PC SEAGRASS BASKET 3PC SET	1	6	92532
43063	9100429	PC SMALL STORAGE BIN	1	12	92526
43063	9100430	PC UTILITY BASKET ASST	1	12	92528
43063	9100431	PC SEAGRASS RUSH & MAIZE BSKT	4	12	92530
38746	9100432	PC PILLOW PETS	1	6	
43270	9100433	SL MINI PURSE	6	72	92500
43270	9100434	SL LADIES TOTE BAG 12X12X4	4	48	92502
35836	9204132	SL LBR BABYDOLL T-SHIRT	12	72	
35836	9204133	SL LBR TRACK JACKET	12	36	

55/84

		springbridge					
VENDOR	ITEM #	DESCRIPTION	UOM	CS PK	cs slv pc	pioneer slot	comment
39972	9003407	SB METAL-MIRROR PLAQUE	1	4	pc	93596	
39972	9003408	SB METAL WALL DECORATION	2	12	slv	93593	
39972	9003409	SB METAL WALL DECORATION	2	12	slv	93590	
39972	9003410	SB METAL WALL DECORATION	2	12	slv	93594	
39972	9003411	SB MIRROR WALL DECORATION	2	12	slv	93592	
39972	9003412	SB WOOD WALL DECORATION	3	12	slv	93546	
39972	9003413	SB METAL WALL SCONCE	1	8	pc	93511	
39972	9003414	SB IRON CANDLEHOLDER	1	6	pc	~~93551~~	93513
39972	9003416	SB METAL CANDLE HOLDER	2	12	slv	93552	
39972	9003417	SB BAMBOO CHIME 29IN	3	24	slv	93571	
43148	9003426	SB 150ML REED DIFFUSER	4	12	slv	93607	
43057	9003440	SB FLOOR MAT 27 X 18	4	4	cs		
37026	9003442	SB POTPOURRI BAG	4	12	slv	93542	
37026	9003445	SB SPRING BOUQUET	3	3	cs	93500	
35254	9003446	SB LED CANDLE BO 2PK	6	48	slv	93567	
38075	9003449	SB INSPIRATIONAL ANGEL 8IN	4	36	slv	93548	
38075	9003466	SB TODDLER CHERUB	3	72	slv	93553	
38075	9003467	SB SPRING CROWN FAIRY	4	72	slv	93555	
38075	9003468	SB FAIRY CANDLE HOLDER	2	24	slv		
38075	9003469	SB BUTTERFLY FAIRY	3	48	slv	93558	
38075	9003470	SB INSPIRATIONAL FRAME	3	18	slv	93554	
38075	9003471	SB DAFFODIL T-LITE HOLDER	4	48	slv	93557	
38075	9003472	SB FLOWER PILLAR HOLDER	4	24	slv	93559	
38075	9003475	SB ANGEL T-LITE HOLDER	3	12	slv	93561	
38075	9003478	SB INSPIRATIONAL ANGEL	6	24	slv	93563	
38075	9003480	SB INSPIRATIONAL ANGEL 5.5IN	6	72	slv	93560	
38075	9003481	SB BABY FAIRY DANGLER	4	48	slv	93576	
38075	9003482	SB FAIRY ON STUMP	2	48	slv	93578	
38075	9003483	SB PIGGY BANK	4	48	slv	93562	
38075	9003484	SB ANGEL IN HANDS	2	96	slv	93564	
38075	9003485	SB FISHING OLD MAN	3	24	slv	93566	
38075	9003486	SB INSPIRATIONAL PLAQUE	6	48	slv	93550	
38075	9003487	SB BOOT PLANTER	2	48	slv	93565	
35398	9003490	SB 10IN SHELL HANGER	3	24	slv	93541	
37487	9003494	SB DOUBLE T-LITE HOLDER	2	24	slv	93582	
37487	9003495	SB 5IN T-LITE HOLDER	2	36	slv	93584	
37487	9003498	SB INSPIRATIONAL PLAQUE	6	24	slv	93580	
37487	9003500	SB HINGED BOX WITH ANGEL	3	48	slv		
37487	9003504	SB PASTEL T-LITE HOLDER	4	32	slv	93586	
38650	9003524	SB BIG EYED FROG	4	64	slv	93573	
38650	9003528	SB SITTING ANGEL 6.1IN	2	12	slv	93570	
38654	9003531	SB 54IN CANVAS WALL BANNER	4	12	slv		
38654	9003532	SB 30IN CANVAS WALL BANNER	4	24	slv		
35137	9003533	SB SHELL CHIME WITH WOOD	3	12	slv	93543	
35137	9003534	SB HANGING SEASHELLS 27IN	2	12	slv	93545	
35137	9003535	SB HANGNG SEASHELLS 23IN	4	12	slv	93547	
30479	9003537	SB 16IN FLORAL WREATH	2	12	slv	93577	
30479	9003538	SB FLORAL BUSH X 12	2	48	slv	93579	

30479	9003539	SB FLORAL BUSH X 9	2	120	slv	93581	
30479	9003540	SB FLORAL SWAG 26IN	2	30	slv	93583	
30479	9003541	SB FLORAL GARLAND72IN	2	48	slv	93585	
38650	9003544	SB INSPIRATIONAL ROCK	4	24	slv	93575	
38650	9003549	SB DRIPLOOK LED CANDLE 6IN	4	32	slv	93587	
38650	9003559	SB DRIPLOOK LED CANDLE 4IN	4	32	slv	93589	
43056	9003569	SB SPRING METAL FROG 5IN	4	48	slv	93572	
35367	9003570	SB 3IN TULIP CANDLEHOLDER	3	24	slv		
35367	9003571	SB MINI LANTERN	4	48	slv		
35367	9003572	SB GLASS WALL PLAQUE	3	48	slv		
35367	9003574	SB INSPIRATIONAL CROSS	4	48	slv		
35367	9003575	SB GLASS T-LITE HOLDER	3	12	slv		
35367	9003577	SB LG LEAF METAL CANDLEHLDR	1	6	pc		
35367	9003578	SB SM LEAF METAL CANDLEHLDR	1	6	pc		
35367	9003580	SB T-LITE HOLDER BUTTERFLY	4	36	slv		
35367	9003581	SB 3.2IN FLOWER CANDLEHOLDER	4	24	slv		
32331	9003582	SB TEDDY WREATH 14 IN	2	12	slv	93596	
32331	9003584	SB SPRING WREATH 14IN	2	12	slv	93556	
32331	9003586	SB 6IN MONEY BANK	3	12	slv	93568	
32331	9003587	SB SPRING WREATH 14 IN	2	12	slv		
32331	9003588	SB SPRING DOLL WREATH	2	12	slv	~~93568~~	93595
32331	9003589	SB WELCOME WREATH 14 IN	2	12	slv	93604	
32331	9003590	SB FLORAL WREATH 20IN	2	6	slv	93597	
32331	9003591	SB SPRING SCENE WREATH	2	12	slv	93605	
35635	9003593	SB FARM ANIMAL BANK10IN	3	3	cs	93501	
43216	9003595	SB DOZEN WOODEN ROSES	6	48	slv	93544	
37143	9003596	SB INSPIRATIONAL GLOBE 5IN	3	24	slv	93598	
37143	9003597	SB WARMEST WISHES PLAQUE	5	10	slv	93603	
37143	9003598	SB INSPIRATIONAL PLAQUE	3	24	slv	93599	
37143	9003599	SB CANDLEHOLDER ANGEL, ROSE	3	24	slv	93602	
37143	9003600	SB ANGEL PICTURE FRAME	3	24	slv	93600	
37143	9003603	SB MIRRORED MESSAGES PLAQUE	4	48	slv	93601	
37143	9003604	SB LOVE IN LETTER BOX	3	36	slv	93606	
43056	9003605	SB METAL BIKE PLANTER 11IN	1	12	pc	93512	93512
43056	9003606	SB METAL ANIMAL 7.28IIN	3	24	slv	93569	
35137	9003847	SB HANGING SEASHELLS 32IN	3	12	slv	93549	
39972	9003848	SB METAL WALL DECORATION	1	12	pc	93515	93515
39972	9003850	SB MOTHER AND CHILD	4	32	slv	93574	

easter

vendor	item	description	uom	cs pk	cs,slv,pc	pioneer slot	comment
35254	9003227	EAS TIE DYE EGGS	1	36	pc		
32177	9003230	EAS BASKET GIFT BAGS	6	144	slv		
32177	9003231	EAS SPECKLED EGGS DECO KIT	1	32	pc		
32177	9003232	Eas Color + Cups Eggs Coloring	1	72	pc		
32177	9003233	EAS TIE DYE EGGS DECO KIT	1	18	pc		
32177	9003234	EAS EGG COLORING KIT	1	36	pc		
32177	9003235	EAS GLITTER EGGS DECO KIT	1	18	pc		
32177	9003236	EAS 5 IN 1 EGG DECO KIT	1	18	pc		
32177	9003237	EAS EASTER SUNDAY EGG DYE KIT	1	32	pc		
32177	9003238	EAS MARBLE SWIRLS EGG DECO KIT	1	18	pc		
32177	9003241	EAS DUNK AN EGG DECO KIT	1	18	pc		
32177	9003242	EAS PROMO BASKET ASST	12	72	slv		
32177	9003244	EAS FABRIC BASKET ASST	4	24	slv		
32177	9003247	EAS SPORTS CANDY CONTAINERS	1	48	pc		
32177	9003248	EAS 10PK CRAZY EGGS	1	48	pc		
35560	9003253	EAS PAAS EGG HEADS DECO KIT	1	48	pc		
35560	9003255	EAS PAAS DECORATING PARTY DECO	1	19	pc		
31887	9003256	EAS EGG DYE KITS LICENSED ASST	6	18	slv		
37591	9003257	EAS STANDING BUNNY 24IN	2	2	cs		
36176	9003259	EAS EASTER BASKET BAG ASST	4	240	slv		
39972	9003260	EAS BASKET W/CHENILLE TRIM T-C	1	1	cs		
39972	9003261	EAS BAMBOO BASKET W/HANDLE T-C	1	1	cs		
39972	9003262	EAS BAMBOO BASKET W/HANDLE T-C	1	1	cs		
39972	9003263	EAS WHEEL CART W/HANDLE T-CO	1	1	cs		
39972	9003264	EAS WILLOW BASKET W/HANDLE T-C	1	1	cs		
39972	9003265	EAS EGG SHAPED BASKET T-CODE M	1	1	cs		
39972	9003266	EAS MAIZE PURSE W/HANDLE	6	24	slv		
39972	9003285	EAS 6PK EGGS BRIGHT	1	18	pc	97051	
39972	9003286	EAS 6PK EGGS BRIGHT PEARL	1	18	pc	97053	
39972	9003288	EAS 6PK EGGS BRIGHT FROST	1	18	pc	97055	
39972	9003289	EAS 6PK EGGS PASTEL FROST	1	18	pc	97057	
39972	9003290	EAS 12PK EGGS BRIGHT PEARL	1	18	pc	97059	
39972	9003291	EAS 12PK EGGS BRIGHT	1	18	pc	97061	
39972	9003292	EAS 12PK EGGS BRIGHT FROST	1	18	pc	97063	
39972	9003293	EAS 12PK EGGS PASTEL FROST	1	18	pc	97065	
39972	9003294	EAS 12PK EGGS PASTEL	1	18	pc	97067	
39972	9003295	EAS 10PK CONVERSATION EGGS	1	18	pc	97060	
39972	9003296	EAS 6PK DECORATIVE EGGS	1	24	pc	97058	
39972	9003297	EAS 36PK PLASTIC EGG ASST	1	12	pc	97056	
39972	9003298	EAS 36PK EGGS BRIGHT FROST	1	12	pc	97054	
39972	9003299	EAS PLASTIC BASKET	6	48	slv	97021	
39687	9003300	EAS ANIMATED TRUCK BASKETS	2	4	slv		
39687	9003302	EAS CAMO EASTER BASKET	3	3	cs		
33696	9003303	EAS BUCKET LICENSED ASST	4	12	slv		
39687	9003304	EAS BUNNY WITH BASKET 18IN	3	3	cs		
39687	9003305	EAS CHEST BOX ASSORTMENT	2	4	slv		
35252	9003306	ETP-SITTING BUNNY PLUSH	1	48	pc		
35465	9003308	ETP-15IN EASTER FLOPPY PALS	1	36	pc		
35425	9003309	ETP-10IN EASTER BUNNY	1	108	pc		
35465	9003310	ETP-5IN SINGING DUCK	1	96	pc		
43216	9003311	ETP-8.5IN CHOCOLATE BUNNY	1	36	pc		
35465	9003312	ETP-EASTER MUSICAL PALS	1	96	pc		
35465	9003313	ETP-12IN EASTER FLOPPY PALS	1	48	pc		
36749	9003314	ETP-15IN BUNNY ASST.	1	12	pc		
35465	9003316	ETP-12IN CROUCHING BUNNY	1	36	pc		
35252	9003319	ETP-LAYING SOFT PLUSH ASST.	1	12	pc		
43184	9003321	ETP-13IN EASTER ANIMAL ASST.	1	24	pc		

35465	9003322	ETP-7IN EASTER SINGING IDOLS	1	24	pc		
35465	9003323	ETP-11IN SING & ROCK BUNNY	1	6	pc		
35768	9003324	ETP-12IN FLOPPY ANIMALS	1	14	pc		
37883	9003325	ETP-BUNNY SIPPER	1	24	pc		
35252	9003326	ETP-27IN EASTER BUNNY	1	4	pc		
37212	9003328	ETP-10IN ANIMAL W/BUNNY EAR	1	24	pc		
35252	9003329	ETP-12.5IN BUNNY W/BASKET	1	12	pc		
35252	9003330	ETP-SITTING LAMB	1	36	pc		
35252	9003331	ETP-9.5IN EASTER W/EMBROIDERY	1	24	pc		
35465	9003334	ETP-12IN EASTER SOFT BUNNY	1	36	pc		
35465	9003336	ETP-8IN TELL-A-STORY BUNNY	1	12	pc		
35425	9003337	ETP-10IN BUNNY ASST. COLOR	1	96	pc		
35425	9003339	ETP-12IN BUNNY	1	72	pc		
43216	9003341	ETP-14IN DUCKS	1	12	pc		
35471	9003342	ETP-HIP HOP BUNNY ASST.	1	12	pc		
35465	9003346	ETP-4.5IN PALM PET	1	72	pc		
35465	9003349	ETP-BASKET BUNNY	1	48	pc		
35465	9003350	ETP-7IN EASTER POP UP	1	48	pc		
35465	9003351	ETP-5IN BUNNY CLIP-ONS	1	48	pc		
35465	9003352	ETP-2.5IN PALM PET	1	72	pc		

33/32

vendor	code	valentine description	uom	case pack	cs,slv pc	pioneer slot	comments
31914	9003172	VNV 14IN BO DANCING FLOWER	2	12	slv	93029	
37574	9003173	VNV VALENTINE GEL CLINGS	4	192	slv	93026	
36176	9003175	VNV LARGE GIFT BAG	4	240	slv		
36176	9003176	VNV SMALL BOX 3.75IN	8	24	slv		
35236	9003180	VNV CANDLE WITH SONG	1	24	pc	93070	
31887	9003181	VNV LENTICULAR GIRLS CARDS	12	12	cs	93000	
31887	9003182	VNV LENTICULAR BOYS CARDS	12	12	cs	93002	
31887	9003185	VNV GIFT CARD HOLDER	4	24	slv	93024	
32177	9003186	VNV VALENTINE CARD GAME	2	72	slv	93031	
32177	9003187	VNV LOTTO FOR LOVERS	1	72	pc	93055	
32177	9003188	VNV LOVE COUPONS	1	96	pc	93053	
32177	9003189	VNV SPIN THE BOTTLE BUTTON	1	144	pc	93051	
32177	9003192	VNV LOVER MESSAGE DICE	2	72	slv	93020	
36176	9003196	VNV VALENTINE BUTTON SET	1	144	pc		
36176	9003198	VNV TALL JR CUB GIFT BAG	4	240	slv		
36176	9003200	VNV CUB KRAFT HARD HANDLE	4	240	slv		
36176	9003202	VNV VALENTINE CLIP ATTACHMENT	10	120	slv		
37143	9003203	VNV LOVE KEEPSAKE BOX	3	48	slv	93016	
39972	9003209	VNV MENS VAL BOXERS	4	24	slv		
39972	9003210	VNV LADIES APPAREL SET	3	24	slv	93022	
32331	9003215	VNV LOVE CUFF	2	96	slv	93018	
32331	9003216	VNV KEYCHAIN MUSICAL PLUSH	4	48	slv	93025	
32331	9003217	VNV VAL PLUSH IN MUG	2	12	slv	93027	
32331	9003218	VNV DOOR KNOB HANGER	4	96	slv	93023	
32331	9003221	VNV HANGING LOVE MESSAGE	3	48	slv	93019	
32331	9003222	VNV SING & DANCE SIGN 9IN	2	12	slv	93032	
32331	9003223	VNV SING-DANCE FROGS-BED	2	6	slv	93030	
32331	9003224	VNV PLUSH LOVE TALKER	4	72	slv	93028	
32331	9003225	VNV BEAR -TRINKET BOX	2	24	slv	93034	
32331	9003226	VNV 80 SCENT ROSE PETALS	2	48	slv	93017	
35465	9003356	VTP-12IN VAL LOVE PUPPY	1	48	pc	93076	
35465	9003357	VTP-15IN VAL TEDDY W/HEART	1	48	pc	93062	
35465	9003358	VTP-8IN VAL SINGING IDOL	1	24	pc	93069	
35465	9003360	VTP-11IN SING & DANCE PUPPY	1	6	pc	93047	
35465	9003361	VTP-SING & DANCE GROOVY	1	6	pc	93073	
35465	9003363	VTP-17IN TEDDY W/HEART	1	12	pc	93065	
35465	9003364	VTP-17IN VAL FLOPPY PUPPY	1	12	pc	93067	
35465	9003365	VTP-12IN PUPPY-HISPANIC	1	48	pc	93061	
35465	9003366	VTP-22IN VAL FLOPPY PALS	1	8	pc	93049	
35465	9003368	VTP-22IN VAL HEART TEDDY	1	6	pc	93071	
35252	9003369	VTP-SITTING BEAR W/HEART	1	12	pc		
35565	9003370	VTP-20IN FLOPPY BEAR ASST.	1	4	pc	93054	
35465	9003371	VTP-9IN VAL LOVE GORILLA	1	12	pc	93043	
35465	9003372	VTP-12IN LOVE FLOPPY PUPPY	1	48	pc	93064	
35465	9003373	VTP-9IN VAL LOVE PUPPY	1	48	pc	93066	
35471	9003374	VTP-CLUB DAWGS ASST.	1	12	pc	93072	
35471	9003375	VTP-DANCING BEAR ASST.	1	6	pc	93060	
35471	9003376	VTP-FLIRTY FLASHERS ASST.	1	6	pc	93075	
35465	9003377	VTP-12IN VAL FLOPPY PUPPY	1	48	pc	93078	
35465	9003378	VTP-8IN VAL ROSE TEDDY	1	48	pc	93046	
35465	9003380	VTP-25IN VAL PALS W/HEART	1	2	pc	93050	

38749	9003382	VTP-29IN VAL BEAR	1	4	pc	93052	
35425	9003383	VTP-11IN SITTING BEAR	1	72	pc	93058	
35471	9003387	VTP-LOTSA LOVIN ASST.	1	12	pc	93077	
35471	9003388	VTP-FANATICS BEAR	1	4	pc	93074	
35768	9003389	VTP-12.5IN HEART PLUSH	1	12	pc		
43195	9003390	VTP-HEART TO HEART DOGS	1	24	pc	93059	
43195	9003391	VTP-VAL COUPLES	1	24	pc	93057	
43231	9003393	VTP-VAL BEARS ASST.	1	24	pc		
43231	9003394	VTP-9IN VAL BEAR	1	12	pc		
43231	9003395	VTP-13IN VALENTINE ASST.	1	12	pc		
35465	9003396	VTP-TEDDY GIFT CARD HOLDER	1	36	pc	93063	
35465	9003397	VTP-8IN PAL CARD HUGGER	8	48	slv	93021	
38749	9003398	VTP-6IN VAL GORILLA	1	24	pc	93056	
43184	9003400	VTP-9IN MONKEY	1	48	pc		

Data Usability Summary Reports

DATA VALIDATION MEMORANDUM

TO: M Distler **cc:** Eric Alongi
FROM: KA Storne
RE: Data Usability Summary Report for the Former GE Farrell Road Site
VI Sampling – Performed February 2016
FILE: 5851/50238.002.100
DATE: May 10, 2016

This Data Usability Summary Report (DUSR) presents the data validation results for indoor air, sub-slab soil gas and ambient air samples collected by O'Brien & Gere in February 2016 for the Lockheed Martin Corporation (LMC) at the Former GE Farrell Road Site.

Alpha Analytical (Alpha) of Mansfield, Massachusetts performed the laboratory analyses for the sampling event. The laboratory package generated by Alpha contained summary forms for quality control analysis and supportive raw data.

The analysis performed for this sampling event is summarized in Table 1 below.

Table 1. ***Analytical Methods and References***

Parameter	Method	Reference
Volatile Organic Compounds (VOCs)	USEPA Method TO-15	1

Note:
1. United States Environmental Protection Agency. 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.

The samples submitted for review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated for this investigation. Table 4 presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA), 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Cincinnati, Ohio.
- O'Brien & Gere. 2015. *Vapor Intrusion Sampling Work Plan - Revised, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York.* Syracuse, New York (Work Plan).

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 2014. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6*. Albany, New York

USEPA data validation guidelines have been modified to reflect the requirements of the methods used in the analysis of samples collected for this sampling event. Qualifiers were applied to data that failed to meet the quality control criteria presented in the USEPA methods.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records;
- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- Laboratory control sample (LCS) analysis;
- Internal standards performance;
- Field duplicate analysis;
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check;
- Target analyte quantitation, identification, and quanitation limits (QLs); and
- Documentation completeness.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Holding times;
- Blank analysis;
- LCS analysis;
- Internal standards performance;
- Field duplicate analysis;
- GC/MS instrument performance check;

Excursions from method or validation criteria and additional observations are described below.

I. DOCUMENT COMPLETENESS

Supplemental information was requested to complete the validation process.

II. CHAIN-OF-CUSTODY RECORDS

For the samples collected 2/19/16, the time the samples were relinquished from the field location to the Alpha courier was not listed on the record.

III. CANISTER EVALUATION

The laboratory evaluated the pre-sampling and post-sampling flow rates of the sample flow controllers, applying an acceptance criterion of 20% RPD. Due to minor flow controller flow rate check excursions, the result for the following samples were qualified as approximate (UJ, J): FR-IA01-021916, FR-IA04-021916, FR-SS04-021916 and FR-IA05-021916.

IV. CALIBRATIONS

Results in the following samples were qualified as approximate (UJ) due to minor calibration accuracy excursions:

- 1,2,4-Trichlorobenzene and Hexachlorobutadiene in samples FR-IA01-021916, FR-AA01-021916, FR-IA02-021916, FR-IA03-021916, FR-IA04-021916, FR-IA05-021916, FR-IA06-021916, FR-IA07-021916, FR-IA08-021916, FR-IA09-021916, FR-IA10-021916 and FR-IA11-021916.

VI. TARGET ANALYTE QUANTITATION, IDENTIFICATION AND QLS

Dilutions were performed for samples FR-SS02-021916, FR-SS06-021916 and FR-SS08-021916 due to high concentrations of target analytes. As a result of the dilutions, reported detection limits were elevated.

The following results were qualified as approximate (UJ, J) due to interferences identified by the laboratory during analysis:

- Acetone in samples FR-IA01-021916, FR-IA02-021916, FR-IA03-021916, FR-IA04-021916, FR-IA05-021916, FR-IA06-021916, FR-IA07-021916, FR-IA08-021916, FR-IA09-021916, FR-IA10-021916 and FR-IA11-021916.
- Acetone in samples FR-SS02-021916, FR-SS08-021916, FR-SS09-021916 and FR-SS11-021916.
- Isopropanol in samples FR-IA01-021916, FR-IA02-021916 and FR-IA11-021916.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

DATA VALIDATION MEMORANDUM

TO:	M Distler	cc:	EM Alongi – OBG
FROM:	KA Storne		
RE:	Data Usability Summary Report for the Former GE Farrell Road Site VI Sampling – Performed January 2017		
FILE:	5851/64466.001.019		
DATE:	March 17, 2017		

This Data Usability Summary Report (DUSR) presents the data validation results for indoor air and ambient air samples collected by O'Brien & Gere in January 2017 for the Lockheed Martin Corporation (LMC) at the Former GE Farrell Road Site.

Alpha Analytical (Alpha) of Mansfield, Massachusetts performed the laboratory analyses for the sampling event. The laboratory package generated by Alpha contained summary forms for quality control analysis and supportive raw data.

The analysis performed for this sampling event is summarized in Table 1 below.

Table 1. ***Analytical Methods and References***

Parameter	Method	Reference
Volatile Organic Compounds (VOCs)	USEPA Method TO-15	1

Note:

1. United States Environmental Protection Agency. 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.

The samples submitted for review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated for this investigation. Table 4 presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA), 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Cincinnati, Ohio.
- O'Brien & Gere. 2015. *Vapor Intrusion Sampling Work Plan - Revised, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York.* Syracuse, New York (Work Plan).

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 2014. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6*. Albany, New York

Qualifiers were applied to data that failed to meet the quality control criteria presented in the USEPA methods.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records;
- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- Laboratory control sample (LCS) analysis;
- Internal standards performance;
- Field duplicate analysis;
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check;
- Target analyte quantitation, identification, and quanitation limits (QLs); and
- Documentation completeness.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Holding times;
- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;

- LCS analysis;
- Internal standards performance;
- Field duplicate analysis;
- GC/MS instrument performance check;

Excursions from method or validation criteria and additional observations are described below.

I. DOCUMENT COMPLETENESS

Supplemental information was requested to complete the validation process.

II. CHAIN-OF-CUSTODY RECORDS

For the samples collected 1/17/17, the samples were relinquished 1/24/17 at 14:41 and were received by the next party on 1/25/17. During that transfer, although there is a time and date gap, the laboratory indicated that the samples were relinquished to an Alpha courier and were within control of Alpha personnel after that sample transfer. Also, the time the samples were received on 1/25/17 was illegible on the record. The samples were received at the Alpha laboratory on 1/25/17 at 11:50.

III. TARGET ANALYTE QUANTITATION, IDENTIFICATION AND QLS

The following results were qualified as approximate (UJ, J) due to interferences identified by the laboratory during analysis:

Acetone in samples FR-011717-IA-03, FR-011717-AA, FR-011717-IA-04, FR-011717-IAD [FR-011717-IA-04], FR-011717-IA-05, FR-011717-IA-06, FR-011717-IA-07, FR-011717-IA-08, FR-011717-IA-09 and FR-011717-IA-10.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

DATA VALIDATION MEMORANDUM

TO:	M Distler	cc:	Eric Alongi – OBG
FROM:	KA Storne		
RE:	Data Usability Summary Report for the Former GE Farrell Road Site VI Sampling – Performed July and August 2017		
FILE:	5851/64466.001.019		
DATE:	October 5, 2017		

This Data Usability Summary Report (DUSR) presents the data validation results for indoor air, ambient air and soil vapor samples collected by O'Brien & Gere in January 2017 for the Lockheed Martin Corporation (LMC) at the Former GE Farrell Road Site.

Alpha Analytical (Alpha) of Mansfield, Massachusetts performed the laboratory analyses for the sampling event. The laboratory package generated by Alpha contained summary forms for quality control analysis and supportive raw data.

The analysis performed for this sampling event is summarized in Table 1 below.

Table 1. Analytical Methods and References

Parameter	Method	Reference
Volatile Organic Compounds (VOCs)	USEPA Method TO-15 Low Level/SIM	1

Note:
1. United States Environmental Protection Agency. 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.
SIM indicates selected ion monitoring.

The samples submitted for review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated for this investigation. Table 4 presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA), 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Cincinnati, Ohio.
- O'Brien & Gere. 2015. *Vapor Intrusion Sampling Work Plan - Revised, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York.* Syracuse, New York (Work Plan).

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 2014. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6*. Albany, New York

Qualifiers were applied to data that failed to meet the quality control criteria presented in the USEPA methods.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records;
- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- Laboratory control sample (LCS) analysis;
- Internal standards performance;
- Field duplicate analysis;
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check;
- Target analyte quantitation, identification, and quanitation limits (QLs); and
- Documentation completeness.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Holding times;
- Blank analysis;
- LCS analysis;
- Internal standards performance;
- Field duplicate analysis;
- GC/MS instrument performance check;

Excursions from method or validation criteria and additional observations are described below.

I. DOCUMENT COMPLETENESS

Supplemental information was requested to complete the validation process.

II. CHAIN-OF-CUSTODY RECORDS AND SAMPLE COLLECTION

For the samples collected 7/27/17, 7/31/17 and 8/1/17, the samples were relinquished 8/2/17 at 17:50 and were received by another party on 8/3/17 at 01:10. During that transfer, although there is a time and date gap, the laboratory indicated that the samples were relinquished to an Alpha courier and were within control of Alpha personnel after that sample transfer.

For the third transfer of the samples, the year was not listed on the record when the samples were relinquished on 8/3/17 at 05:46.

The chain-of-custody record listed only the TO-15 SIM analysis for indoor air and ambient air samples. However the laboratory properly performed and reported both TO-15 SIM and TO-15 Low Level analyses for these samples.

The laboratory indicated that the flow controller identification (1358) listed on the chain-of-custody record was inconsistent with the correct flow controller identification (0109) for sample FR-073117-SS-12.

III. CANISTER EVALUATION

The laboratory evaluated the pre-sampling and post-sampling flow rates of the sample flow controllers, applying an acceptance criterion of 20% RPD. Due to minor flow controller flow rate check excursions, the result for the following samples were qualified as approximate (UJ, J): FR-073117-SS-19, FR-073117-IA-10, FR-072717-IA-06 and FR-080117-SS-05.

A field duplicate for indoor air samples was not collected for this sampling event. Therefore sample collection precision for indoor air samples could not be evaluated.

IV. CALIBRATIONS

The following results were qualified as approximate (UJ, J) due to initial calibration or calibration verification excursions:

- Isopropyl alcohol in samples FR-080117-SS-14, FR-080117-SS-DUP [FR-080117-SS-08], FR-080117-SS-08, FR-080117-SS-05, FR-080117-SS-13, FR-080117-SS-12, FR-080117-SS-16 and FR-080117-SS-15.
- 1,2,4-Trichlorobenzene and hexachlorobutadiene in samples FR-073117-SS-17, FR-080117-SS-06, FR-073117-SS-20, FR-073117-SS-04, FR-073117-SS-22, FR-073117-SS-18, FR-073117-SS-19 and FR-073117-SS-21.

V. TARGET ANALYTE QUANTITATION, IDENTIFICATION AND QLS

The following results were qualified as approximate (UJ) due to an interference identified and reported by the laboratory during analysis:

- Acetone reported as non-detected in samples FR-080117-SS-14, FR-080117-SS-DUP [FR-080117-SS-08], FR-080117-SS-08, FR-080117-SS-13, FR-080117-SS-12 and FR-080117-SS-15.

The following results were qualified as approximate (J) due to an interference identified by the laboratory:

- Acetone reported as detected in samples FR-073117-SS-17, FR-073117-SS-20, FR-073117-SS-22, FR-073117-SS-19, FR-073117-SS-18, FR-072717-IA-10, FR-072717-IA-06, FR-072717-IA-XX, FR-072717-AA, FR-080117-SS-05, FR-072717-IA-04, FR-072717-IA-03, FR-072717-IA-05, FR-072717-IA-07, FR-072717-IA-08 and FR-072717-IA-09.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

DATA VALIDATION MEMORANDUM

TO:	M Distler	cc:	Eric Alongi – OBG
FROM:	KA Storne		
RE:	Data Usability Summary Report for the Former GE Farrell Road Site VI Sampling – Performed October 2017		
FILE:	5851/64466.001.019		
DATE:	January 15, 2018		

This Data Usability Summary Report (DUSR) presents the data validation results for indoor air, ambient air and soil vapor samples collected by O'Brien & Gere in October 2017 for the Lockheed Martin Corporation (LMC) at the Former GE Farrell Road Site.

Alpha Analytical (Alpha) of Mansfield, Massachusetts performed the laboratory analyses for the sampling event. The laboratory package generated by Alpha contained summary forms for quality control analysis and supportive raw data.

The analysis performed for this sampling event is summarized in Table 1 below.

Table 1. Analytical Methods and References

Parameter	Method	Reference
Volatile Organic Compounds (VOCs)	USEPA Method TO-15 Low Level/SIM	1

Note:

1. United States Environmental Protection Agency. 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.
SIM indicates selected ion monitoring.

The samples submitted for review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated for this investigation. Table 4 presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA), 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Cincinnati, Ohio.
- O'Brien & Gere. 2015. *Vapor Intrusion Sampling Work Plan - Revised, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York.* Syracuse, New York (Work Plan).

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 2014. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6*. Albany, New York

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records;
- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- Laboratory control sample (LCS) analysis;
- Internal standards performance;
- Field duplicate analysis;
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check;
- Target analyte quantitation, identification, and quanitation limits (QLs); and
- Documentation completeness.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Sample collection;
- Holding times;
- Calibrations;
- Blank analysis;
- LCS analysis;
- Internal standards performance;
- Field duplicate analysis;
- GC/MS instrument performance check;

Excursions from method or validation criteria and additional observations are described below.

I. DOCUMENT COMPLETENESS

Supplemental information, clarifications and missing laboratory data were requested to complete the validation process.

II. CHAIN-OF-CUSTODY RECORDS AND SAMPLE COLLECTION

The following time gaps were identified on the chain-of-custody records for this sampling event:

- For the samples collected 10/10/17 and 10/13/17, the samples were initially relinquished 10/16/17 at 12:42 and were received by the next party on 10/16/17 at 19:30.
- For the second transfer of the samples, the samples were relinquished 10/16/17 at 19:30 and were received by the next party on 10/17/17 at 00:55.

After the initial transfer from the field representative, samples are typically relinquished to an Alpha courier and are within control of Alpha personnel.

III. CANISTER EVALUATION

The laboratory evaluated the pre-sampling and post-sampling flow rates of the sample flow controllers, applying an acceptance criterion of 20% RPD. Due to minor flow controller flow rate check excursions, the result for the following samples were qualified as approximate (UJ, J): FR-101017-IA-08 and FR-101317-SS-29.

A field duplicate for indoor air samples was not collected for this sampling event. Therefore sample collection precision for indoor air samples could not be evaluated. As required for this project, a soil vapor field duplicate was collected and reported.

IV. TARGET ANALYTE QUANTITATION, IDENTIFICATION AND QLS

The following result was qualified as approximate (J) due to an interference identified by the laboratory:

- Acetone reported as detected in sample FR-101317-SS-23.

Dilutions were performed for samples due to high concentrations of target analytes. As a result of the dilutions, reported detection limits were elevated.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.

DATA VALIDATION MEMORANDUM

TO:	M Distler	cc:	EM Alongi – OBG
FROM:	KA Storne		
RE:	Data Usability Summary Report for the Former GE Farrell Road Site VI Sampling – Performed June 2018		
FILE:	5851/64466.001.019		
DATE:	August 29, 2018		

This Data Usability Summary Report (DUSR) presents the data validation results for soil vapor samples collected by O'Brien & Gere in June 2018 for the Lockheed Martin Corporation (LMC) at the Former GE Farrell Road Site.

Alpha Analytical (Alpha) of Mansfield, Massachusetts performed the laboratory analyses for the sampling event. The laboratory package generated by Alpha contained summary forms for quality control analysis and supportive raw data.

The analysis performed for this sampling event is summarized in Table 1 below.

Table 1. ***Analytical Methods and References***

Parameter	Method	Reference
Volatile Organic Compounds (VOCs)	USEPA Method TO-15	1

Note:

1. United States Environmental Protection Agency. 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Cincinnati, Ohio.

VOCs indicates volatile organic compounds.

The samples submitted for review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated for this investigation. Table 4 presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) information presented in the following documents:

- United States Environmental Protection Agency (USEPA), 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*. Cincinnati, Ohio.
- O'Brien & Gere. 2015. *Vapor Intrusion Sampling Work Plan - Revised, Former GE Farrell Road Site. Site # 7-34-055. Geddes, New York.* Syracuse, New York (Work Plan).

Data affected by excursions from the previously mentioned QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 2014. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP HW-31, Revision 6*. Albany, New York

Qualifiers are applied to data that fail to meet the quality control criteria presented in the USEPA methods.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in data validation:

"U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

"J" Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.

"UJ" Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.

"R" Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records;
- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- Laboratory control sample (LCS) analysis;
- Internal standards performance;
- Field duplicate analysis;
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check;
- Target analyte quantitation, identification, and quanitation limits (QLs); and
- Documentation completeness.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Sample collection;
- Canister evaluation;
- Holding times;
- Calibrations;
- Blank analysis;
- LCS analysis;
- Internal standards performance;
- Field duplicate analysis;
- GC/MS instrument performance check.

Excursions from method or validation criteria and additional observations are described below.

I. DOCUMENT COMPLETENESS

Supplemental information and clarifications were requested during data validation to complete the validation process.

II. CHAIN-OF-CUSTODY RECORDS

For the samples collected 6/19/18 to 6/20/18, the laboratory provided the following clarification for the chain-of-custody records since the records were inconsistent and some entries were illegible:

- During the second transfer, samples were relinquished 6/22/18 at 11:45 and received 6/23/18 at 01:20. During the second transfer, although there is a time and date gap, the laboratory indicated that the samples were relinquished to an Alpha courier and were within control of Alpha personnel after that sample transfer. During the third transfer, samples were relinquished 6/23/18 at 05:50 and received 6/23/18 at 05:50.

III. TARGET ANALYTE QUANTITATION, IDENTIFICATION AND QLS

The following results were qualified as approximate (UJ) due to an interference identified by the laboratory:

- Acetone reported as non-detected in samples FR-061918-SS-08 and FR-061918-SSD-08 [FR-061918-SS-08].

Dilutions were performed for samples due to high concentrations of target analytes. As a result of the dilutions, reported detection limits were elevated.

DATA USABILITY

Overall data usability with respect to completeness for the sample results reported is 100 percent for the VOC air data. The VOC air data were identified as usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L1604824
Client:	O'Brien and Gere
	333 W. Washington Street
	Syracuse, NY 13221
ATTN:	Eric Alongi
Phone:	(315) 956-6674
Project Name:	LOCKHEED MARTIN
Project Number:	50238
Report Date:	03/01/16

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1604824-01	FR-IA01-021916	AIR	SYRACUSE, NY	02/19/16 15:04	02/22/16
L1604824-02	FR-SS01-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 15:04	02/22/16
L1604824-03	FR-AA01-021916	AIR	SYRACUSE, NY	02/19/16 16:46	02/22/16
L1604824-04	FR-IA02-021916	AIR	SYRACUSE, NY	02/19/16 15:14	02/22/16
L1604824-05	FR-SS02-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 15:14	02/22/16
L1604824-06	FR-IA03-021916	AIR	SYRACUSE, NY	02/19/16 16:30	02/22/16
L1604824-07	FR-SS03-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:30	02/22/16
L1604824-08	FR-IA04-021916	AIR	SYRACUSE, NY	02/19/16 16:41	02/22/16
L1604824-09	FR-SS04-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:41	02/22/16
L1604824-10	FR-DUP-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:41	02/22/16
L1604824-11	FR-IA05-021916	AIR	SYRACUSE, NY	02/19/16 16:18	02/22/16
L1604824-12	FR-SS05-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:18	02/22/16
L1604824-13	FR-IA06-021916	AIR	SYRACUSE, NY	02/19/16 16:21	02/22/16
L1604824-14	FR-SS06-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:21	02/22/16
L1604824-15	FR-IA07-021916	AIR	SYRACUSE, NY	02/19/16 16:26	02/22/16
L1604824-16	FR-SS07-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:26	02/22/16
L1604824-17	FR-IA08-021916	AIR	SYRACUSE, NY	02/19/16 16:04	02/22/16
L1604824-18	FR-SS08-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:04	02/22/16
L1604824-19	FR-IA09-021916	AIR	SYRACUSE, NY	02/19/16 16:00	02/22/16
L1604824-20	FR-SS09-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 16:00	02/22/16
L1604824-21	FR-IA10-021916	AIR	SYRACUSE, NY	02/19/16 15:41	02/22/16
L1604824-22	FR-SS10-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 15:41	02/22/16
L1604824-23	FR-IA11-021916	AIR	SYRACUSE, NY	02/19/16 15:25	02/22/16
L1604824-24	FR-SS11-021916	SOIL_VAPOR	SYRACUSE, NY	02/19/16 15:25	02/22/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1604824-25	UNUSED CAN #927	AIR	SYRACUSE, NY		02/22/16

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Case Narrative

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

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

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: LOCKHEED MARTIN **Lab Number:** L1604824
Project Number: 50238 **Report Date:** 03/01/16

Case Narrative (continued)

Volatile Organics in Air
Canisters were released from the laboratory on February 18, 2016. The canister certification results are provided as an addendum.

Samples L1604824-01, -04, -06, -08, -11, -13, -15, -17, -19, -21, -23 and WG869392-5 Duplicate The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

Samples L1604824-01, -04, -23 and WG869392-5 Duplicate The presence of Isopropyl alcohol could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

Sample L1604824-05: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Samples L1604824-05 and -18 The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

Samples L1604824-14, -18, and WG869138-5: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Samples L1604824-20 and -24 results for Acetone should be considered estimated due to co-elution with a non-target peak.

The WG869392-3 LCS recovery for 1,2,4-Trichlorobenzene (144%) and Hexachlorobutadiene (144%) is above the upper 130% acceptance limit. The response for these compounds was elevated however they were not detected in any of the associated samples therefore no further action was required.

Project Name: LOCKHEED MARTIN **Lab Number:** L1604824
Project Number: 50238 **Report Date:** 03/01/16

Case Narrative (continued)

Sample Receipt

The sample designated FR-IA01-021916 (L1604824-01) had a RPD for the pre- and post-flow controller calibration check (24% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 10.0 mL/minute; the final flow rate was 12.7 mL/minute. The final pressure recorded by the laboratory of the associated canister was -0.8 inches of mercury. No further action was required.

The sample designated FR-IA04-021916 (L1604824-08) had a RPD for the pre- and post-flow controller calibration check (41% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 10.0 mL/minute; the final flow rate was 6.6 mL/minute. The final pressure recorded by the laboratory of the associated canister was -14.4 inches of mercury. No further action was required.

The sample designated FR-SS04-021916 (L1604824-09) had a RPD for the pre- and post-flow controller calibration check (90% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 9.7 mL/minute; the final flow rate was 3.7 mL/minute. The final pressure recorded by the laboratory of the associated canister was -5.8 inches of mercury. No further action was required.

The sample designated FR-IA05-021916 (L1604824-11) had a RPD for the pre- and post-flow controller calibration check (38% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 10.0 mL/minute; the final flow rate was 6.8 mL/minute. The final pressure recorded by the laboratory of the associated canister was -11.3 inches of mercury. No further action was required.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 03/01/16

AIR

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-01
Client ID: FR-IA01-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 00:22
Analyst: MB

Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.446	0.200	--	2.21	0.989	--		1
Chloromethane	0.429	0.200	--	0.886	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	41.0	5.00	--	77.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.260	0.200	--	1.46	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-01
Client ID: FR-IA01-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.15	0.200	--	7.58	0.705	--		1
Benzene	1.55	0.200	--	4.95	0.639	--		1
Cyclohexane	0.697	0.200	--	2.40	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.80	0.200	--	8.41	0.934	--		1
Heptane	1.01	0.200	--	4.14	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	12.4	0.200	--	46.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.44	0.200	--	10.6	0.869	--		1
p/m-Xylene	9.94	0.400	--	43.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.67	0.200	--	15.9	0.869	--		1
4-Ethyltoluene	0.967	0.200	--	4.75	0.983	--		1
1,3,5-Trimethylbenzene	1.00	0.200	--	4.92	0.983	--		1
1,2,4-Trimethylbenzene	3.98	0.200	--	19.6	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-01
Client ID: FR-IA01-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-01
Client ID: FR-IA01-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 00:22
Analyst: MB

Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	107		60-140
chlorobenzene-d5	93		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-02
Client ID: FR-SS01-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/29/16 21:52
Analyst: AR

Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.215	0.200	--	1.06	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.70	1.00	--	23.0	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.15	0.500	--	2.83	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	3.68	0.500	--	12.8	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.429	0.200	--	1.34	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.731	0.500	--	2.16	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-02
Client ID: FR-SS01-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	1.26	0.200	--	6.15	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.22	0.200	--	4.30	0.705	--		1
1,1,1-Trichloroethane	0.711	0.200	--	3.88	1.09	--		1
Benzene	0.898	0.200	--	2.87	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.782	0.200	--	2.69	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.237	0.200	--	1.27	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.992	0.200	--	4.07	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.24	0.200	--	16.0	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.376	0.200	--	2.55	1.36	--		1
Chlorobenzene	24.2	0.200	--	111	0.921	--		1
Ethylbenzene	0.390	0.200	--	1.69	0.869	--		1
p/m-Xylene	1.72	0.400	--	7.47	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-02
Client ID: FR-SS01-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:04
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.683	0.200	--	2.97	0.869	--		1
4-Ethyltoluene	0.494	0.200	--	2.43	0.983	--		1
1,3,5-Trimethylbenzene	0.537	0.200	--	2.64	0.983	--		1
1,2,4-Trimethylbenzene	1.88	0.200	--	9.24	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	1.38	0.200	--	8.30	1.20	--		1
1,2-Dichlorobenzene	0.904	0.200	--	5.44	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	107		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-03
Client ID: FR-AA01-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 01:27
Analyst: MB

Date Collected: 02/19/16 16:46
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.522	0.200	--	2.58	0.989	--		1
Chloromethane	0.502	0.200	--	1.04	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.35	1.00	--	3.21	2.38	--		1
Trichlorofluoromethane	0.314	0.200	--	1.76	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-03
Client ID: FR-AA01-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:46
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.372	0.200	--	1.40	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-03
Client ID: FR-AA01-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:46
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-03
Client ID: FR-AA01-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 01:27
Analyst: MB

Date Collected: 02/19/16 16:46
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	89		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-04
Client ID: FR-IA02-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 01:59
Analyst: MB

Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.467	0.200	--	2.31	0.989	--		1
Chloromethane	0.476	0.200	--	0.983	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	147	5.00	--	277	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-04
Client ID: FR-IA02-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.87	0.200	--	10.1	0.705	--		1
Benzene	1.65	0.200	--	5.27	0.639	--		1
Cyclohexane	1.11	0.200	--	3.82	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.56	0.200	--	7.29	0.934	--		1
Heptane	1.64	0.200	--	6.72	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	12.7	0.200	--	47.9	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.73	0.200	--	16.2	0.869	--		1
p/m-Xylene	13.3	0.400	--	57.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.64	0.200	--	24.5	0.869	--		1
4-Ethyltoluene	1.36	0.200	--	6.69	0.983	--		1
1,3,5-Trimethylbenzene	1.12	0.200	--	5.51	0.983	--		1
1,2,4-Trimethylbenzene	3.32	0.200	--	16.3	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-04
Client ID: FR-IA02-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	101		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-04
Client ID: FR-IA02-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 01:59
Analyst: MB

Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.086	0.020	--	0.541	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	95		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-05 D
Client ID: FR-SS02-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/29/16 22:25
Analyst: AR

Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.400	--	ND	1.98	--		2
Chloromethane	0.836	0.400	--	1.73	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	19.4	10.0	--	36.6	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	ND	2.00	--	ND	4.75	--		2
Trichlorofluoromethane	0.632	0.400	--	3.55	2.25	--		2
Isopropanol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	3.35	1.00	--	11.6	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	0.590	0.400	--	1.84	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	2.41	1.00	--	7.11	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-05 D
Client ID: FR-SS02-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	6.75	0.400	--	23.8	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	4.80	0.400	--	15.3	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	5.59	0.400	--	19.2	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	3.54	0.400	--	19.0	2.15	--		2
2,2,4-Trimethylpentane	3.43	0.400	--	16.0	1.87	--		2
Heptane	5.38	0.400	--	22.0	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	34.3	0.400	--	129	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	19.3	0.400	--	88.9	1.84	--		2
Ethylbenzene	5.70	0.400	--	24.8	1.74	--		2
p/m-Xylene	21.4	0.800	--	93.0	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-05 D
Client ID: FR-SS02-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:14
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	7.55	0.400	--	32.8	1.74	--		2
4-Ethyltoluene	1.31	0.400	--	6.44	1.97	--		2
1,3,5-Trimethylbenzene	1.45	0.400	--	7.13	1.97	--		2
1,2,4-Trimethylbenzene	4.59	0.400	--	22.6	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	2.08	0.400	--	12.5	2.40	--		2
1,2-Dichlorobenzene	1.46	0.400	--	8.78	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	99		60-140
Bromochloromethane	113		60-140
chlorobenzene-d5	108		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-06
Client ID: FR-IA03-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 02:31
Analyst: MB

Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.547	0.200	--	2.70	0.989	--		1
Chloromethane	0.501	0.200	--	1.03	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.4	5.00	--	23.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	16.6	0.200	--	93.3	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.251	0.200	--	1.02	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.960	0.500	--	2.83	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-06
Client ID: FR-IA03-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	4.00	0.200	--	14.1	0.705	--		1
Benzene	3.61	0.200	--	11.5	0.639	--		1
Cyclohexane	0.973	0.200	--	3.35	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.10	0.200	--	9.81	0.934	--		1
Heptane	1.38	0.200	--	5.66	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	25.9	0.200	--	97.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.46	0.200	--	10.7	0.869	--		1
p/m-Xylene	10.6	0.400	--	46.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.28	0.200	--	14.2	0.869	--		1
4-Ethyltoluene	0.425	0.200	--	2.09	0.983	--		1
1,3,5-Trimethylbenzene	0.312	0.200	--	1.53	0.983	--		1
1,2,4-Trimethylbenzene	1.13	0.200	--	5.56	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-06
Client ID: FR-IA03-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-06
Client ID: FR-IA03-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 02:31
Analyst: MB

Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.17	0.020	--	4.64	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.211	0.020	--	1.15	0.109	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Trichloroethene	0.027	0.020	--	0.145	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	92		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-07
Client ID: FR-SS03-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/29/16 22:56
Analyst: AR

Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.325	0.200	--	1.61	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.03	1.00	--	2.45	2.38	--		1
Trichlorofluoromethane	0.603	0.200	--	3.39	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-07
Client ID: FR-SS03-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	2.25	0.200	--	12.3	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.684	0.200	--	2.58	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-07
Client ID: FR-SS03-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:30
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	92		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-08
Client ID: FR-IA04-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 03:03
Analyst: MB

Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.359	0.200	--	1.78	0.989	--		1
Chloromethane	0.492	0.200	--	1.02	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.60	5.00	--	12.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	9.94	0.200	--	55.9	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.641	0.500	--	1.89	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-08
Client ID: FR-IA04-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.18	0.200	--	7.68	0.705	--		1
Benzene	1.90	0.200	--	6.07	0.639	--		1
Cyclohexane	0.286	0.200	--	0.984	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.08	0.200	--	5.04	0.934	--		1
Heptane	0.788	0.200	--	3.23	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	12.0	0.200	--	45.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.17	0.200	--	5.08	0.869	--		1
p/m-Xylene	5.16	0.400	--	22.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.53	0.200	--	6.65	0.869	--		1
4-Ethyltoluene	0.229	0.200	--	1.13	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.756	0.200	--	3.72	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-08
Client ID: FR-IA04-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	73		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	90		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-08
Client ID: FR-IA04-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 03:03
Analyst: MB

Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.601	0.020	--	2.38	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.131	0.020	--	0.715	0.109	--		1
Carbon tetrachloride	0.100	0.020	--	0.629	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	71		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	86		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-09
Client ID: FR-SS04-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/29/16 23:28
Analyst: AR

Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.861	0.200	--	4.26	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	11.0	0.200	--	61.8	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	3.65	0.200	--	14.5	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-09
Client ID: FR-SS04-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	4.37	0.200	--	21.3	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	4.39	0.200	--	24.0	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.353	0.200	--	2.36	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	26.2	0.200	--	141	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.423	0.200	--	1.59	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.247	0.200	--	1.67	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-09
Client ID: FR-SS04-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	91		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-10
Client ID: FR-DUP-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/29/16 23:59
Analyst: AR

Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.940	0.200	--	4.65	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.16	1.00	--	2.76	2.38	--		1
Trichlorofluoromethane	10.9	0.200	--	61.3	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	3.46	0.200	--	13.7	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-10
Client ID: FR-DUP-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	4.34	0.200	--	21.2	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	4.28	0.200	--	23.4	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.364	0.200	--	1.25	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.385	0.200	--	2.58	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	25.9	0.200	--	139	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.536	0.200	--	2.02	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.281	0.200	--	1.91	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-10
Client ID: FR-DUP-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	106		60-140
chlorobenzene-d5	87		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-11
Client ID: FR-IA05-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 03:35
Analyst: MB

Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.396	0.200	--	1.96	0.989	--		1
Chloromethane	0.460	0.200	--	0.950	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	2.58	0.200	--	14.5	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-11
Client ID: FR-IA05-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.419	0.200	--	1.48	0.705	--		1
Benzene	0.536	0.200	--	1.71	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.232	0.200	--	1.08	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.80	0.200	--	10.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.297	0.200	--	1.29	0.869	--		1
p/m-Xylene	1.23	0.400	--	5.34	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.378	0.200	--	1.64	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-11
Client ID: FR-IA05-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	75		60-140
Bromochloromethane	79		60-140
chlorobenzene-d5	88		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-11
Client ID: FR-IA05-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 03:35
Analyst: MB

Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.078	0.020	--	0.309	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.028	0.020	--	0.153	0.109	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	73		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-12
Client ID: FR-SS05-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 06:58
Analyst: AR

Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.11	1.00	--	2.64	2.38	--		1
Trichlorofluoromethane	70.8	0.200	--	398	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	0.742	0.200	--	2.94	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-12
Client ID: FR-SS05-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.217	0.200	--	1.06	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	3.11	0.200	--	17.0	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.445	0.200	--	1.53	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.773	0.200	--	2.91	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-12
Client ID: FR-SS05-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:18
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	88		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-13
Client ID: FR-IA06-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 04:07
Analyst: MB

Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.457	0.200	--	2.26	0.989	--		1
Chloromethane	0.551	0.200	--	1.14	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	16.6	5.00	--	31.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	15.3	0.200	--	86.0	1.12	--		1
Isopropanol	0.744	0.500	--	1.83	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.55	0.500	--	5.38	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.395	0.200	--	1.60	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.796	0.500	--	2.35	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-13
Client ID: FR-IA06-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	5.30	0.200	--	18.7	0.705	--		1
Benzene	4.23	0.200	--	13.5	0.639	--		1
Cyclohexane	0.799	0.200	--	2.75	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.66	0.200	--	12.4	0.934	--		1
Heptane	1.64	0.200	--	6.72	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	29.2	0.200	--	110	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.03	0.200	--	13.2	0.869	--		1
p/m-Xylene	12.8	0.400	--	55.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.95	0.200	--	17.2	0.869	--		1
4-Ethyltoluene	0.663	0.200	--	3.26	0.983	--		1
1,3,5-Trimethylbenzene	0.481	0.200	--	2.36	0.983	--		1
1,2,4-Trimethylbenzene	1.85	0.200	--	9.09	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-13
Client ID: FR-IA06-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	91		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-13
Client ID: FR-IA06-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 04:07
Analyst: MB

Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	2.04	0.020	--	8.09	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.276	0.020	--	1.51	0.109	--		1
Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--		1
Trichloroethene	0.031	0.020	--	0.167	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	88		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-14 D
Client ID: FR-SS06-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 01:03
Analyst: AR

Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	22.9	--	ND	113	--		114.6
Chloromethane	ND	22.9	--	ND	47.3	--		114.6
Freon-114	ND	22.9	--	ND	160	--		114.6
Vinyl chloride	ND	22.9	--	ND	58.5	--		114.6
1,3-Butadiene	ND	22.9	--	ND	50.7	--		114.6
Bromomethane	ND	22.9	--	ND	88.9	--		114.6
Chloroethane	ND	22.9	--	ND	60.4	--		114.6
Ethanol	ND	573.	--	ND	1080	--		114.6
Vinyl bromide	ND	22.9	--	ND	100	--		114.6
Acetone	ND	115	--	ND	273	--		114.6
Trichlorofluoromethane	28.0	22.9	--	157	129	--		114.6
Isopropanol	ND	57.3	--	ND	141	--		114.6
1,1-Dichloroethene	5650	22.9	--	22400	90.8	--		114.6
Tertiary butyl Alcohol	ND	57.3	--	ND	174	--		114.6
Methylene chloride	ND	57.3	--	ND	199	--		114.6
3-Chloropropene	ND	22.9	--	ND	71.7	--		114.6
Carbon disulfide	ND	22.9	--	ND	71.3	--		114.6
Freon-113	ND	22.9	--	ND	176	--		114.6
trans-1,2-Dichloroethene	ND	22.9	--	ND	90.8	--		114.6
1,1-Dichloroethane	1190	22.9	--	4820	92.7	--		114.6
Methyl tert butyl ether	ND	22.9	--	ND	82.6	--		114.6
2-Butanone	ND	57.3	--	ND	169	--		114.6
cis-1,2-Dichloroethene	ND	22.9	--	ND	90.8	--		114.6
Ethyl Acetate	ND	57.3	--	ND	206	--		114.6

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-14 D
Client ID: FR-SS06-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	22.9	--	ND	112	--		114.6
Tetrahydrofuran	ND	57.3	--	ND	169	--		114.6
1,2-Dichloroethane	ND	22.9	--	ND	92.7	--		114.6
n-Hexane	ND	22.9	--	ND	80.7	--		114.6
1,1,1-Trichloroethane	ND	22.9	--	ND	125	--		114.6
Benzene	ND	22.9	--	ND	73.2	--		114.6
Carbon tetrachloride	ND	22.9	--	ND	144	--		114.6
Cyclohexane	ND	22.9	--	ND	78.8	--		114.6
1,2-Dichloropropane	ND	22.9	--	ND	106	--		114.6
Bromodichloromethane	ND	22.9	--	ND	153	--		114.6
1,4-Dioxane	ND	22.9	--	ND	82.5	--		114.6
Trichloroethene	72.1	22.9	--	387	123	--		114.6
2,2,4-Trimethylpentane	43.4	22.9	--	203	107	--		114.6
Heptane	ND	22.9	--	ND	93.8	--		114.6
cis-1,3-Dichloropropene	ND	22.9	--	ND	104	--		114.6
4-Methyl-2-pentanone	ND	57.3	--	ND	235	--		114.6
trans-1,3-Dichloropropene	ND	22.9	--	ND	104	--		114.6
1,1,2-Trichloroethane	ND	22.9	--	ND	125	--		114.6
Toluene	ND	22.9	--	ND	86.3	--		114.6
2-Hexanone	ND	22.9	--	ND	93.8	--		114.6
Dibromochloromethane	ND	22.9	--	ND	195	--		114.6
1,2-Dibromoethane	ND	22.9	--	ND	176	--		114.6
Tetrachloroethene	ND	22.9	--	ND	155	--		114.6
Chlorobenzene	ND	22.9	--	ND	105	--		114.6
Ethylbenzene	ND	22.9	--	ND	99.5	--		114.6
p/m-Xylene	ND	45.8	--	ND	199	--		114.6
Bromoform	ND	22.9	--	ND	237	--		114.6
Styrene	ND	22.9	--	ND	97.5	--		114.6

