# ELTON CROSSING (MELROSE C FAMILY)

**432 EAST 162ND STREET (899 ELTON AVENUE)**
**BRONX, NEW YORK**

## Soil Vapor Intrusion Evaluation Report

**NYSDEC BCP Site No: C203073**
**AKRF Project Number: 11901**

**Prepared for:**

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# 1.0 INTRODUCTION

This Soil Vapor Intrusion Evaluation Report (SVIER) has been prepared by AKRF, Inc. (AKRF) on behalf of Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing Low-Income Housing Tax Credit (LIHTC) Associates, LLC (collectively, the Volunteer) for the property located at 432 East 162nd Street (899 Elton Avenue) in the Bronx, New York, hereafter referred to as the "Site". The Site is identified on the New York City Tax Map as Bronx Borough Block 2383, Lot 19 (former Lots 19, 25, 27, 30, 35, 8900, and the formerly unmapped section of Melrose Crescent from East 161st Street to East 162nd Street). The Site is an approximately 0.695-acre parcel bounded by: East 162nd Street to the north, beyond which is a construction site (Melrose Commons Site B, aka Bronx Commons); East 161st Street to the south, beyond which are residential and commercial buildings; Elton Avenue, followed by Boricua College and the O'Neill Triangle Park, to the east; and residential buildings and open land to the west. A Site Location Map is provided as Figure 1 and a Site and Sample Location Plan is provided as Figure 2.

The Site was investigated and remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) in accordance with Brownfield Cleanup Agreement (BCA) Index No. C203073-11-14, which was executed in November 2014 and amended in October 2016. The Site was remediated to Track 4 Site-Specific Soil Cleanup Objectives (SSSCOs) in accordance with the NYSDEC-approved June 2015 Remedial Action Work Plan (RAWP) and Decision Document (DD), as documented in the December 2016 Final Engineering Report (FER). After receipt of the Certificate of Completion (COC) in December 2016, the Site was redeveloped into an approximately 171,017-gross square foot residential building with retail on the first floor, at-grade parking, and a centrally-located exterior courtyard. Post-remedial Site monitoring requirements were established in the NYSDEC-approved December 2016 Site Management Plan (SMP). The inaugural Periodic Review Report (PRR), submitted to NYSDEC in August 2018 and approved in October 2018, documented and certified that the Site's Engineering Controls (ECs), Institutional Controls (ICs), and all relevant BCP requirements during the inaugural 18-month reporting period from December 16, 2016 to April 16, 2018 were adhered to in accordance with the SMP.

This SVIER describes the sampling methodology, analytical results, and conclusions of the Soil Vapor Intrusion (SVI) Evaluation (SVIE) conducted at the Site. The results of the SVIE were used to determine whether the sub-slab depressurization system (SSDS), currently operating in a passive state, required activation. The SVIE included: a pre-sampling inspection; chemical inventory; and collection and laboratory analysis of five sub-slab soil vapor samples, five indoor air samples, and one ambient (outdoor) air sample. The work described in this SVIER was conducted in accordance with the NYSDEC-approved Vapor Intrusion Assessment Work Plan (VIWP), and the Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP), included as Appendices J and H of the SMP, respectively.

# 2.0 PREVIOUS INVESTIGATIONS

*Phase I Environmental Site Assessment (ESA) Report – 432-440 East 162nd Street, 446 East 162nd Street, 448-450 East 162nd Street, 903 Elton Avenue, 901 Elton Avenue, 899 Elton Avenue, 897 Elton Avenue, 433-435 East 161st Street, 429-431 East 161st Street, and 425 East 161st Street (Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, 37, 39, 8900, a section of Melrose Crescent between East 161st and East 162nd Streets, frontage on the north side of East 161st Street, west side of Melrose Crescent and a portion of old Lot 33, and part of unbuilt Melrose Crescent between East 162nd Street and East 161st Street comprising old lots 22, 23, 24, and a portion of old Lot 33 as well as part of former Lots 25, 30, and 31), Bronx, New York, Environmental Health Investigations, Inc. (EHI), February 2011*

The Phase I ESA prepared by EHI identified several on- and off-site environmental conditions that may have affected the Site, including the following historic uses: a factory, metal works, automobile garage, glass works, freezer and oven mobile unit warehouse, glazer, plumbing and heating store, undertaker, beauty shop, dentist, and funeral home. The use of oils and other petroleum-containing fluids, acids, solvents, formaldehyde, phenol, methanol, and heavy metals are commonly associated with these historic uses. Suspect asbestos-containing material (ACM), lead-based paint (LBP), mercury-containing fluorescent light bulbs, and polychlorinated biphenyl (PCB)-containing fluorescent light ballasts were also identified in the former building on former Lot 19.

The surrounding area was historically mixed-use and included: a gasoline station, automotive repair facilities, and a paint store south of the Site along East 161st Street; a dry cleaner west of the Site along East 161st Street; and a BCP Site south of the Site across East 161st Street. The Phase I ESA also noted that, due to past residential development at the Site, there was a possibility that underground storage tanks (USTs) may have existed at the Site. However, no information regarding the status of former petroleum storage tanks on the Site was included in the Phase I ESA.

*Inspection for Asbestos Containing Materials (ACM) – 440 East 162nd Street, Bronx, New York, ALC Environmental, Inc., (ALC) July 2011*

ALC conducted an asbestos survey within the former Site building. A total of 57 bulk samples were collected and analyzed for asbestos. The findings of the asbestos survey identified chrysotile, a type of asbestos, within the former building in 9-inch by 9-inch vinyl floor tiles and mastic in the front room, 12-inch by 12-inch vinyl floor tile and mastic in the office area, roof membrane, and parapet roof mastic.

*Geotechnical Investigation Report – East 161st Street and Elton Avenue, Bronx, New York, Tectonic Engineering and Surveying Consultants (Tectonic), February 2014*

Tectonic conducted a geotechnical engineering investigation of the Site, which included the advancement of 46 borings and the excavation of 4 test pits. Two observation wells were installed within two of the borings. The report noted that one of the observation wells was dry. Unconsolidated fill was reportedly encountered at depths ranging from 2 to 14 feet below grade, generally consisting of sand with varying amounts of silt and gravel. The fill was underlain by native sand, silt, gravel, cobbles, and boulders, typically encountered between 4 and 13 feet below grade. At several locations, abundant brick, debris, and refuse were encountered at depths extending to bedrock, which was encountered between 7.5 and 23 feet below grade. Groundwater was observed within bedrock fractures at approximately 20.5 feet below grade; no surficial groundwater encountered.

*Sampling Protocol and Health and Safety Plan (HASP) – Melrose Commons Site C – Family, Tax Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, and 8900, and a section of Melrose Crescent, between East 161st Street and East 162nd Street, AKRF, February 2014*

AKRF prepared a Sampling Protocol and associated HASP for the Site. The Sampling Protocol proposed a geophysical survey across accessible areas of the Site, advancement of 13 soil borings with continuous sample collection and laboratory analysis of up to 3 soil samples from each boring, the installation of four 2-inch diameter groundwater monitoring wells with the collection and laboratory analysis of 4 groundwater samples, and the installation of 6 temporary soil vapor probes with the collection and laboratory analysis of 6 soil vapor samples. The HASP provided Site-specific health and safety measures during implementation of the investigation. The scope of the investigation was based on the previous reports and investigations for the Site.

*Remedial Investigation (RI) Report (RIR) – Melrose Commons Site C – Family, Block 2328, Lots 19, 25, 27, 29, 30, 31, 35, 8900, and section of Melrose Crescent between East 161st Street and East 162nd Street, AKRF, April 2014*

AKRF conducted an RI at the Site that included the advancement of 14 soil borings and installation of 6 temporary soil vapor probes, with collection and laboratory analysis of soil, soil vapor, and ambient air samples. Groundwater was not encountered during the investigation. The results of the soil sampling identified some elevated semivolatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) in soil; and some elevated concentrations of petroleum- and solvent-related volatile organic compounds (VOCs) in soil vapor. Based on an evaluation of the data and information from the investigation, AKRF concluded that contaminated soil and soil vapor were present at the Site. The elevated concentrations of xylenes, photoionization detector (PID) readings, staining, and petroleum odors were attributed to former fuel oil use at the Site. The SVOCs, PCBs, and metals concentrations and chemical-like odor observed in soil; and the VOCs in the soil vapor were attributed to the historic use at the Site and subsequent demolition of the former structures. The elevated levels of pesticides indicated the prior usage of pesticides at the Site and possible storage in the cellars of the former structures.

*Brownfield Cleanup Program (BCP) Application – Elton Crossing/Site C – Family, AKRF, August 2014*

AKRF prepared a BCP Application for the Site that summarized findings of previous investigations conducted and attributed soil and soil vapor contamination to the Site's historic uses. The BCP Application identified the threat of contamination as a major obstacle in redevelopment of the Site. The Site was entered into the BCP in November 2014.

*Citizen Participation Plan (CPP) – Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, December 2014*

AKRF prepared a CPP for the Site in December 2014, which provided details on citizen participation activities that occurred at several milestones during the project to encourage citizen involvement in decisions being made about the Site regarding their health.

*Supplemental Remedial Investigation Work Plan (SRIWP) – Melrose Commons Site C – Family/ Elton Crossing, Bronx, New York, AKRF, January 2015*

AKRF prepared an SRIWP and associated HASP for the Site. The SRIWP proposed the advancement of three soil borings with continuous sample collection and laboratory analysis of two soil samples per boring, the installation of three bedrock groundwater monitoring wells with collection and analysis of three groundwater samples, installation of one temporary soil vapor point with collection and laboratory analysis of one soil vapor sample and one ambient air sample, and collection of soil samples from two sump pits and one floor drain discovered within the western portion of the former Site building on former Lot 19.

The HASP provided Site-specific health and safety measures during implementation of the investigation. The scope of the investigation was based on the previous reports and investigations for the Site.

*Phase I Environmental Site Assessment (ESA) Report, Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, April 2015*

AKRF prepared a Phase I ESA Report for the Site. As noted in the report, the Site was developed historically as a factory, a metal works, an automobile garage, a glass works, a freezer and oven mobile unit warehouse, a glazer, a plumbing and heating store, an undertaker, a beauty shop, a dentist, and as a funeral home. A vent, possibly related to a current or former heating oil tank, was observed on the sidewalk north-adjacent to the former Site building on former Lot 19. Certificates of Occupancy were issued for cellar-level boiler rooms, including: former Lot 19 in 1945 and 1963, former Lot 29 in 1961, and former Lot 35 in 1958 and 1965. The regulatory database identified proximal current and/or historical facilities that may have affected the Site subsurface. Additionally, the Site was enrolled in the NYSDEC BCP (Site No. C203073). Subsurface investigations conducted at the Site under the BCP identified elevated levels of VOCs, SVOCs, metals, PCBs, and pesticides in soil and elevated levels of VOCs in soil vapor, which were attributed to the historic use of the Site. Other environmental concerns identified in the report included ACM throughout the former Site building interior and on exterior built-up roofing materials, which were reported to be in poor condition. At the time of the Site inspection, asbestos abatement was ongoing. The report noted that, based on the building's age, LBP may have been present. Painted surfaces were reported to be in fair to poor condition. Based on the building's age, fluorescent lighting fixtures and electrical equipment on the Site may have contained mercury and/or PCBs.

Based on the findings of the Phase I ESA Report, AKRF recommended implementation of a NYSDEC-approved RAWP under the BCP. AKRF also recommended the proper handling and disposal of any soil and debris excavated as part of redevelopment and that dewatering, if necessary, should be conducted in accordance with a New York City Department of Environmental Protection (NYCDEP) permit.

*Supplemental Remedial Investigation (SRI) Report (SRIR) – Elton Crossing/Site C – Family, AKRF, June 2015*

AKRF conducted an SRI at the Site in February and March 2015 in general accordance with the SRI Work Plan and HASP. The investigation included: collection and laboratory analysis of one soil sample from a floor drain within the building; advancement of three soil borings with continuous sample collection and laboratory analysis of ten soil samples; installation of three bedrock groundwater monitoring wells with collection and laboratory analysis of three groundwater samples; installation of one temporary soil vapor probe with collection and laboratory analysis of one soil vapor sample and one ambient air sample. The two sump pits within the former building were concrete-paved and could not be sampled. Bedrock was encountered between approximately 9 and 17 feet below grade and groundwater was encountered within bedrock between approximately 14.7 and 17.2 feet below grade. Based on Site-specific groundwater measurements collected during the SRI, groundwater flow was generally to the northwest; however, regional groundwater flow was noted to be generally to the south towards the Harlem River, located approximately 1.7 miles south of the Site. No surficial groundwater was encountered.

According to the report, several SVOCs, metals, PCBs, and pesticides were detected above applicable standards in the soil samples. Several VOCs and metals were detected above applicable standards in the groundwater samples, although the detected metals were typical of Bronx groundwater quality and not indicative of Site-specific concerns. Several petroleum- and solvent-related VOCs were detected at elevated concentrations.

*Remedial Action Work Plan (RAWP) and Decision Document (DD) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, June 2015*

AKRF prepared a RAWP for the Site. The RAWP outlined the remedial action objectives, which established procedures and cleanup objectives for the protection of public health and the environment. The RAWP established Track 4 SSSCOs and soil handling procedures, required the installation of a vapor barrier and sub-slab depressurization system (SSDS) to address potential vapor intrusion into the proposed building, a Site-wide composite cover system to prevent direct exposure to residual contamination in soil, and outlined a project schedule for construction. The RAWP included a HASP and CAMP for Site worker and community safety. The NYSDEC-issued DD described the selected remedy outlined in the RAWP.

*Soil Waste Characterization Results (Reports 1 and 2) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, July 2015*

AKRF conducted soil waste characterization sampling for disposal purposes. Thirteen test pits were excavated to varying depths based on proposed excavation depths across the Site. One soil sample was collected per approximately 800 cubic yards of soil proposed to be disposed of and analyzed for VOCs, SVOCs, PCBs, pesticides, Target Analyte List (TAL) and Toxic Characteristic Leaching Potential (TCLP) metals, hexavalent chromium, total cyanide, total sulfur, ignitability, reactivity, corrosivity, diesel range organics (DRO), gasoline range organics (GRO), and extractable petroleum hydrocarbons (EPH).

The analytical results were used to gain approval for off-site disposal at several facilities, including soil containing hazardous levels of lead on the northern portion of the Site.

*Brownfield Cleanup Agreement (BCA) Amendment – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, October 2016*

AKRF prepared a BCA Amendment Application for the Site in October 2016. The BCA Amendment Application documented: (1) the transfer of property ownership, (2) the addition of two Applicants - Elton Crossing Moderate Associates, LLC; and Elton Crossing LIHTC Associates, LLC, (3) the change of address, and (4) the merger of the former property lots into one lot to support the redevelopment plan. The BCA Amendment was executed on November 3, 2016.

*Final Engineering Report (FER) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016*

AKRF prepared an FER for the Site. The FER included: a summary of the Track 4 remedy; a description of the remedial actions performed; installation details for the vapor barrier, composite cover system, and SSDS; a summary of ICs; and a summary of deviations from the RAWP. The FER was approved by NYSDEC in December 2016.

*Site Management Plan (SMP) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016*

AKRF prepared an SMP for the Site. The SMP included Site-specific implementation procedures for the ICs and ECs required by the Environmental Easement (EE), including use restrictions and detailed media-specific maintenance requirements to ensure the ICs and ECs remain in-place and effective. The SMP was approved by NYSDEC in December 2016.

*Periodic Review Report (PRR) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, August 2018*

AKRF prepared the inaugural PRR for the Site. The PRR documented and certified that the Site's ECs and ICs were implemented in accordance with the SMP and all relevant BCP requirements during the inaugural 18-month reporting period from December 16, 2016 to April 16, 2018. The PRR also documented additional work conducted from April 16, 2018 to June 13, 2018 under the SMP, including the installation and pressure testing of the SSDS aboveground piping and accessories, and the excavation and replacement of certain elements of the composite cover system. The PRR was approved by NYSDEC in October 2018.

*Vapor Intrusion Assessment Work Plan (VIWP) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, September 2018*

AKRF prepared a VIWP for the Site. The VIWP described the pre-sampling survey, soil vapor, indoor air, and ambient air sampling procedures, laboratory analysis, and reporting requirements that were used during the SVIE. The results of the SVIE, described in this document, were used to determine whether the SSDS, currently operating in a passive state, requires activation. The VIWP was approved by NYSDEC in October 2018.

# 3.0 SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS)

Installation of an SSDS was required as part of the Track 4 remedy to mitigate the potential for soil vapor intrusion into the new Site building. The sub-slab components of the SSDS were installed between November 2015 and March 2016 and the aboveground piping and accessories were installed between January and June 2018 in conjunction with construction of the superstructure. The components of the SSDS include the following, which are shown on Figure 2:

- One 0.02-inch slotted, 4-inch diameter Schedule 40 polyvinyl chloride (PVC) pipe section (VR-1A) in the northeastern portion of the Site beneath the partial cellar;
- Three 0.02-inch slotted, 4-inch diameter Schedule 40 PVC pipe sections in the southern and southeastern portions of the Site beneath the slab-on-grade portions of the building (VR-1B, VR-1C, and VR-1D);
- One manifold, which combines the four 4-inch diameter galvanized steel aboveground pipes into one 6-inch diameter galvanized steel riser pipe (VR-1);
- One galvanized steel header, which extends from the manifold in the partial cellar to the roof ;
- A 10-foot, 10-inch tall, 6-inch diameter galvanized steel rooftop exhaust stack fitted with a rain cap;
- Communication and pipe sleeves through concrete foundation elements;
- Two sub-slab condensate drains; and
- Five vacuum monitoring points (MP-1 through MP-5).

The sub-slab SSDS piping runs within the approximately 5,000-square foot zone beneath the partial cellar in the northeastern portion of the Site and the approximately 12,000-square foot zone beneath the ground floor in the southern, southeastern, and eastern portions of the Site. Piping in these locations consists of 4-inch diameter PVC with 0.020-inch slots, with solid PVC piping installed between the slotted segments. A 6-inch to 4-foot thick, ¾-inch gas permeable aggregate (GPA) stone bedding was installed under, around, and above all sub-slab PVC piping (and under the vapor barrier) to promote passive movement of sub-slab soil vapor towards the slotted pipe segments.

Five vacuum monitoring points (MP-1 through MP-5) were installed at the perimeter of the treatment areas for sub-slab vapor collection and to monitor induced vacuum within the sub-slab if system activation becomes necessary. The monitoring points are constructed with 1-inch diameter solid Schedule 80 PVC pipe with a threaded PVC cap and a male quick connect fitting with ¼-inch threads and a shut off valve with a Viton seal. The PVC pipe terminates approximately three inches below the bottom of the concrete slab within the GPA. Penetrations through the concrete slab are air tight to prevent the potential migration of sub-slab vapors into the building. Each monitoring point is finished with a 6-inch diameter cast iron, flush-mount cleanout with an affixed metal tag engraved with the monitoring point identification number (i.e., MP-1 through MP-5).

The slotted PVC piping transitions to riser pipes VR-1A, VR-1B, VR-1C, and VR-1D within the telecommunications/SSDS manifold room in the partial cellar. Pipe material within the room consists of 4-inch diameter solid galvanized steel. All solid pipe segments (aboveground and belowground) are pitched a minimum of ⅛-inch vertical per one foot horizontal run (i.e., a minimum 1% slope) towards the slotted pipe sections or to the condensation drains to minimize accumulation of condensation within piping.

The four horizontal riser pipes (VR-1B, VR-1C, and VR-1D) and one vertical riser pipe (VR-1A) connect to a 6-inch diameter galvanized steel header within the telecommunications/SSDS cellar room, which manifolds the network into one 6-inch diameter galvanized steel vertical riser pipe (VR-1) extending to the roof of the 12-story building. The SSDS exhaust stack rises 10 feet, 10 inches high above the 10$^{th}$ floor roof and is fitted with a rain cap. The stack complies with requirements established in the 2008 NYC

Mechanical Code Section 512, "Subslab Soil Exhaust Systems". SSDS as-built drawings are provided as Appendix A.

# 4.0 FIELD ACTIVITIES

On November 19 and 20, 2018, AKRF conducted an SVIE to determine whether the SSDS, which is currently operating in a passive state, should be activated to prevent contaminated vapors from entering the Site building. The SVIE included: a pre-sampling inspection and chemical inventory; and collection and laboratory analysis of five soil vapor air samples, five indoor air samples, and one ambient (outdoor) air sample. The SVIE was conducted in general accordance with the October 2018 NYSDEC-approved VIWP.

The sample locations are shown on Figure 2. A photographic log documenting the field activities is included as Appendix B and the New York State Department of Health (NYSDOH) Pre-Inspection Survey and chemical inventory is included as Appendix C.

## 4.1 Pre-Sampling Building Inspection and Chemical Inventory

On November 19, 2018, AKRF completed a pre-sampling inspection to document interior Site building characteristics, building occupancy, air flow patterns, utilities, building operations, chemical and maintenance product inventory, and any other known factors that may affect indoor air quality. AKRF personnel also visually inspected the building slabs to confirm their integrity. The building slabs were in good condition with no cracks or penetrations observed. One sump pump was observed in the telecommunications room of the partial cellar. No other apparent preferential pathways for vapor intrusion were observed. At the time of the inspection, the heating venting and air conditioning (HVAC) system was not in operation and air flow patterns were indiscernible. In addition, AKRF completed a pre-sampling questionnaire based on an interview with Mr. Cabral, who answered pertinent questions about the building's age, construction characteristics, HVAC, and factors that may potentially influence indoor air quality.

A ppbRAE™ PID capable of detecting VOCs in the parts per billion (ppb) range equipped with a 10.6 electron Volt (eV) lamp was used to field-screen the indoor air for the presence of organic vapors. Background PID readings up to 63 ppb were detected in the partial cellar, and PID readings up to 2,873 ppb were detected in the ground floor lobby. According to Mr. Ruddy Cabral of Briarwood Organization, Inc., construction superintendent for the Site, the lobby floors were cleaned immediately prior to inspection of the ground floor lobby, which is believed to account for the elevated PID readings in the lobby.

Relevant sections of a NYSDOH Indoor Air Quality Questionnaire and Chemical Inventory form were completed to document the results of the inspection. A copy of the form is included as Appendix C.

## 4.2 Soil Vapor, Indoor, and Ambient Air Sampling

Five soil vapor samples (MP-1_20181120 through MP-4_20181120, and MP-5_20181119), five indoor air samples (IA-1_20181120 through IA-5_20181120), and one ambient air sample (AA-1_20181120) were collected on November 19 and 20, 2018 from the locations shown on Figure 3. The soil vapor and indoor air samples were co-located and the ambient air sample was collected from the exterior courtyard. During sampling, the building remained sealed (all windows and doors closed), the HVAC was not operational, and the building was occupied by a minimal number of building staff on the ground and cellar floors. The samples were collected over an approximately 24-hour period, with the exception of sample MP-5_20181119, which achieved pressure of -3.0 inches of mercury (in Hg) after approximately 2 hours.

Prior to sampling, each of the sub-slab soil vapor points (MP-1 through MP-5) were purged using a GilAir Plus air sampling pump. During purging, a shroud was placed over the sampling point and helium gas was introduced through a small hole in the shroud to saturate the atmosphere around

the sample port with helium gas. The purged vapors were collected in a 1-Liter Tedlar® bag and monitored using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point, and to verify the adequacy of the seal. Helium was not detected at any of the installed soil vapor points indicating that all of the points passed the seal integrity tests. Purged vapors from the soil vapor samples were field-screened for VOCs using a calibrated PID. PID readings of 101 ppb, 56.4 ppb, 50.4 ppb, 19.9 ppb, and 5,093 ppb were detected at monitoring points MP-1, MP-2, MP-3, MP-4, and MP-5, respectively. After purging, the probe was connected via Teflon™ lined tubing to a laboratory-supplied 6-Liter SUMMA® canister equipped with a 24-hour flow controller set to restrict the flow to not more than 3.4 mL/min.

The indoor and ambient air samples were collected concurrently with the sub-slab soil vapor samples. The SUMMA canisters were placed approximately 3 to 5 feet above the floor to simulate the breathing zone. Sampling information was recorded on sampling logs, which are provided in Appendix D. Sample locations are shown on Figure 2. In-Text Table 1 summarizes sample locations and IDs.

**In-Text Table 1**
**Soil Vapor, Indoor Air, and Ambient Air Sample Summary**

| Sample Location ID | Sample ID | Location |
|---|---|---|
| MP-1/IA-1 | MP-1_20181120/ IA-1_20181120 | Partial Cellar, Electric Room |
| MP-2/IA-2 | MP-2_20181120/ IA-2_20181120 | Ground Floor, Northeastern Storefront Area |
| MP-3/IA-3 | MP-3_20181120/ IA-3_20181120 | Ground Floor, Central Storefront Area |
| MP-4/IA-4 | MP-4_20181120/ IA-4_20181120 | Ground Floor, Southwestern Storefront Area |
| MP-5/IA-5 | MP-5_20181119/ IA-5_20181120 | Ground Floor, Recreation Room |
| AA-1 | AA-1_20181120 | Ground Floor, Exterior Courtyard |

# 5.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The SUMMA® canisters were delivered with a chain-of-custody (COC) by courier to Test America Laboratories, Inc. (Test America) of South Burlington, Vermont, an Environmental Laboratory Approval Program (ELAP)-certified laboratory. The samples were analyzed for VOCs by Environmental Protection Agency (EPA) Method TO-15 with Category B deliverables. Third-party data validation was performed by L.A.B. Validation Corp. of Northport, New York and a data usability summary report (DUSR) was prepared. The laboratory analytical report is provided in Appendix E and the DUSR is provided in Appendix F.

Chemical analytical work has been performed under a quality assurance program that includes the following:

| Factor | Description |
|---|---|
| Quality Assurance Officer | The chemical analytical QA/QC was directed by Deborah Shapiro, QEP of AKRF. |
| Third Party Data Validator | The third-party data validation was performed by Lori Beyer of L.A.B. Validation Corp. |
| Chemical Analytical Laboratory | The chemical analytical laboratory used in this investigation was Test America, Inc. of South Burlington, Vermont, an ELAP-certified laboratory. |
| Chemical Analytical Methods | Soil vapor, indoor air, and ambient air analytical method: VOCs by EPA Method TO-15 |

QA/QC procedures were used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analyses for the SVIE. Laboratory QA/QC procedures and analyses were used to demonstrate whether analytical results were biased, either by interfering compounds in the sample matrix or by laboratory techniques that may have introduced systematic or random errors to the analytical process.

The DUSR indicated that the Gas Chromatography/Mass Spectrometry (GC/MS) analytical methodology was acceptable for the analysis. The reported data agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

# 6.0 FINDINGS

Sub-slab soil vapor and indoor air sample analytical results were compared to the Soil Vapor/Indoor Air Matrices included in the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006, updated May 2017. Decision matrices have only been developed for eight VOCs [1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), carbon tetrachloride, cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, PCE, TCE, and vinyl chloride].

## 6.1 Sub-Slab Soil Vapor Sample Analytical Results

Low concentrations of VOCs were detected in the sub-slab soil vapor samples. Solvent-related VOCs [including acetone, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, methyl ethyl ketone (MEK), methyl isobutyl ketone, trichlorofluoromethane, PCE, and TCE] were detected at individual concentrations up to 300 micrograms per cubic meter (µg/m$^3$) (chloroform) from a diluted analysis. Petroleum-related VOCs [including benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, 2-hexanone, n-heptane, and n-hexane] were detected at individual concentrations up to 18 µg/m$^3$. Of the VOCs detected, only PCE, TCE, carbon tetrachloride have Soil Vapor/Indoor Air matrices. Detections of PCE, TCE, and carbon tetrachloride in sub-slab soil vapor are summarized in In-Text Table 2. Sample locations are shown on Figure 2 and a summary of all sub-slab detections are shown on Figure 3. Complete analytical results are shown in Attached Table 1.

**In-Text Table 2**
**Sub-Slab Soil Vapor Sample Detections for Compounds with Soil Vapor/Indoor Air Matrices**

| **Sample Location ID** | **MP-1** | **MP-2** | **MP-3** | **MP-4** | **MP-5** |
|---|---|---|---|---|---|
| **Compound** | µg/m$^3$ | µg/m$^3$ | µg/m$^3$ | µg/m$^3$ | µg/m$^3$ |
| Carbon Tetrachloride | ND | ND | 0.33 | 0.50 | 0.59 |
| Trichloroethylene (TCE) | ND | ND | 1.2 | ND | ND |
| Tetrachloroethylene (PCE) | ND | ND | 12 | 2.2 | 2.4 |
| Note: ND – Not Detected Above the Reporting Limit | | | | | |

## 6.2 Indoor Air Sample Analytical Results

Low concentrations of VOCs were detected in the indoor air samples. Solvent-related VOCs (including acetone, carbon tetrachloride, chloroform chloromethane, cyclohexane, dichlorodifluoromethane, MEK, methyl isobutyl ketone, and trichlorofluoromethane) were detected at individual concentrations up to 310 µg/m$^3$ (acetone) from a diluted analysis. VOCs typically associated with petroleum (including BTEX, 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, n-heptane, n-hexane, and styrene) were detected in the soil vapor samples at individual concentrations up to 46 µg/m$^3$. The only compound detected with Soil Vapor/Indoor Air matrices was carbon tetrachloride. PCE and TCE were not detected in the indoor air samples. Detections of carbon tetrachloride in sub-slab soil vapor are summarized in In-Text Table 3. Sample locations are shown on Figure 2 and a summary of all indoor air detections are shown on Figure 3. Complete analytical results are shown in Attached Table 1.

**In-Text Table 3**
**Indoor Air Sample Detections for Compounds with Soil Vapor/Indoor Air Matrices**

| Sample Location ID | IA-1 | IA-2 | IA-3 | IA-4 | IA-5 |
|---|---|---|---|---|---|
| **Compound** | µg/m$^3$ | µg/m$^3$ | µg/m$^3$ | µg/m$^3$ | µg/m$^3$ |
| Carbon Tetrachloride | 0.37 | 0.44 | 0.34 | 0.29 | 0.39 |
| Note:<br>ND = Not Detected Above the Reporting Limit | | | | | |

## 6.3 Ambient (Outdoor) Air Sample Analytical Results

Low estimated concentrations of VOCs were detected in the ambient air sample. Detected VOCs included acetone, benzene, carbon tetrachloride, chloromethane, cyclohexane, dichlorodifluoromethane, MEK, n-heptane, n-hexane, toluene, and trichlorofluoromethane. Neither PCE nor TCE were detected in the ambient air sample. The greatest VOC concentration was acetone at an estimated concentration of 16 µg/m$^3$. Sample locations are shown on Figure 2 and a summary of all ambient air detections are shown on Figure 3. Complete analytical results are included in Attached Table 1.

## 6.4 Comparison of Soil Vapor/Indoor Air Analytical Results using NYSDOH Matrices

Of the VOCs detected, only PCE, TCE, carbon tetrachloride have established NYSDOH Soil Vapor/Indoor Air matrices. The remaining compounds with established decision matrices were not detected in the sub-slab soil vapor or indoor air samples. Matrix A is the applicable matrix for TCE and carbon tetrachloride and Matrix B is the applicable matrix for PCE. In-text Table 4 shows the comparison of sub-slab soil vapor to indoor air for carbon tetrachloride. In-text Table 5 shows the comparison of sub-slab soil vapor to indoor air for TCE. In-text Table 6 shows the comparison of sub-slab soil vapor to indoor air for TCE.

**In-Text Table 4**
**Comparison of Sub-Slab to Indoor Air Carbon Tetrachloride**
**Concentrations and Matrix Results**

| Sample Location ID | Sub-Slab Soil Vapor Concentrations (µg/m$^3$) | Indoor Air Vapor Concentrations (µg/m$^3$) | Matrix Result |
|---|---|---|---|
| MP-1/IA-1 | ND | 0.37 | No further action |
| MP-2/IA-2 | ND | 0.44 | No further action |
| MP-3/IA-3 | 0.33 | 0.34 | No further action |
| MP-4/IA-4 | 0.50 | 0.29 | No further action |
| MP-5/IA-5 | 0.59 | 0.39 | No further action |
| Note: ND = Not Detected Above the Reporting Limit | | | |

**In-Text Table 5**
**Comparison of Sub-Slab to Indoor Air TCE**
**Concentrations and Matrix Results**

| Sample Location ID | Sub-Slab Soil Vapor Concentrations (µg/m$^3$) | Indoor Air Vapor Concentrations (µg/m$^3$) | Matrix Result |
|---|---|---|---|
| MP-1/IA-1 | ND | ND | No further action |
| MP-2/IA-2 | ND | ND | No further action |
| MP-3/IA-3 | 1.2 | ND | No further action |
| MP-4/IA-4 | ND | ND | No further action |
| MP-5/IA-5 | ND | ND | No further action |
| Note: ND = Not Detected Above the Reporting Limit | | | |

**In-Text Table 6**
**Comparison of Sub-Slab to Indoor Air PCE**
**Concentrations and Matrix Results**

| Sample Location ID | Sub-Slab Soil Vapor Concentrations (µg/m$^3$) | Indoor Air Vapor Concentrations (µg/m$^3$) | Matrix Result |
|---|---|---|---|
| MP-1/IA-1 | ND | ND | No further action |
| MP-2/IA-2 | ND | ND | No further action |
| MP-3/IA-3 | 12 | ND | No further action |
| MP-4/IA-4 | 2.2 | ND | No further action |
| MP-5/IA-5 | 2.4 | ND | No further action |
| Note: ND = Not Detected Above the Reporting Limit | | | |

When comparing the analytical results for TCE, PCE, and carbon tetrachloride in the sub-slab soil vapor samples and the co-located indoor air samples using NYSDOH Soil Vapor/Indoor Air Matrix A (the applicable matrix for TCE and carbon tetrachloride) and NYSDOH Soil Vapor/Indoor Air Matrix B (the applicable matrix for PCE), the matrix indicates a result of “no further action”.

# 7.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF conducted a Soil Vapor Intrusion Evaluation (SVIE) at the Elton Crossing (Melrose C Family) Site located at 432 East 162nd Street (899 Elton Avenue) in the Bronx, New York. The SVIE included: a pre-sampling inspection; chemical inventory; and collection and laboratory analysis of five sub-slab soil vapor samples, five indoor air samples, and one ambient (outdoor) air sample. The SVIE was conducted in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved Vapor Intrusion Assessment Work Plan (VIWP). The results of the SVIE were used to determine whether the sub-slab depressurization system (SSDS), currently operating in a passive state, required activation.

Low level concentrations of volatile organic compounds (VOCs) were detected in the sub-slab soil vapor and indoor air samples. Sub-slab soil vapor and indoor air sample analytical results were compared to the Soil Vapor/Indoor Air Matrices included in the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006, updated May 2017. Decision matrices have only been developed for eight VOCs [1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), carbon tetrachloride, cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, PCE, TCE, and vinyl chloride]. Of the VOCs with established decision matrices, only PCE, TCE, and carbon tetrachloride were detected in the sub-slab soil vapor samples.

When comparing the analytical results for TCE, PCE, and carbon tetrachloride in the sub-slab soil vapor samples and the co-located indoor air samples using NYSDOH Soil Vapor/Indoor Air Matrix A (the applicable matrix for TCE and carbon tetrachloride) and NYSDOH Soil Vapor/Indoor Air Matrix B (the applicable matrix for PCE), the matrix indicates a result of "no further action". As "no further action" is warranted based on the sub-slab soil vapor and indoor air concentrations, AKRF recommends that the SSDS remain in a passive state and respectfully requests NYSDEC and NYSDOH concurrence.

# 8.0 REFERENCES

1. Phase I ESA Report – 432-440 East 162nd Street, 446 East 162nd Street, 448-450 East 162nd Street, 903 Elton Avenue, 901 Elton Avenue, 899 Elton Avenue, 897 Elton Avenue, 433-435 East 161st Street, 429-431 East 161st Street, and 425 East 161st Street (Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, 37, 39, 8900, a section of Melrose Crescent between East 161st and East 162nd Streets, frontage on the north side of East 161st Street, west side of Melrose Crescent and a portion of old Lot 33, and part of unbuilt Melrose Crescent between East 162nd Street and East 161st Street comprising old lots 22, 23, 24, and a portion of old Lot 33 as well as part of former Lots 25, 30, and 31), Bronx, New York, EHI, Inc., February 2011.
2. Inspection for Asbestos Containing Materials (ACM) – 440 East 162nd Street, Bronx, New York, ALC Environmental, Inc., July 2011.
3. Geotechnical Investigation Report – East 161st Street and Elton Avenue, Bronx, New York, Tectonic Engineering and Surveying Consultants, February 2014.
4. Sampling Protocol and Health and Safety Plan (HASP) – Melrose Commons Site C – Family, Tax Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, and 8900, and a section of Melrose Crescent, between East 161st Street and East 162nd Street, AKRF, February 2014.
5. Remedial Investigation (RI) Report – Melrose Commons Site C – Family, Block 2328, Lots 19, 25, 27, 29, 30, 31, 35, 8900, and section of Melrose Crescent between East 161st Street and East 162nd Street, AKRF, April 2014.
6. Brownfield Cleanup Program (BCP) Application – Elton Crossing/Site C – Family, AKRF, August 2014.
7. Citizen Participation Plan (CPP) – Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, December 2014.
8. Supplemental Remedial Investigation Work Plan (SRIWP) – Melrose Commons Site C – Family/ Elton Crossing, Bronx, New York, AKRF, January 2015.
9. Phase I Environmental Site Assessment (ESA), Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, April 2015.
10. Supplemental Remedial Investigation (SRI) Report – Elton Crossing/Site C – Family, AKRF, June 2015.
11. Remedial Action Work Plan (RAWP) and Decision Document (DD) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, June 2015.
12. Soil Waste Characterization Results (Reports 1 and 2) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, July 2015.
13. Brownfield Cleanup Agreement (BCA) Amendment Application – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, October 2016.
14. Final Engineering Report (FER) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016.
15. Site Management Plan (SMP) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016.
16. Periodic Review Report (PRR) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, August 2018.

17. Vapor Intrusion Assessment Work Plan (VIWP) – Elton Crossing (Melrose C Family), 432 East 162nd Street (899 Elton Avenue), Bronx, New York, AKRF, September 2018.
18. Data Usability Summary Report (DUSR) – Data Validation Summary for Sub-Slab, Indoor/Ambient Air Samples Collected November 19, 2018 through November 20, 2018, Elton Crossing, Bronx, New York, L.A.B. Validation Corp., December 22, 2018.
19. NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New Table 3.3 Matrix A, Matrix B, and Matrix C tables of the Final Guidance in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated May 2017.