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-14 D
Client ID: FR-SS06-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:21
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	22.9	--	ND	157	--		114.6
o-Xylene	ND	22.9	--	ND	99.5	--		114.6
4-Ethyltoluene	ND	22.9	--	ND	113	--		114.6
1,3,5-Trimethylbenzene	ND	22.9	--	ND	113	--		114.6
1,2,4-Trimethylbenzene	ND	22.9	--	ND	113	--		114.6
Benzyl chloride	ND	22.9	--	ND	119	--		114.6
1,3-Dichlorobenzene	ND	22.9	--	ND	138	--		114.6
1,4-Dichlorobenzene	ND	22.9	--	ND	138	--		114.6
1,2-Dichlorobenzene	ND	22.9	--	ND	138	--		114.6
1,2,4-Trichlorobenzene	ND	22.9	--	ND	170	--		114.6
Hexachlorobutadiene	ND	22.9	--	ND	244	--		114.6

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-15
Client ID: FR-IA07-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 04:39
Analyst: MB

Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.346	0.200	--	1.71	0.989	--		1
Chloromethane	0.487	0.200	--	1.01	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	19.4	5.00	--	36.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	17.1	0.200	--	96.1	1.12	--		1
Isopropanol	0.534	0.500	--	1.31	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.483	0.200	--	1.95	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.836	0.500	--	2.47	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-15
Client ID: FR-IA07-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	6.74	0.200	--	23.8	0.705	--		1
Benzene	6.16	0.200	--	19.7	0.639	--		1
Cyclohexane	1.04	0.200	--	3.58	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	3.63	0.200	--	17.0	0.934	--		1
Heptane	2.33	0.200	--	9.55	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	39.9	0.200	--	150	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	4.31	0.200	--	18.7	0.869	--		1
p/m-Xylene	17.8	0.400	--	77.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.56	0.200	--	24.2	0.869	--		1
4-Ethyltoluene	0.903	0.200	--	4.44	0.983	--		1
1,3,5-Trimethylbenzene	0.702	0.200	--	3.45	0.983	--		1
1,2,4-Trimethylbenzene	2.75	0.200	--	13.5	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-15
Client ID: FR-IA07-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	96		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-15
Client ID: FR-IA07-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 04:39
Analyst: MB

Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	2.32	0.020	--	9.20	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.379	0.020	--	2.07	0.109	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Trichloroethene	0.032	0.020	--	0.172	0.107	--		1
Tetrachloroethene	0.020	0.020	--	0.136	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	91		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-16
Client ID: FR-SS07-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 02:05
Analyst: AR

Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	6.01	0.200	--	33.8	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-16
Client ID: FR-SS07-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	3.90	0.200	--	21.3	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.889	0.200	--	3.35	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-16
Client ID: FR-SS07-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:26
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	86		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-17
Client ID: FR-IA08-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 05:11
Analyst: MB

Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.549	0.200	--	2.71	0.989	--		1
Chloromethane	0.676	0.200	--	1.40	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	22.7	5.00	--	42.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	22.0	0.200	--	124	1.12	--		1
Isopropanol	0.763	0.500	--	1.88	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.721	0.200	--	2.92	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.23	0.500	--	3.63	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-17
Client ID: FR-IA08-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	6.32	0.200	--	22.3	0.705	--		1
Benzene	5.96	0.200	--	19.0	0.639	--		1
Cyclohexane	0.988	0.200	--	3.40	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	3.44	0.200	--	16.1	0.934	--		1
Heptane	2.26	0.200	--	9.26	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	40.6	0.200	--	153	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	4.40	0.200	--	19.1	0.869	--		1
p/m-Xylene	18.4	0.400	--	79.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.75	0.200	--	25.0	0.869	--		1
4-Ethyltoluene	0.922	0.200	--	4.53	0.983	--		1
1,3,5-Trimethylbenzene	0.710	0.200	--	3.49	0.983	--		1
1,2,4-Trimethylbenzene	2.81	0.200	--	13.8	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-17
Client ID: FR-IA08-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	73		60-140
chlorobenzene-d5	93		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-17
Client ID: FR-IA08-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 05:11
Analyst: MB

Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	3.12	0.020	--	12.4	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.795	0.020	--	4.34	0.109	--		1
Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--		1
Trichloroethene	0.026	0.020	--	0.140	0.107	--		1
Tetrachloroethene	0.023	0.020	--	0.156	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	82		60-140
chlorobenzene-d5	89		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-18 D
Client ID: FR-SS08-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 02:37
Analyst: AR

Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	3.98	--	ND	19.7	--		19.91
Chloromethane	ND	3.98	--	ND	8.22	--		19.91
Freon-114	ND	3.98	--	ND	27.8	--		19.91
Vinyl chloride	ND	3.98	--	ND	10.2	--		19.91
1,3-Butadiene	ND	3.98	--	ND	8.80	--		19.91
Bromomethane	ND	3.98	--	ND	15.5	--		19.91
Chloroethane	157	3.98	--	414	10.5	--		19.91
Ethanol	ND	99.6	--	ND	188	--		19.91
Vinyl bromide	ND	3.98	--	ND	17.4	--		19.91
Acetone	ND	19.9	--	ND	47.3	--		19.91
Trichlorofluoromethane	21.2	3.98	--	119	22.4	--		19.91
Isopropanol	ND	9.96	--	ND	24.5	--		19.91
1,1-Dichloroethene	1660	3.98	--	6580	15.8	--		19.91
Tertiary butyl Alcohol	ND	9.96	--	ND	30.2	--		19.91
Methylene chloride	ND	9.96	--	ND	34.6	--		19.91
3-Chloropropene	ND	3.98	--	ND	12.5	--		19.91
Carbon disulfide	ND	3.98	--	ND	12.4	--		19.91
Freon-113	ND	3.98	--	ND	30.5	--		19.91
trans-1,2-Dichloroethene	ND	3.98	--	ND	15.8	--		19.91
1,1-Dichloroethane	692	3.98	--	2800	16.1	--		19.91
Methyl tert butyl ether	ND	3.98	--	ND	14.3	--		19.91
2-Butanone	ND	9.96	--	ND	29.4	--		19.91
cis-1,2-Dichloroethene	ND	3.98	--	ND	15.8	--		19.91
Ethyl Acetate	ND	9.96	--	ND	35.9	--		19.91

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-18 D
Client ID: FR-SS08-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	3.98	--	ND	19.4	--		19.91
Tetrahydrofuran	ND	9.96	--	ND	29.4	--		19.91
1,2-Dichloroethane	ND	3.98	--	ND	16.1	--		19.91
n-Hexane	ND	3.98	--	ND	14.0	--		19.91
1,1,1-Trichloroethane	1400	3.98	--	7640	21.7	--		19.91
Benzene	ND	3.98	--	ND	12.7	--		19.91
Carbon tetrachloride	ND	3.98	--	ND	25.0	--		19.91
Cyclohexane	ND	3.98	--	ND	13.7	--		19.91
1,2-Dichloropropane	ND	3.98	--	ND	18.4	--		19.91
Bromodichloromethane	ND	3.98	--	ND	26.7	--		19.91
1,4-Dioxane	ND	3.98	--	ND	14.3	--		19.91
Trichloroethene	ND	3.98	--	ND	21.4	--		19.91
2,2,4-Trimethylpentane	ND	3.98	--	ND	18.6	--		19.91
Heptane	ND	3.98	--	ND	16.3	--		19.91
cis-1,3-Dichloropropene	ND	3.98	--	ND	18.1	--		19.91
4-Methyl-2-pentanone	ND	9.96	--	ND	40.8	--		19.91
trans-1,3-Dichloropropene	ND	3.98	--	ND	18.1	--		19.91
1,1,2-Trichloroethane	ND	3.98	--	ND	21.7	--		19.91
Toluene	ND	3.98	--	ND	15.0	--		19.91
2-Hexanone	ND	3.98	--	ND	16.3	--		19.91
Dibromochloromethane	ND	3.98	--	ND	33.9	--		19.91
1,2-Dibromoethane	ND	3.98	--	ND	30.6	--		19.91
Tetrachloroethene	ND	3.98	--	ND	27.0	--		19.91
Chlorobenzene	ND	3.98	--	ND	18.3	--		19.91
Ethylbenzene	ND	3.98	--	ND	17.3	--		19.91
p/m-Xylene	ND	7.96	--	ND	34.6	--		19.91
Bromoform	ND	3.98	--	ND	41.2	--		19.91
Styrene	ND	3.98	--	ND	16.9	--		19.91

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-18 D
Client ID: FR-SS08-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:04
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	3.98	--	ND	27.3	--		19.91
o-Xylene	ND	3.98	--	ND	17.3	--		19.91
4-Ethyltoluene	ND	3.98	--	ND	19.6	--		19.91
1,3,5-Trimethylbenzene	ND	3.98	--	ND	19.6	--		19.91
1,2,4-Trimethylbenzene	ND	3.98	--	ND	19.6	--		19.91
Benzyl chloride	ND	3.98	--	ND	20.6	--		19.91
1,3-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.91
1,4-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.91
1,2-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.91
1,2,4-Trichlorobenzene	ND	3.98	--	ND	29.5	--		19.91
Hexachlorobutadiene	ND	3.98	--	ND	42.5	--		19.91

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-19
Client ID: FR-IA09-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 05:43
Analyst: MB

Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.823	0.200	--	4.07	0.989	--		1
Chloromethane	0.487	0.200	--	1.01	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	15.3	5.00	--	28.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	19.3	0.200	--	108	1.12	--		1
Isopropanol	1.03	0.500	--	2.53	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.374	0.200	--	1.51	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.886	0.500	--	2.61	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-19
Client ID: FR-IA09-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	4.83	0.200	--	17.0	0.705	--		1
Benzene	4.68	0.200	--	15.0	0.639	--		1
Cyclohexane	1.22	0.200	--	4.20	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.58	0.200	--	12.1	0.934	--		1
Heptane	1.84	0.200	--	7.54	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	33.8	0.200	--	127	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.60	0.200	--	15.6	0.869	--		1
p/m-Xylene	14.9	0.400	--	64.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	4.59	0.200	--	19.9	0.869	--		1
4-Ethyltoluene	0.675	0.200	--	3.32	0.983	--		1
1,3,5-Trimethylbenzene	0.541	0.200	--	2.66	0.983	--		1
1,2,4-Trimethylbenzene	2.09	0.200	--	10.3	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-19
Client ID: FR-IA09-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	94		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-19
Client ID: FR-IA09-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 05:43
Analyst: MB

Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.82	0.020	--	7.22	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.661	0.020	--	3.61	0.109	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Trichloroethene	0.025	0.020	--	0.134	0.107	--		1
Tetrachloroethene	0.028	0.020	--	0.190	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-20
Client ID: FR-SS09-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 03:08
Analyst: AR

Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.287	0.200	--	1.42	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	13.9	5.00	--	26.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.24	1.00	--	7.70	2.38	--		1
Trichlorofluoromethane	17.2	0.200	--	96.7	1.12	--		1
Isopropanol	0.840	0.500	--	2.06	1.23	--		1
1,1-Dichloroethene	0.910	0.200	--	3.61	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	1.12	0.200	--	4.53	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-20
Client ID: FR-SS09-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	14.1	0.200	--	76.9	1.09	--		1
Benzene	0.204	0.200	--	0.652	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.731	0.200	--	2.52	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.91	0.200	--	10.3	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.34	0.200	--	5.05	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.584	0.400	--	2.54	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-20
Client ID: FR-SS09-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 16:00
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.221	0.200	--	0.960	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-21
Client ID: FR-IA10-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 06:15
Analyst: MB

Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.571	0.200	--	2.82	0.989	--		1
Chloromethane	0.492	0.200	--	1.02	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	14.9	5.00	--	28.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	13.4	0.200	--	75.3	1.12	--		1
Isopropanol	0.971	0.500	--	2.39	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.231	0.200	--	0.935	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.841	0.500	--	2.48	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-21
Client ID: FR-IA10-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	3.87	0.200	--	13.6	0.705	--		1
Benzene	3.96	0.200	--	12.7	0.639	--		1
Cyclohexane	0.594	0.200	--	2.04	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.13	0.200	--	9.95	0.934	--		1
Heptane	1.42	0.200	--	5.82	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	27.8	0.200	--	105	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.91	0.200	--	12.6	0.869	--		1
p/m-Xylene	12.6	0.400	--	54.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.82	0.200	--	16.6	0.869	--		1
4-Ethyltoluene	0.629	0.200	--	3.09	0.983	--		1
1,3,5-Trimethylbenzene	0.495	0.200	--	2.43	0.983	--		1
1,2,4-Trimethylbenzene	1.91	0.200	--	9.39	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-21
Client ID: FR-IA10-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	90		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-21
Client ID: FR-IA10-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 06:15
Analyst: MB

Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.16	0.020	--	4.60	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.338	0.020	--	1.84	0.109	--		1
Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	82		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-22
Client ID: FR-SS10-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 03:40
Analyst: AR

Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.239	0.200	--	1.18	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.08	1.00	--	2.57	2.38	--		1
Trichlorofluoromethane	18.1	0.200	--	102	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-22
Client ID: FR-SS10-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	1.90	0.200	--	10.4	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.722	0.200	--	2.72	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-22
Client ID: FR-SS10-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:41
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-23
Client ID: FR-IA11-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 06:47
Analyst: MB

Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.430	0.200	--	2.13	0.989	--		1
Chloromethane	0.526	0.200	--	1.09	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	25.2	5.00	--	47.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.293	0.200	--	1.65	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-23
Client ID: FR-IA11-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	1.74	0.200	--	6.13	0.705	--		1
Benzene	1.51	0.200	--	4.82	0.639	--		1
Cyclohexane	0.666	0.200	--	2.29	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.59	0.200	--	7.43	0.934	--		1
Heptane	0.992	0.200	--	4.07	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	11.3	0.200	--	42.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.20	0.200	--	9.56	0.869	--		1
p/m-Xylene	8.65	0.400	--	37.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.28	0.200	--	14.2	0.869	--		1
4-Ethyltoluene	0.763	0.200	--	3.75	0.983	--		1
1,3,5-Trimethylbenzene	0.753	0.200	--	3.70	0.983	--		1
1,2,4-Trimethylbenzene	2.70	0.200	--	13.3	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-23
Client ID: FR-IA11-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	97		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-23
Client ID: FR-IA11-021916
Sample Location: SYRACUSE, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/16 06:47
Analyst: MB

Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	92		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-24
Client ID: FR-SS11-021916
Sample Location: SYRACUSE, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/01/16 04:11
Analyst: AR

Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.319	0.200	--	1.58	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.76	1.00	--	16.1	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.593	0.200	--	1.85	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-24
Client ID: FR-SS11-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.82	0.200	--	6.41	0.705	--		1
1,1,1-Trichloroethane	0.412	0.200	--	2.25	1.09	--		1
Benzene	0.982	0.200	--	3.14	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.625	0.200	--	2.15	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.226	0.200	--	1.21	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	1.72	0.200	--	7.05	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.60	0.200	--	9.80	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.224	0.200	--	0.973	0.869	--		1
p/m-Xylene	1.34	0.400	--	5.82	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

SAMPLE RESULTS

Lab ID: L1604824-24
Client ID: FR-SS11-021916
Sample Location: SYRACUSE, NY
Date Collected: 02/19/16 15:25
Date Received: 02/22/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.413	0.200	--	1.79	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.208	0.200	--	1.02	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	87		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/29/16 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/29/16 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/29/16 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/29/16 18:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/29/16 18:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/29/16 18:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 02/29/16 19:11

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 02/29/16 19:11

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1604824
Report Date: 03/01/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 02/29/16 19:11

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-3								
Chlorodifluoromethane	88		-		70-130	-		
Propylene	95		-		70-130	-		
Propane	82		-		70-130	-		
Dichlorodifluoromethane	74		-		70-130	-		
Chloromethane	106		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	101		-		70-130	-		
Methanol	93		-		70-130	-		
Vinyl chloride	106		-		70-130	-		
1,3-Butadiene	113		-		70-130	-		
Butane	104		-		70-130	-		
Bromomethane	103		-		70-130	-		
Chloroethane	106		-		70-130	-		
Ethyl Alcohol	96		-		70-130	-		
Dichlorofluoromethane	98		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acrolein	101		-		70-130	-		
Acetone	105		-		70-130	-		
Acetonitrile	99		-		70-130	-		
Trichlorofluoromethane	106		-		70-130	-		
iso-Propyl Alcohol	99		-		70-130	-		
Acrylonitrile	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-3								
Pentane	101		-		70-130	-		
Ethyl ether	99		-		70-130	-		
1,1-Dichloroethene	108		-		70-130	-		
tert-Butyl Alcohol	88		-		70-130	-		
Methylene chloride	116		-		70-130	-		
3-Chloropropene	109		-		70-130	-		
Carbon disulfide	103		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		-		70-130	-		
trans-1,2-Dichloroethene	86		-		70-130	-		
1,1-Dichloroethane	93		-		70-130	-		
Methyl tert butyl ether	86		-		70-130	-		
Vinyl acetate	**38**	Q	-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	104		-		70-130	-		
Ethyl Acetate	95		-		70-130	-		
Chloroform	97		-		70-130	-		
Tetrahydrofuran	94		-		70-130	-		
2,2-Dichloropropane	85		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	103		-		70-130	-		
Isopropyl Ether	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-3								
Ethyl-Tert-Butyl-Ether	92		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
1,1-Dichloropropene	100		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	102		-		70-130	-		
Tertiary-Amyl Methyl Ether	88		-		70-130	-		
Dibromomethane	96		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	104		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	113		-		70-130	-		
2,2,4-Trimethylpentane	107		-		70-130	-		
Methyl Methacrylate	96		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	108		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	92		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	90		-		70-130	-		
1,3-Dichloropropane	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-3								
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		
Butyl Acetate	86		-		70-130	-		
Octane	86		-		70-130	-		
Tetrachloroethene	91		-		70-130	-		
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	100		-		70-130	-		
Bromoform	102		-		70-130	-		
Styrene	97		-		70-130	-		
1,1,2,2-Tetrachloroethane	98		-		70-130	-		
o-Xylene	105		-		70-130	-		
1,2,3-Trichloropropane	92		-		70-130	-		
Nonane (C9)	98		-		70-130	-		
Isopropylbenzene	95		-		70-130	-		
Bromobenzene	93		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	96		-		70-130	-		
p-Chlorotoluene	93		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 Batch: WG869138-3								
4-Ethyltoluene	96		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
tert-Butylbenzene	102		-		70-130	-		
1,2,4-Trimethylbenzene	113		-		70-130	-		
Decane (C10)	101		-		70-130	-		
Benzyl chloride	100		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	102		-		70-130	-		
sec-Butylbenzene	100		-		70-130	-		
p-Isopropyltoluene	92		-		70-130	-		
1,2-Dichlorobenzene	99		-		70-130	-		
n-Butylbenzene	101		-		70-130	-		
1,2-Dibromo-3-chloropropane	96		-		70-130	-		
Undecane	105		-		70-130	-		
Dodecane (C12)	120		-		70-130	-		
1,2,4-Trichlorobenzene	105		-		70-130	-		
Naphthalene	101		-		70-130	-		
1,2,3-Trichlorobenzene	93		-		70-130	-		
Hexachlorobutadiene	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-3								
Chlorodifluoromethane	96		-		70-130	-		
Propylene	99		-		70-130	-		
Propane	76		-		70-130	-		
Dichlorodifluoromethane	127		-		70-130	-		
Chloromethane	88		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	109		-		70-130	-		
Methanol	75		-		70-130	-		
Vinyl chloride	97		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	101		-		70-130	-		
Chloroethane	90		-		70-130	-		
Ethyl Alcohol	90		-		70-130	-		
Dichlorofluoromethane	102		-		70-130	-		
Vinyl bromide	102		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	100		-		70-130	-		
Acetonitrile	77		-		70-130	-		
Trichlorofluoromethane	126		-		70-130	-		
iso-Propyl Alcohol	101		-		70-130	-		
Acrylonitrile	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-3								
Pentane	80		-		70-130	-		
Ethyl ether	80		-		70-130	-		
1,1-Dichloroethene	105		-		70-130	-		
tert-Butyl Alcohol	96		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	92		-		70-130	-		
Carbon disulfide	90		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	96		-		70-130	-		
Vinyl acetate	101		-		70-130	-		
2-Butanone	88		-		70-130	-		
cis-1,2-Dichloroethene	118		-		70-130	-		
Ethyl Acetate	109		-		70-130	-		
Chloroform	120		-		70-130	-		
Tetrahydrofuran	87		-		70-130	-		
2,2-Dichloropropane	110		-		70-130	-		
1,2-Dichloroethane	119		-		70-130	-		
n-Hexane	85		-		70-130	-		
Isopropyl Ether	85		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-3								
Ethyl-Tert-Butyl-Ether	82		-		70-130	-		
1,1,1-Trichloroethane	109		-		70-130	-		
1,1-Dichloropropene	91		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	115		-		70-130	-		
Cyclohexane	82		-		70-130	-		
Tertiary-Amyl Methyl Ether	82		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dichloropropane	89		-		70-130	-		
Bromodichloromethane	108		-		70-130	-		
1,4-Dioxane	98		-		70-130	-		
Trichloroethene	104		-		70-130	-		
2,2,4-Trimethylpentane	87		-		70-130	-		
Methyl Methacrylate	83		-		70-130	-		
Heptane	81		-		70-130	-		
cis-1,3-Dichloropropene	100		-		70-130	-		
4-Methyl-2-pentanone	89		-		70-130	-		
trans-1,3-Dichloropropene	92		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	95		-		70-130	-		
1,3-Dichloropropane	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-3								
2-Hexanone	93		-		70-130	-		
Dibromochloromethane	114		-		70-130	-		
1,2-Dibromoethane	104		-		70-130	-		
Butyl Acetate	90		-		70-130	-		
Octane	83		-		70-130	-		
Tetrachloroethene	108		-		70-130	-		
1,1,1,2-Tetrachloroethane	105		-		70-130	-		
Chlorobenzene	101		-		70-130	-		
Ethylbenzene	100		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	122		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	103		-		70-130	-		
o-Xylene	105		-		70-130	-		
1,2,3-Trichloropropane	96		-		70-130	-		
Nonane (C9)	81		-		70-130	-		
Isopropylbenzene	101		-		70-130	-		
Bromobenzene	96		-		70-130	-		
o-Chlorotoluene	98		-		70-130	-		
n-Propylbenzene	97		-		70-130	-		
p-Chlorotoluene	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869392-3								
4-Ethyltoluene	99		-		70-130	-		
1,3,5-Trimethylbenzene	106		-		70-130	-		
tert-Butylbenzene	102		-		70-130	-		
1,2,4-Trimethylbenzene	111		-		70-130	-		
Decane (C10)	89		-		70-130	-		
Benzyl chloride	119		-		70-130	-		
1,3-Dichlorobenzene	117		-		70-130	-		
1,4-Dichlorobenzene	113		-		70-130	-		
sec-Butylbenzene	102		-		70-130	-		
p-Isopropyltoluene	96		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
n-Butylbenzene	104		-		70-130	-		
1,2-Dibromo-3-chloropropane	112		-		70-130	-		
Undecane	97		-		70-130	-		
Dodecane (C12)	115		-		70-130	-		
1,2,4-Trichlorobenzene	**144**	Q	-		70-130	-		
Naphthalene	124		-		70-130	-		
1,2,3-Trichlorobenzene	130		-		70-130	-		
Hexachlorobutadiene	**144**	Q	-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869393-3								
Dichlorodifluoromethane	**158**	Q	-		70-130	-		25
Chloromethane	98		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	122		-		70-130	-		25
Vinyl chloride	105		-		70-130	-		25
1,3-Butadiene	104		-		70-130	-		25
Bromomethane	113		-		70-130	-		25
Chloroethane	97		-		70-130	-		25
Acetone	114		-		70-130	-		25
Trichlorofluoromethane	**139**	Q	-		70-130	-		25
Acrylonitrile	92		-		70-130	-		25
1,1-Dichloroethene	120		-		70-130	-		25
Methylene chloride	110		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	118		-		70-130	-		25
Halothane	126		-		70-130	-		25
trans-1,2-Dichloroethene	100		-		70-130	-		25
1,1-Dichloroethane	106		-		70-130	-		25
Methyl tert butyl ether	105		-		70-130	-		25
2-Butanone	100		-		70-130	-		25
cis-1,2-Dichloroethene	120		-		70-130	-		25
Chloroform	118		-		70-130	-		25
1,2-Dichloroethane	**136**	Q	-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869393-3								
1,1,1-Trichloroethane	107		-		70-130	-		25
Benzene	86		-		70-130	-		25
Carbon tetrachloride	115		-		70-130	-		25
1,2-Dichloropropane	86		-		70-130	-		25
Bromodichloromethane	107		-		70-130	-		25
1,4-Dioxane	94		-		70-130	-		25
Trichloroethene	101		-		70-130	-		25
cis-1,3-Dichloropropene	100		-		70-130	-		25
4-Methyl-2-pentanone	90		-		70-130	-		25
trans-1,3-Dichloropropene	92		-		70-130	-		25
1,1,2-Trichloroethane	101		-		70-130	-		25
Toluene	91		-		70-130	-		25
Dibromochloromethane	110		-		70-130	-		25
1,2-Dibromoethane	102		-		70-130	-		25
Tetrachloroethene	105		-		70-130	-		25
1,1,1,2-Tetrachloroethane	102		-		70-130	-		25
Chlorobenzene	100		-		70-130	-		25
Ethylbenzene	95		-		70-130	-		25
p/m-Xylene	100		-		70-130	-		25
Bromoform	120		-		70-130	-		25
Styrene	98		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 Batch: WG869393-3								
1,1,2,2-Tetrachloroethane	101		-		70-130	-		25
o-Xylene	101		-		70-130	-		25
Isopropylbenzene	96		-		70-130	-		25
4-Ethyltoluene	98		-		70-130	-		25
1,3,5-Trimethylbenzene	104		-		70-130	-		25
1,2,4-Trimethylbenzene	106		-		70-130	-		25
1,3-Dichlorobenzene	115		-		70-130	-		25
1,4-Dichlorobenzene	110		-		70-130	-		25
sec-Butylbenzene	98		-		70-130	-		25
p-Isopropyltoluene	93		-		70-130	-		25
1,2-Dichlorobenzene	114		-		70-130	-		25
n-Butylbenzene	103		-		70-130	-		25
1,2,4-Trichlorobenzene	**140**	Q	-		70-130	-		25
Naphthalene	120		-		70-130	-		25
1,2,3-Trichlorobenzene	130		-		70-130	-		25
Hexachlorobutadiene	**141**	Q	-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 QC Batch ID: WG869138-5 QC Sample: L1604824-14 Client ID: FR-SS06-021916						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	28.0	28.4	ppbV	1		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	5650	5740	ppbV	2		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 QC Batch ID: WG869138-5 QC Sample: L1604824-14 Client ID: FR-SS06-021916					
1,1-Dichloroethane	1190	1200	ppbV	1	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	72.1	67.6	ppbV	6	25
2,2,4-Trimethylpentane	43.4	41.7	ppbV	4	25
Heptane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 QC Batch ID: WG869138-5 QC Sample: L1604824-14 Client ID: FR-SS06-021916					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,05,07,09-10,12,14,16,18,20,22,24 QC Batch ID: WG869138-5 QC Sample: L1604824-14 Client ID: FR-SS06-021916					
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 QC Batch ID: WG869392-5 QC Sample: L1604824-01 Client ID: FR-IA01-021916					
Dichlorodifluoromethane	0.446	0.427	ppbV	4	25
Chloromethane	0.429	0.479	ppbV	11	25
Freon-114	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Ethanol	41.0	44.7	ppbV	9	25
Vinyl bromide	ND	ND	ppbV	NC	25
Acetone	ND	ND	ppbV	NC	25
Trichlorofluoromethane	0.260	0.303	ppbV	15	25
Isopropanol	ND	ND	ppbV	NC	25
Tertiary butyl Alcohol	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
3-Chloropropene	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 QC Batch ID: WG869392-5 QC Sample: L1604824-01 Client ID: FR-IA01-021916					
2-Butanone	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	2.15	2.19	ppbV	2	25
Benzene	1.55	1.55	ppbV	0	25
Cyclohexane	0.697	0.687	ppbV	1	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	1.80	1.91	ppbV	6	25
Heptane	1.01	1.05	ppbV	4	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	12.4	12.7	ppbV	2	25
2-Hexanone	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 QC Batch ID: WG869392-5 QC Sample: L1604824-01 Client ID: FR-IA01-021916					
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	2.44	2.44	ppbV	0	25
p/m-Xylene	9.94	9.81	ppbV	1	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	3.67	3.70	ppbV	1	25
4-Ethyltoluene	0.967	0.966	ppbV	0	25
1,3,5-Trimethylbenzene	1.00	1.03	ppbV	3	25
1,2,4-Trimethylbenzene	3.98	4.03	ppbV	1	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03-04,06,08,11,13,15,17,19,21,23 QC Batch ID: WG869393-5 QC Sample: L1604824-01 Client ID: FR-IA01-021916					
Vinyl chloride	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.081	0.082	ppbV	1	25
Trichloroethene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1604824-01	FR-IA01-021916	0792	#3 AMB	02/18/16	217093		-	-	-	Pass	10.0	12.7	24
L1604824-01	FR-IA01-021916	1895	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.7	-0.8	-	-	-	-
L1604824-02	FR-SS01-021916	0679	#20 AMB	02/18/16	217093		-	-	-	Pass	10.0	9.0	11
L1604824-02	FR-SS01-021916	1814	6.0L Can	02/18/16	217093	L1604073-02	Pass	-29.3	-5.6	-	-	-	-
L1604824-03	FR-AA01-021916	0264	#16 SV	02/18/16	217093		-	-	-	Pass	9.8	9.3	5
L1604824-03	FR-AA01-021916	1052	6.0L Can	02/18/16	217093	L1603794-01	Pass	-29.7	-6.2	-	-	-	-
L1604824-04	FR-IA02-021916	0577	#20 AMB	02/18/16	217093		-	-	-	Pass	9.9	10.0	1
L1604824-04	FR-IA02-021916	1840	6.0L Can	02/18/16	217093	L1604073-02	Pass	-29.7	-4.6	-	-	-	-
L1604824-05	FR-SS02-021916	0029	#20 SV	02/18/16	217093		-	-	-	Pass	10.0	10.0	0
L1604824-05	FR-SS02-021916	1529	6.0L Can	02/18/16	217093	L1604073-02	Pass	-29.6	-3.7	-	-	-	-
L1604824-06	FR-IA03-021916	0224	#20 AMB	02/18/16	217093		-	-	-	Pass	10.0	10.2	2
L1604824-06	FR-IA03-021916	1990	6.0L Can	02/18/16	217093	L1603631-02	Pass	-29.7	-3.0	-	-	-	-
L1604824-07	FR-SS03-021916	0133	#16 AMB	02/18/16	217093		-	-	-	Pass	9.3	7.7	19
L1604824-07	FR-SS03-021916	1841	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-9.5	-	-	-	-
L1604824-08	FR-IA04-021916	0413	#16 AMB	02/18/16	217093		-	-	-	Pass	10.0	6.6	41

Project Name: LOCKHEED MARTIN

Lab Number: L1604824

Project Number: 50238

Report Date: 03/01/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1604824-08	FR-IA04-021916	1777	6.0L Can	02/18/16	217093	L1603920-02	Pass	-29.7	-14.4	-	-	-	-
L1604824-09	FR-SS04-021916	0555	#20 AMB	02/18/16	217093		-	-	-	Pass	9.7	3.7	90
L1604824-09	FR-SS04-021916	953	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-5.8	-	-	-	-
L1604824-10	FR-DUP-021916	0733	#16 AMB	02/18/16	217093		-	-	-	Pass	9.8	9.9	1
L1604824-10	FR-DUP-021916	2097	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-5.5	-	-	-	-
L1604824-11	FR-IA05-021916	0429	#30 SV	02/18/16	217093		-	-	-	Pass	10.0	6.8	38
L1604824-11	FR-IA05-021916	964	6.0L Can	02/18/16	217093	L1603967-01	Pass	-29.1	-11.3	-	-	-	-
L1604824-12	FR-SS05-021916	0907	#4 AMB	02/18/16	217093		-	-	-	Pass	10.0	9.1	9
L1604824-12	FR-SS05-021916	972	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-4.4	-	-	-	-
L1604824-13	FR-IA06-021916	0249	#16 AMB	02/18/16	217093		-	-	-	Pass	9.6	9.2	4
L1604824-13	FR-IA06-021916	1979	6.0L Can	02/18/16	217093	L1603284-02	Pass	-29.1	-6.2	-	-	-	-
L1604824-14	FR-SS06-021916	0772	#4 AMB	02/18/16	217093		-	-	-	Pass	10.0	10.1	1
L1604824-14	FR-SS06-021916	624	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.4	-5.7	-	-	-	-
L1604824-15	FR-IA07-021916	0806	#4 AMB	02/18/16	217093		-	-	-	Pass	9.1	10.8	17
L1604824-15	FR-IA07-021916	961	6.0L Can	02/18/16	217093	L1603967-02	Pass	-29.7	-3.7	-	-	-	-

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1604824

Report Date: 03/01/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1604824-16	FR-SS07-021916	0925	#4 AMB	02/18/16	217093		-	-	-	Pass	10.0	9.8	2
L1604824-16	FR-SS07-021916	965	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-5.7	-	-	-	-
L1604824-17	FR-IA08-021916	0064	#16 AMB	02/18/16	217093		-	-	-	Pass	10.0	9.9	1
L1604824-17	FR-IA08-021916	1633	6.0L Can	02/18/16	217093	L1603694-01	Pass	-29.8	-5.5	-	-	-	-
L1604824-18	FR-SS08-021916	0531	#16 SV	02/18/16	217093		-	-	-	Pass	9.9	9.9	0
L1604824-18	FR-SS08-021916	1583	6.0L Can	02/18/16	217093	L1604073-02	Pass	-29.8	-5.9	-	-	-	-
L1604824-19	FR-IA09-021916	0121	#16 AMB	02/18/16	217093		-	-	-	Pass	10.0	10.3	3
L1604824-19	FR-IA09-021916	639	6.0L Can	02/18/16	217093	L1603440-01	Pass	-29.7	-3.8	-	-	-	-
L1604824-20	FR-SS09-021916	0432	#16 AMB	02/18/16	217093		-	-	-	Pass	9.8	8.6	13
L1604824-20	FR-SS09-021916	2127	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-4.4	-	-	-	-
L1604824-21	FR-IA10-021916	0236	#16 AMB	02/18/16	217093		-	-	-	Pass	10.0	10.0	0
L1604824-21	FR-IA10-021916	1615	6.0L Can	02/18/16	217093	L1603694-02	Pass	-29.8	-5.9	-	-	-	-
L1604824-22	FR-SS10-021916	0088	#90 SV	02/18/16	217093		-	-	-	Pass	10.0	9.5	5
L1604824-22	FR-SS10-021916	2002	6.0L Can	02/18/16	217093	L1604073-01	Pass	-29.8	-10.1	-	-	-	-
L1604824-23	FR-IA11-021916	0910	#4 AMB	02/18/16	217093		-	-	-	Pass	9.8	10.8	10

Project Name: LOCKHEED MARTIN

Lab Number: L1604824

Project Number: 50238

Report Date: 03/01/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1604824-23	FR-IA11-021916	1863	6.0L Can	02/18/16	217093	L1603794-02	Pass	-29.2	-1.4	-	-	-	-
L1604824-24	FR-SS11-021916	0430	#16 AMB	02/18/16	217093		-	-	-	Pass	9.2	7.6	19
L1604824-24	FR-SS11-021916	583	6.0L Can	02/18/16	217093	L1604073-02	Pass	-29.8	-10.1	-	-	-	-
L1604824-25	UNUSED CAN #927	0139	#16 AMB	02/18/16	217093		-	-	-	Pass	9.7	9.2	5
L1604824-25	UNUSED CAN #927	927	6.0L Can	02/18/16	217093	L1603920-01	Pass	-29.7	-29.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/09/16 15:25
Analyst: RY

Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:
Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:

Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:

Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1603284

Project Number: CANISTER QC BAT **Report Date:** 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02 Date Collected: 02/08/16 08:30

Client ID: CAN 1979 SHELF 57 Date Received: 02/08/16

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/09/16 15:25
Analyst: RY

Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:

Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603284
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603284-02
Client ID: CAN 1979 SHELF 57
Sample Location:
Date Collected: 02/08/16 08:30
Date Received: 02/08/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/10/16 15:38
Analyst: RY

Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:

Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:
Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:

Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:
Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/10/16 15:38
Analyst: RY

Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:
Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603440
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603440-01
Client ID: CAN 639 SHELF 52
Sample Location:
Date Collected: 02/09/16 10:00
Date Received: 02/09/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/11/16 18:02
Analyst: RY

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:
Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:
Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1603631

Project Number: CANISTER QC BAT **Report Date:** 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02 Date Collected: 02/10/16 16:00

Client ID: CAN 1990 SHELF 51 Date Received: 02/11/16

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/11/16 18:02
Analyst: RY

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:
Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603631
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603631-02
Client ID: CAN 1990 SHELF 51
Sample Location:
Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/11/16 19:09
Analyst: RY

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/11/16 19:09
Analyst: RY

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-01
Client ID: CAN 1633 SHELF 46
Sample Location:

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/11/16 19:43
Analyst: RY

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/11/16 19:43
Analyst: RY

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:
Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603694
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603694-02
Client ID: CAN1615 SHELF 47
Sample Location:

Date Collected: 02/11/16 09:00
Date Received: 02/11/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/12/16 16:24
Analyst: RY

Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/12/16 16:24
Analyst: RY

Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-01
Client ID: CAN 1052 SHELF 41
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/12/16 16:57
Analyst: RY

Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/12/16 16:57
Analyst: RY

Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603794
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02
Client ID: CAN 1863 SHELF 42
Sample Location:
Date Collected: 02/11/16 16:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1603794

Project Number: CANISTER QC BAT **Report Date:** 03/01/16

Air Canister Certification Results

Lab ID: L1603794-02 Date Collected: 02/11/16 16:00

Client ID: CAN 1863 SHELF 42 Date Received: 02/12/16

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/12/16 19:16
Analyst: RY

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	104		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/12/16 19:16
Analyst: RY

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-01
Client ID: CAN 927 SHELF 46
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	102		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/12/16 19:48
Analyst: RY

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/12/16 19:48
Analyst: RY

Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603920
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603920-02
Client ID: CAN 1777 SHELF 47
Sample Location:
Date Collected: 02/12/16 09:00
Date Received: 02/12/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/13/16 15:31
Analyst: RY

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/13/16 15:31
Analyst: RY

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-01
Client ID: CAN 964 SHELF 51
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/13/16 16:03
Analyst: RY

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/13/16 16:03
Analyst: RY

Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1603967
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1603967-02
Client ID: CAN 961 SHELF 52
Sample Location:
Date Collected: 02/12/16 18:30
Date Received: 02/13/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/17/16 00:05
Analyst: RY

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:
Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:
Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/17/16 00:05
Analyst: RY

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-01
Client ID: CAN 1895 SHELF 41
Sample Location:
Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/17/16 00:36
Analyst: RY

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:
Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:
Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1604073

Project Number: CANISTER QC BAT **Report Date:** 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02 Date Collected: 02/15/16 16:00

Client ID: CAN 1840 SHELF 46 Date Received: 02/16/16

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/17/16 00:36
Analyst: RY

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:

Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1604073
Report Date: 03/01/16

Air Canister Certification Results

Lab ID: L1604073-02
Client ID: CAN 1840 SHELF 46
Sample Location:
Date Collected: 02/15/16 16:00
Date Received: 02/16/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	95		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1604824
Report Date: 03/01/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1604824-01A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-02A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-03A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-04A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-05A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-06A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-07A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-08A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-09A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-10A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-11A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-12A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-13A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-14A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-15A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-16A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-17A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-18A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-19A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-20A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-21A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-22A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-23A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30),TO15-SIM(30)
L1604824-24A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1604824-25A	Canister - 6 Liter	N/A	N/A		Y	Absent	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1604824
Project Number:	50238	**Report Date:**	03/01/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: Data Usability Report

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1604824
Project Number:	50238	**Report Date:**	03/01/16

Data Qualifiers

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1604824
Project Number:	50238	**Report Date:**	03/01/16

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 3

CHAIN OF CUSTODY

Date Rec'd in Lab: 2/23/16

ALPHA Job #: L1604824

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

Client Information

Client: OBG
Address: 333 W. Washington St
Syracuse NY 13221
Phone: 315-956-6674
Fax:
Email: eric.alongi@obg.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Syracuse NY
Project #: 50238
Project Manager: Eric Alongi
ALPHA Quote #: A2016015R1

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
1604824-01	FR-IA01-021916	2/19/16	0707	1504	29.98	3.16	AA	EA	6L	1895	0792		X				
-02	FR-SS01-021916	2/19/16	0707	1504	29.51	7.67	SV	EA	6L	1814	0679	X					
-03	FR-AA01-021916	2/19/16	0848	1646	29.97	7.82	AA	EA	6L	1052	0264		X				
-04	FR-IA02-021916	2/19/16	0719	1514	29.97	6.95	AA	EA	6L	1840	0577		X				
-05	FR-SS02-021916	2/19/16	0719	1514	29.68	6.02	SV	EA	6L	1529	0029	X					
-06	FR-IA03-021916	2/19/16	0836	1630	30.11	4.95	AA	EA	6L	1990	0224		X				
-07	FR-SS03-021916	2/19/16	0836	1630	30.12	10.82	SV	EA	6L	1841	0133	X					
-08	FR-IA04-021916	2/19/16	0843	1641	30.02	15.59	AA	EA	6L	1777	0413		X				
-09	FR-SS04-021916	2/19/16	0843	1641	30.12	7.65	SV	EA	6L	953	0555	X					
-10	FR-DUP-021916	2/19/16	0843	1641	30.12	7.40	SV	EA	6L	2097	0733	X					

ANALYSIS

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
[signature]	2/22/16 1555	[signature]	2/22/16 15 JJ
[signature]	2/23/16 0400	[signature]	2/23/16 00:35
			2/23/16 04:00

Form No: 101-02 Rev: (25-Sep-15)

AIR ANALYSIS

PAGE 2 OF 3

CHAIN OF CUSTODY

Date Rec'd in Lab: 2/23/16

ALPHA Job #: L1604824

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

Client Information

Client: OBG
Address: 333 W. Washington St
Syracuse NY 13221
Phone: 315.956.6074
Fax:
Email: eric.alongi@obg.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Syracuse NY
Project #: 50238
Project Manager: Eric Alongi
ALPHA Quote #: A20160158

Turn-Around Time

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

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
-11	FR-IA05-021916	2/19/16	0814	1618	29.37	12.64	AA	EA	6L	964	0429		X				
-12	FR-SS05-021916	2/19/16	0814	1618	30.12	6.33	SV	EA	6L	972	0907	X					
-13	FR-IA06-021916	2/19/16	0824	1621	29.34	7.95	AA	EA	6L	1979	0249		X				
-14	FR-SS06-021916	2/19/16	0824	1621	29.54	7.47	SV	EA	6L	624	0772	X					
-15	FR-IA07-021916	2/19/16	0831	1626	30.02	5.76	AA	EA	6L	901	0806		X				
-16	FR-SS07-021916	2/19/16	0831	1626	30.14	7.55	SV	EA	6L	985	0925	X					
-17	FR-IA08-021916	2/19/16	0806	1604	30.13	7.32	AA	EA	6L	1633	0064		X				
-18	FR-SS08-021916	2/19/16	0806	1604	30.07	7.57	SV	EA	6L	1583	0531	X					
-19	FR-IA09-021916	2/19/16	0802	1600	30.01	5.42	AA	EA	6L	639	0121		X				
-20	FR-SS09-021916	2/19/16	0802	1600	30.15	5.97	SV	EA	6L	2127	0432	X					

ANALYSIS

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
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Other = Please Specify

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	2/22/16 1555	J Hoover AMC	2/22/16 1555
J. Hoover AMC	2/22/16 2/23/16 0400		2/23/16 00:35
			2/23/16 04:00

Form No: 101-02 Rev: (25-Sep-15)

AIR ANALYSIS

PAGE 3 OF 3

CHAIN OF CUSTODY

Date Rec'd in Lab: 2/23/16

ALPHA Job #: L1604824

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

Client Information

Client: OBG
Address: 333 W. Washington St
Syracuse NY 13221
Phone: 315-956-6674
Fax:
Email: eric.alongi@obg.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Syracuse NY
Project #: 50238
Project Manager: Eric Alongi
ALPHA Quote #: A20160151

Turn-Around Time

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

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
-21	FR-IA10-021916	2/19/16	0753	1741/1541	29.97	7.63	AA	EA	6L	1615	0236		X				
-22	FR-SS10-021916	2/19/16	0753	1541	30.15	11.49	SV	EA	6L	2002	0088	X					
-23	FR-IA11-021916	2/19/16	0730	1525	29.49	3.84	AA	EA	6L	1863	0910		X				
-24	FR-SS11-021916	2/19/16	0730	1525	30.08	11.52	SV	EA	6L	583	0430	X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	2/22/16 1555	J. Hoover AMC	2/22/16 15[illegible]
J. Hoover AMC 2/22/16			2/23/16 00:35
	2/23/16 0400		2/23/16 04:00

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L1702331
Client:	O'Brien & Gere Engineers 333 W. Washington Street Syracuse, NY 13021
ATTN:	Eric Alongi
Phone:	(315) 956-6674
Project Name:	LM-FARRELL RD.
Project Number:	50238
Report Date:	01/31/17

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1702331-01	FR-011717-IA-03	AIR	GEDDES, NY	01/17/17 15:37	01/24/17
L1702331-02	FR-011717-AA	AIR	GEDDES, NY	01/17/17 16:06	01/24/17
L1702331-03	FR-011717-IA-04	AIR	GEDDES, NY	01/17/17 15:30	01/24/17
L1702331-04	FR-011717-IAD	AIR	GEDDES, NY	01/17/17 15:30	01/24/17
L1702331-05	FR-011717-IA-05	AIR	GEDDES, NY	01/17/17 15:48	01/24/17
L1702331-06	FR-011717-IA-06	AIR	GEDDES, NY	01/17/17 15:41	01/24/17
L1702331-07	FR-011717-IA-07	AIR	GEDDES, NY	01/17/17 15:40	01/24/17
L1702331-08	FR-011717-IA-08	AIR	GEDDES, NY	01/17/17 15:56	01/24/17
L1702331-09	FR-011717-IA-09	AIR	GEDDES, NY	01/17/17 15:25	01/24/17
L1702331-10	FR-011717-IA-10	AIR	GEDDES, NY	01/17/17 15:52	01/24/17
L1702331-11	UNUSED CAN#1036	AIR	GEDDES, NY		01/24/17

Project Name: LM-FARRELL RD. **Lab Number:** L1702331
Project Number: 50238 **Report Date:** 01/31/17

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: LM-FARRELL RD. **Lab Number:** L1702331
Project Number: 50238 **Report Date:** 01/31/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 16, 2017. The canister certification results are provided as an addendum.

Sample L1702331-01, -03 through -10 The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

Sample L1702331-02 results for Acetone should be considered estimated due to co-elution with a non-target peak.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 01/31/17

AIR

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-01
Client ID: FR-011717-IA-03
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 20:14
Analyst: MB

Date Collected: 01/17/17 15:37
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.416	0.200	--	2.06	0.989	--		1
Chloromethane	0.555	0.200	--	1.15	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	16.9	5.00	--	31.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	11.8	0.200	--	66.3	1.12	--		1
Isopropanol	0.886	0.500	--	2.18	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.744	0.500	--	2.19	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-01 Date Collected: 01/17/17 15:37

Client ID: FR-011717-IA-03 Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	7.17	0.200	--	25.3	0.705	--		1
Benzene	5.79	0.200	--	18.5	0.639	--		1
Cyclohexane	1.02	0.200	--	3.51	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	3.96	0.200	--	18.5	0.934	--		1
Heptane	3.21	0.200	--	13.2	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	38.6	0.200	--	145	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.59	0.200	--	15.6	0.869	--		1
p/m-Xylene	15.6	0.400	--	67.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	4.49	0.200	--	19.5	0.869	--		1
4-Ethyltoluene	0.663	0.200	--	3.26	0.983	--		1
1,3,5-Trimethylbenzene	0.494	0.200	--	2.43	0.983	--		1
1,2,4-Trimethylbenzene	1.93	0.200	--	9.49	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-01
Client ID: FR-011717-IA-03
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:37
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-01
Client ID: FR-011717-IA-03
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 20:14
Analyst: MB

Date Collected: 01/17/17 15:37
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.707	0.020	--	2.80	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.194	0.020	--	1.06	0.109	--		1
Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.040	0.020	--	0.271	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-02
Client ID: FR-011717-AA
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 21:18
Analyst: MB

Date Collected: 01/17/17 16:06
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.437	0.200	--	2.16	0.989	--		1
Chloromethane	0.616	0.200	--	1.27	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.01	1.00	--	2.40	2.38	--		1
Trichlorofluoromethane	1.06	0.200	--	5.96	1.12	--		1
Isopropanol	0.600	0.500	--	1.47	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-02 Date Collected: 01/17/17 16:06

Client ID: FR-011717-AA Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.800	0.200	--	2.82	0.705	--		1
Benzene	0.874	0.200	--	2.79	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.449	0.200	--	2.10	0.934	--		1
Heptane	0.383	0.200	--	1.57	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.07	0.200	--	15.3	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.380	0.200	--	1.65	0.869	--		1
p/m-Xylene	1.56	0.400	--	6.78	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.459	0.200	--	1.99	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-02
Client ID: FR-011717-AA
Sample Location: GEDDES, NY
Date Collected: 01/17/17 16:06
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	80		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	81		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-02
Client ID: FR-011717-AA
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 21:18
Analyst: MB

Date Collected: 01/17/17 16:06
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.051	0.020	--	0.202	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.074	0.020	--	0.465	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.023	0.020	--	0.156	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	81		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	85		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-03
Client ID: FR-011717-IA-04
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 21:50
Analyst: MB

Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.410	0.200	--	2.03	0.989	--		1
Chloromethane	0.615	0.200	--	1.27	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	11.1	5.00	--	20.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	8.34	0.200	--	46.9	1.12	--		1
Isopropanol	0.636	0.500	--	1.56	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.648	0.500	--	1.91	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-03
Client ID: FR-011717-IA-04
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	3.98	0.200	--	14.0	0.705	--		1
Benzene	3.53	0.200	--	11.3	0.639	--		1
Cyclohexane	0.601	0.200	--	2.07	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.25	0.200	--	10.5	0.934	--		1
Heptane	1.79	0.200	--	7.34	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	21.3	0.200	--	80.3	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.96	0.200	--	8.51	0.869	--		1
p/m-Xylene	8.45	0.400	--	36.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.39	0.200	--	10.4	0.869	--		1
4-Ethyltoluene	0.331	0.200	--	1.63	0.983	--		1
1,3,5-Trimethylbenzene	0.271	0.200	--	1.33	0.983	--		1
1,2,4-Trimethylbenzene	0.997	0.200	--	4.90	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-03
Client ID: FR-011717-IA-04
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	81		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	82		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-03
Client ID: FR-011717-IA-04
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 21:50
Analyst: MB

Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.391	0.020	--	1.55	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.121	0.020	--	0.660	0.109	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	0.025	0.020	--	0.134	0.107	--		1
Tetrachloroethene	0.031	0.020	--	0.210	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	84		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-04
Client ID: FR-011717-IAD
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 22:22
Analyst: MB

Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.475	0.200	--	2.35	0.989	--		1
Chloromethane	0.597	0.200	--	1.23	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	10.7	5.00	--	20.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	8.31	0.200	--	46.7	1.12	--		1
Isopropanol	0.569	0.500	--	1.40	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.691	0.500	--	2.04	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-04 Date Collected: 01/17/17 15:30

Client ID: FR-011717-IAD Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	4.02	0.200	--	14.2	0.705	--		1
Benzene	3.51	0.200	--	11.2	0.639	--		1
Cyclohexane	0.640	0.200	--	2.20	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.23	0.200	--	10.4	0.934	--		1
Heptane	1.76	0.200	--	7.21	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	21.4	0.200	--	80.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.92	0.200	--	8.34	0.869	--		1
p/m-Xylene	8.39	0.400	--	36.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.46	0.200	--	10.7	0.869	--		1
4-Ethyltoluene	0.348	0.200	--	1.71	0.983	--		1
1,3,5-Trimethylbenzene	0.270	0.200	--	1.33	0.983	--		1
1,2,4-Trimethylbenzene	0.983	0.200	--	4.83	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-04
Client ID: FR-011717-IAD
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	81		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	81		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-04
Client ID: FR-011717-IAD
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 22:22
Analyst: MB

Date Collected: 01/17/17 15:30
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.379	0.020	--	1.50	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.119	0.020	--	0.649	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	0.027	0.020	--	0.145	0.107	--		1
Tetrachloroethene	0.032	0.020	--	0.217	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	82		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	82		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-05
Client ID: FR-011717-IA-05
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 22:55
Analyst: MB

Date Collected: 01/17/17 15:48
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.396	0.200	--	1.96	0.989	--		1
Chloromethane	0.575	0.200	--	1.19	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	8.46	5.00	--	15.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	5.61	0.200	--	31.5	1.12	--		1
Isopropanol	0.500	0.500	--	1.23	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-05
Client ID: FR-011717-IA-05
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:48
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.62	0.200	--	9.23	0.705	--		1
Benzene	2.39	0.200	--	7.64	0.639	--		1
Cyclohexane	0.396	0.200	--	1.36	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.52	0.200	--	7.10	0.934	--		1
Heptane	1.20	0.200	--	4.92	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	13.9	0.200	--	52.4	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.29	0.200	--	5.60	0.869	--		1
p/m-Xylene	5.51	0.400	--	23.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.60	0.200	--	6.95	0.869	--		1
4-Ethyltoluene	0.230	0.200	--	1.13	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.679	0.200	--	3.34	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-05
Client ID: FR-011717-IA-05
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:48
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	80		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	82		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-05
Client ID: FR-011717-IA-05
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 22:55
Analyst: MB

Date Collected: 01/17/17 15:48
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.292	0.020	--	1.16	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.117	0.020	--	0.638	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
Tetrachloroethene	0.028	0.020	--	0.190	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	82		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	83		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-06
Client ID: FR-011717-IA-06
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 23:27
Analyst: MB

Date Collected: 01/17/17 15:41
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.560	0.200	--	2.77	0.989	--		1
Chloromethane	0.576	0.200	--	1.19	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	32.6	5.00	--	61.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	16.5	0.200	--	92.7	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.436	0.200	--	1.76	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.868	0.500	--	2.56	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-06 Date Collected: 01/17/17 15:41

Client ID: FR-011717-IA-06 Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	13.2	0.200	--	46.5	0.705	--		1
Benzene	10.4	0.200	--	33.2	0.639	--		1
Cyclohexane	1.92	0.200	--	6.61	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	7.55	0.200	--	35.3	0.934	--		1
Heptane	5.76	0.200	--	23.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	69.5	0.200	--	262	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	6.44	0.200	--	28.0	0.869	--		1
p/m-Xylene	28.4	0.400	--	123	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	8.14	0.200	--	35.4	0.869	--		1
4-Ethyltoluene	1.22	0.200	--	6.00	0.983	--		1
1,3,5-Trimethylbenzene	0.965	0.200	--	4.74	0.983	--		1
1,2,4-Trimethylbenzene	3.61	0.200	--	17.7	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-06
Client ID: FR-011717-IA-06
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:41
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	86		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-06
Client ID: FR-011717-IA-06
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 23:27
Analyst: MB

Date Collected: 01/17/17 15:41
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.75	0.020	--	6.94	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.434	0.020	--	2.37	0.109	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	0.034	0.020	--	0.183	0.107	--		1
Tetrachloroethene	0.051	0.020	--	0.346	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	88		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-07
Client ID: FR-011717-IA-07
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/27/17 23:59
Analyst: MB

Date Collected: 01/17/17 15:40
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.471	0.200	--	2.33	0.989	--		1
Chloromethane	0.527	0.200	--	1.09	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	31.0	5.00	--	58.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	16.0	0.200	--	89.9	1.12	--		1
Isopropanol	0.827	0.500	--	2.03	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.326	0.200	--	1.32	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.698	0.500	--	2.06	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-07
Client ID: FR-011717-IA-07
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:40
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	13.4	0.200	--	47.2	0.705	--		1
Benzene	10.5	0.200	--	33.5	0.639	--		1
Cyclohexane	1.90	0.200	--	6.54	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	7.43	0.200	--	34.7	0.934	--		1
Heptane	5.78	0.200	--	23.7	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	69.6	0.200	--	262	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	6.26	0.200	--	27.2	0.869	--		1
p/m-Xylene	27.6	0.400	--	120	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	7.92	0.200	--	34.4	0.869	--		1
4-Ethyltoluene	1.06	0.200	--	5.21	0.983	--		1
1,3,5-Trimethylbenzene	0.863	0.200	--	4.24	0.983	--		1
1,2,4-Trimethylbenzene	3.18	0.200	--	15.6	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-07
Client ID: FR-011717-IA-07
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:40
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	87		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-07
Client ID: FR-011717-IA-07
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 23:59
Analyst: MB

Date Collected: 01/17/17 15:40
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.38	0.020	--	5.47	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.326	0.020	--	1.78	0.109	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	0.029	0.020	--	0.156	0.107	--		1
Tetrachloroethene	0.054	0.020	--	0.366	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	89		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-08
Client ID: FR-011717-IA-08
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/28/17 00:31
Analyst: MB

Date Collected: 01/17/17 15:56
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.501	0.200	--	2.48	0.989	--		1
Chloromethane	0.559	0.200	--	1.15	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	36.0	5.00	--	67.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	16.5	0.200	--	92.7	1.12	--		1
Isopropanol	0.851	0.500	--	2.09	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.512	0.200	--	2.07	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.965	0.500	--	2.85	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-08
Client ID: FR-011717-IA-08
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:56
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	15.2	0.200	--	53.6	0.705	--		1
Benzene	12.1	0.200	--	38.7	0.639	--		1
Cyclohexane	2.28	0.200	--	7.85	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	8.75	0.200	--	40.9	0.934	--		1
Heptane	6.69	0.200	--	27.4	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	80.9	0.200	--	305	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	7.44	0.200	--	32.3	0.869	--		1
p/m-Xylene	33.2	0.400	--	144	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	9.59	0.200	--	41.7	0.869	--		1
4-Ethyltoluene	1.45	0.200	--	7.13	0.983	--		1
1,3,5-Trimethylbenzene	1.11	0.200	--	5.46	0.983	--		1
1,2,4-Trimethylbenzene	4.20	0.200	--	20.6	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-08
Client ID: FR-011717-IA-08
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:56
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	87		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-08
Client ID: FR-011717-IA-08
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/28/17 00:31
Analyst: MB

Date Collected: 01/17/17 15:56
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.87	0.020	--	7.41	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.488	0.020	--	2.66	0.109	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	0.028	0.020	--	0.150	0.107	--		1
Tetrachloroethene	0.061	0.020	--	0.414	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-09
Client ID: FR-011717-IA-09
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/28/17 01:03
Analyst: MB

Date Collected: 01/17/17 15:25
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.491	0.200	--	2.43	0.989	--		1
Chloromethane	0.600	0.200	--	1.24	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	21.5	5.00	--	40.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	22.2	0.200	--	125	1.12	--		1
Isopropanol	1.38	0.500	--	3.39	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.324	0.200	--	1.31	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.862	0.500	--	2.54	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-09 Date Collected: 01/17/17 15:25

Client ID: FR-011717-IA-09 Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	11.4	0.200	--	40.2	0.705	--		1
Benzene	8.81	0.200	--	28.1	0.639	--		1
Cyclohexane	1.62	0.200	--	5.58	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	6.37	0.200	--	29.8	0.934	--		1
Heptane	4.96	0.200	--	20.3	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	56.4	0.200	--	213	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	5.10	0.200	--	22.2	0.869	--		1
p/m-Xylene	22.0	0.400	--	95.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	6.32	0.200	--	27.5	0.869	--		1
4-Ethyltoluene	0.814	0.200	--	4.00	0.983	--		1
1,3,5-Trimethylbenzene	0.691	0.200	--	3.40	0.983	--		1
1,2,4-Trimethylbenzene	2.44	0.200	--	12.0	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-09
Client ID: FR-011717-IA-09
Sample Location: GEDDES, NY
Date Collected: 01/17/17 15:25
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	90		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-09
Client ID: FR-011717-IA-09
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/28/17 01:03
Analyst: MB

Date Collected: 01/17/17 15:25
Date Received: 01/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.20	0.020	--	4.76	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.725	0.020	--	3.96	0.109	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.021	0.020	--	0.113	0.107	--		1
Tetrachloroethene	0.053	0.020	--	0.359	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-10
Client ID: FR-011717-IA-10
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/28/17 01:35
Analyst: MB

Date Collected: 01/17/17 15:52
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.367	0.200	--	1.81	0.989	--		1
Chloromethane	0.546	0.200	--	1.13	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	16.4	5.00	--	30.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	12.8	0.200	--	71.9	1.12	--		1
Isopropanol	1.19	0.500	--	2.93	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.234	0.200	--	0.947	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.688	0.500	--	2.03	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-10 Date Collected: 01/17/17 15:52

Client ID: FR-011717-IA-10 Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	7.37	0.200	--	26.0	0.705	--		1
Benzene	5.97	0.200	--	19.1	0.639	--		1
Cyclohexane	1.16	0.200	--	3.99	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	4.29	0.200	--	20.0	0.934	--		1
Heptane	3.33	0.200	--	13.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	38.2	0.200	--	144	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.49	0.200	--	15.2	0.869	--		1
p/m-Xylene	15.0	0.400	--	65.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	4.42	0.200	--	19.2	0.869	--		1
4-Ethyltoluene	0.618	0.200	--	3.04	0.983	--		1
1,3,5-Trimethylbenzene	0.512	0.200	--	2.52	0.983	--		1
1,2,4-Trimethylbenzene	1.85	0.200	--	9.09	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1702331

Project Number: 50238 ***Report Date:*** 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-10 Date Collected: 01/17/17 15:52

Client ID: FR-011717-IA-10 Date Received: 01/24/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

SAMPLE RESULTS

Lab ID: L1702331-10
Client ID: FR-011717-IA-10
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/28/17 01:35
Analyst: MB

Date Collected: 01/17/17 15:52
Date Received: 01/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.927	0.020	--	3.68	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.436	0.020	--	2.38	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 15:13

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG973265-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 15:13

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG973265-4								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 15:13

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG973265-4								
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 01/27/17 15:13

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG973265-4								
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/27/17 14:41

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG973687-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/27/17 14:41

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG973687-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/27/17 14:41

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG973687-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG973265-3								
Propylene	91		-		70-130	-		25
Dichlorodifluoromethane	82		-		70-130	-		25
Chloromethane	102		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	88		-		70-130	-		25
Vinyl chloride	96		-		70-130	-		25
1,3-Butadiene	106		-		70-130	-		25
Bromomethane	92		-		70-130	-		25
Chloroethane	92		-		70-130	-		25
Ethyl Alcohol	98		-		70-130	-		25
Vinyl bromide	83		-		70-130	-		25
Acetone	94		-		70-130	-		25
Trichlorofluoromethane	78		-		70-130	-		25
iso-Propyl Alcohol	106		-		70-130	-		25
Acrylonitrile	106		-		70-130	-		25
1,1-Dichloroethene	84		-		70-130	-		25
tert-Butyl Alcohol[1]	79		-		70-130	-		25
Methylene chloride	96		-		70-130	-		25
3-Chloropropene	93		-		70-130	-		25
Carbon disulfide	78		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	78		-		70-130	-		25
Halothane	78		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG973265-3								
trans-1,2-Dichloroethene	76		-		70-130	-		25
1,1-Dichloroethane	84		-		70-130	-		25
Methyl tert butyl ether	76		-		70-130	-		25
Vinyl acetate	95		-		70-130	-		25
2-Butanone	89		-		70-130	-		25
cis-1,2-Dichloroethene	92		-		70-130	-		25
Ethyl Acetate	89		-		70-130	-		25
Chloroform	82		-		70-130	-		25
Tetrahydrofuran	96		-		70-130	-		25
1,2-Dichloroethane	85		-		70-130	-		25
n-Hexane	112		-		70-130	-		25
1,1,1-Trichloroethane	96		-		70-130	-		25
Benzene	97		-		70-130	-		25
Carbon tetrachloride	97		-		70-130	-		25
Cyclohexane	109		-		70-130	-		25
Dibromomethane[1]	86		-		70-130	-		25
1,2-Dichloropropane	107		-		70-130	-		25
Bromodichloromethane	101		-		70-130	-		25
1,4-Dioxane	105		-		70-130	-		25
Trichloroethene	96		-		70-130	-		25
2,2,4-Trimethylpentane	116		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG973265-3								
cis-1,3-Dichloropropene	108		-		70-130	-		25
4-Methyl-2-pentanone	122		-		70-130	-		25
trans-1,3-Dichloropropene	92		-		70-130	-		25
1,1,2-Trichloroethane	102		-		70-130	-		25
Toluene	83		-		70-130	-		25
2-Hexanone	102		-		70-130	-		25
Dibromochloromethane	78		-		70-130	-		25
1,2-Dibromoethane	83		-		70-130	-		25
Tetrachloroethene	73		-		70-130	-		25
1,1,1,2-Tetrachloroethane	73		-		70-130	-		25
Chlorobenzene	84		-		70-130	-		25
Ethylbenzene	83		-		70-130	-		25
p/m-Xylene	85		-		70-130	-		25
Bromoform	72		-		70-130	-		25
Styrene	85		-		70-130	-		25
1,1,2,2-Tetrachloroethane	89		-		70-130	-		25
o-Xylene	87		-		70-130	-		25
1,2,3-Trichloropropane[1]	81		-		70-130	-		25
Isopropylbenzene	80		-		70-130	-		25
Bromobenzene[1]	84		-		70-130	-		25
4-Ethyltoluene	80		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1702331

Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG973265-3								
1,3,5-Trimethylbenzene	87		-		70-130	-		25
1,2,4-Trimethylbenzene	91		-		70-130	-		25
Benzyl chloride	80		-		70-130	-		25
1,3-Dichlorobenzene	87		-		70-130	-		25
1,4-Dichlorobenzene	86		-		70-130	-		25
sec-Butylbenzene	83		-		70-130	-		25
p-Isopropyltoluene	76		-		70-130	-		25
1,2-Dichlorobenzene	86		-		70-130	-		25
n-Butylbenzene	89		-		70-130	-		25
1,2,4-Trichlorobenzene	97		-		70-130	-		25
Naphthalene	95		-		70-130	-		25
1,2,3-Trichlorobenzene	85		-		70-130	-		25
Hexachlorobutadiene	85		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG973687-3								
Chlorodifluoromethane	88		-		70-130	-		
Propylene	99		-		70-130	-		
Propane	85		-		70-130	-		
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	102		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	89		-		70-130	-		
Methanol	87		-		70-130	-		
Vinyl chloride	96		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Butane	94		-		70-130	-		
Bromomethane	88		-		70-130	-		
Chloroethane	92		-		70-130	-		
Ethyl Alcohol	97		-		70-130	-		
Dichlorofluoromethane	88		-		70-130	-		
Vinyl bromide	86		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	95		-		70-130	-		
Acetonitrile	115		-		70-130	-		
Trichlorofluoromethane	79		-		70-130	-		
iso-Propyl Alcohol	101		-		70-130	-		
Acrylonitrile	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1702331

Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG973687-3								
Pentane	87		-		70-130	-		
Ethyl ether	86		-		70-130	-		
1,1-Dichloroethene	82		-		70-130	-		
tert-Butyl Alcohol	73		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	80		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	77		-		70-130	-		
trans-1,2-Dichloroethene	76		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	72		-		70-130	-		
Vinyl acetate	100		-		70-130	-		
2-Butanone	91		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
Ethyl Acetate	90		-		70-130	-		
Chloroform	80		-		70-130	-		
Tetrahydrofuran	89		-		70-130	-		
2,2-Dichloropropane	72		-		70-130	-		
1,2-Dichloroethane	82		-		70-130	-		
n-Hexane	112		-		70-130	-		
Isopropyl Ether	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG973687-3								
Ethyl-Tert-Butyl-Ether	100		-		70-130	-		
1,1,1-Trichloroethane	95		-		70-130	-		
1,1-Dichloropropene	97		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	110		-		70-130	-		
Tertiary-Amyl Methyl Ether	84		-		70-130	-		
Dibromomethane	94		-		70-130	-		
1,2-Dichloropropane	113		-		70-130	-		
Bromodichloromethane	100		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	94		-		70-130	-		
2,2,4-Trimethylpentane	117		-		70-130	-		
Methyl Methacrylate	124		-		70-130	-		
Heptane	114		-		70-130	-		
cis-1,3-Dichloropropene	108		-		70-130	-		
4-Methyl-2-pentanone	122		-		70-130	-		
trans-1,3-Dichloropropene	91		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	80		-		70-130	-		
1,3-Dichloropropane	83		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1702331

Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG973687-3								
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	78		-		70-130	-		
1,2-Dibromoethane	82		-		70-130	-		
Butyl Acetate	71		-		70-130	-		
Octane	73		-		70-130	-		
Tetrachloroethene	74		-		70-130	-		
1,1,1,2-Tetrachloroethane	75		-		70-130	-		
Chlorobenzene	84		-		70-130	-		
Ethylbenzene	81		-		70-130	-		
p/m-Xylene	84		-		70-130	-		
Bromoform	72		-		70-130	-		
Styrene	84		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	87		-		70-130	-		
1,2,3-Trichloropropane	84		-		70-130	-		
Nonane (C9)	92		-		70-130	-		
Isopropylbenzene	80		-		70-130	-		
Bromobenzene	84		-		70-130	-		
o-Chlorotoluene	79		-		70-130	-		
n-Propylbenzene	82		-		70-130	-		
p-Chlorotoluene	77		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1702331

Report Date: 01/31/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG973687-3								
4-Ethyltoluene	82		-		70-130	-		
1,3,5-Trimethylbenzene	86		-		70-130	-		
tert-Butylbenzene	81		-		70-130	-		
1,2,4-Trimethylbenzene	92		-		70-130	-		
Decane (C10)	96		-		70-130	-		
Benzyl chloride	87		-		70-130	-		
1,3-Dichlorobenzene	86		-		70-130	-		
1,4-Dichlorobenzene	85		-		70-130	-		
sec-Butylbenzene	84		-		70-130	-		
p-Isopropyltoluene	75		-		70-130	-		
1,2-Dichlorobenzene	84		-		70-130	-		
n-Butylbenzene	86		-		70-130	-		
1,2-Dibromo-3-chloropropane	88		-		70-130	-		
Undecane	102		-		70-130	-		
Dodecane (C12)	116		-		70-130	-		
1,2,4-Trichlorobenzene	94		-		70-130	-		
Naphthalene	90		-		70-130	-		
1,2,3-Trichlorobenzene	80		-		70-130	-		
Hexachlorobutadiene	84		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG973265-5 QC Sample: L1700001-117 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Acetone	12.5	12.9	ppbV	3		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	1.49	1.54	ppbV	3		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	0.104	0.108	ppbV	4		25
1,2-Dichloroethane	0.054	0.057	ppbV	5		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.284	0.293	ppbV	3		25
Carbon tetrachloride	0.067	0.071	ppbV	6		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	0.020	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG973265-5 QC Sample: L1700001-117 Client ID: DUP Sample					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.485	0.491	ppbV	1	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	0.177	0.180	ppbV	2	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.039	0.040	ppbV	3	25
p/m-Xylene	0.098	0.097	ppbV	1	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.059	0.059	ppbV	0	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	0.033	0.033	ppbV	0	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG973265-5 QC Sample: L1700001-117 Client ID: DUP Sample					
Naphthalene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG973687-5 QC Sample: L1702331-01 Client ID: FR-011717-IA-03					
Dichlorodifluoromethane	0.416	0.512	ppbV	21	25
Chloromethane	0.555	0.629	ppbV	13	25
Freon-114	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Ethanol	16.9	21.0	ppbV	22	25
Vinyl bromide	ND	ND	ppbV	NC	25
Acetone	ND	ND	ppbV	NC	25
Trichlorofluoromethane	11.8	13.5	ppbV	13	25
Isopropanol	0.886	1.12	ppbV	23	25
Tertiary butyl Alcohol	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
3-Chloropropene	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG973687-5 QC Sample: L1702331-01 Client ID: FR-011717-IA-03					
2-Butanone	0.744	0.838	ppbV	12	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	7.17	7.83	ppbV	9	25
Benzene	5.79	6.33	ppbV	9	25
Cyclohexane	1.02	1.13	ppbV	10	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	3.96	4.42	ppbV	11	25
Heptane	3.21	3.44	ppbV	7	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	38.6	37.4	ppbV	3	25
2-Hexanone	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG973687-5 QC Sample: L1702331-01 Client ID: FR-011717-IA-03					
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	3.59	3.48	ppbV	3	25
p/m-Xylene	15.6	15.1	ppbV	3	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	4.49	4.31	ppbV	4	25
4-Ethyltoluene	0.663	0.580	ppbV	13	25
1,3,5-Trimethylbenzene	0.494	0.494	ppbV	0	25
1,2,4-Trimethylbenzene	1.93	1.89	ppbV	2	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1702331

Report Date: 01/31/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1702331-01	FR-011717-IA-03	0727	Flow 3	01/16/17	234955		-	-	-	Pass	10.0	9.6	4
L1702331-01	FR-011717-IA-03	1661	6.0L Can	01/16/17	234955	L1700123-01	Pass	-29.8	-5.0	-	-	-	-
L1702331-02	FR-011717-AA	0927	Flow 3	01/16/17	234955		-	-	-	Pass	10.0	9.8	2
L1702331-02	FR-011717-AA	1869	6.0L Can	01/16/17	234955	L1700884-01	Pass	-29.9	-3.2	-	-	-	-
L1702331-03	FR-011717-IA-04	0722	Flow 5	01/16/17	234955		-	-	-	Pass	10.0	10.2	2
L1702331-03	FR-011717-IA-04	593	6.0L Can	01/16/17	234955	L1700590-02	Pass	-29.9	-3.9	-	-	-	-
L1702331-04	FR-011717-IAD	0792	Flow 3	01/16/17	234955		-	-	-	Pass	10.0	10.3	3
L1702331-04	FR-011717-IAD	696	6.0L Can	01/16/17	234955	L1700201-01	Pass	-29.6	-4.0	-	-	-	-
L1702331-05	FR-011717-IA-05	0965	Flow 5	01/16/17	234955		-	-	-	Pass	10.0	9.5	5
L1702331-05	FR-011717-IA-05	1569	6.0L Can	01/16/17	234955	L1700590-01	Pass	-29.9	-5.2	-	-	-	-
L1702331-06	FR-011717-IA-06	0961	Flow 5	01/16/17	234955		-	-	-	Pass	10.0	9.9	1
L1702331-06	FR-011717-IA-06	1633	6.0L Can	01/16/17	234955	L1700070-01	Pass	-29.9	-5.3	-	-	-	-
L1702331-07	FR-011717-IA-07	0810	Flow 3	01/16/17	234955		-	-	-	Pass	10.0	9.7	3
L1702331-07	FR-011717-IA-07	1976	6.0L Can	01/16/17	234955	L1700884-03	Pass	-29.6	-4.4	-	-	-	-
L1702331-08	FR-011717-IA-08	0729	Flow 5	01/16/17	234955		-	-	-	Pass	9.9	8.2	19

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1702331

Report Date: 01/31/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1702331-08	FR-011717-IA-08	2124	6.0L Can	01/16/17	234955	L1700123-02	Pass	-29.9	-7.4	-	-	-	-
L1702331-09	FR-011717-IA-09	0010	Flow 4	01/16/17	234955		-	-	-	Pass	9.3	9.7	4
L1702331-09	FR-011717-IA-09	1996	6.0L Can	01/16/17	234955	L1700123-03	Pass	-29.9	-1.3	-	-	-	-
L1702331-10	FR-011717-IA-10	0964	Flow 5	01/16/17	234955		-	-	-	Pass	10.0	10.0	0
L1702331-10	FR-011717-IA-10	1542	6.0L Can	01/16/17	234955	L1700070-02	Pass	-29.9	-4.8	-	-	-	-
L1702331-11	UNUSED CAN#1036	0579	Flow 3	01/16/17	234955		-	-	-	Pass	9.5	10.3	8
L1702331-11	UNUSED CAN#1036	1036	6.0L Can	01/16/17	234955	L1700201-02	Pass	-29.8	-21.9	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/04/17 19:21
Analyst: RY

Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700070

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01 Date Collected: 01/03/17 10:00

Client ID: CAN 1633 SHELF 56 Date Received: 01/03/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/04/17 19:21
Analyst: RY

Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-01
Client ID: CAN 1633 SHELF 56
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02
Client ID: CAN1542 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/04/17 19:55
Analyst: RY

Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02
Client ID: CAN1542 SHELF 57
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700070

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02 Date Collected: 01/03/17 10:00

Client ID: CAN1542 SHELF 57 Date Received: 01/03/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700070

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02 Date Collected: 01/03/17 10:00

Client ID: CAN1542 SHELF 57 Date Received: 01/03/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700070

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02 Date Collected: 01/03/17 10:00

Client ID: CAN1542 SHELF 57 Date Received: 01/03/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02
Client ID: CAN1542 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/04/17 19:55
Analyst: RY

Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02
Client ID: CAN1542 SHELF 57
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700070
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700070-02
Client ID: CAN1542 SHELF 57
Sample Location:
Date Collected: 01/03/17 10:00
Date Received: 01/03/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/04/17 22:12
Analyst: RY

Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700123

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/04/17 22:12
Analyst: RY

Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-01
Client ID: CAN 1661 SHELF 46
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/04/17 22:46
Analyst: RY

Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700123

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02 Date Collected: 01/03/17 16:00

Client ID: CAN 2124 SHELF 47 Date Received: 01/04/17

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700123

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/04/17 22:46
Analyst: RY

Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-02
Client ID: CAN 2124 SHELF 47
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/04/17 23:20
Analyst: RY

Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700123

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03 Date Collected: 01/03/17 16:00

Client ID: CAN 1996 SHELF 52 Date Received: 01/04/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	80		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/04/17 23:20
Analyst: RY

Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700123
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700123-03
Client ID: CAN 1996 SHELF 52
Sample Location:
Date Collected: 01/03/17 16:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/05/17 00:29
Analyst: RY

Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700201

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01 Date Collected: 01/04/17 10:00

Client ID: CAN 696 SHELF 42 Date Received: 01/04/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700201

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/05/17 00:29
Analyst: RY

Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:

Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-01
Client ID: CAN 696 SHELF 42
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/05/17 01:04
Analyst: RY

Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700201

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02 Date Collected: 01/04/17 10:00

Client ID: CAN 1036 SHELF 43 Date Received: 01/04/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/05/17 01:04
Analyst: RY

Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700201
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700201-02
Client ID: CAN 1036 SHELF 43
Sample Location:
Date Collected: 01/04/17 10:00
Date Received: 01/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01
Client ID: CAN 1569 SHELF 48
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/06/17 18:43
Analyst: MB

Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01
Client ID: CAN 1569 SHELF 48
Sample Location:

Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700590

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01 Date Collected: 01/06/17 10:00

Client ID: CAN 1569 SHELF 48 Date Received: 01/06/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01
Client ID: CAN 1569 SHELF 48
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01
Client ID: CAN 1569 SHELF 48
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700590

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID:	L1700590-01	Date Collected:	01/06/17 10:00
Client ID:	CAN 1569 SHELF 48	Date Received:	01/06/17
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	01/06/17 18:43		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01
Client ID: CAN 1569 SHELF 48
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-01
Client ID: CAN 1569 SHELF 48
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	101		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	102		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02
Client ID: CAN 593 SHELF 49
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/06/17 19:18
Analyst: MB

Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02
Client ID: CAN 593 SHELF 49
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700590

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02 Date Collected: 01/06/17 10:00

Client ID: CAN 593 SHELF 49 Date Received: 01/06/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02
Client ID: CAN 593 SHELF 49
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700590

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02 Date Collected: 01/06/17 10:00

Client ID: CAN 593 SHELF 49 Date Received: 01/06/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02
Client ID: CAN 593 SHELF 49
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/06/17 19:18
Analyst: MB

Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02
Client ID: CAN 593 SHELF 49
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700590
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700590-02
Client ID: CAN 593 SHELF 49
Sample Location:
Date Collected: 01/06/17 10:00
Date Received: 01/06/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/11/17 17:09
Analyst: RY

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1700884

Project Number: CANISTER QC BAT **Report Date:** 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01 Date Collected: 01/10/17 17:00

Client ID: CAN 1869 SHELF 44 Date Received: 01/11/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/11/17 17:09
Analyst: RY

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-01
Client ID: CAN 1869 SHELF 44
Sample Location:

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/11/17 18:17
Analyst: RY

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/11/17 18:17
Analyst: RY

Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1700884
Report Date: 01/31/17

Air Canister Certification Results

Lab ID: L1700884-03
Client ID: CAN 1976 SHELF 59
Sample Location:
Date Collected: 01/10/17 17:00
Date Received: 01/11/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1702331
Report Date: 01/31/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702331-01A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-02A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-03A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-04A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-05A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-06A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-07A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-08A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-09A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-10A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30),TO15-SIM(30)
L1702331-11A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	LM-FARRELL RD.	**Lab Number:**	L1702331
Project Number:	50238	**Report Date:**	01/31/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report

Project Name:	LM-FARRELL RD.	**Lab Number:**	L1702331
Project Number:	50238	**Report Date:**	01/31/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1702331
Report Date: 01/31/17

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Date Rec'd in Lab: 1/25/17

ALPHA Job #: L1702331

CHAIN OF CUSTODY

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

Client Information

Client: OBG

Address: 7600 Morgan Rd
Liverpool NY

Phone: 315-415-9803

Fax:

Email: eric.alongi@obg.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: LM- Farrell Rd

Project Location: Geddes NY

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: *(if different than Project Manager)*

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
02331.01	FR-011717-IA-03	1/17/17	0752	1537	29.80	7.29	AA	EA	6L	1661	0727	X					
.02	FR-011717-AA	1/17/17	0804	1606	28.38	5.25	AA	EA	6L	1869	0927	X					
.03	FR-011717-IA-04	1/17/17	0750	1530	29.53	4.61	AA	EA	6L	593	0722	X					
.04	FR-011717-IAD	1/17/17	0750	1530	29.88	6.20	AA	EA	6L	696	0792	X					
.05	FR-011717-IA-05	1/17/17	0756	1548	29.70	6.57	AA	EA	6L	1569	0965	X					
.06	FR-011717-IA-06	1/17/17	0754	1541	30.08	7.30	AA	EA	6L	1633	0961	X					
.07	FR-011717-IA-07	1/17/17	0753	1540	30.61	6.80	AA	EA	6L	1976	0810	X					
.08	FR-011717-IA-08	1/17/17	0755	1556	30.32	9.40	AA	EA	6L	2124	0729	X					
.09	FR-011717-IA-09	1/17/17	0757	1525	29.95	3.47	AA	EA	6L	1996	0010	X					
.10	FR-011717-IA-10	1/17/17	0758	1552	29.90	6.82	AA	EA	6L	1542	0964	X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	1/24/17 1441		1/24/17 14:41
	1/24/17 14:41		1/25/17 0130
	1/25/17 1150		1/25/17 1150

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L1726747
Client:	O'Brien & Gere Engineers 333 W. Washington Street Syracuse, NY 13021
ATTN:	Eric Alongi
Phone:	(315) 956-6674
Project Name:	LM-FARRELL RD.
Project Number:	50238
Report Date:	08/09/17

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1726747-01	FR-073117-SS-17	SOIL_VAPOR	GEDDES, NY	07/31/17 15:13	08/02/17
L1726747-02	FR-080117-SS-06	SOIL_VAPOR	GEDDES, NY	08/01/17 14:16	08/02/17
L1726747-03	FR-073117-SS-20	SOIL_VAPOR	GEDDES, NY	07/31/17 14:58	08/02/17
L1726747-04	FR-073117-SS-04	SOIL_VAPOR	GEDDES, NY	07/31/17 14:36	08/02/17
L1726747-05	FR-073117-SS-22	SOIL_VAPOR	GEDDES, NY	07/31/17 14:02	08/02/17
L1726747-06	FR-073117-SS-19	SOIL_VAPOR	GEDDES, NY	07/31/17 12:52	08/02/17
L1726747-07	FR-073117-SS-18	SOIL_VAPOR	GEDDES, NY	07/31/17 14:11	08/02/17
L1726747-08	FR-073117-SS-21	SOIL_VAPOR	GEDDES, NY	07/31/17 14:18	08/02/17
L1726747-09	FR-072717-IA-10	AIR	GEDDES, NY	07/27/17 14:07	08/02/17
L1726747-10	FR-072717-IA-06	AIR	GEDDES, NY	07/27/17 14:38	08/02/17
L1726747-11	FR-072717-IA-XX	AIR	GEDDES, NY	07/27/17 10:48	08/02/17
L1726747-12	FR-072717-AA	AIR	GEDDES, NY	07/27/17 15:54	08/02/17
L1726747-13	FR-080117-SS-14	SOIL_VAPOR	GEDDES, NY	08/01/17 14:34	08/02/17
L1726747-14	FR-080117-SS-DUP	SOIL_VAPOR	GEDDES, NY	08/01/17 14:25	08/02/17
L1726747-15	FR-080117-SS-08	SOIL_VAPOR	GEDDES, NY	08/01/17 14:25	08/02/17
L1726747-16	FR-080117-SS-05	SOIL_VAPOR	GEDDES, NY	08/01/17 13:16	08/02/17
L1726747-17	FR-080117-SS-13	SOIL_VAPOR	GEDDES, NY	08/01/17 14:05	08/02/17
L1726747-18	FR-080117-SS-12	SOIL_VAPOR	GEDDES, NY	08/01/17 13:58	08/02/17
L1726747-19	FR-080117-SS-16	SOIL_VAPOR	GEDDES, NY	08/01/17 13:45	08/02/17
L1726747-20	FR-080117-SS-15	SOIL_VAPOR	GEDDES, NY	08/01/17 13:37	08/02/17
L1726747-21	FR-072717-IA-04	AIR	GEDDES, NY	07/27/17 15:21	08/02/17
L1726747-22	FR-072717-IA-03	AIR	GEDDES, NY	07/27/17 15:17	08/02/17
L1726747-23	FR-072717-IA-05	AIR	GEDDES, NY	07/27/17 15:31	08/02/17
L1726747-24	FR-072717-IA-07	AIR	GEDDES, NY	07/27/17 15:25	08/02/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1726747-25	FR-072717-IA-08	AIR	GEDDES, NY	07/27/17 15:35	08/02/17
L1726747-26	FR-072717-IA-09	AIR	GEDDES, NY	07/27/17 15:38	08/02/17

Project Name: LM-FARRELL RD. **Lab Number:** L1726747
Project Number: 50238 **Report Date:** 08/09/17

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: LM-FARRELL RD. **Lab Number:** L1726747
Project Number: 50238 **Report Date:** 08/09/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on July 24, 2017. The canister certification results are provided as an addendum.

L1726747-02, -04, and -08: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1726747-08: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L1726747-13, -14, -15, -17, -18, -19, and -20: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1726747-13, -14, -15, -17, -18, and -20: The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

L1726747-19 and -20: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

The WG1029029-3 LCS recoveries for 1,2,4-Trichlorobenzene (137%) and Hexachlorobutadiene (134%) are above the upper 130% acceptance limit. None of the samples associated with this LCS had these compounds detected above the reporting limit therefore no further action is required.

Sample Receipt

Project Name: LM-FARRELL RD. **Lab Number:** L1726747
Project Number: 50238 **Report Date:** 08/09/17

Case Narrative (continued)

The flow controller ID number for the sample designated FR-080117-SS-12 (L1726747-18) is listed on the CoC as 1358 but should be 0109.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 08/09/17

AIR

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-01
Client ID: FR-073117-SS-17
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 20:48
Analyst: RY

Date Collected: 07/31/17 15:13
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.253	0.200	--	1.25	0.989	--		1
Chloromethane	0.208	0.200	--	0.430	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.71	1.00	--	13.6	2.38	--		1
Trichlorofluoromethane	40.0	0.200	--	225	1.12	--		1
Isopropanol	0.516	0.500	--	1.27	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.534	0.500	--	1.62	1.52	--		1
Methylene chloride	0.932	0.500	--	3.24	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.787	0.500	--	2.32	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-01
Client ID: FR-073117-SS-17
Sample Location: GEDDES, NY
Date Collected: 07/31/17 15:13
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.593	0.500	--	1.75	1.47	--		1
1,2-Dichloroethane	0.478	0.200	--	1.93	0.809	--		1
n-Hexane	1.01	0.200	--	3.56	0.705	--		1
1,1,1-Trichloroethane	3.35	0.200	--	18.3	1.09	--		1
Benzene	0.413	0.200	--	1.32	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.433	0.200	--	2.33	1.07	--		1
2,2,4-Trimethylpentane	0.313	0.200	--	1.46	0.934	--		1
Heptane	0.463	0.200	--	1.90	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.39	0.200	--	9.01	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.219	0.200	--	1.49	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.260	0.200	--	1.13	0.869	--		1
p/m-Xylene	1.30	0.400	--	5.65	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-01 Date Collected: 07/31/17 15:13

Client ID: FR-073117-SS-17 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.386	0.200	--	1.68	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	80		60-140
Bromochloromethane	133		60-140
chlorobenzene-d5	83		60-140

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-02 D
Client ID: FR-080117-SS-06
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 01:24
Analyst: RY

Date Collected: 08/01/17 14:16
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	27.3	--	ND	135	--		136.6
Chloromethane	ND	27.3	--	ND	56.4	--		136.6
Freon-114	ND	27.3	--	ND	191	--		136.6
Vinyl chloride	ND	27.3	--	ND	69.8	--		136.6
1,3-Butadiene	ND	27.3	--	ND	60.4	--		136.6
Bromomethane	ND	27.3	--	ND	106	--		136.6
Chloroethane	ND	27.3	--	ND	72.0	--		136.6
Ethanol	ND	683	--	ND	1290	--		136.6
Vinyl bromide	ND	27.3	--	ND	119	--		136.6
Acetone	ND	137	--	ND	325	--		136.6
Trichlorofluoromethane	46.7	27.3	--	262	153	--		136.6
Isopropanol	ND	68.3	--	ND	168	--		136.6
1,1-Dichloroethene	8640	27.3	--	34300	108	--		136.6
Tertiary butyl Alcohol	ND	68.3	--	ND	207	--		136.6
Methylene chloride	ND	68.3	--	ND	237	--		136.6
3-Chloropropene	ND	27.3	--	ND	85.5	--		136.6
Carbon disulfide	ND	27.3	--	ND	85.0	--		136.6
Freon-113	ND	27.3	--	ND	209	--		136.6
trans-1,2-Dichloroethene	ND	27.3	--	ND	108	--		136.6
1,1-Dichloroethane	3320	27.3	--	13400	110	--		136.6
Methyl tert butyl ether	ND	27.3	--	ND	98.4	--		136.6
2-Butanone	ND	68.3	--	ND	201	--		136.6
cis-1,2-Dichloroethene	ND	27.3	--	ND	108	--		136.6
Ethyl Acetate	ND	68.3	--	ND	246	--		136.6

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-02 D
Client ID: FR-080117-SS-06
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:16
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	27.3	--	ND	133	--		136.6
Tetrahydrofuran	ND	68.3	--	ND	201	--		136.6
1,2-Dichloroethane	ND	27.3	--	ND	110	--		136.6
n-Hexane	ND	27.3	--	ND	96.2	--		136.6
1,1,1-Trichloroethane	28.8	27.3	--	157	149	--		136.6
Benzene	ND	27.3	--	ND	87.2	--		136.6
Carbon tetrachloride	ND	27.3	--	ND	172	--		136.6
Cyclohexane	ND	27.3	--	ND	94.0	--		136.6
1,2-Dichloropropane	ND	27.3	--	ND	126	--		136.6
Bromodichloromethane	ND	27.3	--	ND	183	--		136.6
1,4-Dioxane	ND	27.3	--	ND	98.4	--		136.6
Trichloroethene	263	27.3	--	1410	147	--		136.6
2,2,4-Trimethylpentane	ND	27.3	--	ND	128	--		136.6
Heptane	ND	27.3	--	ND	112	--		136.6
cis-1,3-Dichloropropene	ND	27.3	--	ND	124	--		136.6
4-Methyl-2-pentanone	ND	68.3	--	ND	280	--		136.6
trans-1,3-Dichloropropene	ND	27.3	--	ND	124	--		136.6
1,1,2-Trichloroethane	ND	27.3	--	ND	149	--		136.6
Toluene	ND	27.3	--	ND	103	--		136.6
2-Hexanone	ND	27.3	--	ND	112	--		136.6
Dibromochloromethane	ND	27.3	--	ND	233	--		136.6
1,2-Dibromoethane	ND	27.3	--	ND	210	--		136.6
Tetrachloroethene	ND	27.3	--	ND	185	--		136.6
Chlorobenzene	ND	27.3	--	ND	126	--		136.6
Ethylbenzene	ND	27.3	--	ND	119	--		136.6
p/m-Xylene	ND	54.6	--	ND	237	--		136.6
Bromoform	ND	27.3	--	ND	282	--		136.6
Styrene	ND	27.3	--	ND	116	--		136.6

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-02 D
Client ID: FR-080117-SS-06
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:16
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	27.3	--	ND	187	--		136.6
o-Xylene	ND	27.3	--	ND	119	--		136.6
4-Ethyltoluene	ND	27.3	--	ND	134	--		136.6
1,3,5-Trimethylbenzene	ND	27.3	--	ND	134	--		136.6
1,2,4-Trimethylbenzene	ND	27.3	--	ND	134	--		136.6
Benzyl chloride	ND	27.3	--	ND	141	--		136.6
1,3-Dichlorobenzene	ND	27.3	--	ND	164	--		136.6
1,4-Dichlorobenzene	ND	27.3	--	ND	164	--		136.6
1,2-Dichlorobenzene	ND	27.3	--	ND	164	--		136.6
1,2,4-Trichlorobenzene	ND	27.3	--	ND	203	--		136.6
Hexachlorobutadiene	ND	27.3	--	ND	291	--		136.6

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	90		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-03
Client ID: FR-073117-SS-20
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 21:23
Analyst: RY

Date Collected: 07/31/17 14:58
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.215	0.200	--	1.06	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.31	1.00	--	10.2	2.38	--		1
Trichlorofluoromethane	43.0	0.200	--	242	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LM-FARRELL RD. **Lab Number:** L1726747

Project Number: 50238 **Report Date:** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-03 Date Collected: 07/31/17 14:58

Client ID: FR-073117-SS-20 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.401	0.200	--	1.41	0.705	--		1
1,1,1-Trichloroethane	3.88	0.200	--	21.2	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.27	0.200	--	4.79	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-03 Date Collected: 07/31/17 14:58

Client ID: FR-073117-SS-20 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	83		60-140
Bromochloromethane	134		60-140
chlorobenzene-d5	80		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-04 D
Client ID: FR-073117-SS-04
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 22:31
Analyst: RY

Date Collected: 07/31/17 14:36
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	2.51	0.667	--	12.4	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
Freon-114	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	ND	0.667	--	ND	1.71	--		3.333
1,3-Butadiene	ND	0.667	--	ND	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	ND	0.667	--	ND	1.76	--		3.333
Ethanol	ND	16.7	--	ND	31.5	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	ND	3.33	--	ND	7.91	--		3.333
Trichlorofluoromethane	27.3	0.667	--	153	3.75	--		3.333
Isopropanol	ND	1.67	--	ND	4.10	--		3.333
1,1-Dichloroethene	2.58	0.667	--	10.2	2.64	--		3.333
Tertiary butyl Alcohol	ND	1.67	--	ND	5.06	--		3.333
Methylene chloride	ND	1.67	--	ND	5.80	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	ND	0.667	--	ND	2.08	--		3.333
Freon-113	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
1,1-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
2-Butanone	ND	1.67	--	ND	4.93	--		3.333
cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-04 D
Client ID: FR-073117-SS-04
Sample Location: GEDDES, NY

Date Collected: 07/31/17 14:36
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	9.72	0.667	--	47.5	3.26	--		3.333
Tetrahydrofuran	ND	1.67	--	ND	4.93	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	ND	0.667	--	ND	2.35	--		3.333
1,1,1-Trichloroethane	17.8	0.667	--	97.1	3.64	--		3.333
Benzene	ND	0.667	--	ND	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	ND	0.667	--	ND	2.30	--		3.333
1,2-Dichloropropane	ND	0.667	--	ND	3.08	--		3.333
Bromodichloromethane	1.41	0.667	--	9.45	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	241	0.667	--	1300	3.58	--		3.333
2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--		3.333
Heptane	ND	0.667	--	ND	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	1.50	0.667	--	5.65	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	2.74	0.667	--	18.6	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	ND	0.667	--	ND	2.90	--		3.333
p/m-Xylene	ND	1.33	--	ND	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333
Styrene	ND	0.667	--	ND	2.84	--		3.333

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-04 D
Client ID: FR-073117-SS-04
Sample Location: GEDDES, NY

Date Collected: 07/31/17 14:36
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	ND	0.667	--	ND	2.90	--		3.333
4-Ethyltoluene	ND	0.667	--	ND	3.28	--		3.333
1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	79		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	80		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-05
Client ID: FR-073117-SS-22
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 23:07
Analyst: RY

Date Collected: 07/31/17 14:02
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.227	0.200	--	1.12	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.52	1.00	--	3.61	2.38	--		1
Trichlorofluoromethane	30.1	0.200	--	169	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.832	0.200	--	2.59	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-05 Date Collected: 07/31/17 14:02

Client ID: FR-073117-SS-22 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	4.50	0.200	--	22.0	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	3.42	0.200	--	18.7	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	0.238	0.200	--	1.50	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.334	0.200	--	2.24	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	32.6	0.200	--	175	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.498	0.200	--	1.88	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.692	0.200	--	4.69	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-05 Date Collected: 07/31/17 14:02

Client ID: FR-073117-SS-22 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	80		60-140
Bromochloromethane	134		60-140
chlorobenzene-d5	80		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-06
Client ID: FR-073117-SS-19
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 23:43
Analyst: RY

Date Collected: 07/31/17 12:52
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.523	0.200	--	2.59	0.989	--		1
Chloromethane	0.312	0.200	--	0.644	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	20.1	1.00	--	47.7	2.38	--		1
Trichlorofluoromethane	88.3	0.200	--	496	1.12	--		1
Isopropanol	1.95	0.500	--	4.79	1.23	--		1
1,1-Dichloroethene	0.318	0.200	--	1.26	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.658	0.500	--	1.94	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-06 Date Collected: 07/31/17 12:52

Client ID: FR-073117-SS-19 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.947	0.200	--	3.83	0.809	--		1
n-Hexane	0.315	0.200	--	1.11	0.705	--		1
1,1,1-Trichloroethane	1.58	0.200	--	8.62	1.09	--		1
Benzene	0.550	0.200	--	1.76	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.374	0.200	--	1.29	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.373	0.200	--	1.74	0.934	--		1
Heptane	0.324	0.200	--	1.33	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.51	0.200	--	17.0	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.259	0.200	--	1.76	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.213	0.200	--	0.925	0.869	--		1
p/m-Xylene	0.785	0.400	--	3.41	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-06 Date Collected: 07/31/17 12:52

Client ID: FR-073117-SS-19 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.342	0.200	--	1.49	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	81		60-140
Bromochloromethane	79		60-140
chlorobenzene-d5	82		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-07
Client ID: FR-073117-SS-18
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 00:18
Analyst: RY

Date Collected: 07/31/17 14:11
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.516	0.200	--	2.55	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.84	1.00	--	4.37	2.38	--		1
Trichlorofluoromethane	55.0	0.200	--	309	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.714	0.500	--	2.48	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-07 Date Collected: 07/31/17 14:11

Client ID: FR-073117-SS-18 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.209	0.200	--	0.737	0.705	--		1
1,1,1-Trichloroethane	2.07	0.200	--	11.3	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.257	0.200	--	1.38	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.90	0.200	--	7.16	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.212	0.200	--	1.44	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-07 Date Collected: 07/31/17 14:11

Client ID: FR-073117-SS-18 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	82		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	84		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-08 D
Client ID: FR-073117-SS-21
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 00:50
Analyst: RY

Date Collected: 07/31/17 14:18
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	52.2	2.00	--	293	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	1070	2.00	--	4240	7.93	--	E	10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	158	2.00	--	639	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-08 D
Client ID: FR-073117-SS-21
Sample Location: GEDDES, NY
Date Collected: 07/31/17 14:18
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	2.97	2.00	--	14.5	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	11.5	2.00	--	62.7	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	86.8	2.00	--	466	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-08 D
Client ID: FR-073117-SS-21
Sample Location: GEDDES, NY

Date Collected: 07/31/17 14:18
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	78		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	76		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-08 D2
Client ID: FR-073117-SS-21
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 10:24
Analyst: RY

Date Collected: 07/31/17 14:18
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1-Dichloroethene	1020	4.00	--	4040	15.9	--		20

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	87		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-09
Client ID: FR-072717-IA-10
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 19:23
Analyst: RY

Date Collected: 07/27/17 14:07
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.381	0.200	--	1.88	0.989	--		1
Chloromethane	0.540	0.200	--	1.12	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	12.4	1.00	--	29.5	2.38	--		1
Trichlorofluoromethane	61.8	0.200	--	347	1.12	--		1
Isopropanol	1.58	0.500	--	3.88	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.306	0.200	--	1.24	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.35	0.500	--	3.98	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	2.60	0.200	--	10.5	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-09
Client ID: FR-072717-IA-10
Sample Location: GEDDES, NY
Date Collected: 07/27/17 14:07
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.353	0.200	--	1.24	0.705	--		1
Benzene	0.894	0.200	--	2.86	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.585	0.200	--	2.73	0.934	--		1
Heptane	0.342	0.200	--	1.40	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.84	0.200	--	25.8	0.754	--		1
2-Hexanone	0.204	0.200	--	0.836	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.597	0.200	--	2.59	0.869	--		1
p/m-Xylene	2.00	0.400	--	8.69	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.413	0.200	--	1.76	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.974	0.200	--	4.23	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.579	0.200	--	2.85	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-09
Client ID: FR-072717-IA-10
Sample Location: GEDDES, NY
Date Collected: 07/27/17 14:07
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	70		60-140
Bromochloromethane	74		60-140
chlorobenzene-d5	78		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-09
Client ID: FR-072717-IA-10
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 19:23
Analyst: RY

Date Collected: 07/27/17 14:07
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.857	0.020	--	3.40	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.379	0.020	--	2.07	0.109	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	0.067	0.020	--	0.360	0.107	--		1
Tetrachloroethene	0.343	0.020	--	2.33	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	72		60-140
bromochloromethane	76		60-140
chlorobenzene-d5	78		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-10
Client ID: FR-072717-IA-06
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 19:57
Analyst: RY

Date Collected: 07/27/17 14:38
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.357	0.200	--	1.77	0.989	--		1
Chloromethane	0.508	0.200	--	1.05	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.86	1.00	--	23.4	2.38	--		1
Trichlorofluoromethane	65.7	0.200	--	369	1.12	--		1
Isopropanol	2.25	0.500	--	5.53	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.410	0.200	--	1.66	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.953	0.500	--	2.81	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.31	0.200	--	5.30	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-10
Client ID: FR-072717-IA-06
Sample Location: GEDDES, NY
Date Collected: 07/27/17 14:38
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.356	0.200	--	1.25	0.705	--		1
Benzene	0.678	0.200	--	2.17	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.789	0.200	--	3.69	0.934	--		1
Heptane	0.358	0.200	--	1.47	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.71	0.200	--	25.3	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.749	0.200	--	3.25	0.869	--		1
p/m-Xylene	2.61	0.400	--	11.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.277	0.200	--	1.18	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.14	0.200	--	4.95	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.201	0.200	--	0.988	0.983	--		1
1,2,4-Trimethylbenzene	0.770	0.200	--	3.79	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-10
Client ID: FR-072717-IA-06
Sample Location: GEDDES, NY
Date Collected: 07/27/17 14:38
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	74		60-140
Bromochloromethane	77		60-140
chlorobenzene-d5	81		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-10
Client ID: FR-072717-IA-06
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 19:57
Analyst: RY

Date Collected: 07/27/17 14:38
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.14	0.020	--	4.52	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.410	0.020	--	2.24	0.109	--		1
Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--		1
Trichloroethene	0.039	0.020	--	0.210	0.107	--		1
Tetrachloroethene	0.298	0.020	--	2.02	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	76		60-140
bromochloromethane	78		60-140
chlorobenzene-d5	80		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-11
Client ID: FR-072717-IA-XX
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 21:07
Analyst: RY

Date Collected: 07/27/17 10:48
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.315	0.200	--	1.56	0.989	--		1
Chloromethane	0.634	0.200	--	1.31	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	80.6	5.00	--	152	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	31.7	1.00	--	75.3	2.38	--		1
Trichlorofluoromethane	69.6	0.200	--	391	1.12	--		1
Isopropanol	11.7	0.500	--	28.8	1.23	--		1
Tertiary butyl Alcohol	0.790	0.500	--	2.39	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.563	0.200	--	2.28	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.33	0.500	--	3.92	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.56	0.200	--	6.31	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-11
Client ID: FR-072717-IA-XX
Sample Location: GEDDES, NY
Date Collected: 07/27/17 10:48
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	10.4	0.200	--	36.7	0.705	--		1
Benzene	3.05	0.200	--	9.74	0.639	--		1
Cyclohexane	3.28	0.200	--	11.3	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	65.8	0.200	--	307	0.934	--		1
Heptane	10.5	0.200	--	43.0	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.657	0.500	--	2.69	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	38.4	0.200	--	145	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	7.02	0.200	--	30.5	0.869	--		1
p/m-Xylene	28.3	0.400	--	123	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.523	0.200	--	2.23	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	15.9	0.200	--	69.1	0.869	--		1
4-Ethyltoluene	4.25	0.200	--	20.9	0.983	--		1
1,3,5-Trimethylbenzene	7.78	0.200	--	38.2	0.983	--		1
1,2,4-Trimethylbenzene	23.2	0.200	--	114	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-11
Client ID: FR-072717-IA-XX
Sample Location: GEDDES, NY
Date Collected: 07/27/17 10:48
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	75		60-140
chlorobenzene-d5	79		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-11
Client ID: FR-072717-IA-XX
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 21:07
Analyst: RY

Date Collected: 07/27/17 10:48
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.55	0.020	--	6.15	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	6.87	0.020	--	37.5	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	0.123	0.020	--	0.661	0.107	--		1
Tetrachloroethene	0.429	0.020	--	2.91	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	73		60-140
bromochloromethane	77		60-140
chlorobenzene-d5	78		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-12
Client ID: FR-072717-AA
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 21:42
Analyst: RY

Date Collected: 07/27/17 15:54
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.305	0.200	--	1.51	0.989	--		1
Chloromethane	0.448	0.200	--	0.925	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.78	1.00	--	8.98	2.38	--		1
Trichlorofluoromethane	0.255	0.200	--	1.43	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-12 Date Collected: 07/27/17 15:54

Client ID: FR-072717-AA Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.16	0.200	--	4.37	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-12
Client ID: FR-072717-AA
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:54
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	77		60-140
Bromochloromethane	72		60-140
chlorobenzene-d5	77		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-12
Client ID: FR-072717-AA
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 21:42
Analyst: RY

Date Collected: 07/27/17 15:54
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.059	0.020	--	0.371	0.126	--		1
Trichloroethene	0.039	0.020	--	0.210	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	78		60-140
bromochloromethane	72		60-140
chlorobenzene-d5	77		60-140

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-13 D
Client ID: FR-080117-SS-14
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 04:02
Analyst: MB

Date Collected: 08/01/17 14:34
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	29.9	--	ND	148	--		149.7
Chloromethane	ND	29.9	--	ND	61.7	--		149.7
Freon-114	ND	29.9	--	ND	209	--		149.7
Vinyl chloride	ND	29.9	--	ND	76.4	--		149.7
1,3-Butadiene	ND	29.9	--	ND	66.1	--		149.7
Bromomethane	ND	29.9	--	ND	116	--		149.7
Chloroethane	586	29.9	--	1550	78.9	--		149.7
Ethanol	ND	748	--	ND	1410	--		149.7
Vinyl bromide	ND	29.9	--	ND	131	--		149.7
Acetone	ND	150.	--	ND	356	--		149.7
Trichlorofluoromethane	61.8	29.9	--	347	168	--		149.7
Isopropanol	ND	74.8	--	ND	184	--		149.7
1,1-Dichloroethene	8060	29.9	--	32000	119	--		149.7
Tertiary butyl Alcohol	ND	74.8	--	ND	227	--		149.7
Methylene chloride	ND	74.8	--	ND	260	--		149.7
3-Chloropropene	ND	29.9	--	ND	93.6	--		149.7
Carbon disulfide	ND	29.9	--	ND	93.1	--		149.7
Freon-113	ND	29.9	--	ND	229	--		149.7
trans-1,2-Dichloroethene	ND	29.9	--	ND	119	--		149.7
1,1-Dichloroethane	7370	29.9	--	29800	121	--		149.7
Methyl tert butyl ether	ND	29.9	--	ND	108	--		149.7
2-Butanone	ND	74.8	--	ND	221	--		149.7
cis-1,2-Dichloroethene	ND	29.9	--	ND	119	--		149.7
Ethyl Acetate	ND	74.8	--	ND	270	--		149.7

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-13 D
Client ID: FR-080117-SS-14
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:34
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	29.9	--	ND	146	--		149.7
Tetrahydrofuran	ND	74.8	--	ND	221	--		149.7
1,2-Dichloroethane	ND	29.9	--	ND	121	--		149.7
n-Hexane	ND	29.9	--	ND	105	--		149.7
1,1,1-Trichloroethane	2710	29.9	--	14800	163	--		149.7
Benzene	ND	29.9	--	ND	95.5	--		149.7
Carbon tetrachloride	ND	29.9	--	ND	188	--		149.7
Cyclohexane	ND	29.9	--	ND	103	--		149.7
1,2-Dichloropropane	ND	29.9	--	ND	138	--		149.7
Bromodichloromethane	ND	29.9	--	ND	200	--		149.7
1,4-Dioxane	ND	29.9	--	ND	108	--		149.7
Trichloroethene	53.9	29.9	--	290	161	--		149.7
2,2,4-Trimethylpentane	ND	29.9	--	ND	140	--		149.7
Heptane	ND	29.9	--	ND	123	--		149.7
cis-1,3-Dichloropropene	ND	29.9	--	ND	136	--		149.7
4-Methyl-2-pentanone	ND	74.8	--	ND	307	--		149.7
trans-1,3-Dichloropropene	ND	29.9	--	ND	136	--		149.7
1,1,2-Trichloroethane	ND	29.9	--	ND	163	--		149.7
Toluene	ND	29.9	--	ND	113	--		149.7
2-Hexanone	ND	29.9	--	ND	123	--		149.7
Dibromochloromethane	ND	29.9	--	ND	255	--		149.7
1,2-Dibromoethane	ND	29.9	--	ND	230	--		149.7
Tetrachloroethene	ND	29.9	--	ND	203	--		149.7
Chlorobenzene	ND	29.9	--	ND	138	--		149.7
Ethylbenzene	ND	29.9	--	ND	130	--		149.7
p/m-Xylene	ND	59.9	--	ND	260	--		149.7
Bromoform	ND	29.9	--	ND	309	--		149.7
Styrene	ND	29.9	--	ND	127	--		149.7

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-13 D
Client ID: FR-080117-SS-14
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:34
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	29.9	--	ND	205	--		149.7
o-Xylene	ND	29.9	--	ND	130	--		149.7
4-Ethyltoluene	ND	29.9	--	ND	147	--		149.7
1,3,5-Trimethylbenzene	ND	29.9	--	ND	147	--		149.7
1,2,4-Trimethylbenzene	ND	29.9	--	ND	147	--		149.7
Benzyl chloride	ND	29.9	--	ND	155	--		149.7
1,3-Dichlorobenzene	ND	29.9	--	ND	180	--		149.7
1,4-Dichlorobenzene	ND	29.9	--	ND	180	--		149.7
1,2-Dichlorobenzene	ND	29.9	--	ND	180	--		149.7
1,2,4-Trichlorobenzene	ND	29.9	--	ND	222	--		149.7
Hexachlorobutadiene	ND	29.9	--	ND	319	--		149.7

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	95		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	97		60-140

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-14 D
Client ID: FR-080117-SS-DUP
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 02:49
Analyst: MB

Date Collected: 08/01/17 14:25
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	3.70	--	ND	18.3	--		18.52
Chloromethane	ND	3.70	--	ND	7.64	--		18.52
Freon-114	ND	3.70	--	ND	25.9	--		18.52
Vinyl chloride	ND	3.70	--	ND	9.46	--		18.52
1,3-Butadiene	ND	3.70	--	ND	8.19	--		18.52
Bromomethane	ND	3.70	--	ND	14.4	--		18.52
Chloroethane	175	3.70	--	462	9.76	--		18.52
Ethanol	ND	92.6	--	ND	174	--		18.52
Vinyl bromide	ND	3.70	--	ND	16.2	--		18.52
Acetone	ND	18.5	--	ND	43.9	--		18.52
Trichlorofluoromethane	82.6	3.70	--	464	20.8	--		18.52
Isopropanol	ND	9.26	--	ND	22.8	--		18.52
1,1-Dichloroethene	1200	3.70	--	4760	14.7	--		18.52
Tertiary butyl Alcohol	ND	9.26	--	ND	28.1	--		18.52
Methylene chloride	ND	9.26	--	ND	32.2	--		18.52
3-Chloropropene	ND	3.70	--	ND	11.6	--		18.52
Carbon disulfide	ND	3.70	--	ND	11.5	--		18.52
Freon-113	ND	3.70	--	ND	28.4	--		18.52
trans-1,2-Dichloroethene	ND	3.70	--	ND	14.7	--		18.52
1,1-Dichloroethane	695	3.70	--	2810	15.0	--		18.52
Methyl tert butyl ether	ND	3.70	--	ND	13.3	--		18.52
2-Butanone	ND	9.26	--	ND	27.3	--		18.52
cis-1,2-Dichloroethene	ND	3.70	--	ND	14.7	--		18.52
Ethyl Acetate	ND	9.26	--	ND	33.4	--		18.52

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-14 D
Client ID: FR-080117-SS-DUP
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:25
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	3.70	--	ND	18.1	--		18.52
Tetrahydrofuran	ND	9.26	--	ND	27.3	--		18.52
1,2-Dichloroethane	ND	3.70	--	ND	15.0	--		18.52
n-Hexane	ND	3.70	--	ND	13.0	--		18.52
1,1,1-Trichloroethane	723	3.70	--	3940	20.2	--		18.52
Benzene	ND	3.70	--	ND	11.8	--		18.52
Carbon tetrachloride	ND	3.70	--	ND	23.3	--		18.52
Cyclohexane	ND	3.70	--	ND	12.7	--		18.52
1,2-Dichloropropane	ND	3.70	--	ND	17.1	--		18.52
Bromodichloromethane	ND	3.70	--	ND	24.8	--		18.52
1,4-Dioxane	ND	3.70	--	ND	13.3	--		18.52
Trichloroethene	7.74	3.70	--	41.6	19.9	--		18.52
2,2,4-Trimethylpentane	ND	3.70	--	ND	17.3	--		18.52
Heptane	ND	3.70	--	ND	15.2	--		18.52
cis-1,3-Dichloropropene	ND	3.70	--	ND	16.8	--		18.52
4-Methyl-2-pentanone	ND	9.26	--	ND	37.9	--		18.52
trans-1,3-Dichloropropene	ND	3.70	--	ND	16.8	--		18.52
1,1,2-Trichloroethane	ND	3.70	--	ND	20.2	--		18.52
Toluene	4.93	3.70	--	18.6	13.9	--		18.52
2-Hexanone	ND	3.70	--	ND	15.2	--		18.52
Dibromochloromethane	ND	3.70	--	ND	31.5	--		18.52
1,2-Dibromoethane	ND	3.70	--	ND	28.4	--		18.52
Tetrachloroethene	8.06	3.70	--	54.7	25.1	--		18.52
Chlorobenzene	ND	3.70	--	ND	17.0	--		18.52
Ethylbenzene	ND	3.70	--	ND	16.1	--		18.52
p/m-Xylene	ND	7.41	--	ND	32.2	--		18.52
Bromoform	ND	3.70	--	ND	38.3	--		18.52
Styrene	ND	3.70	--	ND	15.8	--		18.52

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-14 D
Client ID: FR-080117-SS-DUP
Sample Location: GEDDES, NY
Date Collected: 08/01/17 14:25
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	3.70	--	ND	25.4	--		18.52
o-Xylene	ND	3.70	--	ND	16.1	--		18.52
4-Ethyltoluene	ND	3.70	--	ND	18.2	--		18.52
1,3,5-Trimethylbenzene	ND	3.70	--	ND	18.2	--		18.52
1,2,4-Trimethylbenzene	ND	3.70	--	ND	18.2	--		18.52
Benzyl chloride	ND	3.70	--	ND	19.2	--		18.52
1,3-Dichlorobenzene	ND	3.70	--	ND	22.2	--		18.52
1,4-Dichlorobenzene	ND	3.70	--	ND	22.2	--		18.52
1,2-Dichlorobenzene	ND	3.70	--	ND	22.2	--		18.52
1,2,4-Trichlorobenzene	ND	3.70	--	ND	27.5	--		18.52
Hexachlorobutadiene	ND	3.70	--	ND	39.5	--		18.52

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-15 D
Client ID: FR-080117-SS-08
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 03:25
Analyst: MB

Date Collected: 08/01/17 14:25
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	3.48	--	ND	17.2	--		17.39
Chloromethane	ND	3.48	--	ND	7.19	--		17.39
Freon-114	ND	3.48	--	ND	24.3	--		17.39
Vinyl chloride	ND	3.48	--	ND	8.90	--		17.39
1,3-Butadiene	ND	3.48	--	ND	7.70	--		17.39
Bromomethane	ND	3.48	--	ND	13.5	--		17.39
Chloroethane	164	3.48	--	433	9.18	--		17.39
Ethanol	ND	86.9	--	ND	164	--		17.39
Vinyl bromide	ND	3.48	--	ND	15.2	--		17.39
Acetone	ND	17.4	--	ND	41.3	--		17.39
Trichlorofluoromethane	82.8	3.48	--	465	19.6	--		17.39
Isopropanol	ND	8.69	--	ND	21.4	--		17.39
1,1-Dichloroethene	1130	3.48	--	4480	13.8	--		17.39
Tertiary butyl Alcohol	ND	8.69	--	ND	26.3	--		17.39
Methylene chloride	ND	8.69	--	ND	30.2	--		17.39
3-Chloropropene	ND	3.48	--	ND	10.9	--		17.39
Carbon disulfide	ND	3.48	--	ND	10.8	--		17.39
Freon-113	ND	3.48	--	ND	26.7	--		17.39
trans-1,2-Dichloroethene	ND	3.48	--	ND	13.8	--		17.39
1,1-Dichloroethane	652	3.48	--	2640	14.1	--		17.39
Methyl tert butyl ether	ND	3.48	--	ND	12.5	--		17.39
2-Butanone	ND	8.69	--	ND	25.6	--		17.39
cis-1,2-Dichloroethene	ND	3.48	--	ND	13.8	--		17.39
Ethyl Acetate	ND	8.69	--	ND	31.3	--		17.39