# TABLES

**Table 1**
**Elton Crossing (Melrose C Family)**
**432 East 162nd Street (899 Elton Avenue), Bronx, NY**
**Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results**

| AKRF Sample ID | NYSDOH Soil Vapor Intrusion Matrix Values | AA-1_20181120 | | IA-1_20181120 | | IA-1_20181120 | | IA-2_20181120 | | IA-3_20181120 | | IA-4_20181120 | | IA-5_20181120 | | IA-5_20181120 | | MP-1_20181120 | | MP-2_20181120 | | MP-3_20181120 | | MP-4_20181120 | | MP-5_20181119 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample ID | | 200-46353-1 | | 200-46353-2 | | 200-46353-2 | | 200-46353-3 | | 200-46353-4 | | 200-46353-5 | | 200-46353-6 | | 200-46353-6 | | 200-46353-7 | | 200-46353-8 | | 200-46353-9 | | 200-46353-10 | | 200-46353-11 | |
| Date Sampled | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | | 11/20/2018 | |
| Unit | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | | µg/m³ | |
| Dilution Factor | µg/m³ | 1 | | 1 | | 10 | | 1 | | 1 | | 1 | | 1 | | 4 | | 50 | | 20 | | 1 | | 1 | | 1 | |
| 1,1,1-Trichloroethane | 1,000 | 1.1 | UJ | 1.1 | U | NA | | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | NA | | 55 | UJ | 22 | U | 1.1 | U | 1.1 | U | 1.1 | U |
| 1,1,2,2-Tetrachloroethane | NS | 1.4 | UJ | 1.4 | U | NA | | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | NA | | 69 | UJ | 27 | U | 1.4 | U | 1.4 | U | 1.4 | U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NS | 1.5 | UJ | 1.5 | U | NA | | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | NA | | 77 | UJ | 31 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| 1,1,2-Trichloroethane | NS | 1.1 | UJ | 1.1 | U | NA | | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | NA | | 55 | UJ | 22 | U | 1.1 | U | 1.1 | U | 1.1 | U |
| 1,1-Dichloroethane | NS | 0.81 | UJ | 0.81 | U | NA | | 0.81 | U | 0.81 | U | 0.81 | U | 0.81 | U | NA | | 40 | UJ | 16 | U | 0.81 | U | 0.81 | U | 0.81 | U |
| 1,1-Dichloroethene | 60 | 0.14 | UJ | 0.14 | U | NA | | 0.14 | U | 0.14 | U | 0.14 | U | 0.14 | U | NA | | 7 | UJ | 2.8 | U | 0.14 | U | 0.14 | U | 0.14 | U |
| 1,2,4-Trichlorobenzene | NS | 3.7 | UJ | 3.7 | U | NA | | 3.7 | U | 3.7 | U | 3.7 | U | 3.7 | U | NA | | 190 | UJ | 74 | U | 3.7 | U | 3.7 | U | 3.7 | U |
| 1,2,4-Trimethylbenzene | NS | 0.98 | UJ | 0.96 | | NA | | 0.98 | U | 0.98 | U | 0.98 | U | 0.98 | U | NA | | 49 | UJ | 20 | U | 2 | | 1.4 | | 0.98 | U |
| 1,2-Dibromoethane (Ethylene Dibromide) | NS | 1.5 | UJ | 1.5 | U | NA | | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | NA | | 77 | UJ | 31 | U | 1.5 | U | 1.5 | U | 1.5 | U |
| 1,2-Dichlorobenzene | NS | 1.2 | UJ | 1.2 | U | NA | | 1.2 | U | 1.2 | U | 1.2 | U | 1.2 | U | NA | | 60 | UJ | 24 | U | 1.2 | U | 1.2 | U | 1.2 | U |
| 1,2-Dichloroethane | NS | 0.81 | UJ | 0.81 | U | NA | | 0.81 | U | 0.81 | U | 0.81 | U | 0.81 | U | NA | | 40 | UJ | 16 | U | 0.81 | U | 0.81 | U | 0.81 | U |
| 1,2-Dichloropropane | NS | 0.92 | UJ | 0.92 | U | NA | | 0.92 | U | 0.92 | U | 0.92 | U | 0.92 | U | NA | | 46 | UJ | 18 | U | 0.92 | U | 0.92 | U | 0.92 | U |
| 1,2-Dichlorotetrafluoroethane | NS | 1.4 | UJ | 1.4 | U | NA | | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | NA | | 70 | UJ | 28 | U | 1.4 | U | 1.4 | U | 1.4 | U |
| 1,3,5-Trimethylbenzene (Mesitylene) | NS | 0.98 | UJ | 0.98 | U | NA | | 0.98 | U | 0.98 | U | 0.98 | U | 0.98 | U | NA | | 49 | UJ | 20 | U | 0.98 | U | 0.98 | U | 0.98 | U |
| 1,3-Butadiene | NS | 0.44 | UJ | 0.44 | U | NA | | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 | U | NA | | 22 | UJ | 8.8 | U | 0.44 | U | 0.44 | U | 0.44 | U |
| 1,3-Dichlorobenzene | NS | 1.2 | UJ | 1.2 | U | NA | | 1.2 | U | 1.2 | U | 1.2 | U | 1.2 | U | NA | | 60 | UJ | 24 | U | 1.2 | U | 1.2 | U | 1.2 | U |
| 1,4-Dichlorobenzene | NS | 1.2 | UJ | 1.2 | U | NA | | 1.2 | U | 1.2 | U | 1.2 | U | 1.2 | U | NA | | 60 | UJ | 24 | U | 1.2 | U | 1.2 | U | 1.2 | U |
| 2,2,4-Trimethylpentane | NS | 0.93 | UJ | 0.93 | U | NA | | 1.5 | | 1 | | 0.93 | | 0.93 | U | NA | | 47 | UJ | 19 | U | 0.93 | U | 1.4 | | 0.93 | U |
| 2-Chlorotoluene | NS | 1 | UJ | 1 | U | NA | | 1 | U | 1 | U | 1 | U | 1 | U | NA | | 52 | UJ | 21 | U | 1 | U | 1 | U | 1 | U |
| 2-Hexanone | NS | 2 | UJ | 2 | U | NA | | 2 | U | 2 | U | 2 | U | 2 | U | NA | | 100 | UJ | 41 | U | 5.5 | | 3.2 | | 2 | U |
| 4-Ethyltoluene | NS | 0.98 | UJ | 0.98 | U | NA | | 0.98 | U | 0.98 | U | 0.98 | U | 0.98 | U | NA | | 49 | UJ | 20 | U | 0.98 | U | 0.98 | U | 0.98 | U |
| Acetone | NS | 16 | J | NA | | 310 | D | 13 | | 22 | | 26 | | | | 290 | D | 590 | UJ | 240 | U | 82 | | 66 | | 41 | |
| Allyl Chloride (3-Chloropropene) | NS | 1.6 | UJ | 1.6 | U | NA | | 1.6 | U | 1.6 | U | 1.6 | U | 1.6 | U | NA | | 78 | UJ | 31 | U | 1.6 | U | 1.6 | U | 1.6 | U |
| Benzene | NS | 1.1 | J | 0.96 | | NA | | 1.2 | | 1 | | 0.97 | | 0.98 | | NA | | 32 | UJ | 13 | U | 0.76 | | 1.5 | | 1.3 | |
| Benzyl Chloride | NS | 1 | UJ | 1 | U | NA | | 1 | U | 1 | U | 1 | U | 1 | U | NA | | 52 | UJ | 21 | U | 1 | U | 1 | U | 1 | U |
| Bromodichloromethane | NS | 1.3 | UJ | 1.3 | U | NA | | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | NA | | 67 | UJ | 27 | U | 1.3 | U | 1.3 | U | 1.3 | U |
| Bromoform | NS | 2.1 | UJ | 2.1 | U | NA | | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | NA | | 100 | UJ | 41 | U | 2.1 | U | 2.1 | U | 2.1 | U |
| Bromomethane | NS | 0.78 | UJ | 0.78 | U | NA | | 0.78 | U | 0.78 | U | 0.78 | U | 0.78 | U | NA | | 39 | UJ | 16 | U | 0.78 | U | 0.78 | U | 0.78 | U |
| Carbon Disulfide | NS | 1.6 | UJ | 1.6 | U | NA | | 1.6 | U | 1.6 | U | 1.6 | U | 1.6 | U | NA | | 78 | UJ | 31 | U | 1.6 | U | 3.7 | | 7.5 | |
| Carbon Tetrachloride | 60 | 0.23 | J | 0.37 | | NA | | 0.44 | | 0.34 | | 0.29 | | 0.39 | | NA | | 11 | UJ | 4.4 | U | 0.33 | | 0.5 | | 0.59 | |
| Chlorobenzene | NS | 0.92 | UJ | 0.92 | U | NA | | 0.92 | U | 0.92 | U | 0.92 | U | 0.92 | U | NA | | 46 | UJ | 18 | U | 0.92 | U | 0.92 | U | 0.92 | U |
| Chloroethane | NS | 1.3 | UJ | 1.3 | U | NA | | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | NA | | 66 | UJ | 26 | U | 1.3 | U | 1.3 | U | 1.3 | U |
| Chloroform | NS | 0.98 | UJ | 3.9 | | NA | | 0.98 | U | 0.98 | U | 0.98 | U | 0.98 | U | NA | | 300 | J | 20 | U | 4.8 | | 0.98 | U | 1 | |
| Chloromethane | NS | 1.1 | J | 1.1 | | NA | | 1.1 | | 1.4 | | 11 | | 1.3 | | NA | | 52 | UJ | 21 | U | 1.3 | | 1.1 | | 2.3 | |
| Cis-1,2-Dichloroethylene | 60 | 0.2 | UJ | 0.2 | U | NA | | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | NA | | 10 | UJ | 4 | U | 0.2 | U | 0.2 | U | 0.2 | U |
| Cis-1,3-Dichloropropene | NS | 0.91 | UJ | 0.91 | U | NA | | 0.91 | U | 0.91 | U | 0.91 | U | 0.91 | U | NA | | 45 | UJ | 18 | U | 0.91 | U | 0.91 | U | 0.91 | U |
| Cyclohexane | NS | 0.87 | J | 0.76 | | NA | | 1 | | 1.2 | | 0.95 | | 1.3 | | NA | | 34 | UJ | 14 | U | 2.7 | | 1.8 | | 1.1 | |
| Cymene | NS | 1.1 | UJ | 1.1 | U | NA | | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | NA | | 55 | UJ | 22 | U | 1.1 | U | 1.1 | U | 1.1 | U |
| Dibromochloromethane | NS | 1.7 | UJ | 1.7 | U | NA | | 1.7 | U | 1.7 | U | 1.7 | U | 1.7 | U | NA | | 85 | UJ | 34 | U | 1.7 | U | 1.7 | U | 1.7 | U |
| Dichlorodifluoromethane | NS | 2.9 | J | 2.6 | | NA | | 2.9 | | 2.5 | | 2.5 | | 2.5 | | NA | | 120 | UJ | 49 | U | 4.3 | | 2.9 | | 3.1 | |
| Ethylbenzene | NS | 0.87 | UJ | 8.7 | | NA | | 0.87 | U | 0.86 | | 0.87 | U | 5.5 | | NA | | 43 | UJ | 17 | U | 1.6 | | 1.2 | | 1.5 | |
| Hexachlorobutadiene | NS | 2.1 | UJ | 2.1 | U | NA | | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | NA | | 110 | UJ | 43 | U | 2.1 | U | 2.1 | U | 2.1 | U |
| Isopropanol | NS | 12 | UJ | 12 | U | NA | | 12 | U | 12 | U | 12 | U | 12 | U | NA | | 610 | UJ | 250 | U | 12 | U | 12 | U | 12 | U |
| Isopropylbenzene (Cumene) | NS | 0.98 | UJ | 0.98 | U | NA | | 0.98 | U | 0.98 | U | 0.98 | U | 0.98 | U | NA | | 49 | UJ | 20 | U | 0.98 | U | 0.98 | U | 0.98 | U |
| M,P-Xylenes | NS | 2.2 | UJ | 46 | | NA | | 2.2 | U | 3 | | 2.2 | U | 26 | | NA | | 110 | UJ | 43 | U | 5 | | 4.2 | | 3.3 | |
| Methyl Ethyl Ketone (2-Butanone) | NS | 2.4 | J | 2.7 | | NA | | 6.2 | | 5.2 | | 4 | | 10 | | NA | | 74 | UJ | 29 | U | 4.6 | | 7.5 | | 20 | |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone | NS | 2 | UJ | 2 | U | NA | | 2 | U | 2 | U | 2 | U | 2.4 | | NA | | 100 | UJ | 41 | U | 2 | U | 2 | U | 3.5 | |
| Methylene Chloride | 1,000 | 1.7 | UJ | 1.7 | U | NA | | 1.7 | U | 1.7 | U | 1.7 | U | 1.7 | U | NA | | 87 | UJ | 35 | U | 1.7 | U | 1.7 | U | 1.7 | U |
| Naphthalene | NS | 2.6 | UJ | 2.6 | U | NA | | 2.6 | U | 2.6 | U | 2.6 | U | 2.6 | U | NA | | 130 | UJ | 52 | U | 2.6 | U | 2.6 | U | 2.6 | U |
| N-Butylbenzene | NS | 1.1 | UJ | 1.1 | U | NA | | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | NA | | 55 | UJ | 22 | U | 1.1 | U | 1.1 | U | 1.1 | U |
| N-Heptane | NS | 0.84 | J | 0.82 | U | NA | | 0.82 | U | 0.82 | | 0.87 | | 0.83 | | NA | | 41 | UJ | 17 | | 18 | | 6.8 | | 2.5 | |
| N-Hexane | NS | 0.93 | J | 0.81 | | NA | | 1.5 | | 1.7 | | 2.7 | | 1.3 | | NA | | 35 | UJ | 14 | U | 3.5 | | 3.6 | | 1.5 | |
| N-Propylbenzene | NS | 0.98 | UJ | 0.98 | U | NA | | 0.98 | U | 0.98 | U | 0.98 | U | 0.98 | U | NA | | 49 | UJ | 20 | U | 0.98 | U | 0.98 | U | 0.98 | U |
| O-Xylene (1,2-Dimethylbenzene) | NS | 0.87 | UJ | 16 | | NA | | 0.87 | U | 1.2 | | 0.87 | U | 9.3 | | NA | | 43 | UJ | 17 | U | 2 | | 1.8 | | 0.94 | |
| Sec-Butylbenzene | NS | 1.1 | UJ | 1.1 | U | NA | | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | NA | | 55 | UJ | 22 | U | 1.1 | U | 1.1 | U | 1.1 | U |
| Styrene | NS | 0.85 | UJ | 1 | | NA | | 0.85 | U | 0.85 | U | 0.85 | U | 0.85 | U | NA | | 43 | UJ | 17 | U | 0.85 | U | 0.85 | U | 0.85 | U |
| T-Butylbenzene | NS | 1.1 | UJ | 1.1 | U | NA | | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | NA | | 55 | UJ | 22 | U | 1.1 | U | 1.1 | U | 1.1 | U |
| Tert-Butyl Alcohol | NS | 15 | UJ | 15 | U | NA | | 15 | U | 15 | U | 15 | U | 15 | U | NA | | 760 | UJ | 300 | U | 15 | U | 15 | U | 15 | U |
| Tert-Butyl Methyl Ether | NS | 0.72 | UJ | 0.72 | U | NA | | 0.72 | U | 0.72 | U | 0.72 | U | 0.72 | U | NA | | 36 | UJ | 14 | U | 0.72 | U | 0.72 | U | 0.72 | U |
| Tetrachloroethylene (PCE) | 1,000 | 1.4 | UJ | 1.4 | U | NA | | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | NA | | 68 | UJ | 27 | U | 12 | | 2.2 | | 2.4 | |
| Tetrahydrofuran | NS | 15 | UJ | 15 | U | NA | | 15 | U | 15 | U | 15 | U | 15 | U | NA | | 740 | UJ | 290 | U | 15 | U | 15 | U | 15 | U |
| Toluene | NS | 3 | J | 2.8 | | NA | | 3.5 | | 3.4 | | 3.5 | | 3 | | NA | | 38 | UJ | 15 | U | 14 | | 8.2 | | 4.3 | |
| Trans-1,2-Dichloroethene | NS | 0.79 | UJ | 0.79 | U | NA | | 0.79 | U | 0.79 | U | 0.79 | U | 0.79 | U | NA | | 40 | UJ | 16 | U | 0.79 | U | 0.79 | U | 0.79 | U |
| Trans-1,3-Dichloropropene | NS | 0.91 | UJ | 0.91 | U | NA | | 0.91 | U | 0.91 | U | 0.91 | U | 0.91 | U | NA | | 45 | UJ | 18 | U | 0.91 | U | 0.91 | U | 0.91 | U |
| Trichloroethylene (TCE) | 60 | 0.19 | UJ | 0.19 | U | NA | | 0.19 | U | 0.19 | U | 0.19 | U | 0.19 | U | NA | | 9.4 | UJ | 3.8 | U | 1.2 | | 0.19 | U | 0.19 | U |
| Trichlorofluoromethane | NS | 1.4 | J | 1.2 | | NA | | 1.5 | | 1.2 | | 1.2 | | 1.3 | | NA | | 56 | UJ | 22 | U | 14 | | 1.7 | | 2.2 | |
| Vinyl Bromide | NS | 0.87 | UJ | 0.87 | U | NA | | 0.87 | U | 0.87 | U | 0.87 | U | 0.87 | U | NA | | 44 | UJ | 17 | U | 0.87 | U | 0.87 | U | 0.87 | U |
| Vinyl Chloride | 60 | 0.2 | UJ | 0.2 | U | NA | | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | NA | | 10 | UJ | 4 | U | 0.2 | U | 0.2 | U | 0.2 | U |

**Table 1**
**Elton Crossing (Melrose C Family)**
**432 East 162nd Street (899 Elton Avenue), Bronx, NY**
**Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results**

**GENERAL**

**NS :** A standard has not been established for the analyte.

**ND :** The sample was not detected above the laboratory reporting limit.

**NA :** Not applicable.

**U :** The analyte was not detected above laboratory reporting limits.

**J :** The analyte was detected at a concentration above the laboratory reporting limit; the reported concentration is approximate and may be inaccurate or imprecise.

**D :** The reported concentration is the result of a diluted analysis.

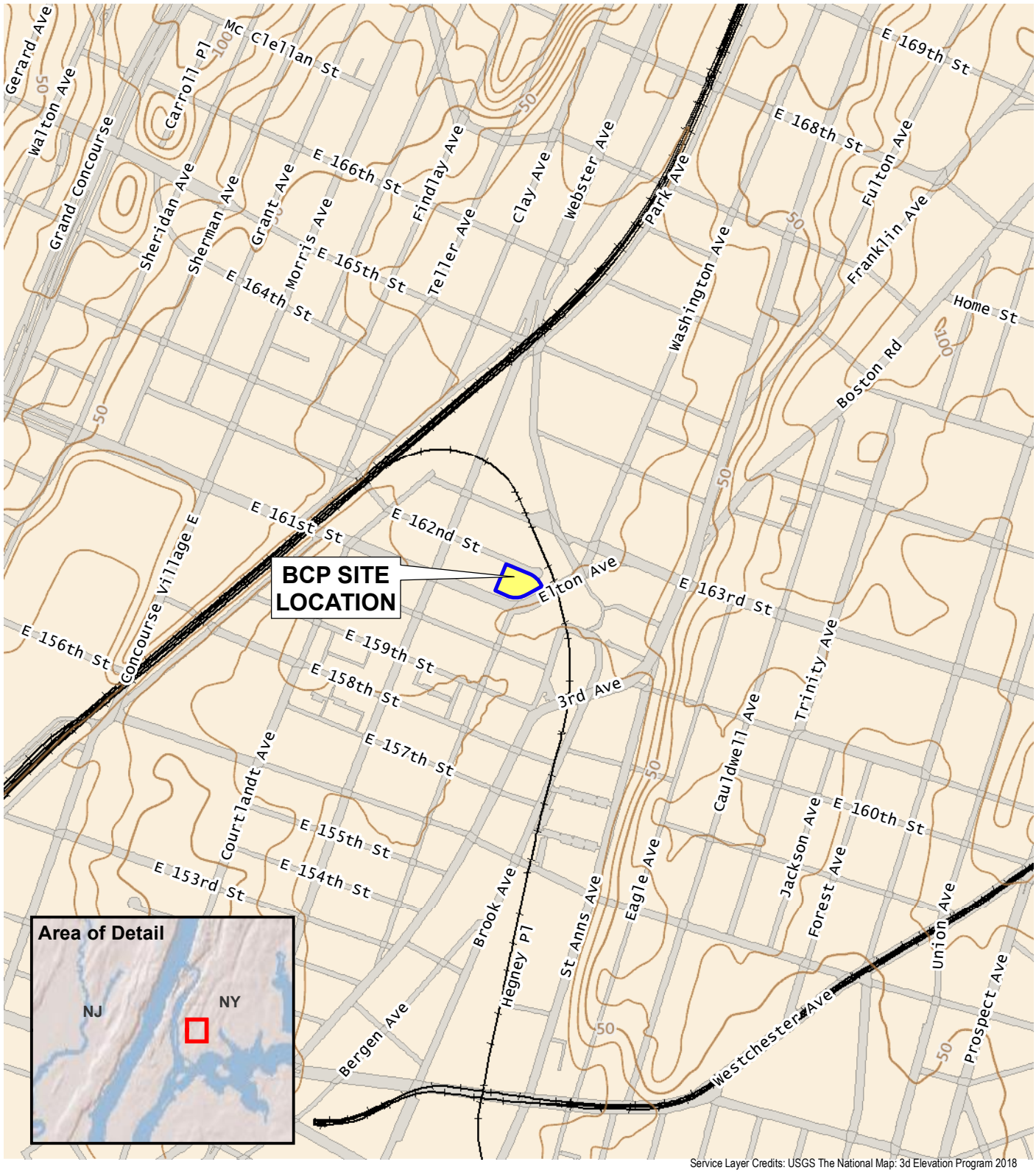
**SOIL VAPOR**

**NYSDOH Soil Vapor Intrusion Matrix Values :** NYSDOH Sub-Slab Vapor Concentration which may require monitoring or mitigation as presented in the Matrix A, Matrix B, and Matrix C tables of the Final Guidance in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated May 2017.

**$\mu g/m^3$ :** micrograms per cubic meter

**Exceedances of NYSDOH Soil Vapor Intrusion Matrix Values, if found, are highlighted in bold font.**

# FIGURES




Service Layer Credits: USGS The National Map: 3d Elevation Program 2018

©2018 AKRF M:\AKRF Project Files\11901 Melrose Commons Site C - Family\GIS\11901 Fig 1 BCP site loc map.mxd 12/18/2018 9:23:28 AM jszalus

AKRF

440 Park Avenue South, New York, NY 10016

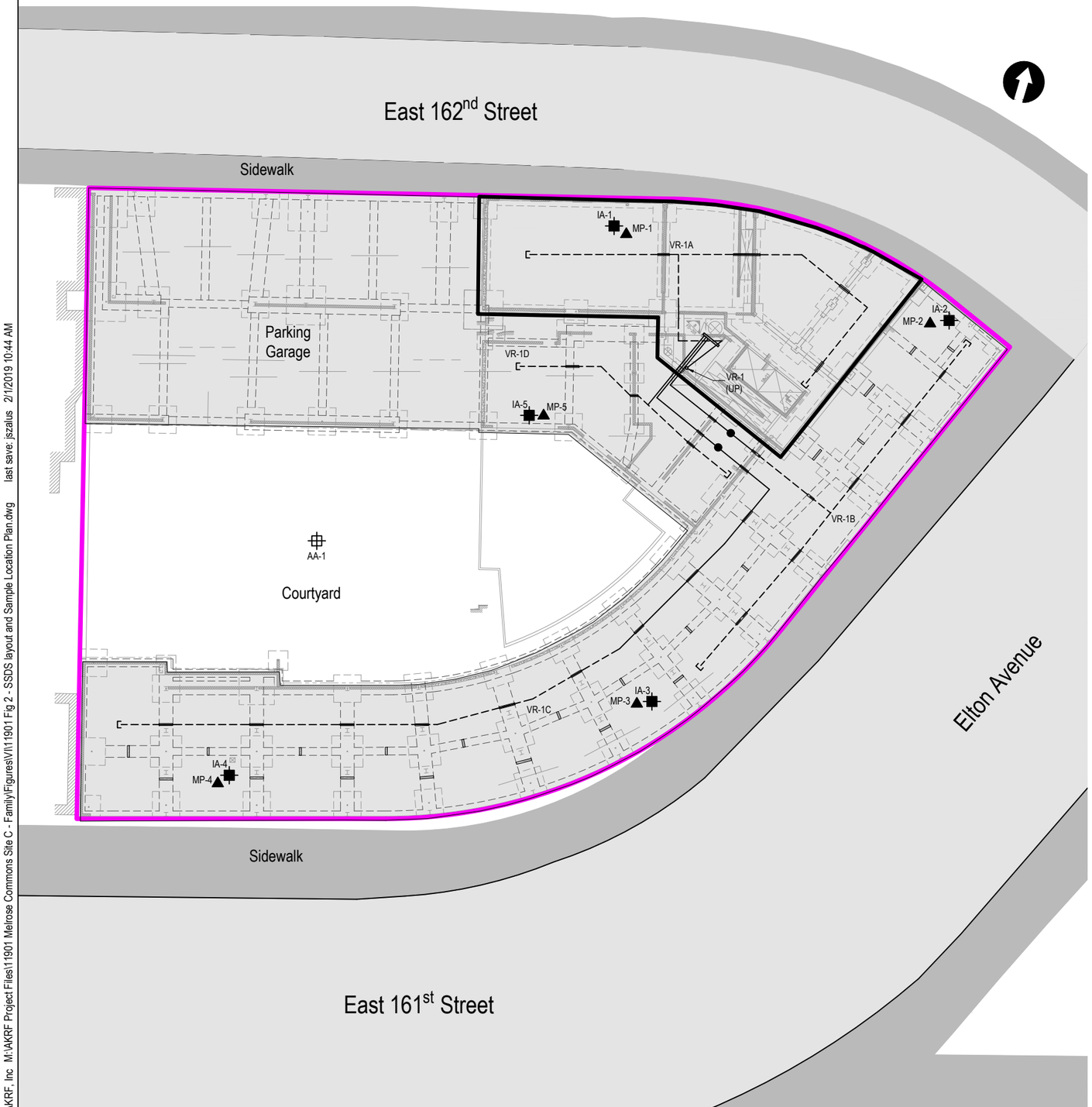
**Elton Crossing (Melrose C Family)**
**432 East 162nd Street (899 Elton Avenue)**
Bronx, New York

**BCP SITE LOCATION**

DATE
**12/18/2018**

PROJECT NO.
**11901**

FIGURE
**1**




## LEGEND

- BCP SITE BOUNDARY
- LATERAL EXTENT OF GAS VAPOR BARRIER AND 6-INCH TO 4-FOOT THICK GAS PERMEABLE AGGREGATE
- VR-1 — VERTICAL RISER AND IDENTIFICATION NUMBER EXTENDING TO ROOF WITH EXHAUST STACK
- 4-INCH DIAMETER SCHEDULE 40 0.02-INCH SLOTTED PVC PIPE BENEATH FLOOR SLAB WITH END CAP
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC PIPE BENEATH FLOOR SLAB
- MANIFOLD
- EXTENT OF PARTIAL CELLAR
- PIPE SLEEVE
- COMMUNICATION SLEEVE
- CONDENSATE DRAIN
- CONCRETE FOUNDATION ELEMENT
- MP-1 — MONITORING POINT/SOIL VAPOR SAMPLE LOCATION
- IA-1 — INDOOR AIR SAMPLE LOCATION
- AA-1 — AMBIENT AIR SAMPLE LOCATION

0 15 30 60

SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

**Elton Crossing (Melrose C Family)**
**432 East 162nd Street (899 Elton Avenue)**
Bronx, New York

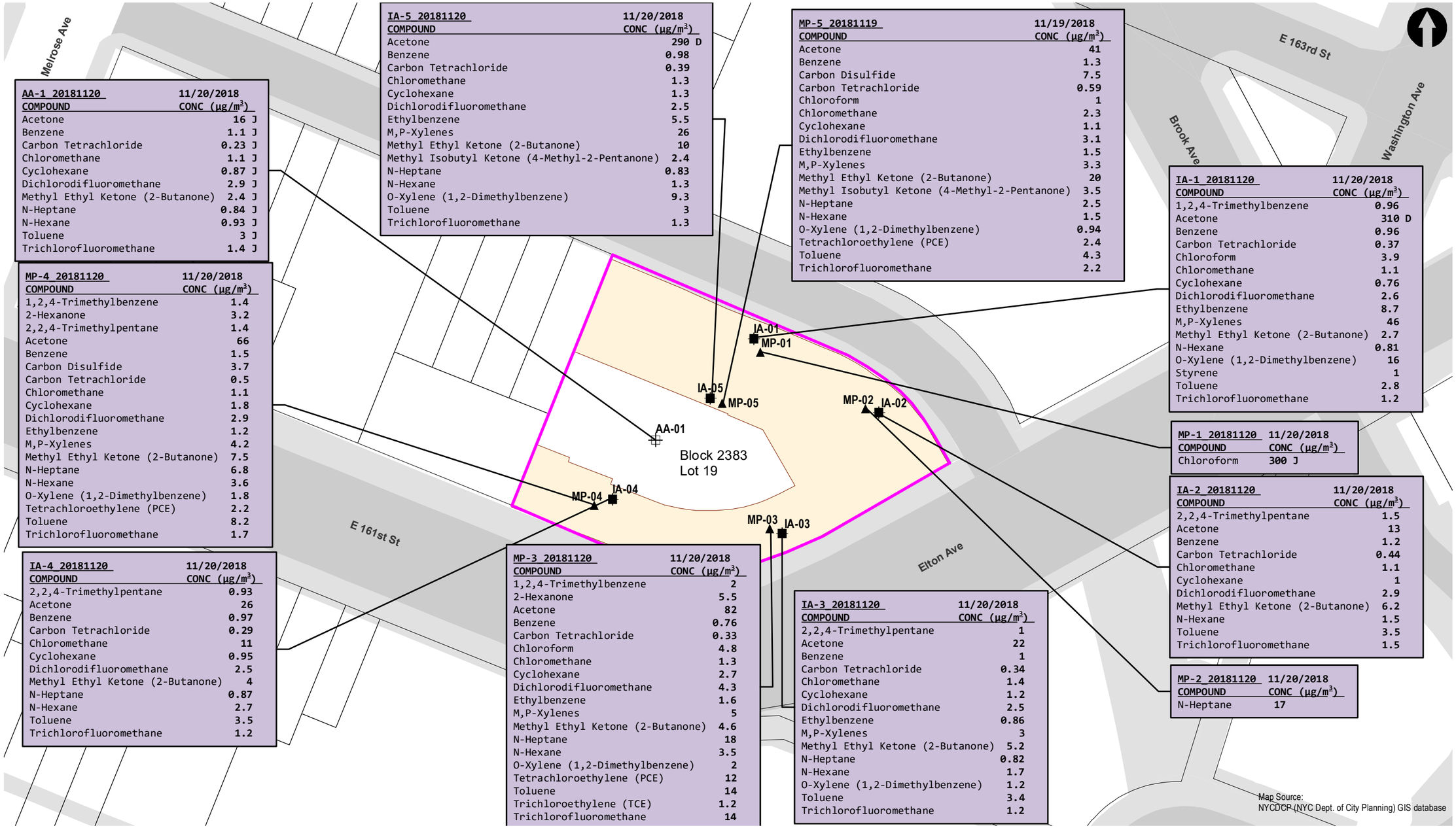
# SSDS LAYOUT AND SAMPLE LOCATION PLAN

DATE
**2/1/2019**

PROJECT NO.
**11901**

FIGURE
**2**

©2019 AKRF, Inc M:\AKRF Project Files\11901 Melrose Commons Site C - Family\Figures\VI\11901 Fig 2 - SSDS layout and Sample Location Plan.dwg last save: jszalus 2/1/2019 10:44 AM




**AA-1 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| Acetone | 16 J |
| Benzene | 1.1 J |
| Carbon Tetrachloride | 0.23 J |
| Chloromethane | 1.1 J |
| Cyclohexane | 0.87 J |
| Dichlorodifluoromethane | 2.9 J |
| Methyl Ethyl Ketone (2-Butanone) | 2.4 J |
| N-Heptane | 0.84 J |
| N-Hexane | 0.93 J |
| Toluene | 3 J |
| Trichlorofluoromethane | 1.4 J |

**MP-4 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| 1,2,4-Trimethylbenzene | 1.4 |
| 2-Hexanone | 3.2 |
| 2,2,4-Trimethylpentane | 1.4 |
| Acetone | 66 |
| Benzene | 1.5 |
| Carbon Disulfide | 3.7 |
| Carbon Tetrachloride | 0.5 |
| Chloromethane | 1.1 |
| Cyclohexane | 1.8 |
| Dichlorodifluoromethane | 2.9 |
| Ethylbenzene | 1.2 |
| M,P-Xylenes | 4.2 |
| Methyl Ethyl Ketone (2-Butanone) | 7.5 |
| N-Heptane | 6.8 |
| N-Hexane | 3.6 |
| O-Xylene (1,2-Dimethylbenzene) | 1.8 |
| Tetrachloroethylene (PCE) | 2.2 |
| Toluene | 8.2 |
| Trichlorofluoromethane | 1.7 |

**IA-4 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| 2,2,4-Trimethylpentane | 0.93 |
| Acetone | 26 |
| Benzene | 0.97 |
| Carbon Tetrachloride | 0.29 |
| Chloromethane | 11 |
| Cyclohexane | 0.95 |
| Dichlorodifluoromethane | 2.5 |
| Methyl Ethyl Ketone (2-Butanone) | 4 |
| N-Heptane | 0.87 |
| N-Hexane | 2.7 |
| Toluene | 3.5 |
| Trichlorofluoromethane | 1.2 |

**IA-5 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| Acetone | 290 D |
| Benzene | 0.98 |
| Carbon Tetrachloride | 0.39 |
| Chloromethane | 1.3 |
| Cyclohexane | 1.3 |
| Dichlorodifluoromethane | 2.5 |
| Ethylbenzene | 5.5 |
| M,P-Xylenes | 26 |
| Methyl Ethyl Ketone (2-Butanone) | 10 |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 2.4 |
| N-Heptane | 0.83 |
| N-Hexane | 1.3 |
| O-Xylene (1,2-Dimethylbenzene) | 9.3 |
| Toluene | 3 |
| Trichlorofluoromethane | 1.3 |

**MP-3 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| 1,2,4-Trimethylbenzene | 2 |
| 2-Hexanone | 5.5 |
| Acetone | 82 |
| Benzene | 0.76 |
| Carbon Tetrachloride | 0.33 |
| Chloroform | 4.8 |
| Chloromethane | 1.3 |
| Cyclohexane | 2.7 |
| Dichlorodifluoromethane | 4.3 |
| Ethylbenzene | 1.6 |
| M,P-Xylenes | 5 |
| Methyl Ethyl Ketone (2-Butanone) | 4.6 |
| N-Heptane | 18 |
| N-Hexane | 3.5 |
| O-Xylene (1,2-Dimethylbenzene) | 2 |
| Tetrachloroethylene (PCE) | 12 |
| Toluene | 14 |
| Trichloroethylene (TCE) | 1.2 |
| Trichlorofluoromethane | 14 |

**MP-5 20181119** — 11/19/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| Acetone | 41 |
| Benzene | 1.3 |
| Carbon Disulfide | 7.5 |
| Carbon Tetrachloride | 0.59 |
| Chloroform | 1 |
| Chloromethane | 2.3 |
| Cyclohexane | 1.1 |
| Dichlorodifluoromethane | 3.1 |
| Ethylbenzene | 1.5 |
| M,P-Xylenes | 3.3 |
| Methyl Ethyl Ketone (2-Butanone) | 20 |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 3.5 |
| N-Heptane | 2.5 |
| N-Hexane | 1.5 |
| O-Xylene (1,2-Dimethylbenzene) | 0.94 |
| Tetrachloroethylene (PCE) | 2.4 |
| Toluene | 4.3 |
| Trichlorofluoromethane | 2.2 |

**IA-3 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| 2,2,4-Trimethylpentane | 1 |
| Acetone | 22 |
| Benzene | 1 |
| Carbon Tetrachloride | 0.34 |
| Chloromethane | 1.4 |
| Cyclohexane | 1.2 |
| Dichlorodifluoromethane | 2.5 |
| Ethylbenzene | 0.86 |
| M,P-Xylenes | 3 |
| Methyl Ethyl Ketone (2-Butanone) | 5.2 |
| N-Heptane | 0.82 |
| N-Hexane | 1.7 |
| O-Xylene (1,2-Dimethylbenzene) | 1.2 |
| Toluene | 3.4 |
| Trichlorofluoromethane | 1.2 |

**IA-1 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| 1,2,4-Trimethylbenzene | 0.96 |
| Acetone | 310 D |
| Benzene | 0.96 |
| Carbon Tetrachloride | 0.37 |
| Chloroform | 3.9 |
| Chloromethane | 1.1 |
| Cyclohexane | 0.76 |
| Dichlorodifluoromethane | 2.6 |
| Ethylbenzene | 8.7 |
| M,P-Xylenes | 46 |
| Methyl Ethyl Ketone (2-Butanone) | 2.7 |
| N-Hexane | 0.81 |
| O-Xylene (1,2-Dimethylbenzene) | 16 |
| Styrene | 1 |
| Toluene | 2.8 |
| Trichlorofluoromethane | 1.2 |

**MP-1 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| Chloroform | 300 J |

**IA-2 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| 2,2,4-Trimethylpentane | 1.5 |
| Acetone | 13 |
| Benzene | 1.2 |
| Carbon Tetrachloride | 0.44 |
| Chloromethane | 1.1 |
| Cyclohexane | 1 |
| Dichlorodifluoromethane | 2.9 |
| Methyl Ethyl Ketone (2-Butanone) | 6.2 |
| N-Hexane | 1.5 |
| Toluene | 3.5 |
| Trichlorofluoromethane | 1.5 |

**MP-2 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| N-Heptane | 17 |

**LEGEND**

- BCP SITE BOUNDARY
- INDOOR AIR SAMPLE LOCATION
- AMBIENT AIR SAMPLE LOCATION
- MONITORING POINT/SOIL VAPOR SAMPLE LOCATION
- BUILDING OUTLINE
- LOT BOUNDARY

0 35 70 140

SCALE IN FEET

µg/m³- micrograms per cubic meter

J : The analyte was detected at a concentration above the laboratory reporting limit; the reported concentration is approximate and may be inaccurate or imprecise.
D : The reported concentration is the result of a diluted analysis.

Sample ID — Sample Date — Concentration in Soil Vapor

Compound in Soil Vapor

**IA-5 20181120** — 11/20/2018

| COMPOUND | CONC (µg/m³) |
|---|---|
| Ethylbenzene | 5.5 |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 2.4 |
| Toluene | 3 |
| N-Hexane | 1.3 |

©2019 AKRF W:\Projects\11901 - MELROSE SITE C FAMILY ELTONCROSSING\Technical\GIS and Graphics\Hazmat\SoilVaporDetections_11x17.mxd 1/31/2019 2:09:55 PM dcolombini

AKRF
440 Park Avenue South, New York, NY 10016

Elton Crossing (Melrose C Family)
432 East 162nd Street (899 Elton Avenue)
Bronx, New York

Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Sample Detections

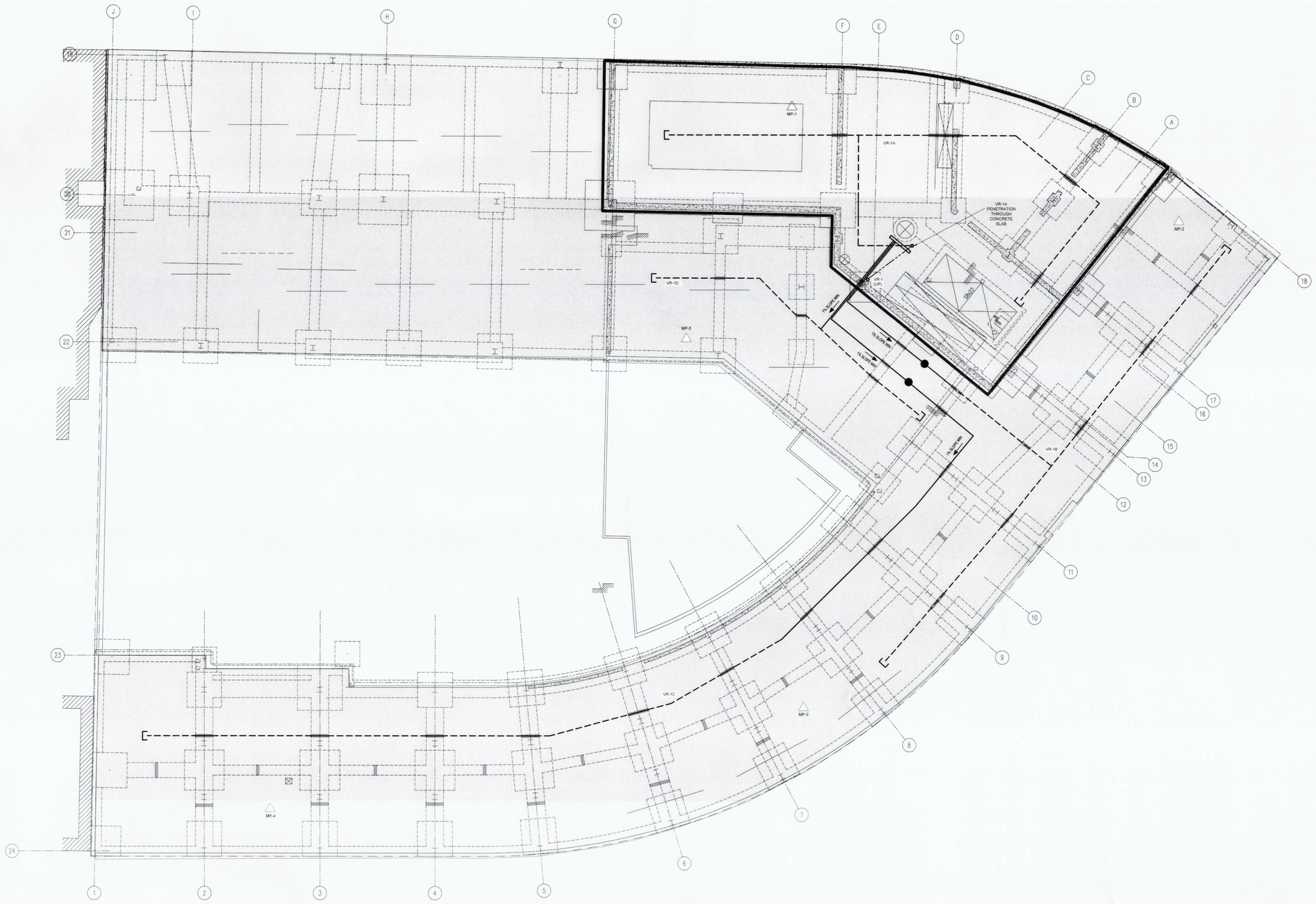
DATE 1/31/2019

PROJECT NO. 11901

FIGURE 3

# APPENDIX A

## SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) AS-BUILT DRAWINGS




## LEGEND

- LATERAL EXTENT OF GAS VAPOR BARRIER AND 6-INCH TO 4-FOOT THICK GAS PERMEABLE AGGREGATE (SEE DETAILS ON DRAWING ENV-101)
- VR-1 — VERTICAL RISER AND IDENTIFICATION NUMBER EXTENDING TO ROOF WITH EXHAUST STACK (SEE DETAIL 2 ON ENV-103)
- 4-INCH DIAMETER SCHEDULE 40 0.02-INCH SLOTTED PVC SSDS PIPE BENEATH FLOOR SLAB WITH END CAP (SEE DETAILS 2 AND 7 ON DRAWING ENV-101)
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC SSDS PIPE BENEATH FLOOR SLAB
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC SSDS PIPE ABOVE FLOOR SLAB
- MANIFOLD
- EXTENT OF PARTIAL CELLAR
- MP-1 — MONITORING POINT (SEE DETAIL 4 ON DRAWING ENV-101)
- PIPE SLEEVE (SEE DETAIL 9 ON DRAWING ENV-101)
- COMMUNICATION SLEEVE (SEE DETAIL 11 ON DRAWING ENV-101)
- CONDENSATE DRAIN (SEE DETAIL 5 ON ENV-101)
- CONCRETE FOUNDATION ELEMENT

## NOTE

1. SOLID HORIZONTAL 4-INCH SCHEDULE 40 PVC PIPE SLOPED MINIMUM 1% UNIFORMLY TOWARDS THE SSDS SLOTTED PIPING OR CONDENSATE DRAIN.

0 10 20
SCALE: 1" = 10'


**OWNER**

ELTON CROSSING HOUSING DEVELOPMENT FUND CORP.
902 BROADWAY, 13TH FLOOR
NEW YORK, NY 10010

**ENVIRONMENTAL ENGINEER**

AKRF
440 PARK AVENUE SOUTH
NEW YORK, NY 10016
(212) 696-0670 (PHONE)
(212) 726-0942 (FAX)


STATE OF NEW YORK · MICHELLE LAPIN · 071939 · LICENSED PROFESSIONAL ENGINEER

MICHELLE LAPIN , P.E.

REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | 05/04/2015 | DEC SUBMISSION |
| | 06/12/2015 | DEC REVISIONS |
| | 06/24/2015 | DESIGN REVISIONS |
| | 07/16/2015 | 100% CD |
| | 10/07/2016 | AS BUILT EDITS |
| | 05/22/2018 | AS BUILT EDITS |
| | 08/06/2018 | 2018 PRR |

PROJECT

ELTON CROSSING
(MELROSE C FAMILY)
BRONX, NEW YORK

| DRAWN BY | CHECKED BY |
|---|---|
| MRV | ML |
| SCALE | DATE |
| AS NOTED | 05/22/18 |

SHEET TITLE

UNDERGROUND SUB-SLAB DEPRESSURIZATION LAYOUT

SHEET NO.