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-15 D
Client ID: FR-080117-SS-08
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:25
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	3.48	--	ND	17.0	--		17.39
Tetrahydrofuran	ND	8.69	--	ND	25.6	--		17.39
1,2-Dichloroethane	ND	3.48	--	ND	14.1	--		17.39
n-Hexane	ND	3.48	--	ND	12.3	--		17.39
1,1,1-Trichloroethane	688	3.48	--	3750	19.0	--		17.39
Benzene	ND	3.48	--	ND	11.1	--		17.39
Carbon tetrachloride	ND	3.48	--	ND	21.9	--		17.39
Cyclohexane	ND	3.48	--	ND	12.0	--		17.39
1,2-Dichloropropane	ND	3.48	--	ND	16.1	--		17.39
Bromodichloromethane	ND	3.48	--	ND	23.3	--		17.39
1,4-Dioxane	ND	3.48	--	ND	12.5	--		17.39
Trichloroethene	7.25	3.48	--	39.0	18.7	--		17.39
2,2,4-Trimethylpentane	ND	3.48	--	ND	16.3	--		17.39
Heptane	ND	3.48	--	ND	14.3	--		17.39
cis-1,3-Dichloropropene	ND	3.48	--	ND	15.8	--		17.39
4-Methyl-2-pentanone	ND	8.69	--	ND	35.6	--		17.39
trans-1,3-Dichloropropene	ND	3.48	--	ND	15.8	--		17.39
1,1,2-Trichloroethane	ND	3.48	--	ND	19.0	--		17.39
Toluene	5.02	3.48	--	18.9	13.1	--		17.39
2-Hexanone	ND	3.48	--	ND	14.3	--		17.39
Dibromochloromethane	ND	3.48	--	ND	29.6	--		17.39
1,2-Dibromoethane	ND	3.48	--	ND	26.7	--		17.39
Tetrachloroethene	7.49	3.48	--	50.8	23.6	--		17.39
Chlorobenzene	ND	3.48	--	ND	16.0	--		17.39
Ethylbenzene	ND	3.48	--	ND	15.1	--		17.39
p/m-Xylene	ND	6.95	--	ND	30.2	--		17.39
Bromoform	ND	3.48	--	ND	36.0	--		17.39
Styrene	ND	3.48	--	ND	14.8	--		17.39

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-15 D
Client ID: FR-080117-SS-08
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:25
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	3.48	--	ND	23.9	--		17.39
o-Xylene	ND	3.48	--	ND	15.1	--		17.39
4-Ethyltoluene	ND	3.48	--	ND	17.1	--		17.39
1,3,5-Trimethylbenzene	ND	3.48	--	ND	17.1	--		17.39
1,2,4-Trimethylbenzene	ND	3.48	--	ND	17.1	--		17.39
Benzyl chloride	ND	3.48	--	ND	18.0	--		17.39
1,3-Dichlorobenzene	ND	3.48	--	ND	20.9	--		17.39
1,4-Dichlorobenzene	ND	3.48	--	ND	20.9	--		17.39
1,2-Dichlorobenzene	ND	3.48	--	ND	20.9	--		17.39
1,2,4-Trichlorobenzene	ND	3.48	--	ND	25.8	--		17.39
Hexachlorobutadiene	ND	3.48	--	ND	37.1	--		17.39

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-16
Client ID: FR-080117-SS-05
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 00:58
Analyst: MB

Date Collected: 08/01/17 13:16
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.621	0.200	--	3.07	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.50	1.00	--	5.94	2.38	--		1
Trichlorofluoromethane	71.1	0.200	--	400	1.12	--		1
Isopropanol	0.854	0.500	--	2.10	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-16
Client ID: FR-080117-SS-05
Sample Location: GEDDES, NY
Date Collected: 08/01/17 13:16
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.534	0.200	--	2.61	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	3.47	0.200	--	18.9	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.25	0.200	--	4.71	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.638	0.200	--	4.33	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-16 Date Collected: 08/01/17 13:16

Client ID: FR-080117-SS-05 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-17 D
Client ID: FR-080117-SS-13
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 02:13
Analyst: MB

Date Collected: 08/01/17 14:05
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	57.1	2.00	--	321	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	518	2.00	--	2050	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	105	2.00	--	425	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-17 D
Client ID: FR-080117-SS-13
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:05
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	86.1	2.00	--	470	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	4.17	2.00	--	28.3	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-17 D
Client ID: FR-080117-SS-13
Sample Location: GEDDES, NY

Date Collected: 08/01/17 14:05
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-18 D
Client ID: FR-080117-SS-12
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 04:40
Analyst: MB

Date Collected: 08/01/17 13:58
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	7.23	--	ND	35.8	--		36.13
Chloromethane	ND	7.23	--	ND	14.9	--		36.13
Freon-114	ND	7.23	--	ND	50.5	--		36.13
Vinyl chloride	ND	7.23	--	ND	18.5	--		36.13
1,3-Butadiene	ND	7.23	--	ND	16.0	--		36.13
Bromomethane	ND	7.23	--	ND	28.1	--		36.13
Chloroethane	ND	7.23	--	ND	19.1	--		36.13
Ethanol	ND	181	--	ND	341	--		36.13
Vinyl bromide	ND	7.23	--	ND	31.6	--		36.13
Acetone	ND	36.1	--	ND	85.8	--		36.13
Trichlorofluoromethane	38.3	7.23	--	215	40.6	--		36.13
Isopropanol	ND	18.1	--	ND	44.5	--		36.13
1,1-Dichloroethene	2190	7.23	--	8680	28.7	--		36.13
Tertiary butyl Alcohol	ND	18.1	--	ND	54.9	--		36.13
Methylene chloride	ND	18.1	--	ND	62.9	--		36.13
3-Chloropropene	ND	7.23	--	ND	22.6	--		36.13
Carbon disulfide	ND	7.23	--	ND	22.5	--		36.13
Freon-113	ND	7.23	--	ND	55.4	--		36.13
trans-1,2-Dichloroethene	ND	7.23	--	ND	28.7	--		36.13
1,1-Dichloroethane	425	7.23	--	1720	29.3	--		36.13
Methyl tert butyl ether	ND	7.23	--	ND	26.1	--		36.13
2-Butanone	ND	18.1	--	ND	53.4	--		36.13
cis-1,2-Dichloroethene	ND	7.23	--	ND	28.7	--		36.13
Ethyl Acetate	ND	18.1	--	ND	65.2	--		36.13

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-18 D Date Collected: 08/01/17 13:58

Client ID: FR-080117-SS-12 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	7.23	--	ND	35.3	--		36.13
Tetrahydrofuran	ND	18.1	--	ND	53.4	--		36.13
1,2-Dichloroethane	ND	7.23	--	ND	29.3	--		36.13
n-Hexane	ND	7.23	--	ND	25.5	--		36.13
1,1,1-Trichloroethane	57.5	7.23	--	314	39.4	--		36.13
Benzene	ND	7.23	--	ND	23.1	--		36.13
Carbon tetrachloride	ND	7.23	--	ND	45.5	--		36.13
Cyclohexane	ND	7.23	--	ND	24.9	--		36.13
1,2-Dichloropropane	ND	7.23	--	ND	33.4	--		36.13
Bromodichloromethane	ND	7.23	--	ND	48.4	--		36.13
1,4-Dioxane	ND	7.23	--	ND	26.1	--		36.13
Trichloroethene	18.6	7.23	--	100	38.9	--		36.13
2,2,4-Trimethylpentane	ND	7.23	--	ND	33.8	--		36.13
Heptane	ND	7.23	--	ND	29.6	--		36.13
cis-1,3-Dichloropropene	ND	7.23	--	ND	32.8	--		36.13
4-Methyl-2-pentanone	ND	18.1	--	ND	74.2	--		36.13
trans-1,3-Dichloropropene	ND	7.23	--	ND	32.8	--		36.13
1,1,2-Trichloroethane	ND	7.23	--	ND	39.4	--		36.13
Toluene	ND	7.23	--	ND	27.2	--		36.13
2-Hexanone	ND	7.23	--	ND	29.6	--		36.13
Dibromochloromethane	ND	7.23	--	ND	61.6	--		36.13
1,2-Dibromoethane	ND	7.23	--	ND	55.6	--		36.13
Tetrachloroethene	ND	7.23	--	ND	49.0	--		36.13
Chlorobenzene	ND	7.23	--	ND	33.3	--		36.13
Ethylbenzene	ND	7.23	--	ND	31.4	--		36.13
p/m-Xylene	ND	14.4	--	ND	62.5	--		36.13
Bromoform	ND	7.23	--	ND	74.8	--		36.13
Styrene	ND	7.23	--	ND	30.8	--		36.13

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-18 D Date Collected: 08/01/17 13:58

Client ID: FR-080117-SS-12 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	7.23	--	ND	49.6	--		36.13
o-Xylene	ND	7.23	--	ND	31.4	--		36.13
4-Ethyltoluene	ND	7.23	--	ND	35.5	--		36.13
1,3,5-Trimethylbenzene	ND	7.23	--	ND	35.5	--		36.13
1,2,4-Trimethylbenzene	ND	7.23	--	ND	35.5	--		36.13
Benzyl chloride	ND	7.23	--	ND	37.4	--		36.13
1,3-Dichlorobenzene	ND	7.23	--	ND	43.5	--		36.13
1,4-Dichlorobenzene	ND	7.23	--	ND	43.5	--		36.13
1,2-Dichlorobenzene	ND	7.23	--	ND	43.5	--		36.13
1,2,4-Trichlorobenzene	ND	7.23	--	ND	53.7	--		36.13
Hexachlorobutadiene	ND	7.23	--	ND	77.1	--		36.13

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	93		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-19 D
Client ID: FR-080117-SS-16
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 05:16
Analyst: MB

Date Collected: 08/01/17 13:45
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	178.	--	ND	880	--		892.9
Chloromethane	ND	178.	--	ND	368	--		892.9
Freon-114	ND	178.	--	ND	1240	--		892.9
Vinyl chloride	ND	178.	--	ND	455	--		892.9
1,3-Butadiene	ND	178.	--	ND	394	--		892.9
Bromomethane	ND	178.	--	ND	691	--		892.9
Chloroethane	286	178	--	755	470	--		892.9
Ethanol	ND	4460	--	ND	8400	--		892.9
Vinyl bromide	ND	178.	--	ND	778	--		892.9
Acetone	ND	893	--	ND	2120	--		892.9
Trichlorofluoromethane	ND	178	--	ND	1000	--		892.9
Isopropanol	ND	446	--	ND	1100	--		892.9
1,1-Dichloroethene	12700	178	--	50400	706	--		892.9
Tertiary butyl Alcohol	ND	446.	--	ND	1350	--		892.9
Methylene chloride	ND	446.	--	ND	1550	--		892.9
3-Chloropropene	ND	178.	--	ND	557	--		892.9
Carbon disulfide	ND	178.	--	ND	554	--		892.9
Freon-113	ND	178.	--	ND	1360	--		892.9
trans-1,2-Dichloroethene	ND	178.	--	ND	706	--		892.9
1,1-Dichloroethane	3790	178	--	15300	720	--		892.9
Methyl tert butyl ether	ND	178.	--	ND	642	--		892.9
2-Butanone	ND	446.	--	ND	1320	--		892.9
cis-1,2-Dichloroethene	ND	178.	--	ND	706	--		892.9
Ethyl Acetate	ND	446.	--	ND	1610	--		892.9

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-19 D
Client ID: FR-080117-SS-16
Sample Location: GEDDES, NY

Date Collected: 08/01/17 13:45
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	178.	--	ND	869	--		892.9
Tetrahydrofuran	ND	446.	--	ND	1320	--		892.9
1,2-Dichloroethane	ND	178.	--	ND	720	--		892.9
n-Hexane	ND	178.	--	ND	627	--		892.9
1,1,1-Trichloroethane	89900	178	--	490000	971	--	E	892.9
Benzene	ND	178.	--	ND	569	--		892.9
Carbon tetrachloride	ND	178.	--	ND	1120	--		892.9
Cyclohexane	ND	178.	--	ND	613	--		892.9
1,2-Dichloropropane	ND	178.	--	ND	823	--		892.9
Bromodichloromethane	ND	178.	--	ND	1190	--		892.9
1,4-Dioxane	ND	178.	--	ND	641	--		892.9
Trichloroethene	ND	178	--	ND	957	--		892.9
2,2,4-Trimethylpentane	ND	178.	--	ND	831	--		892.9
Heptane	ND	178.	--	ND	729	--		892.9
cis-1,3-Dichloropropene	ND	178.	--	ND	808	--		892.9
4-Methyl-2-pentanone	ND	446	--	ND	1830	--		892.9
trans-1,3-Dichloropropene	ND	178.	--	ND	808	--		892.9
1,1,2-Trichloroethane	ND	178.	--	ND	971	--		892.9
Toluene	ND	178.	--	ND	671	--		892.9
2-Hexanone	ND	178.	--	ND	729	--		892.9
Dibromochloromethane	ND	178.	--	ND	1520	--		892.9
1,2-Dibromoethane	ND	178.	--	ND	1370	--		892.9
Tetrachloroethene	937	178	--	6350	1210	--		892.9
Chlorobenzene	ND	178.	--	ND	820	--		892.9
Ethylbenzene	ND	178.	--	ND	773	--		892.9
p/m-Xylene	ND	357.	--	ND	1550	--		892.9
Bromoform	ND	178.	--	ND	1840	--		892.9
Styrene	ND	178.	--	ND	758	--		892.9

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-19 D
Client ID: FR-080117-SS-16
Sample Location: GEDDES, NY

Date Collected: 08/01/17 13:45
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	178.	--	ND	1220	--		892.9
o-Xylene	ND	178.	--	ND	773	--		892.9
4-Ethyltoluene	ND	178.	--	ND	875	--		892.9
1,3,5-Trimethylbenzene	ND	178.	--	ND	875	--		892.9
1,2,4-Trimethylbenzene	ND	178.	--	ND	875	--		892.9
Benzyl chloride	ND	178.	--	ND	922	--		892.9
1,3-Dichlorobenzene	ND	178.	--	ND	1070	--		892.9
1,4-Dichlorobenzene	ND	178.	--	ND	1070	--		892.9
1,2-Dichlorobenzene	ND	178.	--	ND	1070	--		892.9
1,2,4-Trichlorobenzene	ND	178.	--	ND	1320	--		892.9
Hexachlorobutadiene	ND	178.	--	ND	1900	--		892.9

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	92		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	92		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-19 D2
Client ID: FR-080117-SS-16
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 09:31
Analyst: MB

Date Collected: 08/01/17 13:45
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,1-Trichloroethane	90400	357	--	493000	1950	--		1786

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	99		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	98		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-20 D
Client ID: FR-080117-SS-15
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 05:55
Analyst: MB

Date Collected: 08/01/17 13:37
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	7.35	--	ND	36.3	--		36.76
Chloromethane	ND	7.35	--	ND	15.2	--		36.76
Freon-114	ND	7.35	--	ND	51.4	--		36.76
Vinyl chloride	14.0	7.35	--	35.8	18.8	--		36.76
1,3-Butadiene	ND	7.35	--	ND	16.3	--		36.76
Bromomethane	ND	7.35	--	ND	28.5	--		36.76
Chloroethane	2800	7.35	--	7390	19.4	--		36.76
Ethanol	ND	184	--	ND	347	--		36.76
Vinyl bromide	ND	7.35	--	ND	32.1	--		36.76
Acetone	ND	36.8	--	ND	87.4	--		36.76
Trichlorofluoromethane	54.9	7.35	--	309	41.3	--		36.76
Isopropanol	ND	18.4	--	ND	45.2	--		36.76
1,1-Dichloroethene	13500	7.35	--	53500	29.1	--	E	36.76
Tertiary butyl Alcohol	ND	18.4	--	ND	55.8	--		36.76
Methylene chloride	ND	18.4	--	ND	63.9	--		36.76
3-Chloropropene	ND	7.35	--	ND	23.0	--		36.76
Carbon disulfide	ND	7.35	--	ND	22.9	--		36.76
Freon-113	ND	7.35	--	ND	56.3	--		36.76
trans-1,2-Dichloroethene	ND	7.35	--	ND	29.1	--		36.76
1,1-Dichloroethane	13200	7.35	--	53400	29.7	--	E	36.76
Methyl tert butyl ether	ND	7.35	--	ND	26.5	--		36.76
2-Butanone	ND	18.4	--	ND	54.3	--		36.76
cis-1,2-Dichloroethene	9.56	7.35	--	37.9	29.1	--		36.76
Ethyl Acetate	ND	18.4	--	ND	66.3	--		36.76

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-20 D
Client ID: FR-080117-SS-15
Sample Location: GEDDES, NY

Date Collected: 08/01/17 13:37
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	37.2	7.35	--	182	35.9	--		36.76
Tetrahydrofuran	ND	18.4	--	ND	54.3	--		36.76
1,2-Dichloroethane	22.3	7.35	--	90.3	29.7	--		36.76
n-Hexane	ND	7.35	--	ND	25.9	--		36.76
1,1,1-Trichloroethane	7650	7.35	--	41700	40.1	--	E	36.76
Benzene	20.6	7.35	--	65.8	23.5	--		36.76
Carbon tetrachloride	ND	7.35	--	ND	46.2	--		36.76
Cyclohexane	ND	7.35	--	ND	25.3	--		36.76
1,2-Dichloropropane	ND	7.35	--	ND	34.0	--		36.76
Bromodichloromethane	ND	7.35	--	ND	49.2	--		36.76
1,4-Dioxane	ND	7.35	--	ND	26.5	--		36.76
Trichloroethene	209	7.35	--	1120	39.5	--		36.76
2,2,4-Trimethylpentane	ND	7.35	--	ND	34.3	--		36.76
Heptane	ND	7.35	--	ND	30.1	--		36.76
cis-1,3-Dichloropropene	ND	7.35	--	ND	33.4	--		36.76
4-Methyl-2-pentanone	ND	18.4	--	ND	75.4	--		36.76
trans-1,3-Dichloropropene	ND	7.35	--	ND	33.4	--		36.76
1,1,2-Trichloroethane	25.2	7.35	--	137	40.1	--		36.76
Toluene	ND	7.35	--	ND	27.7	--		36.76
2-Hexanone	ND	7.35	--	ND	30.1	--		36.76
Dibromochloromethane	ND	7.35	--	ND	62.6	--		36.76
1,2-Dibromoethane	ND	7.35	--	ND	56.5	--		36.76
Tetrachloroethene	173	7.35	--	1170	49.8	--		36.76
Chlorobenzene	ND	7.35	--	ND	33.8	--		36.76
Ethylbenzene	ND	7.35	--	ND	31.9	--		36.76
p/m-Xylene	ND	14.7	--	ND	63.9	--		36.76
Bromoform	ND	7.35	--	ND	76.0	--		36.76
Styrene	ND	7.35	--	ND	31.3	--		36.76

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-20 D
Client ID: FR-080117-SS-15
Sample Location: GEDDES, NY

Date Collected: 08/01/17 13:37
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	7.35	--	ND	50.5	--		36.76
o-Xylene	ND	7.35	--	ND	31.9	--		36.76
4-Ethyltoluene	ND	7.35	--	ND	36.1	--		36.76
1,3,5-Trimethylbenzene	ND	7.35	--	ND	36.1	--		36.76
1,2,4-Trimethylbenzene	ND	7.35	--	ND	36.1	--		36.76
Benzyl chloride	ND	7.35	--	ND	38.1	--		36.76
1,3-Dichlorobenzene	ND	7.35	--	ND	44.2	--		36.76
1,4-Dichlorobenzene	ND	7.35	--	ND	44.2	--		36.76
1,2-Dichlorobenzene	ND	7.35	--	ND	44.2	--		36.76
1,2,4-Trichlorobenzene	ND	7.35	--	ND	54.6	--		36.76
Hexachlorobutadiene	ND	7.35	--	ND	78.4	--		36.76

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	84		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-20 D2
Client ID: FR-080117-SS-15
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 10:07
Analyst: MB

Date Collected: 08/01/17 13:37
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1-Dichloroethene	22500	73.5	--	89200	291	--		367.6
1,1-Dichloroethane	18200	73.5	--	73700	297	--		367.6
1,1,1-Trichloroethane	9400	73.5	--	51300	401	--		367.6

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	86		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-21
Client ID: FR-072717-IA-04
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 22:16
Analyst: RY

Date Collected: 07/27/17 15:21
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.333	0.200	--	1.65	0.989	--		1
Chloromethane	0.442	0.200	--	0.913	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.85	1.00	--	13.9	2.38	--		1
Trichlorofluoromethane	29.5	0.200	--	166	1.12	--		1
Isopropanol	0.632	0.500	--	1.55	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.345	0.200	--	1.40	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-21 Date Collected: 07/27/17 15:21

Client ID: FR-072717-IA-04 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.228	0.200	--	0.728	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.96	0.200	--	7.39	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.211	0.200	--	0.916	0.869	--		1
p/m-Xylene	0.736	0.400	--	3.20	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.329	0.200	--	1.43	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.241	0.200	--	1.18	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-21
Client ID: FR-072717-IA-04
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:21
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	75		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	81		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-21
Client ID: FR-072717-IA-04
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 22:16
Analyst: RY

Date Collected: 07/27/17 15:21
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.288	0.020	--	1.14	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.099	0.020	--	0.540	0.109	--		1
Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--		1
Trichloroethene	0.045	0.020	--	0.242	0.107	--		1
Tetrachloroethene	0.092	0.020	--	0.624	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	76		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	80		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-22
Client ID: FR-072717-IA-03
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 22:51
Analyst: RY

Date Collected: 07/27/17 15:17
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.304	0.200	--	1.50	0.989	--		1
Chloromethane	0.468	0.200	--	0.966	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.04	1.00	--	14.3	2.38	--		1
Trichlorofluoromethane	27.4	0.200	--	154	1.12	--		1
Isopropanol	0.615	0.500	--	1.51	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.501	0.500	--	1.48	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.328	0.200	--	1.33	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-22
Client ID: FR-072717-IA-03
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:17
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.230	0.200	--	0.735	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.213	0.200	--	0.995	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.23	0.200	--	12.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.235	0.200	--	1.02	0.869	--		1
p/m-Xylene	0.810	0.400	--	3.52	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.348	0.200	--	1.51	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.232	0.200	--	1.14	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-22
Client ID: FR-072717-IA-03
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:17
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	74		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	80		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-22
Client ID: FR-072717-IA-03
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 22:51
Analyst: RY

Date Collected: 07/27/17 15:17
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.302	0.020	--	1.20	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.104	0.020	--	0.567	0.109	--		1
Carbon tetrachloride	0.061	0.020	--	0.384	0.126	--		1
Trichloroethene	0.059	0.020	--	0.317	0.107	--		1
Tetrachloroethene	0.090	0.020	--	0.610	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	76		60-140
bromochloromethane	79		60-140
chlorobenzene-d5	79		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-23
Client ID: FR-072717-IA-05
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/04/17 23:26
Analyst: RY

Date Collected: 07/27/17 15:31
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.354	0.200	--	1.75	0.989	--		1
Chloromethane	0.541	0.200	--	1.12	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.21	1.00	--	21.9	2.38	--		1
Trichlorofluoromethane	38.2	0.200	--	215	1.12	--		1
Isopropanol	1.66	0.500	--	4.08	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.683	0.500	--	2.01	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.04	0.200	--	4.21	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-23
Client ID: FR-072717-IA-05
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:31
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.205	0.200	--	0.722	0.705	--		1
Benzene	0.422	0.200	--	1.35	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.352	0.200	--	1.64	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.75	0.200	--	14.1	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.351	0.200	--	1.52	0.869	--		1
p/m-Xylene	1.20	0.400	--	5.21	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.200	0.200	--	0.852	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.564	0.200	--	2.45	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.372	0.200	--	1.83	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-23
Client ID: FR-072717-IA-05
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:31
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	72		60-140
Bromochloromethane	76		60-140
chlorobenzene-d5	78		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-23
Client ID: FR-072717-IA-05
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 23:26
Analyst: RY

Date Collected: 07/27/17 15:31
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.533	0.020	--	2.11	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.219	0.020	--	1.19	0.109	--		1
Carbon tetrachloride	0.061	0.020	--	0.384	0.126	--		1
Trichloroethene	0.026	0.020	--	0.140	0.107	--		1
Tetrachloroethene	0.195	0.020	--	1.32	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	74		60-140
bromochloromethane	77		60-140
chlorobenzene-d5	77		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-24
Client ID: FR-072717-IA-07
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 00:01
Analyst: RY

Date Collected: 07/27/17 15:25
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.360	0.200	--	1.78	0.989	--		1
Chloromethane	0.561	0.200	--	1.16	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.8	1.00	--	25.7	2.38	--		1
Trichlorofluoromethane	67.6	0.200	--	380	1.12	--		1
Isopropanol	2.58	0.500	--	6.34	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.564	0.200	--	2.28	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.941	0.500	--	2.78	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.45	0.200	--	5.87	0.809	--		1

Project Name: LM-FARRELL RD. ***Lab Number:*** L1726747

Project Number: 50238 ***Report Date:*** 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-24 Date Collected: 07/27/17 15:25

Client ID: FR-072717-IA-07 Date Received: 08/02/17

Sample Location: GEDDES, NY Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.443	0.200	--	1.56	0.705	--		1
Benzene	0.803	0.200	--	2.57	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.887	0.200	--	4.14	0.934	--		1
Heptane	0.442	0.200	--	1.81	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	8.91	0.200	--	33.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.896	0.200	--	3.89	0.869	--		1
p/m-Xylene	3.09	0.400	--	13.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.369	0.200	--	1.57	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.36	0.200	--	5.91	0.869	--		1
4-Ethyltoluene	0.210	0.200	--	1.03	0.983	--		1
1,3,5-Trimethylbenzene	0.230	0.200	--	1.13	0.983	--		1
1,2,4-Trimethylbenzene	0.880	0.200	--	4.33	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-24
Client ID: FR-072717-IA-07
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:25
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	70		60-140
Bromochloromethane	74		60-140
chlorobenzene-d5	75		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-24
Client ID: FR-072717-IA-07
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/05/17 00:01
Analyst: RY

Date Collected: 07/27/17 15:25
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.51	0.020	--	5.99	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.504	0.020	--	2.75	0.109	--		1
Carbon tetrachloride	0.065	0.020	--	0.409	0.126	--		1
Trichloroethene	0.069	0.020	--	0.371	0.107	--		1
Tetrachloroethene	0.333	0.020	--	2.26	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	71		60-140
bromochloromethane	76		60-140
chlorobenzene-d5	75		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-25
Client ID: FR-072717-IA-08
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 00:36
Analyst: RY

Date Collected: 07/27/17 15:35
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.430	0.200	--	2.13	0.989	--		1
Chloromethane	0.517	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.2	1.00	--	24.2	2.38	--		1
Trichlorofluoromethane	68.1	0.200	--	383	1.12	--		1
Isopropanol	2.32	0.500	--	5.70	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.608	0.500	--	2.11	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.474	0.200	--	1.92	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.927	0.500	--	2.73	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.35	0.200	--	5.46	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-25
Client ID: FR-072717-IA-08
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:35
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.436	0.200	--	1.54	0.705	--		1
Benzene	0.763	0.200	--	2.44	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.953	0.200	--	4.45	0.934	--		1
Heptane	0.412	0.200	--	1.69	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	8.18	0.200	--	30.8	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.873	0.200	--	3.79	0.869	--		1
p/m-Xylene	3.05	0.400	--	13.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.332	0.200	--	1.41	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.33	0.200	--	5.78	0.869	--		1
4-Ethyltoluene	0.215	0.200	--	1.06	0.983	--		1
1,3,5-Trimethylbenzene	0.237	0.200	--	1.17	0.983	--		1
1,2,4-Trimethylbenzene	0.900	0.200	--	4.42	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-25
Client ID: FR-072717-IA-08
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:35
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	70		60-140
Bromochloromethane	74		60-140
chlorobenzene-d5	76		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-25
Client ID: FR-072717-IA-08
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/05/17 00:36
Analyst: RY

Date Collected: 07/27/17 15:35
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.27	0.020	--	5.04	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.474	0.020	--	2.59	0.109	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	0.065	0.020	--	0.349	0.107	--		1
Tetrachloroethene	0.325	0.020	--	2.20	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	73		60-140
bromochloromethane	76		60-140
chlorobenzene-d5	76		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-26
Client ID: FR-072717-IA-09
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/05/17 01:10
Analyst: RY

Date Collected: 07/27/17 15:38
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.349	0.200	--	1.73	0.989	--		1
Chloromethane	0.527	0.200	--	1.09	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.4	1.00	--	27.1	2.38	--		1
Trichlorofluoromethane	69.9	0.200	--	393	1.12	--		1
Isopropanol	2.40	0.500	--	5.90	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.505	0.200	--	2.04	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.14	0.500	--	3.36	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.49	0.200	--	6.03	0.809	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-26
Client ID: FR-072717-IA-09
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:38
Date Received: 08/02/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.459	0.200	--	1.62	0.705	--		1
Benzene	0.794	0.200	--	2.54	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.970	0.200	--	4.53	0.934	--		1
Heptane	0.499	0.200	--	2.04	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	8.42	0.200	--	31.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.890	0.200	--	3.87	0.869	--		1
p/m-Xylene	3.06	0.400	--	13.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.329	0.200	--	1.40	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.36	0.200	--	5.91	0.869	--		1
4-Ethyltoluene	0.216	0.200	--	1.06	0.983	--		1
1,3,5-Trimethylbenzene	0.230	0.200	--	1.13	0.983	--		1
1,2,4-Trimethylbenzene	0.869	0.200	--	4.27	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-26
Client ID: FR-072717-IA-09
Sample Location: GEDDES, NY
Date Collected: 07/27/17 15:38
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	70		60-140
Bromochloromethane	74		60-140
chlorobenzene-d5	76		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726747-26
Client ID: FR-072717-IA-09
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/05/17 01:10
Analyst: RY

Date Collected: 07/27/17 15:38
Date Received: 08/02/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	1.32	0.020	--	5.23	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.664	0.020	--	3.62	0.109	--		1
Carbon tetrachloride	0.065	0.020	--	0.409	0.126	--		1
Trichloroethene	0.057	0.020	--	0.306	0.107	--		1
Tetrachloroethene	0.463	0.020	--	3.14	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	72		60-140
bromochloromethane	75		60-140
chlorobenzene-d5	75		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 14:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1029029-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 14:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1029029-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 14:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1029029-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 16:28

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029044-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 16:28

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029044-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 16:28

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029044-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 17:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029047-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 17:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029047-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 17:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029047-4								
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 08/04/17 17:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 09-12,21-26 Batch: WG1029047-4								

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 18:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 13-20 Batch: WG1029069-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 18:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 13-20 Batch: WG1029069-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/04/17 18:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 13-20 Batch: WG1029069-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1029029-3								
Chlorodifluoromethane	88		-		70-130	-		
Propylene	108		-		70-130	-		
Propane	87		-		70-130	-		
Dichlorodifluoromethane	73		-		70-130	-		
Chloromethane	107		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	95		-		70-130	-		
Methanol	106		-		70-130	-		
Vinyl chloride	101		-		70-130	-		
1,3-Butadiene	103		-		70-130	-		
Butane	94		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethyl Alcohol	106		-		70-130	-		
Dichlorofluoromethane	94		-		70-130	-		
Vinyl bromide	90		-		70-130	-		
Acrolein	94		-		70-130	-		
Acetone	110		-		70-130	-		
Acetonitrile	109		-		70-130	-		
Trichlorofluoromethane	96		-		70-130	-		
iso-Propyl Alcohol	110		-		70-130	-		
Acrylonitrile	93		-		70-130	-		
Pentane	97		-		70-130	-		
Ethyl ether	108		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1029029-3								
1,1-Dichloroethene	102		-		70-130	-		
tert-Butyl Alcohol	86		-		70-130	-		
Methylene chloride	113		-		70-130	-		
3-Chloropropene	116		-		70-130	-		
Carbon disulfide	97		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		-		70-130	-		
trans-1,2-Dichloroethene	112		-		70-130	-		
1,1-Dichloroethane	88		-		70-130	-		
Methyl tert butyl ether	76		-		70-130	-		
Vinyl acetate	122		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
Ethyl Acetate	100		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	89		-		70-130	-		
2,2-Dichloropropane	81		-		70-130	-		
1,2-Dichloroethane	92		-		70-130	-		
n-Hexane	113		-		70-130	-		
Isopropyl Ether	97		-		70-130	-		
Ethyl-Tert-Butyl-Ether	96		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
1,1-Dichloropropene	100		-		70-130	-		
Benzene	105		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1029029-3								
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	109		-		70-130	-		
Tertiary-Amyl Methyl Ether	89		-		70-130	-		
Dibromomethane	101		-		70-130	-		
1,2-Dichloropropane	116		-		70-130	-		
Bromodichloromethane	111		-		70-130	-		
1,4-Dioxane	109		-		70-130	-		
Trichloroethene	110		-		70-130	-		
2,2,4-Trimethylpentane	114		-		70-130	-		
Methyl Methacrylate	118		-		70-130	-		
Heptane	117		-		70-130	-		
cis-1,3-Dichloropropene	114		-		70-130	-		
4-Methyl-2-pentanone	119		-		70-130	-		
trans-1,3-Dichloropropene	98		-		70-130	-		
1,1,2-Trichloroethane	111		-		70-130	-		
Toluene	110		-		70-130	-		
1,3-Dichloropropane	102		-		70-130	-		
2-Hexanone	112		-		70-130	-		
Dibromochloromethane	113		-		70-130	-		
1,2-Dibromoethane	111		-		70-130	-		
Butyl Acetate	82		-		70-130	-		
Octane	97		-		70-130	-		
Tetrachloroethene	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238
Lab Number: L1726747
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1029029-3								
1,1,1,2-Tetrachloroethane	104		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	111		-		70-130	-		
Bromoform	115		-		70-130	-		
Styrene	110		-		70-130	-		
1,1,2,2-Tetrachloroethane	127		-		70-130	-		
o-Xylene	117		-		70-130	-		
1,2,3-Trichloropropane	109		-		70-130	-		
Nonane (C9)	115		-		70-130	-		
Isopropylbenzene	110		-		70-130	-		
Bromobenzene	106		-		70-130	-		
o-Chlorotoluene	108		-		70-130	-		
n-Propylbenzene	113		-		70-130	-		
p-Chlorotoluene	105		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	121		-		70-130	-		
tert-Butylbenzene	119		-		70-130	-		
1,2,4-Trimethylbenzene	128		-		70-130	-		
Decane (C10)	123		-		70-130	-		
Benzyl chloride	117		-		70-130	-		
1,3-Dichlorobenzene	122		-		70-130	-		
1,4-Dichlorobenzene	123		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1029029-3								
sec-Butylbenzene	118		-		70-130	-		
p-Isopropyltoluene	107		-		70-130	-		
1,2-Dichlorobenzene	122		-		70-130	-		
n-Butylbenzene	124		-		70-130	-		
1,2-Dibromo-3-chloropropane	103		-		70-130	-		
Undecane	**133**	Q	-		70-130	-		
Dodecane (C12)	**146**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	**137**	Q	-		70-130	-		
Naphthalene	119		-		70-130	-		
1,2,3-Trichlorobenzene	126		-		70-130	-		
Hexachlorobutadiene	**134**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029044-3								
Chlorodifluoromethane	82		-		70-130	-		
Propylene	100		-		70-130	-		
Propane	70		-		70-130	-		
Dichlorodifluoromethane	70		-		70-130	-		
Chloromethane	97		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93		-		70-130	-		
Methanol	88		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Butane	90		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethyl Alcohol	90		-		70-130	-		
Dichlorofluoromethane	88		-		70-130	-		
Vinyl bromide	94		-		70-130	-		
Acrolein	94		-		70-130	-		
Acetone	101		-		70-130	-		
Acetonitrile	91		-		70-130	-		
Trichlorofluoromethane	96		-		70-130	-		
iso-Propyl Alcohol	105		-		70-130	-		
Acrylonitrile	95		-		70-130	-		
Pentane	87		-		70-130	-		
Ethyl ether	86		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029044-3								
1,1-Dichloroethene	94		-		70-130	-		
tert-Butyl Alcohol	83		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	107		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	92		-		70-130	-		
Vinyl acetate	124		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		
Ethyl Acetate	104		-		70-130	-		
Chloroform	97		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
2,2-Dichloropropane	82		-		70-130	-		
1,2-Dichloroethane	92		-		70-130	-		
n-Hexane	101		-		70-130	-		
Isopropyl Ether	91		-		70-130	-		
Ethyl-Tert-Butyl-Ether	87		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
1,1-Dichloropropene	92		-		70-130	-		
Benzene	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029044-3								
Carbon tetrachloride	94		-		70-130	-		
Cyclohexane	99		-		70-130	-		
Tertiary-Amyl Methyl Ether	82		-		70-130	-		
Dibromomethane	88		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	99		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Methyl Methacrylate	115		-		70-130	-		
Heptane	100		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	101		-		70-130	-		
1,3-Dichloropropane	94		-		70-130	-		
2-Hexanone	106		-		70-130	-		
Dibromochloromethane	107		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		
Butyl Acetate	95		-		70-130	-		
Octane	94		-		70-130	-		
Tetrachloroethene	98		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029044-3								
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	102		-		70-130	-		
Ethylbenzene	103		-		70-130	-		
p/m-Xylene	103		-		70-130	-		
Bromoform	107		-		70-130	-		
Styrene	103		-		70-130	-		
1,1,2,2-Tetrachloroethane	105		-		70-130	-		
o-Xylene	106		-		70-130	-		
1,2,3-Trichloropropane	94		-		70-130	-		
Nonane (C9)	96		-		70-130	-		
Isopropylbenzene	98		-		70-130	-		
Bromobenzene	95		-		70-130	-		
o-Chlorotoluene	89		-		70-130	-		
n-Propylbenzene	83		-		70-130	-		
p-Chlorotoluene	93		-		70-130	-		
4-Ethyltoluene	102		-		70-130	-		
1,3,5-Trimethylbenzene	103		-		70-130	-		
tert-Butylbenzene	98		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Decane (C10)	98		-		70-130	-		
Benzyl chloride	105		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029044-3								
sec-Butylbenzene	96		-		70-130	-		
p-Isopropyltoluene	91		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
n-Butylbenzene	100		-		70-130	-		
1,2-Dibromo-3-chloropropane	95		-		70-130	-		
Undecane	102		-		70-130	-		
Dodecane (C12)	111		-		70-130	-		
1,2,4-Trichlorobenzene	104		-		70-130	-		
Naphthalene	97		-		70-130	-		
1,2,3-Trichlorobenzene	95		-		70-130	-		
Hexachlorobutadiene	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

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Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029047-3								
Propylene	98		-		70-130	-		25
Chloromethane	90		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	87		-		70-130	-		25
Vinyl chloride	92		-		70-130	-		25
1,3-Butadiene	98		-		70-130	-		25
Bromomethane	92		-		70-130	-		25
Chloroethane	92		-		70-130	-		25
Ethyl Alcohol	88		-		70-130	-		25
Vinyl bromide	92		-		70-130	-		25
Acetone	95		-		70-130	-		25
Trichlorofluoromethane	94		-		70-130	-		25
iso-Propyl Alcohol	105		-		70-130	-		25
Acrylonitrile	99		-		70-130	-		25
1,1-Dichloroethene	94		-		70-130	-		25
Methylene chloride	97		-		70-130	-		25
3-Chloropropene	106		-		70-130	-		25
Carbon disulfide	90		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		-		70-130	-		25
Halothane	106		-		70-130	-		25
trans-1,2-Dichloroethene	93		-		70-130	-		25
1,1-Dichloroethane	96		-		70-130	-		25
Methyl tert butyl ether	92		-		70-130	-		25
Vinyl acetate	111		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029047-3								
2-Butanone	92		-		70-130	-		25
cis-1,2-Dichloroethene	97		-		70-130	-		25
Ethyl Acetate	102		-		70-130	-		25
Chloroform	95		-		70-130	-		25
Tetrahydrofuran	91		-		70-130	-		25
1,2-Dichloroethane	90		-		70-130	-		25
n-Hexane	100		-		70-130	-		25
1,1,1-Trichloroethane	96		-		70-130	-		25
Benzene	97		-		70-130	-		25
Carbon tetrachloride	97		-		70-130	-		25
Cyclohexane	101		-		70-130	-		25
Dibromomethane[1]	81		-		70-130	-		25
1,2-Dichloropropane	99		-		70-130	-		25
Bromodichloromethane	100		-		70-130	-		25
1,4-Dioxane	100		-		70-130	-		25
Trichloroethene	93		-		70-130	-		25
2,2,4-Trimethylpentane	102		-		70-130	-		25
cis-1,3-Dichloropropene	106		-		70-130	-		25
4-Methyl-2-pentanone	104		-		70-130	-		25
trans-1,3-Dichloropropene	92		-		70-130	-		25
1,1,2-Trichloroethane	101		-		70-130	-		25
Toluene	100		-		70-130	-		25
2-Hexanone	104		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029047-3								
Dibromochloromethane	109		-		70-130	-		25
1,2-Dibromoethane	103		-		70-130	-		25
Tetrachloroethene	97		-		70-130	-		25
1,1,1,2-Tetrachloroethane	93		-		70-130	-		25
Chlorobenzene	101		-		70-130	-		25
Ethylbenzene	103		-		70-130	-		25
p/m-Xylene	103		-		70-130	-		25
Bromoform	109		-		70-130	-		25
Styrene	105		-		70-130	-		25
1,1,2,2-Tetrachloroethane	106		-		70-130	-		25
o-Xylene	104		-		70-130	-		25
1,2,3-Trichloropropane[1]	94		-		70-130	-		25
Isopropylbenzene	98		-		70-130	-		25
Bromobenzene[1]	94		-		70-130	-		25
4-Ethyltoluene	104		-		70-130	-		25
1,3,5-Trimethylbenzene	104		-		70-130	-		25
1,2,4-Trimethylbenzene	107		-		70-130	-		25
Benzyl chloride	113		-		70-130	-		25
1,3-Dichlorobenzene	101		-		70-130	-		25
1,4-Dichlorobenzene	101		-		70-130	-		25
sec-Butylbenzene	97		-		70-130	-		25
p-Isopropyltoluene	92		-		70-130	-		25
1,2-Dichlorobenzene	101		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

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Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 09-12,21-26 Batch: WG1029047-3								
n-Butylbenzene	102		-		70-130	-		25
1,2,4-Trichlorobenzene	107		-		70-130	-		25
Naphthalene	102		-		70-130	-		25
1,2,3-Trichlorobenzene	97		-		70-130	-		25
Hexachlorobutadiene	100		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 Batch: WG1029069-3								
Chlorodifluoromethane	87		-		70-130	-		
Propylene	94		-		70-130	-		
Propane	86		-		70-130	-		
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	97		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	91		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Butane	88		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethyl Alcohol	100		-		70-130	-		
Dichlorofluoromethane	90		-		70-130	-		
Vinyl bromide	96		-		70-130	-		
Acrolein	90		-		70-130	-		
Acetone	100		-		70-130	-		
Acetonitrile	91		-		70-130	-		
Trichlorofluoromethane	104		-		70-130	-		
iso-Propyl Alcohol	83		-		70-130	-		
Acrylonitrile	92		-		70-130	-		
Pentane	87		-		70-130	-		
Ethyl ether	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LM-FARRELL RD.

Project Number: 50238

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Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 Batch: WG1029069-3								
1,1-Dichloroethene	101		-		70-130	-		
tert-Butyl Alcohol	87		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	102		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	81		-		70-130	-		
Vinyl acetate	89		-		70-130	-		
2-Butanone	88		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		
Ethyl Acetate	97		-		70-130	-		
Chloroform	103		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
2,2-Dichloropropane	90		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	99		-		70-130	-		
Isopropyl Ether	86		-		70-130	-		
Ethyl-Tert-Butyl-Ether	84		-		70-130	-		
1,1,1-Trichloroethane	106		-		70-130	-		
1,1-Dichloropropene	98		-		70-130	-		
Benzene	94		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

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Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 Batch: WG1029069-3								
Carbon tetrachloride	114		-		70-130	-		
Cyclohexane	100		-		70-130	-		
Tertiary-Amyl Methyl Ether	81		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dichloropropane	100		-		70-130	-		
Bromodichloromethane	112		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Methyl Methacrylate	113		-		70-130	-		
Heptane	99		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	98		-		70-130	-		
trans-1,3-Dichloropropene	92		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	92		-		70-130	-		
1,3-Dichloropropane	89		-		70-130	-		
2-Hexanone	97		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	97		-		70-130	-		
Butyl Acetate	86		-		70-130	-		
Octane	86		-		70-130	-		
Tetrachloroethene	94		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 Batch: WG1029069-3								
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	93		-		70-130	-		
p/m-Xylene	95		-		70-130	-		
Bromoform	109		-		70-130	-		
Styrene	92		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	97		-		70-130	-		
1,2,3-Trichloropropane	90		-		70-130	-		
Nonane (C9)	87		-		70-130	-		
Isopropylbenzene	90		-		70-130	-		
Bromobenzene	89		-		70-130	-		
o-Chlorotoluene	89		-		70-130	-		
n-Propylbenzene	88		-		70-130	-		
p-Chlorotoluene	89		-		70-130	-		
4-Ethyltoluene	92		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
tert-Butylbenzene	91		-		70-130	-		
1,2,4-Trimethylbenzene	99		-		70-130	-		
Decane (C10)	91		-		70-130	-		
Benzyl chloride	103		-		70-130	-		
1,3-Dichlorobenzene	98		-		70-130	-		
1,4-Dichlorobenzene	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 Batch: WG1029069-3								
sec-Butylbenzene	89		-		70-130	-		
p-Isopropyltoluene	95		-		70-130	-		
1,2-Dichlorobenzene	117		-		70-130	-		
n-Butylbenzene	96		-		70-130	-		
1,2-Dibromo-3-chloropropane	104		-		70-130	-		
Undecane	100		-		70-130	-		
Dodecane (C12)	93		-		70-130	-		
1,2,4-Trichlorobenzene	105		-		70-130	-		
Naphthalene	99		-		70-130	-		
1,2,3-Trichlorobenzene	98		-		70-130	-		
Hexachlorobutadiene	104		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1029029-5 QC Sample: L1726747-03 Client ID: FR-073117-SS-20						
Dichlorodifluoromethane	0.215	0.264	ppbV	20		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	4.31	4.31	ppbV	0		25
Trichlorofluoromethane	43.0	43.4	ppbV	1		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1029029-5 QC Sample: L1726747-03 Client ID: FR-073117-SS-20						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.401	0.403	ppbV	0		25
1,1,1-Trichloroethane	3.88	4.05	ppbV	4		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1029029-5 QC Sample: L1726747-03 Client ID: FR-073117-SS-20						
Toluene	1.27	1.26	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 QC Batch ID: WG1029044-5 QC Sample: L1726747-10 Client ID: FR-072717-IA-06						
Dichlorodifluoromethane	0.357	0.372	ppbV	4		25
Chloromethane	0.508	0.500	ppbV	2		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	9.86	10.0	ppbV	1		25
Trichlorofluoromethane	65.7	66.9	ppbV	2		25
Isopropanol	2.25	2.33	ppbV	3		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	0.410	0.422	ppbV	3		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.953	0.977	ppbV	2		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 QC Batch ID: WG1029044-5 QC Sample: L1726747-10 Client ID: FR-072717-IA-06						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	1.31	1.34	ppbV	2		25
n-Hexane	0.356	0.372	ppbV	4		25
Benzene	0.678	0.754	ppbV	11		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.789	0.818	ppbV	4		25
Heptane	0.358	0.380	ppbV	6		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	6.71	6.90	ppbV	3		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.749	0.768	ppbV	3		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 09-12,21-26 QC Batch ID: WG1029044-5 QC Sample: L1726747-10 Client ID: FR-072717-IA-06						
p/m-Xylene	2.61	2.70	ppbV	3		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.277	0.286	ppbV	3		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	1.14	1.18	ppbV	3		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	0.201	0.211	ppbV	5		25
1,2,4-Trimethylbenzene	0.770	0.792	ppbV	3		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 09-12,21-26 QC Batch ID: WG1029047-5 QC Sample: L1726747-10 Client ID: FR-072717-IA-06						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	1.14	1.16	ppbV	2		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.410	0.428	ppbV	4		25
Carbon tetrachloride	0.062	0.065	ppbV	5		25
Trichloroethene	0.039	0.040	ppbV	3		25
Tetrachloroethene	0.298	0.305	ppbV	2		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 QC Batch ID: WG1029069-5 QC Sample: L1726747-16 Client ID: FR-080117-SS-05						
Dichlorodifluoromethane	0.621	0.619	ppbV	0		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	2.50	2.52	ppbV	1		25
Trichlorofluoromethane	71.1	71.5	ppbV	1		25
Isopropanol	0.854	0.859	ppbV	1		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 QC Batch ID: WG1029069-5 QC Sample: L1726747-16 Client ID: FR-080117-SS-05						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	0.534	0.542	ppbV	1		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	3.47	3.49	ppbV	1		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 13-20 QC Batch ID: WG1029069-5 QC Sample: L1726747-16 Client ID: FR-080117-SS-05						
Toluene	1.25	1.27	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.638	0.624	ppbV	2		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: LM-FARRELL RD.

Lab Number: L1726747

Project Number: 50238

Report Date: 08/09/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1726747-01	FR-073117-SS-17	0794	Flow 4	07/24/17	245826		-	-	-	Pass	9.8	11.1	12
L1726747-01	FR-073117-SS-17	2293	6.0L CAN	07/24/17	245826	L1724457-03	Pass	-29.3	-10.0	-	-	-	-
L1726747-02	FR-080117-SS-06	0543	Flow 5	07/24/17	245826		-	-	-	Pass	9.9	10.9	10
L1726747-02	FR-080117-SS-06	1673	6.0L Can	07/24/17	245826	L1724634-02	Pass	-28.1	-6.3	-	-	-	-
L1726747-03	FR-073117-SS-20	0925	Flow 3	07/24/17	245826		-	-	-	Pass	10.0	10.0	0
L1726747-03	FR-073117-SS-20	1831	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.2	-10.2	-	-	-	-
L1726747-04	FR-073117-SS-04	0638	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.0	0
L1726747-04	FR-073117-SS-04	2271	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.2	-7.5	-	-	-	-
L1726747-05	FR-073117-SS-22	0422	Flow 3	07/24/17	245826		-	-	-	Pass	10.0	10.7	7
L1726747-05	FR-073117-SS-22	2129	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.5	-7.2	-	-	-	-
L1726747-06	FR-073117-SS-19	0936	Flow 4	07/24/17	245826		-	-	-	Pass	9.7	15.9	48
L1726747-06	FR-073117-SS-19	897	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.3	-3.2	-	-	-	-
L1726747-07	FR-073117-SS-18	0973	Flow 3	07/24/17	245826		-	-	-	Pass	9.7	11.0	13
L1726747-07	FR-073117-SS-18	1850	6.0L Can	07/24/17	245826	L1724634-01	Pass	-29.3	-6.9	-	-	-	-
L1726747-08	FR-073117-SS-21	0697	#16 AMB	07/24/17	245826		-	-	-	Pass	9.8	9.8	0

Project Name: LM-FARRELL RD.

Lab Number: L1726747

Project Number: 50238

Report Date: 08/09/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1726747-08	FR-073117-SS-21	1572	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.2	-7.9	-	-	-	-
L1726747-09	FR-072717-IA-10	0718	Flow 4	07/24/17	245826		-	-	-	Pass	9.9	14.3	36
L1726747-09	FR-072717-IA-10	2282	6.0L Can	07/24/17	245826	L1724299-01	Pass	-29.0	-6.4	-	-	-	-
L1726747-10	FR-072717-IA-06	0950	Flow 4	07/24/17	245826		-	-	-	Pass	9.0	12.7	34
L1726747-10	FR-072717-IA-06	1611	6.0L Can	07/24/17	245826	L1724457-01	Pass	-29.3	-5.2	-	-	-	-
L1726747-11	FR-072717-IA-XX	0554	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.6	6
L1726747-11	FR-072717-IA-XX	1715	6.0L Can	07/24/17	245826	L1724634-01	Pass	-29.3	-9.0	-	-	-	-
L1726747-12	FR-072717-AA	0724	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.0	0
L1726747-12	FR-072717-AA	1713	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.3	-7.3	-	-	-	-
L1726747-13	FR-080117-SS-14	0799	Flow 4	07/24/17	245826		-	-	-	Pass	9.7	8.0	19
L1726747-13	FR-080117-SS-14	1549	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.5	-16.2	-	-	-	-
L1726747-14	FR-080117-SS-DUP	0235	#30 SV	07/24/17	245826		-	-	-	Pass	9.7	10.0	3
L1726747-14	FR-080117-SS-DUP	2320	6.0L CAN	07/24/17	245826	L1724634-02	Pass	-29.4	-7.9	-	-	-	-
L1726747-15	FR-080117-SS-08	0949	Flow 4	07/24/17	245826		-	-	-	Pass	9.7	10.1	4
L1726747-15	FR-080117-SS-08	1709	6.0L Can	07/24/17	245826	L1723626-02	Pass	-29.3	-6.5	-	-	-	-

Project Name: LM-FARRELL RD.

Project Number: 50238

Lab Number: L1726747

Report Date: 08/09/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1726747-16	FR-080117-SS-05	0138	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	13.9	33
L1726747-16	FR-080117-SS-05	2121	6.0L Can	07/24/17	245826	L1724634-02	Pass	-29.6	-4.7	-	-	-	-
L1726747-17	FR-080117-SS-13	0764	Flow 5	07/24/17	245826		-	-	-	Pass	10.0	10.0	0
L1726747-17	FR-080117-SS-13	1594	6.0L Can	07/24/17	245826	L1724634-01	Pass	-29.3	-7.7	-	-	-	-
L1726747-18	FR-080117-SS-12	0109	Flow 4	07/24/17	245826		-	-	-	Pass	9.8	10.5	7
L1726747-18	FR-080117-SS-12	693	6.0L Can	07/24/17	245826	L1724634-01	Pass	-29.4	-7.3	-	-	-	-
L1726747-19	FR-080117-SS-16	0913	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	11.0	10
L1726747-19	FR-080117-SS-16	1864	6.0L Can	07/24/17	245826	L1724457-03	Pass	-29.4	-7.1	-	-	-	-
L1726747-20	FR-080117-SS-15	0624	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.2	2
L1726747-20	FR-080117-SS-15	2003	6.0L Can	07/24/17	245826	L1724634-02	Pass	-29.2	-7.9	-	-	-	-
L1726747-21	FR-072717-IA-04	0258	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.0	0
L1726747-21	FR-072717-IA-04	1672	6.0L Can	07/24/17	245826	L1723626-01	Pass	-29.3	-7.8	-	-	-	-
L1726747-22	FR-072717-IA-03	0733	Flow 2	07/24/17	245826		-	-	-	Pass	10.0	10.6	6
L1726747-22	FR-072717-IA-03	942	6.0L Can	07/24/17	245826	L1724305-02	Pass	-29.2	-7.0	-	-	-	-
L1726747-23	FR-072717-IA-05	0804	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.0	0

Project Name: LM-FARRELL RD.

Lab Number: L1726747

Project Number: 50238

Report Date: 08/09/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1726747-23	FR-072717-IA-05	1522	6.0L Can	07/24/17	245826	L1724457-02	Pass	-29.0	-6.3	-	-	-	-
L1726747-24	FR-072717-IA-07	0907	Flow 4	07/24/17	245826		-	-	-	Pass	10.0	10.3	3
L1726747-24	FR-072717-IA-07	981	6.0L Can	07/24/17	245826	L1720534-02	Pass	-29.3	-8.3	-	-	-	-
L1726747-25	FR-072717-IA-08	0091	Flow 4	07/24/17	245826		-	-	-	Pass	9.0	9.1	1
L1726747-25	FR-072717-IA-08	1600	6.0L Can	07/24/17	245826	L1724305-01	Pass	-29.2	-8.3	-	-	-	-
L1726747-26	FR-072717-IA-09	0785	Flow 4	07/24/17	245826		-	-	-	Pass	9.8	9.6	2
L1726747-26	FR-072717-IA-09	2105	6.0L Can	07/24/17	245826	L1724634-02	Pass	-29.3	-8.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/19/17 15:26
Analyst: MB

Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:
Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:

Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:
Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1720534

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02 Date Collected: 06/17/17 12:00

Client ID: CAN 2253 SHELF 44 Date Received: 06/19/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	79		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/19/17 15:26
Analyst: MB

Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:
Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1720534
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1720534-02
Client ID: CAN 2253 SHELF 44
Sample Location:
Date Collected: 06/17/17 12:00
Date Received: 06/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	73		60-140

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/12/17 18:50
Analyst: RY

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/12/17 18:50
Analyst: RY

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-01
Client ID: CAN 1672 SHELF 40
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/12/17 19:23
Analyst: RY

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/12/17 19:23
Analyst: RY

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name:

Lab Number: L1723626

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1723626-02
Client ID: CAN 1709 SHELF 41
Sample Location:

Date Collected: 07/11/17 16:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	99		60-140

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/17/17 18:00
Analyst: MB

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	90		60-140

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/17/17 18:00
Analyst: MB

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name:

Lab Number: L1724299

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724299-01
Client ID: CAN 2282 SHELF 59
Sample Location:

Date Collected: 07/15/17 16:00
Date Received: 07/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	91		60-140

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/17/17 16:55
Analyst: MB

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: **Lab Number:** L1724305

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02 Date Collected: 07/16/17 16:00

Client ID: CAN 942 SHELF 56 Date Received: 07/17/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	88		60-140

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/17/17 16:55
Analyst: MB

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name:

Lab Number: L1724305

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724305-02
Client ID: CAN 942 SHELF 56
Sample Location:

Date Collected: 07/16/17 16:00
Date Received: 07/17/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	92		60-140

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01
Client ID: CAN 1611 SHELF 45
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/18/17 16:46
Analyst: MB

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01
Client ID: CAN 1611 SHELF 45
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01 Date Collected: 07/17/17 16:00

Client ID: CAN 1611 SHELF 45 Date Received: 07/18/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01
Client ID: CAN 1611 SHELF 45
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01 Date Collected: 07/17/17 16:00

Client ID: CAN 1611 SHELF 45 Date Received: 07/18/17

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01
Client ID: CAN 1611 SHELF 45
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/18/17 16:46
Analyst: MB

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01
Client ID: CAN 1611 SHELF 45
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-01 Date Collected: 07/17/17 16:00

Client ID: CAN 1611 SHELF 45 Date Received: 07/18/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/18/17 17:19
Analyst: MB

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02 Date Collected: 07/17/17 16:00

Client ID: CAN 1522 SHELF 51 Date Received: 07/18/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	85		60-140

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/18/17 17:19
Analyst: MB

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-02
Client ID: CAN 1522 SHELF 51
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/18/17 17:52
Analyst: MB

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03 Date Collected: 07/17/17 16:00

Client ID: CAN 1713 SHELF 57 Date Received: 07/18/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	77		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	77		60-140

Project Name: **Lab Number:** L1724457

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/18/17 17:52
Analyst: MB

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name:

Lab Number: L1724457

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724457-03
Client ID: CAN 1713 SHELF 57
Sample Location:

Date Collected: 07/17/17 16:00
Date Received: 07/18/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	81		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	80		60-140

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/19/17 18:14
Analyst: MB

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/19/17 16:02
Analyst: MB

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-01
Client ID: CAN 1715 SHELF 40
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	92		60-140

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/19/17 18:53
Analyst: MB

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: **Lab Number:** L1724634

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02 Date Collected: 07/18/17 16:00

Client ID: CAN 2105 SHELF 42 Date Received: 07/19/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	90		60-140

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/19/17 16:35
Analyst: MB

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name:

Lab Number: L1724634

Project Number: CANISTER QC BAT

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724634-02
Client ID: CAN 2105 SHELF 42
Sample Location:

Date Collected: 07/18/17 16:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1726747-01A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-02A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-03A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-04A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-05A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-06A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-07A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-08A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-09A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-10A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-11A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-12A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-13A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-14A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-15A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-16A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-17A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-18A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-19A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-20A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1726747-21A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-22A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-23A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name: LM-FARRELL RD.
Project Number: 50238

Lab Number: L1726747
Report Date: 08/09/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1726747-24A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-25A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)
L1726747-26A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	LM-FARRELL RD.	**Lab Number:**	L1726747
Project Number:	50238	**Report Date:**	08/09/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report

Project Name:	LM-FARRELL RD.	**Lab Number:**	L1726747
Project Number:	50238	**Report Date:**	08/09/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: LM-FARRELL RD. **Lab Number:** L1726747

Project Number: 50238 **Report Date:** 08/09/17

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 3

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 8/3/17

ALPHA Job #: L1726747

Client Information

Client: OBG
Address: 7600 Morgan Rd
Liverpool NY
Phone: 315-956-6674
Fax:
Email: eric.alongi@obg.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Geddes NY
Project #:
Project Manager: Eric Alongi
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
6747-01	FR-073117-SS-17	7/31/17	620	1513	29.09	10.13	SV	EA	6L	2293	0784	X					
02	FR-080117-SS-06	8/1/17	654	1416	28.24	5.84	SV	EA	6L	1673	0543	X					
03	FR-073117-SS-20	7/31/17	641	1458	29.86	9.81	SV	EA	6L	1831	0425	X					
04	FR-073117-SS-04	7/31/17	633	1436	29.98	6.94	SV	EA	6L	2271	0638	X					
05	FR-073117-SS-22	7/31/17	634	1402	29.67	6.68	SV	EA	6L	2129	0422	X					
06	FR-073117-SS-19	7/31/17	645	1252	29.64	2.76	SV	EA	6L	897	0936	X					
07	FR-073117-SS-18	7/31/17	629	1411	29.99	6.77	SV	EA	6L	1850	0973	X					
08	FR-073117-SS-21	7/31/17	637	1418	29.23	7.42	SV	EA	6L	1572	0697	X					
09	FR-072717-IA-10	7/27/17	800	1407	29.52	3.03	AA	EA	6L	2282	0718		X				
10	FR-072717-IA-06	7/27/17	750	1438	29.56	4.53	AA	EA	6L	1611	0950		X				

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	8/2/17 1502		8/2/17 1650
	8/2/17 1552		8/3/17 0110
	8/3 5:46		8/3/17 546

Form No: 01-02 Rev: (26-Sep-15)

AIR ANALYSIS

PAGE 2 OF 3

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 8/3/17

ALPHA Job #: L1726747

Client Information

Client: OBG
Address: 7600 Morgan Rd
Liverpool NY
Phone: 315-956-6674
Fax:
Email: eric.alongi@obg.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Geddes NY
Project #:
Project Manager: Eric Alongi
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

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6747-11	FR-072717-IA-XX	7/27/17	1040	1048	29.75	8.48	AA	EA	6L	1715	0554		X					
12	FR-072717-AA	7/27/17	804	1554	29.30	5.85	AA	EA	6L	1713	0724		X					
13	FR-080117-SS-14	8/1/17	623	1434	29.86	15.80	SV	EA	6L	1549	0799	X						
14	FR-080117-SS-DUP	8/1/17	711	1425	29.95	7.36	SV	EA	6L	2320	0235	X						
15	FR-080117-SS-08	8/1/17	711	1425	29.82	5.90	SV	EA	6L	1709	0849	X						
16	FR-080117-SS-05	8/1/17	702	1316	29.38	4.19	SV	EA	6L	2121	0138	X						
17	FR-080117-SS-13	8/1/17	612	1405	30.32	7.57	SV	EA	6L	1594	0764	X						
18	FR-080117-SS-12	8/1/17	628	1358	30.03	6.87	SV	EA	6L	693	1358	X						
19	FR-080117-SS-16	8/1/17	645	1345	29.61	6.54	SV	EA	6L	1864	0913	X						
20	FR-080117-SS-15	8/1/17	605	1337	29.20	7.48	SV	EA	6L	2003	0624	X						

ANALYSIS

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
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Other = Please Specify

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	8/2/17 1502		8/2/17 1515
	8/3/17 1550		8/3/17 1:10
	8/3 5:46		8/3/17 546

Form No: 101-02 Rev: (25-Sep-15)

AIR ANALYSIS

PAGE 3 OF 3

CHAIN OF CUSTODY

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

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Project Manager: Eric Alongi
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(Default based on Regulatory Criteria Indicated)
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Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
6747-21	FR-072717-IA-04	7/27/17	751	1521	29.91	7.16	AA	EA	6L	1672	0258	X					
22	FR-072717-IA-03	7/27/17	747	1517	29.25	6.25	AA	EA	6L	942	0733	X					
23	FR-072717-IA-05	7/27/17	754	1531	29.31	5.47	AA	EA	6L	1522	0804	X					
24	FR-072717-IA-07	7/27/17	752	1525	29.47	7.88	AA	EA	6L	981	0907	X					
25	FR-072717-IA-08	7/27/17	756	1535	29.37	7.80	AA	EA	6L	1600	0091	X					
26	FR-072717-IA-09	7/27/17	758	1538	30.23	8.37	AA	EA	6L	2105	0785	X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	8/2/17 1502		8/2/17 1502
	8/2/17 1502		8/3/17 0110
	8/3 5:46		8/3/17 546

ANALYTICAL REPORT

Lab Number:	L1737422
Client:	O'Brien & Gere Engineers 333 W. Washington Street Syracuse, NY 13021
ATTN:	Eric Alongi
Phone:	(315) 956-6674
Project Name:	LOCKHEED MARTIN
Project Number:	50238
Report Date:	12/19/17

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1737422-01	FR-101017-IA-04	AIR	GEDDES, NY	10/10/17 16:56	10/16/17
L1737422-02	FR-101017-IA-03	AIR	GEDDES, NY	10/10/17 16:52	10/16/17
L1737422-03	FR-101017-IA-10	AIR	GEDDES, NY	10/10/17 17:11	10/16/17
L1737422-04	FR-101017-IA-05	AIR	GEDDES, NY	10/10/17 17:13	10/16/17
L1737422-05	FR-101017-IA-08	AIR	GEDDES, NY	10/10/17 17:16	10/16/17
L1737422-06	FR-101017-IA-AA	AIR	GEDDES, NY	10/10/17 17:29	10/16/17
L1737422-07	FR-101017-IA-07	AIR	GEDDES, NY	10/10/17 17:03	10/16/17
L1737422-08	FR-101017-IA-09	AIR	GEDDES, NY	10/10/17 17:07	10/16/17
L1737422-09	FR-101017-IA-06	AIR	GEDDES, NY	10/10/17 17:01	10/16/17
L1737422-10	FR-101017-IA-JY	AIR	GEDDES, NY	10/10/17 17:18	10/16/17
L1737422-11	FR-101317-SS-28	SOIL_VAPOR	GEDDES, NY	10/13/17 14:11	10/16/17
L1737422-12	FR-101317-SS-29	SOIL_VAPOR	GEDDES, NY	10/13/17 14:21	10/16/17
L1737422-13	FR-101317-SS-25	SOIL_VAPOR	GEDDES, NY	10/13/17 14:53	10/16/17
L1737422-14	FR-101317-SS-30	SOIL_VAPOR	GEDDES, NY	10/13/17 14:26	10/16/17
L1737422-15	FR-101317-SS-23	SOIL_VAPOR	GEDDES, NY	10/13/17 14:39	10/16/17
L1737422-16	FR-101317-SS-27	SOIL_VAPOR	GEDDES, NY	10/13/17 14:44	10/16/17
L1737422-17	FR-101317-SS-24	SOIL_VAPOR	GEDDES, NY	10/13/17 14:33	10/16/17
L1737422-18	FR-101317-SS-26	SOIL_VAPOR	GEDDES, NY	10/13/17 14:42	10/16/17
L1737422-19	FR-101317-SS-DUP	SOIL_VAPOR	GEDDES, NY	10/13/17 14:44	10/16/17
L1737422-20	UNUSED CAN #1526	SOIL_VAPOR	GEDDES, NY		10/16/17

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: LOCKHEED MARTIN **Lab Number:** L1737422
Project Number: 50238 **Report Date:** 12/19/17

Case Narrative (continued)

Report Submission

This report replaces the one previously issued on October 23, 2017. The report has been revised to provide CLP forms that were missing from the original data package.

For indoor and ambient air samples a single aliquot of sample is taken from the canister and analyzed by both TO15 full scan and TO15 SIM simultaneously on the same instrument.

Volatile Organics in Air

Canisters were released from the laboratory on October 6, 2017. The canister certification results are provided as an addendum.

L1737422-10: The sample was diluted and re-analyzed to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L1737422-11, -12, -13, -14, -16, -17, -18, and -19: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1737422-15 results for Acetone should be considered estimated due to co-elution with a non-target peak.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 12/19/17

AIR

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-01
Client ID: FR-101017-IA-04
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/20/17 23:09
Analyst: RY

Date Collected: 10/10/17 16:56
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.487	0.200	--	2.41	0.989	--		1
Chloromethane	0.560	0.200	--	1.16	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.44	5.00	--	12.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.8	1.00	--	28.0	2.38	--		1
Trichlorofluoromethane	14.3	0.200	--	80.4	1.12	--		1
Isopropanol	1.17	0.500	--	2.88	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.847	0.500	--	2.94	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.740	0.500	--	2.18	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-01
Client ID: FR-101017-IA-04
Sample Location: GEDDES, NY
Date Collected: 10/10/17 16:56
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.386	0.200	--	1.36	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.209	0.200	--	0.976	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.26	0.200	--	8.52	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.691	0.400	--	3.00	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.262	0.200	--	1.14	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-01
Client ID: FR-101017-IA-04
Sample Location: GEDDES, NY
Date Collected: 10/10/17 16:56
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	90		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-01
Client ID: FR-101017-IA-04
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/20/17 23:09
Analyst: RY

Date Collected: 10/10/17 16:56
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.120	0.020	--	0.476	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.063	0.020	--	0.344	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	0.049	0.020	--	0.263	0.107	--		1
Tetrachloroethene	0.032	0.020	--	0.217	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	105		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-02
Client ID: FR-101017-IA-03
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/20/17 23:49
Analyst: RY

Date Collected: 10/10/17 16:52
Date Received: 10/16/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.481	0.200	--	2.38	0.989	--		1
Chloromethane	0.542	0.200	--	1.12	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.15	5.00	--	13.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.10	1.00	--	19.2	2.38	--		1
Trichlorofluoromethane	12.4	0.200	--	69.7	1.12	--		1
Isopropanol	1.19	0.500	--	2.93	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.666	0.500	--	1.96	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-02
Client ID: FR-101017-IA-03
Sample Location: GEDDES, NY
Date Collected: 10/10/17 16:52
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.305	0.200	--	1.07	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.47	0.200	--	5.54	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.495	0.400	--	2.15	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.201	0.200	--	0.873	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-02
Client ID: FR-101017-IA-03
Sample Location: GEDDES, NY
Date Collected: 10/10/17 16:52
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	92		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-02
Client ID: FR-101017-IA-03
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/20/17 23:49
Analyst: RY

Date Collected: 10/10/17 16:52
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.109	0.020	--	0.432	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.060	0.020	--	0.327	0.109	--		1
Carbon tetrachloride	0.080	0.020	--	0.503	0.126	--		1
Trichloroethene	0.029	0.020	--	0.156	0.107	--		1
Tetrachloroethene	0.031	0.020	--	0.210	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	104		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	108		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-03
Client ID: FR-101017-IA-10
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 00:30
Analyst: RY

Date Collected: 10/10/17 17:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--		1
Chloromethane	0.580	0.200	--	1.20	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.95	5.00	--	11.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.9	1.00	--	28.3	2.38	--		1
Trichlorofluoromethane	43.4	0.200	--	244	1.12	--		1
Isopropanol	2.86	0.500	--	7.03	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.222	0.200	--	0.899	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.38	0.500	--	4.07	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.21	0.200	--	4.90	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-03
Client ID: FR-101017-IA-10
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.361	0.200	--	1.27	0.705	--		1
Benzene	0.497	0.200	--	1.59	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.824	0.200	--	3.85	0.934	--		1
Heptane	0.315	0.200	--	1.29	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.56	0.200	--	17.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.592	0.200	--	2.57	0.869	--		1
p/m-Xylene	1.99	0.400	--	8.64	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.291	0.200	--	1.24	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.787	0.200	--	3.42	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.513	0.200	--	2.52	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-03
Client ID: FR-101017-IA-10
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	85		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	85		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-03
Client ID: FR-101017-IA-10
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 00:30
Analyst: RY

Date Collected: 10/10/17 17:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.518	0.020	--	2.05	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.287	0.020	--	1.57	0.109	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	0.040	0.020	--	0.215	0.107	--		1
Tetrachloroethene	0.086	0.020	--	0.583	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-04
Client ID: FR-101017-IA-05
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 01:53
Analyst: RY

Date Collected: 10/10/17 17:13
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.514	0.200	--	2.54	0.989	--		1
Chloromethane	0.580	0.200	--	1.20	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.26	5.00	--	9.91	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.97	1.00	--	23.7	2.38	--		1
Trichlorofluoromethane	41.0	0.200	--	230	1.12	--		1
Isopropanol	2.58	0.500	--	6.34	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.08	0.500	--	3.19	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.01	0.200	--	4.09	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-04
Client ID: FR-101017-IA-05
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:13
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.292	0.200	--	1.03	0.705	--		1
Benzene	0.445	0.200	--	1.42	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.823	0.200	--	3.84	0.934	--		1
Heptane	0.307	0.200	--	1.26	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.81	0.200	--	14.4	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.553	0.200	--	2.40	0.869	--		1
p/m-Xylene	1.95	0.400	--	8.47	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.229	0.200	--	0.975	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.743	0.200	--	3.23	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.532	0.200	--	2.62	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-04
Client ID: FR-101017-IA-05
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:13
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	93		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-04
Client ID: FR-101017-IA-05
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 01:53
Analyst: RY

Date Collected: 10/10/17 17:13
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.525	0.020	--	2.08	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.288	0.020	--	1.57	0.109	--		1
Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--		1
Trichloroethene	0.032	0.020	--	0.172	0.107	--		1
Tetrachloroethene	0.076	0.020	--	0.515	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	104		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	109		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-05
Client ID: FR-101017-IA-08
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 02:46
Analyst: RY

Date Collected: 10/10/17 17:16
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.527	0.200	--	2.61	0.989	--		1
Chloromethane	0.560	0.200	--	1.16	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.98	5.00	--	15.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.02	1.00	--	21.4	2.38	--		1
Trichlorofluoromethane	39.2	0.200	--	220	1.12	--		1
Isopropanol	1.89	0.500	--	4.65	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.12	0.500	--	3.30	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.692	0.200	--	2.80	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-05
Client ID: FR-101017-IA-08
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:16
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.803	0.200	--	2.83	0.705	--		1
Benzene	0.849	0.200	--	2.71	0.639	--		1
Cyclohexane	0.336	0.200	--	1.16	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	3.20	0.200	--	14.9	0.934	--		1
Heptane	0.827	0.200	--	3.39	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	11.1	0.200	--	41.8	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.80	0.200	--	7.82	0.869	--		1
p/m-Xylene	6.42	0.400	--	27.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.50	0.200	--	10.9	0.869	--		1
4-Ethyltoluene	0.374	0.200	--	1.84	0.983	--		1
1,3,5-Trimethylbenzene	0.391	0.200	--	1.92	0.983	--		1
1,2,4-Trimethylbenzene	1.58	0.200	--	7.77	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-05
Client ID: FR-101017-IA-08
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:16
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-05
Client ID: FR-101017-IA-08
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 02:46
Analyst: RY

Date Collected: 10/10/17 17:16
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.374	0.020	--	1.48	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.291	0.020	--	1.59	0.109	--		1
Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--		1
Trichloroethene	0.028	0.020	--	0.150	0.107	--		1
Tetrachloroethene	0.064	0.020	--	0.434	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	103		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	108		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-06
Client ID: FR-101017-IA-AA
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 03:26
Analyst: RY

Date Collected: 10/10/17 17:29
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.458	0.200	--	2.26	0.989	--		1
Chloromethane	0.498	0.200	--	1.03	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.42	5.00	--	14.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.6	1.00	--	25.2	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.09	0.500	--	2.68	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.809	0.500	--	2.39	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-06
Client ID: FR-101017-IA-AA
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:29
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.375	0.200	--	1.32	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.76	0.200	--	6.63	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-06
Client ID: FR-101017-IA-AA
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:29
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-06
Client ID: FR-101017-IA-AA
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 03:26
Analyst: RY

Date Collected: 10/10/17 17:29
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.031	0.020	--	0.167	0.107	--		1
Tetrachloroethene	0.032	0.020	--	0.217	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	107		60-140
bromochloromethane	110		60-140
chlorobenzene-d5	112		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-07
Client ID: FR-101017-IA-07
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 04:07
Analyst: RY

Date Collected: 10/10/17 17:03
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.494	0.200	--	2.44	0.989	--		1
Chloromethane	0.544	0.200	--	1.12	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.3	5.00	--	23.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	25.4	1.00	--	60.3	2.38	--		1
Trichlorofluoromethane	30.9	0.200	--	174	1.12	--		1
Isopropanol	3.22	0.500	--	7.92	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.31	0.500	--	4.55	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.79	0.500	--	5.28	1.47	--		1
Ethyl Acetate	1.04	0.500	--	3.75	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.628	0.200	--	2.54	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-07
Client ID: FR-101017-IA-07
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:03
Date Received: 10/16/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.866	0.200	--	3.05	0.705	--		1
Benzene	0.489	0.200	--	1.56	0.639	--		1
Cyclohexane	2.51	0.200	--	8.64	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.26	0.200	--	5.89	0.934	--		1
Heptane	0.588	0.200	--	2.41	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	8.33	0.200	--	31.4	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.922	0.200	--	4.00	0.869	--		1
p/m-Xylene	3.22	0.400	--	14.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.266	0.200	--	1.13	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.21	0.200	--	5.26	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.209	0.200	--	1.03	0.983	--		1
1,2,4-Trimethylbenzene	0.790	0.200	--	3.88	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-07
Client ID: FR-101017-IA-07
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:03
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	87		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-07
Client ID: FR-101017-IA-07
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 04:07
Analyst: RY

Date Collected: 10/10/17 17:03
Date Received: 10/16/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.346	0.020	--	1.37	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.257	0.020	--	1.40	0.109	--		1
Carbon tetrachloride	0.074	0.020	--	0.465	0.126	--		1
Trichloroethene	0.086	0.020	--	0.462	0.107	--		1
Tetrachloroethene	0.086	0.020	--	0.583	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-08
Client ID: FR-101017-IA-09
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 04:47
Analyst: RY

Date Collected: 10/10/17 17:07
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.518	0.200	--	2.56	0.989	--		1
Chloromethane	0.571	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.0	1.00	--	26.1	2.38	--		1
Trichlorofluoromethane	42.2	0.200	--	237	1.12	--		1
Isopropanol	2.84	0.500	--	6.98	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.31	0.500	--	3.86	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	1.44	0.200	--	5.83	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-08
Client ID: FR-101017-IA-09
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:07
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.340	0.200	--	1.20	0.705	--		1
Benzene	0.568	0.200	--	1.81	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.881	0.200	--	4.11	0.934	--		1
Heptane	0.482	0.200	--	1.98	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.71	0.200	--	17.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.671	0.200	--	2.91	0.869	--		1
p/m-Xylene	2.30	0.400	--	9.99	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.302	0.200	--	1.29	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.906	0.200	--	3.94	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.642	0.200	--	3.16	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-08
Client ID: FR-101017-IA-09
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:07
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	83		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-08
Client ID: FR-101017-IA-09
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 04:47
Analyst: RY

Date Collected: 10/10/17 17:07
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.495	0.020	--	1.96	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.436	0.020	--	2.38	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	0.039	0.020	--	0.210	0.107	--		1
Tetrachloroethene	0.103	0.020	--	0.698	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-09
Client ID: FR-101017-IA-06
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 05:30
Analyst: RY

Date Collected: 10/10/17 17:01
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.523	0.200	--	2.59	0.989	--		1
Chloromethane	0.572	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.83	5.00	--	11.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.5	1.00	--	24.9	2.38	--		1
Trichlorofluoromethane	41.0	0.200	--	230	1.12	--		1
Isopropanol	2.32	0.500	--	5.70	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.18	0.500	--	3.48	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.907	0.200	--	3.67	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-09
Client ID: FR-101017-IA-06
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:01
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.396	0.200	--	1.40	0.705	--		1
Benzene	0.503	0.200	--	1.61	0.639	--		1
Cyclohexane	0.868	0.200	--	2.99	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	1.11	0.200	--	5.18	0.934	--		1
Heptane	0.396	0.200	--	1.62	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.03	0.200	--	22.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.764	0.200	--	3.32	0.869	--		1
p/m-Xylene	2.61	0.400	--	11.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.276	0.200	--	1.18	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.990	0.200	--	4.30	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.703	0.200	--	3.46	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-09
Client ID: FR-101017-IA-06
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:01
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	83		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	83		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-09
Client ID: FR-101017-IA-06
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 05:30
Analyst: RY

Date Collected: 10/10/17 17:01
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.472	0.020	--	1.87	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.293	0.020	--	1.60	0.109	--		1
Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--		1
Trichloroethene	0.045	0.020	--	0.242	0.107	--		1
Tetrachloroethene	0.085	0.020	--	0.576	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-10
Client ID: FR-101017-IA-JY
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 08:50
Analyst: RY

Date Collected: 10/10/17 17:18
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.487	0.200	--	2.41	0.989	--		1
Chloromethane	0.602	0.200	--	1.24	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	358	5.00	--	675	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	48.9	1.00	--	116	2.38	--		1
Trichlorofluoromethane	29.5	0.200	--	166	1.12	--		1
Isopropanol	9.01	0.500	--	22.1	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.53	0.500	--	8.79	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	3.51	0.500	--	10.4	1.47	--		1
Ethyl Acetate	4.80	0.500	--	17.3	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.776	0.500	--	2.29	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-10
Client ID: FR-101017-IA-JY
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:18
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Hexane	27.2	0.200	--	95.9	0.705	--		1
Benzene	17.4	0.200	--	55.6	0.639	--		1
Cyclohexane	7.32	0.200	--	25.2	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	98.4	0.200	--	460	0.934	--		1
Heptane	22.5	0.200	--	92.2	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.856	0.500	--	3.51	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	183	0.200	--	690	0.754	--	E	1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	41.4	0.200	--	180	0.869	--		1
p/m-Xylene	128	0.400	--	556	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.747	0.200	--	3.18	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	53.5	0.200	--	232	0.869	--		1
4-Ethyltoluene	8.81	0.200	--	43.3	0.983	--		1
1,3,5-Trimethylbenzene	11.3	0.200	--	55.6	0.983	--		1
1,2,4-Trimethylbenzene	39.4	0.200	--	194	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-10
Client ID: FR-101017-IA-JY
Sample Location: GEDDES, NY
Date Collected: 10/10/17 17:18
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	92		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-10
Client ID: FR-101017-IA-JY
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/21/17 08:50
Analyst: RY

Date Collected: 10/10/17 17:18
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.353	0.020	--	1.40	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.677	0.020	--	3.69	0.109	--		1
Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--		1
Trichloroethene	0.166	0.020	--	0.892	0.107	--		1
Tetrachloroethene	0.143	0.020	--	0.970	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	104		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	102		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-10 D
Client ID: FR-101017-IA-JY
Sample Location: GEDDES, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 09:44
Analyst: MB

Date Collected: 10/10/17 17:18
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Toluene	214	1.00	--	806	3.77	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	83		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-11 D
Client ID: FR-101317-SS-28
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 08:38
Analyst: RY

Date Collected: 10/13/17 14:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
Freon-114	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethanol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	9.04	5.00	--	21.5	11.9	--		5
Trichlorofluoromethane	13.6	1.00	--	76.4	5.62	--		5
Isopropanol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	341	1.00	--	1350	3.96	--		5
Tertiary butyl Alcohol	ND	2.50	--	ND	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
Freon-113	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	105	1.00	--	425	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-11 D
Client ID: FR-101317-SS-28
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	3.28	1.00	--	13.3	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	6.42	1.00	--	23.1	3.60	--		5
Trichloroethene	26.7	1.00	--	143	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	1.39	1.00	--	5.24	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5
p/m-Xylene	ND	2.00	--	ND	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-11 D
Client ID: FR-101317-SS-28
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:11
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	ND	1.00	--	ND	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	102		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	94		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-12 D
Client ID: FR-101317-SS-29
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 09:17
Analyst: RY

Date Collected: 10/13/17 14:21
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.33	--	ND	31.3	--		31.65
Chloromethane	ND	6.33	--	ND	13.1	--		31.65
Freon-114	ND	6.33	--	ND	44.2	--		31.65
Vinyl chloride	ND	6.33	--	ND	16.2	--		31.65
1,3-Butadiene	ND	6.33	--	ND	14.0	--		31.65
Bromomethane	ND	6.33	--	ND	24.6	--		31.65
Chloroethane	ND	6.33	--	ND	16.7	--		31.65
Ethanol	ND	158.	--	ND	298	--		31.65
Vinyl bromide	ND	6.33	--	ND	27.7	--		31.65
Acetone	ND	31.6	--	ND	75.1	--		31.65
Trichlorofluoromethane	22.7	6.33	--	128	35.6	--		31.65
Isopropanol	ND	15.8	--	ND	38.8	--		31.65
1,1-Dichloroethene	2030	6.33	--	8050	25.1	--		31.65
Tertiary butyl Alcohol	ND	15.8	--	ND	47.9	--		31.65
Methylene chloride	ND	15.8	--	ND	54.9	--		31.65
3-Chloropropene	ND	6.33	--	ND	19.8	--		31.65
Carbon disulfide	ND	6.33	--	ND	19.7	--		31.65
Freon-113	ND	6.33	--	ND	48.5	--		31.65
trans-1,2-Dichloroethene	ND	6.33	--	ND	25.1	--		31.65
1,1-Dichloroethane	584	6.33	--	2360	25.6	--		31.65
Methyl tert butyl ether	ND	6.33	--	ND	22.8	--		31.65
2-Butanone	ND	15.8	--	ND	46.6	--		31.65
cis-1,2-Dichloroethene	ND	6.33	--	ND	25.1	--		31.65
Ethyl Acetate	ND	15.8	--	ND	56.9	--		31.65

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-12 D
Client ID: FR-101317-SS-29
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:21
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	6.33	--	ND	30.9	--		31.65
Tetrahydrofuran	ND	15.8	--	ND	46.6	--		31.65
1,2-Dichloroethane	ND	6.33	--	ND	25.6	--		31.65
n-Hexane	ND	6.33	--	ND	22.3	--		31.65
1,1,1-Trichloroethane	7.62	6.33	--	41.6	34.5	--		31.65
Benzene	ND	6.33	--	ND	20.2	--		31.65
Carbon tetrachloride	ND	6.33	--	ND	39.8	--		31.65
Cyclohexane	ND	6.33	--	ND	21.8	--		31.65
1,2-Dichloropropane	ND	6.33	--	ND	29.3	--		31.65
Bromodichloromethane	ND	6.33	--	ND	42.4	--		31.65
1,4-Dioxane	ND	6.33	--	ND	22.8	--		31.65
Trichloroethene	281	6.33	--	1510	34.0	--		31.65
2,2,4-Trimethylpentane	ND	6.33	--	ND	29.6	--		31.65
Heptane	ND	6.33	--	ND	25.9	--		31.65
cis-1,3-Dichloropropene	ND	6.33	--	ND	28.7	--		31.65
4-Methyl-2-pentanone	ND	15.8	--	ND	64.8	--		31.65
trans-1,3-Dichloropropene	ND	6.33	--	ND	28.7	--		31.65
1,1,2-Trichloroethane	ND	6.33	--	ND	34.5	--		31.65
Toluene	ND	6.33	--	ND	23.9	--		31.65
2-Hexanone	ND	6.33	--	ND	25.9	--		31.65
Dibromochloromethane	ND	6.33	--	ND	53.9	--		31.65
1,2-Dibromoethane	ND	6.33	--	ND	48.6	--		31.65
Tetrachloroethene	ND	6.33	--	ND	42.9	--		31.65
Chlorobenzene	ND	6.33	--	ND	29.2	--		31.65
Ethylbenzene	ND	6.33	--	ND	27.5	--		31.65
p/m-Xylene	ND	12.6	--	ND	54.7	--		31.65
Bromoform	ND	6.33	--	ND	65.4	--		31.65
Styrene	ND	6.33	--	ND	27.0	--		31.65

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-12 D
Client ID: FR-101317-SS-29
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:21
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	6.33	--	ND	43.5	--		31.65
o-Xylene	ND	6.33	--	ND	27.5	--		31.65
4-Ethyltoluene	ND	6.33	--	ND	31.1	--		31.65
1,3,5-Trimethylbenzene	ND	6.33	--	ND	31.1	--		31.65
1,2,4-Trimethylbenzene	ND	6.33	--	ND	31.1	--		31.65
Benzyl chloride	ND	6.33	--	ND	32.8	--		31.65
1,3-Dichlorobenzene	ND	6.33	--	ND	38.1	--		31.65
1,4-Dichlorobenzene	ND	6.33	--	ND	38.1	--		31.65
1,2-Dichlorobenzene	ND	6.33	--	ND	38.1	--		31.65
1,2,4-Trichlorobenzene	ND	6.33	--	ND	47.0	--		31.65
Hexachlorobutadiene	ND	6.33	--	ND	67.5	--		31.65

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	111		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	102		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-13 D
Client ID: FR-101317-SS-25
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 02:30
Analyst: RY

Date Collected: 10/13/17 14:53
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	147.	--	ND	727	--		735.3
Chloromethane	ND	147.	--	ND	304	--		735.3
Freon-114	ND	147.	--	ND	1030	--		735.3
Vinyl chloride	ND	147.	--	ND	376	--		735.3
1,3-Butadiene	ND	147.	--	ND	325	--		735.3
Bromomethane	ND	147.	--	ND	571	--		735.3
Chloroethane	ND	147.	--	ND	388	--		735.3
Ethanol	ND	3680	--	ND	6930	--		735.3
Vinyl bromide	ND	147.	--	ND	643	--		735.3
Acetone	ND	735	--	ND	1750	--		735.3
Trichlorofluoromethane	ND	147.	--	ND	826	--		735.3
Isopropanol	ND	368.	--	ND	905	--		735.3
1,1-Dichloroethene	39200	147	--	155000	583	--		735.3
Tertiary butyl Alcohol	ND	368.	--	ND	1120	--		735.3
Methylene chloride	ND	368.	--	ND	1280	--		735.3
3-Chloropropene	ND	147.	--	ND	460	--		735.3
Carbon disulfide	ND	147.	--	ND	458	--		735.3
Freon-113	ND	147.	--	ND	1130	--		735.3
trans-1,2-Dichloroethene	ND	147.	--	ND	583	--		735.3
1,1-Dichloroethane	8540	147	--	34600	595	--		735.3
Methyl tert butyl ether	ND	147.	--	ND	530	--		735.3
2-Butanone	ND	368.	--	ND	1090	--		735.3
cis-1,2-Dichloroethene	ND	147.	--	ND	583	--		735.3
Ethyl Acetate	ND	368.	--	ND	1330	--		735.3

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-13 D
Client ID: FR-101317-SS-25
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:53
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	147	--	ND	718	--		735.3
Tetrahydrofuran	ND	368.	--	ND	1090	--		735.3
1,2-Dichloroethane	ND	147	--	ND	595	--		735.3
n-Hexane	ND	147.	--	ND	518	--		735.3
1,1,1-Trichloroethane	3870	147	--	21100	802	--		735.3
Benzene	ND	147	--	ND	470	--		735.3
Carbon tetrachloride	ND	147.	--	ND	925	--		735.3
Cyclohexane	ND	147.	--	ND	506	--		735.3
1,2-Dichloropropane	ND	147.	--	ND	679	--		735.3
Bromodichloromethane	ND	147.	--	ND	985	--		735.3
1,4-Dioxane	ND	147.	--	ND	530	--		735.3
Trichloroethene	179	147	--	962	790	--		735.3
2,2,4-Trimethylpentane	ND	147.	--	ND	687	--		735.3
Heptane	ND	147.	--	ND	602	--		735.3
cis-1,3-Dichloropropene	ND	147.	--	ND	667	--		735.3
4-Methyl-2-pentanone	ND	368.	--	ND	1510	--		735.3
trans-1,3-Dichloropropene	ND	147.	--	ND	667	--		735.3
1,1,2-Trichloroethane	ND	147.	--	ND	802	--		735.3
Toluene	ND	147.	--	ND	554	--		735.3
2-Hexanone	ND	147.	--	ND	602	--		735.3
Dibromochloromethane	ND	147.	--	ND	1250	--		735.3
1,2-Dibromoethane	ND	147.	--	ND	1130	--		735.3
Tetrachloroethene	326	147	--	2210	997	--		735.3
Chlorobenzene	ND	147.	--	ND	677	--		735.3
Ethylbenzene	ND	147.	--	ND	639	--		735.3
p/m-Xylene	ND	294.	--	ND	1280	--		735.3
Bromoform	ND	147.	--	ND	1520	--		735.3
Styrene	ND	147.	--	ND	626	--		735.3

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-13 D
Client ID: FR-101317-SS-25
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:53
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	147.	--	ND	1010	--		735.3
o-Xylene	ND	147.	--	ND	639	--		735.3
4-Ethyltoluene	ND	147.	--	ND	723	--		735.3
1,3,5-Trimethylbenzene	ND	147.	--	ND	723	--		735.3
1,2,4-Trimethylbenzene	ND	147.	--	ND	723	--		735.3
Benzyl chloride	ND	147.	--	ND	761	--		735.3
1,3-Dichlorobenzene	ND	147.	--	ND	884	--		735.3
1,4-Dichlorobenzene	ND	147.	--	ND	884	--		735.3
1,2-Dichlorobenzene	ND	147.	--	ND	884	--		735.3
1,2,4-Trichlorobenzene	ND	147.	--	ND	1090	--		735.3
Hexachlorobutadiene	ND	147.	--	ND	1570	--		735.3

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	105		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	89		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-14 D
Client ID: FR-101317-SS-30
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 03:09
Analyst: RY

Date Collected: 10/13/17 14:26
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.88	--	ND	34.0	--		34.39
Chloromethane	ND	6.88	--	ND	14.2	--		34.39
Freon-114	ND	6.88	--	ND	48.1	--		34.39
Vinyl chloride	ND	6.88	--	ND	17.6	--		34.39
1,3-Butadiene	ND	6.88	--	ND	15.2	--		34.39
Bromomethane	ND	6.88	--	ND	26.7	--		34.39
Chloroethane	ND	6.88	--	ND	18.2	--		34.39
Ethanol	ND	172	--	ND	324	--		34.39
Vinyl bromide	ND	6.88	--	ND	30.1	--		34.39
Acetone	ND	34.4	--	ND	81.7	--		34.39
Trichlorofluoromethane	23.8	6.88	--	134	38.7	--		34.39
Isopropanol	ND	17.2	--	ND	42.3	--		34.39
1,1-Dichloroethene	1580	6.88	--	6260	27.3	--		34.39
Tertiary butyl Alcohol	ND	17.2	--	ND	52.1	--		34.39
Methylene chloride	ND	17.2	--	ND	59.8	--		34.39
3-Chloropropene	ND	6.88	--	ND	21.5	--		34.39
Carbon disulfide	ND	6.88	--	ND	21.4	--		34.39
Freon-113	ND	6.88	--	ND	52.7	--		34.39
trans-1,2-Dichloroethene	ND	6.88	--	ND	27.3	--		34.39
1,1-Dichloroethane	298	6.88	--	1210	27.8	--		34.39
Methyl tert butyl ether	ND	6.88	--	ND	24.8	--		34.39
2-Butanone	ND	17.2	--	ND	50.7	--		34.39
cis-1,2-Dichloroethene	ND	6.88	--	ND	27.3	--		34.39
Ethyl Acetate	ND	17.2	--	ND	62.0	--		34.39

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-14 D
Client ID: FR-101317-SS-30
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:26
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	10.5	6.88	--	51.3	33.6	--		34.39
Tetrahydrofuran	ND	17.2	--	ND	50.7	--		34.39
1,2-Dichloroethane	ND	6.88	--	ND	27.8	--		34.39
n-Hexane	ND	6.88	--	ND	24.2	--		34.39
1,1,1-Trichloroethane	12.6	6.88	--	68.7	37.5	--		34.39
Benzene	ND	6.88	--	ND	22.0	--		34.39
Carbon tetrachloride	ND	6.88	--	ND	43.3	--		34.39
Cyclohexane	ND	6.88	--	ND	23.7	--		34.39
1,2-Dichloropropane	ND	6.88	--	ND	31.8	--		34.39
Bromodichloromethane	ND	6.88	--	ND	46.1	--		34.39
1,4-Dioxane	ND	6.88	--	ND	24.8	--		34.39
Trichloroethene	95.3	6.88	--	512	37.0	--		34.39
2,2,4-Trimethylpentane	ND	6.88	--	ND	32.1	--		34.39
Heptane	ND	6.88	--	ND	28.2	--		34.39
cis-1,3-Dichloropropene	ND	6.88	--	ND	31.2	--		34.39
4-Methyl-2-pentanone	ND	17.2	--	ND	70.5	--		34.39
trans-1,3-Dichloropropene	ND	6.88	--	ND	31.2	--		34.39
1,1,2-Trichloroethane	ND	6.88	--	ND	37.5	--		34.39
Toluene	ND	6.88	--	ND	25.9	--		34.39
2-Hexanone	ND	6.88	--	ND	28.2	--		34.39
Dibromochloromethane	ND	6.88	--	ND	58.6	--		34.39
1,2-Dibromoethane	ND	6.88	--	ND	52.9	--		34.39
Tetrachloroethene	ND	6.88	--	ND	46.7	--		34.39
Chlorobenzene	ND	6.88	--	ND	31.7	--		34.39
Ethylbenzene	ND	6.88	--	ND	29.9	--		34.39
p/m-Xylene	ND	13.8	--	ND	59.9	--		34.39
Bromoform	ND	6.88	--	ND	71.1	--		34.39
Styrene	ND	6.88	--	ND	29.3	--		34.39

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-14 D
Client ID: FR-101317-SS-30
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:26
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	6.88	--	ND	47.2	--		34.39
o-Xylene	ND	6.88	--	ND	29.9	--		34.39
4-Ethyltoluene	ND	6.88	--	ND	33.8	--		34.39
1,3,5-Trimethylbenzene	ND	6.88	--	ND	33.8	--		34.39
1,2,4-Trimethylbenzene	ND	6.88	--	ND	33.8	--		34.39
Benzyl chloride	ND	6.88	--	ND	35.6	--		34.39
1,3-Dichlorobenzene	ND	6.88	--	ND	41.4	--		34.39
1,4-Dichlorobenzene	ND	6.88	--	ND	41.4	--		34.39
1,2-Dichlorobenzene	ND	6.88	--	ND	41.4	--		34.39
1,2,4-Trichlorobenzene	ND	6.88	--	ND	51.1	--		34.39
Hexachlorobutadiene	ND	6.88	--	ND	73.4	--		34.39

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	96		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-15
Client ID: FR-101317-SS-23
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 00:40
Analyst: RY

Date Collected: 10/13/17 14:39
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.340	0.200	--	1.68	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	12.6	1.00	--	29.9	2.38	--		1
Trichlorofluoromethane	27.7	0.200	--	156	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.365	0.200	--	1.14	0.623	--		1
Freon-113	1.11	0.200	--	8.51	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.587	0.500	--	1.73	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-15
Client ID: FR-101317-SS-23
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:39
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	5.34	0.200	--	18.8	0.705	--		1
1,1,1-Trichloroethane	40.6	0.200	--	222	1.09	--		1
Benzene	3.49	0.200	--	11.1	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	5.81	0.200	--	20.0	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	7.55	0.200	--	30.9	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.80	0.200	--	29.4	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.17	0.200	--	5.08	0.869	--		1
p/m-Xylene	6.33	0.400	--	27.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-15
Client ID: FR-101317-SS-23
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:39
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.03	0.200	--	4.47	0.869	--		1
4-Ethyltoluene	0.432	0.200	--	2.12	0.983	--		1
1,3,5-Trimethylbenzene	1.05	0.200	--	5.16	0.983	--		1
1,2,4-Trimethylbenzene	0.996	0.200	--	4.90	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	100		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	92		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-16 D
Client ID: FR-101317-SS-27
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 03:45
Analyst: RY

Date Collected: 10/13/17 14:44
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	102.	--	ND	504	--		510.2
Chloromethane	ND	102.	--	ND	211	--		510.2
Freon-114	ND	102.	--	ND	713	--		510.2
Vinyl chloride	ND	102.	--	ND	261	--		510.2
1,3-Butadiene	ND	102.	--	ND	226	--		510.2
Bromomethane	ND	102.	--	ND	396	--		510.2
Chloroethane	263	102	--	694	269	--		510.2
Ethanol	ND	2550	--	ND	4800	--		510.2
Vinyl bromide	ND	102.	--	ND	446	--		510.2
Acetone	ND	510	--	ND	1210	--		510.2
Trichlorofluoromethane	ND	102	--	ND	573	--		510.2
Isopropanol	ND	255.	--	ND	627	--		510.2
1,1-Dichloroethene	23000	102	--	91200	404	--		510.2
Tertiary butyl Alcohol	ND	255.	--	ND	773	--		510.2
Methylene chloride	ND	255.	--	ND	886	--		510.2
3-Chloropropene	ND	102.	--	ND	319	--		510.2
Carbon disulfide	ND	102.	--	ND	318	--		510.2
Freon-113	ND	102.	--	ND	782	--		510.2
trans-1,2-Dichloroethene	ND	102.	--	ND	404	--		510.2
1,1-Dichloroethane	14400	102	--	58300	413	--		510.2
Methyl tert butyl ether	ND	102.	--	ND	368	--		510.2
2-Butanone	ND	255.	--	ND	752	--		510.2
cis-1,2-Dichloroethene	ND	102.	--	ND	404	--		510.2
Ethyl Acetate	ND	255.	--	ND	919	--		510.2

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-16 D
Client ID: FR-101317-SS-27
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:44
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	102	--	ND	498	--		510.2
Tetrahydrofuran	ND	255.	--	ND	752	--		510.2
1,2-Dichloroethane	439	102	--	1780	413	--		510.2
n-Hexane	ND	102.	--	ND	359	--		510.2
1,1,1-Trichloroethane	5990	102	--	32700	557	--		510.2
Benzene	ND	102	--	ND	326	--		510.2
Carbon tetrachloride	ND	102.	--	ND	642	--		510.2
Cyclohexane	ND	102.	--	ND	351	--		510.2
1,2-Dichloropropane	ND	102.	--	ND	471	--		510.2
Bromodichloromethane	ND	102.	--	ND	683	--		510.2
1,4-Dioxane	221	102	--	796	368	--		510.2
Trichloroethene	208	102	--	1120	548	--		510.2
2,2,4-Trimethylpentane	ND	102.	--	ND	476	--		510.2
Heptane	ND	102.	--	ND	418	--		510.2
cis-1,3-Dichloropropene	ND	102.	--	ND	463	--		510.2
4-Methyl-2-pentanone	ND	255.	--	ND	1050	--		510.2
trans-1,3-Dichloropropene	ND	102.	--	ND	463	--		510.2
1,1,2-Trichloroethane	ND	102	--	ND	557	--		510.2
Toluene	ND	102.	--	ND	384	--		510.2
2-Hexanone	ND	102.	--	ND	418	--		510.2
Dibromochloromethane	ND	102.	--	ND	869	--		510.2
1,2-Dibromoethane	ND	102.	--	ND	784	--		510.2
Tetrachloroethene	371	102	--	2520	692	--		510.2
Chlorobenzene	ND	102.	--	ND	470	--		510.2
Ethylbenzene	ND	102.	--	ND	443	--		510.2
p/m-Xylene	ND	204.	--	ND	886	--		510.2
Bromoform	ND	102.	--	ND	1050	--		510.2
Styrene	ND	102.	--	ND	434	--		510.2

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-16 D
Client ID: FR-101317-SS-27
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:44
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	102.	--	ND	700	--		510.2
o-Xylene	ND	102.	--	ND	443	--		510.2
4-Ethyltoluene	ND	102.	--	ND	501	--		510.2
1,3,5-Trimethylbenzene	ND	102.	--	ND	501	--		510.2
1,2,4-Trimethylbenzene	ND	102.	--	ND	501	--		510.2
Benzyl chloride	ND	102.	--	ND	528	--		510.2
1,3-Dichlorobenzene	ND	102.	--	ND	613	--		510.2
1,4-Dichlorobenzene	ND	102.	--	ND	613	--		510.2
1,2-Dichlorobenzene	ND	102.	--	ND	613	--		510.2
1,2,4-Trichlorobenzene	ND	102.	--	ND	757	--		510.2
Hexachlorobutadiene	ND	102.	--	ND	1090	--		510.2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	105		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	90		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-17 D
Client ID: FR-101317-SS-24
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 04:21
Analyst: RY

Date Collected: 10/13/17 14:33
Date Received: 10/16/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	84.7	--	ND	419	--		423.7
Chloromethane	ND	84.7	--	ND	175	--		423.7
Freon-114	ND	84.7	--	ND	592	--		423.7
Vinyl chloride	ND	84.7	--	ND	217	--		423.7
1,3-Butadiene	ND	84.7	--	ND	187	--		423.7
Bromomethane	ND	84.7	--	ND	329	--		423.7
Chloroethane	ND	84.7	--	ND	224	--		423.7
Ethanol	ND	2120	--	ND	3990	--		423.7
Vinyl bromide	ND	84.7	--	ND	370	--		423.7
Acetone	ND	424	--	ND	1010	--		423.7
Trichlorofluoromethane	ND	84.7	--	ND	476	--		423.7
Isopropanol	ND	212.	--	ND	521	--		423.7
1,1-Dichloroethene	18000	84.7	--	71400	336	--		423.7
Tertiary butyl Alcohol	ND	212.	--	ND	643	--		423.7
Methylene chloride	ND	212.	--	ND	736	--		423.7
3-Chloropropene	ND	84.7	--	ND	265	--		423.7
Carbon disulfide	ND	84.7	--	ND	264	--		423.7
Freon-113	ND	84.7	--	ND	649	--		423.7
trans-1,2-Dichloroethene	ND	84.7	--	ND	336	--		423.7
1,1-Dichloroethane	11200	84.7	--	45300	343	--		423.7
Methyl tert butyl ether	ND	84.7	--	ND	305	--		423.7
2-Butanone	ND	212.	--	ND	625	--		423.7
cis-1,2-Dichloroethene	ND	84.7	--	ND	336	--		423.7
Ethyl Acetate	ND	212.	--	ND	764	--		423.7

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-17 D
Client ID: FR-101317-SS-24
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:33
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	84.7	--	ND	414	--		423.7
Tetrahydrofuran	ND	212.	--	ND	625	--		423.7
1,2-Dichloroethane	ND	84.7	--	ND	343	--		423.7
n-Hexane	ND	84.7	--	ND	299	--		423.7
1,1,1-Trichloroethane	758	84.7	--	4140	462	--		423.7
Benzene	ND	84.7	--	ND	271	--		423.7
Carbon tetrachloride	ND	84.7	--	ND	533	--		423.7
Cyclohexane	ND	84.7	--	ND	292	--		423.7
1,2-Dichloropropane	ND	84.7	--	ND	391	--		423.7
Bromodichloromethane	ND	84.7	--	ND	567	--		423.7
1,4-Dioxane	ND	84.7	--	ND	305	--		423.7
Trichloroethene	ND	84.7	--	ND	455	--		423.7
2,2,4-Trimethylpentane	ND	84.7	--	ND	396	--		423.7
Heptane	ND	84.7	--	ND	347	--		423.7
cis-1,3-Dichloropropene	ND	84.7	--	ND	385	--		423.7
4-Methyl-2-pentanone	ND	212.	--	ND	869	--		423.7
trans-1,3-Dichloropropene	ND	84.7	--	ND	385	--		423.7
1,1,2-Trichloroethane	ND	84.7	--	ND	462	--		423.7
Toluene	ND	84.7	--	ND	319	--		423.7
2-Hexanone	ND	84.7	--	ND	347	--		423.7
Dibromochloromethane	ND	84.7	--	ND	722	--		423.7
1,2-Dibromoethane	ND	84.7	--	ND	651	--		423.7
Tetrachloroethene	ND	84.7	--	ND	574	--		423.7
Chlorobenzene	ND	84.7	--	ND	390	--		423.7
Ethylbenzene	ND	84.7	--	ND	368	--		423.7
p/m-Xylene	ND	169.	--	ND	734	--		423.7
Bromoform	ND	84.7	--	ND	876	--		423.7
Styrene	ND	84.7	--	ND	361	--		423.7

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-17 D
Client ID: FR-101317-SS-24
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:33
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	84.7	--	ND	582	--		423.7
o-Xylene	ND	84.7	--	ND	368	--		423.7
4-Ethyltoluene	ND	84.7	--	ND	416	--		423.7
1,3,5-Trimethylbenzene	ND	84.7	--	ND	416	--		423.7
1,2,4-Trimethylbenzene	ND	84.7	--	ND	416	--		423.7
Benzyl chloride	ND	84.7	--	ND	439	--		423.7
1,3-Dichlorobenzene	ND	84.7	--	ND	509	--		423.7
1,4-Dichlorobenzene	ND	84.7	--	ND	509	--		423.7
1,2-Dichlorobenzene	ND	84.7	--	ND	509	--		423.7
1,2,4-Trichlorobenzene	ND	84.7	--	ND	629	--		423.7
Hexachlorobutadiene	ND	84.7	--	ND	903	--		423.7

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	108		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	97		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-18 D
Client ID: FR-101317-SS-26
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 09:55
Analyst: RY

Date Collected: 10/13/17 14:42
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	16.6	--	ND	82.1	--		83.06
Chloromethane	ND	16.6	--	ND	34.3	--		83.06
Freon-114	ND	16.6	--	ND	116	--		83.06
Vinyl chloride	ND	16.6	--	ND	42.4	--		83.06
1,3-Butadiene	ND	16.6	--	ND	36.7	--		83.06
Bromomethane	ND	16.6	--	ND	64.5	--		83.06
Chloroethane	ND	16.6	--	ND	43.8	--		83.06
Ethanol	ND	415	--	ND	782	--		83.06
Vinyl bromide	ND	16.6	--	ND	72.6	--		83.06
Acetone	ND	83.1	--	ND	197	--		83.06
Trichlorofluoromethane	30.6	16.6	--	172	93.3	--		83.06
Isopropanol	ND	41.5	--	ND	102	--		83.06
1,1-Dichloroethene	5720	16.6	--	22700	65.8	--		83.06
Tertiary butyl Alcohol	ND	41.5	--	ND	126	--		83.06
Methylene chloride	ND	41.5	--	ND	144	--		83.06
3-Chloropropene	ND	16.6	--	ND	52.0	--		83.06
Carbon disulfide	ND	16.6	--	ND	51.7	--		83.06
Freon-113	ND	16.6	--	ND	127	--		83.06
trans-1,2-Dichloroethene	ND	16.6	--	ND	65.8	--		83.06
1,1-Dichloroethane	518	16.6	--	2100	67.2	--		83.06
Methyl tert butyl ether	ND	16.6	--	ND	59.8	--		83.06
2-Butanone	ND	41.5	--	ND	122	--		83.06
cis-1,2-Dichloroethene	ND	16.6	--	ND	65.8	--		83.06
Ethyl Acetate	ND	41.5	--	ND	150	--		83.06

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-18 D
Client ID: FR-101317-SS-26
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:42
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	21.8	16.6	--	106	81.1	--		83.06
Tetrahydrofuran	ND	41.5	--	ND	122	--		83.06
1,2-Dichloroethane	ND	16.6	--	ND	67.2	--		83.06
n-Hexane	ND	16.6	--	ND	58.5	--		83.06
1,1,1-Trichloroethane	130	16.6	--	709	90.6	--		83.06
Benzene	ND	16.6	--	ND	53.0	--		83.06
Carbon tetrachloride	ND	16.6	--	ND	104	--		83.06
Cyclohexane	ND	16.6	--	ND	57.1	--		83.06
1,2-Dichloropropane	ND	16.6	--	ND	76.7	--		83.06
Bromodichloromethane	ND	16.6	--	ND	111	--		83.06
1,4-Dioxane	ND	16.6	--	ND	59.8	--		83.06
Trichloroethene	ND	16.6	--	ND	89.2	--		83.06
2,2,4-Trimethylpentane	ND	16.6	--	ND	77.5	--		83.06
Heptane	ND	16.6	--	ND	68.0	--		83.06
cis-1,3-Dichloropropene	ND	16.6	--	ND	75.4	--		83.06
4-Methyl-2-pentanone	ND	41.5	--	ND	170	--		83.06
trans-1,3-Dichloropropene	ND	16.6	--	ND	75.4	--		83.06
1,1,2-Trichloroethane	ND	16.6	--	ND	90.6	--		83.06
Toluene	ND	16.6	--	ND	62.6	--		83.06
2-Hexanone	ND	16.6	--	ND	68.0	--		83.06
Dibromochloromethane	ND	16.6	--	ND	141	--		83.06
1,2-Dibromoethane	ND	16.6	--	ND	128	--		83.06
Tetrachloroethene	ND	16.6	--	ND	113	--		83.06
Chlorobenzene	ND	16.6	--	ND	76.4	--		83.06
Ethylbenzene	ND	16.6	--	ND	72.1	--		83.06
p/m-Xylene	ND	33.2	--	ND	144	--		83.06
Bromoform	ND	16.6	--	ND	172	--		83.06
Styrene	ND	16.6	--	ND	70.7	--		83.06

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-18 D
Client ID: FR-101317-SS-26
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:42
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	16.6	--	ND	114	--		83.06
o-Xylene	ND	16.6	--	ND	72.1	--		83.06
4-Ethyltoluene	ND	16.6	--	ND	81.6	--		83.06
1,3,5-Trimethylbenzene	ND	16.6	--	ND	81.6	--		83.06
1,2,4-Trimethylbenzene	ND	16.6	--	ND	81.6	--		83.06
Benzyl chloride	ND	16.6	--	ND	86.0	--		83.06
1,3-Dichlorobenzene	ND	16.6	--	ND	99.8	--		83.06
1,4-Dichlorobenzene	ND	16.6	--	ND	99.8	--		83.06
1,2-Dichlorobenzene	ND	16.6	--	ND	99.8	--		83.06
1,2,4-Trichlorobenzene	ND	16.6	--	ND	123	--		83.06
Hexachlorobutadiene	ND	16.6	--	ND	177	--		83.06

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	113		60-140
Bromochloromethane	113		60-140
chlorobenzene-d5	107		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-19 D
Client ID: FR-101317-SS-DUP
Sample Location: GEDDES, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/21/17 05:33
Analyst: RY

Date Collected: 10/13/17 14:44
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	68.5	--	ND	339	--		342.5
Chloromethane	ND	68.5	--	ND	141	--		342.5
Freon-114	ND	68.5	--	ND	479	--		342.5
Vinyl chloride	ND	68.5	--	ND	175	--		342.5
1,3-Butadiene	ND	68.5	--	ND	152	--		342.5
Bromomethane	ND	68.5	--	ND	266	--		342.5
Chloroethane	245	68.5	--	647	181	--		342.5
Ethanol	ND	1710	--	ND	3220	--		342.5
Vinyl bromide	ND	68.5	--	ND	299	--		342.5
Acetone	ND	342	--	ND	812	--		342.5
Trichlorofluoromethane	ND	68.5	--	ND	385	--		342.5
Isopropanol	ND	171.	--	ND	420	--		342.5
1,1-Dichloroethene	21600	68.5	--	85600	272	--		342.5
Tertiary butyl Alcohol	ND	171.	--	ND	518	--		342.5
Methylene chloride	ND	171.	--	ND	594	--		342.5
3-Chloropropene	ND	68.5	--	ND	214	--		342.5
Carbon disulfide	ND	68.5	--	ND	213	--		342.5
Freon-113	ND	68.5	--	ND	525	--		342.5
trans-1,2-Dichloroethene	ND	68.5	--	ND	272	--		342.5
1,1-Dichloroethane	13400	68.5	--	54200	277	--		342.5
Methyl tert butyl ether	ND	68.5	--	ND	247	--		342.5
2-Butanone	ND	171.	--	ND	504	--		342.5
cis-1,2-Dichloroethene	ND	68.5	--	ND	272	--		342.5
Ethyl Acetate	ND	171.	--	ND	616	--		342.5

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-19 D
Client ID: FR-101317-SS-DUP
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:44
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	131	68.5	--	640	335	--		342.5
Tetrahydrofuran	ND	171.	--	ND	504	--		342.5
1,2-Dichloroethane	428	68.5	--	1730	277	--		342.5
n-Hexane	ND	68.5	--	ND	241	--		342.5
1,1,1-Trichloroethane	5960	68.5	--	32500	374	--		342.5
Benzene	ND	68.5	--	ND	219	--		342.5
Carbon tetrachloride	ND	68.5	--	ND	431	--		342.5
Cyclohexane	ND	68.5	--	ND	236	--		342.5
1,2-Dichloropropane	ND	68.5	--	ND	317	--		342.5
Bromodichloromethane	ND	68.5	--	ND	459	--		342.5
1,4-Dioxane	214	68.5	--	771	247	--		342.5
Trichloroethene	187	68.5	--	1000	368	--		342.5
2,2,4-Trimethylpentane	ND	68.5	--	ND	320	--		342.5
Heptane	ND	68.5	--	ND	281	--		342.5
cis-1,3-Dichloropropene	ND	68.5	--	ND	311	--		342.5
4-Methyl-2-pentanone	ND	171.	--	ND	701	--		342.5
trans-1,3-Dichloropropene	ND	68.5	--	ND	311	--		342.5
1,1,2-Trichloroethane	81.2	68.5	--	443	374	--		342.5
Toluene	ND	68.5	--	ND	258	--		342.5
2-Hexanone	ND	68.5	--	ND	281	--		342.5
Dibromochloromethane	ND	68.5	--	ND	584	--		342.5
1,2-Dibromoethane	ND	68.5	--	ND	526	--		342.5
Tetrachloroethene	354	68.5	--	2400	465	--		342.5
Chlorobenzene	ND	68.5	--	ND	315	--		342.5
Ethylbenzene	ND	68.5	--	ND	298	--		342.5
p/m-Xylene	ND	137.	--	ND	595	--		342.5
Bromoform	ND	68.5	--	ND	708	--		342.5
Styrene	ND	68.5	--	ND	292	--		342.5

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

SAMPLE RESULTS

Lab ID: L1737422-19 D
Client ID: FR-101317-SS-DUP
Sample Location: GEDDES, NY
Date Collected: 10/13/17 14:44
Date Received: 10/16/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	68.5	--	ND	470	--		342.5
o-Xylene	ND	68.5	--	ND	298	--		342.5
4-Ethyltoluene	ND	68.5	--	ND	337	--		342.5
1,3,5-Trimethylbenzene	ND	68.5	--	ND	337	--		342.5
1,2,4-Trimethylbenzene	ND	68.5	--	ND	337	--		342.5
Benzyl chloride	ND	68.5	--	ND	355	--		342.5
1,3-Dichlorobenzene	ND	68.5	--	ND	412	--		342.5
1,4-Dichlorobenzene	ND	68.5	--	ND	412	--		342.5
1,2-Dichlorobenzene	ND	68.5	--	ND	412	--		342.5
1,2,4-Trichlorobenzene	ND	68.5	--	ND	508	--		342.5
Hexachlorobutadiene	ND	68.5	--	ND	731	--		342.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	115		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	102		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/20/17 16:16

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG1054548-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/20/17 16:16

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG1054548-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/20/17 16:16