ENV-100

SHEET 1 OF 4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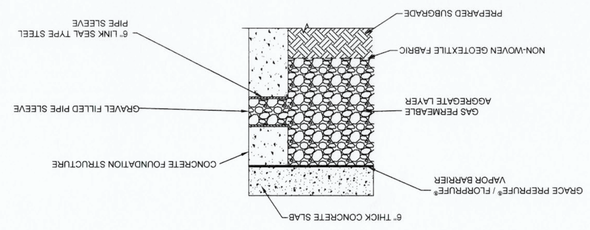
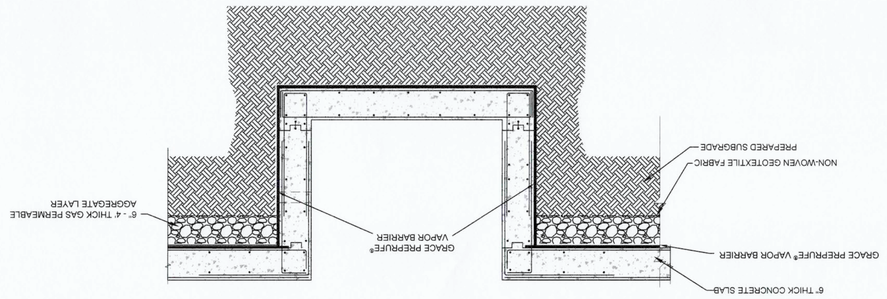
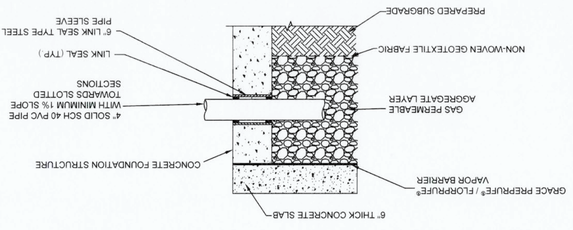



TYPICAL GRAVEL FILLED COMMUNICATION SLEEVE THROUGH FOUNDATION ELEMENT
N.T.S. (11)



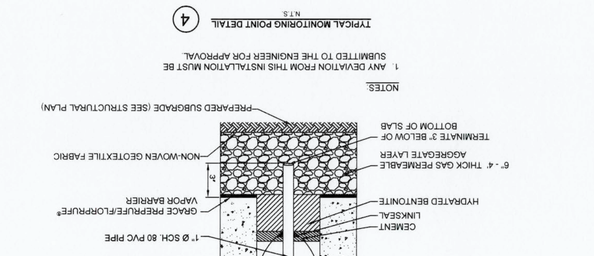

VAPOR BARRIER DETAIL AT TYPICAL ELEVATOR / SUMP PIT / UTILITY PIT, ETC.
N.T.S. (10)



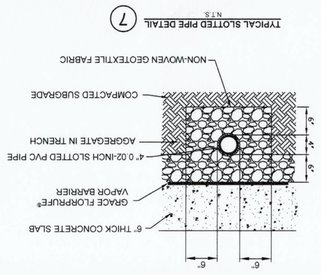

TYPICAL PIPE SLEEVE THROUGH FOUNDATION ELEMENT
N.T.S. (9)

## NOTE

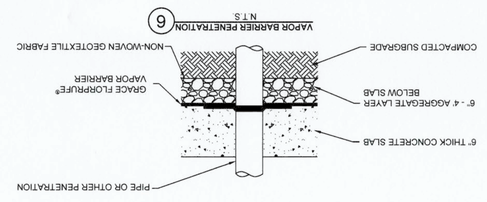
1. SOLID HORIZONTAL 4-INCH SCHEDULE 40 PVC PIPE SLOPED MINIMUM 1% UNIFORMLY TOWARDS THE SSDS SLOTTED PIPING OR CONDENSATE DRAIN.



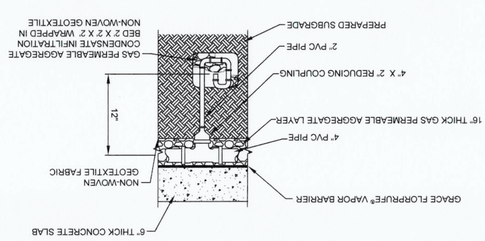

VAPOR BARRIER DETAIL FOR TYPICAL INTERIOR FOOTER WITH COLUMN
N.T.S. (8)



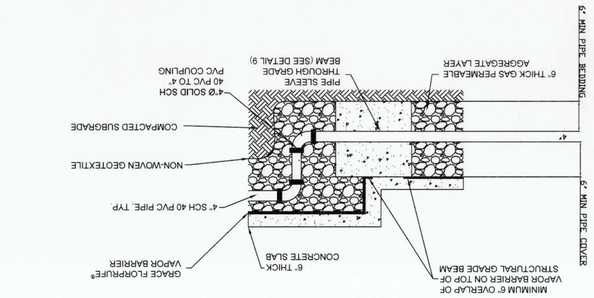

TYPICAL SLOTTED PIPE DETAIL
N.T.S. (7)




VAPOR BARRIER PENETRATION
N.T.S. (6)




TYPICAL LOW POINT CONDENSATE DRAIN DETAIL
N.T.S. (5)

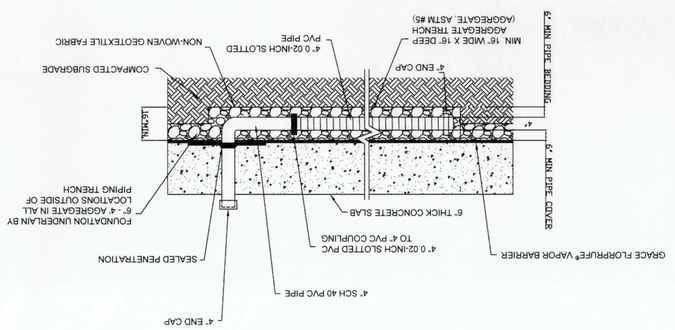



TYPICAL MONITORING POINT DETAIL
N.T.S. (4)

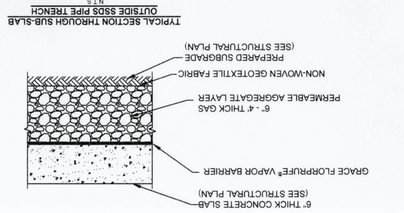
NOTES:
1. ANY DEVIATION FROM THIS INSTALLATION MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL




TYPICAL PROFILE AT ELEVATION CHANGE THROUGH GRADE BEAM
N.T.S. (3)




TYPICAL SSDS PIPING PROFILE
N.T.S. (2)




TYPICAL SECTION THROUGH SUB-SLAB OUTSIDE SSDS PIPE TRENCH
N.T.S. (1)

**OWNER**

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MICHELLE LAPIN, P.E.

REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 05/04/2015 | DEC SUBMISSION |
| | 06/12/2015 | DEC REVISIONS |
| | 06/24/2015 | DESIGN REVISIONS |
| | 07/16/2015 | 100% CD |
| | 10/07/2016 | AS BUILT EDITS |
| | 05/22/2018 | AS BUILT EDITS |
| | 08/06/2018 | 2018 PRR |

PROJECT

ELTON CROSSING
(MELROSE C FAMILY)
BRONX, NEW YORK

| DRAWN BY | CHECKED BY |
|---|---|
| MRV | ML |

| SCALE | DATE |
|---|---|
| AS NOTED | 05/22/18 |

SHEET TITLE

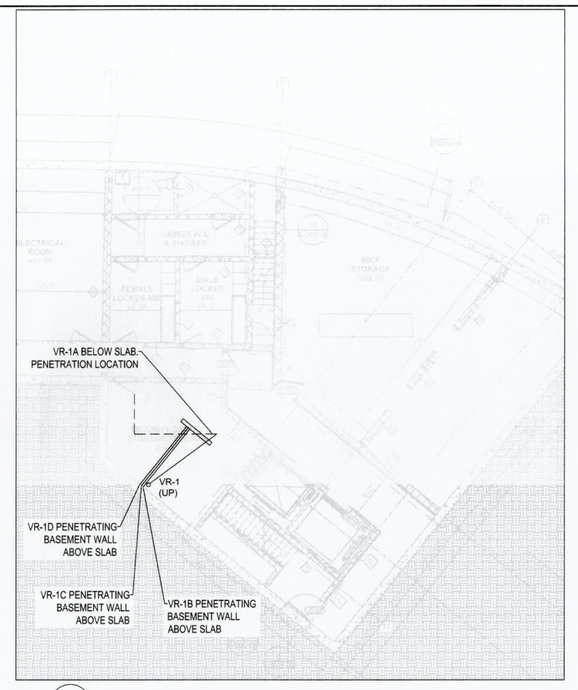
UNDERGROUND
SUB-SLAB
DEPRESSURIZATION
LAYOUT

SHEET NO.

ENV-101

SHEET 2 OF 4

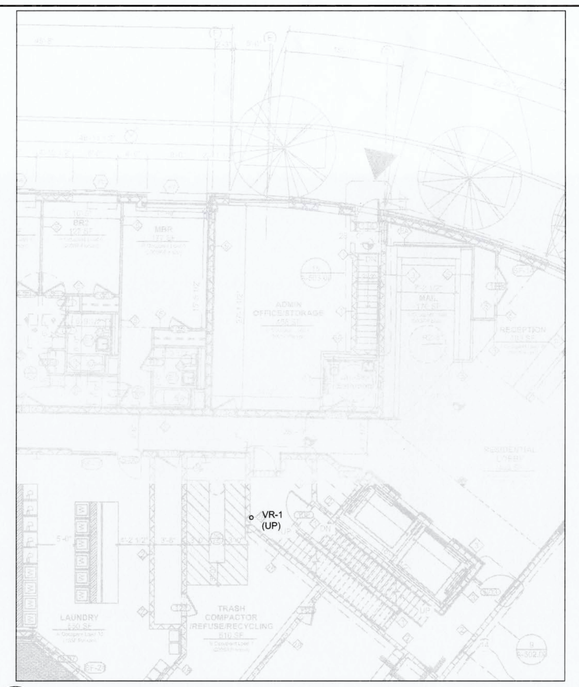
Autodesk Docs://ENV-101 Elton Crossing Melrose Phase C - Shell - Central/ENV-101 Elton Crossing Melrose Phase C - Shell - Central.rvt 5/7/2019 1:14:49 PM




1. VR-1 CELLAR HEADER AND RISER LOCATION PLAN

A-100 USED AS BACKGROUND

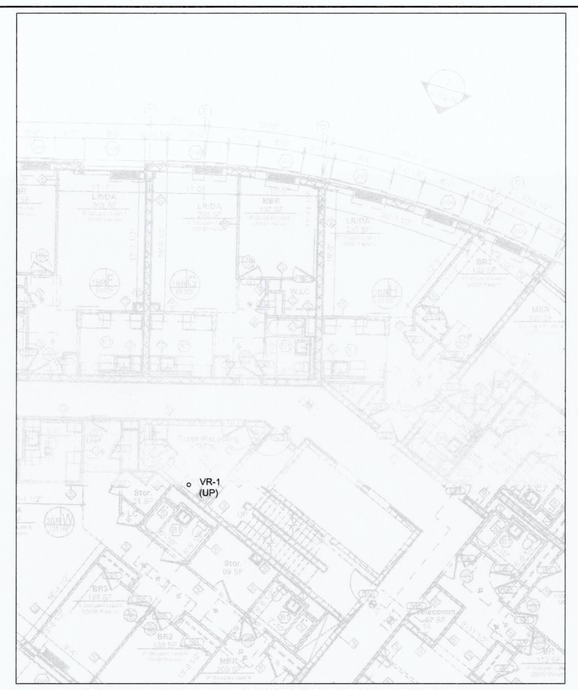
0 10' 20'




2. VR-1 FIRST FLOOR RISER LOCATION PLAN

A-100 USED AS BACKGROUND

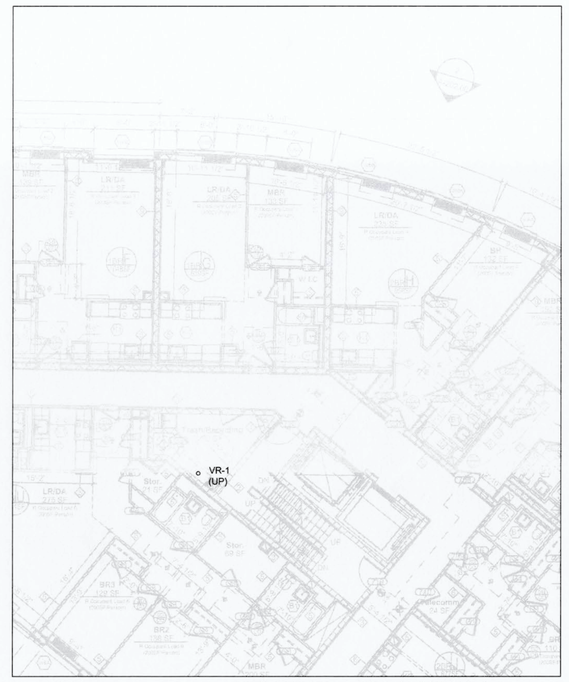
0 10' 20'




3. VR-1 SECOND TO SIXTH FLOOR RISER LOCATION PLAN

A-102 AS BACKGROUND

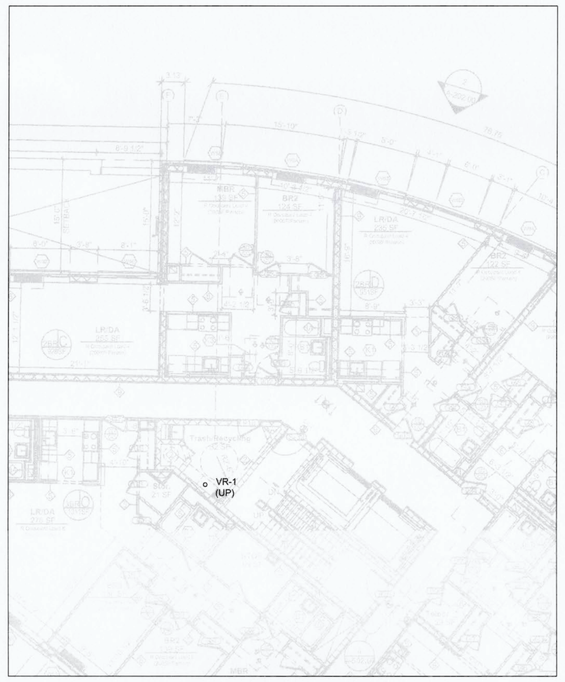
0 10' 20'




4. VR-1 SEVENTH TO EIGHTH FLOOR RISER LOCATION PLAN

A-103 USED AS BACKGROUND

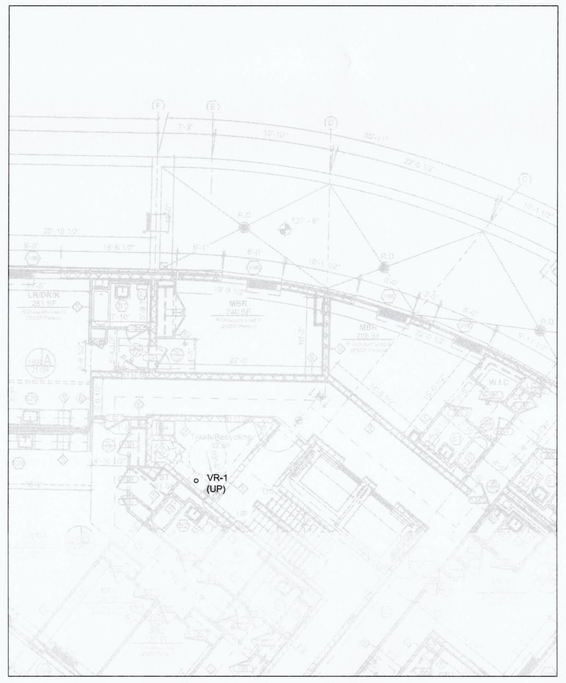
0 10' 20'




5. VR-1 NINTH TO TENTH FLOOR RISER LOCATION PLAN

A-104 USED AS BACKGROUND

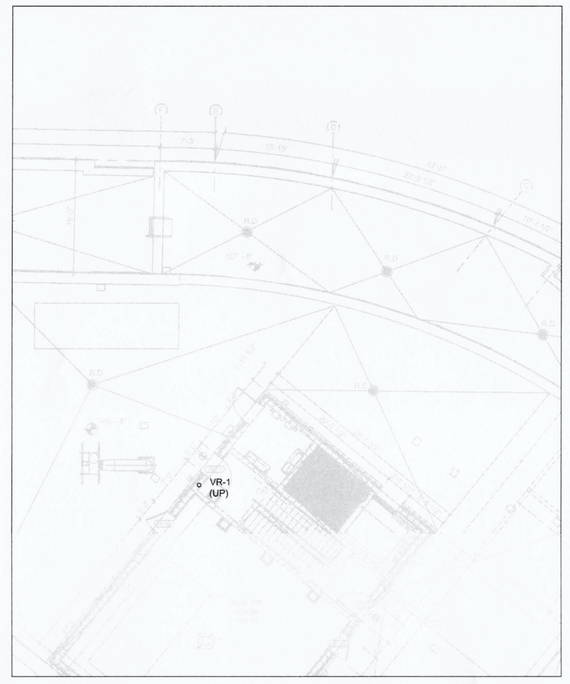
0 10' 20'




6. VR-1 ELEVENTH TO TWELFTH FLOOR RISER LOCATION PLAN

A-105 USED AS BACKGROUND

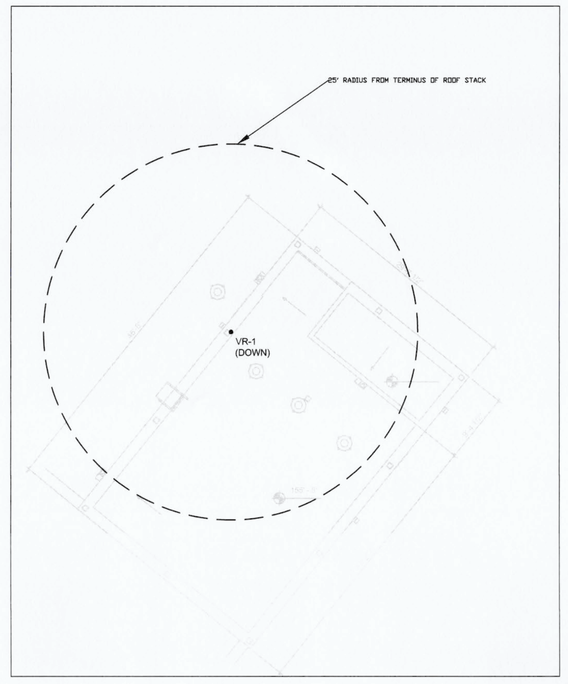
0 10' 20'




7. VR-1 ROOF RISER LOCATION PLAN

A-106 USED AS BACKGROUND

0 10' 20'




8. VR-1 HIGH ALBEDO ROOF OVER BULKHEAD/MECHANICAL ROOM LOCATION PLAN

A-106 USED AS BACKROUND

0 10' 20'

## LEGEND

| | |
|---|---|
| ○ (UP) ● (DOWN) VR-1 | VERTICAL RISER AND IDENTIFICATION NUMBER. EXTEND THROUGH ROOF TO SUCTION FAN (REFER TO DETAIL 2 ON ENV-103) (NOT TO SCALE) |

## NOTES

1. THIS DRAWING IS FOR THE SUB-SLAB DEPRESSURIZATION SYSTEM ONLY. THIS PLAN IS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER PURPOSES.
2. REFER TO DRAWINGS ENV-101 AND ENV-103 FOR SYSTEM LAYOUT, VENT PIPE, RISER PIPE, EXHAUST STACK DETAILS.
3. REFER TO DRAWING ENV-103 FOR FAN AND INSTRUMENT SCHEDULE, TYPICAL SSDS CROSS SECTION, GENERAL NOTES, AND BLOWER NOTES.
4. ALL SOLID PVC HORIZONTAL PIPE RUNS (ABOVE GROUND AND UNDERGROUND) MUST BE PITCHED A MINIMUM OF 1/8-INCH VERTICAL PER FOOT HORIZONTAL (1% SLOPE) TOWARDS SLOTTED PVC PIPE OR TO CONDENSATE DRAIN WITHIN THE SUB-SLAB WHEN UNDERGROUND PIPING CANNOT BE SLOPED TOWARDS PIT. THE SYSTEM SHALL BE INSTALLED SUCH THAT NO PORTION WILL ALLOW EXCESS ACCUMULATION OF CONDENSATION.
5. CONTRACTOR TO VERIFY THAT VENT STACKS EXHAUST LOCATIONS ARE A DISTANCE OF 25 FEET OR MORE FROM ANY AIR INLETS AND OPERABLE WINDOWS (INCLUDING NEIGHBORING PROPERTIES) AND THAT FINAL HEIGHT AND LOCATION OF VENT STACKS ARE IN ACCORDANCE WITH NYC BUILDING CODE.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF EQUIPMENT, DUCTWORK, AND RAIL LOCATIONS AND/OR PROPOSED MOUNTING FOR APPROVAL BEFORE CONSTRUCTION.
7. FIRE STOPPING WAS INSTALLED AT PIPE PENETRATIONS IN ACCORDANCE WITH NYC BUILDING CODE.
8. SSDS RISERS SHALL NOT BE INSTALLED IN A SHAFT CONTAINING DUCTS CONVEYING ENVIRONMENTAL AIR.
9. BASE MAP TAKEN FROM DRAWINGS A-100 THROUGH A-106 DATED 03/18/2015 PREPARED BY MAGNUSSON ARCHITECTURE &PLANNING PC .

CODE COMPLIANCE NOTES:

1. THE SUB-SLAB DEPRESSURIZATION SYSTEM COMPLIES WITH THE REQUIREMENTS OF THE 2008 NYC MECHANICAL CODE SECTION 512, "SUBSLAB SOIL EXHAUST SYSTEMS."
2. THE SUB-SLAB DEPRESSURIZATON SYSTEM IS NOT A "HAZARDOUS EXHAUST SYSTEM" AS DEFINED IN THE 2008 NYC MECHANICAL CODE SECTION 510.
3. 2008 NYC MECHANICAL CODE CHAPTER 6, "DUCT SYSTEMS", PARAGRAPH 601.3, "CONTAMINATION PREVENTION" DOES NOT APPLY TO THE SUB-SLAB DEPRESSURIZATION RISERS, WHICH ARE NOT UNDER PRESSURE.
4. 2008 NYC MECHANICAL CODE CHAPTER 6, "DUCT SYSTEMS", PARAGRAPH 607.5.5.2, "LIMITATIONS" DOES NOT APPLY TO THE SUB-SLAB DEPRESSURIZATION SYSTEM RISERS; HOWEVER, THE DESIGN DOES NOT ALLOW FOR INSTALLATION OF SSDS RISERS IN SHAFTS THAT CONTAIN DUCTWORK CONVEYING ENVIRONMENTAL AIR.

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STATE OF NEW YORK · MICHELLE LAPIN · No. 073934 · LICENSED PROFESSIONAL ENGINEER

MICHELLE LAPIN , P.E.

REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | 05/04/2015 | DEC SUBMISSION |
| | 06/12/2015 | DEC REVISIONS |
| | 06/24/2015 | DESIGN REVISIONS |
| | 07/16/2015 | 100% CD |
| | 10/07/2016 | AS BUILT EDITS |
| | 11/04/2016 | SMP/FER SUBMISSION |
| | 08/06/2018 | 2018 PRR |

PROJECT

ELTON CROSSING
(MELROSE C FAMILY)
BRONX, NEW YORK

| DRAWN BY | CHECKED BY |
|---|---|
| KH | MG |
| SCALE: AS NOTED | DATE: 06/24/15 |

SHEET TITLE

SSDS PLAN
RISER PLAN 1

SHEET NO.

ENV-102



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SHEET 4 OF 4

ENV-103

SHEET NO.

SSDS EQUIPMENT
SCHEDULE AND
DETAILS

SHEET TITLE

| SCALE | DATE |
|---|---|
| AS NOTED | 06/24/15 |

| DRAWN BY | CHECKED BY |
|---|---|
| KH | MG |

ELTON CROSSING
(MELROSE C FAMILY)
BRONX, NEW YORK

PROJECT

| No. | DATE | DESCRIPTION |
|---|---|---|
| | 06/06/2016 | 2016 PRR |
| | 11/04/2016 | SMP/EER SUBMISSION |
| | 10/07/2016 | AS BUILT EDITS |
| | 07/18/2016 | 100% CD |
| | 06/24/2016 | DESIGN REVISIONS |
| | 06/12/2016 | DEC REVISIONS |
| | 06/04/2016 | DEC SUBMISSION |

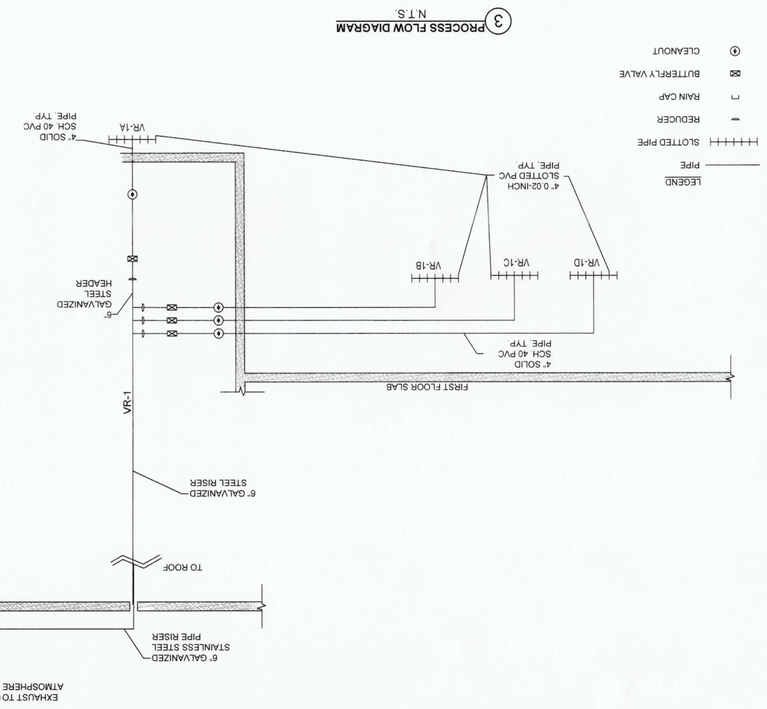
REVISIONS

NICHELLE LAPIN, P.E.

STATE OF NEW YORK
NICHELLE LAPIN
LICENSED PROFESSIONAL ENGINEER
No. 093931

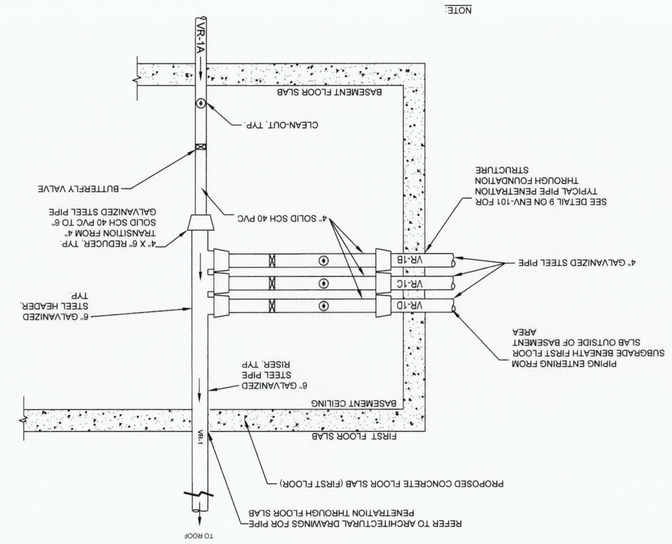
GENERAL NOTES:

1. DRAWING SHALL BE USED FOR SUB-SLAB DEPRESSURIZATION SYSTEM ONLY.
2. DESIGN DETAILS AND DRAWINGS ARE ADAPTED FROM EPA DOCUMENT EPA/625/R-93/016
3. SYSTEM INSTALLATION ADHERES TO OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH). ALL APPLICABLE PORTIONS OF THE BUILDING CODE OF THE CITY OF NEW YORK, INCLUDING BUT NOT LIMITED TO 2008 NEW YORK CITY MECHANICAL CODE, CHAPTER 5, SECTION MC 512-SUBSLAB EXHAUST SYSTEMS, AS SUCH POINT OF EXHAUST IS
   - AT LEAST 10 FEET ABOVE ROOF
   - AT LEAST 25 FEET FROM ANY ADJOINING OR ADJACENT BUILDINGS, OPERABLE WINDOWS, HVAC INTAKES, SUPPLY REGISTERS, OR ANY OTHER AIR INLETS
4. VENT AND RISER PIPING INSTALLED IN ACCORDANCE WITH THE NEW YORK CITY PLUMBING CODE, INCLUDING, BUT NOT LIMITED TO, THOSE REQUIREMENTS PERTAINING TO:
   - TRENCHING, EXCAVATION, AND BACKFILL
   - PROTECTION OF SYSTEM COMPONENTS
   - STRUCTURAL SAFETY
   - PIPING SUPPORT
   - JOINTS
6. REFER TO DRAWINGS ENV-100, ENV-101 AND ENV-102 FOR SSDS PIPING LAYOUT, RISER, GAS VAPOR BARRIER AND GAS PERMEABLE AGGREGATE DETAILS AND SECTIONS



NOTES:

1. PROVIDE PITCH POCKET IN PLATE FOR DRAINAGE.
2. ADJUST DIMENSIONS TO PROVIDE A TIGHT FIT BETWEEN THE PIPE AND THE BEND.
3. 1/4" S.S. GUY WIRE SHALL BE LOOPED THROUGH THE 3/8" Ø HOLES AT THE TOP AND BOTTOM CONNECTION PLATES AND THROUGH THE EYE AT EACH END OF THE TURNBUCKLE. EACH CONNECTION SHALL BE SECURED BY TWO 1/ 4" S.S. WIRE ROPE CLAMPS.
4. ALL PLATES, GUY WIRES, TURNBUCKLES, AND CLIPS ARE ASTM G304 STAINLESS STEEL.
5. RISER PIPE IS GALVANIZED STEEL. REFER TO SPECIFICATION 0 28 000.
6. PROVIDE CONNECTION PER MANUFACTURERS RECOMMENDATION OR USE (6) 1/4" ASTM G304 STAINLESS STEEL MACHINE SCREWS, DRILL AND TAP AS REQUIRED
7. THREE GUY WIRE/CONNECTION PLATES ARE TO BE USED SPACED EVENLY AROUND THE CIRCUMFERENCE OF THE PIPE (120° SPACING).
8. PROVIDE LIGHTNING ROD AND GROUNDING WIRE AS PER ELECTRICAL REQUIREMENTS.
9. COORDINATE ALL ROOF PENETRATIONS FOR FAN SUPPORT WITH OTHER TRADES.

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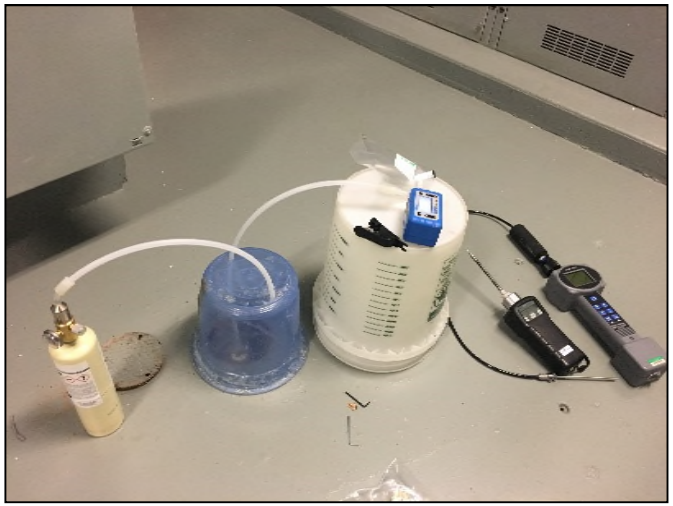
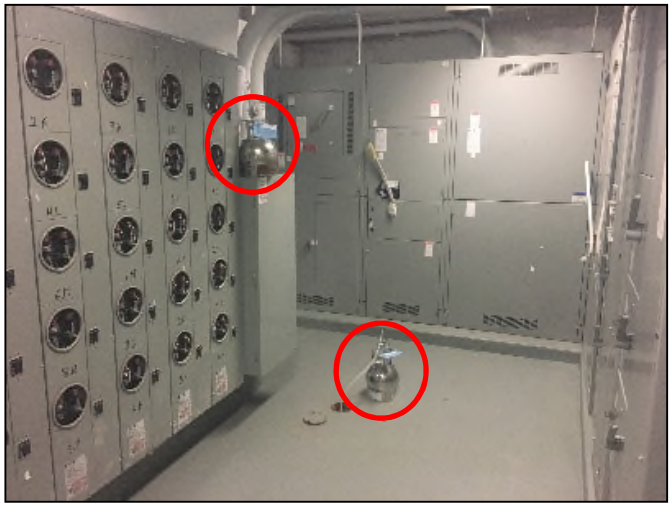
# APPENDIX B
# PHOTOGRAPHIC LOG

Photograph 1: Soil vapor monitoring point MP-5 in the partial cellar of the Site building.



Photograph 2: Helium tracer test for MP-1 in the partial cellar.



Photograph 3: Collecting samples from MP-1 and IA-1 (in the electric room located in the partial cellar).

Photograph 4: Collecting ambient air sample in the centrally-located exterior courtyard, facing west.

Photograph 5: Chemical inventory of paints/primers on the first floor of the north-central portion of the Site building.

Photograph 6: Collecting samples from MP-5 and IA-5 on the first floor (north-central portion of the Site building).

Photograph 7: Collecting samples from MP-4 and IA-4 on the first floor (southwestern portion of the Site building).

Photograph 8: Sub-slab depressurization system (SSDS) manifold in the telecommunications room of the partial cellar.

# APPENDIX C

## NYSDOH PRE-INSPECTION SURVEY

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Victor Chang Date/Time Prepared 11/19/2018

Preparer's Affiliation AKRF, Inc. Phone No. 646.388.9869

Purpose of Investigation Vapor Intrusion Assessment to determine if the sub-slab depressurization system needs to switch from passive to active.

**1. ~~OCCUPANT:~~** Construction Supervisor

**Interviewed:** (Y)/ N

Last Name: Cabral First Name: Ruddy

Address: 432 East 162nd Street (899 Elton Avenue), Bronx, New York

County: Bronx

Home Phone: _____ Office Phone: 917.807.5847

Number of Occupants/persons at this location NA Age of Occupants NA

**2. ~~OWNER OR LANDLORD~~:** (Check if same as occupant X )

**Interviewed: Y / N**

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| (Residential) | School | (Commercial/Multi-use) |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response)

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other:_____ |

**If multiple units, how many?** 199

**If the property is commercial, type?**

Business Type(s) Apartment Complex with Commercial on Ground Level - To be determined

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 199

**Other characteristics:**

Number of floors 12 Building age Superstructure was built in 2016

Is the building insulated? (Y) / N How air tight? (Tight) / Average / Not Tight

Except Open Garage (no heat) and Courtyard

**4. AIRFLOW**

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

NA - HVAC was not running at the time of reconnaissance.

Airflow near source

NA - HVAC was not running at the time of reconnaissance.

Outdoor air infiltration

NA - HVAC was not running at the time of reconnaissance.

Infiltration into air ducts

NA - HVAC was not running at the time of reconnaissance.

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | | |
|---|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | (concrete) | stone | brick | |
| **b. Basement type:** | full | crawlspace | (slab) | other Concrete walls | |
| **c. Basement floor:** | (concrete) | dirt | stone | other _____ | |
| **d. Basement floor:** | (uncovered) | covered | covered with _____ | | |
| **e. Concrete floor:** | unsealed | (sealed) | sealed with _____ | | |
| **f. Foundation walls:** | poured | (block) | stone | other Sheet rock frame | |
| **g. Foundation walls:** | unsealed | sealed | sealed with _____ | | |
| **h. The basement is:** | wet | damp | (dry) | moldy | Flooded on 11/20 at approx. 08:40 AM due to leak in pump. |
| **i. The basement is:** | finished | (unfinished) | partially finished | | |
| **j. Sump present?** | (Y) / N | | | | |
| **k. Water in sump?** | Y / (N) / not applicable | | | | |

**Basement/Lowest level depth below grade:** 10 (feet) Partial basement

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

Newly finished basement and ground level; slab and walls are in good condition; no cracks were observed.

Sump pump was present in partial basement. No penetrations were observed in foundation walls.

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | (Hot water baseboard) | |
| Space Heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is**:

| | | |
|---|---|---|
| (Natural Gas) | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** Natural Gas

| | | | | |
|---|---|---|---|---|
| **Boiler/furnace located in:** | (Basement) | Outdoors | Main Floor | Other_____ |
| **Air conditioning:** | (Central Air) | Window units | Open Windows | None |

**Are there air distribution ducts present?** (Y) / N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

Ductwork was observed to be in good condition where visible.