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG1054548-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 10/20/17 16:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG1054549-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/20/17 16:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 11-19 Batch: WG1054557-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/20/17 16:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 11-19 Batch: WG1054557-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOCKHEED MARTIN
Project Number: 50238
Lab Number: L1737422
Report Date: 12/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/20/17 16:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 11-19 Batch: WG1054557-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1054548-3								
Chlorodifluoromethane	88		-		70-130	-		
Propylene	115		-		70-130	-		
Propane	92		-		70-130	-		
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	97		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	94		-		70-130	-		
Methanol	85		-		70-130	-		
Vinyl chloride	87		-		70-130	-		
1,3-Butadiene	84		-		70-130	-		
Butane	88		-		70-130	-		
Bromomethane	91		-		70-130	-		
Chloroethane	84		-		70-130	-		
Ethyl Alcohol	94		-		70-130	-		
Dichlorofluoromethane	78		-		70-130	-		
Vinyl bromide	91		-		70-130	-		
Acrolein	85		-		70-130	-		
Acetone	93		-		70-130	-		
Acetonitrile	79		-		70-130	-		
Trichlorofluoromethane	86		-		70-130	-		
iso-Propyl Alcohol	101		-		70-130	-		
Acrylonitrile	88		-		70-130	-		
Pentane	79		-		70-130	-		
Ethyl ether	83		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1054548-3								
1,1-Dichloroethene	83		-		70-130	-		
tert-Butyl Alcohol	70		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	91		-		70-130	-		
Carbon disulfide	91		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	99		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
Vinyl acetate	126		-		70-130	-		
2-Butanone	109		-		70-130	-		
cis-1,2-Dichloroethene	104		-		70-130	-		
Ethyl Acetate	108		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	112		-		70-130	-		
2,2-Dichloropropane	88		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	99		-		70-130	-		
Isopropyl Ether	92		-		70-130	-		
Ethyl-Tert-Butyl-Ether	79		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
1,1-Dichloropropene	100		-		70-130	-		
Benzene	100		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1054548-3								
Carbon tetrachloride	100		-		70-130	-		
Cyclohexane	102		-		70-130	-		
Tertiary-Amyl Methyl Ether	86		-		70-130	-		
Dibromomethane	96		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	103		-		70-130	-		
1,4-Dioxane	109		-		70-130	-		
Trichloroethene	105		-		70-130	-		
2,2,4-Trimethylpentane	101		-		70-130	-		
Methyl Methacrylate	**132**	Q	-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	114		-		70-130	-		
4-Methyl-2-pentanone	117		-		70-130	-		
trans-1,3-Dichloropropene	98		-		70-130	-		
1,1,2-Trichloroethane	110		-		70-130	-		
Toluene	115		-		70-130	-		
1,3-Dichloropropane	99		-		70-130	-		
2-Hexanone	122		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	110		-		70-130	-		
Butyl Acetate	112		-		70-130	-		
Octane	103		-		70-130	-		
Tetrachloroethene	115		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1054548-3								
1,1,1,2-Tetrachloroethane	108		-		70-130	-		
Chlorobenzene	109		-		70-130	-		
Ethylbenzene	122		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	129		-		70-130	-		
Styrene	116		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	117		-		70-130	-		
1,2,3-Trichloropropane	100		-		70-130	-		
Nonane (C9)	113		-		70-130	-		
Isopropylbenzene	106		-		70-130	-		
Bromobenzene	103		-		70-130	-		
o-Chlorotoluene	105		-		70-130	-		
n-Propylbenzene	102		-		70-130	-		
p-Chlorotoluene	102		-		70-130	-		
4-Ethyltoluene	111		-		70-130	-		
1,3,5-Trimethylbenzene	109		-		70-130	-		
tert-Butylbenzene	109		-		70-130	-		
1,2,4-Trimethylbenzene	116		-		70-130	-		
Decane (C10)	103		-		70-130	-		
Benzyl chloride	122		-		70-130	-		
1,3-Dichlorobenzene	110		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1054548-3								
sec-Butylbenzene	101		-		70-130	-		
p-Isopropyltoluene	102		-		70-130	-		
1,2-Dichlorobenzene	106		-		70-130	-		
n-Butylbenzene	112		-		70-130	-		
1,2-Dibromo-3-chloropropane	113		-		70-130	-		
Undecane	111		-		70-130	-		
Dodecane (C12)	119		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Naphthalene	108		-		70-130	-		
1,2,3-Trichlorobenzene	102		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG1054549-3								
Vinyl chloride	88		-		70-130	-		25
Chloroethane	77		-		70-130	-		25
1,1-Dichloroethene	86		-		70-130	-		25
trans-1,2-Dichloroethene	102		-		70-130	-		25
1,1-Dichloroethane	105		-		70-130	-		25
cis-1,2-Dichloroethene	108		-		70-130	-		25
1,2-Dichloroethane	94		-		70-130	-		25
1,1,1-Trichloroethane	102		-		70-130	-		25
Carbon tetrachloride	104		-		70-130	-		25
1,4-Dioxane	117		-		70-130	-		25
Trichloroethene	107		-		70-130	-		25
1,1,2-Trichloroethane	113		-		70-130	-		25
Tetrachloroethene	121		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 Batch: WG1054557-3								
Chlorodifluoromethane	80		-		70-130	-		
Propylene	91		-		70-130	-		
Propane	**69**	Q	-		70-130	-		
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	74		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	90		-		70-130	-		
Methanol	**67**	Q	-		70-130	-		
Vinyl chloride	90		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Butane	**64**	Q	-		70-130	-		
Bromomethane	85		-		70-130	-		
Chloroethane	83		-		70-130	-		
Ethyl Alcohol	76		-		70-130	-		
Dichlorofluoromethane	74		-		70-130	-		
Vinyl bromide	79		-		70-130	-		
Acrolein	82		-		70-130	-		
Acetone	84		-		70-130	-		
Acetonitrile	77		-		70-130	-		
Trichlorofluoromethane	82		-		70-130	-		
iso-Propyl Alcohol	74		-		70-130	-		
Acrylonitrile	80		-		70-130	-		
Pentane	**63**	Q	-		70-130	-		
Ethyl ether	74		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 Batch: WG1054557-3								
1,1-Dichloroethene	90		-		70-130	-		
tert-Butyl Alcohol	73		-		70-130	-		
Methylene chloride	81		-		70-130	-		
3-Chloropropene	81		-		70-130	-		
Carbon disulfide	76		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	83		-		70-130	-		
trans-1,2-Dichloroethene	85		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	73		-		70-130	-		
Vinyl acetate	87		-		70-130	-		
2-Butanone	76		-		70-130	-		
cis-1,2-Dichloroethene	84		-		70-130	-		
Ethyl Acetate	81		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	77		-		70-130	-		
2,2-Dichloropropane	78		-		70-130	-		
1,2-Dichloroethane	88		-		70-130	-		
n-Hexane	91		-		70-130	-		
Isopropyl Ether	72		-		70-130	-		
Ethyl-Tert-Butyl-Ether	71		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
1,1-Dichloropropene	99		-		70-130	-		
Benzene	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 Batch: WG1054557-3								
Carbon tetrachloride	99		-		70-130	-		
Cyclohexane	97		-		70-130	-		
Tertiary-Amyl Methyl Ether	77		-		70-130	-		
Dibromomethane	90		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	99		-		70-130	-		
Methyl Methacrylate	105		-		70-130	-		
Heptane	92		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	92		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	80		-		70-130	-		
1,3-Dichloropropane	87		-		70-130	-		
2-Hexanone	78		-		70-130	-		
Dibromochloromethane	92		-		70-130	-		
1,2-Dibromoethane	92		-		70-130	-		
Butyl Acetate	86		-		70-130	-		
Octane	75		-		70-130	-		
Tetrachloroethene	86		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1737422

Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 Batch: WG1054557-3								
1,1,1,2-Tetrachloroethane	83		-		70-130	-		
Chlorobenzene	90		-		70-130	-		
Ethylbenzene	85		-		70-130	-		
p/m-Xylene	88		-		70-130	-		
Bromoform	99		-		70-130	-		
Styrene	94		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	92		-		70-130	-		
1,2,3-Trichloropropane	94		-		70-130	-		
Nonane (C9)	81		-		70-130	-		
Isopropylbenzene	91		-		70-130	-		
Bromobenzene	89		-		70-130	-		
o-Chlorotoluene	88		-		70-130	-		
n-Propylbenzene	86		-		70-130	-		
p-Chlorotoluene	88		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	97		-		70-130	-		
tert-Butylbenzene	92		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Decane (C10)	94		-		70-130	-		
Benzyl chloride	90		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1737422

Report Date: 12/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 Batch: WG1054557-3								
sec-Butylbenzene	96		-		70-130	-		
p-Isopropyltoluene	86		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
n-Butylbenzene	99		-		70-130	-		
1,2-Dibromo-3-chloropropane	99		-		70-130	-		
Undecane	107		-		70-130	-		
Dodecane (C12)	104		-		70-130	-		
1,2,4-Trichlorobenzene	119		-		70-130	-		
Naphthalene	114		-		70-130	-		
1,2,3-Trichlorobenzene	111		-		70-130	-		
Hexachlorobutadiene	108		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1054548-5 QC Sample: L1737422-03 Client ID: FR-101017-IA-10						
Dichlorodifluoromethane	0.521	0.525	ppbV	1		25
Chloromethane	0.580	0.573	ppbV	1		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	5.95	6.05	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	11.9	12.7	ppbV	7		25
Trichlorofluoromethane	43.4	42.5	ppbV	2		25
Isopropanol	2.86	2.75	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	0.222	0.214	ppbV	4		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.38	1.38	ppbV	0		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1054548-5 QC Sample: L1737422-03 Client ID: FR-101017-IA-10						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	1.21	1.20	ppbV	1		25
n-Hexane	0.361	0.360	ppbV	0		25
Benzene	0.497	0.493	ppbV	1		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.824	0.827	ppbV	0		25
Heptane	0.315	0.324	ppbV	3		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	4.56	4.46	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.592	0.597	ppbV	1		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1054548-5 QC Sample: L1737422-03 Client ID: FR-101017-IA-10						
p/m-Xylene	1.99	1.96	ppbV	2		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.291	0.290	ppbV	0		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.787	0.793	ppbV	1		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.513	0.507	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1054549-5 QC Sample: L1737422-03 Client ID: FR-101017-IA-10						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	0.518	0.513	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.287	0.290	ppbV	1		25
Carbon tetrachloride	0.075	0.080	ppbV	6		25
Trichloroethene	0.040	0.036	ppbV	11		25
Tetrachloroethene	0.086	0.085	ppbV	1		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 QC Batch ID: WG1054557-5 QC Sample: L1737491-02 Client ID: DUP Sample						
Dichlorodifluoromethane	0.626	0.542	ppbV	14		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	0.826	0.764	ppbV	8		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 QC Batch ID: WG1054557-5 QC Sample: L1737491-02 Client ID: DUP Sample						
2-Butanone	1.66	1.60	ppbV	4		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	17.2	17.8	ppbV	3		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	6.72	6.75	ppbV	0		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	1.46	1.48	ppbV	1		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	56.3	54.3	ppbV	4		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	90.5	85.4	ppbV	6		25
Heptane	1.26	1.22	ppbV	3		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 11-19 QC Batch ID: WG1054557-5 QC Sample: L1737491-02 Client ID: DUP Sample						
Toluene	2.16	2.17	ppbV	0		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	4.13	4.41	ppbV	7		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	1.71	1.80	ppbV	5		25
p/m-Xylene	6.02	6.20	ppbV	3		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	1.15	1.21	ppbV	5		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	2.17	2.27	ppbV	5		25
4-Ethyltoluene	0.722	0.710	ppbV	2		25
1,3,5-Trimethylbenzene	1.81	1.79	ppbV	1		25
1,2,4-Trimethylbenzene	3.23	3.25	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	0.594	0.594	ppbV	0		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1737422

Report Date: 12/19/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1737422-01	FR-101017-IA-04	0498	Flow 5	10/06/17	250475		-	-	-	Pass	10.0	9.9	1
L1737422-01	FR-101017-IA-04	951	6.0L Can	10/06/17	250475	L1733122-03	Pass	-29.7	-6.0	-	-	-	-
L1737422-02	FR-101017-IA-03	0212	Flow 5	10/06/17	250475		-	-	-	Pass	9.8	10.3	5
L1737422-02	FR-101017-IA-03	2269	6.0L Can	10/06/17	250475	L1732899-03	Pass	-29.7	-5.6	-	-	-	-
L1737422-03	FR-101017-IA-10	0087	Flow 5	10/06/17	250475		-	-	-	Pass	9.8	9.7	1
L1737422-03	FR-101017-IA-10	2281	6.0L Can	10/06/17	250475	L1733456-03	Pass	-29.7	-7.5	-	-	-	-
L1737422-04	FR-101017-IA-05	0594	Flow 5	10/06/17	250475		-	-	-	Pass	10.0	9.4	6
L1737422-04	FR-101017-IA-05	950	6.0L Can	10/06/17	250475	L1733860-02	Pass	-29.7	-7.6	-	-	-	-
L1737422-05	FR-101017-IA-08	0400	Flow 5	10/06/17	250475		-	-	-	Pass	9.2	5.7	47
L1737422-05	FR-101017-IA-08	2266	6.0L Can	10/06/17	250475	L1735634-02	Pass	-29.7	-13.8	-	-	-	-
L1737422-06	FR-101017-IA-AA	0237	Flow 5	10/06/17	250475		-	-	-	Pass	10.0	9.9	1
L1737422-06	FR-101017-IA-AA	2108	6.0L Can	10/06/17	250475	L1731465-01	Pass	-29.7	-6.5	-	-	-	-
L1737422-07	FR-101017-IA-07	0475	Flow 5	10/06/17	250475		-	-	-	Pass	9.8	9.2	6
L1737422-07	FR-101017-IA-07	1796	6.0L Can	10/06/17	250475	L1733456-01	Pass	-29.7	-6.6	-	-	-	-
L1737422-08	FR-101017-IA-09	0550	Flow 5	10/06/17	250475		-	-	-	Pass	9.9	9.9	0

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1737422

Report Date: 12/19/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1737422-08	FR-101017-IA-09	2046	6.0L Can	10/06/17	250475	L1733122-01	Pass	-29.7	-6.7	-	-	-	-
L1737422-09	FR-101017-IA-06	0379	Flow 5	10/06/17	250475		-	-	-	Pass	9.1	8.6	6
L1737422-09	FR-101017-IA-06	1535	6.0L Can	10/06/17	250475	L1735634-01	Pass	-29.7	-9.8	-	-	-	-
L1737422-10	FR-101017-IA-JY	0843	Flow 5	10/06/17	250475		-	-	-	Pass	9.9	10.3	4
L1737422-10	FR-101017-IA-JY	1982	6.0L Can	10/06/17	250475	L1732899-01	Pass	-29.7	-10.4	-	-	-	-
L1737422-11	FR-101317-SS-28	0242	Flow 4	10/06/17	250475		-	-	-	Pass	9.6	10.5	9
L1737422-11	FR-101317-SS-28	1663	6.0L Can	10/06/17	250475	L1734842-03	Pass	-28.9	-5.3	-	-	-	-
L1737422-12	FR-101317-SS-29	0772	Flow 4	10/06/17	250475		-	-	-	Pass	9.9	13.4	30
L1737422-12	FR-101317-SS-29	1583	6.0L Can	10/06/17	250475	L1734842-03	Pass	-28.3	-3.9	-	-	-	-
L1737422-13	FR-101317-SS-25	0433	Flow 4	10/06/17	250475		-	-	-	Pass	9.9	10.3	4
L1737422-13	FR-101317-SS-25	2275	6.0L Can	10/06/17	250475	L1734842-03	Pass	-29.9	-7.2	-	-	-	-
L1737422-14	FR-101317-SS-30	0403	Flow 4	10/06/17	250475		-	-	-	Pass	10.0	11.2	11
L1737422-14	FR-101317-SS-30	1612	6.0L Can	10/06/17	250475	L1734842-02	Pass	-29.9	-5.9	-	-	-	-
L1737422-15	FR-101317-SS-23	0422	Flow 3	10/06/17	250475		-	-	-	Pass	9.4	10.9	15
L1737422-15	FR-101317-SS-23	2261	6.0L Can	10/06/17	250475	L1734842-02	Pass	-29.5	-7.0	-	-	-	-

Project Name: LOCKHEED MARTIN

Project Number: 50238

Lab Number: L1737422

Report Date: 12/19/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1737422-16	FR-101317-SS-27	0048	Flow 4	10/06/17	250475		-	-	-	Pass	9.9	10.8	9
L1737422-16	FR-101317-SS-27	1703	6.0L Can	10/06/17	250475	L1734842-03	Pass	-29.9	-9.7	-	-	-	-
L1737422-17	FR-101317-SS-24	0949	Flow 4	10/06/17	250475		-	-	-	Pass	10.0	10.4	4
L1737422-17	FR-101317-SS-24	2287	6.0L Can	10/06/17	250475	L1734842-02	Pass	-29.9	-5.8	-	-	-	-
L1737422-18	FR-101317-SS-26	0624	Flow 4	10/06/17	250475		-	-	-	Pass	10.0	10.9	9
L1737422-18	FR-101317-SS-26	980	6.0L Can	10/06/17	250475	L1734842-02	Pass	-28.9	-5.0	-	-	-	-
L1737422-19	FR-101317-SS-DUP	0138	Flow 4	10/06/17	250475		-	-	-	Pass	10.0	10.9	9
L1737422-19	FR-101317-SS-DUP	1999	6.0L Can	10/06/17	250475	L1734842-02	Pass	-28.2	-5.9	-	-	-	-
L1737422-20	UNUSED CAN #1526	0201	Flow 5	10/06/17	250475		-	-	-	Pass	9.3	8.6	8
L1737422-20	UNUSED CAN #1526	1526	6.0L Can	10/06/17	250475	L1733456-02	Pass	-29.7	-30.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1731465
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01
Client ID: CAN 2108 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/07/17 17:09
Analyst: MB

Date Collected: 09/06/17 16:00
Date Received: 09/07/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1731465
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01
Client ID: CAN 2108 SHELF 58
Sample Location:
Date Collected: 09/06/17 16:00
Date Received: 09/07/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1731465

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01 Date Collected: 09/06/17 16:00

Client ID: CAN 2108 SHELF 58 Date Received: 09/07/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1731465
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01
Client ID: CAN 2108 SHELF 58
Sample Location:
Date Collected: 09/06/17 16:00
Date Received: 09/07/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1731465
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01
Client ID: CAN 2108 SHELF 58
Sample Location:
Date Collected: 09/06/17 16:00
Date Received: 09/07/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1731465
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01
Client ID: CAN 2108 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/07/17 17:09
Analyst: MB

Date Collected: 09/06/17 16:00
Date Received: 09/07/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1731465

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01 Date Collected: 09/06/17 16:00

Client ID: CAN 2108 SHELF 58 Date Received: 09/07/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1731465
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1731465-01
Client ID: CAN 2108 SHELF 58
Sample Location:
Date Collected: 09/06/17 16:00
Date Received: 09/07/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/16/17 16:26
Analyst: MB

Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1732899

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01 Date Collected: 09/14/17 16:00

Client ID: CAN 1982 SHELF 56 Date Received: 09/15/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/16/17 16:26
Analyst: MB

Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:

Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-01
Client ID: CAN 1982 SHELF 56
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03
Client ID: CAN 2269 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/16/17 17:31
Analyst: MB

Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03
Client ID: CAN 2269 SHELF 58
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1732899

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03 Date Collected: 09/14/17 16:00

Client ID: CAN 2269 SHELF 58 Date Received: 09/15/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03
Client ID: CAN 2269 SHELF 58
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1732899

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03 Date Collected: 09/14/17 16:00

Client ID: CAN 2269 SHELF 58 Date Received: 09/15/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1732899

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03
Client ID: CAN 2269 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/16/17 17:31
Analyst: MB

Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03
Client ID: CAN 2269 SHELF 58
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1732899
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1732899-03
Client ID: CAN 2269 SHELF 58
Sample Location:
Date Collected: 09/14/17 16:00
Date Received: 09/15/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/19/17 14:31
Analyst: RY

Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/19/17 14:31
Analyst: RY

Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-01
Client ID: CAN 2046 SHELF 45
Sample Location:

Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	102		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03
Client ID: CAN 951 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/19/17 15:36
Analyst: RY

Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03
Client ID: CAN 951 SHELF 51
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1733122

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03 Date Collected: 09/18/17 16:00

Client ID: CAN 951 SHELF 51 Date Received: 09/19/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03
Client ID: CAN 951 SHELF 51
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1733122

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03 Date Collected: 09/18/17 16:00

Client ID: CAN 951 SHELF 51 Date Received: 09/19/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03
Client ID: CAN 951 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/19/17 15:36
Analyst: RY

Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03
Client ID: CAN 951 SHELF 51
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733122
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733122-03
Client ID: CAN 951 SHELF 51
Sample Location:
Date Collected: 09/18/17 16:00
Date Received: 09/19/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/20/17 15:39
Analyst: RY

Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/20/17 15:39
Analyst: RY

Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-01
Client ID: CAN 1796 SHELF 41
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/20/17 16:12
Analyst: RY

Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/20/17 16:12
Analyst: RY

Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-02
Client ID: CAN 1526 SHELF 42
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/20/17 16:45
Analyst: RY

Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1733456

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03 Date Collected: 09/19/17 16:00

Client ID: CAN 2281 SHELF 43 Date Received: 09/20/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/20/17 16:45
Analyst: RY

Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733456
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733456-03
Client ID: CAN 2281 SHELF 43
Sample Location:
Date Collected: 09/19/17 16:00
Date Received: 09/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733860
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02
Client ID: CAN 950 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/22/17 16:16
Analyst: RY

Date Collected: 09/21/17 16:00
Date Received: 09/22/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1733860

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02 Date Collected: 09/21/17 16:00

Client ID: CAN 950 SHELF 41 Date Received: 09/22/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1733860

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02 Date Collected: 09/21/17 16:00

Client ID: CAN 950 SHELF 41 Date Received: 09/22/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733860
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02
Client ID: CAN 950 SHELF 41
Sample Location:
Date Collected: 09/21/17 16:00
Date Received: 09/22/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1733860

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02 Date Collected: 09/21/17 16:00

Client ID: CAN 950 SHELF 41 Date Received: 09/22/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733860
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02
Client ID: CAN 950 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/22/17 16:16
Analyst: RY

Date Collected: 09/21/17 16:00
Date Received: 09/22/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733860
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02
Client ID: CAN 950 SHELF 41
Sample Location:
Date Collected: 09/21/17 16:00
Date Received: 09/22/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1733860
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1733860-02
Client ID: CAN 950 SHELF 41
Sample Location:
Date Collected: 09/21/17 16:00
Date Received: 09/22/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/29/17 09:26
Analyst: RY

Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:

Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1734842

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02 Date Collected: 09/28/17 09:00

Client ID: CAN 943 SHELF 46 Date Received: 09/28/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/29/17 09:26
Analyst: RY

Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-02
Client ID: CAN 943 SHELF 46
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/29/17 09:59
Analyst: RY

Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/29/17 09:59
Analyst: RY

Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:

Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1734842
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1734842-03
Client ID: CAN 1655 SHELF 51
Sample Location:
Date Collected: 09/28/17 09:00
Date Received: 09/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/04/17 18:05
Analyst: RY

Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/04/17 18:05
Analyst: RY

Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:

Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-01
Client ID: CAN 1535 SHELF 47
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/04/17 18:39
Analyst: RY

Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:

Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1735634

Project Number: CANISTER QC BAT **Report Date:** 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02 Date Collected: 10/03/17 16:00

Client ID: CAN 2266 SHELF 52 Date Received: 10/04/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/04/17 18:39
Analyst: RY

Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1735634
Report Date: 12/19/17

Air Canister Certification Results

Lab ID: L1735634-02
Client ID: CAN 2266 SHELF 52
Sample Location:
Date Collected: 10/03/17 16:00
Date Received: 10/04/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140

Project Name: LOCKHEED MARTIN
Project Number: 50238

Lab Number: L1737422
Report Date: 12/19/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1737422-01A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-02A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-03A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-04A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-05A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-06A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-07A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-08A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-09A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-10A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1737422-11A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-12A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-13A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-14A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-15A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-16A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-17A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-18A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-19A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1737422-20A	Canister - 6 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1737422
Project Number:	50238	**Report Date:**	12/19/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1737422
Project Number:	50238	**Report Date:**	12/19/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1737422
Project Number:	50238	**Report Date:**	12/19/17

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 2

CHAIN OF CUSTODY

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

Date Rec'd in Lab:

ALPHA Job #: L1737422

Client Information

Client: OBG
Address: 7600 Morgan Rd
Liverpool NY 13090
Phone: 315-956-6674
Fax:
Email: eric.alongi@obg.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Groton NY
Project #:
Project Manager: Eric Alongi
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM LL	APH Subject Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
37422-01	FR-101017-IA-04	10/10/17	908	1656	29.67	6.83	AA	EA	6L	957	0498	X					
02	FR-101017-IA-03	10/10/17	907	1652	29.16	5.54	AA	EA	6L	2269	0212	X					
03	FR-101017-IA-10	10/10/17	920	1711	29.88	7.32	AA	EA	6L	2281	0087	X					
04	FR-101017-IA-05	10/10/17	922	1713	29.91	7.44	AA	EA	6L	950	0574	X					
05	FR-101017-IA-08	10/10/17	915	1716	29.50	13.52	AA	EA	6L	2266	0400	X					
06	FR-101017-AA	10/10/17	927	1729	29.43	5.55	AA	EA	6L	2108	087	X					
07	FR-101017-IA-07	10/10/17	913	1703	28.42	7.83	AA	EA	6L	1796	0475	X					
08	FR-101017-IA-09	10/10/17	917	1707	29.56	6.70	AA	EA	6L	2046	0550	X					
09	FR-101017-IA-06	10/10/17	911	1701	29.85	9.77	AA	EA	6L	1535	0379	X					
10	FR-101017-IA-JY	10/10/17	1245	1718	27.81	10.29	AA	EA	6L	1982	0843	X					

*SAMPLE MATRIX CODES

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

Container Type

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

	Relinquished By:	Date/Time	Received By:	Date/Time:
Dropped @ Service Center		10/16/17 1242		10/16/17 15:30
		10/16/17 1535		10/17/17 00:55
		10/17/17 0435		10/17/17 04:35

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 10/17/17

ALPHA Job #: L1737422

Client Information

Client: OBG
Address: 7600 Morgan Rd
Liverpool NY 13090
Phone: 315-956-6674
Fax:
Email: eric.alongi@obg.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Lockheed Martin
Project Location: Geddes NY
Project #:
Project Manager: Eric Alongi
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (subtract non-petroleum HCs)	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
37422-11	FR-101317-SS-28	10/13/17	700	1411	28.11	5.39	SV	EA	6L	1663	0242	X					
12	FR-101317-SS-29	10/13/17	640	1421	28.54	4.20	SV	EA	6L	1583	0772	X					
13	FR-101317-SS-25	10/13/17	720	1453	30.39	7.49	SV	EA	6L	2275	0433	X					
14	FR-101317-SS-30	10/13/17	647	1426	29.97	6.22	SV	EA	6L	1612	0405	X					
15	FR-101317-SS-23	10/13/17	709	1439	30.01	7.41	SV	EA	6L	2261	0422	X					
16	FR-101317-SS-27	10/13/17	730	1444	30.07	10.0	SV	EA	6L	1703	0048	X					
17	FR-101317-SS-24	10/13/17	714	1433	30.33	6.23	SV	EA	6L	2257	0949	X					
18	FR-101317-SS-26	10/13/17	725	1442	29.21	5.71	SV	EA	6L	980	0624	X					
19	FR-101317-SS-DUP	10/13/17	730	1444	~~30.07~~ 28.33	~~10.0~~ 6.29	SV	EA	6L	1999	0138	X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
Dropped off @ Service Center			
	10/16/17 1245	B Hamel AAL	10/16/17 19:30
	10/16/17 19:50		10/17/17 00:55
	10/17/17 0438		10/17/17 0435

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L1823802
Client:	O'Brien and Gere
	333 W. Washington Street
	Syracus, NY 13221
ATTN:	Eric Alongi
Phone:	(315) 956-6674
Project Name:	LOCKHEED MARTIN
Project Number:	64466
Report Date:	07/02/18

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1823802-01	FR-061918-SS-J1	SOIL_VAPOR	GEDDES, NY	06/19/18 19:20	06/22/18
L1823802-02	FR-061918-SS-M2	SOIL_VAPOR	GEDDES, NY	06/19/18 18:55	06/22/18
L1823802-03	FR-061918-SS-K3	SOIL_VAPOR	GEDDES, NY	06/19/18 19:03	06/22/18
L1823802-04	FR-061918-SS-E1	SOIL_VAPOR	GEDDES, NY	06/20/18 03:40	06/22/18
L1823802-05	FR-061918-SS-18	SOIL_VAPOR	GEDDES, NY	06/20/18 03:52	06/22/18
L1823802-06	FR-061918-SS-J5	SOIL_VAPOR	GEDDES, NY	06/20/18 03:56	06/22/18
L1823802-07	FR-061918-SS-17	SOIL_VAPOR	GEDDES, NY	06/20/18 04:03	06/22/18
L1823802-08	FR-061918-SS-08	SOIL_VAPOR	GEDDES, NY	06/19/18 19:16	06/22/18
L1823802-09	FR-061918-SSD-08	SOIL_VAPOR	GEDDES, NY	06/19/18 19:16	06/22/18
L1823802-10	FR-061918-SS-G2	SOIL_VAPOR	GEDDES, NY	06/19/18 19:25	06/22/18
L1823802-11	FR-061918-SS-06	SOIL_VAPOR	GEDDES, NY	06/19/18 19:12	06/22/18
L1823802-12	FR-061918-SS-B1	SOIL_VAPOR	GEDDES, NY	06/19/18 19:20	06/22/18
L1823802-13	FR-061918-SS-P1	SOIL_VAPOR	GEDDES, NY	06/19/18 19:19	06/22/18
L1823802-14	FR-061918-SS-23	SOIL_VAPOR	GEDDES, NY	06/19/18 19:18	06/22/18
L1823802-15	FR-061918-SS-J4	SOIL_VAPOR	GEDDES, NY	06/19/18 19:22	06/22/18
L1823802-16	UNUSED CANISTER 1987	SOIL_VAPOR	GEDDES, NY		06/22/18

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: LOCKHEED MARTIN **Lab Number:** L1823802
Project Number: 64466 **Report Date:** 07/02/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 18, 2018. The canister certification results are provided as an addendum.

L1823802-02, -03, -04, -08, -09, -10, -11, -13 -15: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in these samples.

L1823802-08 and -09 The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

L1823802-11: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for the compounds that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compounds that exceeded the calibration range.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 07/02/18

AIR

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-01
Client ID: FR-061918-SS-J1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:20
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 20:13
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.258	0.200	--	1.28	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.12	1.00	--	9.79	2.38	--		1
Trichlorofluoromethane	38.3	0.200	--	215	1.12	--		1
Isopropanol	0.546	0.500	--	1.34	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-01
Client ID: FR-061918-SS-J1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:20
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.219	0.200	--	0.772	0.705	--		1
1,1,1-Trichloroethane	13.8	0.200	--	75.3	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.554	0.200	--	2.09	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	1.45	0.200	--	6.68	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-01
Client ID: FR-061918-SS-J1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:20
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.549	0.400	--	2.38	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.299	0.200	--	1.27	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.355	0.200	--	1.54	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.366	0.200	--	1.80	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	1.64	0.200	--	9.86	1.20	--		1
1,2-Dichlorobenzene	1.02	0.200	--	6.13	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	82		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-02 D
Client ID: FR-061918-SS-M2
Sample Location: GEDDES, NY

Date Collected: 06/19/18 18:55
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 02:58
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	13.5	--	ND	66.8	--		67.39
Chloromethane	ND	13.5	--	ND	27.9	--		67.39
Freon-114	ND	13.5	--	ND	94.4	--		67.39
Vinyl chloride	ND	13.5	--	ND	34.5	--		67.39
1,3-Butadiene	ND	13.5	--	ND	29.9	--		67.39
Bromomethane	ND	13.5	--	ND	52.4	--		67.39
Chloroethane	ND	13.5	--	ND	35.6	--		67.39
Ethanol	ND	337	--	ND	635	--		67.39
Vinyl bromide	ND	13.5	--	ND	59.0	--		67.39
Acetone	ND	67.4	--	ND	160	--		67.39
Trichlorofluoromethane	27.9	13.5	--	157	75.9	--		67.39
Isopropanol	ND	33.7	--	ND	82.8	--		67.39
1,1-Dichloroethene	2890	13.5	--	11500	53.5	--		67.39
Tertiary butyl Alcohol	ND	33.7	--	ND	102	--		67.39
Methylene chloride	ND	33.7	--	ND	117	--		67.39
3-Chloropropene	ND	13.5	--	ND	42.3	--		67.39
Carbon disulfide	ND	13.5	--	ND	42.0	--		67.39
Freon-113	ND	13.5	--	ND	103	--		67.39
trans-1,2-Dichloroethene	ND	13.5	--	ND	53.5	--		67.39
1,1-Dichloroethane	880	13.5	--	3560	54.6	--		67.39
Methyl tert butyl ether	ND	13.5	--	ND	48.7	--		67.39
2-Butanone	ND	33.7	--	ND	99.4	--		67.39
cis-1,2-Dichloroethene	ND	13.5	--	ND	53.5	--		67.39

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-02 D
Client ID: FR-061918-SS-M2
Sample Location: GEDDES, NY

Date Collected: 06/19/18 18:55
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	33.7	--	ND	121	--		67.39
Chloroform	ND	13.5	--	ND	65.9	--		67.39
Tetrahydrofuran	ND	33.7	--	ND	99.4	--		67.39
1,2-Dichloroethane	ND	13.5	--	ND	54.6	--		67.39
n-Hexane	ND	13.5	--	ND	47.6	--		67.39
1,1,1-Trichloroethane	ND	13.5	--	ND	73.7	--		67.39
Benzene	ND	13.5	--	ND	43.1	--		67.39
Carbon tetrachloride	ND	13.5	--	ND	84.9	--		67.39
Cyclohexane	ND	13.5	--	ND	46.5	--		67.39
1,2-Dichloropropane	ND	13.5	--	ND	62.4	--		67.39
Bromodichloromethane	ND	13.5	--	ND	90.4	--		67.39
1,4-Dioxane	ND	13.5	--	ND	48.6	--		67.39
Trichloroethene	136	13.5	--	731	72.6	--		67.39
2,2,4-Trimethylpentane	ND	13.5	--	ND	63.1	--		67.39
Heptane	ND	13.5	--	ND	55.3	--		67.39
cis-1,3-Dichloropropene	ND	13.5	--	ND	61.3	--		67.39
4-Methyl-2-pentanone	ND	33.7	--	ND	138	--		67.39
trans-1,3-Dichloropropene	ND	13.5	--	ND	61.3	--		67.39
1,1,2-Trichloroethane	ND	13.5	--	ND	73.7	--		67.39
Toluene	ND	13.5	--	ND	50.9	--		67.39
2-Hexanone	ND	13.5	--	ND	55.3	--		67.39
Dibromochloromethane	ND	13.5	--	ND	115	--		67.39
1,2-Dibromoethane	ND	13.5	--	ND	104	--		67.39
Tetrachloroethene	ND	13.5	--	ND	91.5	--		67.39
Chlorobenzene	ND	13.5	--	ND	62.2	--		67.39
Ethylbenzene	ND	13.5	--	ND	58.6	--		67.39

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-02 D
Client ID: FR-061918-SS-M2
Sample Location: GEDDES, NY

Date Collected: 06/19/18 18:55
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	27.0	--	ND	117	--		67.39
Bromoform	ND	13.5	--	ND	140	--		67.39
Styrene	ND	13.5	--	ND	57.5	--		67.39
1,1,2,2-Tetrachloroethane	ND	13.5	--	ND	92.7	--		67.39
o-Xylene	ND	13.5	--	ND	58.6	--		67.39
4-Ethyltoluene	ND	13.5	--	ND	66.4	--		67.39
1,3,5-Trimethylbenzene	ND	13.5	--	ND	66.4	--		67.39
1,2,4-Trimethylbenzene	ND	13.5	--	ND	66.4	--		67.39
Benzyl chloride	ND	13.5	--	ND	69.9	--		67.39
1,3-Dichlorobenzene	ND	13.5	--	ND	81.2	--		67.39
1,4-Dichlorobenzene	ND	13.5	--	ND	81.2	--		67.39
1,2-Dichlorobenzene	ND	13.5	--	ND	81.2	--		67.39
1,2,4-Trichlorobenzene	ND	13.5	--	ND	100	--		67.39
Hexachlorobutadiene	ND	13.5	--	ND	144	--		67.39

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	79		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-03 D
Client ID: FR-061918-SS-K3
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:03
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 23:26
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	29.5	2.00	--	166	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	564	2.00	--	2240	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	41.7	2.00	--	169	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-03 D
Client ID: FR-061918-SS-K3
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:03
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	10.3	2.00	--	56.2	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	7.27	2.00	--	39.1	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	3.03	2.00	--	14.0	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-03 D
Client ID: FR-061918-SS-K3
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:03
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	2.06	2.00	--	12.4	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	67		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-04 D
Client ID: FR-061918-SS-E1
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:40
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 23:56
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	10.5	10.0	--	24.9	23.8	--		10
Trichlorofluoromethane	24.4	2.00	--	137	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	538	2.00	--	2130	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	10.1	2.00	--	40.9	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-04 D
Client ID: FR-061918-SS-E1
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:40
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	2.83	2.00	--	15.4	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-04 D
Client ID: FR-061918-SS-E1
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:40
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	2.33	2.00	--	14.0	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	79		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	76		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-05
Client ID: FR-061918-SS-18
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:52
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 20:45
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.359	0.200	--	1.78	0.989	--		1
Chloromethane	0.285	0.200	--	0.589	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	8.25	5.00	--	15.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.9	1.00	--	25.9	2.38	--		1
Trichlorofluoromethane	28.4	0.200	--	160	1.12	--		1
Isopropanol	2.95	0.500	--	7.25	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.26	0.500	--	7.85	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.720	0.500	--	2.12	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-05
Client ID: FR-061918-SS-18
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:52
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.28	0.500	--	4.61	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	4.13	0.500	--	12.2	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.759	0.200	--	2.67	0.705	--		1
1,1,1-Trichloroethane	1.60	0.200	--	8.73	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.777	0.200	--	2.67	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.331	0.200	--	1.36	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.92	0.200	--	7.24	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.244	0.200	--	1.65	1.36	--		1
Chlorobenzene	1.61	0.200	--	7.41	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-05
Client ID: FR-061918-SS-18
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:52
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.570	0.400	--	2.48	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.230	0.200	--	0.979	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.388	0.200	--	1.69	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.230	0.200	--	1.13	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	2.30	0.200	--	13.8	1.20	--		1
1,2-Dichlorobenzene	1.20	0.200	--	7.21	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	77		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	88		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-06
Client ID: FR-061918-SS-J5
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:56
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 21:18
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.250	0.200	--	1.24	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.36	1.00	--	3.23	2.38	--		1
Trichlorofluoromethane	36.3	0.200	--	204	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.02	0.500	--	3.54	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.490	0.200	--	1.53	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-06
Client ID: FR-061918-SS-J5
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:56
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.234	0.200	--	0.825	0.705	--		1
1,1,1-Trichloroethane	9.28	0.200	--	50.6	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.226	0.200	--	0.778	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.246	0.200	--	0.927	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.325	0.200	--	2.20	1.36	--		1
Chlorobenzene	1.89	0.200	--	8.70	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-06
Client ID: FR-061918-SS-J5
Sample Location: GEDDES, NY

Date Collected: 06/20/18 03:56
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.213	0.200	--	0.925	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	1.50	0.200	--	9.02	1.20	--		1
1,2-Dichlorobenzene	0.824	0.200	--	4.95	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	78		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-07
Client ID: FR-061918-SS-17
Sample Location: GEDDES, NY

Date Collected: 06/20/18 04:03
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 21:50
Analyst: GJ

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.318	0.200	--	1.57	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.6	1.00	--	25.2	2.38	--		1
Trichlorofluoromethane	41.4	0.200	--	233	1.12	--		1
Isopropanol	9.88	0.500	--	24.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.09	0.500	--	3.79	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-07
Client ID: FR-061918-SS-17
Sample Location: GEDDES, NY

Date Collected: 06/20/18 04:03
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.243	0.200	--	0.856	0.705	--		1
1,1,1-Trichloroethane	7.00	0.200	--	38.2	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.200	0.200	--	0.688	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.216	0.200	--	0.885	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.715	0.200	--	2.69	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.248	0.200	--	1.68	1.36	--		1
Chlorobenzene	2.54	0.200	--	11.7	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-07
Client ID: FR-061918-SS-17
Sample Location: GEDDES, NY

Date Collected: 06/20/18 04:03
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.667	0.400	--	2.90	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.427	0.200	--	1.82	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.502	0.200	--	2.18	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.370	0.200	--	1.82	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	3.64	0.200	--	21.9	1.20	--		1
1,2-Dichlorobenzene	1.85	0.200	--	11.1	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	74		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-08 D
Client ID: FR-061918-SS-08
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:16
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 01:57
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	4.00	--	ND	19.8	--		20
Chloromethane	ND	4.00	--	ND	8.26	--		20
Freon-114	ND	4.00	--	ND	28.0	--		20
Vinyl chloride	ND	4.00	--	ND	10.2	--		20
1,3-Butadiene	ND	4.00	--	ND	8.85	--		20
Bromomethane	ND	4.00	--	ND	15.5	--		20
Chloroethane	231	4.00	--	610	10.6	--		20
Ethanol	ND	100	--	ND	188	--		20
Vinyl bromide	ND	4.00	--	ND	17.5	--		20
Acetone	ND	20.0	--	ND	47.5	--		20
Trichlorofluoromethane	41.1	4.00	--	231	22.5	--		20
Isopropanol	ND	10.0	--	ND	24.6	--		20
1,1-Dichloroethene	1400	4.00	--	5550	15.9	--		20
Tertiary butyl Alcohol	ND	10.0	--	ND	30.3	--		20
Methylene chloride	ND	10.0	--	ND	34.7	--		20
3-Chloropropene	ND	4.00	--	ND	12.5	--		20
Carbon disulfide	ND	4.00	--	ND	12.5	--		20
Freon-113	ND	4.00	--	ND	30.7	--		20
trans-1,2-Dichloroethene	ND	4.00	--	ND	15.9	--		20
1,1-Dichloroethane	551	4.00	--	2230	16.2	--		20
Methyl tert butyl ether	ND	4.00	--	ND	14.4	--		20
2-Butanone	ND	10.0	--	ND	29.5	--		20
cis-1,2-Dichloroethene	ND	4.00	--	ND	15.9	--		20

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-08 D
Client ID: FR-061918-SS-08
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:16
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	10.0	--	ND	36.0	--		20
Chloroform	ND	4.00	--	ND	19.5	--		20
Tetrahydrofuran	ND	10.0	--	ND	29.5	--		20
1,2-Dichloroethane	ND	4.00	--	ND	16.2	--		20
n-Hexane	ND	4.00	--	ND	14.1	--		20
1,1,1-Trichloroethane	814	4.00	--	4440	21.8	--		20
Benzene	ND	4.00	--	ND	12.8	--		20
Carbon tetrachloride	ND	4.00	--	ND	25.2	--		20
Cyclohexane	ND	4.00	--	ND	13.8	--		20
1,2-Dichloropropane	ND	4.00	--	ND	18.5	--		20
Bromodichloromethane	ND	4.00	--	ND	26.8	--		20
1,4-Dioxane	ND	4.00	--	ND	14.4	--		20
Trichloroethene	5.64	4.00	--	30.3	21.5	--		20
2,2,4-Trimethylpentane	ND	4.00	--	ND	18.7	--		20
Heptane	ND	4.00	--	ND	16.4	--		20
cis-1,3-Dichloropropene	ND	4.00	--	ND	18.2	--		20
4-Methyl-2-pentanone	ND	10.0	--	ND	41.0	--		20
trans-1,3-Dichloropropene	ND	4.00	--	ND	18.2	--		20
1,1,2-Trichloroethane	ND	4.00	--	ND	21.8	--		20
Toluene	ND	4.00	--	ND	15.1	--		20
2-Hexanone	ND	4.00	--	ND	16.4	--		20
Dibromochloromethane	ND	4.00	--	ND	34.1	--		20
1,2-Dibromoethane	ND	4.00	--	ND	30.7	--		20
Tetrachloroethene	4.94	4.00	--	33.5	27.1	--		20
Chlorobenzene	ND	4.00	--	ND	18.4	--		20
Ethylbenzene	ND	4.00	--	ND	17.4	--		20

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-08 D
Client ID: FR-061918-SS-08
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:16
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	8.00	--	ND	34.7	--		20
Bromoform	ND	4.00	--	ND	41.4	--		20
Styrene	ND	4.00	--	ND	17.0	--		20
1,1,2,2-Tetrachloroethane	ND	4.00	--	ND	27.5	--		20
o-Xylene	ND	4.00	--	ND	17.4	--		20
4-Ethyltoluene	ND	4.00	--	ND	19.7	--		20
1,3,5-Trimethylbenzene	ND	4.00	--	ND	19.7	--		20
1,2,4-Trimethylbenzene	ND	4.00	--	ND	19.7	--		20
Benzyl chloride	ND	4.00	--	ND	20.7	--		20
1,3-Dichlorobenzene	ND	4.00	--	ND	24.0	--		20
1,4-Dichlorobenzene	ND	4.00	--	ND	24.0	--		20
1,2-Dichlorobenzene	ND	4.00	--	ND	24.0	--		20
1,2,4-Trichlorobenzene	ND	4.00	--	ND	29.7	--		20
Hexachlorobutadiene	ND	4.00	--	ND	42.7	--		20

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-09 D
Client ID: FR-061918-SSD-08
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:16
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 02:27
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	3.98	--	ND	19.7	--		19.9
Chloromethane	ND	3.98	--	ND	8.22	--		19.9
Freon-114	ND	3.98	--	ND	27.8	--		19.9
Vinyl chloride	ND	3.98	--	ND	10.2	--		19.9
1,3-Butadiene	ND	3.98	--	ND	8.80	--		19.9
Bromomethane	ND	3.98	--	ND	15.5	--		19.9
Chloroethane	222	3.98	--	586	10.5	--		19.9
Ethanol	ND	99.5	--	ND	187	--		19.9
Vinyl bromide	ND	3.98	--	ND	17.4	--		19.9
Acetone	ND	19.9	--	ND	47.3	--		19.9
Trichlorofluoromethane	40.8	3.98	--	229	22.4	--		19.9
Isopropanol	ND	9.95	--	ND	24.5	--		19.9
1,1-Dichloroethene	1360	3.98	--	5390	15.8	--		19.9
Tertiary butyl Alcohol	ND	9.95	--	ND	30.2	--		19.9
Methylene chloride	ND	9.95	--	ND	34.6	--		19.9
3-Chloropropene	ND	3.98	--	ND	12.5	--		19.9
Carbon disulfide	ND	3.98	--	ND	12.4	--		19.9
Freon-113	ND	3.98	--	ND	30.5	--		19.9
trans-1,2-Dichloroethene	ND	3.98	--	ND	15.8	--		19.9
1,1-Dichloroethane	544	3.98	--	2200	16.1	--		19.9
Methyl tert butyl ether	ND	3.98	--	ND	14.3	--		19.9
2-Butanone	ND	9.95	--	ND	29.3	--		19.9
cis-1,2-Dichloroethene	ND	3.98	--	ND	15.8	--		19.9

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-09 D
Client ID: FR-061918-SSD-08
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:16
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	9.95	--	ND	35.9	--		19.9
Chloroform	ND	3.98	--	ND	19.4	--		19.9
Tetrahydrofuran	ND	9.95	--	ND	29.3	--		19.9
1,2-Dichloroethane	ND	3.98	--	ND	16.1	--		19.9
n-Hexane	ND	3.98	--	ND	14.0	--		19.9
1,1,1-Trichloroethane	810	3.98	--	4420	21.7	--		19.9
Benzene	ND	3.98	--	ND	12.7	--		19.9
Carbon tetrachloride	ND	3.98	--	ND	25.0	--		19.9
Cyclohexane	ND	3.98	--	ND	13.7	--		19.9
1,2-Dichloropropane	ND	3.98	--	ND	18.4	--		19.9
Bromodichloromethane	ND	3.98	--	ND	26.7	--		19.9
1,4-Dioxane	ND	3.98	--	ND	14.3	--		19.9
Trichloroethene	5.17	3.98	--	27.8	21.4	--		19.9
2,2,4-Trimethylpentane	ND	3.98	--	ND	18.6	--		19.9
Heptane	ND	3.98	--	ND	16.3	--		19.9
cis-1,3-Dichloropropene	ND	3.98	--	ND	18.1	--		19.9
4-Methyl-2-pentanone	ND	9.95	--	ND	40.8	--		19.9
trans-1,3-Dichloropropene	ND	3.98	--	ND	18.1	--		19.9
1,1,2-Trichloroethane	ND	3.98	--	ND	21.7	--		19.9
Toluene	ND	3.98	--	ND	15.0	--		19.9
2-Hexanone	ND	3.98	--	ND	16.3	--		19.9
Dibromochloromethane	ND	3.98	--	ND	33.9	--		19.9
1,2-Dibromoethane	ND	3.98	--	ND	30.6	--		19.9
Tetrachloroethene	4.92	3.98	--	33.4	27.0	--		19.9
Chlorobenzene	ND	3.98	--	ND	18.3	--		19.9
Ethylbenzene	ND	3.98	--	ND	17.3	--		19.9

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-09 D
Client ID: FR-061918-SSD-08
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:16
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	7.96	--	ND	34.6	--		19.9
Bromoform	ND	3.98	--	ND	41.2	--		19.9
Styrene	ND	3.98	--	ND	16.9	--		19.9
1,1,2,2-Tetrachloroethane	ND	3.98	--	ND	27.3	--		19.9
o-Xylene	ND	3.98	--	ND	17.3	--		19.9
4-Ethyltoluene	ND	3.98	--	ND	19.6	--		19.9
1,3,5-Trimethylbenzene	ND	3.98	--	ND	19.6	--		19.9
1,2,4-Trimethylbenzene	ND	3.98	--	ND	19.6	--		19.9
Benzyl chloride	ND	3.98	--	ND	20.6	--		19.9
1,3-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.9
1,4-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.9
1,2-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.9
1,2,4-Trichlorobenzene	ND	3.98	--	ND	29.5	--		19.9
Hexachlorobutadiene	ND	3.98	--	ND	42.5	--		19.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	81		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-10 D
Client ID: FR-061918-SS-G2
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:25
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 07:34
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	17.7	2.00	--	99.5	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	3.01	2.00	--	11.9	7.93	--		10

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-10 D
Client ID: FR-061918-SS-G2
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:25
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	6.28	2.00	--	30.7	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	3.90	2.00	--	21.3	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	681	2.00	--	3660	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-10 D
Client ID: FR-061918-SS-G2
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:25
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	69		60-140
Bromochloromethane	76		60-140
chlorobenzene-d5	60		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-11 D
Client ID: FR-061918-SS-06
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:12
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 03:28
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	15.4	--	ND	76.1	--		77.16
Chloromethane	ND	15.4	--	ND	31.8	--		77.16
Freon-114	ND	15.4	--	ND	108	--		77.16
Vinyl chloride	ND	15.4	--	ND	39.4	--		77.16
1,3-Butadiene	ND	15.4	--	ND	34.1	--		77.16
Bromomethane	ND	15.4	--	ND	59.8	--		77.16
Chloroethane	ND	15.4	--	ND	40.6	--		77.16
Ethanol	ND	386	--	ND	727	--		77.16
Vinyl bromide	ND	15.4	--	ND	67.3	--		77.16
Acetone	ND	77.2	--	ND	183	--		77.16
Trichlorofluoromethane	45.2	15.4	--	254	86.5	--		77.16
Isopropanol	ND	38.6	--	ND	94.9	--		77.16
1,1-Dichloroethene	7860	15.4	--	31200	61.1	--	E	77.16
Tertiary butyl Alcohol	ND	38.6	--	ND	117	--		77.16
Methylene chloride	ND	38.6	--	ND	134	--		77.16
3-Chloropropene	ND	15.4	--	ND	48.2	--		77.16
Carbon disulfide	ND	15.4	--	ND	48.0	--		77.16
Freon-113	ND	15.4	--	ND	118	--		77.16
trans-1,2-Dichloroethene	ND	15.4	--	ND	61.1	--		77.16
1,1-Dichloroethane	2000	15.4	--	8090	62.3	--		77.16
Methyl tert butyl ether	ND	15.4	--	ND	55.5	--		77.16
2-Butanone	ND	38.6	--	ND	114	--		77.16
cis-1,2-Dichloroethene	ND	15.4	--	ND	61.1	--		77.16

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-11 D
Client ID: FR-061918-SS-06
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:12
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	38.6	--	ND	139	--		77.16
Chloroform	ND	15.4	--	ND	75.2	--		77.16
Tetrahydrofuran	ND	38.6	--	ND	114	--		77.16
1,2-Dichloroethane	17.9	15.4	--	72.4	62.3	--		77.16
n-Hexane	ND	15.4	--	ND	54.3	--		77.16
1,1,1-Trichloroethane	24.2	15.4	--	132	84.0	--		77.16
Benzene	ND	15.4	--	ND	49.2	--		77.16
Carbon tetrachloride	ND	15.4	--	ND	96.9	--		77.16
Cyclohexane	ND	15.4	--	ND	53.0	--		77.16
1,2-Dichloropropane	ND	15.4	--	ND	71.2	--		77.16
Bromodichloromethane	ND	15.4	--	ND	103	--		77.16
1,4-Dioxane	ND	15.4	--	ND	55.5	--		77.16
Trichloroethene	238	15.4	--	1280	82.8	--		77.16
2,2,4-Trimethylpentane	ND	15.4	--	ND	71.9	--		77.16
Heptane	ND	15.4	--	ND	63.1	--		77.16
cis-1,3-Dichloropropene	ND	15.4	--	ND	69.9	--		77.16
4-Methyl-2-pentanone	ND	38.6	--	ND	158	--		77.16
trans-1,3-Dichloropropene	ND	15.4	--	ND	69.9	--		77.16
1,1,2-Trichloroethane	ND	15.4	--	ND	84.0	--		77.16
Toluene	ND	15.4	--	ND	58.0	--		77.16
2-Hexanone	ND	15.4	--	ND	63.1	--		77.16
Dibromochloromethane	ND	15.4	--	ND	131	--		77.16
1,2-Dibromoethane	ND	15.4	--	ND	118	--		77.16
Tetrachloroethene	ND	15.4	--	ND	104	--		77.16
Chlorobenzene	ND	15.4	--	ND	70.9	--		77.16
Ethylbenzene	ND	15.4	--	ND	66.9	--		77.16

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-11 D
Client ID: FR-061918-SS-06
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:12
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	30.9	--	ND	134	--		77.16
Bromoform	ND	15.4	--	ND	159	--		77.16
Styrene	ND	15.4	--	ND	65.6	--		77.16
1,1,2,2-Tetrachloroethane	ND	15.4	--	ND	106	--		77.16
o-Xylene	ND	15.4	--	ND	66.9	--		77.16
4-Ethyltoluene	ND	15.4	--	ND	75.7	--		77.16
1,3,5-Trimethylbenzene	ND	15.4	--	ND	75.7	--		77.16
1,2,4-Trimethylbenzene	ND	15.4	--	ND	75.7	--		77.16
Benzyl chloride	ND	15.4	--	ND	79.7	--		77.16
1,3-Dichlorobenzene	ND	15.4	--	ND	92.6	--		77.16
1,4-Dichlorobenzene	ND	15.4	--	ND	92.6	--		77.16
1,2-Dichlorobenzene	ND	15.4	--	ND	92.6	--		77.16
1,2,4-Trichlorobenzene	ND	15.4	--	ND	114	--		77.16
Hexachlorobutadiene	ND	15.4	--	ND	164	--		77.16

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	79		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	79		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-11 D2
Client ID: FR-061918-SS-06
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:12
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 08:05
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1-Dichloroethene	7650	38.5	--	30300	153	--		192.3

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	82		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	77		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-12
Client ID: FR-061918-SS-B1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:20
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 22:23
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.308	0.200	--	1.52	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.89	1.00	--	6.87	2.38	--		1
Trichlorofluoromethane	37.3	0.200	--	210	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.242	0.200	--	0.754	0.623	--		1
Freon-113	0.232	0.200	--	1.78	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-12
Client ID: FR-061918-SS-B1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:20
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.220	0.200	--	0.775	0.705	--		1
1,1,1-Trichloroethane	23.8	0.200	--	130	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.598	0.200	--	2.25	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	2.46	0.200	--	11.3	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-12
Client ID: FR-061918-SS-B1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:20
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.549	0.400	--	2.38	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.366	0.200	--	1.59	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.241	0.200	--	1.18	0.983	--		1
1,2,4-Trimethylbenzene	0.732	0.200	--	3.60	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	7.38	0.200	--	44.4	1.20	--		1
1,2-Dichlorobenzene	4.16	0.200	--	25.0	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	86		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-13 D
Client ID: FR-061918-SS-P1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:19
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 01:27
Analyst: GJ

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.400	--	ND	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	21.1	10.0	--	39.8	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	21.5	2.00	--	51.1	4.75	--		2
Trichlorofluoromethane	23.6	0.400	--	133	2.25	--		2
Isopropanol	1.22	1.00	--	3.00	2.46	--		2
1,1-Dichloroethene	2.70	0.400	--	10.7	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
Freon-113	1.07	0.400	--	8.20	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	10.5	0.400	--	42.5	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	ND	1.00	--	ND	2.95	--		2
cis-1,2-Dichloroethene	0.442	0.400	--	1.75	1.59	--		2

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-13 D
Client ID: FR-061918-SS-P1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:19
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	ND	0.400	--	ND	1.41	--		2
1,1,1-Trichloroethane	184	0.400	--	1000	2.18	--		2
Benzene	ND	0.400	--	ND	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	1.59	0.400	--	5.73	1.44	--		2
Trichloroethene	23.5	0.400	--	126	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	ND	0.400	--	ND	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	1.15	0.400	--	4.33	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	0.810	0.400	--	5.49	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	ND	0.400	--	ND	1.74	--		2

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-13 D
Client ID: FR-061918-SS-P1
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:19
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.800	--	ND	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	ND	0.400	--	ND	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	0.656	0.400	--	3.22	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	77		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	79		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-14
Client ID: FR-061918-SS-23
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:18
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/29/18 22:55
Analyst: GJ

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.353	0.200	--	1.75	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.00	1.00	--	11.9	2.38	--		1
Trichlorofluoromethane	24.7	0.200	--	139	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.242	0.200	--	0.754	0.623	--		1
Freon-113	0.722	0.200	--	5.53	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-14
Client ID: FR-061918-SS-23
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:18
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.54	0.500	--	4.54	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	25.7	0.200	--	140	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	0.201	0.200	--	1.26	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.07	0.200	--	4.03	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-14
Client ID: FR-061918-SS-23
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:18
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	2.56	0.200	--	10.9	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.390	0.200	--	1.69	0.869	--		1
4-Ethyltoluene	0.454	0.200	--	2.23	0.983	--		1
1,3,5-Trimethylbenzene	0.793	0.200	--	3.90	0.983	--		1
1,2,4-Trimethylbenzene	2.11	0.200	--	10.4	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	0.705	0.200	--	4.24	1.20	--		1
1,2-Dichlorobenzene	0.452	0.200	--	2.72	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	84		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-15 D
Client ID: FR-061918-SS-J4
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:22
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/18 04:01
Analyst: GJ

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	7.23	--	ND	35.8	--		36.13
Chloromethane	ND	7.23	--	ND	14.9	--		36.13
Freon-114	ND	7.23	--	ND	50.5	--		36.13
Vinyl chloride	ND	7.23	--	ND	18.5	--		36.13
1,3-Butadiene	ND	7.23	--	ND	16.0	--		36.13
Bromomethane	ND	7.23	--	ND	28.1	--		36.13
Chloroethane	ND	7.23	--	ND	19.1	--		36.13
Ethanol	ND	181	--	ND	341	--		36.13
Vinyl bromide	ND	7.23	--	ND	31.6	--		36.13
Acetone	ND	36.1	--	ND	85.8	--		36.13
Trichlorofluoromethane	29.9	7.23	--	168	40.6	--		36.13
Isopropanol	ND	18.1	--	ND	44.5	--		36.13
1,1-Dichloroethene	2250	7.23	--	8920	28.7	--		36.13
Tertiary butyl Alcohol	ND	18.1	--	ND	54.9	--		36.13
Methylene chloride	ND	18.1	--	ND	62.9	--		36.13
3-Chloropropene	ND	7.23	--	ND	22.6	--		36.13
Carbon disulfide	ND	7.23	--	ND	22.5	--		36.13
Freon-113	ND	7.23	--	ND	55.4	--		36.13
trans-1,2-Dichloroethene	ND	7.23	--	ND	28.7	--		36.13
1,1-Dichloroethane	178	7.23	--	720	29.3	--		36.13
Methyl tert butyl ether	ND	7.23	--	ND	26.1	--		36.13
2-Butanone	ND	18.1	--	ND	53.4	--		36.13
cis-1,2-Dichloroethene	ND	7.23	--	ND	28.7	--		36.13

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-15 D
Client ID: FR-061918-SS-J4
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:22
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	18.1	--	ND	65.2	--		36.13
Chloroform	ND	7.23	--	ND	35.3	--		36.13
Tetrahydrofuran	ND	18.1	--	ND	53.4	--		36.13
1,2-Dichloroethane	ND	7.23	--	ND	29.3	--		36.13
n-Hexane	ND	7.23	--	ND	25.5	--		36.13
1,1,1-Trichloroethane	217	7.23	--	1180	39.4	--		36.13
Benzene	ND	7.23	--	ND	23.1	--		36.13
Carbon tetrachloride	ND	7.23	--	ND	45.5	--		36.13
Cyclohexane	ND	7.23	--	ND	24.9	--		36.13
1,2-Dichloropropane	ND	7.23	--	ND	33.4	--		36.13
Bromodichloromethane	ND	7.23	--	ND	48.4	--		36.13
1,4-Dioxane	ND	7.23	--	ND	26.1	--		36.13
Trichloroethene	ND	7.23	--	ND	38.9	--		36.13
2,2,4-Trimethylpentane	ND	7.23	--	ND	33.8	--		36.13
Heptane	ND	7.23	--	ND	29.6	--		36.13
cis-1,3-Dichloropropene	ND	7.23	--	ND	32.8	--		36.13
4-Methyl-2-pentanone	ND	18.1	--	ND	74.2	--		36.13
trans-1,3-Dichloropropene	ND	7.23	--	ND	32.8	--		36.13
1,1,2-Trichloroethane	ND	7.23	--	ND	39.4	--		36.13
Toluene	ND	7.23	--	ND	27.2	--		36.13
2-Hexanone	ND	7.23	--	ND	29.6	--		36.13
Dibromochloromethane	ND	7.23	--	ND	61.6	--		36.13
1,2-Dibromoethane	ND	7.23	--	ND	55.6	--		36.13
Tetrachloroethene	ND	7.23	--	ND	49.0	--		36.13
Chlorobenzene	ND	7.23	--	ND	33.3	--		36.13
Ethylbenzene	ND	7.23	--	ND	31.4	--		36.13

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

SAMPLE RESULTS

Lab ID: L1823802-15 D
Client ID: FR-061918-SS-J4
Sample Location: GEDDES, NY

Date Collected: 06/19/18 19:22
Date Received: 06/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	14.4	--	ND	62.5	--		36.13
Bromoform	ND	7.23	--	ND	74.8	--		36.13
Styrene	ND	7.23	--	ND	30.8	--		36.13
1,1,2,2-Tetrachloroethane	ND	7.23	--	ND	49.6	--		36.13
o-Xylene	ND	7.23	--	ND	31.4	--		36.13
4-Ethyltoluene	ND	7.23	--	ND	35.5	--		36.13
1,3,5-Trimethylbenzene	ND	7.23	--	ND	35.5	--		36.13
1,2,4-Trimethylbenzene	ND	7.23	--	ND	35.5	--		36.13
Benzyl chloride	ND	7.23	--	ND	37.4	--		36.13
1,3-Dichlorobenzene	ND	7.23	--	ND	43.5	--		36.13
1,4-Dichlorobenzene	ND	7.23	--	ND	43.5	--		36.13
1,2-Dichlorobenzene	ND	7.23	--	ND	43.5	--		36.13
1,2,4-Trichlorobenzene	ND	7.23	--	ND	53.7	--		36.13
Hexachlorobutadiene	ND	7.23	--	ND	77.1	--		36.13

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	80		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/18 17:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-15 Batch: WG1131329-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466
Lab Number: L1823802
Report Date: 07/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/18 17:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-15 Batch: WG1131329-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/18 17:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-15 Batch: WG1131329-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 Batch: WG1131329-3								
Chlorodifluoromethane	80		-		70-130	-		
Propylene	101		-		70-130	-		
Propane	98		-		70-130	-		
Dichlorodifluoromethane	83		-		70-130	-		
Chloromethane	111		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	110		-		70-130	-		
Methanol	124		-		70-130	-		
Vinyl chloride	105		-		70-130	-		
1,3-Butadiene	118		-		70-130	-		
Butane	103		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	109		-		70-130	-		
Ethyl Alcohol	123		-		70-130	-		
Dichlorofluoromethane	103		-		70-130	-		
Vinyl bromide	104		-		70-130	-		
Acrolein	86		-		70-130	-		
Acetone	103		-		70-130	-		
Acetonitrile	118		-		70-130	-		
Trichlorofluoromethane	109		-		70-130	-		
iso-Propyl Alcohol	95		-		70-130	-		
Acrylonitrile	102		-		70-130	-		
Pentane	108		-		70-130	-		
Ethyl ether	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 Batch: WG1131329-3								
1,1-Dichloroethene	109		-		70-130	-		
tert-Butyl Alcohol	103		-		70-130	-		
Methylene chloride	121		-		70-130	-		
3-Chloropropene	120		-		70-130	-		
Carbon disulfide	110		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	108		-		70-130	-		
trans-1,2-Dichloroethene	78		-		70-130	-		
1,1-Dichloroethane	81		-		70-130	-		
Methyl tert butyl ether	77		-		70-130	-		
Vinyl acetate	102		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	79		-		70-130	-		
Ethyl Acetate	103		-		70-130	-		
Chloroform	87		-		70-130	-		
Tetrahydrofuran	84		-		70-130	-		
2,2-Dichloropropane	76		-		70-130	-		
1,2-Dichloroethane	83		-		70-130	-		
n-Hexane	104		-		70-130	-		
Isopropyl Ether	92		-		70-130	-		
Ethyl-Tert-Butyl-Ether	88		-		70-130	-		
1,1,1-Trichloroethane	91		-		70-130	-		
1,1-Dichloropropene	87		-		70-130	-		
Benzene	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 Batch: WG1131329-3								
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	97		-		70-130	-		
Tertiary-Amyl Methyl Ether	78		-		70-130	-		
Dibromomethane	93		-		70-130	-		
1,2-Dichloropropane	97		-		70-130	-		
Bromodichloromethane	104		-		70-130	-		
1,4-Dioxane	97		-		70-130	-		
Trichloroethene	94		-		70-130	-		
2,2,4-Trimethylpentane	104		-		70-130	-		
Methyl Methacrylate	84		-		70-130	-		
Heptane	110		-		70-130	-		
cis-1,3-Dichloropropene	96		-		70-130	-		
4-Methyl-2-pentanone	115		-		70-130	-		
trans-1,3-Dichloropropene	78		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	88		-		70-130	-		
1,3-Dichloropropane	85		-		70-130	-		
2-Hexanone	115		-		70-130	-		
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	91		-		70-130	-		
Butyl Acetate	82		-		70-130	-		
Octane	80		-		70-130	-		
Tetrachloroethene	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 Batch: WG1131329-3								
1,1,1,2-Tetrachloroethane	87		-		70-130	-		
Chlorobenzene	90		-		70-130	-		
Ethylbenzene	88		-		70-130	-		
p/m-Xylene	91		-		70-130	-		
Bromoform	102		-		70-130	-		
Styrene	87		-		70-130	-		
1,1,2,2-Tetrachloroethane	103		-		70-130	-		
o-Xylene	95		-		70-130	-		
1,2,3-Trichloropropane	87		-		70-130	-		
Nonane (C9)	100		-		70-130	-		
Isopropylbenzene	87		-		70-130	-		
Bromobenzene	84		-		70-130	-		
o-Chlorotoluene	85		-		70-130	-		
n-Propylbenzene	88		-		70-130	-		
p-Chlorotoluene	83		-		70-130	-		
4-Ethyltoluene	91		-		70-130	-		
1,3,5-Trimethylbenzene	88		-		70-130	-		
tert-Butylbenzene	95		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Decane (C10)	96		-		70-130	-		
Benzyl chloride	102		-		70-130	-		
1,3-Dichlorobenzene	95		-		70-130	-		
1,4-Dichlorobenzene	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 Batch: WG1131329-3								
sec-Butylbenzene	92		-		70-130	-		
p-Isopropyltoluene	85		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
n-Butylbenzene	97		-		70-130	-		
1,2-Dibromo-3-chloropropane	94		-		70-130	-		
Undecane	116		-		70-130	-		
Dodecane (C12)	**133**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	114		-		70-130	-		
Naphthalene	99		-		70-130	-		
1,2,3-Trichlorobenzene	106		-		70-130	-		
Hexachlorobutadiene	112		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1131329-5 QC Sample: L1823802-04 Client ID: FR-061918-SS-E1						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	10.5	10.2	ppbV	3		25
Trichlorofluoromethane	24.4	23.9	ppbV	2		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	538	515	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	10.1	9.85	ppbV	3		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1131329-5 QC Sample: L1823802-04 Client ID: FR-061918-SS-E1						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	2.83	2.70	ppbV	5		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-15 QC Batch ID: WG1131329-5 QC Sample: L1823802-04 Client ID: FR-061918-SS-E1						
Toluene	ND	ND	ppbV	NC		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	2.33	2.15	ppbV	8		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: LOCKHEED MARTIN

Lab Number: L1823802

Project Number: 64466

Report Date: 07/02/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1823802-01	FR-061918-SS-J1	0014	Flow 3	06/18/18	267772		-	-	-	Pass	10.0	11.8	17
L1823802-01	FR-061918-SS-J1	1625	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-5.6	-	-	-	-
L1823802-02	FR-061918-SS-M2	0951	Flow 4	06/18/18	267772		-	-	-	Pass	10.0	10.4	4
L1823802-02	FR-061918-SS-M2	903	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-5.5	-	-	-	-
L1823802-03	FR-061918-SS-K3	0048	Flow 4	06/18/18	267772		-	-	-	Pass	10.0	10.3	3
L1823802-03	FR-061918-SS-K3	635	6.0L Can	06/18/18	267772	L1822000-01	Pass	-29.7	-7.4	-	-	-	-
L1823802-04	FR-061918-SS-E1	0829	Flow 5	06/18/18	267772		-	-	-	Pass	9.9	10.2	3
L1823802-04	FR-061918-SS-E1	1709	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-4.9	-	-	-	-
L1823802-05	FR-061918-SS-18	0437	Flow 5	06/18/18	267772		-	-	-	Pass	9.9	8.3	18
L1823802-05	FR-061918-SS-18	919	6.0L Can	06/18/18	267772	L1822000-01	Pass	-29.4	-6.4	-	-	-	-
L1823802-06	FR-061918-SS-J5	01056	Flow 5	06/18/18	267772		-	-	-	Pass	10.0	9.4	6
L1823802-06	FR-061918-SS-J5	780	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-6.9	-	-	-	-
L1823802-07	FR-061918-SS-17	0340	Flow 5	06/18/18	267772		-	-	-	Pass	10.0	9.2	8
L1823802-07	FR-061918-SS-17	2285	6.0L Can	06/18/18	267772	L1822000-01	Pass	-29.7	-7.2	-	-	-	-
L1823802-08	FR-061918-SS-08	0068	Flow 4	06/18/18	267772		-	-	-	Pass	9.9	9.9	0

Project Name: LOCKHEED MARTIN

Project Number: 64466

Lab Number: L1823802

Report Date: 07/02/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1823802-08	FR-061918-SS-08	2275	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-6.0	-	-	-	-
L1823802-09	FR-061918-SSD-08	01060	Flow 5	06/18/18	267772		-	-	-	Pass	9.9	8.7	13
L1823802-09	FR-061918-SSD-08	2064	6.0L Can	06/18/18	267772	L1821774-03	Pass	-29.7	-7.4	-	-	-	-
L1823802-10	FR-061918-SS-G2	0904	Flow 4	06/18/18	267772		-	-	-	Pass	10.0	9.3	7
L1823802-10	FR-061918-SS-G2	1038	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-15.8	-	-	-	-
L1823802-11	FR-061918-SS-06	0201	Flow 5	06/18/18	267772		-	-	-	Pass	9.4	9.0	4
L1823802-11	FR-061918-SS-06	760	6.0L Can	06/18/18	267772	L1821886-01	Pass	-29.7	-8.6	-	-	-	-
L1823802-12	FR-061918-SS-B1	0556	Flow 4	06/18/18	267772		-	-	-	Pass	10.0	10.7	7
L1823802-12	FR-061918-SS-B1	1778	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-6.2	-	-	-	-
L1823802-13	FR-061918-SS-P1	0618	Flow 5	06/18/18	267772		-	-	-	Pass	10.0	9.9	1
L1823802-13	FR-061918-SS-P1	691	6.0L Can	06/18/18	267772	L1821886-01	Pass	-29.7	-5.6	-	-	-	-
L1823802-14	FR-061918-SS-23	0242	Flow 4	06/18/18	267772		-	-	-	Pass	10.0	10.1	1
L1823802-14	FR-061918-SS-23	2322	6.0L Can	06/18/18	267772	L1821886-01	Pass	-29.7	-6.4	-	-	-	-
L1823802-15	FR-061918-SS-J4	0492	Flow 5	06/18/18	267772		-	-	-	Pass	9.9	9.7	2
L1823802-15	FR-061918-SS-J4	1553	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.7	-7.1	-	-	-	-

Project Name: LOCKHEED MARTIN

Lab Number: L1823802

Project Number: 64466

Report Date: 07/02/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1823802-16	UNUSED CANISTER 1987	0341	Flow 5	06/18/18	267772		-	-	-	Pass	10.0	10.0	0
L1823802-16	UNUSED CANISTER 1987	1987	6.0L Can	06/18/18	267772	L1821886-02	Pass	-29.5	-29.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/12/18 17:23
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/12/18 17:23
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1821774
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821774-03
Client ID: CAN 1973 SHELF 43
Sample Location:

Date Collected: 06/11/18 16:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/12/18 19:00
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	82		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/12/18 19:00
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1821886

Project Number: CANISTER QC BAT **Report Date:** 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-01
Client ID: CAN 1548 SHELF 47
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	85		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/12/18 19:32
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	79		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/12/18 19:32
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1821886
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1821886-02
Client ID: CAN 1651 SHELF 48
Sample Location:

Date Collected: 06/12/18 09:00
Date Received: 06/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	81		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/13/18 15:39
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Acetaldehyde	ND	2.50	--	ND	4.50	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Thiophene	ND	0.200	--	ND	0.688	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Methylthiophene	ND	0.200	--	ND	0.803	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
3-Methylthiophene	ND	0.200	--	ND	0.803	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
2-Ethylthiophene	ND	0.200	--	ND	0.918	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Indane	ND	0.200	--	ND	0.967	--		1
Indene	ND	0.200	--	ND	0.951	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
1,2,4,5-Tetramethylbenzene	ND	0.200	--	ND	1.10	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Benzothiophene	ND	0.500	--	ND	2.74	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1
2-Methylnaphthalene	ND	1.00	--	ND	5.82	--		1
1-Methylnaphthalene	ND	1.00	--	ND	5.82	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/13/18 17:11
Analyst: MB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1822000

Project Number: CANISTER QC BAT **Report Date:** 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/13/18 17:11
Analyst: MB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1822000
Report Date: 07/02/18

Air Canister Certification Results

Lab ID: L1822000-01
Client ID: CAN 1557 SHELF 45
Sample Location:

Date Collected: 06/12/18 16:00
Date Received: 06/13/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140

Project Name: LOCKHEED MARTIN
Project Number: 64466

Lab Number: L1823802
Report Date: 07/02/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1823802-01A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-02A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-03A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-04A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-05A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-06A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-07A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-08A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-09A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-10A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-11A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-12A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-13A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-14A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-15A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		TO15-LL(30)
L1823802-16A	Canister - 6 Liter	N/A	NA			Y	Present/Intact		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1823802
Project Number:	64466	**Report Date:**	07/02/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report

Project Name:	LOCKHEED MARTIN	**Lab Number:**	L1823802
Project Number:	64466	**Report Date:**	07/02/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 2

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

Date Rec'd in Lab: 6/22/18

ALPHA Job #: L1823802

Client Information

Client: O'BRIEN + GERE
Address: 7600 MORGAN RD
LIVERPOOL NY 13090
Phone: 315-952-6674
Fax:
Email: eric.alongi@obg.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: LOCKHEED MARTIN
Project Location: GROTON NY
Project #: 064466
Project Manager: ERIC ALONGI
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subject Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
3802-01	FR-061918-SS-J1	6/19/18	1121	1920	30.14	5.59	SV	EA	6L	1625	0014	X					
-02	FR-061918-SS-M2	6/19/18	1111	1855	29.79	5.17	SV	EA	6L	903	0951	X					
-03	FR-061918-SS-K3	6/19/18	1113	1903	29.76	7.19	SV	EA	6L	635	0048	X					
-04	FR-061918-SS-E1	6/20/18	2000	0340	29.88	5.04	SV	EA	6L	1709	0829	X					
-05	FR-061918-SS-18	6/20/18	2004	0352	27.77	7.06	SV	EA	6L	919	0437	X					
-06	FR-061918-SS-J5	6/20/18	2002	0356	29.61	6.92	SV	EA	6L	780	01056	X					
-07	FR-061918-SS-17	6/20/18	2003	0403	29.63	7.34	SV	EA	6L	2285	0340	X					

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	6/22/18 1145		6/22/18 1145
	6/22/18 1145		6/23/18 0120
	06/23/18 0550		6/22/18 0550

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

Form No: 101-02 Rev: (25-Sep-15)

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 6/22/18

ALPHA Job #: L1823802

Client Information

Client: O'BRIEN + GERE
Address: 7600 Morgan Rd
Liverpool NY 13090
Phone: 315-956-6674
Fax:
Email: eric.alonsi@obg.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: LOCKHEED MARTIN
Project Location: Geddes NY
Project #: 64166
Project Manager: ERIC ALONSI
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Solvent non-petroleum VHC's ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
-08	FR-061918-SS-08	6/19/18	1116	1916	30.6	5.99	SV	EA	6L	2275	0068	X					
-09	FR-061918-SSD-08	6/19/18	1116	1916	29.73	7.27	SV	EA	6L	2064	01060	X					
-10	FR-061918-SS-G2	6/19/18	1110	1925	29.79	15.74	SV	EA	6L	1038	0904	X					
-11	FR-061918-SS-06	6/19/18	1115	1912	29.63	8.48	SV	EA	6L	760	0201	X					
-12	FR-061918-SS-B1	6/19/18	1120	1920	29.85	6.22	SV	EA	6L	1778	0556	X					
-13	FR-061918-SS-P1	6/19/18	1119	1919	26.67	5.44	SV	EA	6L	691	0618	X					
-14	FR-061918-SS-23	6/19/18	1118	1918	29.93	6.70	SV	EA	6L	2322	0242	X					
-15	FR-061918-SS-J4	6/19/18	1123	1922	29.75	7.0	SV	EA	6L	1553	0492	X					

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	6/22/18 11:45	AAL	6/22/18 11:45
	6/23/18 11:45		6/23/18 0830
061231 0550			6/24/18 0120

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

Field Data Forms

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Christopher Finke Date/Time Prepared 9/23/15 @ 1300

Preparer's Affiliation O'Brien & Gere Phone No. 315-956-6100

Purpose of Investigation SVI Sampling

1. OCCUPANT: Owner/occupant not present

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? ____

If the property is commercial, type?

Business Type(s) Currently used as warehouse for Rescue Mission Donations

Does it include residences (i.e., multi-use)? Y / N (NA) If yes, how many? ____

Other characteristics:

Number of floors On-grade w/mezzanines Building age ~1950's

Is the building insulated? Y / N partially insulated How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Outdoor air infiltration is primarily at the NE corner where part of the building has been torn down.

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete and	stone metal frame	brick In garage
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	partially covered with tile (vinyl)	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block In garage	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: — (feet) on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Building is large - former industrial. There are several floor drains. Slab is generally competent, without cracks. ~~Garage~~ in main building & garage

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	Hot water - Boilers located in boiler room.
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
~~Electric~~	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: —

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally) (Seldom) Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Unoccupied - Storage for Rescue Mission
2nd Floor	NA
3rd Floor	
4th Floor	

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? (Y) N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) N / NA Please specify_____

d. Has the building ever had a fire? Y / N When? Unknown

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? (Y) N How frequently? - In Garage

h. Have cleaning products been used recently? Y / (N) When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? Unknown

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? (NA) Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? — There is an exhaust fan in the garage

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type? Unknown

Are there odors in the building? (Y) / N

If yes, please describe: Garage odor of motor oil and fuel from cars + lawn equipment. Main building has a strong mold/mildew odor.

Do any of the building occupants use solvents at work? (Y) N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Garage is used for automobile repair.

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) — No
Yes, use dry-cleaning infrequently (monthly or less) — (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: (NA)

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

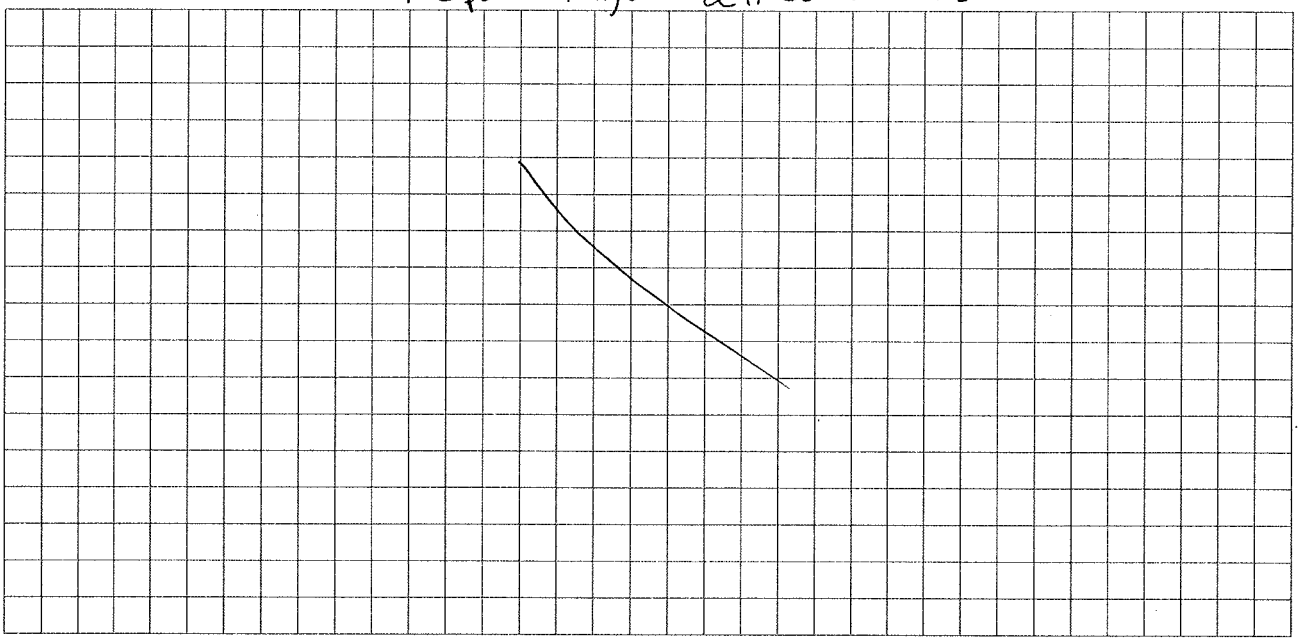
c. Responsibility for costs associated with reimbursement explained? Y / N (NA)

d. Relocation package provided and explained to residents? Y / N

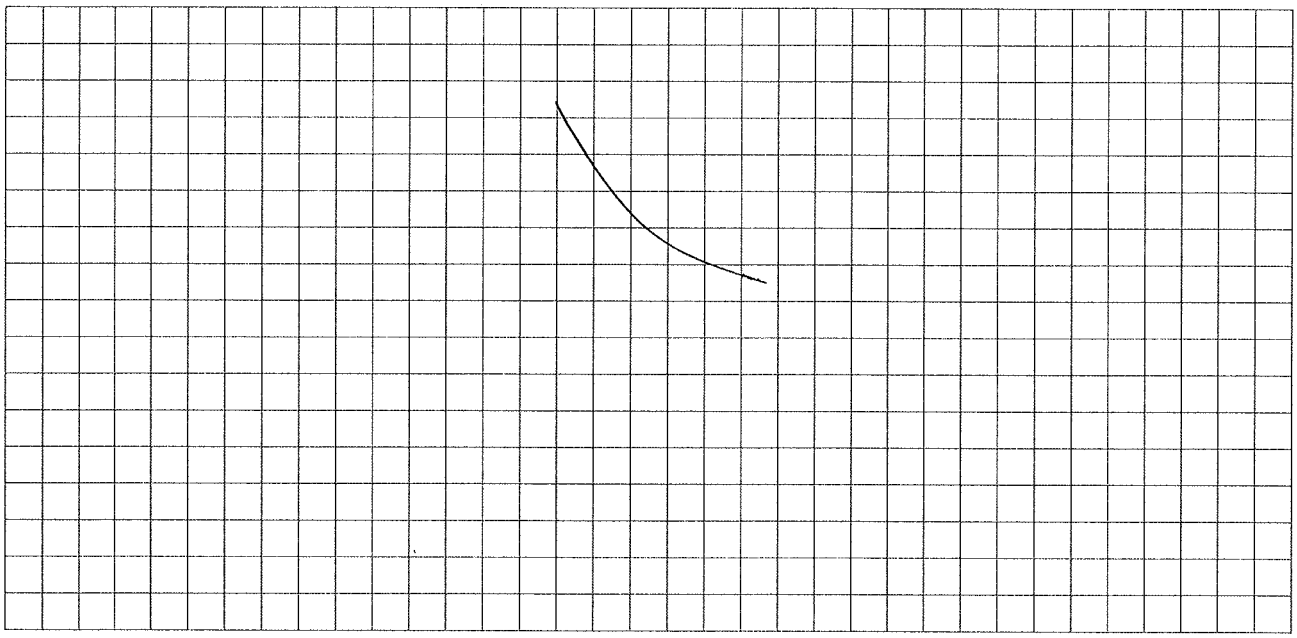
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: See Report Figure attachment.



First Floor:

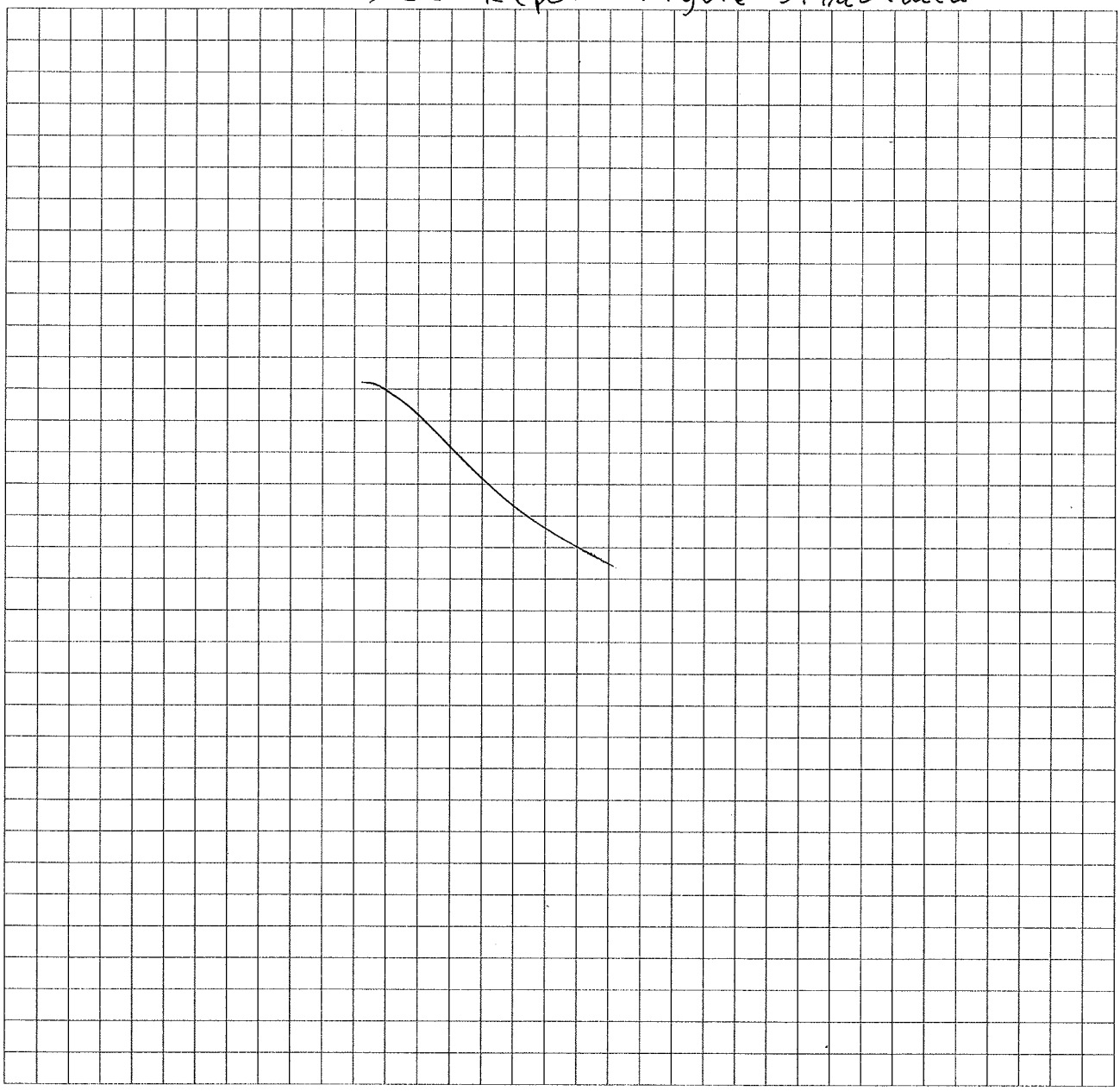


12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See Report Figure Attachment



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
North Garage Tenant	2 snowblowers, 2 chainsaws, 1 soil tiller :			petroleum distallates, gasoline		Y
	2 pump sprayers for pesticides ← assumed: Unknown					Y
South Garage Tenant :	Can Quest Brake Parts Cleaner	12 x 14oz	Used + new	NL		
	Macs Engine Cleaner	4 x 16oz	Used + new	NL		
	PB Blaster Penetrating Catalyst	11oz	Used	Aromatics, Napthalene, Petro. Distillates		
	CRC Sensor Cleaner	11 & 10 oz	Used	Hexane		
	Pyroil Starting Fluid	10 oz	Used	Heptane		
	Valvoline Throttle Body Cleaner	3 oz	Used	Acetone, xylene		
	Motor Oil	~ 10 Qts	Used + new	Petroleum distillates		
	3M Paint Defender	6 cans	Used + new	NL		
	Bars Leaks Radiator Stop Leak	10 oz	Used	NL		
	Gunk Belt Dressing	6 oz		NL		
	Several bottles of	Unknown contents - starter fluid, gasoline				
	Open drain pans of	radiator fluid and motor oil				
	Dupli color Spray paint	~3 x 11oz	Used	Acetone, propane, MEK, Butane, Toluene, Ethanol, MIK		
	Evidence of welding					
	Tires					
Main Building	Open warehouse w/ No	Inventory except Rescue Mission boxes of Contents.			of unknown	

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EA	Barometric Pressure(in Hg)	30.01	Building Survey/Chemical Inventory Form Completed?	Yes
Structure Location	Farrell Rd	Humidity(%)	52%	Photographs Taken?	Yes
Project #	50238	Sample Location(s)		Weather Conditions	Mostly Sunny	PID Meter ID	Pine 27267
Project Name	LM					Date of Calibration	2/19/16
Site Code							
Date	2/19/16						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA-01-021916	Sample ID	FR-SS-01-021916	Sample ID		Sample ID	FR-AA-01-021916
Canister ID	1895	Canister ID	1814	Canister ID		Canister ID	1052
Flow Controller ID	0792	Flow Controller ID	0679	Flow Controller ID		Flow Controller ID	0264
Date/Time start	2/19/16 0707	Date/Time start	2/19/16 0707	Date/Time start		Date/Time start	2/19/16 848
Date/Time end	2/19/16 1504 ~~0704~~	Date/Time end	2/19/16 1504 ~~0704~~	Date/Time end		Date/Time end	2/19/16 1646
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	0.00
Start Pressure	29.98	Start Pressure	29.51	Start Pressure		Start Pressure	-29.97
End Pressure	3.16	End Pressure	7.67	End Pressure		End Pressure	-7.82
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38°F	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	27°F
PID reading	280 ppb	PID reading	500 ppb	PID reading		PID reading	0ppb
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	None
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?		Tubing purged?	NA
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	None	Noticeable odor	None	Noticeable odor		Noticeable odor	None
Floor slab depth	NA	Floor slab depth	5 3/4	Floor slab depth		Distance to road (ft)	~200
Intake height above floor (in)	~40"	Intake depth below floor (in)	~14"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	~100
Room		Room		Room		Intake height above ground level (in)	~40"
Story/level	(1ST) On Grade	Story/level	Lowest - On Grade	Story/level		Wind Direction	SSE today
		SS-Moisture(Circle)	Dry Damp Saturated			Wind Speed	7-10 mph
		SS-Material(Circle)	Dirt Wood Stone Fill				
Analytical methods required	TO-15	Tracer Gas(if applicable)	Helium	Comments			
Laboratory used	ALPHA	Chamber concentration	89% / 75%				
Sample Duration (Intended)	8	Purge Concentration	0% / 0%				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	Yes
Photographs Taken?	Yes
PID Meter ID	Pine 27267
Date of Calibration	2/19/16

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA~~-01~~-02-021916	Sample ID	FR-SS-02-021916	Sample ID		Sample ID	
Canister ID	1540	Canister ID	1529	Canister ID		Canister ID	
Flow Controller ID	0577	Flow Controller ID	0029	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 0719	Date/Time start	2/19/16 0719	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1514	Date/Time end	2/19/16 1514 ~~0714~~	Date/Time end		Date/Time end	
Gauge prior to start	0.00"	Gauge prior to start	0.00"	Gauge prior to start		Gauge prior to start	
Start Pressure	29.97	Start Pressure	29.68	Start Pressure		Start Pressure	
End Pressure	6.95	End Pressure	6.02	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	30°	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	517 ppb	PID reading	1500 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Yes, motor oil	Noticeable odor	NA	Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth	5 3/4"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~42"	Intake depth below floor (in)	~1/4"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	Lowest	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO15	Tracer Gas(if applicable)	Helium	Comments			
Laboratory used	ALPHA	Chamber concentration	56% / 75%				
Sample Duration (Intended)	8	Purge Concentration	0% / 0%				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Cloudy 40s SUNNY
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	YES		
Photographs Taken?	YES		
PID Meter ID	RAE 3227267		
Date of Calibration	2/14/16		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-IA-03-021916	Sample ID	FR-SS-03-021916	Sample ID		Sample ID	
Canister ID	1940	Canister ID	1841	Canister ID		Canister ID	
Flow Controller ID	0224	Flow Controller ID	0133	Flow Controller ID		Flow Controller ID	
Date/Time start	2/14/16 0536	Date/Time start	2/19/16 0836	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1630	Date/Time end	2/19/16 1630	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	~~30.12~~ 0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	30.11	Start Pressure	30.13	Start Pressure		Start Pressure	
End Pressure	4.95	End Pressure	10.82	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	270 ppb	PID reading	100 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth	~4 3/4"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~38"	Intake depth below floor (in)	~1/4	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	Lowest	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry / Damp / Saturated				Wind Speed	
		SS-Material(Circle) Dirt / Wood / Stone / Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA-PERMANENT POINT	Comments			
Laboratory used	ALPHA	Chamber concentration	NA				
Sample Duration (Intended)	8	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	Yes	
Photographs Taken?	Yes	
PID Meter ID	Pine 27267	
Date of Calibration	2/19/16	

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	~~FR-IA-01-021916~~ FR-IA-04-021916	Sample ID	FR-SS-04-021916	Sample ID	FR-DUP-021916	Sample ID	
Canister ID	1777	Canister ID	953	Canister ID	2097	Canister ID	
Flow Controller ID	0413	Flow Controller ID	0555	Flow Controller ID	0733	Flow Controller ID	
Date/Time start	2/19/16 0543	Date/Time start	2/19/16 0543	Date/Time start	2/19/16 0543	Date/Time start	
Date/Time end	2/19/16 ~~1641~~	Date/Time end	2/19/16 1641	Date/Time end	2/19/16 1641	Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start	
Start Pressure	30.02	Start Pressure	30.12	Start Pressure	30.12	Start Pressure	
End Pressure	15.59	End Pressure	7.65	End Pressure	~~7.40~~	End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)	~~38~~ NA	Air temperature (°F)	
PID reading	0 ppb	PID reading	0 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used	~36"	in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?	Yes	Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor	No	Noticeable odor	
Floor slab depth	NA	Floor slab depth	6½"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~40"	Intake depth below floor (in)	~¼"	Intake depth below/above floor (in)	~1"	Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type	Concrete	Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	slab on grade (1st)	Story/level	Lowest	Story/level	1st - Slab on Grade	Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA-Ammonia Point	Comments			
Laboratory used	ALPHA	Chamber concentration	NA				
Sample Duration (Intended)	8	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA/CF	Barometric Pressure(in Hg)	30.01
Project Name	Lmco	Structure Location	Farm II Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	Yes
Photographs Taken?	Yes
PID Meter ID	Mine 27267
Date of Calibration	2/19/16

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA-05-021916	Sample ID	FR-SS-05-021916	Sample ID		Sample ID	
Canister ID	964	Canister ID	972	Canister ID		Canister ID	
Flow Controller ID	0429	Flow Controller ID	0907	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 0814	Date/Time start	2/19/16 0814	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1618	Date/Time end	2/16/16 1618	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	29.37	Start Pressure	30.12	Start Pressure		Start Pressure	
End Pressure	12.64	End Pressure	6.33	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	0 ppb	PID reading	120 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
		Noticeable odor	No			Noticeable odor	
Noticeable odor	No	Floor slab depth	-5½"	Noticeable odor		Distance to road (ft)	
Floor slab depth	NA	Intake depth below floor (in)	-1¼"	Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	39"	Floor surface type	Concrete	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	Concrete	Room	Boiler	Floor surface type		Intake height above ground level (in)	
Room		Story/level	Lowest	Room		Wind Direction	
Story/level	(1ST) Slab on Grade	SS-Moisture(Circle) Dry Damp Saturated		Story/level		Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO 15	Tracer Gas(if applicable)	NA-Permanent Point	Comments			
Laboratory used	Alpha	Chamber concentration	NA				
Sample Duration (Intended)	8	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	Yes
Photographs Taken?	Yes
PID Meter ID	Pine 27267
Date of Calibration	2/19/16

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID: FR-IA-06-021916	Sample ID: FR-SS-06-021916	Sample ID:	Sample ID:
Canister ID: 1979	Canister ID: ~~624~~ 624	Canister ID:	Canister ID:
Flow Controller ID: 0249	Flow Controller ID: 0772	Flow Controller ID:	Flow Controller ID:
Date/Time start: 2/19/16 0824	Date/Time start: 2/19/16 0824	Date/Time start:	Date/Time start:
Date/Time end: 2/19/16 1621 ~~0824~~	Date/Time end: 2/19/16 1621 ~~0824~~	Date/Time end:	Date/Time end:
Gauge prior to start: 0.00	Gauge prior to start: 0.00	Gauge prior to start:	Gauge prior to start:
Start Pressure: 29.34	Start Pressure: 29.54	Start Pressure:	Start Pressure:
End Pressure: 7.95	End Pressure: 7.47	End Pressure:	End Pressure:
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F): 38	Air temperature (°F): NA	Air temperature (°F):	Air temperature (°F):
PID reading: 550 ppb	PID reading: ~~550~~ 900 ppb	PID reading:	PID reading:
in. tubing used: NA	in. tubing used: ~36"	in. tubing used:	in. tubing used:
Tubing purged? NA	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor: No	Noticeable odor: NO	Noticeable odor:	Noticeable odor:
Floor slab depth: ~~0~~ NA	Floor slab depth: ~5 3/4"	Floor slab depth:	Distance to road (ft):
Intake height above floor (in): 36"	Intake depth below floor (in): ~1/4	Intake depth below/above floor (in):	Direction to site building (°):
Floor surface type: concrete	Floor surface type: Concrete	Floor surface type:	Distance to site building (ft):
Room:	Room:	Room:	Intake height above ground level (in):
Story/level: (1st) slab on Grade	Story/level: Lowest	Story/level:	Wind Direction:
	SS-Moisture(Circle) Dry / Damp / Saturated		Wind Speed:
	SS-Material(Circle) Dirt / Wood / Stone / Fill		
Analytical methods required: TO-15	Tracer Gas(if applicable): NA - Permanent Point	Comments:	
Laboratory used: Alpha	Chamber concentration: NA		
Sample Duration (Intended): 8	Purge Concentration: NA		

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Multiple Vapor Intrusion Sampling Form

Project #	50235	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Cloudy Sunny
Date	2/19/16			Building Survey/Chemical Inventory Form Completed?	Yes
				Photographs Taken?	Yes
				PID Meter ID	PINE 27267
				Date of Calibration	2/19/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA-07-021916	Sample ID	FR-SS-07-021916	Sample ID		Sample ID	
Canister ID	961	Canister ID	965	Canister ID		Canister ID	
Flow Controller ID	0806	Flow Controller ID	0925	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 0831 ~~8300~~	Date/Time start	2/19/16 0831	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1626 ~~0820~~	Date/Time end	2/19/16 @1626	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	30.02	Start Pressure	30.14	Start Pressure		Start Pressure	
End Pressure	5.76	End Pressure	7.55	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	510 ppb	PID reading	145 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		In. tubing used	
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	NO	Noticeable odor	NO	Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth	~5 3/4"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	36"	Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	1st - Slab on Grade	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA - Permanent Point	Comments			
Laboratory used	Alpha	Chamber concentration	NA				
Sample Duration (Intended)	8	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	FARRELL RD	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	YES
Photographs Taken?	YES
PID Meter ID	Pine 27267
Date of Calibration	2/19/16

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA-08-021916	Sample ID	FR-SS-08-021916	Sample ID		Sample ID	
Canister ID	1633	Canister ID	1583	Canister ID		Canister ID	
Flow Controller ID	0064	Flow Controller ID	0531	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 806	Date/Time start	2/19/16 806	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1604	Date/Time end	2/19/16 1604	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	30.13	Start Pressure	30.07	Start Pressure		Start Pressure	
End Pressure	7.32	End Pressure	7.57	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	550 ppb	PID reading	7000 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~3ft	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	NO	Noticeable odor	NO	Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth	~6 1/2"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	53"	Intake depth below floor (in)	~1'4	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	CONCRETE	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	(1ST) Slab on grade	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA - Permanent Point	Comments			
Laboratory used	ALPHA	Chamber concentration	NA				
Sample Duration (Intended)	8	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50235	Collector(s)	EA	Barometric Pressure(in Hg)	30.01
Project Name	LM	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	YES
Photographs Taken?	YES
PID Meter ID	Pine 27267
Date of Calibration	2/19/16

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-IA-09-021916	Sample ID	FR-SS-09-021916	Sample ID		Sample ID	
Canister ID	02639	Canister ID	2127	Canister ID		Canister ID	
Flow Controller ID	0121	Flow Controller ID	0432	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 802	Date/Time start	2/19/16 802	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1600	Date/Time end	2/19/16 1600	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	30.01	Start Pressure	30.15	Start Pressure		Start Pressure	
End Pressure	5.42	End Pressure	5.97	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	380 ppb	PID reading	(500) ~~380~~ ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth	5"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	55"	Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	(1ST) Slab on Grade	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA-Permanent Point	Comments			
Laboratory used	ALPHA	Chamber concentration	NA				
Sample Duration (Intended)	8	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CE	Barometric Pressure(in Hg)	30.01	Building Survey/Chemical Inventory Form Completed?	Yes
Structure Location	Farrell Rd	Humidity(%)	52%	Photographs Taken?	YES
Project #	50238	Sample Location(s)		Weather Conditions	Mostly Sunny	PID Meter ID	Pine 27267
Project Name	Lmco					Date of Calibration	2/19/16
Site Code							
Date	2/19/16						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA-10-021916 ~~022416~~	Sample ID	FR-SS-10-021916	Sample ID		Sample ID	
Canister ID	1615	Canister ID	2002	Canister ID		Canister ID	
Flow Controller ID	0236 ~~0755~~	Flow Controller ID	0088	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 0753	Date/Time start	2/19/16 0753	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1541	Date/Time end	2/19/16 1541	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	29.97	Start Pressure	30.15	Start Pressure		Start Pressure	
End Pressure	7.63	End Pressure	11.49	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	38	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	390 ppb	PID reading	0 ppb	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	Yes	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor	No	Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth	~6"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	55"	Intake depth below floor (in)	~V4	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	concrete	Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	1st slab on grade	Story/level	Lowest	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO15	Tracer Gas(if applicable)	NA/Permanent Point	Comments			
Laboratory used	Alpha	Chamber concentration	NA				
Sample Duration (Intended)	8hr	Purge Concentration	NA				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	50238	Collector(s)	EA/EF	Barometric Pressure(in Hg)	30.01
Project Name	Lmco	Structure Location	Farrell Rd	Humidity(%)	52%
Site Code		Sample Location(s)		Weather Conditions	Mostly Sunny
Date	2/19/16				

Building Survey/Chemical Inventory Form Completed?	YES	
Photographs Taken?	YES	
PID Meter ID	Pine	27267
Date of Calibration	2/19/16	

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-IA-11-021916	Sample ID	FR-SS-11-021916	Sample ID		Sample ID	
Canister ID	1863	Canister ID	583	Canister ID		Canister ID	
Flow Controller ID	0910	Flow Controller ID	0430	Flow Controller ID		Flow Controller ID	
Date/Time start	2/19/16 0730	Date/Time start	2/19/16 0730	Date/Time start		Date/Time start	
Date/Time end	2/19/16 1525	Date/Time end	2/19/16 1525	Date/Time end		Date/Time end	
Gauge prior to start	0.00	Gauge prior to start	0.00	Gauge prior to start		Gauge prior to start	
Start Pressure	~~0.00~~ 29.49	Start Pressure	30.05	Start Pressure		Start Pressure	
End Pressure	3.54	End Pressure	~~7.67~~ 11.52	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	37°F	Air temperature (°F)	NA	Air temperature (°F)		Air temperature (°F)	
PID reading	297 ppb	PID reading	0	PID reading		PID reading	
in. tubing used	NA	in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	~~Yes moderate~~ None	Noticeable odor	None	Noticeable odor		Noticeable odor	
Floor slab depth	7"	Floor slab depth	7"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	54"	Intake depth below floor (in)	~1/4"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type	concrete	Floor surface type		Distance to site building (ft)	
Room	North-most bay	Room	North-most bay	Room		Intake height above ground level (in)	
Story/level	(1st) On grade	Story/level	(1st) On Grade	Story/level		Wind Direction	
		SS-Moisture(Circle)	Dry Damp Saturated			Wind Speed	
		SS-Material(Circle)	Dirt Wood Stone Fill				
Analytical methods required	TO15	Tracer Gas(if applicable)	~~88%~~ / Helium	Comments			
Laboratory used	Alpha	Chamber concentration	~~0%~~ / 85%/83%				
Sample Duration (Intended)	8Hr	Purge Concentration	0% / 0%				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	6446	Collector(s)	EA	Barometric Pressure(in Hg)	29.73" Hg
Project Name	FARRELL RD	Structure Location	241 FARRELL RD	Humidity(%)	77%
Site Code		Sample Location(s)		Weather Conditions	1.4" Rain
Date	1/17/17				

Building Survey/Chemical Inventory Form Completed? YES
Photographs Taken?
PID Meter ID SN 907799
Date of Calibration 1/17/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-011717-IA-03	Sample ID		Sample ID		Sample ID	FR-011717-AA
Canister ID	1661	Canister ID		Canister ID		Canister ID	1869
Flow Controller ID	0727	Flow Controller ID		Flow Controller ID		Flow Controller ID	0927
Date/Time start	1/17/17 0752	Date/Time start		Date/Time start		Date/Time start	1/17/17 0804
Date/Time end	1/17/17 1537	Date/Time end		Date/Time end		Date/Time end	1/17/17 1606
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	0
Start Pressure	-29.80" Hg	Start Pressure		Start Pressure		Start Pressure	-28.38
End Pressure	-7.29" Hg	End Pressure		End Pressure		End Pressure	-5.25
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	41°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	@ 30°F
PID reading	0.0ppm	PID reading		PID reading		PID reading	0.0
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	0"
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	NA
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	No
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	60"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	CONCRETE	Floor surface type		Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	70"
Story/level	FIRST	Story/level		Story/level		Wind Direction	East
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	0-3 mph
Analytical methods required	TO-15	SS-Material(Circle) Dirt Wood Stone Fill		Comments			
Laboratory used	ALPHA	Tracer Gas(if applicable)					
Sample Duration (Intended)	8-HOUR	Chamber concentration					
		Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA	Barometric Pressure(in Hg)	29.73 "Hg	Building Survey/Chemical Inventory Form Completed?	YES
Structure Location	341 FARRELL RD	Humidity(%)	77%	Photographs Taken?	
Project #	6446	Sample Location(s)		Weather Conditions	Light Rain	PID Meter ID	SN 907799
Project Name	FARRELL RD					Date of Calibration	1/17/17
Site Code							
Date	1/17/17						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-011717-IA-04	Sample ID		Sample ID	FR-011717-IAD	Sample ID	
Canister ID	593	Canister ID		Canister ID	696	Canister ID	
Flow Controller ID	0722	Flow Controller ID		Flow Controller ID	0792	Flow Controller ID	
Date/Time start	1/17/17 0750	Date/Time start		Date/Time start	1/17/17 0750	Date/Time start	
Date/Time end	1/17/17 ~~07~~ 1530	Date/Time end		Date/Time end	1/17/17 1530	Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start	0	Gauge prior to start	
Start Pressure	-29.53	Start Pressure		Start Pressure	-29.88	Start Pressure	
End Pressure	-4.61	End Pressure		End Pressure	-6.20	End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	41°F	Air temperature (°F)		Air temperature (°F)	41°F	Air temperature (°F)	
PID reading	0.0 ppm	PID reading		PID reading	0.0	PID reading	
in. tubing used	0	in. tubing used		in. tubing used	0	in. tubing used	
Tubing purged?	N/A	Tubing purged?		Tubing purged?	N/A	Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	47"	Intake depth below floor (in)		Intake depth below/above floor (in)	47"	Direction to site building (°)	
Floor surface type	CONCRETE	Floor surface type		Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	FIRST	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-HOUR	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Project #	6446	Collector(s)	EA	Barometric Pressure(in Hg)	29.73 "Hg
Project Name	FARRELL RD	Structure Location	341 FARRELL RD	Humidity(%)	77%
Site Code		Sample Location(s)		Weather Conditions	Light Rain
Date	1/17/17				

Building Survey/Chemical Inventory Form Completed? YES
Photographs Taken?
PID Meter ID SN 907799
Date of Calibration 1/17/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-011717-IA-05	Sample ID		Sample ID		Sample ID	
Canister ID	1569	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0965	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	1/17/17 0756	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	1/17/17 1548	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.70 "Hg	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-6.57 "Hg	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	45°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0.0 ppm	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Slight Damp Odor	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	48"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	CONCRETE	Floor surface type		Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	FIRST	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry / Damp / Saturated				Wind Speed	
		SS-Material(Circle) Dirt / Wood / Stone / Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-Hour	Purge Concentration					

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EA	Barometric Pressure(in Hg)	29.73"	Building Survey/Chemical Inventory Form Completed?	YES
Structure Location	341 FARRELL RD	Humidity(%)	77%	Photographs Taken?	
Project #	64466	Sample Location(s)		Weather Conditions	Light Rain	PID Meter ID	SN 90 2789
Project Name	FARRELL RD				Date of Calibration	1/17/17
Site Code					
Date	1/17/17				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-011717-IA-06	Sample ID		Sample ID		Sample ID	
Canister ID	1633	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0961	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	1/17/17 0754	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	1/17/17 @1541	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-30.08 "Hg	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-7.30	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)					
Air temperature (°F)	42°	PID reading		Air temperature (°F)		Air temperature (°F)	
PID reading	0.0 ppm	in. tubing used		PID reading		PID reading	
in. tubing used	0	Tubing purged?		in. tubing used		in. tubing used	
Tubing purged?	NA	For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor					
For indoor location:		Floor slab depth		For indoor location:		For outdoor location:	
		Intake depth below floor (in)				Noticeable odor	
Noticeable odor	No	Floor surface type		Noticeable odor		Distance to road (ft)	
Floor slab depth	NA	Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	70"	Story/level		Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	CONCRETE	SS-Moisture(Circle) Dry Damp Saturated		Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level	FIRST	SS-Material(Circle) Dirt Wood Stone Fill		Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-HOUR	Purge Concentration					

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Project #	64466	Collector(s)	EA	Barometric Pressure(in Hg)	29.73 "Hg
Project Name	FARRELL RD	Structure Location	341 FARRELL RD	Humidity(%)	77%
Site Code		Sample Location(s)		Weather Conditions	Light Rain
Date	1/17/17				

Building Survey/Chemical Inventory Form Completed?	YES		
Photographs Taken?			
PID Meter ID	SN 907799		
Date of Calibration	1/17/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-011717-IA-07	Sample ID		Sample ID		Sample ID	
Canister ID	1976	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0810	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	1/17/17 0753	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	1/17/17 1540	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-30.61	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-6.80	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	42	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0.0	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	36"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	CONCRETE	Floor surface type		Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	FIRST	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-HOUR	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Project #	6446	Collector(s)	EA	Barometric Pressure(in Hg)	29.73 "Hg
Project Name	FARRELL RD	Structure Location	341 FARRELL RD	Humidity(%)	77%
Site Code		Sample Location(s)		Weather Conditions	Light Rain
Date	1/17/17				

Building Survey/Chemical Inventory Form Completed? YES
Photographs Taken?
PID Meter ID
Date of Calibration

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	ER-011717-IA-08	Sample ID		Sample ID		Sample ID	
Canister ID	2124	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0729	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	1/17/17 0755	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	1/17/17 1556	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-30.32	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-9.40	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)					
Air temperature (°F)	45°	PID reading		Air temperature (°F)		Air temperature (°F)	
PID reading	0.0 ppm	in. tubing used		PID reading		PID reading	
in. tubing used	0	Tubing purged?		in. tubing used		in. tubing used	
Tubing purged?	NA	For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor		For indoor location:		For outdoor location:	
		Floor slab depth				Noticeable odor	
Noticeable odor	No	Intake depth below floor (in)		Noticeable odor		Distance to road (ft)	
Floor slab depth	NA	Floor surface type		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	59"	Room		Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	CONCRETE	Story/level		Floor surface type		Intake height above ground level (in)	
Room		SS-Moisture(Circle) Dry Damp Saturated		Room		Wind Direction	
Story/level	FIRST	SS-Material(Circle) Dirt Wood Stone Fill		Story/level		Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-HOURS	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Project #	6446	Collector(s)	EA	Barometric Pressure(in Hg)	29.73 %
Project Name	FARRELL RD	Structure Location	341 FARRELL Rd	Humidity(%)	77%
Site Code		Sample Location(s)		Weather Conditions	Light Rain
Date	1/17/17				

Building Survey/Chemical Inventory Form Completed?	YES		
Photographs Taken?			
PID Meter ID	SN 902799		
Date of Calibration	1/17/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-01717-IA-09	Sample ID		Sample ID		Sample ID	
Canister ID	1996	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0010	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	1/17/17 0757	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	1/18/17 1525	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.95	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-3.47	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	45°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0.0	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	NO	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	48"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	CONCRETE	Floor surface type		Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level	FIRST	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-HOUR	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Project #	64466	Collector(s)	EA	Barometric Pressure(in Hg)	29.73 "Hg
Project Name	FARRELL RD	Structure Location	341 FARRELL RD	Humidity(%)	77%
Site Code		Sample Location(s)		Weather Conditions	Light Rain
Date	1/17/17				

Building Survey/Chemical Inventory Form Completed?	YES
Photographs Taken?	
PID Meter ID	SN 907799
Date of Calibration	1/17/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-01717-IA-10	Sample ID		Sample ID		Sample ID	
Canister ID	1542	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0964	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	1/17/17 0758	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	1/17/17 1552	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	C	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.90	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-6.82	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)					
Air temperature (°F)	45°	PID reading		Air temperature (°F)		Air temperature (°F)	
PID reading	0.0	In. tubing used		PID reading		PID reading	
in. tubing used	0	Tubing purged?		in. tubing used		in. tubing used	
Tubing purged?	NA	For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor		For indoor location:		For outdoor location:	
		Floor slab depth				Noticeable odor	
Noticeable odor	No	Intake depth below floor (in)		Noticeable odor		Distance to road (ft)	
Floor slab depth	NA	Floor surface type		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)	70"	Room		Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type	CONCRETE	Story/level		Floor surface type		Intake height above ground level (in)	
Room		SS-Moisture(Circle) Dry Damp Saturated		Room		Wind Direction	
Story/level	FIRST	SS-Material(Circle) Dirt Wood Stone Fill		Story/level		Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-HOUR	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s) E. Alongi	**Barometric Pressure(in Hg)** 29.95	**Building Survey/Chemical Inventory Form Completed** Yes	
		Structure Location 241 Farrell Road	**Humidity(%)** 93%	**Photographs Taken?**	
Project #	64466	**Sample Location(s)**	**Weather Conditions** Overcast, Rain	**PID Meter ID**	PINE 4149
Project Name	LM - Farrell Road			**Date of Calibration**	7/27/17
Site Code	7-34-055				
Date	7/27/2017				

Indoor Air Sample		**Sub-structure Sample**		*Circle Sample Type:* **SS-DUP** **IA-DUP** **Indoor Air**		**Ambient**	
Sample ID	FR-072717-IA-03	Sample ID		Sample ID		Sample ID	See IA-09 FF
Canister ID	942	Canister ID		Canister ID		Canister ID	
Flow Controller ID	FC0733	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0747	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 ~~0910~~	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0" 1517	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.25	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-6.35	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	71	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0.005	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Musty/Damp	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	40"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	High Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	29.95
		Structure Location	241 Farrell Road	Humidity(%)	93%
Project #	64466	Sample Location(s)		Weather Conditions	Overcast Rain
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/27/2017				

Building Survey/Chemical Inventory Form Completed	Yes
Photographs Taken?	
PID Meter ID	PINE 4149
Date of Calibration	7/27/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient 09	
Sample ID	FR-072717-IA-04	Sample ID		Sample ID		Sample ID	See IA-08 FF
Canister ID	1672	Canister ID		Canister ID		Canister ID	
Flow Controller ID	FC0258	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0751	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 1521	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	~~29.0~~ "	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	29.91 "	Start Pressure		Start Pressure		Start Pressure	
End Pressure	7.16 "	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	71°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	1 ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp / musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	39 "	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	High Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry / Damp / Saturated				Wind Speed	
		SS-Material(Circle) Dirt / Wood / Stone / Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	**Barometric Pressure(in Hg)**	29.95
		Structure Location	241 Farrell Road	**Humidity(%)**	93%
Project #	64466	**Sample Location(s)**		**Weather Conditions**	Overcast, Rain
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/27/2017				

Building Survey/Chemical Inventory Form Completed	Yes
Photographs Taken?	
PID Meter ID	PINE 4149
Date of Calibration	07/27/17

Indoor Air Sample		**Sub-structure Sample**		*Circle Sample Type:* **SS-DUP** **IA-DUP** **Indoor Air**		**Ambient**	
Sample ID	FR-072717-IA-05	Sample ID		Sample ID		Sample ID	See IA-09 & FF
Canister ID	1522	Canister ID		Canister ID		Canister ID	
Flow Controller ID	FC0804	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0754	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 1531	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.34"	Start Pressure		Start Pressure		Start Pressure	
End Pressure	5.47	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	~~32~~ 70°F	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	~~12 ppb~~ 0 ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp / musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	42"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Boiler Room	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s) E. Alongi	Barometric Pressure(in Hg) 29.95	Building Survey/Chemical Inventory Form Completed Yes	
		Structure Location 241 Farrell Road	Humidity(%) 93%	Photographs Taken?	
Project #	64466	Sample Location(s)	Weather Conditions OVERCAST, RAIN	PID Meter ID	PINE 4149
Project Name	LM - Farrell Road			Date of Calibration	7/27/17
Site Code	7-34-055				
Date	7/27/2017				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-072717-IA-06	Sample ID		Sample ID		Sample ID	~~FR 0727~~ See IA-09 FF 09
Canister ID	1611	Canister ID		Canister ID		Canister ID	
Flow Controller ID	FC0950	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0750	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 1438	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	29.56	Start Pressure		Start Pressure		Start Pressure	
End Pressure	4.53	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	14ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp / musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	38"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low BAY	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	29.95
		Structure Location	241 Farrell Road	Humidity(%)	93%
Project #	64466	Sample Location(s)		Weather Conditions	Overcast, Rain
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/27/2017				