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally (Seldom) Almost Never

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | Mechanical, Electrical, and Storage/Locker Rooms |
| 1st Floor | Commerical (Stores/Offices - to be determined) |
| 2nd Floor | Residential Units |
| 3rd Floor | Residential Units |
| 4th Floor | Residential Units up until 12th Floor |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** (Y) / N

**b. Does the garage have a separate heating unit?** Y / (N) / NA Open Garage

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify Cars, Aerial Lift (temporarily)

**d. Has the building ever had a fire?** Y / (N) When?_____

**e. Is a kerosene or unvented gas space heater present?** Y / (N) Where?_____

**f. Is there a workshop or hobby/craft area?** Y / (N) Where & Type?_____

**g. Is there smoking in the building?** Y / (N) How frequently?_____

**h. Have cleaning products been used recently?** (Y) / N When & Type? 1st Floor was cleaned on 11/20/2018

**i. Have cosmetic products been used recently?** Y / (N) When & Type?_____

**j. Has painting/staining been done in the last 6 months?** (Y) / N Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y / (N) Where & When? _____

**l. Have air fresheners been used recently?** Y / (N) When & Type? _____

**m. Is there a kitchen exhaust fan?** Y / (N) If yes, where vented? NA

**n. Is there a bathroom exhaust fan?** Y / (N) If yes, where vented? NA

**o. Is there a clothes dryer?** (Y) / N If yes, is it vented outside? (Y) / N

**p. Has there been a pesticide application?** Y / (N) When & Type? _____

**Are there odors in the building?** Y / (N)
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) (Unknown)
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** (Y) / N Date of Installation: Completed in June 2018
**Is the system active or passive?** Active/(Passive) Currently - passive SSDS system that can switch to active (blower)

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)** NA

**a. Provide reasons why relocation is recommended:** _____

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

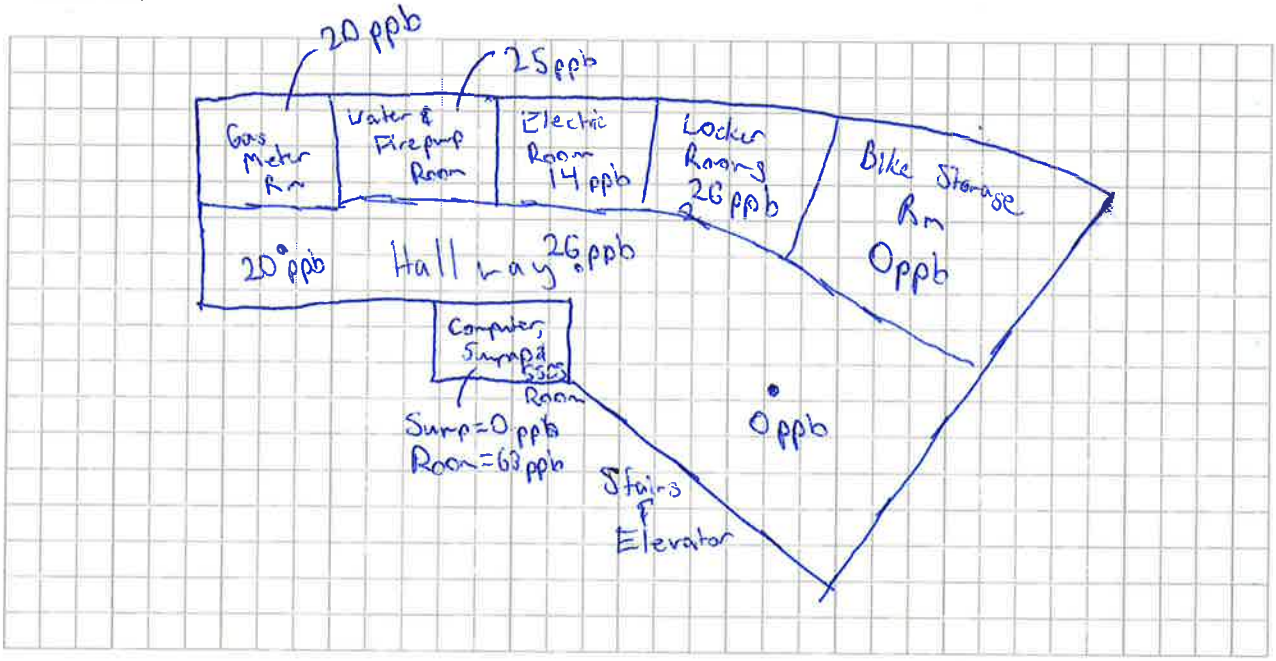
**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

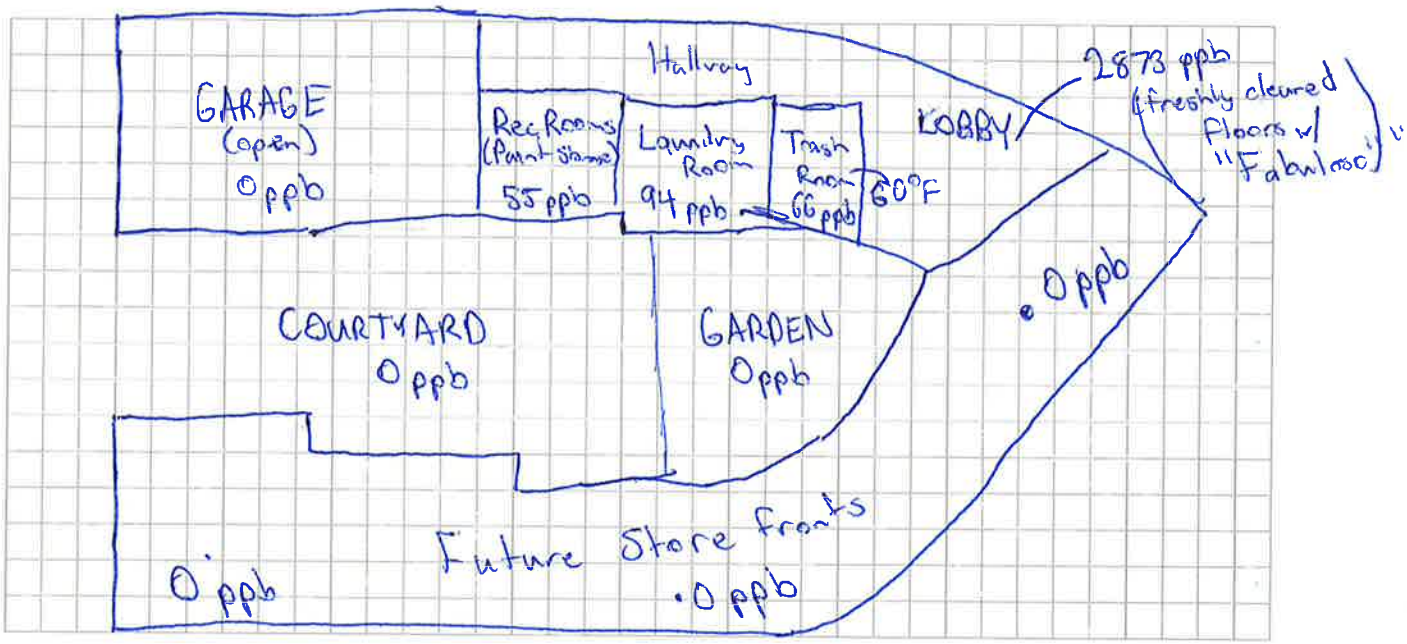
**11. FLOOR PLANS**

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**



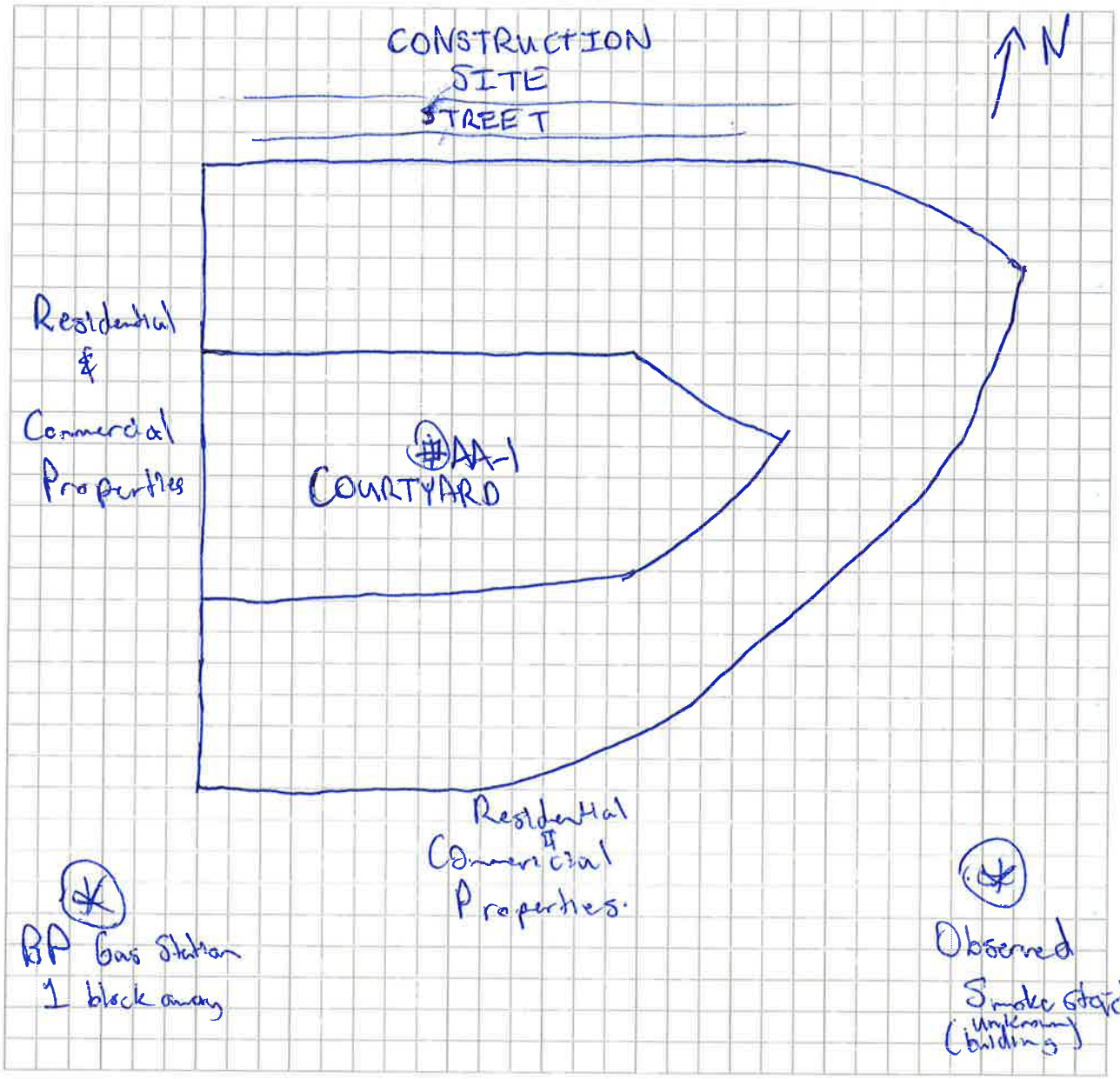

**First Floor:**



**12. OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** ppbRAE 2000

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo** Y / N |
|---|---|---|---|---|---|---|
| Storefronts East | Shell Rotellar Engine Oil | 2.5 Gal | (U) Plastic | Engine Oil | ND | Y |
| Storefronts Central | Misc. Silicone/Sealants | Various Tubes | (U) Plastic | Caulk/Silicone/Etc. | ND | Y |
| Storefronts Central | Klean Strip Green Safer Paint Thinner | 1 Gal | (U) Plastic | | ND | Y |
| Storefronts Central | H & W Number 10 Damping Oil | 1 Gal | (U) Plastic | Hydraulic Oil | ND | Y |
| Storefronts Central | Pure Bright Germicidal Ultra Bleach | 1 Gal | (U) Plastic | Bleach | ND | Y |
| Storefronts Central | Refrigerant 410A Freon | 25 lbs | (UO) Box | Freon | ND | Y |
| Storefronts Central | WD-40 | 12 oz | (U) Can | Hydrocarbons/Petroleum Base Oil | ND | Y |
| Storefronts West | Gasoline Jug | 1 Gal | (U) Plastic | Gasoline | ND | Y |
| Storefronts West | Novaplan 2 Plus | 50 lbs | (UO) 2 Pallets | Cement-based | ND | Y |
| Storefronts West | BBT Bio-flooring Adhesive | 4 Gal | (UO) 7 Buckets | Petroleum Distillates | ND | Y |
| Laundry Room | All Purpose Sheet Rock | 5 Gal | (UO) 5 Buckets | Sheet Rock | ND | Y |
| Laundry Room | Goof Off | 1 Gal | (U) Can | Acetone/Xyeline | 94.1 ppm | Y |
| Paint Storage Rm | Various Paints | Various | (U/UO) Buckets | Paint | ND | Y |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

# APPENDIX D

## SOIL VAPOR, AND INDOOR AND AMBIENT AIR SAMPLING LOGS

# Ambient Air Sample Log

| | | | |
|---|---|---|---|
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **AKRF Project No:** | 11901 | **Sampled By:** | V. Chang, AKRF |
| **Date:** | 11/19 - 11/20/18 | **Weather:** | Cloudy 46-50 ºF/Cloudy 44-47 ºF |

## Sample Setup

### Sample Identification

| | | | |
|---|---|---|---|
| **On-Site Location:** | Central Courtyard (AA-1) | **SUMMA® Canister ID:** | 4141 |
| **Flow Controller ID:** | 4055 | **Ambient Air Sample ID:** | AA-1_20181120 |

### Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|---|---|---|---|---|
| **Time Started:** | 13:00 | -30 | ND | None |
| **Time:** | 15:01 | -26 | ND | None |
| **Time Halfway:** | 7:43 | -19 | ND | Rained Overnight |
| **Time:** | 15:15 | -17 | ND | None |
| **Time Stopped:** | 16:27 | -17 | ND | Vacuum remained at -17 inHg for approximately 5 hours. |

| | | | |
|---|---|---|---|
| Notes: | ND = non-detect | L/min = Liters per minute | in/Hg = inches of mercury |
| | Ambient air sample AA-1_20181120 was collected in a 6-L SUMMA® canister using a 24-hour flow controller. | | |

# Soil Vapor Sample Log

| | | | |
|---|---|---|---|
| **AKRF Project No:** | 11901 | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | **Sampled By:** | V. Chang |
| **Date:** | 11/19 - 11/20/18 | **Weather:** | Cloudy 46-50 ºF/Cloudy 44-47 ºF |

## Sample Setup

| | | | | | |
|---|---|---|---|---|---|
| **Vapor Point Depth:** | 9 | Inches | **Total Time of Purge:** | 5 mins | |
| **Purging Pump:** | Gilair Plus | | **Purge Volume:** | 1 L | |
| **Pump Flow Rate*:** | 0.2 | L/min | **Purged Vapor PID:** | 101 | ppb |
| | | | **Helium Concentration:** | ND | |

## Sample Identification

| | | | |
|---|---|---|---|
| **Soil Vapor Point ID:** | MP-1 | **SUMMA® Canister ID:** | 5447 |
| **Flow Controller ID:** | 4500 | **Soil Vapor Sample ID:** | MP-1_20181120 |

## Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Notes |
|---|---|---|---|---|
| **Time Started:** | 12:58 | -29 | 46 ppb | Sump present in basement |
| **Time Halfway:** | 07:46 | -20.5 | 52 ppb | None |
| **Time Stopped:** | 15:15 | -13 | 63 ppb | Basment was submerged at approx. 0845 due to leak in a pump - Port was submerged. |

| | |
|---|---|
| Notes: | *Purge flow rate not to exceed 0.2 L/min. |
| | ND = non-detect ppb = parts per billion L/min = Liters per minute in/Hg = inches of mercury |
| | Soil vapor sample MP-1 20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |

# Soil Vapor Sample Log

| | | | | | |
|---|---|---|---|---|---|
| **AKRF Project No:** | 11901 | | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC | |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | **Sampled By:** | V. Chang | |
| **Date:** | 11/19 - 11/20/18 | | **Weather:** | Cloudy 46-50 ºF/Cloudy 44-47 ºF | |
| **Sample Setup** | | | | | |
| **Vapor Point Depth:** | 9 | Inches | **Total Time of Purge:** | 5 mins | |
| **Purging Pump:** | Gilair Plus | | **Purge Volume:** | 1 L | |
| **Pump Flow Rate*:** | 0.2 | L/min | **Purged Vapor PID:** | 56.4 | ppb |
| | | | **Helium Concentration:** | ND | |
| **Sample Identification** | | | | | |
| **Soil Vapor Point ID:** | MP-2 | | **SUMMA® Canister ID:** | 2512 | |
| **Flow Controller ID:** | 2806 | | **Soil Vapor Sample ID:** | MP-2_20181120 | |

## Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Notes |
|---|---|---|---|---|
| **Time Started:** | 12:54 | -30 | ND | None |
| **Time Halfway:** | 07:36 | -14 | ND | None |
| **Time Stopped:** | 12:59 | -7 | ND | None |

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect L/min = Liters per minute in/Hg = inches of mercury

Soil vapor sample MP-2_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller.

# Soil Vapor Sample Log

| | | | | | |
|---|---|---|---|---|---|
| **AKRF Project No:** | 11901 | | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC | |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | **Sampled By:** | V. Chang | |
| **Date:** | 11/19 - 11/20/18 | | **Weather:** | Cloudy 46-50 ºF/Cloudy 44-47 ºF | |
| **Sample Setup** | | | | | |
| **Vapor Point Depth:** | 9 | Inches | **Total Time of Purge:** | 5 mins | |
| **Purging Pump:** | Gilair Plus | | **Purge Volume:** | 1 L | |
| **Pump Flow Rate*:** | 0.2 | L/min | **Purged Vapor PID:** | 50.5 | ppb |
| | | | **Helium Concentration:** | ND | |
| **Sample Identification** | | | | | |
| **Soil Vapor Point ID:** | MP-3 | | **SUMMA® Canister ID:** | 4445 | |
| **Flow Controller ID:** | 4212 | | **Soil Vapor Sample ID:** | MP-3_20181120 | |

## Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Notes |
|---|---|---|---|---|
| **Time Started:** | 12:52 | -30 | ND | None |
| **Time Halfway:** | 07:38 | -13 | ND | None |
| **Time Stopped:** | 13:00 | -5 | ND | None |

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect L/min = Liters per minute in/Hg = inches of mercury

Soil vapor sample MP-3_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller.

# Soil Vapor Sample Log

| | | | | | |
|---|---|---|---|---|---|
| **AKRF Project No:** | 11901 | | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC | |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | **Sampled By:** | V. Chang | |
| **Date:** | 11/19 - 11/20/18 | | **Weather:** | Cloudy 46-50 ºF/Cloudy 44-47 ºF | |
| **Sample Setup** | | | | | |
| **Vapor Point Depth:** | 9 | Inches | **Total Time of Purge:** | 5 mins | |
| **Purging Pump:** | Gilair Plus | | **Purge Volume:** | 1 L | |
| **Pump Flow Rate*:** | 0.2 | L/min | **Purged Vapor PID:** | 19.9 | ppb |
| | | | **Helium Concentration:** | ND | |
| **Sample Identification** | | | | | |
| **Soil Vapor Point ID:** | MP-4 | | **SUMMA® Canister ID:** | 5154 | |
| **Flow Controller ID:** | 2772 | | **Soil Vapor Sample ID:** | MP-4_20181120 | |

## Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Notes |
|---|---|---|---|---|
| **Time Started:** | 12:50 | -30 | ND | None |
| **Time Stopped:** | 07:45 | -1.5 | ND | None |

| | |
|---|---|
| Notes: | *Purge flow rate not to exceed 0.2 L/min. |
| | ND = non-detect L/min = Liters per minute in/Hg = inches of mercury |
| | Soil vapor sample MP-4_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |

# Soil Vapor Sample Log

| | | | | | |
|---|---|---|---|---|---|
| **AKRF Project No:** | 11901 | | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC | |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | **Sampled By:** | V. Chang | |
| **Date:** | 11/19/2018 | | **Weather:** | Cloudy 46-50 ºF/Cloudy 44-47 ºF | |
| **Sample Setup** | | | | | |
| **Vapor Point Depth:** | 9 | Inches | **Total Time of Purge:** | 5 mins | |
| **Purging Pump:** | Gilair Plus | | **Purge Volume:** | 1 L | |
| **Pump Flow Rate*:** | 0.2 | L/min | **Purged Vapor PID:** | 5093 | ppb |
| | | | **Helium Concentration:** | ND | |
| **Sample Identification** | | | | | |
| **Soil Vapor Point ID:** | MP-5 | | **SUMMA® Canister ID:** | 5621 | |
| **Flow Controller ID:** | 4193 | | **Soil Vapor Sample ID:** | MP-5_20181119 | |

## Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Notes |
|---|---|---|---|---|
| **Time Started:** | 12:56 | -30 | 132 ppb | Paint storage room |
| **Time Stopped:** | 14:50 | -3 | 55 ppb | None |

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppb = parts per billion L/min = Liters per minute in/Hg = inches of mercury

Soil vapor sample MP-5_20181119 collected in a 6-L SUMMA® canister using a 24-hour flow controller.

# Indoor Air Sample Log

| | | | |
|---|---|---|---|
| **AKRF Project No:** | 11901 | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | |
| **Date:** | 11/19 - 11/20/18 | **Sampled By:** | V. Chang |

## Sample Setup

### Sample Identification

| | | | |
|---|---|---|---|
| **On-Site Location:** | IA-1 | **SUMMA® Canister ID:** | 3036 |
| **Flow Controller ID:** | 3294 | **Indoor Air Sample ID:** | IA-1_20181120 |

### Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|---|---|---|---|---|
| **Time Started:** | 12:57 | -30 | 46 ppb | None |
| **Time Halfway:** | 07:46 | -12 | 52 ppb | None |
| **Time Stopped:** | 15:15 | -3.5 | 63 ppb | None |

| | |
|---|---|
| Notes: | ppb = parts per billion in/Hg = inches of mercury |
| | Indoor air sample IA-1_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |

# Indoor Air Sample Log

| | | | |
|---|---|---|---|
| **AKRF Project No:** | 11901 | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | |
| **Date:** | 11/19 - 11/20/18 | **Sampled By:** | V. Chang |

## Sample Setup

### Sample Identification

| | | | |
|---|---|---|---|
| **On-Site Location:** | IA-2 | **SUMMA® Canister ID:** | 3424 |
| **Flow Controller ID:** | 3167 | **Indoor Air Sample ID:** | IA-2_20181120 |

### Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|---|---|---|---|---|
| **Time Started:** | 12:53 | -27 | ND | None |
| **Time Halfway:** | 07:36 | -11.5 | ND | None |
| **Time Stopped:** | 12:54 | -4 | ND | None |

| | | | |
|---|---|---|---|
| Notes: | ND = non-detect | ppb = parts per billion | in/Hg = inches of mercury |
| | Indoor air sample IA-2_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. | | |

# Indoor Air Sample Log

| | | | |
|---|---|---|---|
| **AKRF Project No:** | 11901 | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | |
| **Date:** | 11/19 - 11/20/18 | **Sampled By:** | V. Chang |

## Sample Setup

### Sample Identification

| | | | |
|---|---|---|---|
| **On-Site Location:** | IA-3 | **SUMMA® Canister ID:** | 5982 |
| **Flow Controller ID:** | 2807 | **Indoor Air Sample ID:** | IA-3_20181120 |

### Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|---|---|---|---|---|
| **Time Started:** | 12:51 | -29 | ND | None |
| **Time Halfway:** | 07:38 | -12 | ND | None |
| **Time Stopped:** | 13:00 | -5.5 | ND | None |

| | | | |
|---|---|---|---|
| Notes: | ND = non-detect | ppb = parts per billion | in/Hg = inches of mercury |
| | Indoor air sample IA-3 20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. | | |

# Indoor Air Sample Log

| | | | |
|---|---|---|---|
| **AKRF Project No:** | 11901 | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | |
| **Date:** | 11/19 - 11/20/18 | **Sampled By:** | V. Chang |

## Sample Setup

### Sample Identification

| | | | |
|---|---|---|---|
| **On-Site Location:** | IA-4 | **SUMMA® Canister ID:** | 5017 |
| **Flow Controller ID:** | 3188 | **Indoor Air Sample ID:** | IA-4_20181120 |

### Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|---|---|---|---|---|
| **Time Started:** | 12:49 | -30 | ND | None |
| **Time Halfway:** | 07:40 | -13 | ND | None |
| **Time Stopped:** | 13:01 | -7 | ND | None |

| | | | |
|---|---|---|---|
| Notes: | ND = non-detect | ppb = parts per billion | in/Hg = inches of mercury |
| | Indoor air sample IA-4 20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. | | |

# Indoor Air Sample Log

| | | | |
|---|---|---|---|
| **AKRF Project No:** | 11901 | **Client:** | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| **Project Location:** | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | | |
| **Date:** | 11/19 - 11/20/18 | **Sampled By:** | V. Chang |

## Sample Setup

### Sample Identification

| | | | |
|---|---|---|---|
| **On-Site Location:** | IA-5 | **SUMMA® Canister ID:** | 5634 |
| **Flow Controller ID:** | 3664 | **Indoor Air Sample ID:** | IA-5_20181120 |

### Sample Collection

| Time | | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|---|---|---|---|---|
| **Time Started:** | 12:55 | -29 | 132 ppb | None |
| **Time Halfway:** | 07:44 | -11.5 | 82 ppb | None |
| **Time Stopped:** | 12:58 | -3 | 55 ppb | None |

| | |
|---|---|
| Notes: | ppb = parts per billion in/Hg = inches of mercury |
| | Indoor air sample IA-5 20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |

# APPENDIX E
# LABORATORY ANALYTICAL DATA SHEETS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 200-46353-1

SDG Number: 200-46353-1

Job Description: Elton Crossing

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, NY 10016

Attention: Amy Jordan

Approved for release.
Kristine A Dusablon
Project Manager II
12/10/2018 5:58 PM

Kristine A Dusablon, Project Manager II
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
kris.dusablon@testamericainc.com
12/10/2018

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates the analyte was analyzed for but not detected. |
| E | Result exceeded calibration range. |
| D | Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# CASE NARRATIVE

## Client: AKRF Inc

## Project: Elton Crossing

## Report Number: 200-46353-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

The samples were received on 11/23/2018; the samples arrived in good condition.

During the canister pressure check performed upon receipt, it was observed that sample AA-1_20181120 (200-46353-1) was received at an elevated residual vacuum level, while samples MP-4_20181120 (200-46353-10) and MP-5_20181119 (200-46353-11) were found to be received at ambient pressure. The associated flow controllers were evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate.

During the canister pressure check performed upon receipt, it was observed that sample MP-1_20181120 (200-46353-7) was received at an elevated residual vacuum level. The associated flow controller was evaluated upon receipt and was found to be outside the set flow and possible clogged.

**VOLATILE ORGANIC COMPOUNDS**

Samples AA-1_20181120 (200-46353-1), IA-1_20181120 (200-46353-2), IA-2_20181120 (200-46353-3), IA-3_20181120 (200-46353-4), IA-4_20181120 (200-46353-5), IA-5_20181120 (200-46353-6), MP-1_20181120 (200-46353-7), MP-2_20181120 (200-46353-8), MP-3_20181120 (200-46353-9), MP-4_20181120 (200-46353-10) and MP-5_20181119 (200-46353-11) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/06/2018 and 12/07/2018.

Samples IA-1_20181120 (200-46353-2)[10X], IA-5_20181120 (200-46353-6)[4X], MP-1_20181120 (200-46353-7)[50X] and MP-2_20181120 (200-46353-8)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MP-1_20181120 (200-46353-7) and MP-2_20181120 (200-46353-8) were diluted due to the abundance of non-taget analytes. A more concentrated analysis was not possible.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

## Client Sample ID: AA-1_20181120 — Lab Sample ID: 200-46353-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.58 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.50 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.54 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.0 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.25 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 6.5 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.26 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 0.83 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.25 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.036 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.36 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.20 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.80 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.9 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 1.8 | | 1.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 4.8 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.4 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 16 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.93 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 2.4 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.87 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.23 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 1.1 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.84 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 3.0 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: IA-1_20181120 — Lab Sample ID: 200-46353-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.53 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.52 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.2 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 200 | E | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.23 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 0.91 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloroform | 0.80 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.058 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.30 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.74 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 2.0 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 11 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 3.7 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Styrene | 0.24 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.20 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone - DL | 130 | D | 50 | | ppb v/v | 10 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 8.8 | D | 5.0 | | ppb v/v | 10 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: IA-1_20181120 (Continued) — Lab Sample ID: 200-46353-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene - DL | 3.0 | D | 2.0 | | ppb v/v | 10 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.6 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 5.1 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.2 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 480 | E | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.81 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 2.7 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 3.9 | | 0.98 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.76 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.37 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.96 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 2.8 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 8.7 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 46 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 16 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Styrene | 1.0 | | 0.85 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.96 | | 0.98 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone - DL | 310 | D | 120 | | ug/m3 | 10 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 38 | D | 22 | | ug/m3 | 10 | | TO-15 | Total/NA |
| o-Xylene - DL | 13 | D | 8.7 | | ug/m3 | 10 | | TO-15 | Total/NA |

## Client Sample ID: IA-2_20181120 — Lab Sample ID: 200-46353-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.58 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.57 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.55 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.3 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.27 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 5.7 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.42 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 2.1 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.30 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.070 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.32 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.39 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.93 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.9 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 2.0 | | 1.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 5.6 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.5 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 13 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.5 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 6.2 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 1.0 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.44 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: IA-2_20181120 (Continued) — Lab Sample ID: 200-46353-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 1.5 | | 0.93 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 1.2 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 3.5 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: IA-3_20181120 — Lab Sample ID: 200-46353-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.51 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.66 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.4 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 9.2 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.47 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 1.8 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.35 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.053 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.32 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.20 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.90 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.20 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.68 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.27 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.4 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 5.7 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.2 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 22 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.7 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 5.2 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 1.2 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.34 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 1.0 | | 0.93 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 1.0 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.82 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 3.4 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.86 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 3.0 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 1.2 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: IA-4_20181120 — Lab Sample ID: 200-46353-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.51 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 5.5 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 4.0 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 11 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.77 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: IA-4_20181120 (Continued) — Lab Sample ID: 200-46353-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone (2-Butanone) | 1.4 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.28 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.046 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.20 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.30 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.21 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.92 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 11 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 9.6 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.2 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 26 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 2.7 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 4.0 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.95 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.29 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.93 | | 0.93 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.97 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.87 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 3.5 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: IA-5_20181120 — Lab Sample ID: 200-46353-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.51 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.62 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.4 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 100 | E | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.38 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 3.5 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.39 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.061 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.31 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.20 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.58 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.78 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 1.3 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 6.1 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 2.1 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane - DL | 2.5 | D | 2.0 | | ppb v/v | 4 | | TO-15 | Total/NA |
| Acetone - DL | 120 | D | 20 | | ppb v/v | 4 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) - DL | 3.3 | D | 2.0 | | ppb v/v | 4 | | TO-15 | Total/NA |
| Ethylbenzene - DL | 1.3 | D | 0.80 | | ppb v/v | 4 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 6.2 | D | 2.0 | | ppb v/v | 4 | | TO-15 | Total/NA |
| o-Xylene - DL | 2.1 | D | 0.80 | | ppb v/v | 4 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: IA-5_20181120 (Continued) — Lab Sample ID: 200-46353-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 1.3 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 5.6 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.3 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 240 | E | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.3 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 10 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 1.3 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.39 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.98 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.83 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.4 | | 2.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 3.0 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 5.5 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 26 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 9.3 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane - DL | 6.0 | D | 4.8 | | ug/m3 | 4 | | TO-15 | Total/NA |
| Acetone - DL | 290 | D | 48 | | ug/m3 | 4 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) - DL | 9.7 | D | 5.9 | | ug/m3 | 4 | | TO-15 | Total/NA |
| Ethylbenzene - DL | 5.4 | D | 3.5 | | ug/m3 | 4 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 27 | D | 8.7 | | ug/m3 | 4 | | TO-15 | Total/NA |
| o-Xylene - DL | 9.0 | D | 3.5 | | ug/m3 | 4 | | TO-15 | Total/NA |

## Client Sample ID: MP-1_20181120 — Lab Sample ID: 200-46353-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 62 | | 10 | | ppb v/v | 50 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 300 | | 49 | | ug/m3 | 50 | | TO-15 | Total/NA |

## Client Sample ID: MP-2_20181120 — Lab Sample ID: 200-46353-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Heptane | 4.2 | | 4.0 | | ppb v/v | 20 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Heptane | 17 | | 16 | | ug/m3 | 20 | | TO-15 | Total/NA |

## Client Sample ID: MP-3_20181120 — Lab Sample ID: 200-46353-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.86 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.76 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.63 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.2 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 2.5 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 34 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.99 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 1.6 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloroform | 0.99 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.80 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MP-3_20181120 (Continued) — Lab Sample ID: 200-46353-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 0.053 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.24 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 4.4 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.23 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 3.6 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 1.7 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 1.3 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.38 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 1.1 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.47 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.40 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 4.3 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 2.7 | | 1.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.3 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 5.1 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 14 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 82 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 3.5 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 4.6 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 4.8 | | 0.98 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 2.7 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.33 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.76 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 18 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 1.2 | | 0.19 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 14 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 12 | | 1.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 5.5 | | 2.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 1.6 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 5.0 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 2.0 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 2.0 | | 0.98 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: MP-4_20181120 — Lab Sample ID: 200-46353-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.58 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.53 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.54 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 3.6 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.31 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 28 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 1.2 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.0 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 2.5 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.52 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.079 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.31 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.48 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MP-4_20181120 (Continued) — Lab Sample ID: 200-46353-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Heptane | 1.7 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 2.2 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.32 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 0.78 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.28 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.97 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.41 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.29 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.9 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 1.9 | | 1.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 8.6 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.7 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 66 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 3.7 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 3.6 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 7.5 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 1.8 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.50 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 1.4 | | 0.93 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 1.5 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 6.8 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 8.2 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 2.2 | | 1.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 3.2 | | 2.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 1.2 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 4.2 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 1.8 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 1.4 | | 0.98 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: MP-5_20181119 — Lab Sample ID: 200-46353-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.62 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 2.1 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.39 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 17 | | 5.0 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 2.4 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.43 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 6.9 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloroform | 0.21 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.32 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.094 | | 0.035 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.40 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.61 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.86 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 1.1 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MP-5_20181119 (Continued) — Lab Sample ID: 200-46353-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.36 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.34 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.76 | | 0.50 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.22 | | 0.20 | | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 3.1 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 2.3 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 5.1 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 2.2 | | 1.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 41 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 7.5 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.5 | | 0.70 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 20 | | 1.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 1.0 | | 0.98 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 1.1 | | 0.69 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.59 | | 0.22 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 1.3 | | 0.64 | | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 2.5 | | 0.82 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 3.5 | | 2.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 4.3 | | 0.75 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 2.4 | | 1.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 1.5 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 3.3 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.94 | | 0.87 | | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: AA-1_20181120

**Lab Sample ID: 200-46353-1**

**Date Collected: 11/20/18 16:27**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.58** | | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Chlorodifluoromethane** | **0.50** | | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Chloromethane** | **0.54** | | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **n-Butane** | **2.0** | | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Trichlorofluoromethane** | **0.25** | | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Acetone** | **6.5** | | 5.0 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **n-Hexane** | **0.26** | | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **0.83** | | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Cyclohexane** | **0.25** | | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Carbon tetrachloride** | **0.036** | | 0.035 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Benzene** | **0.36** | | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **n-Heptane** | **0.20** | | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| **Toluene** | **0.80** | | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |

**Client Sample ID: AA-1_20181120**
**Date Collected: 11/20/18 16:27**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-1**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| o-Xylene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 03:30 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 03:30 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.9** | | 2.5 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Chlorodifluoromethane** | **1.8** | | 1.8 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Chloromethane** | **1.1** | | 1.0 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **n-Butane** | **4.8** | | 1.2 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Trichlorofluoromethane** | **1.4** | | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Acetone** | **16** | | 12 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **n-Hexane** | **0.93** | | 0.70 | | ug/m3 | | | 12/06/18 03:30 | 1 |

**Client Sample ID: AA-1_20181120**
**Date Collected: 11/20/18 16:27**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-1**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **2.4** | | 1.5 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Cyclohexane** | **0.87** | | 0.69 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Carbon tetrachloride** | **0.23** | | 0.22 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Benzene** | **1.1** | | 0.64 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **n-Heptane** | **0.84** | | 0.82 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| **Toluene** | **3.0** | | 0.75 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| o-Xylene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 03:30 | 1 |

## Client Sample ID: AA-1_20181120

**Lab Sample ID: 200-46353-1**

**Date Collected: 11/20/18 16:27**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 03:30 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 03:30 | 1 |

## Client Sample ID: IA-1_20181120

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.53** | | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Chloromethane** | **0.52** | | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **n-Butane** | **2.2** | | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Trichlorofluoromethane** | **0.22** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Acetone** | **200** | **E** | 5.0 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **n-Hexane** | **0.23** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **0.91** | | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Chloroform** | **0.80** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Cyclohexane** | **0.22** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Carbon tetrachloride** | **0.058** | | 0.035 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Benzene** | **0.30** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| n-Heptane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |

## Client Sample ID: IA-1_20181120

**Date Collected: 11/20/18 13:44**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-2

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Toluene** | **0.74** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Ethylbenzene** | **2.0** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **m,p-Xylene** | **11** | | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **o-Xylene** | **3.7** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **Styrene** | **0.24** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| **1,2,4-Trimethylbenzene** | **0.20** | | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 04:21 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 04:21 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.6** | | 2.5 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Chloromethane** | **1.1** | | 1.0 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **n-Butane** | **5.1** | | 1.2 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Trichlorofluoromethane** | **1.2** | | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 04:21 | 1 |

**Client Sample ID: IA-1_20181120**
**Date Collected: 11/20/18 13:44**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-2**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acetone** | **480** | **E** | 12 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **n-Hexane** | **0.81** | | 0.70 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **2.7** | | 1.5 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Chloroform** | **3.9** | | 0.98 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Cyclohexane** | **0.76** | | 0.69 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Carbon tetrachloride** | **0.37** | | 0.22 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Benzene** | **0.96** | | 0.64 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| n-Heptane | 0.82 | U | 0.82 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Toluene** | **2.8** | | 0.75 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Ethylbenzene** | **8.7** | | 0.87 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **m,p-Xylene** | **46** | | 2.2 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **o-Xylene** | **16** | | 0.87 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| **Styrene** | **1.0** | | 0.85 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |

**Client Sample ID: IA-1_20181120**
**Date Collected: 11/20/18 13:44**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-2**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,2,4-Trimethylbenzene** | **0.96** | | 0.98 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 04:21 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 04:21 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Chlorodifluoromethane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2-Dichlorotetrafluoroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Chloromethane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| n-Butane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Vinyl chloride | 0.78 | U | 0.78 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,3-Butadiene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Bromomethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Chloroethane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Bromoethene(Vinyl Bromide) | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Trichlorofluoromethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,1,2-Trichlorotrifluoroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,1-Dichloroethene | 0.35 | U | 0.35 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| **Acetone** | **130** | **D** | 50 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Isopropyl alcohol | 50 | U | 50 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Carbon disulfide | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 3-Chloropropene | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Methylene Chloride | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| tert-Butyl alcohol | 50 | U | 50 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Methyl tert-butyl ether | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| trans-1,2-Dichloroethene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| n-Hexane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,1-Dichloroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Methyl Ethyl Ketone (2-Butanone) | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Chloroform | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Tetrahydrofuran | 50 | U | 50 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,1,1-Trichloroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Cyclohexane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Carbon tetrachloride | 0.35 | U | 0.35 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 2,2,4-Trimethylpentane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Benzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2-Dichloroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| n-Heptane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Trichloroethene | 0.35 | U | 0.35 | | ppb v/v | | | 12/07/18 16:45 | 10 |

**Client Sample ID: IA-1_20181120**
**Date Collected: 11/20/18 13:44**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-2**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2-Dichloropropane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,4-Dioxane | 50 | U | 50 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Bromodichloromethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| cis-1,3-Dichloropropene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Toluene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| trans-1,3-Dichloropropene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,1,2-Trichloroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Tetrachloroethene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Methyl Butyl Ketone (2-Hexanone) | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Dibromochloromethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2-Dibromoethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Chlorobenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Ethylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| **m,p-Xylene** | **8.8** | **D** | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| **o-Xylene** | **3.0** | **D** | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Styrene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Bromoform | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Cumene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,1,2,2-Tetrachloroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| n-Propylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 4-Ethyltoluene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,3,5-Trimethylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 2-Chlorotoluene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| tert-Butylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2,4-Trimethylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| sec-Butylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 4-Isopropyltoluene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,3-Dichlorobenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,4-Dichlorobenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Benzyl chloride | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| n-Butylbenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2-Dichlorobenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Hexachlorobutadiene | 2.0 | U | 2.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |
| Naphthalene | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 16:45 | 10 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 25 | U | 25 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Chlorodifluoromethane | 18 | U | 18 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2-Dichlorotetrafluoroethane | 14 | U | 14 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Chloromethane | 10 | U | 10 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| n-Butane | 12 | U | 12 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Vinyl chloride | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,3-Butadiene | 4.4 | U | 4.4 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Bromomethane | 7.8 | U | 7.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Chloroethane | 13 | U | 13 | | ug/m3 | | | 12/07/18 16:45 | 10 |

**Client Sample ID: IA-1_20181120**
**Date Collected: 11/20/18 13:44**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-2**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoethene(Vinyl Bromide) | 8.7 | U | 8.7 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Trichlorofluoromethane | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,1,2-Trichlorotrifluoroethane | 15 | U | 15 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,1-Dichloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| **Acetone** | **310** | **D** | 120 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Isopropyl alcohol | 120 | U | 120 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Carbon disulfide | 16 | U | 16 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 3-Chloropropene | 16 | U | 16 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Methylene Chloride | 17 | U | 17 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| tert-Butyl alcohol | 150 | U | 150 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Methyl tert-butyl ether | 7.2 | U | 7.2 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| trans-1,2-Dichloroethene | 7.9 | U | 7.9 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| n-Hexane | 7.0 | U | 7.0 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,1-Dichloroethane | 8.1 | U | 8.1 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Methyl Ethyl Ketone (2-Butanone) | 15 | U | 15 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| cis-1,2-Dichloroethene | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Chloroform | 9.8 | U | 9.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Tetrahydrofuran | 150 | U | 150 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,1,1-Trichloroethane | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Cyclohexane | 6.9 | U | 6.9 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Carbon tetrachloride | 2.2 | U | 2.2 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 2,2,4-Trimethylpentane | 9.3 | U | 9.3 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Benzene | 6.4 | U | 6.4 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2-Dichloroethane | 8.1 | U | 8.1 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| n-Heptane | 8.2 | U | 8.2 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Trichloroethene | 1.9 | U | 1.9 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Methyl methacrylate | 20 | U | 20 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2-Dichloropropane | 9.2 | U | 9.2 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,4-Dioxane | 180 | U | 180 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Bromodichloromethane | 13 | U | 13 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| cis-1,3-Dichloropropene | 9.1 | U | 9.1 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 20 | U | 20 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Toluene | 7.5 | U | 7.5 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| trans-1,3-Dichloropropene | 9.1 | U | 9.1 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,1,2-Trichloroethane | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Tetrachloroethene | 14 | U | 14 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Methyl Butyl Ketone (2-Hexanone) | 20 | U | 20 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Dibromochloromethane | 17 | U | 17 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2-Dibromoethane | 15 | U | 15 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Chlorobenzene | 9.2 | U | 9.2 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Ethylbenzene | 8.7 | U | 8.7 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| **m,p-Xylene** | **38** | **D** | 22 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| **o-Xylene** | **13** | **D** | 8.7 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Styrene | 8.5 | U | 8.5 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Bromoform | 21 | U | 21 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Cumene | 9.8 | U | 9.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,1,2,2-Tetrachloroethane | 14 | U | 14 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| n-Propylbenzene | 9.8 | U | 9.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |

## Client Sample ID: IA-1_20181120

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.8 | U | 9.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,3,5-Trimethylbenzene | 9.8 | U | 9.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 2-Chlorotoluene | 10 | U | 10 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| tert-Butylbenzene | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2,4-Trimethylbenzene | 9.8 | U | 9.8 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| sec-Butylbenzene | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 4-Isopropyltoluene | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,3-Dichlorobenzene | 12 | U | 12 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,4-Dichlorobenzene | 12 | U | 12 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Benzyl chloride | 10 | U | 10 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| n-Butylbenzene | 11 | U | 11 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2-Dichlorobenzene | 12 | U | 12 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| 1,2,4-Trichlorobenzene | 37 | U | 37 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Hexachlorobutadiene | 21 | U | 21 | | ug/m3 | | | 12/07/18 16:45 | 10 |
| Naphthalene | 26 | U | 26 | | ug/m3 | | | 12/07/18 16:45 | 10 |

## Client Sample ID: IA-2_20181120

**Lab Sample ID: 200-46353-3**

**Date Collected: 11/20/18 12:59**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.58** | | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Chlorodifluoromethane** | **0.57** | | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Chloromethane** | **0.55** | | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **n-Butane** | **2.3** | | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Trichlorofluoromethane** | **0.27** | | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Acetone** | **5.7** | | 5.0 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **n-Hexane** | **0.42** | | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **2.1** | | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |

## Client Sample ID: IA-2_20181120

**Date Collected: 11/20/18 12:59**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-3

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Cyclohexane** | **0.30** | | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Carbon tetrachloride** | **0.070** | | 0.035 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **2,2,4-Trimethylpentane** | **0.32** | | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Benzene** | **0.39** | | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| n-Heptane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| **Toluene** | **0.93** | | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| o-Xylene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 05:11 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 05:11 | 1 |

## Client Sample ID: IA-2_20181120

**Date Collected: 11/20/18 12:59**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-3

**Matrix: Air**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.9** | | 2.5 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Chlorodifluoromethane** | **2.0** | | 1.8 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Chloromethane** | **1.1** | | 1.0 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **n-Butane** | **5.6** | | 1.2 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Trichlorofluoromethane** | **1.5** | | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Acetone** | **13** | | 12 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **n-Hexane** | **1.5** | | 0.70 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **6.2** | | 1.5 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Cyclohexane** | **1.0** | | 0.69 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Carbon tetrachloride** | **0.44** | | 0.22 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **2,2,4-Trimethylpentane** | **1.5** | | 0.93 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Benzene** | **1.2** | | 0.64 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| n-Heptane | 0.82 | U | 0.82 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| **Toluene** | **3.5** | | 0.75 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 05:11 | 1 |

## Client Sample ID: IA-2_20181120

**Lab Sample ID: 200-46353-3**

**Date Collected: 11/20/18 12:59**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| o-Xylene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 05:11 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 05:11 | 1 |

## Client Sample ID: IA-3_20181120

**Lab Sample ID: 200-46353-4**

**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.51** | | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Chloromethane** | **0.66** | | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **n-Butane** | **2.4** | | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Trichlorofluoromethane** | **0.22** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Acetone** | **9.2** | | 5.0 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |

**Client Sample ID: IA-3_20181120**
**Lab Sample ID: 200-46353-4**
**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **n-Hexane** | **0.47** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **1.8** | | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Cyclohexane** | **0.35** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Carbon tetrachloride** | **0.053** | | 0.035 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **2,2,4-Trimethylpentane** | **0.22** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Benzene** | **0.32** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **n-Heptane** | **0.20** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Toluene** | **0.90** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **Ethylbenzene** | **0.20** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **m,p-Xylene** | **0.68** | | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| **o-Xylene** | **0.27** | | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |

## Client Sample ID: IA-3_20181120

**Date Collected: 11/20/18 13:00**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-4

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:01 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:01 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.5** | | 2.5 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Chloromethane** | **1.4** | | 1.0 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **n-Butane** | **5.7** | | 1.2 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Trichlorofluoromethane** | **1.2** | | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Acetone** | **22** | | 12 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **n-Hexane** | **1.7** | | 0.70 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **5.2** | | 1.5 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Cyclohexane** | **1.2** | | 0.69 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Carbon tetrachloride** | **0.34** | | 0.22 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **2,2,4-Trimethylpentane** | **1.0** | | 0.93 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Benzene** | **1.0** | | 0.64 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **n-Heptane** | **0.82** | | 0.82 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 06:01 | 1 |