Building Survey/Chemical Inventory Form Completed	Yes		
Photographs Taken?			
PID Meter ID	PINE 4149		
Date of Calibration	7/27/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-072717-IA-07	Sample ID		Sample ID		Sample ID	FR-072717-AA
Canister ID	981	Canister ID		Canister ID		Canister ID	See IA-09 FF
Flow Controller ID	FC0907	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0752	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 1525	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	29.47	Start Pressure		Start Pressure		Start Pressure	
End Pressure	7.88	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	12 ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp/musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	40"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	29.95
		Structure Location	241 Farrell Road	Humidity(%)	93%
Project #	64466	Sample Location(s)		Weather Conditions	Overcast ; Rain
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/27/2017				

Building Survey/Chemical Inventory Form Completed	Yes
Photographs Taken?	
PID Meter ID	PINE 4149
Date of Calibration	7/27/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-072717-IA-08	Sample ID		Sample ID		Sample ID	See IA-09 FF
Canister ID	1600	Canister ID		Canister ID		Canister ID	
Flow Controller ID	FC0091	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0756	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 1535	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	29.37	Start Pressure		Start Pressure		Start Pressure	
End Pressure	7.80	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	71°F	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	28 ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp / musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	41"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low BM	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments	Trailer to the east of IA-08 ~ 100 ft. contains cleaning products, lawnmower, etc... observed 3 ppm from trailer vents. Jay Room locked - measured 50 ppb from door crack.		
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	29.95
		Structure Location	241 Farrell Road	Humidity(%)	93%
Project #	64466	Sample Location(s)		Weather Conditions	Overcast Rain
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/27/2017				

Building Survey/Chemical Inventory Form Completed	Yes
Photographs Taken?	
PID Meter ID	Pine 4N9
Date of Calibration	7/27/17

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-072717-IA-09	Sample ID		Sample ID		Sample ID	FR-072717-AA
Canister ID	2105	Canister ID		Canister ID		Canister ID	1713
Flow Controller ID	FC 0785	Flow Controller ID		Flow Controller ID		Flow Controller ID	FC0724
Date/Time start	7/27/17 0758	Date/Time start		Date/Time start		Date/Time start	7/27/17 804
Date/Time end	7/27/17 1538	Date/Time end		Date/Time end		Date/Time end	7/27/17 1554
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	0
Start Pressure	30.23	Start Pressure		Start Pressure		Start Pressure	-29.30
End Pressure	8.37	End Pressure		End Pressure		End Pressure	-5.85
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	71°F	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	42 ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp / musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	40"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	**Barometric Pressure(in Hg)**	29.95
		Structure Location	241 Farrell Road	**Humidity(%)**	93%
Project #	64466	**Sample Location(s)**		**Weather Conditions**	Overcast Rain
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/27/2017				

Building Survey/Chemical Inventory Form Completed	Yes
Photographs Taken?	
PID Meter ID	PINE MN9
Date of Calibration	7/27/17

Indoor Air Sample		**Sub-structure Sample**		*Circle Sample Type:* **SS-DUP** **IA-DUP** **Indoor Air**		**Ambient**	
Sample ID	FR-072717-IA-10	Sample ID		Sample ID		Sample ID	
Canister ID	2282	Canister ID		Canister ID		Canister ID	
Flow Controller ID	FC0718	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	7/27/17 0800	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	7/27/17 1407	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0"	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	29.52"	Start Pressure		Start Pressure		Start Pressure	
End Pressure	3.03"	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	17 ppb	PID reading		PID reading		PID reading	
in. tubing used	0	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	Damp / musty	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	39"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	**Barometric Pressure(in Hg)** 30.05	**Building Survey/Chemical Inventory Form Completed** Yes
	Structure Location 241 Farrell Road	**Humidity(%)** 74 %	**Photographs Taken?**
Project # 64466	**Sample Location(s)**	**Weather Conditions** Overcast	**PID Meter ID** Pine 4149
Project Name LM - Farrell Road			**Date of Calibration** 7/31/17
Site Code 7-34-055			
Date 7/31/17			

Indoor Air Sample	**Sub-structure Sample**	*Circle Sample Type:* **SS-DUP** **IA-DUP** **Indoor Air**	**Ambient**
Sample ID	Sample ID FR-073117-SS-04	Sample ID	Sample ID
Canister ID	Canister ID 2271	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 01638	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 7/31/17 1633	Date/Time start	Date/Time start
Date/Time end	Date/Time end 7/31/17 1436	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.98	Start Pressure	Start Pressure
End Pressure	End Pressure -6.99	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 72°	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~36	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? Yes	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor Musty	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~6"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) ~1"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room Higgie Bay	Room	Intake height above ground level (in)
Story/level	Story/level First	Story/level	Wind Direction
	SS-Moisture(Circle) (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle) (Dirt) Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used Alpha Analytical	Chamber concentration 9190/ 5570		
Sample Duration (Intended) 8-hr	Purge Concentration 0/ 0		

Multiple Vapor Intrusion Sampling Form

	Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.03	Building Survey/Chemical Inventory Form Completed	Yes
	Structure Location	241 Farrell Road	Humidity(%)	76 76	Photographs Taken?	
Project #	64466	Sample Location(s)	Weather Conditions	Overcast	PID Meter ID	Rae 4419
Project Name	LM - Farrell Road				Date of Calibration	8/1/17
Site Code	7-34-055					
Date	8/1/17					

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR-080117-SS-05	Sample ID	Sample ID
Canister ID	Canister ID 2121	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0138	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 8/1/17 702	Date/Time start	Date/Time start
Date/Time end	Date/Time end 8/1/17 1316	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.38	Start Pressure	Start Pressure
End Pressure	End Pressure -4.19	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 73°	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~36"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
	Noticeable odor MUSTY		
	Floor slab depth ~6"		
	Intake depth below floor (in) ~1"		
Noticeable odor	Floor surface type Concrete	Noticeable odor	Noticeable odor
Floor slab depth	Room Bsmt	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Story/level First	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	SS-Moisture(Circle) (Dry) Damp Saturated	Floor surface type	Distance to site building (ft)
Room		Room	Intake height above ground level (in)
Story/level	SS-Material(Circle) (Dirt) Wood Stone Fill	Story/level	Wind Direction
			Wind Speed
Analytical methods required TO-15	Tracer Gas(if applicable) NA	Comments	
Laboratory used Alpha Analytical	Chamber concentration NA		
Sample Duration (Intended) 8-hr	Purge Concentration NA		

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	Barometric Pressure(in Hg) 30.03		Building Survey/Chemical Inventory Form Completed	Yes
	Structure Location 241 Farrell Road	Humidity(%) 76%		Photographs Taken?	
Project # 64466	Sample Location(s)	Weather Conditions OVERCAST		PID Meter ID	PID 4149
Project Name LM - Farrell Road				Date of Calibration	8/1/17
Site Code 7-34-055					
Date 8/1/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-080117-SS-06	Sample ID		Sample ID	
Canister ID		Canister ID	1673	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0543	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	8/1/17 654	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	8/1/17 1416	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-28.24	Start Pressure		Start Pressure	
End Pressure		End Pressure	-5.84	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	73	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		In. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	MUSTY	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	~6"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room	Low BAY	Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
Analytical methods required TO-15		Tracer Gas(if applicable)	He	Comments			
Laboratory used Alpha Analytical		Chamber concentration	69% / 65%				
Sample Duration (Intended) 8-hr		Purge Concentration	0 / 1400 ppm				

Multiple Vapor Intrusion Sampling Form

	Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.03	Building Survey/Chemical Inventory Form Completed	Yes
	Structure Location	241 Farrell Road	Humidity(%)	76 %	Photographs Taken?	
Project #	64466	Sample Location(s)	Weather Conditions	OVERCAST	PID Meter ID	Rae 4449
Project Name	LM - Farrell Road				Date of Calibration	8/1/17
Site Code	7-34-055					
Date	8/1/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-080117-SS-08	Sample ID	FR-080117-SS-DUP	Sample ID	
Canister ID		Canister ID	1709	Canister ID	2320	Canister ID	
Flow Controller ID		Flow Controller ID	0949	Flow Controller ID	0235	Flow Controller ID	
Date/Time start		Date/Time start	8/1/17 711	Date/Time start	8/1/17 711	Date/Time start	
Date/Time end		Date/Time end	8/1/17 1425	Date/Time end	8/1/17 1425	Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start	0	Gauge prior to start	
Start Pressure		Start Pressure	-29.82	Start Pressure	-29.95	Start Pressure	
End Pressure		End Pressure	-5.90	End Pressure	-7.36	End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	73°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		in. tubing used	~40"	in. tubing used	~40'	in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?	YES	Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	MUSTY	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	~6"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1'	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room	LOW BAY	Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA	Comments			
Laboratory used	Alpha Analytical	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	Barometric Pressure(in Hg) 30.03		Building Survey/Chemical Inventory Form Completed Yes	
	Structure Location 241 Farrell Road	Humidity(%) 76%		Photographs Taken?	
Project # 64466	Sample Location(s)	Weather Conditions Overcast		PID Meter ID PINE 4N9	
Project Name LM - Farrell Road				Date of Calibration 8/1/17	
Site Code 7-34-055					
Date 8/1/17					

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP IA-DUP Indoor Air	Ambient
Sample ID	Sample ID FR-080117-SS-12	Sample ID	Sample ID
Canister ID	Canister ID 1693	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0109	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 8/1/17 1628	Date/Time start	Date/Time start
Date/Time end	Date/Time end 8/1/17 1358	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -30.03	Start Pressure	Start Pressure
End Pressure	End Pressure -6.87	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 73°	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~3"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor MUSTY	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) ~1"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room Low BAY	Room	Intake height above ground level (in)
Story/level	Story/level First	Story/level	Wind Direction
	SS-Moisture(Circle) (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle) (Dirt) Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used Alpha Analytical	Chamber concentration 67%/ 67%		
Sample Duration (Intended) 8-hr	Purge Concentration 0/ 975ppm		

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	Barometric Pressure(in Hg) 30.03	Building Survey/Chemical Inventory Form Completed? Yes
	Structure Location 241 Farrell Road	Humidity(%) 76%	Photographs Taken?
Project # 64466	Sample Location(s)	Weather Conditions OVERCAST	PID Meter ID PINE 4149
Project Name LM - Farrell Road			Date of Calibration 8/1/17
Site Code 7-34-055			
Date 8/1/17			

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP IA-DUP Indoor Air	Ambient
Sample ID	Sample ID FR-080117-SS-13	Sample ID	Sample ID
Canister ID	Canister ID 1594	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0764	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 8/1/17 612	Date/Time start	Date/Time start
Date/Time end	Date/Time end 8/1/17 1405	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -30.32	Start Pressure	Start Pressure
End Pressure	End Pressure 7.57	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 73°	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~36"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor MUSTY	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~6"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) ~1"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room LOW BAY	Room	Intake height above ground level (in)
Story/level	Story/level First	Story/level	Wind Direction
	SS-Moisture(Circle) Dry Damp Saturated		Wind Speed
	SS-Material(Circle) Dirt Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used Alpha Analytical	Chamber concentration 70%/ 61%		
Sample Duration (Intended) 8-hr	Purge Concentration 0/ 0%		

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.03
		Structure Location	241 Farrell Road	Humidity(%)	76%
Project #	64466	Sample Location(s)		Weather Conditions	OVERCAST
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	8/1/17				

Building Survey/Chemical Inventory Form Completed	Yes		
Photographs Taken?			
PID Meter ID	PID 4149		
Date of Calibration	8/1/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-080117-SS-14	Sample ID		Sample ID	
Canister ID		Canister ID	1549	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0799	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	8/1/17 623	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	8/1/17 1434	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.86	Start Pressure		Start Pressure	
End Pressure		End Pressure	-15.80	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	73°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		in. tubing used	~36	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	MUSTY	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	LOW BAY	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~11	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	Dirt Wood Stone Fill				
Analytical methods required	TO-15	Tracer Gas(if applicable)	1,1	Comments			
Laboratory used	Alpha Analytical	Chamber concentration	80% / 618				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 500 ppm				

Multiple Vapor Intrusion Sampling Form

	Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.03	Building Survey/Chemical Inventory Form Completed	Yes
	Structure Location	241 Farrell Road	Humidity(%)	76%	Photographs Taken?	
Project #	64466	Sample Location(s)	Weather Conditions	OVERCAST	PID Meter ID	PINE 4149
Project Name	LM - Farrell Road				Date of Calibration	8/1/17
Site Code	7-34-055					
Date	8/1/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-080117-SS-15	Sample ID		Sample ID	
Canister ID		Canister ID	2003	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0624	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	8/1/17 605	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	8/1/17 1337	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.20	Start Pressure		Start Pressure	
End Pressure		End Pressure	-7.48	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	73°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
		Noticeable odor	MUSTY			Noticeable odor	
		Floor slab depth	~6"			Distance to road (ft)	
		Intake depth below floor (in)	~1			Direction to site building (°)	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to site building (ft)	
Floor slab depth		Room	LOW BAY	Floor slab depth			
Intake height above floor (in)		Story/level	First	Intake depth below/above floor (in)			
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room				Room			
Story/level		SS-Material(Circle)	(Dirt) Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha Analytical	Chamber concentration	76% / 60%				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 0				

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	Barometric Pressure(in Hg) 30.03	Building Survey/Chemical Inventory Form Completed Yes		
	Structure Location 241 Farrell Road	Humidity(%) 76%	Photographs Taken?		
Project # 64466	Sample Location(s)	Weather Conditions OVERCAST	PID Meter ID PID 4149		
Project Name LM - Farrell Road			Date of Calibration 8/1/17		
Site Code 7-34-055					
Date 8/1/17					

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP IA-DUP Indoor Air	Ambient
Sample ID	Sample ID FR-080117-SS-16	Sample ID	Sample ID
Canister ID	Canister ID 1864	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0913	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 8/1/17 1045	Date/Time start	Date/Time start
Date/Time end	Date/Time end 8/1/17 1345	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.61	Start Pressure	Start Pressure
End Pressure	End Pressure 6.54	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 73°	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~36"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor MUSTY	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~6"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) ~1"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room	Room	Intake height above ground level (in)
Story/level	Story/level First	Story/level	Wind Direction
	SS-Moisture(Circle) (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle) (Dirt) Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) HC	Comments	
Laboratory used Alpha Analytical	Chamber concentration 81% / 60%		
Sample Duration (Intended) 8-hr	Purge Concentration 0 2600 ppm		

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.05
		Structure Location	241 Farrell Road	Humidity(%)	74%
Project #	64466	Sample Location(s)		Weather Conditions	OVERCAST
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/31/17				

Building Survey/Chemical Inventory Form Completed	Yes		
Photographs Taken?			
PID Meter ID	PINE 4/49		
Date of Calibration	7/31/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-073117-SS-17	Sample ID		Sample ID	
Canister ID		Canister ID	2293	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0794	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	7/31/17 620	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	7/31/17 1513	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.09	Start Pressure		Start Pressure	
End Pressure		End Pressure	-10.13	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	MUSTY	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	~6"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room	Low BAY	Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle) Dry / Damp / Saturated				Wind Speed	
		SS-Material(Circle) Dirt / Wood / Stone / Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	Hc	Comments			
Laboratory used	Alpha Analytical	Chamber concentration	87 % / 100%				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 2 ppm				

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	Barometric Pressure(in Hg) 30.05	Building Survey/Chemical Inventory Form Completed Yes		
	Structure Location 241 Farrell Road	Humidity(%) 74%	Photographs Taken?		
Project # 64466	Sample Location(s)	Weather Conditions Overcast	PID Meter ID	PINE 4149	
Project Name LM - Farrell Road			Date of Calibration	7/31/17	
Site Code 7-34-055					
Date 7/31/17					

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR-073117-SS-18	Sample ID	Sample ID
Canister ID	Canister ID 1850	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0973	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 7/31/17 629	Date/Time start	Date/Time start
Date/Time end	Date/Time end 7/31/17 1411	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.99	Start Pressure	Start Pressure
End Pressure	End Pressure -6.77	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 72	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~36	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? yes	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor Musty	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~6"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) 21"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room Low Bay	Room	Intake height above ground level (in)
Story/level	Story/level First	Story/level	Wind Direction
	SS-Moisture(Circle) (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle) (Dirt) Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used Alpha Analytical	Chamber concentration 74% / 55		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 0		

Multiple Vapor Intrusion Sampling Form

	Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.05	Building Survey/Chemical Inventory Form Completed	Yes
	Structure Location	241 Farrell Road	Humidity(%)	74%	Photographs Taken?	
Project #	64466	Sample Location(s)		Weather Conditions	Overcast	PID Meter ID	PINE 4149
Project Name	LM - Farrell Road				Date of Calibration	7/31/17
Site Code	7-34-055					
Date	7/31/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-073117-SS-19	Sample ID		Sample ID	
Canister ID		Canister ID	897	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0936	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	7/31/17 1645	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	7/31/17 1252	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.64	Start Pressure		Start Pressure	
End Pressure		End Pressure	-2.76	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	NO	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	~6"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room	Low Bay	Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha Analytical	Chamber concentration	89% / 61%				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 0				

Multiple Vapor Intrusion Sampling Form

	Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.05	Building Survey/Chemical Inventory Form Completed	Yes
	Structure Location	241 Farrell Road	Humidity(%)	74%	Photographs Taken?	
Project #	64466	Sample Location(s)	Weather Conditions	OVERCAST	PID Meter ID	PINE, 4149
Project Name	LM - Farrell Road				Date of Calibration	7/31/17
Site Code	7-34-055					
Date	7/31/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-073117-SS-20	Sample ID		Sample ID	
Canister ID		Canister ID	1831	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0925	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	7/31/17 1411	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	~~1437~~ 1455	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.86	Start Pressure		Start Pressure	
End Pressure		End Pressure	-9.81	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	—	PID reading		PID reading	
in. tubing used		in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	NO	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	~10"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room	Low Bay	Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha Analytical	Chamber concentration	96% / 101%				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 0				

Multiple Vapor Intrusion Sampling Form

		Collector(s)	E. Alongi	Barometric Pressure(in Hg)	30.05
		Structure Location	241 Farrell Road	Humidity(%)	74%
Project #	64466	Sample Location(s)		Weather Conditions	overcast
Project Name	LM - Farrell Road				
Site Code	7-34-055				
Date	7/31/17				

Building Survey/Chemical Inventory Form Completed	Yes		
Photographs Taken?			
PID Meter ID	PINE 4149		
Date of Calibration	7/31/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-073117-SS-21	Sample ID		Sample ID	
Canister ID		Canister ID	1572	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0697	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	7/31/17 1637	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	7/31/17 1418	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.23	Start Pressure		Start Pressure	
End Pressure		End Pressure	-7.42	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	72°	Air temperature (°F)		Air temperature (°F)	
PID reading		PID reading	-	PID reading		PID reading	
in. tubing used		in. tubing used	~36"	in. tubing used		in. tubing used	
Tubing purged?		Tubing purged?	Yes	Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	No	Noticeable odor		Noticeable odor	
Floor slab depth		Floor slab depth	~6"	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1"	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type		Distance to site building (ft)	
Room		Room	Low Bay	Room		Intake height above ground level (in)	
Story/level		Story/level	First	Story/level		Wind Direction	
		SS-Moisture(Circle)	(Dry) Damp Saturated			Wind Speed	
		SS-Material(Circle)	(Dirt) Wood Stone Fill				
Analytical methods required	TO-15	Tracer Gas(if applicable)	ifc	Comments			
Laboratory used	Alpha Analytical	Chamber concentration	84% / 58				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 0				

Multiple Vapor Intrusion Sampling Form

	Collector(s) E. Alongi	Barometric Pressure(in Hg) 30.05	Building Survey/Chemical Inventory Form Completed Yes		
	Structure Location 241 Farrell Road	Humidity(%) 74%	Photographs Taken?		
Project # 64466	Sample Location(s)	Weather Conditions Overcast	PID Meter ID PINE 4149		
Project Name LM - Farrell Road			Date of Calibration 7/31/17		
Site Code 7-34-055					
Date 7/31/17					

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR-073117-SS-22	Sample ID	Sample ID
Canister ID	Canister ID 2129	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0422	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 7/31/17 1634	Date/Time start	Date/Time start
Date/Time end	Date/Time end 7/31/17 1402	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.67	Start Pressure	Start Pressure
End Pressure	End Pressure 6.6	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) 72°	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading —	PID reading	PID reading
in. tubing used	in. tubing used ~32"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor No	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~6"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) ~1"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room High Bay	Room	Intake height above ground level (in)
Story/level	Story/level First	Story/level	Wind Direction
	SS-Moisture(Circle) Dry / Damp / Saturated		Wind Speed
	SS-Material(Circle) Dirt / Wood / Stone / Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) HC	Comments	
Laboratory used Alpha Analytical	Chamber concentration 967.1 / 58%		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 0		

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	**Barometric Pressure(in Hg)**	30.18	**Building Survey/Chemical Inventory Form Completed?**	N
Structure Location	241 Farrell Road	**Humidity(%)**	90	**Photographs Taken?**	N
Project #	64466	**Sample Location(s)**		**Weather Conditions**	P. Cloudy	**PID Meter ID**	336 141
Project Name	Lockheed Martin - Farrell Road					**Date of Calibration**	10/10/17
Site Code					
Date	10/10/17				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-101017-IA-03	Sample ID		Sample ID		Sample ID	
Canister ID	2269	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0212	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 907	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1652	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.16	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-5.54	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~4ft	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	High Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry / Damp / Saturated				Wind Speed	
		SS-Material(Circle) Dirt / Wood / Stone / Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.18	Building Survey/Chemical Inventory Form Completed?	~
	Structure Location	241 Farrell Road	Humidity(%)	90	Photographs Taken?	~
Project #	64466	Sample Location(s)		Weather Conditions	1 Cloudy	PID Meter ID	OBG 14
Project Name	Lockheed Martin - Farrell Road					Date of Calibration	10/10/17
Site Code							
Date	10/10/17						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR- 101017-IA-04	Sample ID		Sample ID		Sample ID	
Canister ID	951	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0498	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 908	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1656	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.67	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-6.43	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~36'	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	High Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	**Barometric Pressure(in Hg)**	30.18	**Building Survey/Chemical Inventory Form Completed?**	~
Structure Location	241 Farrell Road	**Humidity(%)**	90	**Photographs Taken?**	~
Project #	64466	**Sample Location(s)**		**Weather Conditions**	P. Cloudy	**PID Meter ID**	oBG 14
Project Name	Lockheed Martin - Farrell Road					**Date of Calibration**	10/16/17
Site Code					
Date	10/10/17				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR- 101017 - IA05	Sample ID		Sample ID		Sample ID	
Canister ID	950	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0594	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 922	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1713	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.91	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-7.44	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~40	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Boiler Room	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry / Damp / Saturated				Wind Speed	
		SS-Material(Circle) Dirt / Wood / Stone / Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.18	Building Survey/Chemical Inventory Form Completed?	~
	Structure Location	241 Farrell Road	Humidity(%)	90	Photographs Taken?	~
Project #	64466	Sample Location(s)		Weather Conditions	P. Cloudy	PID Meter ID	0661 14
Project Name	Lockheed Martin - Farrell Road					Date of Calibration	10/10/17
Site Code							
Date	10/10/17						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-101017-IA-06	Sample ID		Sample ID		Sample ID	FR-101017-AA
Canister ID	1535	Canister ID		Canister ID		Canister ID	2108
Flow Controller ID	0379	Flow Controller ID		Flow Controller ID		Flow Controller ID	0237
Date/Time start	10/10/17 911	Date/Time start		Date/Time start		Date/Time start	10/10/17 927
Date/Time end	10/10/17 1701	Date/Time end		Date/Time end		Date/Time end	10/10/17 1729
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	0
Start Pressure	-29.85	Start Pressure		Start Pressure		Start Pressure	-29.43
End Pressure	-9.77	End Pressure		End Pressure		End Pressure	-5.55
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	~52
PID reading	0	PID reading		PID reading		PID reading	0
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	—
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	—
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	No
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	~700'
Intake height above floor (in)	~36'	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	~25'
Room	Low Bay	Room		Room		Intake height above ground level (in)	~60"
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	5-10
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.18	Building Survey/Chemical Inventory Form Completed?	~
	Structure Location	241 Farrell Road	Humidity(%)	70	Photographs Taken?	~
Project #	64466	Sample Location(s)		Weather Conditions	P. Cloudy	PID Meter ID	OGG 14
Project Name	Lockheed Martin - Farrell Road				Date of Calibration	10/10/17
Site Code						
Date	10/10/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR-10017-IA-07	Sample ID		Sample ID		Sample ID	
Canister ID	1796	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0475	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 913	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1703	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-28.42	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-7.83	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~41"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	**Barometric Pressure(in Hg)**	30.18	**Building Survey/Chemical Inventory Form Completed?**	N
Structure Location	241 Farrell Road	**Humidity(%)**	~90	**Photographs Taken?**	N
Project #	64466	**Sample Location(s)**		**Weather Conditions**	P. Cloudy	**PID Meter ID**	OBG 12
Project Name	Lockheed Martin - Farrell Road					**Date of Calibration**	10/10/17
Site Code					
Date	10/10/17				

Indoor Air Sample		Sub-structure Sample		*Circle Sample Type:* SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID	FR- 101017-IA-05	Sample ID		Sample ID		Sample ID	
Canister ID	2266	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0400	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 915	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1716	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.50	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-13.52	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~38"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low B4	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	**Barometric Pressure(in Hg)**	30.12	**Building Survey/Chemical Inventory Form Completed?**	✓
	Structure Location	241 Farrell Road	**Humidity(%)**	~90	**Photographs Taken?**	✓
Project #	64466	**Sample Location(s)**		**Weather Conditions**	P Cloudy	**PID Meter ID**	OBG 11
Project Name	Lockheed Martin - Farrell Road				**Date of Calibration**	10/10/17
Site Code					
Date	10/10/17				

Indoor Air Sample		**Sub-structure Sample**		*Circle Sample Type:* **SS-DUP** **IA-DUP** **Indoor Air**		**Ambient**	
Sample ID	FR-101017-IA-09	Sample ID		Sample ID		Sample ID	
Canister ID	2046	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0550	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 917	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1707	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.56	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-6.70	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	No	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~36	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	**Barometric Pressure(in Hg)**	30.18	**Building Survey/Chemical Inventory Form Completed?** ~
	Structure Location	241 Farrell Road	**Humidity(%)**	~90	**Photographs Taken?** ~
Project #	64466	**Sample Location(s)**	**Weather Conditions**	P. Cloudy	**PID Meter ID**	086 14
Project Name	Lockheed Martin - Farrell Road				**Date of Calibration**	10/10/17
Site Code						
Date	10/10/17					

Indoor Air Sample		**Sub-structure Sample**		*Circle Sample Type:* **SS-DUP** **IA-DUP** **Indoor Air**		**Ambient**	
Sample ID	FR- 101017-IA-10	Sample ID		Sample ID		Sample ID	
Canister ID	2261	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0087	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 920	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1711	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-29.88	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-7.32	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	0	PID reading		PID reading		PID reading	
in. tubing used	—	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	—	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	NO	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	N/A	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~36	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Low Bay	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

		Collector(s)	EMA	Barometric Pressure(in Hg)	30.18
		Structure Location	241 Farrell Road	Humidity(%)	50
Project #	64466	Sample Location(s)		Weather Conditions	P. Cloudy
Project Name	Lockheed Martin - Farrell Road				
Site Code					
Date					

Building Survey/Chemical Inventory Form Completed?	N		
Photographs Taken?	Y		
PID Meter ID	OBG 14		
Date of Calibration	10/10/17		

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	FR-101017-IA-JY	Sample ID		Sample ID		Sample ID	
Canister ID	1982	Canister ID		Canister ID		Canister ID	
Flow Controller ID	0843	Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start	10/10/17 1245	Date/Time start		Date/Time start		Date/Time start	
Date/Time end	10/10/17 1716	Date/Time end		Date/Time end		Date/Time end	
Gauge prior to start	0	Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure	-27.81	Start Pressure		Start Pressure		Start Pressure	
End Pressure	-10.29	End Pressure		End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)	57	Air temperature (°F)		Air temperature (°F)		Air temperature (°F)	
PID reading	—	PID reading		PID reading		PID reading	
in. tubing used	~40	in. tubing used		in. tubing used		in. tubing used	
Tubing purged?	NA	Tubing purged?		Tubing purged?		Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor	YES	Noticeable odor		Noticeable odor		Noticeable odor	
Floor slab depth	NA	Floor slab depth		Floor slab depth		Distance to road (ft)	
Intake height above floor (in)	~2"	Intake depth below floor (in)		Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type	Concrete	Floor surface type		Floor surface type		Distance to site building (ft)	
Room	Joy Carpet Room	Room		Room		Intake height above ground level (in)	
Story/level	First	Story/level		Story/level		Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	ALPHA	Chamber concentration					
Sample Duration (Intended)	8-hr	Purge Concentration					

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	N
	Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	N
Project #	64466	Sample Location(s)	Weather Conditions	Overcast	PID Meter ID	OBG 14
Project Name	Lockheed Martin - Farrell Road				Date of Calibration	10/13/17
Site Code						
Date	10/13/17					

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP IA-DUP Indoor Air	Ambient
Sample ID	Sample ID FR-101317-SS-23	Sample ID	Sample ID
Canister ID	Canister ID 2261	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0422	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 10/13/17 0709	Date/Time start	Date/Time start
Date/Time end	Date/Time end 10/13/17 1439	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -30.01	Start Pressure	Start Pressure
End Pressure	End Pressure -7.41	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) ~58	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading 700 ppb	PID reading	PID reading
in. tubing used	in. tubing used ~36"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
	Noticeable odor No		
	Floor slab depth ~7"		
	Intake depth below floor (in) ~14		
Noticeable odor	Floor surface type Concrete	Noticeable odor	Noticeable odor
Floor slab depth	Room Low High Bay	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Story/level Lowest	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	SS-Moisture(Circle) (Dry) Damp Saturated	Floor surface type	Distance to site building (ft)
Room		Room	Intake height above ground level (in)
Story/level	SS-Material(Circle) (Dirt) Wood Stone Fill	Story/level	Wind Direction
			Wind Speed
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used ALPHA	Chamber concentration 65 / 68		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 0		

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	N
	Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	OVERCAST	PID Meter ID	OOG 14
Project Name	Lockheed Martin - Farrell Road					Date of Calibration	10/13/17
Site Code							
Date	10/13/17						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR- 101317-SS-24	Sample ID		Sample ID	
Canister ID		Canister ID	2287	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0949	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	10/13/17 714	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	10/13/17 1433	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-30.33	Start Pressure		Start Pressure	
End Pressure		End Pressure	-6.23	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	58				
Air temperature (°F)		PID reading	2200 ppb	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	Yes	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	No				
For indoor location:		Floor slab depth	~7"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1'				
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Noticeable odor	
Floor slab depth		Room	Low Bay	Floor slab depth		Distance to road (ft)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Direction to site building (°)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Distance to site building (ft)	
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	(Dirt) Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	ALPHA	Chamber concentration	70 / 67				
Sample Duration (Intended)	8-hr	Purge Concentration	0 / 0				

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	~
Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	~
Project #	64466	Sample Location(s)		Weather Conditions	OVERCAST	PID Meter ID	OVM 14
Project Name	Lockheed Martin - Farrell Road				Date of Calibration	10/13/17
Site Code					
Date	10/13/17				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR- 101317-SS-25	Sample ID	Sample ID
Canister ID	Canister ID 2275	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0433	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 10/13/17 720	Date/Time start	Date/Time start
Date/Time end	Date/Time end 10/13/17 1453	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -30.39	Start Pressure	Start Pressure
End Pressure	End Pressure -7.49	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
	Air temperature (°F) ~58		
Air temperature (°F)	PID reading 700 ppb	Air temperature (°F)	Air temperature (°F)
PID reading	in. tubing used ~36"	PID reading	PID reading
in. tubing used	Tubing purged? YES	in. tubing used	in. tubing used
Tubing purged?	For indoor location:	Tubing purged?	Tubing purged?
	Noticeable odor NO		
For indoor location:	Floor slab depth ~7"	For indoor location:	For outdoor location:
	Intake depth below floor (in) ~1"		Noticeable odor
Noticeable odor	Floor surface type Concrete	Noticeable odor	Distance to road (ft)
Floor slab depth	Room LOW BAY	Floor slab depth	Direction to site building (°)
Intake height above floor (in)	Story/level Lowest	Intake depth below/above floor (in)	Distance to site building (ft)
Floor surface type	SS-Moisture(Circle) (Dry) Damp Saturated	Floor surface type	Intake height above ground level (in)
Room		Room	
Story/level	SS-Material(Circle) (Dirt) Wood Stone Fill	Story/level	Wind Direction
			Wind Speed
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used ALPHA	Chamber concentration 71 / 62		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 0		

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	N
Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	OVERCAST	PID Meter ID	OVM 14
Project Name	Lockheed Martin - Farrell Road					Date of Calibration	10/13/17
Site Code							
Date	10/13/17						

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR-101317-SS-216	Sample ID	Sample ID
Canister ID	Canister ID 980	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0624	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 10/13/17 725	Date/Time start	Date/Time start
Date/Time end	Date/Time end 10/13/17 1442	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.21	Start Pressure	Start Pressure
End Pressure	End Pressure -5.71	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) ~58	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading 600 ppb	PID reading	PID reading
in. tubing used	in. tubing used ~36'	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
	Noticeable odor NO		
	Floor slab depth ~7"		
	Intake depth below floor (in) ~1"		
Noticeable odor	Floor surface type Concrete	Noticeable odor	Noticeable odor
Floor slab depth	Room LOW BAY	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Story/level Lowest	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	SS-Moisture(Circle) (Dry) Damp Saturated	Floor surface type	Distance to site building (ft)
Room		Room	Intake height above ground level (in)
Story/level	SS-Material(Circle) (Dirt) Wood Stone Fill	Story/level	Wind Direction
			Wind Speed
Analytical methods required TO-15	Tracer Gas(if applicable) 1,1 DFA	Comments	
Laboratory used ALPHA	Chamber concentration 73 / 70		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 200 ppm		

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	**Barometric Pressure(in Hg)**	30.3	**Building Survey/Chemical Inventory Form Completed?**	N
Structure Location	241 Farrell Road	**Humidity(%)**	77	**Photographs Taken?**	N
Project #	64466	**Sample Location(s)**		**Weather Conditions**	Overcast	**PID Meter ID**	QAG 14
Project Name	Lockheed Martin - Farrell Road					**Date of Calibration**	10/13/17
Site Code					
Date	10/13/17				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR-101317-SS-27	Sample ID FR-101317-IA-SS-DUP	Sample ID
Canister ID	Canister ID 1703	Canister ID 1999	Canister ID
Flow Controller ID	Flow Controller ID 0048	Flow Controller ID 0138	Flow Controller ID
Date/Time start	Date/Time start 10/13/17 730	Date/Time start 10/13/17 730	Date/Time start
Date/Time end	Date/Time end 10/13/17 1944	Date/Time end 10/13/17 1444	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start 0	Gauge prior to start
Start Pressure	Start Pressure -30.07	Start Pressure -28.33	Start Pressure
End Pressure	End Pressure -10.00	End Pressure -6.29	End Pressure
Complete all that apply:	**Complete all that apply:**	**Complete all that apply:**	**Complete all that apply:**
Air temperature (°F)	Air temperature (°F) ~58	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading 1 PPM	PID reading	PID reading
in. tubing used	in. tubing used ~36"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? Y	Tubing purged?	Tubing purged?
For indoor location:	**For indoor location:**	**For indoor location:**	**For outdoor location:**
Noticeable odor	Noticeable odor No	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~7"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) 21"	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room Low Bay	Room	Intake height above ground level (in)
Story/level	Story/level Lowest	Story/level	Wind Direction
	SS-Moisture(Circle) (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle) (Dirt) Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) Hc	Comments	
Laboratory used ALPHA	Chamber concentration 73 / 67		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 0		

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	N
	Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	N
Project #	64466	Sample Location(s)	Weather Conditions	Overcast	PID Meter ID	006,14
Project Name	Lockheed Martin - Farrell Road				Date of Calibration	10/13/17
Site Code						
Date	10/13/17					

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-101317-SS-28	Sample ID		Sample ID	
Canister ID		Canister ID	1663	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0242	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	10/13/17 700	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	10/13/17 1411	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-28.11	Start Pressure		Start Pressure	
End Pressure		End Pressure	-5.39	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~58				
Air temperature (°F)		PID reading	600 ppb	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36'	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	No				
For indoor location:		Floor slab depth	~7"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room	High Bay	Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room				Room		Wind Direction	
Story/level		SS-Material(Circle)	(Dirt) Wood Stone Fill	Story/level		Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	HC	Comments			
Laboratory used	ALPHA	Chamber concentration	75/~~80~~ 70				
Sample Duration (Intended)	8-hr	Purge Concentration	0/0 0				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	N
Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	OVERCAST	PID Meter ID	OPG 14
Project Name	Lockheed Martin - Farrell Road				Date of Calibration	10/13/17
Site Code					
Date	10/13/17				

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP / IA-DUP / Indoor Air	Ambient
Sample ID	Sample ID FR-10137-SS29	Sample ID	Sample ID
Canister ID	Canister ID 1583	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0772	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 10/13/17 640	Date/Time start	Date/Time start
Date/Time end	Date/Time end 10/13/17 1421	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -28.54	Start Pressure	Start Pressure
End Pressure	End Pressure -4.20	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) ~58	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading 1300 ppb	PID reading	PID reading
in. tubing used	in. tubing used ~36'	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? Yes	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor No	Noticeable odor	Noticeable odor
Floor slab depth	Floor slab depth ~7"	Floor slab depth	Distance to road (ft)
Intake height above floor (in)	Intake depth below floor (in) ~1'	Intake depth below/above floor (in)	Direction to site building (°)
Floor surface type	Floor surface type Concrete	Floor surface type	Distance to site building (ft)
Room	Room HIGH BAY	Room	Intake height above ground level (in)
Story/level	Story/level Lowest	Story/level	Wind Direction
	SS-Moisture(Circle) (Dry) Damp Saturated		Wind Speed
	SS-Material(Circle) (Dirt) Wood Stone Fill		
Analytical methods required TO-15	Tracer Gas(if applicable) 70 / 68	Comments	
Laboratory used ALPHA	Chamber concentration 0 / 0		
Sample Duration (Intended) 8-hr	Purge Concentration		

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EMA	Barometric Pressure(in Hg)	30.3	Building Survey/Chemical Inventory Form Completed?	✓
	Structure Location	241 Farrell Road	Humidity(%)	77	Photographs Taken?	✓
Project #	64466	Sample Location(s)		Weather Conditions	Overcast	PID Meter ID	OBG 14
Project Name	Lockheed Martin - Farrell Road					Date of Calibration	10/13/17
Site Code							
Date	10/13/17						

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: SS-DUP IA-DUP Indoor Air	Ambient
Sample ID	Sample ID FR- 101317-SS-30	Sample ID	Sample ID
Canister ID	Canister ID 1612	Canister ID	Canister ID
Flow Controller ID	Flow Controller ID 0403	Flow Controller ID	Flow Controller ID
Date/Time start	Date/Time start 10/13/17 647	Date/Time start	Date/Time start
Date/Time end	Date/Time end 10/13/17 1426 ~~1625~~	Date/Time end	Date/Time end
Gauge prior to start	Gauge prior to start 0	Gauge prior to start	Gauge prior to start
Start Pressure	Start Pressure -29.97	Start Pressure	Start Pressure
End Pressure	End Pressure -6.22	End Pressure	End Pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F) ~58	Air temperature (°F)	Air temperature (°F)
PID reading	PID reading 500 ppb	PID reading	PID reading
in. tubing used	in. tubing used ~36"	in. tubing used	in. tubing used
Tubing purged?	Tubing purged? YES	Tubing purged?	Tubing purged?
For indoor location:	For indoor location:	For indoor location:	For outdoor location:
	Noticeable odor No		
	Floor slab depth ~7"		
	Intake depth below floor (in) ~1"		Noticeable odor
Noticeable odor	Floor surface type Concrete	Noticeable odor	Distance to road (ft)
Floor slab depth	Room High Bay	Floor slab depth	Direction to site building (°)
Intake height above floor (in)	Story/level Lowest	Intake depth below/above floor (in)	Distance to site building (ft)
Floor surface type	SS-Moisture(Circle) (Dry) Damp Saturated	Floor surface type	Intake height above ground level (in)
Room		Room	Wind Direction
Story/level	SS-Material(Circle) (Dirt) Wood Stone Fill	Story/level	Wind Speed
Analytical methods required TO-15	Tracer Gas(if applicable) He	Comments	
Laboratory used ALPHA	Chamber concentration 75 / 68		
Sample Duration (Intended) 8-hr	Purge Concentration 0 / 0		

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Multiple Vapor Intrusion Sampling Form

	Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
	Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055						
Date	6/19/18						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-06	Sample ID		Sample ID	
Canister ID		Canister ID	7600	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0201	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1115	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1912	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.63	Start Pressure		Start Pressure	
End Pressure		End Pressure	-8.48	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	480ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	NO				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle) Dry Damp Saturated		Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle) Dirt Wood Stone Fill		Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA	Comments	IA Background ~420 ppb -		
Laboratory used	Alpha	Chamber concentration					
Sample Duration (Intended)	8hr	Purge Concentration					

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055						
Date	6/19/18						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-08	Sample ID	FR-061918-SS-08	Sample ID	
Canister ID		Canister ID	2275	Canister ID	2064	Canister ID	
Flow Controller ID		Flow Controller ID	0868	Flow Controller ID	01060	Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1116	Date/Time start	6/19/18 1116	Date/Time start	
Date/Time end		Date/Time end	6/19/18 1916	Date/Time end	6/19/18 1916	Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start	0	Gauge prior to start	
Start Pressure		Start Pressure	-30.6	Start Pressure	-29.73	Start Pressure	
End Pressure		End Pressure	-5.99	End Pressure	-7.27	End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F)		Air temperature (°F)	~75	Air temperature (°F)	~75	Air temperature (°F)	
PID reading		PID reading	470 ppb / 0.0 (11.7)	PID reading	470 ppb / 0.0 (11.7)	PID reading	
in. tubing used		in. tubing used	~36"	in. tubing used	~36"	in. tubing used	
Tubing purged?		Tubing purged?	YES	Tubing purged?	YES	Tubing purged?	
For indoor location:		For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor		Noticeable odor	NO	Noticeable odor	NO	Noticeable odor	
Floor slab depth		Floor slab depth	~6"	Floor slab depth	~6"	Distance to road (ft)	
Intake height above floor (in)		Intake depth below floor (in)	~1"	Intake depth below/above floor (in)	~1"	Direction to site building (°)	
Floor surface type		Floor surface type	Concrete	Floor surface type	Concrete	Distance to site building (ft)	
Room		Room		Room		Intake height above ground level (in)	
Story/level		Story/level	Lowest	Story/level	Lowest	Wind Direction	
		SS-Moisture(Circle) Dry Damp Saturated				Wind Speed	
		SS-Material(Circle) Dirt Wood Stone Fill					
Analytical methods required	TO-15	Tracer Gas(if applicable)	NA	Comments	IA Background - 420 ppb		
Laboratory used	Alpha	Chamber concentration					
Sample Duration (Intended)	8hr	Purge Concentration					

O'BRIEN & GERE

Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-17	Sample ID		Sample ID	
Canister ID		Canister ID	2285	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0340	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 2003	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/20/18 403	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.63	Start Pressure		Start Pressure	
End Pressure		End Pressure	-7.34	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	900 ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	NO				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	71% / 62%				
Sample Duration (Intended)	8hr	Purge Concentration	6650 ppm / 300 ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N/A
Structure Location		Humidity(%)	51%	Photographs Taken?	N.
Project #	64466	Sample Location(s)		Weather Conditions	SUNNY	PID Meter ID	~~10.6~~ / 11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-18	Sample ID		Sample ID	
Canister ID		Canister ID	9F 0437	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID		Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 2004	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/20/18 352	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start		Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-27.77	Start Pressure		Start Pressure	
End Pressure		End Pressure	-7.06	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	950 ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor	NO	For indoor location:		For outdoor location:	
		Floor slab depth	~6"				
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	Dry / Damp / Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt / Wood / Stone / Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	75% / 54%	Comments			
Laboratory used	Alpha	Chamber concentration	300 / 300 ppm				
Sample Duration (Intended)	8hr	Purge Concentration					

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	~
Structure Location		Humidity(%)	51%	Photographs Taken?	~
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-23	Sample ID		Sample ID	
Canister ID		Canister ID	2322	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0242	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1118	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1918	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.93	Start Pressure		Start Pressure	
End Pressure		End Pressure	-6.70	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	1700 ppb / 0.0	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor	No	For indoor location:		For outdoor location:	
		Floor slab depth	~6"				
		Intake depth below floor (in)	-1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	HE	Comments			
Laboratory used	Alpha	Chamber concentration	64% / ~~700~~ 72%				
Sample Duration (Intended)	8hr	Purge Concentration	700ppm / 500ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-060918-SS-B1	Sample ID		Sample ID	
Canister ID		Canister ID	1778	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0556	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1120	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1920	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.85	Start Pressure		Start Pressure	
End Pressure		End Pressure	-6.22	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	700ppm / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	NO				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	Dry Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	>50% / 62%				
Sample Duration (Intended)	8hr	Purge Concentration	0 / 275ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	57%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-EA	Sample ID		Sample ID	
Canister ID		Canister ID	1709	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0829	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 2000	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/20/18 340	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.88	Start Pressure		Start Pressure	
End Pressure		End Pressure	-5.04	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	610 ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	NO				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room				Room			
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	71% / 250%				
Sample Duration (Intended)	8hr	Purge Concentration	510ppm / 100ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-G2	Sample ID		Sample ID	
Canister ID		Canister ID	1038	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0904	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1110	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1925	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.79	Start Pressure		Start Pressure	
End Pressure		End Pressure	-15.74	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	1500ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	No				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lower	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)		Comments			
Laboratory used	Alpha	Chamber concentration	68% / 71%				
Sample Duration (Intended)	8hr	Purge Concentration	400ppm 250 ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055						
Date	6/19/18						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-JI	Sample ID		Sample ID	
Canister ID		Canister ID	11625	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0014	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1121	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1520	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-30.14	Start Pressure		Start Pressure	
End Pressure		End Pressure	-5.59	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	925 ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	Yes	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	No				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	>50% / 58%				
Sample Duration (Intended)	8hr	Purge Concentration	2.7% / 600ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055						
Date	6/19/18						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP IA-DUP Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-J4	Sample ID		Sample ID	
Canister ID		Canister ID	1553	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0492	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1123	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1922	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.75	Start Pressure		Start Pressure	
End Pressure		End Pressure	-7.0	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	1400ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor	No	For indoor location:		For outdoor location:	
		Floor slab depth	~6"				
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	>50% / 71%				
Sample Duration (Intended)	8hr	Purge Concentration	0 / 900ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CE	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-JS	Sample ID		Sample ID	
Canister ID		Canister ID	780	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	01056	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 2002	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/20/18 356	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.61	Start Pressure		Start Pressure	
End Pressure		End Pressure	-6.92	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	1200 ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36"	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	NO				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1'			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
			& Gravel			Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	64% / 61%				
Sample Duration (Intended)	8hr	Purge Concentration	720ppm / 175 ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055						
Date	6/19/18						

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-060918-SS-K3	Sample ID		Sample ID	
Canister ID		Canister ID	635	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0048	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1613	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1903	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.76	Start Pressure		Start Pressure	
End Pressure		End Pressure	-7.19	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	1200 ppb / 0.0 / 11.7	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	No				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room				Room		Wind Direction	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	78% / 54%				
Sample Duration (Intended)	8hr	Purge Concentration	3% / 1300 ppm				

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Multiple Vapor Intrusion Sampling Form

		Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54
		Structure Location		Humidity(%)	51%
Project #	64466	Sample Location(s)		Weather Conditions	Sunny
Project Name	Lockheed Martin				
Site Code	734055				
Date	6/19/18				

				Building Survey/Chemical Inventory Form Completed?	N
				Photographs Taken?	N
				PID Meter ID	10.6 / 11.7
				Date of Calibration	6/19/18

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID		Sample ID	FR-061918-SS-M2	Sample ID		Sample ID	
Canister ID		Canister ID	903	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0951	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1111	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1855	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-29.79	Start Pressure		Start Pressure	
End Pressure		End Pressure	-5.17	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	550 ppb / 0.10 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36	PID reading		PID reading	
in. tubing used		Tubing purged?	YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
		Noticeable odor	NO				
For indoor location:		Floor slab depth	~6"	For indoor location:		For outdoor location:	
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type			
Room				Room		Intake height above ground level (in)	
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	65% / 58%				
Sample Duration (Intended)	8hr	Purge Concentration	700 ppm / 500 ppm				

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Multiple Vapor Intrusion Sampling Form

Collector(s)	EA/CF	Barometric Pressure(in Hg)	29.54 @ 0 Feet	Building Survey/Chemical Inventory Form Completed?	N
Structure Location		Humidity(%)	51%	Photographs Taken?	N
Project #	64466	Sample Location(s)		Weather Conditions	Sunny	PID Meter ID	10.6/11.7
Project Name	Lockheed Martin					Date of Calibration	6/19/18
Site Code	734055				
Date	6/19/18				

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: SS-DUP / IA-DUP / Indoor Air		Ambient	
Sample ID	~~FR-060418-SS-P1~~	Sample ID	FR-060918-SS-P1	Sample ID		Sample ID	
Canister ID		Canister ID	691	Canister ID		Canister ID	
Flow Controller ID		Flow Controller ID	0618	Flow Controller ID		Flow Controller ID	
Date/Time start		Date/Time start	6/19/18 1119	Date/Time start		Date/Time start	
Date/Time end		Date/Time end	6/19/18 1919	Date/Time end		Date/Time end	
Gauge prior to start		Gauge prior to start	0	Gauge prior to start		Gauge prior to start	
Start Pressure		Start Pressure	-28.67	Start Pressure		Start Pressure	
End Pressure		End Pressure	-5.44	End Pressure		End Pressure	
Complete all that apply:		Complete all that apply:		Complete all that apply:		Complete all that apply:	
		Air temperature (°F)	~75				
Air temperature (°F)		PID reading	1600 ppb / 0.0 (11.7)	Air temperature (°F)		Air temperature (°F)	
PID reading		in. tubing used	~36	PID reading		PID reading	
in. tubing used		Tubing purged?	not Le YES	in. tubing used		in. tubing used	
Tubing purged?		For indoor location:		Tubing purged?		Tubing purged?	
For indoor location:		Noticeable odor	No	For indoor location:		For outdoor location:	
		Floor slab depth	~6"				
		Intake depth below floor (in)	~1"			Noticeable odor	
Noticeable odor		Floor surface type	Concrete	Noticeable odor		Distance to road (ft)	
Floor slab depth		Room		Floor slab depth		Direction to site building (°)	
Intake height above floor (in)		Story/level	Lowest	Intake depth below/above floor (in)		Distance to site building (ft)	
Floor surface type		SS-Moisture(Circle)	(Dry) Damp Saturated	Floor surface type		Intake height above ground level (in)	
Room				Room			
Story/level		SS-Material(Circle)	Dirt Wood Stone Fill	Story/level		Wind Direction	
						Wind Speed	
Analytical methods required	TO-15	Tracer Gas(if applicable)	He	Comments			
Laboratory used	Alpha	Chamber concentration	>50% / 57%				
Sample Duration (Intended)	8hr	Purge Concentration	2400ppm / 1000ppm				

SSDS Commissioning Documentation

Installation and Operation Commissioning Checklist

Address: 241 Farrell Rd Bldg 2 **Structure ID #:** _____

Performed by: EA **Date:** 9/20/16

System Performance Data

Fan Inlet Static Pressure (vacuum)

Fan System	SSDS-05	SSDS-06	SSDS-03	4	5
Fan Model	HS-5000	HS-5000	HS-5000		
U-Tube Reading ("w.c.)	-44"-37"	-8"	-7.2"		

Is each fan mounted securely?	☑Yes	☐No	
Coupling connections secure?	☑Yes	☐No	
Is excessive noise heard when fan is running?	☐Yes	☑No	
Is set point indicated on speed controller?	☐Yes	☐No	☑NA
Is the pipe and conduit penetration sealed to the structure's exterior?	☑Yes	☐No	
If fan vacuum is at maximum, measure velocity at each SSP (record below).			
Does the SSP velocity meet criteria (> 1 ft/min)?	☐Yes	☐No	☑NA

Sub-Slab/Sub-Membrane SSP Static Pressure (vacuum)

SSP#	Static Pressure (" w.c.)	Fan System	Velocity at SSP (ft/min)
1	-7.2	SSDS-05	
2	-37	SSDS-05	
3	-8	SSDS-06	

Final Communication Test Results (Sub-Slab)

Communication test point	Recorded on Separate Page At End of Forms				
Manometer reading (" w.c. vacuum)					
Does smoke enter? (sub-slab ventilation systems only)					

Communication test point					
Manometer reading (" w.c. vacuum)					
Does smoke enter? (sub-slab ventilation systems only)					

Were all fans in operation during final communication test?	☑Yes	☐No	
Were all valves locked after final communication test?	☐Yes	☐No	☑NA
Was the pressure reading at each test point ≤ -0.004"w.c.?	☐Yes	☐No	☑NA
Was maximum building depressurization simulated during test?	☐Yes	☑No	
Was there precipitation during the previous 24 hours?	☑Yes	☐No	
What was the apparent wind speed?	☑Calm	☐Light	☐Strong

Installation and Operation Commissioning Checklist

Address: 241 Farrell Rd Bldg 2 **Structure ID #:** _____

Performed by: EA **Date:** 9/20/16

Accessible Crawlspace Performance Inspection (Sub-membrane Depressurization)

Was each membrane joint and perimeter smoke tested and found to be sealed? ☐Yes ☐No ☒NA

Is the manometer reading ≥ 1/10" w.c. vacuum? ☐Yes ☐No ☒NA

Inaccessible Crawlspace Data (Ventilation) ☒NA

	Crawlspace 1	Crawlspace 2	Crawlspace 3	Crawlspace 4
SSP#				
Crawlspace volume (ft^3)				
Suction pipe diameter (in.)				
Target velocity (ft/min)				
Measured velocity (ft/min)				
Meets criteria (≥ 90%) - Y or N				

Backdraft Test Results

Was commissioning backdraft test performed? ☐Yes ☒No

Was backdraft test conducted under maximum building depressurization? ☐Yes ☒No

On what combustion appliances was a backdraft test performed? * ☐Hot Water Heater ☐Dryer ☐Fireplace (damper closed) ☐Furnace / Boiler ☐Fireplace (damper opened) ☐Other_____

Was any combustion appliance not operable and could not be tested? ☒Yes ☐No

If yes, which appliances: Combustion Devices are not in operation

Is there is a backdraft on any appliance? ☐Yes ☐No

(If yes, explain) **

Was a previous backdraft condition present during any previous visit? ☐Yes ☒No ☐NA

* Do not operate whole house fan during backdraft test.

** If backdraft exists, shut down SSD system. Backdraft will need to be corrected prior to re-energizing system.

** If backdraft exists, please notify the property owner. Owner was notified on: (date) _____

Installation and Operation Commissioning Checklist

Address: 241 Farrell Rd Bldg 2 **Structure ID #:** _____

Performed by: EA **Date:** 9/20/14

Electrical System Installation Inspection

Are all electrical connections secure?	☑Yes	☐No	
Are all switches locked on?	☐Yes	☑No	☐NA
Are audible alarm(s) present and working?	☐Yes	☐No	☑NA
Is each junction box closed?	☑Yes	☐No	☐NA
Is the conduit/wire properly supported?	☑Yes	☐No	☐NA
Are appliances affected by fan operation?	☐Yes	☐No	NA

Pipe System Performance

Are all pipe runs properly supported (6'-horizontal/8'-vertical)?	☑Yes	☐No	
Were 10% of all pipe joints smoke tested?	☑Yes	☐No	
Did smoke enter?	☐Yes	☑No	
Are manometers installed at each suction point?	☑Yes	☐No	☐NA
Are system suction point seals accessible?	☑Yes	☐No	
System suction points are sealed to the slab?	☑Yes	☐No	
Each component is installed?	☑Yes	☐No	
Excessive noise is heard in piping joints?	☐Yes	☑No	

Slab/Wall Repair Performance

Were drawing-identified slab and wall crack repairs/modifications smoke tested?	☐Yes	☐No	☑NA
Did smoke enter?	☐Yes	☐No	☑NA
Are there other visible cracks that did not draw smoke?	☑Yes	☐No	
Are there areas of the slab and/or walls that are not visible (e.g. finished areas)?	☑Yes	☐No	
Are there areas of the slab and/or walls that are not accessible (e.g. stored items)?	☐Yes	☑No	
Are utility penetrations sealed so they don't draw smoke?	☑Yes	☐No	☐NA
Is top course of block wall open?	☐Yes	☐No	☑NA
Did top course of block wall draw smoke after sealing?	☐Yes	☐No	☑NA
Are sump cover(s) present and sealed properly?	☐Yes	☐No	☑NA
Is sump cover structurally sound?	☐Yes	☐No	☑NA
Check and clean Dranjer(s)?	☐Yes	☐No	☑NA
Smoke Dranjer(s)?	☐Yes	☐No	☑NA

Labeling Inspection

Correct labels applied in the proper locations?	☑Yes	☐No	
Commisioned value written on SSP sticker?	☑Yes	☐No	
Is SSDS breaker identified in the electrical panel?	☑Yes	☐No	

Installation and Operation Commissioning Checklist

Address: 941 Farrell Rd Bldg 2 **Structure ID #:** _____

Performed by: EA **Date:** 9/20/12

System Exhaust

Are there vents to occupiable attic space?	☐Yes	☑No	
Are HVAC units installed in attic space?	☐Yes	☑No	
Are there any roof mounted air intakes that supply air into the structure?	☐Yes	☑No	
Is building equipped with a whole house fan(s)?	☐Yes	☑No	
Has Homeowner been informed to only operate the whole house fan(s) with all windows open?	☐Yes	☐No	☑NA
Does the condensate line appear to be functioning correctly?	☐Yes	☐No	☑NA
Are all fan exhaust stacks installed?	☑Yes	☐No	
At least **1 foot** above the eave of the roof?	☑Yes	☐No	Distance above eave: ~14"
At least **10 ft** above ground level?	☑Yes	☐No	
At least **10 ft** away from any windows, doors, chimneys, or other openings into conditioned or otherwise occupied spaces?	☑Yes	☐No	Distance from opening: NA
If not 10 ft away, at least **2 ft** above windows, doors, chimneys, or other openings into conditioned or otherwise occupied spaces?	☐Yes	☐No	Distance above opening: NA ☑NA
Is it sufficiently sealed where downspout meets PVC pipe?	☐Yes	☐No	☑NA

Documentation

Were digital photographs taken of post-installation conditions?	☑Yes	☐No	
Was Homeowner provided "Operational Fact Sheet"?	☐Yes	☐No	
Was a field modification form completed to record installation changes?	☐Yes	☐No	☐NA
Was the drawing updated to show installed components?	☐Yes	☐No	

Comments:

SSDS OB BREAKER COULD NOT BE LOCATED

Final Sub-Slab Communication Test Results

Communication Test Point (CTP)		Manometer Reading ("wc)
A (SS-08)		-1.9
B		-0.124
C		-0.053
D		-0.371
E		-0.067
F (SS-05)		-0.087
G		0.000
H		-0.008
I		0.000
J		-0.046
K		-0.013
L		-0.020
M		-0.004
N		-0.002
O		-0.009
P (SS-06)		-0.008
Q		-0.034
R		-0.002
S		-0.037

OBG

THERE'S A WAY