## Client Sample ID: IA-3_20181120

**Lab Sample ID: 200-46353-4**

**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Toluene** | **3.4** | | 0.75 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **Ethylbenzene** | **0.86** | | 0.87 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **m,p-Xylene** | **3.0** | | 2.2 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| **o-Xylene** | **1.2** | | 0.87 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 06:01 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 06:01 | 1 |

## Client Sample ID: IA-4_20181120

**Lab Sample ID: 200-46353-5**

**Date Collected: 11/20/18 13:01**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.51** | | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Chloromethane** | **5.5** | | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **n-Butane** | **4.0** | | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |

## Client Sample ID: IA-4_20181120

**Date Collected: 11/20/18 13:01**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-5

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Trichlorofluoromethane** | **0.22** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Acetone** | **11** | | 5.0 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **n-Hexane** | **0.77** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **1.4** | | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Cyclohexane** | **0.28** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Carbon tetrachloride** | **0.046** | | 0.035 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **2,2,4-Trimethylpentane** | **0.20** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Benzene** | **0.30** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **n-Heptane** | **0.21** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| **Toluene** | **0.92** | | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| o-Xylene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |

**Client Sample ID: IA-4_20181120**
**Date Collected: 11/20/18 13:01**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-5**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 06:51 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 06:51 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.5** | | 2.5 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Chloromethane** | **11** | | 1.0 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **n-Butane** | **9.6** | | 1.2 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Trichlorofluoromethane** | **1.2** | | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Acetone** | **26** | | 12 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **n-Hexane** | **2.7** | | 0.70 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **4.0** | | 1.5 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Cyclohexane** | **0.95** | | 0.69 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Carbon tetrachloride** | **0.29** | | 0.22 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **2,2,4-Trimethylpentane** | **0.93** | | 0.93 | | ug/m3 | | | 12/06/18 06:51 | 1 |

**Client Sample ID: IA-4_20181120**
**Lab Sample ID: 200-46353-5**
**Date Collected: 11/20/18 13:01**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.97** | | 0.64 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **n-Heptane** | **0.87** | | 0.82 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| **Toluene** | **3.5** | | 0.75 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| o-Xylene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 06:51 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 06:51 | 1 |

## Client Sample ID: IA-5_20181120

**Date Collected: 11/20/18 12:58**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-6

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.51** | | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Chloromethane** | **0.62** | | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **n-Butane** | **2.4** | | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Trichlorofluoromethane** | **0.22** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Acetone** | **100** | **E** | 5.0 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **n-Hexane** | **0.38** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **3.5** | | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Cyclohexane** | **0.39** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Carbon tetrachloride** | **0.061** | | 0.035 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Benzene** | **0.31** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **n-Heptane** | **0.20** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **4-Methyl-2-pentanone (Methyl isobutyl ketone)** | **0.58** | | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Toluene** | **0.78** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |

## Client Sample ID: IA-5_20181120

**Date Collected: 11/20/18 12:58**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-6

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **Ethylbenzene** | **1.3** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **m,p-Xylene** | **6.1** | | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| **o-Xylene** | **2.1** | | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 07:42 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 07:42 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.5** | | 2.5 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Chloromethane** | **1.3** | | 1.0 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **n-Butane** | **5.6** | | 1.2 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Trichlorofluoromethane** | **1.3** | | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Acetone** | **240** | **E** | 12 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **n-Hexane** | **1.3** | | 0.70 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 07:42 | 1 |

**Client Sample ID: IA-5_20181120**
**Date Collected: 11/20/18 12:58**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-6**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Methyl Ethyl Ketone (2-Butanone)** | **10** | | 1.5 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Cyclohexane** | **1.3** | | 0.69 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Carbon tetrachloride** | **0.39** | | 0.22 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Benzene** | **0.98** | | 0.64 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **n-Heptane** | **0.83** | | 0.82 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **4-Methyl-2-pentanone (Methyl isobutyl ketone)** | **2.4** | | 2.0 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Toluene** | **3.0** | | 0.75 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **Ethylbenzene** | **5.5** | | 0.87 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **m,p-Xylene** | **26** | | 2.2 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| **o-Xylene** | **9.3** | | 0.87 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 07:42 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 07:42 | 1 |

## Client Sample ID: IA-5_20181120

**Date Collected: 11/20/18 12:58**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-6

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 07:42 | 1 |

### Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Chlorodifluoromethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2-Dichlorotetrafluoroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Chloromethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| **n-Butane** | **2.5** | **D** | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Vinyl chloride | 0.31 | U | 0.31 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,3-Butadiene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Bromomethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Chloroethane | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Bromoethene(Vinyl Bromide) | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Trichlorofluoromethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,1,2-Trichlorotrifluoroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| **Acetone** | **120** | **D** | 20 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Isopropyl alcohol | 20 | U | 20 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Carbon disulfide | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 3-Chloropropene | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Methylene Chloride | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| tert-Butyl alcohol | 20 | U | 20 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Methyl tert-butyl ether | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| trans-1,2-Dichloroethene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| n-Hexane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,1-Dichloroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| **Methyl Ethyl Ketone (2-Butanone)** | **3.3** | **D** | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Chloroform | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Tetrahydrofuran | 20 | U | 20 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,1,1-Trichloroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Cyclohexane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Carbon tetrachloride | 0.14 | U | 0.14 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 2,2,4-Trimethylpentane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Benzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2-Dichloroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| n-Heptane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Trichloroethene | 0.14 | U | 0.14 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2-Dichloropropane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,4-Dioxane | 20 | U | 20 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Bromodichloromethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| cis-1,3-Dichloropropene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Toluene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| trans-1,3-Dichloropropene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,1,2-Trichloroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |

**Client Sample ID: IA-5_20181120**
**Lab Sample ID: 200-46353-6**
**Date Collected: 11/20/18 12:58**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Dibromochloromethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2-Dibromoethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Chlorobenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| **Ethylbenzene** | **1.3** | **D** | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| **m,p-Xylene** | **6.2** | **D** | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| **o-Xylene** | **2.1** | **D** | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Styrene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Bromoform | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Cumene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,1,2,2-Tetrachloroethane | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| n-Propylbenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 4-Ethyltoluene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,3,5-Trimethylbenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 2-Chlorotoluene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| tert-Butylbenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2,4-Trimethylbenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| sec-Butylbenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 4-Isopropyltoluene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,3-Dichlorobenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,4-Dichlorobenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Benzyl chloride | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| n-Butylbenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2-Dichlorobenzene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| 1,2,4-Trichlorobenzene | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Hexachlorobutadiene | 0.80 | U | 0.80 | | ppb v/v | | | 12/06/18 22:33 | 4 |
| Naphthalene | 2.0 | U | 2.0 | | ppb v/v | | | 12/06/18 22:33 | 4 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 9.9 | U | 9.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Chlorodifluoromethane | 7.1 | U | 7.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2-Dichlorotetrafluoroethane | 5.6 | U | 5.6 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Chloromethane | 4.1 | U | 4.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| **n-Butane** | **6.0** | **D** | 4.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Vinyl chloride | 0.80 | U | 0.80 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,3-Butadiene | 1.8 | U | 1.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Bromomethane | 3.1 | U | 3.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Chloroethane | 5.3 | U | 5.3 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Bromoethene(Vinyl Bromide) | 3.5 | U | 3.5 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Trichlorofluoromethane | 4.5 | U | 4.5 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,1,2-Trichlorotrifluoroethane | 6.1 | U | 6.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,1-Dichloroethene | 0.56 | U | 0.56 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| **Acetone** | **290** | **D** | 48 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Isopropyl alcohol | 49 | U | 49 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Carbon disulfide | 6.2 | U | 6.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 3-Chloropropene | 6.3 | U | 6.3 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Methylene Chloride | 6.9 | U | 6.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| tert-Butyl alcohol | 61 | U | 61 | | ug/m3 | | | 12/06/18 22:33 | 4 |

**Client Sample ID: IA-5_20181120**
**Date Collected: 11/20/18 12:58**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-6**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 2.9 | U | 2.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| trans-1,2-Dichloroethene | 3.2 | U | 3.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| n-Hexane | 2.8 | U | 2.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,1-Dichloroethane | 3.2 | U | 3.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| **Methyl Ethyl Ketone (2-Butanone)** | **9.7** | **D** | 5.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| cis-1,2-Dichloroethene | 0.80 | U | 0.80 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Chloroform | 3.9 | U | 3.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Tetrahydrofuran | 59 | U | 59 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,1,1-Trichloroethane | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Cyclohexane | 2.8 | U | 2.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Carbon tetrachloride | 0.88 | U | 0.88 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 2,2,4-Trimethylpentane | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Benzene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2-Dichloroethane | 3.2 | U | 3.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| n-Heptane | 3.3 | U | 3.3 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Trichloroethene | 0.75 | U | 0.75 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Methyl methacrylate | 8.2 | U | 8.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2-Dichloropropane | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,4-Dioxane | 72 | U | 72 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Bromodichloromethane | 5.4 | U | 5.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| cis-1,3-Dichloropropene | 3.6 | U | 3.6 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 8.2 | U | 8.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Toluene | 3.0 | U | 3.0 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| trans-1,3-Dichloropropene | 3.6 | U | 3.6 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,1,2-Trichloroethane | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Tetrachloroethene | 5.4 | U | 5.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Methyl Butyl Ketone (2-Hexanone) | 8.2 | U | 8.2 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Dibromochloromethane | 6.8 | U | 6.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2-Dibromoethane | 6.1 | U | 6.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Chlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| **Ethylbenzene** | **5.4** | **D** | 3.5 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| **m,p-Xylene** | **27** | **D** | 8.7 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| **o-Xylene** | **9.0** | **D** | 3.5 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Styrene | 3.4 | U | 3.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Bromoform | 8.3 | U | 8.3 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Cumene | 3.9 | U | 3.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,1,2,2-Tetrachloroethane | 5.5 | U | 5.5 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| n-Propylbenzene | 3.9 | U | 3.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 4-Ethyltoluene | 3.9 | U | 3.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,3,5-Trimethylbenzene | 3.9 | U | 3.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 2-Chlorotoluene | 4.1 | U | 4.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| tert-Butylbenzene | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2,4-Trimethylbenzene | 3.9 | U | 3.9 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| sec-Butylbenzene | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 4-Isopropyltoluene | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,3-Dichlorobenzene | 4.8 | U | 4.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,4-Dichlorobenzene | 4.8 | U | 4.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Benzyl chloride | 4.1 | U | 4.1 | | ug/m3 | | | 12/06/18 22:33 | 4 |

## Client Sample ID: IA-5_20181120

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2-Dichlorobenzene | 4.8 | U | 4.8 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| 1,2,4-Trichlorobenzene | 15 | U | 15 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Hexachlorobutadiene | 8.5 | U | 8.5 | | ug/m3 | | | 12/06/18 22:33 | 4 |
| Naphthalene | 10 | U | 10 | | ug/m3 | | | 12/06/18 22:33 | 4 |

## Client Sample ID: MP-1_20181120

**Lab Sample ID: 200-46353-7**

**Date Collected: 11/20/18 15:15**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Chlorodifluoromethane | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,2-Dichlorotetrafluoroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Chloromethane | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| n-Butane | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Vinyl chloride | 3.9 | U | 3.9 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,3-Butadiene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Bromomethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Chloroethane | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Bromoethene(Vinyl Bromide) | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Trichlorofluoromethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,1-Dichloroethene | 1.8 | U | 1.8 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Acetone | 250 | U | 250 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Isopropyl alcohol | 250 | U | 250 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Carbon disulfide | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 3-Chloropropene | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Methylene Chloride | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| tert-Butyl alcohol | 250 | U | 250 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Methyl tert-butyl ether | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| trans-1,2-Dichloroethene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| n-Hexane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,1-Dichloroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Methyl Ethyl Ketone (2-Butanone) | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| cis-1,2-Dichloroethene | 2.5 | U | 2.5 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| **Chloroform** | **62** | | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Tetrahydrofuran | 250 | U | 250 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,1,1-Trichloroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Cyclohexane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Carbon tetrachloride | 1.8 | U | 1.8 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 2,2,4-Trimethylpentane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Benzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,2-Dichloroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| n-Heptane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Trichloroethene | 1.8 | U | 1.8 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Methyl methacrylate | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |

**Client Sample ID: MP-1_20181120**
**Date Collected: 11/20/18 15:15**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-7**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,4-Dioxane | 250 | U | 250 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Bromodichloromethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| cis-1,3-Dichloropropene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Toluene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| trans-1,3-Dichloropropene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,1,2-Trichloroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Tetrachloroethene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Methyl Butyl Ketone (2-Hexanone) | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Dibromochloromethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,2-Dibromoethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Chlorobenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Ethylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| m,p-Xylene | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| o-Xylene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Styrene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Bromoform | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Cumene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| n-Propylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 4-Ethyltoluene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,3,5-Trimethylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 2-Chlorotoluene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| tert-Butylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,2,4-Trimethylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| sec-Butylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 4-Isopropyltoluene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,3-Dichlorobenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,4-Dichlorobenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Benzyl chloride | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| n-Butylbenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,2-Dichlorobenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| 1,2,4-Trichlorobenzene | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Hexachlorobutadiene | 10 | U | 10 | | ppb v/v | | | 12/06/18 08:32 | 50 |
| Naphthalene | 25 | U | 25 | | ppb v/v | | | 12/06/18 08:32 | 50 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 120 | U | 120 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Chlorodifluoromethane | 88 | U | 88 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2-Dichlorotetrafluoroethane | 70 | U | 70 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Chloromethane | 52 | U | 52 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| n-Butane | 59 | U | 59 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Vinyl chloride | 10 | U | 10 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,3-Butadiene | 22 | U | 22 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Bromomethane | 39 | U | 39 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Chloroethane | 66 | U | 66 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Bromoethene(Vinyl Bromide) | 44 | U | 44 | | ug/m3 | | | 12/06/18 08:32 | 50 |

**Client Sample ID: MP-1_20181120**
**Date Collected: 11/20/18 15:15**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-7**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | 56 | U | 56 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 77 | U | 77 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,1-Dichloroethene | 7.0 | U | 7.0 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Acetone | 590 | U | 590 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Isopropyl alcohol | 610 | U | 610 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Carbon disulfide | 78 | U | 78 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 3-Chloropropene | 78 | U | 78 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Methylene Chloride | 87 | U | 87 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| tert-Butyl alcohol | 760 | U | 760 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Methyl tert-butyl ether | 36 | U | 36 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| trans-1,2-Dichloroethene | 40 | U | 40 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| n-Hexane | 35 | U | 35 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,1-Dichloroethane | 40 | U | 40 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Methyl Ethyl Ketone (2-Butanone) | 74 | U | 74 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| cis-1,2-Dichloroethene | 10 | U | 10 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| **Chloroform** | **300** | | 49 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Tetrahydrofuran | 740 | U | 740 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,1,1-Trichloroethane | 55 | U | 55 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Cyclohexane | 34 | U | 34 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Carbon tetrachloride | 11 | U | 11 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 2,2,4-Trimethylpentane | 47 | U | 47 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Benzene | 32 | U | 32 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2-Dichloroethane | 40 | U | 40 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| n-Heptane | 41 | U | 41 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Trichloroethene | 9.4 | U | 9.4 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Methyl methacrylate | 100 | U | 100 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2-Dichloropropane | 46 | U | 46 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,4-Dioxane | 900 | U | 900 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Bromodichloromethane | 67 | U | 67 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| cis-1,3-Dichloropropene | 45 | U | 45 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100 | U | 100 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Toluene | 38 | U | 38 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| trans-1,3-Dichloropropene | 45 | U | 45 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,1,2-Trichloroethane | 55 | U | 55 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Tetrachloroethene | 68 | U | 68 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Methyl Butyl Ketone (2-Hexanone) | 100 | U | 100 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Dibromochloromethane | 85 | U | 85 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2-Dibromoethane | 77 | U | 77 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Chlorobenzene | 46 | U | 46 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Ethylbenzene | 43 | U | 43 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| m,p-Xylene | 110 | U | 110 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| o-Xylene | 43 | U | 43 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Styrene | 43 | U | 43 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Bromoform | 100 | U | 100 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Cumene | 49 | U | 49 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,1,2,2-Tetrachloroethane | 69 | U | 69 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| n-Propylbenzene | 49 | U | 49 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 4-Ethyltoluene | 49 | U | 49 | | ug/m3 | | | 12/06/18 08:32 | 50 |

## Client Sample ID: MP-1_20181120

**Lab Sample ID: 200-46353-7**

**Date Collected: 11/20/18 15:15**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 49 | U | 49 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 2-Chlorotoluene | 52 | U | 52 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| tert-Butylbenzene | 55 | U | 55 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2,4-Trimethylbenzene | 49 | U | 49 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| sec-Butylbenzene | 55 | U | 55 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 4-Isopropyltoluene | 55 | U | 55 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,3-Dichlorobenzene | 60 | U | 60 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,4-Dichlorobenzene | 60 | U | 60 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Benzyl chloride | 52 | U | 52 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| n-Butylbenzene | 55 | U | 55 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2-Dichlorobenzene | 60 | U | 60 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| 1,2,4-Trichlorobenzene | 190 | U | 190 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Hexachlorobutadiene | 110 | U | 110 | | ug/m3 | | | 12/06/18 08:32 | 50 |
| Naphthalene | 130 | U | 130 | | ug/m3 | | | 12/06/18 08:32 | 50 |

## Client Sample ID: MP-2_20181120

**Lab Sample ID: 200-46353-8**

**Date Collected: 11/20/18 12:59**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Chlorodifluoromethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2-Dichlorotetrafluoroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Chloromethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| n-Butane | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Vinyl chloride | 1.6 | U | 1.6 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,3-Butadiene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Bromomethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Chloroethane | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Bromoethene(Vinyl Bromide) | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Trichlorofluoromethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,1-Dichloroethene | 0.70 | U | 0.70 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Acetone | 100 | U | 100 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Isopropyl alcohol | 100 | U | 100 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Carbon disulfide | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 3-Chloropropene | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Methylene Chloride | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| tert-Butyl alcohol | 100 | U | 100 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Methyl tert-butyl ether | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| trans-1,2-Dichloroethene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| n-Hexane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,1-Dichloroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Methyl Ethyl Ketone (2-Butanone) | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Chloroform | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Tetrahydrofuran | 100 | U | 100 | | ppb v/v | | | 12/06/18 09:23 | 20 |

**Client Sample ID: MP-2_20181120**
**Date Collected: 11/20/18 12:59**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-8**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Cyclohexane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Carbon tetrachloride | 0.70 | U | 0.70 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 2,2,4-Trimethylpentane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Benzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2-Dichloroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| **n-Heptane** | **4.2** | | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Trichloroethene | 0.70 | U | 0.70 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Methyl methacrylate | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2-Dichloropropane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,4-Dioxane | 100 | U | 100 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Bromodichloromethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| cis-1,3-Dichloropropene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Toluene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| trans-1,3-Dichloropropene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,1,2-Trichloroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Tetrachloroethene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Methyl Butyl Ketone (2-Hexanone) | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Dibromochloromethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2-Dibromoethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Chlorobenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Ethylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| m,p-Xylene | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| o-Xylene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Styrene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Bromoform | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Cumene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,1,2,2-Tetrachloroethane | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| n-Propylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 4-Ethyltoluene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,3,5-Trimethylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 2-Chlorotoluene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| tert-Butylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2,4-Trimethylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| sec-Butylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 4-Isopropyltoluene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,3-Dichlorobenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,4-Dichlorobenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Benzyl chloride | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| n-Butylbenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2-Dichlorobenzene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Hexachlorobutadiene | 4.0 | U | 4.0 | | ppb v/v | | | 12/06/18 09:23 | 20 |
| Naphthalene | 10 | U | 10 | | ppb v/v | | | 12/06/18 09:23 | 20 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | U | 49 | | ug/m3 | | | 12/06/18 09:23 | 20 |

**Client Sample ID: MP-2_20181120**
**Date Collected: 11/20/18 12:59**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-8**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 35 | U | 35 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2-Dichlorotetrafluoroethane | 28 | U | 28 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Chloromethane | 21 | U | 21 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| n-Butane | 24 | U | 24 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Vinyl chloride | 4.0 | U | 4.0 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,3-Butadiene | 8.8 | U | 8.8 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Bromomethane | 16 | U | 16 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Chloroethane | 26 | U | 26 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Bromoethene(Vinyl Bromide) | 17 | U | 17 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Trichlorofluoromethane | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 31 | U | 31 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,1-Dichloroethene | 2.8 | U | 2.8 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Acetone | 240 | U | 240 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Isopropyl alcohol | 250 | U | 250 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Carbon disulfide | 31 | U | 31 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 3-Chloropropene | 31 | U | 31 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Methylene Chloride | 35 | U | 35 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| tert-Butyl alcohol | 300 | U | 300 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Methyl tert-butyl ether | 14 | U | 14 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| trans-1,2-Dichloroethene | 16 | U | 16 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| n-Hexane | 14 | U | 14 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,1-Dichloroethane | 16 | U | 16 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Methyl Ethyl Ketone (2-Butanone) | 29 | U | 29 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| cis-1,2-Dichloroethene | 4.0 | U | 4.0 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Chloroform | 20 | U | 20 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Tetrahydrofuran | 290 | U | 290 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,1,1-Trichloroethane | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Cyclohexane | 14 | U | 14 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Carbon tetrachloride | 4.4 | U | 4.4 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 2,2,4-Trimethylpentane | 19 | U | 19 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Benzene | 13 | U | 13 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2-Dichloroethane | 16 | U | 16 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| **n-Heptane** | **17** | | 16 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Trichloroethene | 3.8 | U | 3.8 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Methyl methacrylate | 41 | U | 41 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2-Dichloropropane | 18 | U | 18 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,4-Dioxane | 360 | U | 360 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Bromodichloromethane | 27 | U | 27 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| cis-1,3-Dichloropropene | 18 | U | 18 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41 | U | 41 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Toluene | 15 | U | 15 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| trans-1,3-Dichloropropene | 18 | U | 18 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,1,2-Trichloroethane | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Tetrachloroethene | 27 | U | 27 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | U | 41 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Dibromochloromethane | 34 | U | 34 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2-Dibromoethane | 31 | U | 31 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Chlorobenzene | 18 | U | 18 | | ug/m3 | | | 12/06/18 09:23 | 20 |

## Client Sample ID: MP-2_20181120

**Lab Sample ID: 200-46353-8**

**Date Collected: 11/20/18 12:59**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 17 | U | 17 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| m,p-Xylene | 43 | U | 43 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| o-Xylene | 17 | U | 17 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Styrene | 17 | U | 17 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Bromoform | 41 | U | 41 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Cumene | 20 | U | 20 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,1,2,2-Tetrachloroethane | 27 | U | 27 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| n-Propylbenzene | 20 | U | 20 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 4-Ethyltoluene | 20 | U | 20 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,3,5-Trimethylbenzene | 20 | U | 20 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 2-Chlorotoluene | 21 | U | 21 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| tert-Butylbenzene | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2,4-Trimethylbenzene | 20 | U | 20 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| sec-Butylbenzene | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 4-Isopropyltoluene | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,3-Dichlorobenzene | 24 | U | 24 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,4-Dichlorobenzene | 24 | U | 24 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Benzyl chloride | 21 | U | 21 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| n-Butylbenzene | 22 | U | 22 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2-Dichlorobenzene | 24 | U | 24 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| 1,2,4-Trichlorobenzene | 74 | U | 74 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Hexachlorobutadiene | 43 | U | 43 | | ug/m3 | | | 12/06/18 09:23 | 20 |
| Naphthalene | 52 | U | 52 | | ug/m3 | | | 12/06/18 09:23 | 20 |

## Client Sample ID: MP-3_20181120

**Lab Sample ID: 200-46353-9**

**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.86** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Chlorodifluoromethane** | **0.76** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Chloromethane** | **0.63** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **n-Butane** | **2.2** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Trichlorofluoromethane** | **2.5** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Acetone** | **34** | | 5.0 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |

**Client Sample ID: MP-3_20181120**
**Date Collected: 11/20/18 13:00**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-9**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **n-Hexane** | **0.99** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **1.6** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Chloroform** | **0.99** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Cyclohexane** | **0.80** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Carbon tetrachloride** | **0.053** | | 0.035 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Benzene** | **0.24** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **n-Heptane** | **4.4** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Trichloroethene** | **0.23** | | 0.035 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Toluene** | **3.6** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Tetrachloroethene** | **1.7** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **1.3** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **Ethylbenzene** | **0.38** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **m,p-Xylene** | **1.1** | | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **o-Xylene** | **0.47** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| **1,2,4-Trimethylbenzene** | **0.40** | | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |

## Client Sample ID: MP-3_20181120

**Date Collected: 11/20/18 13:00**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-9

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 10:13 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 10:13 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **4.3** | | 2.5 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Chlorodifluoromethane** | **2.7** | | 1.8 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Chloromethane** | **1.3** | | 1.0 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **n-Butane** | **5.1** | | 1.2 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Trichlorofluoromethane** | **14** | | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Acetone** | **82** | | 12 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **n-Hexane** | **3.5** | | 0.70 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **4.6** | | 1.5 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Chloroform** | **4.8** | | 0.98 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Cyclohexane** | **2.7** | | 0.69 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Carbon tetrachloride** | **0.33** | | 0.22 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Benzene** | **0.76** | | 0.64 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **n-Heptane** | **18** | | 0.82 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Trichloroethene** | **1.2** | | 0.19 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 10:13 | 1 |

## Client Sample ID: MP-3_20181120

**Lab Sample ID: 200-46353-9**

**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Toluene** | **14** | | 0.75 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Tetrachloroethene** | **12** | | 1.4 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **5.5** | | 2.0 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **Ethylbenzene** | **1.6** | | 0.87 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **m,p-Xylene** | **5.0** | | 2.2 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **o-Xylene** | **2.0** | | 0.87 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| **1,2,4-Trimethylbenzene** | **2.0** | | 0.98 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 10:13 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 10:13 | 1 |

## Client Sample ID: MP-4_20181120

**Lab Sample ID: 200-46353-10**

**Date Collected: 11/20/18 07:45**
**Matrix: Air**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.58** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Chlorodifluoromethane** | **0.53** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Chloromethane** | **0.54** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **n-Butane** | **3.6** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |

**Client Sample ID: MP-4_20181120**
**Date Collected: 11/20/18 07:45**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-10**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Trichlorofluoromethane** | **0.31** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Acetone** | **28** | | 5.0 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Carbon disulfide** | **1.2** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **n-Hexane** | **1.0** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **2.5** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Cyclohexane** | **0.52** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Carbon tetrachloride** | **0.079** | | 0.035 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **2,2,4-Trimethylpentane** | **0.31** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Benzene** | **0.48** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **n-Heptane** | **1.7** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Toluene** | **2.2** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Tetrachloroethene** | **0.32** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **0.78** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **Ethylbenzene** | **0.28** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **m,p-Xylene** | **0.97** | | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **o-Xylene** | **0.41** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |

**Client Sample ID: MP-4_20181120**
**Date Collected: 11/20/18 07:45**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-10**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| **1,2,4-Trimethylbenzene** | **0.29** | | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 23:23 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 23:23 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.9** | | 2.5 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Chlorodifluoromethane** | **1.9** | | 1.8 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Chloromethane** | **1.1** | | 1.0 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **n-Butane** | **8.6** | | 1.2 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Trichlorofluoromethane** | **1.7** | | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Acetone** | **66** | | 12 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Carbon disulfide** | **3.7** | | 1.6 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **n-Hexane** | **3.6** | | 0.70 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **7.5** | | 1.5 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Cyclohexane** | **1.8** | | 0.69 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Carbon tetrachloride** | **0.50** | | 0.22 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **2,2,4-Trimethylpentane** | **1.4** | | 0.93 | | ug/m3 | | | 12/06/18 23:23 | 1 |

## Client Sample ID: MP-4_20181120

**Date Collected: 11/20/18 07:45**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-10

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **1.5** | | 0.64 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **n-Heptane** | **6.8** | | 0.82 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Toluene** | **8.2** | | 0.75 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Tetrachloroethene** | **2.2** | | 1.4 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **3.2** | | 2.0 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **Ethylbenzene** | **1.2** | | 0.87 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **m,p-Xylene** | **4.2** | | 2.2 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **o-Xylene** | **1.8** | | 0.87 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| **1,2,4-Trimethylbenzene** | **1.4** | | 0.98 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 23:23 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 23:23 | 1 |

**Client Sample ID: MP-5_20181119**
**Date Collected: 11/19/18 14:50**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-11**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.62** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Chloromethane** | **1.1** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **n-Butane** | **2.1** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Trichlorofluoromethane** | **0.39** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Acetone** | **17** | | 5.0 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Carbon disulfide** | **2.4** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **n-Hexane** | **0.43** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **6.9** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Chloroform** | **0.21** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Cyclohexane** | **0.32** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Carbon tetrachloride** | **0.094** | | 0.035 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Benzene** | **0.40** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **n-Heptane** | **0.61** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **4-Methyl-2-pentanone (Methyl isobutyl ketone)** | **0.86** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Toluene** | **1.1** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Tetrachloroethene** | **0.36** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |

## Client Sample ID: MP-5_20181119

**Date Collected: 11/19/18 14:50**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-11

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **Ethylbenzene** | **0.34** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **m,p-Xylene** | **0.76** | | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| **o-Xylene** | **0.22** | | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 00:13 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 00:13 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **3.1** | | 2.5 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Chloromethane** | **2.3** | | 1.0 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **n-Butane** | **5.1** | | 1.2 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Trichlorofluoromethane** | **2.2** | | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Acetone** | **41** | | 12 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Carbon disulfide** | **7.5** | | 1.6 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **n-Hexane** | **1.5** | | 0.70 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/07/18 00:13 | 1 |

## Client Sample ID: MP-5_20181119

**Date Collected: 11/19/18 14:50**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-46353-11

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Methyl Ethyl Ketone (2-Butanone)** | **20** | | 1.5 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Chloroform** | **1.0** | | 0.98 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Cyclohexane** | **1.1** | | 0.69 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Carbon tetrachloride** | **0.59** | | 0.22 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Benzene** | **1.3** | | 0.64 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **n-Heptane** | **2.5** | | 0.82 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **4-Methyl-2-pentanone (Methyl isobutyl ketone)** | **3.5** | | 2.0 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Toluene** | **4.3** | | 0.75 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Tetrachloroethene** | **2.4** | | 1.4 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **Ethylbenzene** | **1.5** | | 0.87 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **m,p-Xylene** | **3.3** | | 2.2 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| **o-Xylene** | **0.94** | | 0.87 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/07/18 00:13 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/07/18 00:13 | 1 |

**Client Sample ID: MP-5_20181119**
**Date Collected: 11/19/18 14:50**
**Date Received: 11/23/18 13:10**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-46353-11**
**Matrix: Air**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/07/18 00:13 | 1 |

# Default Detection Limits

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | RL | MDL | Units | Method |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.20 | 0.068 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | 1.1 | 0.37 | ug/m3 | TO-15 |
| 1,1,2,2-Tetrachloroethane | 0.20 | 0.076 | ppb v/v | TO-15 |
| 1,1,2,2-Tetrachloroethane | 1.4 | 0.52 | ug/m3 | TO-15 |
| 1,1,2-Trichloroethane | 0.20 | 0.078 | ppb v/v | TO-15 |
| 1,1,2-Trichloroethane | 1.1 | 0.43 | ug/m3 | TO-15 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | 0.031 | ppb v/v | TO-15 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | 0.24 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | 0.20 | 0.026 | ppb v/v | TO-15 |
| 1,1-Dichloroethane | 0.81 | 0.11 | ug/m3 | TO-15 |
| 1,1-Dichloroethene | 0.035 | 0.034 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | 0.14 | 0.13 | ug/m3 | TO-15 |
| 1,2,4-Trichlorobenzene | 0.50 | 0.24 | ppb v/v | TO-15 |
| 1,2,4-Trichlorobenzene | 3.7 | 1.8 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | 0.20 | 0.080 | ppb v/v | TO-15 |
| 1,2,4-Trimethylbenzene | 0.98 | 0.39 | ug/m3 | TO-15 |
| 1,2-Dibromoethane | 0.20 | 0.069 | ppb v/v | TO-15 |
| 1,2-Dibromoethane | 1.5 | 0.53 | ug/m3 | TO-15 |
| 1,2-Dichlorobenzene | 0.20 | 0.071 | ppb v/v | TO-15 |
| 1,2-Dichlorobenzene | 1.2 | 0.43 | ug/m3 | TO-15 |
| 1,2-Dichloroethane | 0.20 | 0.063 | ppb v/v | TO-15 |
| 1,2-Dichloroethane | 0.81 | 0.25 | ug/m3 | TO-15 |
| 1,2-Dichloropropane | 0.20 | 0.12 | ppb v/v | TO-15 |
| 1,2-Dichloropropane | 0.92 | 0.55 | ug/m3 | TO-15 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | 0.068 | ppb v/v | TO-15 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | 0.48 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | 0.20 | 0.058 | ppb v/v | TO-15 |
| 1,3,5-Trimethylbenzene | 0.98 | 0.29 | ug/m3 | TO-15 |
| 1,3-Butadiene | 0.20 | 0.065 | ppb v/v | TO-15 |
| 1,3-Butadiene | 0.44 | 0.14 | ug/m3 | TO-15 |
| 1,3-Dichlorobenzene | 0.20 | 0.082 | ppb v/v | TO-15 |
| 1,3-Dichlorobenzene | 1.2 | 0.49 | ug/m3 | TO-15 |
| 1,4-Dichlorobenzene | 0.20 | 0.065 | ppb v/v | TO-15 |
| 1,4-Dichlorobenzene | 1.2 | 0.39 | ug/m3 | TO-15 |
| 1,4-Dioxane | 5.0 | 1.3 | ppb v/v | TO-15 |
| 1,4-Dioxane | 18 | 4.7 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | 0.20 | 0.088 | ppb v/v | TO-15 |
| 2,2,4-Trimethylpentane | 0.93 | 0.41 | ug/m3 | TO-15 |
| 2-Chlorotoluene | 0.20 | 0.071 | ppb v/v | TO-15 |
| 2-Chlorotoluene | 1.0 | 0.37 | ug/m3 | TO-15 |
| 3-Chloropropene | 0.50 | 0.27 | ppb v/v | TO-15 |
| 3-Chloropropene | 1.6 | 0.85 | ug/m3 | TO-15 |
| 4-Ethyltoluene | 0.20 | 0.069 | ppb v/v | TO-15 |
| 4-Ethyltoluene | 0.98 | 0.34 | ug/m3 | TO-15 |
| 4-Isopropyltoluene | 0.20 | 0.075 | ppb v/v | TO-15 |
| 4-Isopropyltoluene | 1.1 | 0.41 | ug/m3 | TO-15 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | 0.36 | ppb v/v | TO-15 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | 1.5 | ug/m3 | TO-15 |
| Acetone | 5.0 | 2.6 | ppb v/v | TO-15 |
| Acetone | 12 | 6.2 | ug/m3 | TO-15 |
| Benzene | 0.20 | 0.071 | ppb v/v | TO-15 |
| Benzene | 0.64 | 0.23 | ug/m3 | TO-15 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | RL | MDL | Units | Method |
|---|---|---|---|---|
| Benzyl chloride | 0.20 | 0.12 | ppb v/v | TO-15 |
| Benzyl chloride | 1.0 | 0.62 | ug/m3 | TO-15 |
| Bromodichloromethane | 0.20 | 0.094 | ppb v/v | TO-15 |
| Bromodichloromethane | 1.3 | 0.63 | ug/m3 | TO-15 |
| Bromoethene(Vinyl Bromide) | 0.20 | 0.056 | ppb v/v | TO-15 |
| Bromoethene(Vinyl Bromide) | 0.87 | 0.24 | ug/m3 | TO-15 |
| Bromoform | 0.20 | 0.086 | ppb v/v | TO-15 |
| Bromoform | 2.1 | 0.89 | ug/m3 | TO-15 |
| Bromomethane | 0.20 | 0.062 | ppb v/v | TO-15 |
| Bromomethane | 0.78 | 0.24 | ug/m3 | TO-15 |
| Carbon disulfide | 0.50 | 0.12 | ppb v/v | TO-15 |
| Carbon disulfide | 1.6 | 0.37 | ug/m3 | TO-15 |
| Carbon tetrachloride | 0.035 | 0.024 | ppb v/v | TO-15 |
| Carbon tetrachloride | 0.22 | 0.15 | ug/m3 | TO-15 |
| Chlorobenzene | 0.20 | 0.040 | ppb v/v | TO-15 |
| Chlorobenzene | 0.92 | 0.18 | ug/m3 | TO-15 |
| Chlorodifluoromethane | 0.50 | 0.26 | ppb v/v | TO-15 |
| Chlorodifluoromethane | 1.8 | 0.92 | ug/m3 | TO-15 |
| Chloroethane | 0.50 | 0.21 | ppb v/v | TO-15 |
| Chloroethane | 1.3 | 0.55 | ug/m3 | TO-15 |
| Chloroform | 0.20 | 0.052 | ppb v/v | TO-15 |
| Chloroform | 0.98 | 0.25 | ug/m3 | TO-15 |
| Chloromethane | 0.50 | 0.25 | ppb v/v | TO-15 |
| Chloromethane | 1.0 | 0.52 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethene | 0.050 | 0.037 | ppb v/v | TO-15 |
| cis-1,2-Dichloroethene | 0.20 | 0.15 | ug/m3 | TO-15 |
| cis-1,3-Dichloropropene | 0.20 | 0.098 | ppb v/v | TO-15 |
| cis-1,3-Dichloropropene | 0.91 | 0.44 | ug/m3 | TO-15 |
| Cumene | 0.20 | 0.059 | ppb v/v | TO-15 |
| Cumene | 0.98 | 0.29 | ug/m3 | TO-15 |
| Cyclohexane | 0.20 | 0.063 | ppb v/v | TO-15 |
| Cyclohexane | 0.69 | 0.22 | ug/m3 | TO-15 |
| Dibromochloromethane | 0.20 | 0.071 | ppb v/v | TO-15 |
| Dibromochloromethane | 1.7 | 0.60 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | 0.50 | 0.20 | ppb v/v | TO-15 |
| Dichlorodifluoromethane | 2.5 | 0.99 | ug/m3 | TO-15 |
| Ethylbenzene | 0.20 | 0.073 | ppb v/v | TO-15 |
| Ethylbenzene | 0.87 | 0.32 | ug/m3 | TO-15 |
| Hexachlorobutadiene | 0.20 | 0.082 | ppb v/v | TO-15 |
| Hexachlorobutadiene | 2.1 | 0.87 | ug/m3 | TO-15 |
| Isopropyl alcohol | 5.0 | 1.8 | ppb v/v | TO-15 |
| Isopropyl alcohol | 12 | 4.4 | ug/m3 | TO-15 |
| m,p-Xylene | 0.50 | 0.070 | ppb v/v | TO-15 |
| m,p-Xylene | 2.2 | 0.30 | ug/m3 | TO-15 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | 0.42 | ppb v/v | TO-15 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | 1.7 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | 0.20 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | 0.59 | ug/m3 | TO-15 |
| Methyl methacrylate | 0.50 | 0.22 | ppb v/v | TO-15 |
| Methyl methacrylate | 2.0 | 0.90 | ug/m3 | TO-15 |
| Methyl tert-butyl ether | 0.20 | 0.061 | ppb v/v | TO-15 |
| Methyl tert-butyl ether | 0.72 | 0.22 | ug/m3 | TO-15 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | RL | MDL | Units | Method |
|---|---|---|---|---|
| Methylene Chloride | 0.50 | 0.20 | ppb v/v | TO-15 |
| Methylene Chloride | 1.7 | 0.69 | ug/m3 | TO-15 |
| Naphthalene | 0.50 | 0.31 | ppb v/v | TO-15 |
| Naphthalene | 2.6 | 1.6 | ug/m3 | TO-15 |
| n-Butane | 0.50 | 0.31 | ppb v/v | TO-15 |
| n-Butane | 1.2 | 0.74 | ug/m3 | TO-15 |
| n-Butylbenzene | 0.20 | 0.080 | ppb v/v | TO-15 |
| n-Butylbenzene | 1.1 | 0.44 | ug/m3 | TO-15 |
| n-Heptane | 0.20 | 0.14 | ppb v/v | TO-15 |
| n-Heptane | 0.82 | 0.57 | ug/m3 | TO-15 |
| n-Hexane | 0.20 | 0.16 | ppb v/v | TO-15 |
| n-Hexane | 0.70 | 0.56 | ug/m3 | TO-15 |
| n-Propylbenzene | 0.20 | 0.069 | ppb v/v | TO-15 |
| n-Propylbenzene | 0.98 | 0.34 | ug/m3 | TO-15 |
| o-Xylene | 0.20 | 0.071 | ppb v/v | TO-15 |
| o-Xylene | 0.87 | 0.31 | ug/m3 | TO-15 |
| sec-Butylbenzene | 0.20 | 0.066 | ppb v/v | TO-15 |
| sec-Butylbenzene | 1.1 | 0.36 | ug/m3 | TO-15 |
| Styrene | 0.20 | 0.086 | ppb v/v | TO-15 |
| Styrene | 0.85 | 0.37 | ug/m3 | TO-15 |
| tert-Butyl alcohol | 5.0 | 1.5 | ppb v/v | TO-15 |
| tert-Butyl alcohol | 15 | 4.5 | ug/m3 | TO-15 |
| tert-Butylbenzene | 0.20 | 0.058 | ppb v/v | TO-15 |
| tert-Butylbenzene | 1.1 | 0.32 | ug/m3 | TO-15 |
| Tetrachloroethene | 0.20 | 0.029 | ppb v/v | TO-15 |
| Tetrachloroethene | 1.4 | 0.20 | ug/m3 | TO-15 |
| Tetrahydrofuran | 5.0 | 2.6 | ppb v/v | TO-15 |
| Tetrahydrofuran | 15 | 7.7 | ug/m3 | TO-15 |
| Toluene | 0.20 | 0.069 | ppb v/v | TO-15 |
| Toluene | 0.75 | 0.26 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethene | 0.20 | 0.074 | ppb v/v | TO-15 |
| trans-1,2-Dichloroethene | 0.79 | 0.29 | ug/m3 | TO-15 |
| trans-1,3-Dichloropropene | 0.20 | 0.12 | ppb v/v | TO-15 |
| trans-1,3-Dichloropropene | 0.91 | 0.54 | ug/m3 | TO-15 |
| Trichloroethene | 0.035 | 0.030 | ppb v/v | TO-15 |
| Trichloroethene | 0.19 | 0.16 | ug/m3 | TO-15 |
| Trichlorofluoromethane | 0.20 | 0.062 | ppb v/v | TO-15 |
| Trichlorofluoromethane | 1.1 | 0.35 | ug/m3 | TO-15 |
| Vinyl chloride | 0.078 | 0.041 | ppb v/v | TO-15 |
| Vinyl chloride | 0.20 | 0.10 | ug/m3 | TO-15 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-137819/5**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Chloromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| n-Butane | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Trichlorofluoromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Acetone | 5.0 | U | 5.0 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| n-Hexane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Carbon tetrachloride | 0.035 | U | 0.035 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Benzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| n-Heptane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Toluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137819/5**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| o-Xylene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/05/18 17:29 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/05/18 17:29 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | U | 2.5 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Chloromethane | 1.0 | U | 1.0 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| n-Butane | 1.2 | U | 1.2 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Trichlorofluoromethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Acetone | 12 | U | 12 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/05/18 17:29 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137819/5**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.70 | U | 0.70 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Carbon tetrachloride | 0.22 | U | 0.22 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Benzene | 0.64 | U | 0.64 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| n-Heptane | 0.82 | U | 0.82 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Toluene | 0.75 | U | 0.75 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| o-Xylene | 0.87 | U | 0.87 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137819/5**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/05/18 17:29 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/05/18 17:29 | 1 |

**Lab Sample ID: LCS 200-137819/6**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 11.4 | | ppb v/v | | 114 | 68 - 128 |
| Chlorodifluoromethane | 10.0 | 11.0 | | ppb v/v | | 110 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 11.1 | | ppb v/v | | 111 | 78 - 138 |
| Chloromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 57 - 126 |
| n-Butane | 10.0 | 10.3 | | ppb v/v | | 103 | 56 - 130 |
| Vinyl chloride | 10.0 | 10.1 | | ppb v/v | | 101 | 62 - 125 |
| 1,3-Butadiene | 10.0 | 10.3 | | ppb v/v | | 103 | 59 - 125 |
| Bromomethane | 10.0 | 10.7 | | ppb v/v | | 107 | 68 - 128 |
| Chloroethane | 10.0 | 10.8 | | ppb v/v | | 108 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.7 | | ppb v/v | | 107 | 67 - 127 |
| Trichlorofluoromethane | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 11.1 | | ppb v/v | | 111 | 68 - 128 |
| 1,1-Dichloroethene | 10.0 | 10.6 | | ppb v/v | | 106 | 67 - 127 |
| Acetone | 10.0 | 11.9 | | ppb v/v | | 119 | 64 - 136 |
| Isopropyl alcohol | 10.0 | 10.3 | | ppb v/v | | 103 | 55 - 124 |
| Carbon disulfide | 10.0 | 10.7 | | ppb v/v | | 107 | 81 - 141 |
| 3-Chloropropene | 10.0 | 10.9 | | ppb v/v | | 109 | 53 - 133 |
| Methylene Chloride | 10.0 | 10.9 | | ppb v/v | | 109 | 62 - 122 |
| tert-Butyl alcohol | 10.0 | 10.2 | | ppb v/v | | 102 | 64 - 124 |
| Methyl tert-butyl ether | 10.0 | 11.5 | | ppb v/v | | 115 | 67 - 127 |
| trans-1,2-Dichloroethene | 10.0 | 10.8 | | ppb v/v | | 108 | 72 - 132 |
| n-Hexane | 10.0 | 11.0 | | ppb v/v | | 110 | 71 - 131 |
| 1,1-Dichloroethane | 10.0 | 10.7 | | ppb v/v | | 107 | 66 - 126 |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 10.7 | | ppb v/v | | 107 | 62 - 122 |
| cis-1,2-Dichloroethene | 10.0 | 11.8 | | ppb v/v | | 118 | 67 - 127 |
| Chloroform | 10.0 | 11.2 | | ppb v/v | | 112 | 69 - 129 |
| Tetrahydrofuran | 10.0 | 9.40 | | ppb v/v | | 94 | 61 - 136 |
| 1,1,1-Trichloroethane | 10.0 | 9.75 | | ppb v/v | | 98 | 70 - 130 |
| Cyclohexane | 10.0 | 9.31 | | ppb v/v | | 93 | 69 - 129 |
| Carbon tetrachloride | 10.0 | 10.1 | | ppb v/v | | 101 | 62 - 143 |
| 2,2,4-Trimethylpentane | 10.0 | 9.45 | | ppb v/v | | 94 | 67 - 127 |
| Benzene | 10.0 | 10.6 | | ppb v/v | | 106 | 67 - 127 |
| 1,2-Dichloroethane | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 132 |
| n-Heptane | 10.0 | 9.99 | | ppb v/v | | 100 | 62 - 130 |
| Trichloroethene | 10.0 | 9.29 | | ppb v/v | | 93 | 68 - 128 |
| Methyl methacrylate | 10.0 | 9.83 | | ppb v/v | | 98 | 70 - 130 |
| 1,2-Dichloropropane | 10.0 | 11.2 | | ppb v/v | | 112 | 67 - 127 |
| 1,4-Dioxane | 10.0 | 9.74 | | ppb v/v | | 97 | 66 - 132 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137819/6**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 69 - 129 |
| cis-1,3-Dichloropropene | 10.0 | 11.1 | | ppb v/v | | 111 | 70 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 8.95 | | ppb v/v | | 90 | 62 - 130 |
| Toluene | 10.0 | 12.3 | | ppb v/v | | 123 | 67 - 127 |
| trans-1,3-Dichloropropene | 10.0 | 10.6 | | ppb v/v | | 106 | 69 - 129 |
| 1,1,2-Trichloroethane | 10.0 | 11.5 | | ppb v/v | | 115 | 69 - 129 |
| Tetrachloroethene | 10.0 | 11.5 | | ppb v/v | | 115 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 9.34 | | ppb v/v | | 93 | 61 - 127 |
| Dibromochloromethane | 10.0 | 12.2 | | ppb v/v | | 122 | 66 - 130 |
| 1,2-Dibromoethane | 10.0 | 12.4 | | ppb v/v | | 124 | 70 - 130 |
| Chlorobenzene | 10.0 | 12.1 | | ppb v/v | | 121 | 68 - 128 |
| Ethylbenzene | 10.0 | 11.4 | | ppb v/v | | 114 | 68 - 128 |
| m,p-Xylene | 20.0 | 22.7 | | ppb v/v | | 113 | 68 - 128 |
| o-Xylene | 10.0 | 11.6 | | ppb v/v | | 116 | 67 - 127 |
| Styrene | 10.0 | 11.5 | | ppb v/v | | 115 | 68 - 128 |
| Bromoform | 10.0 | 12.8 | | ppb v/v | | 129 | 34 - 170 |
| Cumene | 10.0 | 11.5 | | ppb v/v | | 115 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.2 | | ppb v/v | | 102 | 69 - 129 |
| n-Propylbenzene | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |
| 4-Ethyltoluene | 10.0 | 11.0 | | ppb v/v | | 110 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 10.0 | 11.0 | | ppb v/v | | 110 | 65 - 125 |
| 2-Chlorotoluene | 10.0 | 11.0 | | ppb v/v | | 110 | 67 - 127 |
| tert-Butylbenzene | 10.0 | 11.1 | | ppb v/v | | 111 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 10.0 | 10.9 | | ppb v/v | | 109 | 65 - 125 |
| sec-Butylbenzene | 10.0 | 11.1 | | ppb v/v | | 111 | 66 - 126 |
| 4-Isopropyltoluene | 10.0 | 11.1 | | ppb v/v | | 111 | 67 - 129 |
| 1,3-Dichlorobenzene | 10.0 | 11.0 | | ppb v/v | | 110 | 67 - 127 |
| 1,4-Dichlorobenzene | 10.0 | 11.3 | | ppb v/v | | 113 | 66 - 126 |
| Benzyl chloride | 10.0 | 10.1 | | ppb v/v | | 101 | 54 - 135 |
| n-Butylbenzene | 10.0 | 10.7 | | ppb v/v | | 107 | 67 - 127 |
| 1,2-Dichlorobenzene | 10.0 | 10.9 | | ppb v/v | | 109 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 10.0 | 8.14 | | ppb v/v | | 81 | 59 - 126 |
| Hexachlorobutadiene | 10.0 | 8.93 | | ppb v/v | | 89 | 62 - 130 |
| Naphthalene | 10.0 | 7.46 | | ppb v/v | | 75 | 50 - 121 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 56.5 | | ug/m3 | | 114 | 68 - 128 |
| Chlorodifluoromethane | 35 | 39.1 | | ug/m3 | | 110 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 77.4 | | ug/m3 | | 111 | 78 - 138 |
| Chloromethane | 21 | 21.6 | | ug/m3 | | 105 | 57 - 126 |
| n-Butane | 24 | 24.6 | | ug/m3 | | 103 | 56 - 130 |
| Vinyl chloride | 26 | 25.7 | | ug/m3 | | 101 | 62 - 125 |
| 1,3-Butadiene | 22 | 22.9 | | ug/m3 | | 103 | 59 - 125 |
| Bromomethane | 39 | 41.6 | | ug/m3 | | 107 | 68 - 128 |
| Chloroethane | 26 | 28.4 | | ug/m3 | | 108 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 44 | 46.7 | | ug/m3 | | 107 | 67 - 127 |
| Trichlorofluoromethane | 56 | 60.7 | | ug/m3 | | 108 | 67 - 127 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137819/6**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | 77 | 85.1 | | ug/m3 | | 111 | 68 - 128 |
| 1,1-Dichloroethene | 40 | 42.2 | | ug/m3 | | 106 | 67 - 127 |
| Acetone | 24 | 28.3 | | ug/m3 | | 119 | 64 - 136 |
| Isopropyl alcohol | 25 | 25.4 | | ug/m3 | | 103 | 55 - 124 |
| Carbon disulfide | 31 | 33.4 | | ug/m3 | | 107 | 81 - 141 |
| 3-Chloropropene | 31 | 34.0 | | ug/m3 | | 109 | 53 - 133 |
| Methylene Chloride | 35 | 37.7 | | ug/m3 | | 109 | 62 - 122 |
| tert-Butyl alcohol | 30 | 30.8 | | ug/m3 | | 102 | 64 - 124 |
| Methyl tert-butyl ether | 36 | 41.5 | | ug/m3 | | 115 | 67 - 127 |
| trans-1,2-Dichloroethene | 40 | 42.8 | | ug/m3 | | 108 | 72 - 132 |
| n-Hexane | 35 | 38.9 | | ug/m3 | | 110 | 71 - 131 |
| 1,1-Dichloroethane | 40 | 43.1 | | ug/m3 | | 107 | 66 - 126 |
| Methyl Ethyl Ketone (2-Butanone) | 29 | 31.6 | | ug/m3 | | 107 | 62 - 122 |
| cis-1,2-Dichloroethene | 40 | 46.7 | | ug/m3 | | 118 | 67 - 127 |
| Chloroform | 49 | 54.6 | | ug/m3 | | 112 | 69 - 129 |
| Tetrahydrofuran | 29 | 27.7 | | ug/m3 | | 94 | 61 - 136 |
| 1,1,1-Trichloroethane | 55 | 53.2 | | ug/m3 | | 98 | 70 - 130 |
| Cyclohexane | 34 | 32.0 | | ug/m3 | | 93 | 69 - 129 |
| Carbon tetrachloride | 63 | 63.6 | | ug/m3 | | 101 | 62 - 143 |
| 2,2,4-Trimethylpentane | 47 | 44.1 | | ug/m3 | | 94 | 67 - 127 |
| Benzene | 32 | 33.7 | | ug/m3 | | 106 | 67 - 127 |
| 1,2-Dichloroethane | 40 | 41.5 | | ug/m3 | | 103 | 67 - 132 |
| n-Heptane | 41 | 41.0 | | ug/m3 | | 100 | 62 - 130 |
| Trichloroethene | 54 | 49.9 | | ug/m3 | | 93 | 68 - 128 |
| Methyl methacrylate | 41 | 40.3 | | ug/m3 | | 98 | 70 - 130 |
| 1,2-Dichloropropane | 46 | 51.7 | | ug/m3 | | 112 | 67 - 127 |
| 1,4-Dioxane | 36 | 35.1 | | ug/m3 | | 97 | 66 - 132 |
| Bromodichloromethane | 67 | 70.2 | | ug/m3 | | 105 | 69 - 129 |
| cis-1,3-Dichloropropene | 45 | 50.4 | | ug/m3 | | 111 | 70 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41 | 36.7 | | ug/m3 | | 90 | 62 - 130 |
| Toluene | 38 | 46.2 | | ug/m3 | | 123 | 67 - 127 |
| trans-1,3-Dichloropropene | 45 | 48.1 | | ug/m3 | | 106 | 69 - 129 |
| 1,1,2-Trichloroethane | 55 | 62.6 | | ug/m3 | | 115 | 69 - 129 |
| Tetrachloroethene | 68 | 78.3 | | ug/m3 | | 115 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 38.3 | | ug/m3 | | 93 | 61 - 127 |
| Dibromochloromethane | 85 | 104 | | ug/m3 | | 122 | 66 - 130 |
| 1,2-Dibromoethane | 77 | 95.1 | | ug/m3 | | 124 | 70 - 130 |
| Chlorobenzene | 46 | 55.9 | | ug/m3 | | 121 | 68 - 128 |
| Ethylbenzene | 43 | 49.3 | | ug/m3 | | 114 | 68 - 128 |
| m,p-Xylene | 87 | 98.5 | | ug/m3 | | 113 | 68 - 128 |
| o-Xylene | 43 | 50.2 | | ug/m3 | | 116 | 67 - 127 |
| Styrene | 43 | 49.0 | | ug/m3 | | 115 | 68 - 128 |
| Bromoform | 100 | 133 | | ug/m3 | | 129 | 34 - 170 |
| Cumene | 49 | 56.7 | | ug/m3 | | 115 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 70.2 | | ug/m3 | | 102 | 69 - 129 |
| n-Propylbenzene | 49 | 53.1 | | ug/m3 | | 108 | 67 - 127 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137819/6**
**Matrix: Air**
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 49 | 53.9 | | ug/m3 | | 110 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 49 | 54.0 | | ug/m3 | | 110 | 65 - 125 |
| 2-Chlorotoluene | 52 | 56.9 | | ug/m3 | | 110 | 67 - 127 |
| tert-Butylbenzene | 55 | 61.1 | | ug/m3 | | 111 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 49 | 53.6 | | ug/m3 | | 109 | 65 - 125 |
| sec-Butylbenzene | 55 | 60.8 | | ug/m3 | | 111 | 66 - 126 |
| 4-Isopropyltoluene | 55 | 61.2 | | ug/m3 | | 111 | 67 - 129 |
| 1,3-Dichlorobenzene | 60 | 66.3 | | ug/m3 | | 110 | 67 - 127 |
| 1,4-Dichlorobenzene | 60 | 67.7 | | ug/m3 | | 113 | 66 - 126 |
| Benzyl chloride | 52 | 52.5 | | ug/m3 | | 101 | 54 - 135 |
| n-Butylbenzene | 55 | 59.0 | | ug/m3 | | 107 | 67 - 127 |
| 1,2-Dichlorobenzene | 60 | 65.5 | | ug/m3 | | 109 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 74 | 60.4 | | ug/m3 | | 81 | 59 - 126 |
| Hexachlorobutadiene | 110 | 95.3 | | ug/m3 | | 89 | 62 - 130 |
| Naphthalene | 52 | 39.1 | | ug/m3 | | 75 | 50 - 121 |

**Lab Sample ID: MB 200-137867/5**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Chloromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| n-Butane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Trichlorofluoromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Acetone | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| n-Hexane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 17:33 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137867/5**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Carbon tetrachloride | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Benzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| n-Heptane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Toluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| o-Xylene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/06/18 17:33 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/06/18 17:33 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | U | 2.5 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Chloromethane | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| n-Butane | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Trichlorofluoromethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Acetone | 12 | U | 12 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| n-Hexane | 0.70 | U | 0.70 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Carbon tetrachloride | 0.22 | U | 0.22 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Benzene | 0.64 | U | 0.64 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| n-Heptane | 0.82 | U | 0.82 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Toluene | 0.75 | U | 0.75 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| o-Xylene | 0.87 | U | 0.87 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/06/18 17:33 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137867/5**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/06/18 17:33 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/06/18 17:33 | 1 |

**Lab Sample ID: LCS 200-137867/4**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 11.5 | | ppb v/v | | 115 | 68 - 128 |
| Chlorodifluoromethane | 10.0 | 10.4 | | ppb v/v | | 104 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 11.1 | | ppb v/v | | 111 | 78 - 138 |
| Chloromethane | 10.0 | 10.1 | | ppb v/v | | 101 | 57 - 126 |
| n-Butane | 10.0 | 9.76 | | ppb v/v | | 98 | 56 - 130 |
| Vinyl chloride | 10.0 | 9.84 | | ppb v/v | | 98 | 62 - 125 |
| 1,3-Butadiene | 10.0 | 9.84 | | ppb v/v | | 98 | 59 - 125 |
| Bromomethane | 10.0 | 10.3 | | ppb v/v | | 103 | 68 - 128 |
| Chloroethane | 10.0 | 9.50 | | ppb v/v | | 95 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.2 | | ppb v/v | | 103 | 67 - 127 |
| Trichlorofluoromethane | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 127 |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 10.2 | | ppb v/v | | 102 | 68 - 128 |
| 1,1-Dichloroethene | 10.0 | 9.99 | | ppb v/v | | 100 | 67 - 127 |
| Acetone | 10.0 | 9.93 | | ppb v/v | | 99 | 64 - 136 |
| Isopropyl alcohol | 10.0 | 9.76 | | ppb v/v | | 98 | 55 - 124 |
| Carbon disulfide | 10.0 | 10.4 | | ppb v/v | | 104 | 81 - 141 |
| 3-Chloropropene | 10.0 | 9.68 | | ppb v/v | | 97 | 53 - 133 |
| Methylene Chloride | 10.0 | 9.56 | | ppb v/v | | 96 | 62 - 122 |
| tert-Butyl alcohol | 10.0 | 10.0 | | ppb v/v | | 100 | 64 - 124 |
| Methyl tert-butyl ether | 10.0 | 9.79 | | ppb v/v | | 98 | 67 - 127 |
| trans-1,2-Dichloroethene | 10.0 | 9.65 | | ppb v/v | | 97 | 72 - 132 |
| n-Hexane | 10.0 | 9.81 | | ppb v/v | | 98 | 71 - 131 |
| 1,1-Dichloroethane | 10.0 | 9.39 | | ppb v/v | | 94 | 66 - 126 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137867/4**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 8.94 | | ppb v/v | | 89 | 62 - 122 |
| cis-1,2-Dichloroethene | 10.0 | 10.5 | | ppb v/v | | 105 | 67 - 127 |
| Chloroform | 10.0 | 9.97 | | ppb v/v | | 100 | 69 - 129 |
| Tetrahydrofuran | 10.0 | 8.68 | | ppb v/v | | 87 | 61 - 136 |
| 1,1,1-Trichloroethane | 10.0 | 9.93 | | ppb v/v | | 99 | 70 - 130 |
| Cyclohexane | 10.0 | 9.61 | | ppb v/v | | 96 | 69 - 129 |
| Carbon tetrachloride | 10.0 | 10.2 | | ppb v/v | | 102 | 62 - 143 |
| 2,2,4-Trimethylpentane | 10.0 | 9.36 | | ppb v/v | | 94 | 67 - 127 |
| Benzene | 10.0 | 10.5 | | ppb v/v | | 106 | 67 - 127 |
| 1,2-Dichloroethane | 10.0 | 9.57 | | ppb v/v | | 96 | 67 - 132 |
| n-Heptane | 10.0 | 9.34 | | ppb v/v | | 93 | 62 - 130 |
| Trichloroethene | 10.0 | 9.61 | | ppb v/v | | 96 | 68 - 128 |
| Methyl methacrylate | 10.0 | 8.80 | | ppb v/v | | 88 | 70 - 130 |
| 1,2-Dichloropropane | 10.0 | 9.02 | | ppb v/v | | 90 | 67 - 127 |
| 1,4-Dioxane | 10.0 | 10.0 | | ppb v/v | | 100 | 66 - 132 |
| Bromodichloromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 69 - 129 |
| cis-1,3-Dichloropropene | 10.0 | 9.71 | | ppb v/v | | 97 | 70 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 8.55 | | ppb v/v | | 86 | 62 - 130 |
| Toluene | 10.0 | 9.98 | | ppb v/v | | 100 | 67 - 127 |
| trans-1,3-Dichloropropene | 10.0 | 9.36 | | ppb v/v | | 94 | 69 - 129 |
| 1,1,2-Trichloroethane | 10.0 | 9.70 | | ppb v/v | | 97 | 69 - 129 |
| Tetrachloroethene | 10.0 | 11.2 | | ppb v/v | | 112 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 8.43 | | ppb v/v | | 84 | 61 - 127 |
| Dibromochloromethane | 10.0 | 11.3 | | ppb v/v | | 113 | 66 - 130 |
| 1,2-Dibromoethane | 10.0 | 10.1 | | ppb v/v | | 101 | 70 - 130 |
| Chlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 68 - 128 |
| Ethylbenzene | 10.0 | 9.57 | | ppb v/v | | 96 | 68 - 128 |
| m,p-Xylene | 20.0 | 18.9 | | ppb v/v | | 95 | 68 - 128 |
| o-Xylene | 10.0 | 9.67 | | ppb v/v | | 97 | 67 - 127 |
| Styrene | 10.0 | 9.81 | | ppb v/v | | 98 | 68 - 128 |
| Bromoform | 10.0 | 11.1 | | ppb v/v | | 111 | 34 - 170 |
| Cumene | 10.0 | 9.83 | | ppb v/v | | 98 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.09 | | ppb v/v | | 91 | 69 - 129 |
| n-Propylbenzene | 10.0 | 9.42 | | ppb v/v | | 94 | 67 - 127 |
| 4-Ethyltoluene | 10.0 | 9.62 | | ppb v/v | | 96 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 10.0 | 9.66 | | ppb v/v | | 97 | 65 - 125 |
| 2-Chlorotoluene | 10.0 | 9.59 | | ppb v/v | | 96 | 67 - 127 |
| tert-Butylbenzene | 10.0 | 9.81 | | ppb v/v | | 98 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 10.0 | 9.69 | | ppb v/v | | 97 | 65 - 125 |
| sec-Butylbenzene | 10.0 | 9.86 | | ppb v/v | | 99 | 66 - 126 |
| 4-Isopropyltoluene | 10.0 | 10.0 | | ppb v/v | | 100 | 67 - 129 |
| 1,3-Dichlorobenzene | 10.0 | 10.0 | | ppb v/v | | 100 | 67 - 127 |
| 1,4-Dichlorobenzene | 10.0 | 10.2 | | ppb v/v | | 102 | 66 - 126 |
| Benzyl chloride | 10.0 | 9.08 | | ppb v/v | | 91 | 54 - 135 |
| n-Butylbenzene | 10.0 | 9.67 | | ppb v/v | | 97 | 67 - 127 |
| 1,2-Dichlorobenzene | 10.0 | 10.0 | | ppb v/v | | 100 | 67 - 127 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137867/4**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 10.0 | 7.90 | | ppb v/v | | 79 | 59 - 126 |
| Hexachlorobutadiene | 10.0 | 8.55 | | ppb v/v | | 86 | 62 - 130 |
| Naphthalene | 10.0 | 7.30 | | ppb v/v | | 73 | 50 - 121 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 56.9 | | ug/m3 | | 115 | 68 - 128 |
| Chlorodifluoromethane | 35 | 36.7 | | ug/m3 | | 104 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 77.9 | | ug/m3 | | 111 | 78 - 138 |
| Chloromethane | 21 | 20.8 | | ug/m3 | | 101 | 57 - 126 |
| n-Butane | 24 | 23.2 | | ug/m3 | | 98 | 56 - 130 |
| Vinyl chloride | 26 | 25.1 | | ug/m3 | | 98 | 62 - 125 |
| 1,3-Butadiene | 22 | 21.8 | | ug/m3 | | 98 | 59 - 125 |
| Bromomethane | 39 | 40.0 | | ug/m3 | | 103 | 68 - 128 |
| Chloroethane | 26 | 25.1 | | ug/m3 | | 95 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 44 | 44.8 | | ug/m3 | | 103 | 67 - 127 |
| Trichlorofluoromethane | 56 | 58.0 | | ug/m3 | | 103 | 67 - 127 |
| 1,1,2-Trichlorotrifluoroethane | 77 | 78.2 | | ug/m3 | | 102 | 68 - 128 |
| 1,1-Dichloroethene | 40 | 39.6 | | ug/m3 | | 100 | 67 - 127 |
| Acetone | 24 | 23.6 | | ug/m3 | | 99 | 64 - 136 |
| Isopropyl alcohol | 25 | 24.0 | | ug/m3 | | 98 | 55 - 124 |
| Carbon disulfide | 31 | 32.5 | | ug/m3 | | 104 | 81 - 141 |
| 3-Chloropropene | 31 | 30.3 | | ug/m3 | | 97 | 53 - 133 |
| Methylene Chloride | 35 | 33.2 | | ug/m3 | | 96 | 62 - 122 |
| tert-Butyl alcohol | 30 | 30.4 | | ug/m3 | | 100 | 64 - 124 |
| Methyl tert-butyl ether | 36 | 35.3 | | ug/m3 | | 98 | 67 - 127 |
| trans-1,2-Dichloroethene | 40 | 38.3 | | ug/m3 | | 97 | 72 - 132 |
| n-Hexane | 35 | 34.6 | | ug/m3 | | 98 | 71 - 131 |
| 1,1-Dichloroethane | 40 | 38.0 | | ug/m3 | | 94 | 66 - 126 |
| Methyl Ethyl Ketone (2-Butanone) | 29 | 26.4 | | ug/m3 | | 89 | 62 - 122 |
| cis-1,2-Dichloroethene | 40 | 41.8 | | ug/m3 | | 105 | 67 - 127 |
| Chloroform | 49 | 48.7 | | ug/m3 | | 100 | 69 - 129 |
| Tetrahydrofuran | 29 | 25.6 | | ug/m3 | | 87 | 61 - 136 |
| 1,1,1-Trichloroethane | 55 | 54.2 | | ug/m3 | | 99 | 70 - 130 |
| Cyclohexane | 34 | 33.1 | | ug/m3 | | 96 | 69 - 129 |
| Carbon tetrachloride | 63 | 64.4 | | ug/m3 | | 102 | 62 - 143 |
| 2,2,4-Trimethylpentane | 47 | 43.7 | | ug/m3 | | 94 | 67 - 127 |
| Benzene | 32 | 33.7 | | ug/m3 | | 106 | 67 - 127 |
| 1,2-Dichloroethane | 40 | 38.7 | | ug/m3 | | 96 | 67 - 132 |
| n-Heptane | 41 | 38.3 | | ug/m3 | | 93 | 62 - 130 |
| Trichloroethene | 54 | 51.6 | | ug/m3 | | 96 | 68 - 128 |
| Methyl methacrylate | 41 | 36.1 | | ug/m3 | | 88 | 70 - 130 |
| 1,2-Dichloropropane | 46 | 41.7 | | ug/m3 | | 90 | 67 - 127 |
| 1,4-Dioxane | 36 | 36.1 | | ug/m3 | | 100 | 66 - 132 |
| Bromodichloromethane | 67 | 70.6 | | ug/m3 | | 105 | 69 - 129 |
| cis-1,3-Dichloropropene | 45 | 44.1 | | ug/m3 | | 97 | 70 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41 | 35.0 | | ug/m3 | | 86 | 62 - 130 |
| Toluene | 38 | 37.6 | | ug/m3 | | 100 | 67 - 127 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137867/4**
**Matrix: Air**
**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 45 | 42.5 | | ug/m3 | | 94 | 69 - 129 |
| 1,1,2-Trichloroethane | 55 | 52.9 | | ug/m3 | | 97 | 69 - 129 |
| Tetrachloroethene | 68 | 76.1 | | ug/m3 | | 112 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 34.6 | | ug/m3 | | 84 | 61 - 127 |
| Dibromochloromethane | 85 | 96.5 | | ug/m3 | | 113 | 66 - 130 |
| 1,2-Dibromoethane | 77 | 77.9 | | ug/m3 | | 101 | 70 - 130 |
| Chlorobenzene | 46 | 46.7 | | ug/m3 | | 101 | 68 - 128 |
| Ethylbenzene | 43 | 41.5 | | ug/m3 | | 96 | 68 - 128 |
| m,p-Xylene | 87 | 82.3 | | ug/m3 | | 95 | 68 - 128 |
| o-Xylene | 43 | 42.0 | | ug/m3 | | 97 | 67 - 127 |
| Styrene | 43 | 41.8 | | ug/m3 | | 98 | 68 - 128 |
| Bromoform | 100 | 115 | | ug/m3 | | 111 | 34 - 170 |
| Cumene | 49 | 48.3 | | ug/m3 | | 98 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 62.4 | | ug/m3 | | 91 | 69 - 129 |
| n-Propylbenzene | 49 | 46.3 | | ug/m3 | | 94 | 67 - 127 |
| 4-Ethyltoluene | 49 | 47.3 | | ug/m3 | | 96 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 49 | 47.5 | | ug/m3 | | 97 | 65 - 125 |
| 2-Chlorotoluene | 52 | 49.6 | | ug/m3 | | 96 | 67 - 127 |
| tert-Butylbenzene | 55 | 53.8 | | ug/m3 | | 98 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 49 | 47.6 | | ug/m3 | | 97 | 65 - 125 |
| sec-Butylbenzene | 55 | 54.1 | | ug/m3 | | 99 | 66 - 126 |
| 4-Isopropyltoluene | 55 | 55.0 | | ug/m3 | | 100 | 67 - 129 |
| 1,3-Dichlorobenzene | 60 | 60.1 | | ug/m3 | | 100 | 67 - 127 |
| 1,4-Dichlorobenzene | 60 | 61.6 | | ug/m3 | | 102 | 66 - 126 |
| Benzyl chloride | 52 | 47.0 | | ug/m3 | | 91 | 54 - 135 |
| n-Butylbenzene | 55 | 53.1 | | ug/m3 | | 97 | 67 - 127 |
| 1,2-Dichlorobenzene | 60 | 60.3 | | ug/m3 | | 100 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 74 | 58.6 | | ug/m3 | | 79 | 59 - 126 |
| Hexachlorobutadiene | 110 | 91.2 | | ug/m3 | | 86 | 62 - 130 |
| Naphthalene | 52 | 38.3 | | ug/m3 | | 73 | 50 - 121 |

**Lab Sample ID: MB 200-137900/6**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Chloromethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| n-Butane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Bromomethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Chloroethane | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Trichlorofluoromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137900/6**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Acetone | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| n-Hexane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Chloroform | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Carbon tetrachloride | 0.035 | U | 0.035 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Benzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| n-Heptane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Trichloroethene | 0.035 | U | 0.035 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Toluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| o-Xylene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Styrene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Bromoform | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Cumene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137900/6**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | | ppb v/v | | | 12/07/18 15:52 | 1 |
| Naphthalene | 0.50 | U | 0.50 | | ppb v/v | | | 12/07/18 15:52 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | U | 2.5 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Chloromethane | 1.0 | U | 1.0 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| n-Butane | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Bromomethane | 0.78 | U | 0.78 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Chloroethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Trichlorofluoromethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,1-Dichloroethene | 0.14 | U | 0.14 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Acetone | 12 | U | 12 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Isopropyl alcohol | 12 | U | 12 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| n-Hexane | 0.70 | U | 0.70 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Chloroform | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Tetrahydrofuran | 15 | U | 15 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Carbon tetrachloride | 0.22 | U | 0.22 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Benzene | 0.64 | U | 0.64 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | | ug/m3 | | | 12/07/18 15:52 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137900/6**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.82 | U | 0.82 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Trichloroethene | 0.19 | U | 0.19 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,4-Dioxane | 18 | U | 18 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Toluene | 0.75 | U | 0.75 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| o-Xylene | 0.87 | U | 0.87 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Styrene | 0.85 | U | 0.85 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Bromoform | 2.1 | U | 2.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Cumene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | | ug/m3 | | | 12/07/18 15:52 | 1 |
| Naphthalene | 2.6 | U | 2.6 | | ug/m3 | | | 12/07/18 15:52 | 1 |

**Lab Sample ID: LCS 200-137900/5**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 11.0 | | ppb v/v | | 110 | 68 - 128 |
| Chlorodifluoromethane | 10.0 | 10.9 | | ppb v/v | | 109 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 10.6 | | ppb v/v | | 106 | 78 - 138 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | 10.7 | | ppb v/v | | 107 | 57 - 126 |
| n-Butane | 10.0 | 10.6 | | ppb v/v | | 107 | 56 - 130 |
| Vinyl chloride | 10.0 | 10.5 | | ppb v/v | | 105 | 62 - 125 |
| 1,3-Butadiene | 10.0 | 10.6 | | ppb v/v | | 106 | 59 - 125 |
| Bromomethane | 10.0 | 10.8 | | ppb v/v | | 108 | 68 - 128 |
| Chloroethane | 10.0 | 10.9 | | ppb v/v | | 109 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |
| Trichlorofluoromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 67 - 127 |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 10.5 | | ppb v/v | | 105 | 68 - 128 |
| 1,1-Dichloroethene | 10.0 | 10.5 | | ppb v/v | | 105 | 67 - 127 |
| Acetone | 10.0 | 10.7 | | ppb v/v | | 107 | 64 - 136 |
| Isopropyl alcohol | 10.0 | 10.1 | | ppb v/v | | 101 | 55 - 124 |
| Carbon disulfide | 10.0 | 10.4 | | ppb v/v | | 104 | 81 - 141 |
| 3-Chloropropene | 10.0 | 10.4 | | ppb v/v | | 104 | 53 - 133 |
| Methylene Chloride | 10.0 | 10.5 | | ppb v/v | | 105 | 62 - 122 |
| tert-Butyl alcohol | 10.0 | 10.8 | | ppb v/v | | 108 | 64 - 124 |
| Methyl tert-butyl ether | 10.0 | 10.4 | | ppb v/v | | 104 | 67 - 127 |
| trans-1,2-Dichloroethene | 10.0 | 11.3 | | ppb v/v | | 113 | 72 - 132 |
| n-Hexane | 10.0 | 10.6 | | ppb v/v | | 106 | 71 - 131 |
| 1,1-Dichloroethane | 10.0 | 10.3 | | ppb v/v | | 103 | 66 - 126 |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 10.3 | | ppb v/v | | 103 | 62 - 122 |
| cis-1,2-Dichloroethene | 10.0 | 10.2 | | ppb v/v | | 102 | 67 - 127 |
| Chloroform | 10.0 | 12.6 | | ppb v/v | | 126 | 69 - 129 |
| Tetrahydrofuran | 10.0 | 8.05 | | ppb v/v | | 80 | 61 - 136 |
| 1,1,1-Trichloroethane | 10.0 | 9.35 | | ppb v/v | | 94 | 70 - 130 |
| Cyclohexane | 10.0 | 10.1 | | ppb v/v | | 101 | 69 - 129 |
| Carbon tetrachloride | 10.0 | 9.11 | | ppb v/v | | 91 | 62 - 143 |
| 2,2,4-Trimethylpentane | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |
| Benzene | 10.0 | 10.2 | | ppb v/v | | 102 | 67 - 127 |
| 1,2-Dichloroethane | 10.0 | 10.0 | | ppb v/v | | 100 | 67 - 132 |
| n-Heptane | 10.0 | 11.3 | | ppb v/v | | 113 | 62 - 130 |
| Trichloroethene | 10.0 | 10.8 | | ppb v/v | | 108 | 68 - 128 |
| Methyl methacrylate | 10.0 | 11.3 | | ppb v/v | | 113 | 70 - 130 |
| 1,2-Dichloropropane | 10.0 | 11.9 | | ppb v/v | | 119 | 67 - 127 |
| 1,4-Dioxane | 10.0 | 10.6 | | ppb v/v | | 106 | 66 - 132 |
| Bromodichloromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 69 - 129 |
| cis-1,3-Dichloropropene | 10.0 | 10.6 | | ppb v/v | | 106 | 70 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 11.4 | | ppb v/v | | 114 | 62 - 130 |
| Toluene | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 127 |
| trans-1,3-Dichloropropene | 10.0 | 10.1 | | ppb v/v | | 101 | 69 - 129 |
| 1,1,2-Trichloroethane | 10.0 | 10.6 | | ppb v/v | | 106 | 69 - 129 |
| Tetrachloroethene | 10.0 | 9.47 | | ppb v/v | | 95 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 11.2 | | ppb v/v | | 112 | 61 - 127 |
| Dibromochloromethane | 10.0 | 10.1 | | ppb v/v | | 101 | 66 - 130 |
| 1,2-Dibromoethane | 10.0 | 10.4 | | ppb v/v | | 104 | 70 - 130 |
| Chlorobenzene | 10.0 | 10.1 | | ppb v/v | | 102 | 68 - 128 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | 10.0 | 10.3 | | ppb v/v | | 103 | 68 - 128 |
| m,p-Xylene | 20.0 | 20.5 | | ppb v/v | | 102 | 68 - 128 |
| o-Xylene | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 127 |
| Styrene | 10.0 | 10.9 | | ppb v/v | | 109 | 68 - 128 |
| Bromoform | 10.0 | 9.87 | | ppb v/v | | 99 | 34 - 170 |
| Cumene | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.9 | | ppb v/v | | 109 | 69 - 129 |
| n-Propylbenzene | 10.0 | 10.5 | | ppb v/v | | 105 | 67 - 127 |
| 4-Ethyltoluene | 10.0 | 10.3 | | ppb v/v | | 103 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 10.0 | 10.1 | | ppb v/v | | 102 | 65 - 125 |
| 2-Chlorotoluene | 10.0 | 10.2 | | ppb v/v | | 102 | 67 - 127 |
| tert-Butylbenzene | 10.0 | 9.98 | | ppb v/v | | 100 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 10.0 | 10.2 | | ppb v/v | | 102 | 65 - 125 |
| sec-Butylbenzene | 10.0 | 10.4 | | ppb v/v | | 104 | 66 - 126 |
| 4-Isopropyltoluene | 10.0 | 10.2 | | ppb v/v | | 102 | 67 - 129 |
| 1,3-Dichlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 67 - 127 |
| 1,4-Dichlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 66 - 126 |
| Benzyl chloride | 10.0 | 9.67 | | ppb v/v | | 97 | 54 - 135 |
| n-Butylbenzene | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |
| 1,2-Dichlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 10.0 | 8.97 | | ppb v/v | | 90 | 59 - 126 |
| Hexachlorobutadiene | 10.0 | 8.88 | | ppb v/v | | 89 | 62 - 130 |
| Naphthalene | 10.0 | 9.25 | | ppb v/v | | 92 | 50 - 121 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 54.2 | | ug/m3 | | 110 | 68 - 128 |
| Chlorodifluoromethane | 35 | 38.7 | | ug/m3 | | 109 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 74.4 | | ug/m3 | | 106 | 78 - 138 |
| Chloromethane | 21 | 22.1 | | ug/m3 | | 107 | 57 - 126 |
| n-Butane | 24 | 25.3 | | ug/m3 | | 107 | 56 - 130 |
| Vinyl chloride | 26 | 26.9 | | ug/m3 | | 105 | 62 - 125 |
| 1,3-Butadiene | 22 | 23.5 | | ug/m3 | | 106 | 59 - 125 |
| Bromomethane | 39 | 42.0 | | ug/m3 | | 108 | 68 - 128 |
| Chloroethane | 26 | 28.9 | | ug/m3 | | 109 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 44 | 47.4 | | ug/m3 | | 108 | 67 - 127 |
| Trichlorofluoromethane | 56 | 58.9 | | ug/m3 | | 105 | 67 - 127 |
| 1,1,2-Trichlorotrifluoroethane | 77 | 80.4 | | ug/m3 | | 105 | 68 - 128 |
| 1,1-Dichloroethene | 40 | 41.7 | | ug/m3 | | 105 | 67 - 127 |
| Acetone | 24 | 25.5 | | ug/m3 | | 107 | 64 - 136 |
| Isopropyl alcohol | 25 | 24.8 | | ug/m3 | | 101 | 55 - 124 |
| Carbon disulfide | 31 | 32.4 | | ug/m3 | | 104 | 81 - 141 |
| 3-Chloropropene | 31 | 32.5 | | ug/m3 | | 104 | 53 - 133 |
| Methylene Chloride | 35 | 36.5 | | ug/m3 | | 105 | 62 - 122 |
| tert-Butyl alcohol | 30 | 32.7 | | ug/m3 | | 108 | 64 - 124 |
| Methyl tert-butyl ether | 36 | 37.6 | | ug/m3 | | 104 | 67 - 127 |
| trans-1,2-Dichloroethene | 40 | 44.7 | | ug/m3 | | 113 | 72 - 132 |
| n-Hexane | 35 | 37.3 | | ug/m3 | | 106 | 71 - 131 |
| 1,1-Dichloroethane | 40 | 41.9 | | ug/m3 | | 103 | 66 - 126 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone (2-Butanone) | 29 | 30.3 | | ug/m3 | | 103 | 62 - 122 |
| cis-1,2-Dichloroethene | 40 | 40.4 | | ug/m3 | | 102 | 67 - 127 |
| Chloroform | 49 | 61.3 | | ug/m3 | | 126 | 69 - 129 |
| Tetrahydrofuran | 29 | 23.7 | | ug/m3 | | 80 | 61 - 136 |
| 1,1,1-Trichloroethane | 55 | 51.0 | | ug/m3 | | 94 | 70 - 130 |
| Cyclohexane | 34 | 34.7 | | ug/m3 | | 101 | 69 - 129 |
| Carbon tetrachloride | 63 | 57.3 | | ug/m3 | | 91 | 62 - 143 |
| 2,2,4-Trimethylpentane | 47 | 50.6 | | ug/m3 | | 108 | 67 - 127 |
| Benzene | 32 | 32.5 | | ug/m3 | | 102 | 67 - 127 |
| 1,2-Dichloroethane | 40 | 40.5 | | ug/m3 | | 100 | 67 - 132 |
| n-Heptane | 41 | 46.1 | | ug/m3 | | 113 | 62 - 130 |
| Trichloroethene | 54 | 58.1 | | ug/m3 | | 108 | 68 - 128 |
| Methyl methacrylate | 41 | 46.2 | | ug/m3 | | 113 | 70 - 130 |
| 1,2-Dichloropropane | 46 | 54.8 | | ug/m3 | | 119 | 67 - 127 |
| 1,4-Dioxane | 36 | 38.3 | | ug/m3 | | 106 | 66 - 132 |
| Bromodichloromethane | 67 | 70.2 | | ug/m3 | | 105 | 69 - 129 |
| cis-1,3-Dichloropropene | 45 | 48.3 | | ug/m3 | | 106 | 70 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41 | 46.9 | | ug/m3 | | 114 | 62 - 130 |
| Toluene | 38 | 38.7 | | ug/m3 | | 103 | 67 - 127 |
| trans-1,3-Dichloropropene | 45 | 46.0 | | ug/m3 | | 101 | 69 - 129 |
| 1,1,2-Trichloroethane | 55 | 57.7 | | ug/m3 | | 106 | 69 - 129 |
| Tetrachloroethene | 68 | 64.3 | | ug/m3 | | 95 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 45.8 | | ug/m3 | | 112 | 61 - 127 |
| Dibromochloromethane | 85 | 85.8 | | ug/m3 | | 101 | 66 - 130 |
| 1,2-Dibromoethane | 77 | 79.6 | | ug/m3 | | 104 | 70 - 130 |
| Chlorobenzene | 46 | 46.7 | | ug/m3 | | 102 | 68 - 128 |
| Ethylbenzene | 43 | 44.7 | | ug/m3 | | 103 | 68 - 128 |
| m,p-Xylene | 87 | 88.8 | | ug/m3 | | 102 | 68 - 128 |
| o-Xylene | 43 | 44.6 | | ug/m3 | | 103 | 67 - 127 |
| Styrene | 43 | 46.4 | | ug/m3 | | 109 | 68 - 128 |
| Bromoform | 100 | 102 | | ug/m3 | | 99 | 34 - 170 |
| Cumene | 49 | 50.8 | | ug/m3 | | 103 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 74.8 | | ug/m3 | | 109 | 69 - 129 |
| n-Propylbenzene | 49 | 51.5 | | ug/m3 | | 105 | 67 - 127 |
| 4-Ethyltoluene | 49 | 50.4 | | ug/m3 | | 103 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 49 | 49.9 | | ug/m3 | | 102 | 65 - 125 |
| 2-Chlorotoluene | 52 | 52.8 | | ug/m3 | | 102 | 67 - 127 |
| tert-Butylbenzene | 55 | 54.8 | | ug/m3 | | 100 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 49 | 49.9 | | ug/m3 | | 102 | 65 - 125 |
| sec-Butylbenzene | 55 | 57.2 | | ug/m3 | | 104 | 66 - 126 |
| 4-Isopropyltoluene | 55 | 56.0 | | ug/m3 | | 102 | 67 - 129 |
| 1,3-Dichlorobenzene | 60 | 60.5 | | ug/m3 | | 101 | 67 - 127 |
| 1,4-Dichlorobenzene | 60 | 60.9 | | ug/m3 | | 101 | 66 - 126 |
| Benzyl chloride | 52 | 50.0 | | ug/m3 | | 97 | 54 - 135 |
| n-Butylbenzene | 55 | 59.4 | | ug/m3 | | 108 | 67 - 127 |
| 1,2-Dichlorobenzene | 60 | 60.5 | | ug/m3 | | 101 | 67 - 127 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**
**Matrix: Air**
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 74 | 66.6 | | ug/m3 | | 90 | 59 - 126 |
| Hexachlorobutadiene | 110 | 94.7 | | ug/m3 | | 89 | 62 - 130 |
| Naphthalene | 52 | 48.5 | | ug/m3 | | 92 | 50 - 121 |

# QC Association Summary

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

## Air - GC/MS VOA

### Analysis Batch: 137819

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-46353-1 | AA-1_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-2 | IA-1_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-3 | IA-2_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-4 | IA-3_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-5 | IA-4_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-6 | IA-5_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-7 | MP-1_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-8 | MP-2_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-9 | MP-3_20181120 | Total/NA | Air | TO-15 | |
| MB 200-137819/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-137819/6 | Lab Control Sample | Total/NA | Air | TO-15 | |

### Analysis Batch: 137867

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-46353-6 - DL | IA-5_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-10 | MP-4_20181120 | Total/NA | Air | TO-15 | |
| 200-46353-11 | MP-5_20181119 | Total/NA | Air | TO-15 | |
| MB 200-137867/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-137867/4 | Lab Control Sample | Total/NA | Air | TO-15 | |

### Analysis Batch: 137900

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-46353-2 - DL | IA-1_20181120 | Total/NA | Air | TO-15 | |
| MB 200-137900/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-137900/5 | Lab Control Sample | Total/NA | Air | TO-15 | |

# Lab Chronicle

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

## Client Sample ID: AA-1_20181120
**Lab Sample ID: 200-46353-1**
**Date Collected: 11/20/18 16:27**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 03:30 | A1B | TAL BUR |

## Client Sample ID: IA-1_20181120
**Lab Sample ID: 200-46353-2**
**Date Collected: 11/20/18 13:44**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | DL | 10 | 137900 | 12/07/18 16:45 | VTP | TAL BUR |
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 04:21 | A1B | TAL BUR |

## Client Sample ID: IA-2_20181120
**Lab Sample ID: 200-46353-3**
**Date Collected: 11/20/18 12:59**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 05:11 | A1B | TAL BUR |

## Client Sample ID: IA-3_20181120
**Lab Sample ID: 200-46353-4**
**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 06:01 | A1B | TAL BUR |

## Client Sample ID: IA-4_20181120
**Lab Sample ID: 200-46353-5**
**Date Collected: 11/20/18 13:01**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 06:51 | A1B | TAL BUR |

## Client Sample ID: IA-5_20181120
**Lab Sample ID: 200-46353-6**
**Date Collected: 11/20/18 12:58**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 07:42 | A1B | TAL BUR |
| Total/NA | Analysis | TO-15 | DL | 4 | 137867 | 12/06/18 22:33 | K1P | TAL BUR |

# Lab Chronicle

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

## Client Sample ID: MP-1_20181120
**Lab Sample ID: 200-46353-7**
**Date Collected: 11/20/18 15:15**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 50 | 137819 | 12/06/18 08:32 | A1B | TAL BUR |

## Client Sample ID: MP-2_20181120
**Lab Sample ID: 200-46353-8**
**Date Collected: 11/20/18 12:59**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 20 | 137819 | 12/06/18 09:23 | A1B | TAL BUR |

## Client Sample ID: MP-3_20181120
**Lab Sample ID: 200-46353-9**
**Date Collected: 11/20/18 13:00**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137819 | 12/06/18 10:13 | A1B | TAL BUR |

## Client Sample ID: MP-4_20181120
**Lab Sample ID: 200-46353-10**
**Date Collected: 11/20/18 07:45**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137867 | 12/06/18 23:23 | K1P | TAL BUR |

## Client Sample ID: MP-5_20181119
**Lab Sample ID: 200-46353-11**
**Date Collected: 11/19/18 14:50**
**Matrix: Air**
**Date Received: 11/23/18 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 137867 | 12/07/18 00:13 | K1P | TAL BUR |

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

## Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New Jersey | NELAP | 2 | VT972 | 06-30-19 |

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| TO-15 | | Air | 4-Isopropyltoluene |
| TO-15 | | Air | Chlorodifluoromethane |
| TO-15 | | Air | Cumene |
| TO-15 | | Air | n-Butane |
| TO-15 | | Air | n-Butylbenzene |
| TO-15 | | Air | n-Propylbenzene |
| TO-15 | | Air | sec-Butylbenzene |
| TO-15 | | Air | tert-Butylbenzene |

# Method Summary

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | TAL BUR |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 200-46353-1 | AA-1_20181120 | Air | 11/20/18 16:27 | 11/23/18 13:10 |
| 200-46353-2 | IA-1_20181120 | Air | 11/20/18 13:44 | 11/23/18 13:10 |
| 200-46353-3 | IA-2_20181120 | Air | 11/20/18 12:59 | 11/23/18 13:10 |
| 200-46353-4 | IA-3_20181120 | Air | 11/20/18 13:00 | 11/23/18 13:10 |
| 200-46353-5 | IA-4_20181120 | Air | 11/20/18 13:01 | 11/23/18 13:10 |
| 200-46353-6 | IA-5_20181120 | Air | 11/20/18 12:58 | 11/23/18 13:10 |
| 200-46353-7 | MP-1_20181120 | Air | 11/20/18 15:15 | 11/23/18 13:10 |
| 200-46353-8 | MP-2_20181120 | Air | 11/20/18 12:59 | 11/23/18 13:10 |
| 200-46353-9 | MP-3_20181120 | Air | 11/20/18 13:00 | 11/23/18 13:10 |
| 200-46353-10 | MP-4_20181120 | Air | 11/20/18 07:45 | 11/23/18 13:10 |
| 200-46353-11 | MP-5_20181119 | Air | 11/19/18 14:50 | 11/23/18 13:10 |

# Quantitation Limit Exceptions Summary

Client: AKRF Inc
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1
SDG: 200-46353-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Matrix | Analyte | Units | Client RL | Lab PQL |
|---|---|---|---|---|---|
| TO-15 | Air | 1,1-Dichloroethene | ppb v/v | 0.035 | 0.20 |
| TO-15 | Air | Carbon tetrachloride | ppb v/v | 0.035 | 0.20 |
| TO-15 | Air | cis-1,2-Dichloroethene | ppb v/v | 0.050 | 0.20 |
| TO-15 | Air | Trichloroethene | ppb v/v | 0.035 | 0.20 |
| TO-15 | Air | Vinyl chloride | ppb v/v | 0.078 | 0.20 |

# AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i  Analysis Batch Number: 137783

Lab Sample ID: IC 200-137783/4  Client Sample ID:

Date Analyzed: 12/04/18 20:51  Lab File ID: 33516-04.D  GC Column: RTX-624  ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Trichlorofluoromethane | 5.12 | Incomplete Integration | guazzonig | 12/05/18 10:19 |
| cis-1,2-Dichloroethene | 9.77 | Incomplete Integration | guazzonig | 12/05/18 10:19 |
| Chloroform | 10.36 | Incomplete Integration | guazzonig | 12/05/18 10:20 |
| Cyclohexane | 10.60 | Incomplete Integration | guazzonig | 12/05/18 10:20 |
| 2,2,4-Trimethylpentane | 11.35 | Incomplete Integration | guazzonig | 12/05/18 10:20 |
| Benzene | 11.35 | Incomplete Integration | guazzonig | 12/05/18 10:20 |

Lab Sample ID: IC 200-137783/5  Client Sample ID:

Date Analyzed: 12/04/18 21:44  Lab File ID: 33516-05.D  GC Column: RTX-624  ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acrylonitrile | 7.91 | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| Cyclohexane | 10.63 | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| Benzene | 11.34 | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| 1,4-Dioxane | 13.47 | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| trans-1,3-Dichloropropene | 15.95 | Incomplete Integration | guazzonig | 12/05/18 10:33 |

Lab Sample ID: ICIS 200-137783/8  Client Sample ID:

Date Analyzed: 12/05/18 00:25  Lab File ID: 33516-08.D  GC Column: RTX-624  ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 7.14 | Wrong peak | guazzonig | 12/05/18 10:15 |

# AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i  Analysis Batch Number: 137900

Lab Sample ID: MB 200-137900/6  Client Sample ID:

Date Analyzed: 12/07/18 15:52  Lab File ID: 33574-05.D  GC Column: RTX-624  ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethylbenzene | | Invalid Compound ID | phamvu | 12/10/18 17:25 |

Lab Sample ID: 200-46353-2 DL  Client Sample ID: IA-1_20181120 DL

Date Analyzed: 12/07/18 16:45  Lab File ID: 33574-06.D  GC Column: RTX-624  ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| n-Butane | 3.62 | Incomplete Integration | phamvu | 12/10/18 17:25 |
| Chlorodifluoromethane | | Invalid Compound ID | phamvu | 12/10/18 17:25 |
| sec-Butylbenzene | | Invalid Compound ID | phamvu | 12/10/18 17:26 |
| Styrene | | Invalid Compound ID | phamvu | 12/10/18 17:26 |
| Naphthalene | 25.89 | Incomplete Integration | phamvu | 12/10/18 17:26 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137447

Lab Sample ID: IC 200-137447/4 Client Sample ID:

Date Analyzed: 11/27/18 20:22 Lab File ID: 200-33385-004.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloroform | 9.28 | Baseline | mickd | 11/28/18 08:49 |
| 1,1,1-Trichloroethane | 9.54 | Split Peak | mickd | 11/28/18 08:52 |
| Carbon tetrachloride | 9.79 | Split Peak | mickd | 11/28/18 08:53 |
| Benzene | 10.22 | Split Peak | mickd | 11/28/18 08:56 |
| Trichloroethene | 11.49 | Split Peak | mickd | 11/28/18 08:57 |
| Dibromomethane | 12.27 | Split Peak | mickd | 11/28/18 08:58 |
| cis-1,3-Dichloropropene | 13.49 | Split Peak | mickd | 11/28/18 08:59 |
| Tetrachloroethene | 15.15 | Split Peak | mickd | 11/28/18 09:00 |
| 1,2-Dibromoethane | 16.04 | Split Peak | mickd | 11/28/18 09:02 |

Lab Sample ID: IC 200-137447/5 Client Sample ID:

Date Analyzed: 11/27/18 21:13 Lab File ID: 200-33385-005.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Methyl Ethyl Ketone (2-Butanone) | 8.84 | Split Peak | mickd | 11/28/18 09:07 |
| Cyclohexane | 9.53 | Split Peak | mickd | 11/28/18 09:09 |
| 1,1,1-Trichloroethane | 9.54 | Split Peak | mickd | 11/28/18 09:09 |
| 1,2-Dichloropropane | 12.02 | Split Peak | mickd | 11/28/18 09:10 |
| Dibromomethane | 12.28 | Split Peak | mickd | 11/28/18 09:11 |
| Bromodichloromethane | 12.57 | Baseline | mickd | 11/28/18 09:12 |
| cis-1,3-Dichloropropene | 13.48 | Split Peak | mickd | 11/28/18 09:13 |
| Toluene | 14.07 | Split Peak | mickd | 11/28/18 09:13 |
| o-Xylene | 18.30 | Baseline | mickd | 11/28/18 09:15 |
| Bromoform | 18.78 | Split Peak | mickd | 11/28/18 09:15 |
| Hexachlorobutadiene | 24.54 | Split Peak | mickd | 11/28/18 09:16 |

# AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137447

Lab Sample ID: IC 200-137447/6 Client Sample ID:

Date Analyzed: 11/27/18 22:03 Lab File ID: 200-33385-006.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acrylonitrile | 7.08 | Baseline | mickd | 11/28/18 09:19 |
| 1,2-Dichloropropane | 12.01 | Baseline | mickd | 11/28/18 09:20 |

Lab Sample ID: IC 200-137447/7 Client Sample ID:

Date Analyzed: 11/27/18 22:54 Lab File ID: 200-33385-007.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acrolein | 5.59 | Missed Peak | mickd | 11/28/18 10:22 |

Lab Sample ID: ICIS 200-137447/8 Client Sample ID:

Date Analyzed: 11/27/18 23:44 Lab File ID: 200-33385-008.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acrolein | 5.59 | Missed Peak | mickd | 11/28/18 10:24 |

Lab Sample ID: IC 200-137447/9 Client Sample ID:

Date Analyzed: 11/28/18 00:35 Lab File ID: 200-33385-009.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,4-Dioxane | 12.28 | Missed Peak | mickd | 11/28/18 09:36 |

Lab Sample ID: IC 200-137447/11 Client Sample ID:

Date Analyzed: 11/28/18 02:15 Lab File ID: 200-33385-011.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acrolein | 5.59 | Missed Peak | mickd | 11/28/18 10:26 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: CCVIS 200-137819/3 Client Sample ID:

Date Analyzed: 12/05/18 15:48 Lab File ID: 200-33531-003.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethanol | 5.20 | Peak assignment corrected | tobere | 12/05/18 16:46 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: MB 200-137819/5 Client Sample ID:

Date Analyzed: 12/05/18 17:29 Lab File ID: 200-33531-005.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,1,1-Trichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 12:59 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | bunmaa | 12/06/18 13:04 |
| 1,1,2-Trichlorotrifluoroethane | | Invalid Compound ID | bunmaa | 12/06/18 12:57 |
| 1,1-Dichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 12:59 |
| 1,1-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 12:57 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/06/18 12:56 |
| 2-Chlorotoluene | | Invalid Compound ID | bunmaa | 12/06/18 13:05 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/06/18 12:57 |
| 4-Isopropyltoluene | | Invalid Compound ID | bunmaa | 12/06/18 13:07 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | bunmaa | 12/06/18 13:01 |
| Benzene | | Invalid Compound ID | bunmaa | 12/06/18 13:00 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/06/18 13:08 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | bunmaa | 12/06/18 12:56 |
| Bromoform | | Invalid Compound ID | bunmaa | 12/06/18 13:04 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/06/18 12:56 |
| Carbon disulfide | | Invalid Compound ID | bunmaa | 12/06/18 12:57 |
| Chloroethane | | Invalid Compound ID | bunmaa | 12/06/18 12:56 |
| Chloromethane | | Invalid Compound ID | bunmaa | 12/06/18 12:55 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 12:59 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/06/18 13:01 |
| Cumene | | Invalid Compound ID | bunmaa | 12/06/18 13:04 |
| Dibromochloromethane | | Invalid Compound ID | bunmaa | 12/06/18 13:02 |
| Ethylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 13:03 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/06/18 13:08 |
| Isopropyl alcohol | | Invalid Compound ID | bunmaa | 12/06/18 12:57 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/06/18 13:02 |
| Methyl tert-butyl ether | | Invalid Compound ID | bunmaa | 12/06/18 12:58 |
| n-Butane | | Invalid Compound ID | bunmaa | 12/06/18 12:55 |
| n-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 13:08 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: MB 200-137819/5 Client Sample ID:

Date Analyzed: 12/05/18 17:29 Lab File ID: 200-33531-005.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| n-Heptane | | Invalid Compound ID | bunmaa | 12/06/18 13:00 |
| n-Hexane | | Invalid Compound ID | bunmaa | 12/06/18 12:59 |
| n-Propylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 13:05 |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 13:07 |
| tert-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 13:06 |
| Tetrachloroethene | | Invalid Compound ID | bunmaa | 12/06/18 13:02 |
| Tetrahydrofuran | | Invalid Compound ID | bunmaa | 12/06/18 12:59 |
| trans-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 12:57 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/06/18 13:01 |
| Trichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 13:00 |
| Vinyl chloride | | Invalid Compound ID | bunmaa | 12/06/18 12:55 |
| Toluene | 14.07 | Assign Peak | bunmaa | 12/06/18 13:01 |
| 1,2-Dibromoethane | 16.04 | Assign Peak | bunmaa | 12/06/18 13:02 |
| o-Xylene | 18.28 | Assign Peak | bunmaa | 12/06/18 13:03 |
| Styrene | 18.34 | Assign Peak | bunmaa | 12/06/18 13:04 |
| 4-Ethyltoluene | 20.07 | Assign Peak | bunmaa | 12/06/18 13:06 |
| 1,2,4-Trimethylbenzene | 20.79 | Assign Peak | bunmaa | 12/06/18 13:07 |
| 1,3-Dichlorobenzene | 21.28 | Assign Peak | bunmaa | 12/06/18 13:07 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-1 Client Sample ID: AA-1_20181120

Date Analyzed: 12/06/18 03:30 Lab File ID: 200-33531-017.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dichlorotetrafluoroethane | 3.35 | Assign Peak | bunmaa | 12/06/18 16:23 |
| Carbon disulfide | 6.01 | Assign Peak | bunmaa | 12/06/18 16:24 |
| Chloroform | 9.26 | Assign Peak | bunmaa | 12/06/18 16:25 |
| Cyclohexane | 9.52 | Assign Peak | bunmaa | 12/06/18 16:26 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 16:26 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | bunmaa | 12/06/18 16:29 |
| 1,1-Dichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 16:25 |
| 1,1-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 16:24 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/06/18 16:24 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| 1,4-Dioxane | | Invalid Compound ID | bunmaa | 12/06/18 16:27 |
| 2-Chlorotoluene | | Invalid Compound ID | bunmaa | 12/06/18 16:29 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/06/18 16:25 |
| 4-Isopropyltoluene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | bunmaa | 12/06/18 16:27 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | bunmaa | 12/06/18 16:24 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/06/18 16:24 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 16:25 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/06/18 16:27 |
| Cumene | | Invalid Compound ID | bunmaa | 12/06/18 16:29 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/06/18 16:28 |
| Methyl tert-butyl ether | | Invalid Compound ID | bunmaa | 12/06/18 16:25 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| n-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 16:30 |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 16:29 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-1 Client Sample ID: AA-1_20181120

Date Analyzed: 12/06/18 03:30 Lab File ID: 200-33531-017.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| tert-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 16:29 |
| Tetrahydrofuran | | Invalid Compound ID | bunmaa | 12/06/18 16:25 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/06/18 16:27 |
| 2,2,4-Trimethylpentane | 10.20 | Assign Peak | bunmaa | 12/06/18 16:26 |
| n-Heptane | 10.56 | Assign Peak | bunmaa | 12/06/18 16:27 |
| Styrene | 18.34 | Assign Peak | bunmaa | 12/06/18 16:28 |
| n-Propylbenzene | 19.84 | Assign Peak | bunmaa | 12/06/18 16:29 |
| 1,4-Dichlorobenzene | 21.41 | Assign Peak | bunmaa | 12/06/18 16:30 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-2 Client Sample ID: IA-1_20181120

Date Analyzed: 12/06/18 04:21 Lab File ID: 200-33531-018.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Methylene Chloride | 6.56 | Assign Peak | bunmaa | 12/06/18 17:17 |
| tert-Butyl alcohol | 6.80 | Assign Peak | bunmaa | 12/06/18 17:18 |
| Cyclohexane | 9.53 | Assign Peak | bunmaa | 12/06/18 17:19 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 17:19 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | bunmaa | 12/06/18 17:22 |
| 1,1-Dichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 17:18 |
| 1,1-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 17:17 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:33 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:33 |
| 1,2-Dichloroethane | | Invalid Compound ID | bunmaa | 12/06/18 17:20 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | bunmaa | 12/06/18 17:16 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/06/18 17:16 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:24 |
| 1,4-Dioxane | | Invalid Compound ID | bunmaa | 12/06/18 17:21 |
| 2-Chlorotoluene | | Invalid Compound ID | bunmaa | 12/06/18 17:24 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/06/18 17:17 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/06/18 17:32 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | bunmaa | 12/06/18 17:16 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/06/18 17:16 |
| Carbon disulfide | | Invalid Compound ID | bunmaa | 12/06/18 17:17 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:22 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 17:18 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/06/18 17:21 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/06/18 17:33 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/06/18 17:21 |
| Methyl methacrylate | | Invalid Compound ID | bunmaa | 12/06/18 17:20 |
| Methyl tert-butyl ether | | Invalid Compound ID | bunmaa | 12/06/18 17:18 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/06/18 17:33 |
| n-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:32 |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:24 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-2 Client Sample ID: IA-1_20181120

Date Analyzed: 12/06/18 04:21 Lab File ID: 200-33531-018.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| tert-Butylbenzene | | Invalid Compound ID | bunmaa | 12/06/18 17:24 |
| Tetrahydrofuran | | Invalid Compound ID | bunmaa | 12/06/18 17:19 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/06/18 17:21 |
| Trichloroethene | | Invalid Compound ID | bunmaa | 12/06/18 17:20 |
| Vinyl chloride | | Invalid Compound ID | bunmaa | 12/06/18 17:16 |
| n-Heptane | 10.57 | Assign Peak | bunmaa | 12/06/18 17:20 |
| Bromodichloromethane | 12.56 | Incomplete Integration | bunmaa | 12/06/18 17:21 |
| Cumene | 19.05 | Assign Peak | bunmaa | 12/06/18 17:22 |
| n-Propylbenzene | 19.84 | Assign Peak | bunmaa | 12/06/18 17:23 |
| 1,4-Dichlorobenzene | 21.42 | Assign Peak | bunmaa | 12/06/18 17:24 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-3 Client Sample ID: IA-2_20181120

Date Analyzed: 12/06/18 05:11 Lab File ID: 200-33531-019.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Carbon disulfide | 6.01 | Assign Peak | bunmaa | 12/07/18 08:55 |
| Chloroform | 9.27 | Incomplete Integration | guazzonig | 12/06/18 12:00 |
| Cyclohexane | 9.52 | Incomplete Integration | guazzonig | 12/06/18 12:00 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| 1,1-Dichloroethane | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| 1,1-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:00 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | bunmaa | 12/07/18 08:54 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/07/18 08:55 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 08:59 |
| 1,4-Dioxane | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| 2-Chlorotoluene | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/07/18 08:56 |
| 4-Isopropyltoluene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | bunmaa | 12/07/18 08:57 |
| Benzyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| Bromomethane | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 08:57 |
| Chloroethane | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| Cumene | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| Hexachlorobutadiene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/07/18 09:00 |
| n-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-3 Client Sample ID: IA-2_20181120

Date Analyzed: 12/06/18 05:11 Lab File ID: 200-33531-019.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| n-Propylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| sec-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| Styrene | | Invalid Compound ID | bunmaa | 12/07/18 08:58 |
| tert-Butyl alcohol | | Invalid Compound ID | bunmaa | 12/07/18 08:56 |
| tert-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 12:01 |
| Tetrahydrofuran | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | guazzonig | 12/06/18 12:00 |
| Vinyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 11:59 |
| n-Heptane | 10.55 | Assign Peak | bunmaa | 12/07/18 08:56 |
| o-Xylene | 18.29 | Incomplete Integration | guazzonig | 12/06/18 12:00 |
| 4-Ethyltoluene | 20.05 | Assign Peak | bunmaa | 12/07/18 08:58 |
| 1,3,5-Trimethylbenzene | 20.17 | Assign Peak | bunmaa | 12/07/18 08:59 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-4 Client Sample ID: IA-3_20181120

Date Analyzed: 12/06/18 06:01 Lab File ID: 200-33531-020.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloroform | 9.27 | Assign Peak | bunmaa | 12/07/18 09:03 |
| Cyclohexane | 9.52 | Incomplete Integration | guazzonig | 12/06/18 11:55 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:03 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| 1,1-Dichloroethane | | Invalid Compound ID | guazzonig | 12/06/18 11:55 |
| 1,1-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 11:53 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| 1,2-Dichloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:03 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:01 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:01 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:02 |
| 4-Isopropyltoluene | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| Benzyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | guazzonig | 12/06/18 11:53 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/07/18 09:01 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:05 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 11:55 |
| Hexachlorobutadiene | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:05 |
| Methyl tert-butyl ether | | Invalid Compound ID | guazzonig | 12/06/18 11:55 |
| n-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| sec-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 11:57 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | guazzonig | 12/06/18 11:56 |
| Trichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:03 |
| Vinyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 11:53 |
| 1,4-Dioxane | 12.32 | Assign Peak | bunmaa | 12/07/18 09:04 |
| Tetrachloroethene | 15.14 | Incomplete Integration | guazzonig | 12/06/18 11:56 |
| o-Xylene | 18.28 | Incomplete Integration | guazzonig | 12/06/18 11:56 |
| Styrene | 18.33 | Incomplete Integration | guazzonig | 12/06/18 11:56 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-4 Client Sample ID: IA-3_20181120

Date Analyzed: 12/06/18 06:01 Lab File ID: 200-33531-020.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Cumene | 19.04 | Assign Peak | bunmaa | 12/07/18 09:05 |
| 1,4-Dichlorobenzene | 21.41 | Assign Peak | bunmaa | 12/07/18 09:06 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-5 Client Sample ID: IA-4_20181120

Date Analyzed: 12/06/18 06:51 Lab File ID: 200-33531-021.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Carbon disulfide | 6.00 | Assign Peak | bunmaa | 12/07/18 09:09 |
| Chloroform | 9.26 | Assign Peak | bunmaa | 12/07/18 09:10 |
| Cyclohexane | 9.51 | Incomplete Integration | guazzonig | 12/06/18 13:33 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| 1,1-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:33 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:07 |
| 1,3,5-Trimethylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:12 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:07 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| 1,4-Dioxane | | Invalid Compound ID | bunmaa | 12/07/18 09:11 |
| 2-Chlorotoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:12 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:09 |
| 4-Ethyltoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:12 |
| 4-Isopropyltoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | guazzonig | 12/06/18 13:33 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:12 |
| Chloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:08 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:33 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| Cumene | | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:11 |
| Methyl tert-butyl ether | | Invalid Compound ID | bunmaa | 12/07/18 09:09 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| n-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| n-Propylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:12 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-5 Client Sample ID: IA-4_20181120

Date Analyzed: 12/06/18 06:51 Lab File ID: 200-33531-021.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:13 |
| Styrene | | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| tert-Butyl alcohol | | Invalid Compound ID | bunmaa | 12/07/18 09:09 |
| tert-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:12 |
| trans-1,2-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:33 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| Trichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| 1,2,4-Trimethylbenzene | 20.79 | Assign Peak | bunmaa | 12/07/18 09:13 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-6 Client Sample ID: IA-5_20181120

Date Analyzed: 12/06/18 07:42 Lab File ID: 200-33531-022.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Methylene Chloride | 6.55 | Incomplete Integration | guazzonig | 12/06/18 13:35 |
| Chloroform | 9.28 | Assign Peak | bunmaa | 12/07/18 09:19 |
| Cyclohexane | 9.54 | Incomplete Integration | guazzonig | 12/06/18 13:36 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 13:36 |
| 1,1-Dichloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:19 |
| 1,1-Dichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:18 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:23 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:23 |
| 1,2-Dichloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:19 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:17 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:18 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:38 |
| 3-Chloropropene | | Invalid Compound ID | guazzonig | 12/06/18 13:35 |
| Benzyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 13:38 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | bunmaa | 12/07/18 09:18 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/07/18 09:18 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:21 |
| Chloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:18 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:19 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | guazzonig | 12/06/18 13:36 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:24 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:21 |
| Methyl tert-butyl ether | | Invalid Compound ID | bunmaa | 12/07/18 09:18 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/07/18 09:24 |
| n-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:38 |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:23 |
| tert-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:38 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | guazzonig | 12/06/18 13:36 |
| Vinyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 13:35 |
| n-Heptane | 10.56 | Assign Peak | bunmaa | 12/07/18 09:20 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-6 Client Sample ID: IA-5_20181120

Date Analyzed: 12/06/18 07:42 Lab File ID: 200-33531-022.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Methyl methacrylate | 12.20 | Assign Peak | bunmaa | 12/07/18 09:20 |
| Styrene | 18.34 | Assign Peak | bunmaa | 12/07/18 09:21 |
| Cumene | 19.05 | Assign Peak | bunmaa | 12/07/18 09:22 |
| n-Propylbenzene | 19.85 | Assign Peak | bunmaa | 12/07/18 09:22 |
| 4-Ethyltoluene | 20.06 | Assign Peak | bunmaa | 12/07/18 09:23 |
| 1,4-Dichlorobenzene | 21.42 | Assign Peak | bunmaa | 12/07/18 09:23 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-7 Client Sample ID: MP-1_20181120

Date Analyzed: 12/06/18 08:32 Lab File ID: 200-33531-023.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Cyclohexane | 9.52 | Incomplete Integration | guazzonig | 12/06/18 13:39 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 13:40 |
| 1,1,2-Trichlorotrifluoroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| 1,1-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:39 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| 1,2-Dibromoethane | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:25 |
| 1,3-Butadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:25 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| 1,4-Dioxane | | Invalid Compound ID | bunmaa | 12/07/18 09:27 |
| 2-Chlorotoluene | | Invalid Compound ID | guazzonig | 12/06/18 13:40 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| 4-Ethyltoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:30 |
| 4-Isopropyltoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| Benzene | | Invalid Compound ID | bunmaa | 12/07/18 09:27 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/07/18 09:25 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| Chlorodifluoromethane | | Invalid Compound ID | bunmaa | 12/07/18 09:25 |
| Chloromethane | | Invalid Compound ID | guazzonig | 12/06/18 13:38 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| Cumene | | Invalid Compound ID | bunmaa | 12/07/18 09:29 |
| Ethylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-7 Client Sample ID: MP-1_20181120

Date Analyzed: 12/06/18 08:32 Lab File ID: 200-33531-023.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Isopropyl alcohol | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| m,p-Xylene | | Invalid Compound ID | bunmaa | 12/07/18 09:29 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| Methyl Ethyl Ketone (2-Butanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| Methyl tert-butyl ether | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| Methylene Chloride | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| n-Butane | | Invalid Compound ID | bunmaa | 12/07/18 09:25 |
| n-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| n-Hexane | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| n-Propylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:30 |
| o-Xylene | | Invalid Compound ID | guazzonig | 12/06/18 13:40 |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:31 |
| Styrene | | Invalid Compound ID | guazzonig | 12/06/18 13:40 |
| tert-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:30 |
| Tetrahydrofuran | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:28 |
| Trichlorofluoromethane | | Invalid Compound ID | bunmaa | 12/07/18 09:26 |
| Vinyl chloride | | Invalid Compound ID | guazzonig | 12/06/18 13:39 |
| n-Heptane | 10.57 | Incomplete Integration | guazzonig | 12/06/18 13:39 |
| Bromodichloromethane | 12.56 | Assign Peak | bunmaa | 12/07/18 09:27 |
| Toluene | 14.06 | Incomplete Integration | guazzonig | 12/06/18 13:39 |
| 1,3,5-Trimethylbenzene | 20.18 | Incomplete Integration | guazzonig | 12/06/18 13:40 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-8 Client Sample ID: MP-2_20181120

Date Analyzed: 12/06/18 09:23 Lab File ID: 200-33531-024.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Trichlorofluoromethane | 4.77 | Incomplete Integration | guazzonig | 12/06/18 13:41 |
| tert-Butyl alcohol | 6.82 | Assign Peak | bunmaa | 12/07/18 09:33 |
| Chloroform | 9.26 | Incomplete Integration | guazzonig | 12/06/18 13:42 |
| Cyclohexane | 9.53 | Assign Peak | bunmaa | 12/07/18 09:34 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 13:43 |
| 1,1-Dichloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:33 |
| 1,1-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:41 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| 1,2-Dibromoethane | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| 1,3-Butadiene | | Invalid Compound ID | guazzonig | 12/06/18 13:41 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| 1,4-Dioxane | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| 2-Chlorotoluene | | Invalid Compound ID | guazzonig | 12/06/18 13:43 |
| 3-Chloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:33 |
| 4-Ethyltoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:37 |
| 4-Isopropyltoluene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | guazzonig | 12/06/18 13:42 |
| Benzene | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | bunmaa | 12/07/18 09:32 |
| Bromomethane | | Invalid Compound ID | bunmaa | 12/07/18 09:32 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:36 |
| Chlorodifluoromethane | | Invalid Compound ID | guazzonig | 12/06/18 13:41 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:34 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| Cumene | | Invalid Compound ID | bunmaa | 12/07/18 09:37 |
| Ethylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:36 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-8 Client Sample ID: MP-2_20181120

Date Analyzed: 12/06/18 09:23 Lab File ID: 200-33531-024.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| Isopropyl alcohol | | Invalid Compound ID | bunmaa | 12/07/18 09:32 |
| m,p-Xylene | | Invalid Compound ID | bunmaa | 12/07/18 09:36 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| Methyl Ethyl Ketone (2-Butanone) | | Invalid Compound ID | bunmaa | 12/07/18 09:34 |
| Methyl tert-butyl ether | | Invalid Compound ID | guazzonig | 12/06/18 13:42 |
| Methylene Chloride | | Invalid Compound ID | bunmaa | 12/07/18 09:33 |
| Naphthalene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| n-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| n-Hexane | | Invalid Compound ID | bunmaa | 12/07/18 09:33 |
| n-Propylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:37 |
| o-Xylene | | Invalid Compound ID | bunmaa | 12/07/18 09:36 |
| sec-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:38 |
| Styrene | | Invalid Compound ID | guazzonig | 12/06/18 13:43 |
| tert-Butylbenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:37 |
| Tetrahydrofuran | | Invalid Compound ID | bunmaa | 12/07/18 09:34 |
| trans-1,2-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:42 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| Trichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:35 |
| 2,2,4-Trimethylpentane | 10.19 | Assign Peak | bunmaa | 12/07/18 09:34 |
| n-Heptane | 10.57 | Incomplete Integration | guazzonig | 12/06/18 13:42 |
| Toluene | 14.07 | Incomplete Integration | guazzonig | 12/06/18 13:42 |
| 1,2,4-Trimethylbenzene | 20.80 | Assign Peak | bunmaa | 12/07/18 09:37 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-9 Client Sample ID: MP-3_20181120

Date Analyzed: 12/06/18 10:13 Lab File ID: 200-33531-025.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chlorodifluoromethane | 3.18 | Assign Peak | bunmaa | 12/07/18 09:39 |
| 1,1,2-Trichlorotrifluoroethane | 5.60 | Incomplete Integration | guazzonig | 12/06/18 13:44 |
| Methylene Chloride | 6.55 | Incomplete Integration | guazzonig | 12/06/18 13:44 |
| Methyl tert-butyl ether | 6.94 | Assign Peak | bunmaa | 12/07/18 09:41 |
| 1,1,1-Trichloroethane | 9.55 | Incomplete Integration | guazzonig | 12/06/18 13:45 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | guazzonig | 12/06/18 13:47 |
| 1,1-Dichloroethane | | Invalid Compound ID | bunmaa | 12/07/18 09:41 |
| 1,1-Dichloroethene | | Invalid Compound ID | bunmaa | 12/07/18 09:40 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:49 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:45 |
| 1,2-Dichloroethane | | Invalid Compound ID | guazzonig | 12/06/18 13:45 |
| 1,3-Butadiene | | Invalid Compound ID | guazzonig | 12/06/18 13:44 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:49 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:49 |
| 1,4-Dioxane | | Invalid Compound ID | bunmaa | 12/07/18 09:43 |
| 2-Chlorotoluene | | Invalid Compound ID | guazzonig | 12/06/18 13:48 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | guazzonig | 12/06/18 13:46 |
| Benzyl chloride | | Invalid Compound ID | bunmaa | 12/07/18 09:45 |
| Bromodichloromethane | | Invalid Compound ID | bunmaa | 12/07/18 09:43 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | guazzonig | 12/06/18 13:44 |
| Bromomethane | | Invalid Compound ID | guazzonig | 12/06/18 13:44 |
| Chlorobenzene | | Invalid Compound ID | bunmaa | 12/07/18 09:43 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | guazzonig | 12/06/18 13:45 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:43 |
| Cumene | | Invalid Compound ID | bunmaa | 12/07/18 09:44 |
| Hexachlorobutadiene | | Invalid Compound ID | bunmaa | 12/07/18 09:45 |
| n-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:49 |
| sec-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:49 |
| tert-Butylbenzene | | Invalid Compound ID | guazzonig | 12/06/18 13:49 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-9 Client Sample ID: MP-3_20181120

Date Analyzed: 12/06/18 10:13 Lab File ID: 200-33531-025.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Tetrahydrofuran | | Invalid Compound ID | guazzonig | 12/06/18 13:45 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | bunmaa | 12/07/18 09:43 |
| 2,2,4-Trimethylpentane | 10.19 | Assign Peak | bunmaa | 12/07/18 09:42 |
| Trichloroethene | 11.48 | Incomplete Integration | guazzonig | 12/06/18 13:45 |
| Bromoform | 18.78 | Incomplete Integration | guazzonig | 12/06/18 13:47 |
| 4-Ethyltoluene | 20.06 | Assign Peak | bunmaa | 12/07/18 09:44 |
| 1,3,5-Trimethylbenzene | 20.18 | Incomplete Integration | guazzonig | 12/06/18 13:48 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: MB 200-137867/5 Client Sample ID:

Date Analyzed: 12/06/18 17:33 Lab File ID: 200-33558-005.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Methylene Chloride | 6.56 | Assign Peak | puangmalee k | 12/07/18 15:50 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| 1,1,2-Trichlorotrifluoroethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| 1,1-Dichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| 1,1-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| 1,2,4-Trimethylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| 1,3,5-Trimethylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| 1,3-Butadiene | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| 1,4-Dioxane | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| 2-Chlorotoluene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| 3-Chloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| 4-Ethyltoluene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| 4-Isopropyltoluene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Benzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| Benzyl chloride | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: MB 200-137867/5 Client Sample ID:

Date Analyzed: 12/06/18 17:33 Lab File ID: 200-33558-005.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| Bromoform | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Bromomethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| Carbon disulfide | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| Carbon tetrachloride | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| Chlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Chlorodifluoromethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| Chloromethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| Cumene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Cyclohexane | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| Dibromochloromethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Ethylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Hexachlorobutadiene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Isopropyl alcohol | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| m,p-Xylene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: MB 200-137867/5 Client Sample ID:

Date Analyzed: 12/06/18 17:33 Lab File ID: 200-33558-005.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Methyl tert-butyl ether | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| n-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| n-Heptane | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| n-Hexane | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| n-Propylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| o-Xylene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| sec-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Styrene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| tert-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Tetrachloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Tetrahydrofuran | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| Toluene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| trans-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 15:51 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 15:52 |
| Trichlorofluoromethane | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| Vinyl chloride | | Invalid Compound ID | puangmalee k | 12/07/18 15:50 |
| Trichloroethene | 11.47 | Assign Peak | puangmalee k | 12/07/18 15:51 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-6 DL Client Sample ID: IA-5_20181120 DL

Date Analyzed: 12/06/18 22:33 Lab File ID: 200-33558-011.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| 1,1-Dichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 16:15 |
| 1,1-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| 1,3-Butadiene | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| 3-Chloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| 4-Isopropyltoluene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| Benzyl chloride | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| Bromomethane | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| Chlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 16:15 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 16:34 |

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-6 DL Client Sample ID: IA-5_20181120 DL

Date Analyzed: 12/06/18 22:33 Lab File ID: 200-33558-011.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Hexachlorobutadiene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| Methyl tert-butyl ether | | Invalid Compound ID | puangmalee k | 12/07/18 16:15 |
| Naphthalene | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| n-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| n-Heptane | | Invalid Compound ID | puangmalee k | 12/07/18 16:34 |
| sec-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| Styrene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| tert-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 16:35 |
| Tetrahydrofuran | | Invalid Compound ID | puangmalee k | 12/07/18 16:15 |
| trans-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 16:15 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 16:34 |
| Vinyl chloride | | Invalid Compound ID | puangmalee k | 12/07/18 16:14 |
| 2,2,4-Trimethylpentane | 10.20 | Assign Peak | puangmalee k | 12/07/18 16:15 |
| Tetrachloroethene | 15.14 | Assign Peak | puangmalee k | 12/07/18 16:35 |
| 4-Ethyltoluene | 20.07 | Assign Peak | puangmalee k | 12/07/18 16:35 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-10 Client Sample ID: MP-4_20181120

Date Analyzed: 12/06/18 23:23 Lab File ID: 200-33558-012.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chlorodifluoromethane | 3.18 | Assign Peak | puangmalee k | 12/07/18 16:37 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| 1,1-Dichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:03 |
| 1,1-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 16:37 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| 1,2-Dibromoethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| 1,2-Dichlorotetrafluoroethane | | Invalid Compound ID | puangmalee k | 12/07/18 16:37 |
| 1,3-Butadiene | | Invalid Compound ID | puangmalee k | 12/07/18 16:37 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| 2-Chlorotoluene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| 3-Chloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 17:03 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| Benzyl chloride | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| Bromodichloromethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-10 Client Sample ID: MP-4_20181120

Date Analyzed: 12/06/18 23:23 Lab File ID: 200-33558-012.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | puangmalee k | 12/07/18 16:37 |
| Bromoform | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| Bromomethane | | Invalid Compound ID | puangmalee k | 12/07/18 16:37 |
| Chlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 17:03 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| Cumene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| Hexachlorobutadiene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| n-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| sec-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| tert-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:05 |
| Tetrahydrofuran | | Invalid Compound ID | puangmalee k | 12/07/18 17:03 |
| trans-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 17:03 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| Trichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 17:04 |
| Methyl Butyl Ketone (2-Hexanone) | 15.52 | Assign Peak | puangmalee k | 12/07/18 17:04 |
| o-Xylene | 18.29 | Assign Peak | puangmalee k | 12/07/18 17:05 |

TO-15

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-10 Client Sample ID: MP-4_20181120

Date Analyzed: 12/06/18 23:23 Lab File ID: 200-33558-012.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Styrene | 18.34 | Assign Peak | puangmalee k | 12/07/18 17:05 |
| n-Propylbenzene | 19.85 | Assign Peak | puangmalee k | 12/07/18 17:05 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-11 Client Sample ID: MP-5_20181119

Date Analyzed: 12/07/18 00:13 Lab File ID: 200-33558-013.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| trans-1,2-Dichloroethene | 6.95 | Assign Peak | puangmalee k | 12/07/18 17:06 |
| 1,1,1-Trichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| 1,1,2,2-Tetrachloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 1,1-Dichloroethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| 1,1-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 17:06 |
| 1,2,4-Trichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 1,2-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 1,3,5-Trimethylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 1,3-Butadiene | | Invalid Compound ID | puangmalee k | 12/07/18 17:06 |
| 1,3-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 1,4-Dichlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 2-Chlorotoluene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 3-Chloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 17:06 |
| 4-Ethyltoluene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| 4-Isopropyltoluene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Benzyl chloride | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Bromodichloromethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-11 Client Sample ID: MP-5_20181119

Date Analyzed: 12/07/18 00:13 Lab File ID: 200-33558-013.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Bromoethene(Vinyl Bromide) | | Invalid Compound ID | puangmalee k | 12/07/18 17:06 |
| Bromoform | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Chlorobenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| Chlorodifluoromethane | | Invalid Compound ID | puangmalee k | 12/07/18 17:06 |
| cis-1,2-Dichloroethene | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| cis-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| Cumene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Hexachlorobutadiene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Methyl Butyl Ketone (2-Hexanone) | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| Naphthalene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| n-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| n-Propylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| sec-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Styrene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| tert-Butylbenzene | | Invalid Compound ID | puangmalee k | 12/07/18 17:08 |
| Tetrahydrofuran | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |
| trans-1,3-Dichloropropene | | Invalid Compound ID | puangmalee k | 12/07/18 17:07 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-11 Client Sample ID: MP-5_20181119

Date Analyzed: 12/07/18 00:13 Lab File ID: 200-33558-013.D GC Column: RTX-624 ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Trichloroethene | 11.47 | Assign Peak | puangmalee k | 12/07/18 17:07 |
| 1,4-Dioxane | 12.32 | Assign Peak | puangmalee k | 12/07/18 17:07 |
| m,p-Xylene | 17.43 | Assign Peak | puangmalee k | 12/07/18 17:08 |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **ATTO15CAL1w_00197** | 12/07/18 | 09/11/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CAL6w_00158 | 155 mL | 1,1,1-Trichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 0.20044 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 0.20044 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 0.20044 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 0.20044 ppb v/v |
| | | | | | | | 1,3-Butadiene | 0.20044 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,4-Dioxane | 0.20044 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 0.20044 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 0.20044 ppb v/v |
| | | | | | | | 2-Methylbutane | 0.20044 ppb v/v |
| | | | | | | | 3-Chloropropene | 0.20044 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 0.20044 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Isopropyltoluene | 0.20044 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.20044 ppb v/v |
| | | | | | | | Acetone | 0.20044 ppb v/v |
| | | | | | | | Acetonitrile | 0.20044 ppb v/v |
| | | | | | | | Acrolein | 0.20044 ppb v/v |
| | | | | | | | Acrylonitrile | 0.20044 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 0.20044 ppb v/v |
| | | | | | | | Benzene | 0.20044 ppb v/v |
| | | | | | | | Benzyl chloride | 0.20044 ppb v/v |
| | | | | | | | Bromodichloromethane | 0.20044 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 0.20044 ppb v/v |
| | | | | | | | Bromoform | 0.20044 ppb v/v |
| | | | | | | | Bromomethane | 0.20044 ppb v/v |
| | | | | | | | Carbon disulfide | 0.20044 ppb v/v |
| | | | | | | | Carbon tetrachloride | 0.20044 ppb v/v |
| | | | | | | | Chlorobenzene | 0.20044 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 0.20044 ppb v/v |
| | | | | | | | Chloroethane | 0.20044 ppb v/v |
| | | | | | | | Chloroform | 0.20044 ppb v/v |
| | | | | | | | Chloromethane | 0.20044 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 0.20044 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 0.20044 ppb v/v |
| | | | | | | | Cumene | 0.20044 ppb v/v |
| | | | | | | | Cyclohexane | 0.20044 ppb v/v |
| | | | | | | | Dibromochloromethane | 0.20044 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dibromomethane | 0.20044 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 0.20044 ppb v/v |
| | | | | | | | Dodecane | 0.20044 ppb v/v |
| | | | | | | | Ethyl acetate | 0.20044 ppb v/v |
| | | | | | | | Ethyl ether | 0.20044 ppb v/v |
| | | | | | | | Ethylbenzene | 0.20044 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 0.20044 ppb v/v |
| | | | | | | | Isopropyl alcohol | 0.20044 ppb v/v |
| | | | | | | | m,p-Xylene | 0.400879 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 0.20044 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 0.20044 ppb v/v |
| | | | | | | | Methyl methacrylate | 0.20044 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 0.20044 ppb v/v |
| | | | | | | | Methylene Chloride | 0.20044 ppb v/v |
| | | | | | | | n-Butane | 0.20044 ppb v/v |
| | | | | | | | n-Butanol | 0.20044 ppb v/v |
| | | | | | | | n-Butylbenzene | 0.20044 ppb v/v |
| | | | | | | | n-Decane | 0.20044 ppb v/v |
| | | | | | | | n-Heptane | 0.20044 ppb v/v |
| | | | | | | | n-Hexane | 0.20044 ppb v/v |
| | | | | | | | n-Nonane | 0.20044 ppb v/v |
| | | | | | | | n-Octane | 0.20044 ppb v/v |
| | | | | | | | n-Propylbenzene | 0.20044 ppb v/v |
| | | | | | | | Naphthalene | 0.20044 ppb v/v |
| | | | | | | | o-Xylene | 0.20044 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Pentane | 0.20044 ppb v/v |
| | | | | | | | Propene | 0.20044 ppb v/v |
| | | | | | | | sec-Butylbenzene | 0.20044 ppb v/v |
| | | | | | | | Styrene | 0.20044 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 0.20044 ppb v/v |
| | | | | | | | tert-Butylbenzene | 0.20044 ppb v/v |
| | | | | | | | Tetrachloroethene | 0.20044 ppb v/v |
| | | | | | | | Tetrahydrofuran | 0.20044 ppb v/v |
| | | | | | | | Toluene | 0.20044 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 0.20044 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 0.20044 ppb v/v |
| | | | | | | | Trichloroethene | 0.20044 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 0.20044 ppb v/v |
| | | | | | | | Undecane | 0.20044 ppb v/v |
| | | | | | | | Vinyl acetate | 0.20044 ppb v/v |
| | | | | | | | Vinyl chloride | 0.20044 ppb v/v |
| | | | | | | | Ethanol | 0.400944 ppb v/v |
| .ATTO15CAL6w_00158 | 12/07/18 | 09/11/18 | Nitrogen, Lot 1 | 15.463 L | ATTO15CALSTKi_00103 | 1546 mL | 1,1,1-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,4-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Butadiene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dioxane | 19.9961 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 19.9961 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 19.9961 ppb v/v |
| | | | | | | | 2-Methylbutane | 19.9961 ppb v/v |
| | | | | | | | 3-Chloropropene | 19.9961 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
| | | | | | | | Acetone | 19.9961 ppb v/v |
| | | | | | | | Acetonitrile | 19.9961 ppb v/v |
| | | | | | | | Acrolein | 19.9961 ppb v/v |
| | | | | | | | Acrylonitrile | 19.9961 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 19.9961 ppb v/v |
| | | | | | | | Benzene | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzyl chloride | 19.9961 ppb v/v |
| | | | | | | | Bromodichloromethane | 19.9961 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 19.9961 ppb v/v |
| | | | | | | | Bromoform | 19.9961 ppb v/v |
| | | | | | | | Bromomethane | 19.9961 ppb v/v |
| | | | | | | | Carbon disulfide | 19.9961 ppb v/v |
| | | | | | | | Carbon tetrachloride | 19.9961 ppb v/v |
| | | | | | | | Chlorobenzene | 19.9961 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Chloroethane | 19.9961 ppb v/v |
| | | | | | | | Chloroform | 19.9961 ppb v/v |
| | | | | | | | Chloromethane | 19.9961 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Cumene | 19.9961 ppb v/v |
| | | | | | | | Cyclohexane | 19.9961 ppb v/v |
| | | | | | | | Dibromochloromethane | 19.9961 ppb v/v |
| | | | | | | | Dibromomethane | 19.9961 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Dodecane | 19.9961 ppb v/v |
| | | | | | | | Ethyl acetate | 19.9961 ppb v/v |
| | | | | | | | Ethyl ether | 19.9961 ppb v/v |
| | | | | | | | Ethylbenzene | 19.9961 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 19.9961 ppb v/v |
| | | | | | | | Isopropyl alcohol | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | m,p-Xylene | 39.9922 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl methacrylate | 19.9961 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 19.9961 ppb v/v |
| | | | | | | | Methylene Chloride | 19.9961 ppb v/v |
| | | | | | | | n-Butane | 19.9961 ppb v/v |
| | | | | | | | n-Butanol | 19.9961 ppb v/v |
| | | | | | | | n-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | n-Decane | 19.9961 ppb v/v |
| | | | | | | | n-Heptane | 19.9961 ppb v/v |
| | | | | | | | n-Hexane | 19.9961 ppb v/v |
| | | | | | | | n-Nonane | 19.9961 ppb v/v |
| | | | | | | | n-Octane | 19.9961 ppb v/v |
| | | | | | | | n-Propylbenzene | 19.9961 ppb v/v |
| | | | | | | | Naphthalene | 19.9961 ppb v/v |
| | | | | | | | o-Xylene | 19.9961 ppb v/v |
| | | | | | | | Pentane | 19.9961 ppb v/v |
| | | | | | | | Propene | 19.9961 ppb v/v |
| | | | | | | | sec-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Styrene | 19.9961 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 19.9961 ppb v/v |
| | | | | | | | tert-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Tetrachloroethene | 19.9961 ppb v/v |
| | | | | | | | Tetrahydrofuran | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Toluene | 19.9961 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Trichloroethene | 19.9961 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 19.9961 ppb v/v |
| | | | | | | | Undecane | 19.9961 ppb v/v |
| | | | | | | | Vinyl acetate | 19.9961 ppb v/v |
| | | | | | | | Vinyl chloride | 19.9961 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 1237 mL | Ethanol | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ...ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| ..ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ...ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL1w_00200** | 12/23/18 | 11/24/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CAL6w_00161 | 155 mL | 1,1,1-Trichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 0.20044 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 0.20044 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 0.20044 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 0.20044 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 0.20044 ppb v/v |
| | | | | | | | 1,3-Butadiene | 0.20044 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Dichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 0.20044 ppb v/v |
| | | | | | | | 1,4-Dioxane | 0.20044 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 0.20044 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 0.20044 ppb v/v |
| | | | | | | | 2-Methylbutane | 0.20044 ppb v/v |
| | | | | | | | 3-Chloropropene | 0.20044 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 0.20044 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 0.20044 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.20044 ppb v/v |
| | | | | | | | Acetone | 0.20044 ppb v/v |
| | | | | | | | Acetonitrile | 0.20044 ppb v/v |
| | | | | | | | Acrolein | 0.20044 ppb v/v |
| | | | | | | | Acrylonitrile | 0.20044 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 0.20044 ppb v/v |
| | | | | | | | Benzene | 0.20044 ppb v/v |
| | | | | | | | Benzyl chloride | 0.20044 ppb v/v |
| | | | | | | | Bromodichloromethane | 0.20044 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 0.20044 ppb v/v |
| | | | | | | | Bromoform | 0.20044 ppb v/v |
| | | | | | | | Bromomethane | 0.20044 ppb v/v |
| | | | | | | | Carbon disulfide | 0.20044 ppb v/v |
| | | | | | | | Carbon tetrachloride | 0.20044 ppb v/v |
| | | | | | | | Chlorobenzene | 0.20044 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 0.20044 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chloroethane | 0.20044 ppb v/v |
| | | | | | | | Chloroform | 0.20044 ppb v/v |
| | | | | | | | Chloromethane | 0.20044 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 0.20044 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 0.20044 ppb v/v |
| | | | | | | | Cumene | 0.20044 ppb v/v |
| | | | | | | | Cyclohexane | 0.20044 ppb v/v |
| | | | | | | | Dibromochloromethane | 0.20044 ppb v/v |
| | | | | | | | Dibromomethane | 0.20044 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 0.20044 ppb v/v |
| | | | | | | | Dodecane | 0.20044 ppb v/v |
| | | | | | | | Ethyl acetate | 0.20044 ppb v/v |
| | | | | | | | Ethyl ether | 0.20044 ppb v/v |
| | | | | | | | Ethylbenzene | 0.20044 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 0.20044 ppb v/v |
| | | | | | | | Isopropyl alcohol | 0.20044 ppb v/v |
| | | | | | | | m,p-Xylene | 0.400879 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 0.20044 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 0.20044 ppb v/v |
| | | | | | | | Methyl methacrylate | 0.20044 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 0.20044 ppb v/v |
| | | | | | | | Methylene Chloride | 0.20044 ppb v/v |
| | | | | | | | n-Butane | 0.20044 ppb v/v |
| | | | | | | | n-Butanol | 0.20044 ppb v/v |
| | | | | | | | n-Butylbenzene | 0.20044 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Decane | 0.20044 ppb v/v |
| | | | | | | | n-Heptane | 0.20044 ppb v/v |
| | | | | | | | n-Hexane | 0.20044 ppb v/v |
| | | | | | | | n-Nonane | 0.20044 ppb v/v |
| | | | | | | | n-Octane | 0.20044 ppb v/v |
| | | | | | | | n-Propylbenzene | 0.20044 ppb v/v |
| | | | | | | | Naphthalene | 0.20044 ppb v/v |
| | | | | | | | o-Xylene | 0.20044 ppb v/v |
| | | | | | | | Pentane | 0.20044 ppb v/v |
| | | | | | | | Propene | 0.20044 ppb v/v |
| | | | | | | | sec-Butylbenzene | 0.20044 ppb v/v |
| | | | | | | | Styrene | 0.20044 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 0.20044 ppb v/v |
| | | | | | | | tert-Butylbenzene | 0.20044 ppb v/v |
| | | | | | | | Tetrachloroethene | 0.20044 ppb v/v |
| | | | | | | | Tetrahydrofuran | 0.20044 ppb v/v |
| | | | | | | | Toluene | 0.20044 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 0.20044 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 0.20044 ppb v/v |
| | | | | | | | Trichloroethene | 0.20044 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 0.20044 ppb v/v |
| | | | | | | | Undecane | 0.20044 ppb v/v |
| | | | | | | | Vinyl acetate | 0.20044 ppb v/v |
| | | | | | | | Vinyl chloride | 0.20044 ppb v/v |
| | | | | | | | Ethanol | 0.400944 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .ATTO15CAL6w_00161 | 12/23/18 | 11/23/18 | Nitrogen, Lot 1 | 15.463 L | ATTO15CALSTKi_00106 | 1546 mL | 1,1,1-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Butadiene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dioxane | 19.9961 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 19.9961 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 19.9961 ppb v/v |
| | | | | | | | 2-Methylbutane | 19.9961 ppb v/v |
| | | | | | | | 3-Chloropropene | 19.9961 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Isopropyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
| | | | | | | | Acetone | 19.9961 ppb v/v |
| | | | | | | | Acetonitrile | 19.9961 ppb v/v |
| | | | | | | | Acrolein | 19.9961 ppb v/v |
| | | | | | | | Acrylonitrile | 19.9961 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 19.9961 ppb v/v |
| | | | | | | | Benzene | 19.9961 ppb v/v |
| | | | | | | | Benzyl chloride | 19.9961 ppb v/v |
| | | | | | | | Bromodichloromethane | 19.9961 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 19.9961 ppb v/v |
| | | | | | | | Bromoform | 19.9961 ppb v/v |
| | | | | | | | Bromomethane | 19.9961 ppb v/v |
| | | | | | | | Carbon disulfide | 19.9961 ppb v/v |
| | | | | | | | Carbon tetrachloride | 19.9961 ppb v/v |
| | | | | | | | Chlorobenzene | 19.9961 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Chloroethane | 19.9961 ppb v/v |
| | | | | | | | Chloroform | 19.9961 ppb v/v |
| | | | | | | | Chloromethane | 19.9961 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Cumene | 19.9961 ppb v/v |
| | | | | | | | Cyclohexane | 19.9961 ppb v/v |
| | | | | | | | Dibromochloromethane | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dibromomethane | 19.9961 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Dodecane | 19.9961 ppb v/v |
| | | | | | | | Ethyl acetate | 19.9961 ppb v/v |
| | | | | | | | Ethyl ether | 19.9961 ppb v/v |
| | | | | | | | Ethylbenzene | 19.9961 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 19.9961 ppb v/v |
| | | | | | | | Isopropyl alcohol | 19.9961 ppb v/v |
| | | | | | | | m,p-Xylene | 39.9922 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl methacrylate | 19.9961 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 19.9961 ppb v/v |
| | | | | | | | Methylene Chloride | 19.9961 ppb v/v |
| | | | | | | | n-Butane | 19.9961 ppb v/v |
| | | | | | | | n-Butanol | 19.9961 ppb v/v |
| | | | | | | | n-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | n-Decane | 19.9961 ppb v/v |
| | | | | | | | n-Heptane | 19.9961 ppb v/v |
| | | | | | | | n-Hexane | 19.9961 ppb v/v |
| | | | | | | | n-Nonane | 19.9961 ppb v/v |
| | | | | | | | n-Octane | 19.9961 ppb v/v |
| | | | | | | | n-Propylbenzene | 19.9961 ppb v/v |
| | | | | | | | Naphthalene | 19.9961 ppb v/v |
| | | | | | | | o-Xylene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Pentane | 19.9961 ppb v/v |
| | | | | | | | Propene | 19.9961 ppb v/v |
| | | | | | | | sec-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Styrene | 19.9961 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 19.9961 ppb v/v |
| | | | | | | | tert-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Tetrachloroethene | 19.9961 ppb v/v |
| | | | | | | | Tetrahydrofuran | 19.9961 ppb v/v |
| | | | | | | | Toluene | 19.9961 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Trichloroethene | 19.9961 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 19.9961 ppb v/v |
| | | | | | | | Undecane | 19.9961 ppb v/v |
| | | | | | | | Vinyl acetate | 19.9961 ppb v/v |
| | | | | | | | Vinyl chloride | 19.9961 ppb v/v |
| | | | | | ATTO15EthCALw_00101 | 1237 mL | Ethanol | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ...ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| ..ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ...ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL2w_00271** | 12/07/18 | 09/11/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CAL6w_00158 | 387 mL | 1,1,1-Trichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 0.500453 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 0.500453 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 0.500453 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,4-Trimethylbenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 0.500453 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 0.500453 ppb v/v |
| | | | | | | | 1,3-Butadiene | 0.500453 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,4-Dioxane | 0.500453 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 0.500453 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 0.500453 ppb v/v |
| | | | | | | | 2-Methylbutane | 0.500453 ppb v/v |
| | | | | | | | 3-Chloropropene | 0.500453 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 0.500453 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 0.500453 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.500453 ppb v/v |
| | | | | | | | Acetone | 0.500453 ppb v/v |
| | | | | | | | Acetonitrile | 0.500453 ppb v/v |
| | | | | | | | Acrolein | 0.500453 ppb v/v |
| | | | | | | | Acrylonitrile | 0.500453 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 0.500453 ppb v/v |
| | | | | | | | Benzene | 0.500453 ppb v/v |
| | | | | | | | Benzyl chloride | 0.500453 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Bromodichloromethane | 0.500453 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 0.500453 ppb v/v |
| | | | | | | | Bromoform | 0.500453 ppb v/v |
| | | | | | | | Bromomethane | 0.500453 ppb v/v |
| | | | | | | | Carbon disulfide | 0.500453 ppb v/v |
| | | | | | | | Carbon tetrachloride | 0.500453 ppb v/v |
| | | | | | | | Chlorobenzene | 0.500453 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 0.500453 ppb v/v |
| | | | | | | | Chloroethane | 0.500453 ppb v/v |
| | | | | | | | Chloroform | 0.500453 ppb v/v |
| | | | | | | | Chloromethane | 0.500453 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 0.500453 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 0.500453 ppb v/v |
| | | | | | | | Cumene | 0.500453 ppb v/v |
| | | | | | | | Cyclohexane | 0.500453 ppb v/v |
| | | | | | | | Dibromochloromethane | 0.500453 ppb v/v |
| | | | | | | | Dibromomethane | 0.500453 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 0.500453 ppb v/v |
| | | | | | | | Dodecane | 0.500453 ppb v/v |
| | | | | | | | Ethyl acetate | 0.500453 ppb v/v |
| | | | | | | | Ethyl ether | 0.500453 ppb v/v |
| | | | | | | | Ethylbenzene | 0.500453 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 0.500453 ppb v/v |
| | | | | | | | Isopropyl alcohol | 0.500453 ppb v/v |
| | | | | | | | m,p-Xylene | 1.00091 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 0.500453 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 0.500453 ppb v/v |
| | | | | | | | Methyl methacrylate | 0.500453 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 0.500453 ppb v/v |
| | | | | | | | Methylene Chloride | 0.500453 ppb v/v |
| | | | | | | | n-Butane | 0.500453 ppb v/v |
| | | | | | | | n-Butanol | 0.500453 ppb v/v |
| | | | | | | | n-Butylbenzene | 0.500453 ppb v/v |
| | | | | | | | n-Decane | 0.500453 ppb v/v |
| | | | | | | | n-Heptane | 0.500453 ppb v/v |
| | | | | | | | n-Hexane | 0.500453 ppb v/v |
| | | | | | | | n-Nonane | 0.500453 ppb v/v |
| | | | | | | | n-Octane | 0.500453 ppb v/v |
| | | | | | | | n-Propylbenzene | 0.500453 ppb v/v |
| | | | | | | | Naphthalene | 0.500453 ppb v/v |
| | | | | | | | o-Xylene | 0.500453 ppb v/v |
| | | | | | | | Pentane | 0.500453 ppb v/v |
| | | | | | | | Propene | 0.500453 ppb v/v |
| | | | | | | | sec-Butylbenzene | 0.500453 ppb v/v |
| | | | | | | | Styrene | 0.500453 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 0.500453 ppb v/v |
| | | | | | | | tert-Butylbenzene | 0.500453 ppb v/v |
| | | | | | | | Tetrachloroethene | 0.500453 ppb v/v |
| | | | | | | | Tetrahydrofuran | 0.500453 ppb v/v |
| | | | | | | | Toluene | 0.500453 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | trans-1,2-Dichloroethene | 0.500453 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 0.500453 ppb v/v |
| | | | | | | | Trichloroethene | 0.500453 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 0.500453 ppb v/v |
| | | | | | | | Undecane | 0.500453 ppb v/v |
| | | | | | | | Vinyl acetate | 0.500453 ppb v/v |
| | | | | | | | Vinyl chloride | 0.500453 ppb v/v |
| | | | | | | | Ethanol | 5.01064 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 124 mL | Ethanol | 5.01064 ppb v/v |
| .ATTO15CAL6w_00158 | 12/07/18 | 09/11/18 | Nitrogen, Lot 1 | 15.463 L | ATTO15CALSTKi_00103 | 1546 mL | 1,1,1-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Butadiene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dioxane | 19.9961 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 19.9961 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 19.9961 ppb v/v |
| | | | | | | | 2-Methylbutane | 19.9961 ppb v/v |
| | | | | | | | 3-Chloropropene | 19.9961 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
| | | | | | | | Acetone | 19.9961 ppb v/v |
| | | | | | | | Acetonitrile | 19.9961 ppb v/v |
| | | | | | | | Acrolein | 19.9961 ppb v/v |
| | | | | | | | Acrylonitrile | 19.9961 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 19.9961 ppb v/v |
| | | | | | | | Benzene | 19.9961 ppb v/v |
| | | | | | | | Benzyl chloride | 19.9961 ppb v/v |
| | | | | | | | Bromodichloromethane | 19.9961 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 19.9961 ppb v/v |
| | | | | | | | Bromoform | 19.9961 ppb v/v |
| | | | | | | | Bromomethane | 19.9961 ppb v/v |
| | | | | | | | Carbon disulfide | 19.9961 ppb v/v |
| | | | | | | | Carbon tetrachloride | 19.9961 ppb v/v |
| | | | | | | | Chlorobenzene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Chloroethane | 19.9961 ppb v/v |
| | | | | | | | Chloroform | 19.9961 ppb v/v |
| | | | | | | | Chloromethane | 19.9961 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Cumene | 19.9961 ppb v/v |
| | | | | | | | Cyclohexane | 19.9961 ppb v/v |
| | | | | | | | Dibromochloromethane | 19.9961 ppb v/v |
| | | | | | | | Dibromomethane | 19.9961 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Dodecane | 19.9961 ppb v/v |
| | | | | | | | Ethyl acetate | 19.9961 ppb v/v |
| | | | | | | | Ethyl ether | 19.9961 ppb v/v |
| | | | | | | | Ethylbenzene | 19.9961 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 19.9961 ppb v/v |
| | | | | | | | Isopropyl alcohol | 19.9961 ppb v/v |
| | | | | | | | m,p-Xylene | 39.9922 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl methacrylate | 19.9961 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 19.9961 ppb v/v |
| | | | | | | | Methylene Chloride | 19.9961 ppb v/v |
| | | | | | | | n-Butane | 19.9961 ppb v/v |
| | | | | | | | n-Butanol | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | n-Decane | 19.9961 ppb v/v |
| | | | | | | | n-Heptane | 19.9961 ppb v/v |
| | | | | | | | n-Hexane | 19.9961 ppb v/v |
| | | | | | | | n-Nonane | 19.9961 ppb v/v |
| | | | | | | | n-Octane | 19.9961 ppb v/v |
| | | | | | | | n-Propylbenzene | 19.9961 ppb v/v |
| | | | | | | | Naphthalene | 19.9961 ppb v/v |
| | | | | | | | o-Xylene | 19.9961 ppb v/v |
| | | | | | | | Pentane | 19.9961 ppb v/v |
| | | | | | | | Propene | 19.9961 ppb v/v |
| | | | | | | | sec-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Styrene | 19.9961 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 19.9961 ppb v/v |
| | | | | | | | tert-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Tetrachloroethene | 19.9961 ppb v/v |
| | | | | | | | Tetrahydrofuran | 19.9961 ppb v/v |
| | | | | | | | Toluene | 19.9961 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Trichloroethene | 19.9961 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 19.9961 ppb v/v |
| | | | | | | | Undecane | 19.9961 ppb v/v |
| | | | | | | | Vinyl acetate | 19.9961 ppb v/v |
| | | | | | | | Vinyl chloride | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | ATTO15EthCALw_00098 | 1237 mL | Ethanol | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ...ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| ..ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ...ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| .ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL2w_00274** | 12/23/18 | 11/24/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CAL6w_00161 | 387 mL | 1,1,1-Trichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 0.500453 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 0.500453 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 0.500453 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 0.500453 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 0.500453 ppb v/v |
| | | | | | | | 1,3-Butadiene | 0.500453 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 0.500453 ppb v/v |
| | | | | | | | 1,4-Dioxane | 0.500453 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 0.500453 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 0.500453 ppb v/v |
| | | | | | | | 2-Methylbutane | 0.500453 ppb v/v |
| | | | | | | | 3-Chloropropene | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Ethyltoluene | 0.500453 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 0.500453 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.500453 ppb v/v |
| | | | | | | | Acetone | 0.500453 ppb v/v |
| | | | | | | | Acetonitrile | 0.500453 ppb v/v |
| | | | | | | | Acrolein | 0.500453 ppb v/v |
| | | | | | | | Acrylonitrile | 0.500453 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 0.500453 ppb v/v |
| | | | | | | | Benzene | 0.500453 ppb v/v |
| | | | | | | | Benzyl chloride | 0.500453 ppb v/v |
| | | | | | | | Bromodichloromethane | 0.500453 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 0.500453 ppb v/v |
| | | | | | | | Bromoform | 0.500453 ppb v/v |
| | | | | | | | Bromomethane | 0.500453 ppb v/v |
| | | | | | | | Carbon disulfide | 0.500453 ppb v/v |
| | | | | | | | Carbon tetrachloride | 0.500453 ppb v/v |
| | | | | | | | Chlorobenzene | 0.500453 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 0.500453 ppb v/v |
| | | | | | | | Chloroethane | 0.500453 ppb v/v |
| | | | | | | | Chloroform | 0.500453 ppb v/v |
| | | | | | | | Chloromethane | 0.500453 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 0.500453 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 0.500453 ppb v/v |
| | | | | | | | Cumene | 0.500453 ppb v/v |
| | | | | | | | Cyclohexane | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dibromochloromethane | 0.500453 ppb v/v |
| | | | | | | | Dibromomethane | 0.500453 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 0.500453 ppb v/v |
| | | | | | | | Dodecane | 0.500453 ppb v/v |
| | | | | | | | Ethyl acetate | 0.500453 ppb v/v |
| | | | | | | | Ethyl ether | 0.500453 ppb v/v |
| | | | | | | | Ethylbenzene | 0.500453 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 0.500453 ppb v/v |
| | | | | | | | Isopropyl alcohol | 0.500453 ppb v/v |
| | | | | | | | m,p-Xylene | 1.00091 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 0.500453 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 0.500453 ppb v/v |
| | | | | | | | Methyl methacrylate | 0.500453 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 0.500453 ppb v/v |
| | | | | | | | Methylene Chloride | 0.500453 ppb v/v |
| | | | | | | | n-Butane | 0.500453 ppb v/v |
| | | | | | | | n-Butanol | 0.500453 ppb v/v |
| | | | | | | | n-Butylbenzene | 0.500453 ppb v/v |
| | | | | | | | n-Decane | 0.500453 ppb v/v |
| | | | | | | | n-Heptane | 0.500453 ppb v/v |
| | | | | | | | n-Hexane | 0.500453 ppb v/v |
| | | | | | | | n-Nonane | 0.500453 ppb v/v |
| | | | | | | | n-Octane | 0.500453 ppb v/v |
| | | | | | | | n-Propylbenzene | 0.500453 ppb v/v |
| | | | | | | | Naphthalene | 0.500453 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | o-Xylene | 0.500453 ppb v/v |
| | | | | | | | Pentane | 0.500453 ppb v/v |
| | | | | | | | Propene | 0.500453 ppb v/v |
| | | | | | | | sec-Butylbenzene | 0.500453 ppb v/v |
| | | | | | | | Styrene | 0.500453 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 0.500453 ppb v/v |
| | | | | | | | tert-Butylbenzene | 0.500453 ppb v/v |
| | | | | | | | Tetrachloroethene | 0.500453 ppb v/v |
| | | | | | | | Tetrahydrofuran | 0.500453 ppb v/v |
| | | | | | | | Toluene | 0.500453 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 0.500453 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 0.500453 ppb v/v |
| | | | | | | | Trichloroethene | 0.500453 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 0.500453 ppb v/v |
| | | | | | | | Undecane | 0.500453 ppb v/v |
| | | | | | | | Vinyl acetate | 0.500453 ppb v/v |
| | | | | | | | Vinyl chloride | 0.500453 ppb v/v |
| | | | | | | | Ethanol | 5.01064 ppb v/v |
| | | | | | ATTO15EthCALw_00101 | 124 mL | Ethanol | 5.01064 ppb v/v |
| .ATTO15CAL6w_00161 | 12/23/18 | 11/23/18 | Nitrogen, Lot 1 | 15.463 L | ATTO15CALSTKi_00106 | 1546 mL | 1,1,1-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,3-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Butadiene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dioxane | 19.9961 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 19.9961 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 19.9961 ppb v/v |
| | | | | | | | 2-Methylbutane | 19.9961 ppb v/v |
| | | | | | | | 3-Chloropropene | 19.9961 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
| | | | | | | | Acetone | 19.9961 ppb v/v |
| | | | | | | | Acetonitrile | 19.9961 ppb v/v |
| | | | | | | | Acrolein | 19.9961 ppb v/v |
| | | | | | | | Acrylonitrile | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Alpha Methyl Styrene | 19.9961 ppb v/v |
| | | | | | | | Benzene | 19.9961 ppb v/v |
| | | | | | | | Benzyl chloride | 19.9961 ppb v/v |
| | | | | | | | Bromodichloromethane | 19.9961 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 19.9961 ppb v/v |
| | | | | | | | Bromoform | 19.9961 ppb v/v |
| | | | | | | | Bromomethane | 19.9961 ppb v/v |
| | | | | | | | Carbon disulfide | 19.9961 ppb v/v |
| | | | | | | | Carbon tetrachloride | 19.9961 ppb v/v |
| | | | | | | | Chlorobenzene | 19.9961 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Chloroethane | 19.9961 ppb v/v |
| | | | | | | | Chloroform | 19.9961 ppb v/v |
| | | | | | | | Chloromethane | 19.9961 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Cumene | 19.9961 ppb v/v |
| | | | | | | | Cyclohexane | 19.9961 ppb v/v |
| | | | | | | | Dibromochloromethane | 19.9961 ppb v/v |
| | | | | | | | Dibromomethane | 19.9961 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Dodecane | 19.9961 ppb v/v |
| | | | | | | | Ethyl acetate | 19.9961 ppb v/v |
| | | | | | | | Ethyl ether | 19.9961 ppb v/v |
| | | | | | | | Ethylbenzene | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachlorobutadiene | 19.9961 ppb v/v |
| | | | | | | | Isopropyl alcohol | 19.9961 ppb v/v |
| | | | | | | | m,p-Xylene | 39.9922 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl methacrylate | 19.9961 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 19.9961 ppb v/v |
| | | | | | | | Methylene Chloride | 19.9961 ppb v/v |
| | | | | | | | n-Butane | 19.9961 ppb v/v |
| | | | | | | | n-Butanol | 19.9961 ppb v/v |
| | | | | | | | n-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | n-Decane | 19.9961 ppb v/v |
| | | | | | | | n-Heptane | 19.9961 ppb v/v |
| | | | | | | | n-Hexane | 19.9961 ppb v/v |
| | | | | | | | n-Nonane | 19.9961 ppb v/v |
| | | | | | | | n-Octane | 19.9961 ppb v/v |
| | | | | | | | n-Propylbenzene | 19.9961 ppb v/v |
| | | | | | | | Naphthalene | 19.9961 ppb v/v |
| | | | | | | | o-Xylene | 19.9961 ppb v/v |
| | | | | | | | Pentane | 19.9961 ppb v/v |
| | | | | | | | Propene | 19.9961 ppb v/v |
| | | | | | | | sec-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Styrene | 19.9961 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 19.9961 ppb v/v |
| | | | | | | | tert-Butylbenzene | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Tetrachloroethene | 19.9961 ppb v/v |
| | | | | | | | Tetrahydrofuran | 19.9961 ppb v/v |
| | | | | | | | Toluene | 19.9961 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Trichloroethene | 19.9961 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 19.9961 ppb v/v |
| | | | | | | | Undecane | 19.9961 ppb v/v |
| | | | | | | | Vinyl acetate | 19.9961 ppb v/v |
| | | | | | | | Vinyl chloride | 19.9961 ppb v/v |
| | | | | | ATTO15EthCALw_00101 | 1237 mL | Ethanol | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ...ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| ..ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ...ATTO15EthCALs_00009 | 09/05/21 | | Chem Service, Lot 5301900 | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| .ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | | Chem Service, Lot 5301900 | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL3w_00206** | 12/07/18 | 09/10/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00103 | 386 mL | 1,1,1-Trichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 4.99256 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 4.99256 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 4.99256 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dichloropropane | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 4.99256 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 4.99256 ppb v/v |
| | | | | | | | 1,3-Butadiene | 4.99256 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,4-Dioxane | 4.99256 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 4.99256 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 4.99256 ppb v/v |
| | | | | | | | 2-Methylbutane | 4.99256 ppb v/v |
| | | | | | | | 3-Chloropropene | 4.99256 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 4.99256 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 4.99256 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 4.99256 ppb v/v |
| | | | | | | | Acetone | 4.99256 ppb v/v |
| | | | | | | | Acetonitrile | 4.99256 ppb v/v |
| | | | | | | | Acrolein | 4.99256 ppb v/v |
| | | | | | | | Acrylonitrile | 4.99256 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 4.99256 ppb v/v |
| | | | | | | | Benzene | 4.99256 ppb v/v |
| | | | | | | | Benzyl chloride | 4.99256 ppb v/v |
| | | | | | | | Bromodichloromethane | 4.99256 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 4.99256 ppb v/v |
| | | | | | | | Bromoform | 4.99256 ppb v/v |
| | | | | | | | Bromomethane | 4.99256 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Carbon disulfide | 4.99256 ppb v/v |
| | | | | | | | Carbon tetrachloride | 4.99256 ppb v/v |
| | | | | | | | Chlorobenzene | 4.99256 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 4.99256 ppb v/v |
| | | | | | | | Chloroethane | 4.99256 ppb v/v |
| | | | | | | | Chloroform | 4.99256 ppb v/v |
| | | | | | | | Chloromethane | 4.99256 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 4.99256 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 4.99256 ppb v/v |
| | | | | | | | Cumene | 4.99256 ppb v/v |
| | | | | | | | Cyclohexane | 4.99256 ppb v/v |
| | | | | | | | Dibromochloromethane | 4.99256 ppb v/v |
| | | | | | | | Dibromomethane | 4.99256 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 4.99256 ppb v/v |
| | | | | | | | Dodecane | 4.99256 ppb v/v |
| | | | | | | | Ethyl acetate | 4.99256 ppb v/v |
| | | | | | | | Ethyl ether | 4.99256 ppb v/v |
| | | | | | | | Ethylbenzene | 4.99256 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 4.99256 ppb v/v |
| | | | | | | | Isopropyl alcohol | 4.99256 ppb v/v |
| | | | | | | | m,p-Xylene | 9.98513 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 4.99256 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 4.99256 ppb v/v |
| | | | | | | | Methyl methacrylate | 4.99256 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 4.99256 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methylene Chloride | 4.99256 ppb v/v |
| | | | | | | | n-Butane | 4.99256 ppb v/v |
| | | | | | | | n-Butanol | 4.99256 ppb v/v |
| | | | | | | | n-Butylbenzene | 4.99256 ppb v/v |
| | | | | | | | n-Decane | 4.99256 ppb v/v |
| | | | | | | | n-Heptane | 4.99256 ppb v/v |
| | | | | | | | n-Hexane | 4.99256 ppb v/v |
| | | | | | | | n-Nonane | 4.99256 ppb v/v |
| | | | | | | | n-Octane | 4.99256 ppb v/v |
| | | | | | | | n-Propylbenzene | 4.99256 ppb v/v |
| | | | | | | | Naphthalene | 4.99256 ppb v/v |
| | | | | | | | o-Xylene | 4.99256 ppb v/v |
| | | | | | | | Pentane | 4.99256 ppb v/v |
| | | | | | | | Propene | 4.99256 ppb v/v |
| | | | | | | | sec-Butylbenzene | 4.99256 ppb v/v |
| | | | | | | | Styrene | 4.99256 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 4.99256 ppb v/v |
| | | | | | | | tert-Butylbenzene | 4.99256 ppb v/v |
| | | | | | | | Tetrachloroethene | 4.99256 ppb v/v |
| | | | | | | | Tetrahydrofuran | 4.99256 ppb v/v |
| | | | | | | | Toluene | 4.99256 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 4.99256 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 4.99256 ppb v/v |
| | | | | | | | Trichloroethene | 4.99256 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 4.99256 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Undecane | 4.99256 ppb v/v |
| | | | | | | | Vinyl acetate | 4.99256 ppb v/v |
| | | | | | | | Vinyl chloride | 4.99256 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 309 mL | Ethanol | 9.99159 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL3w_00210** | 12/23/18 | 11/23/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00106 | 386 mL | 1,1,1-Trichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 4.99256 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 4.99256 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 4.99256 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 4.99256 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 4.99256 ppb v/v |
| | | | | | | | 1,3-Butadiene | 4.99256 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 4.99256 ppb v/v |
| | | | | | | | 1,4-Dioxane | 4.99256 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 4.99256 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 4.99256 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Methylbutane | 4.99256 ppb v/v |
| | | | | | | | 3-Chloropropene | 4.99256 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 4.99256 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 4.99256 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 4.99256 ppb v/v |
| | | | | | | | Acetone | 4.99256 ppb v/v |
| | | | | | | | Acetonitrile | 4.99256 ppb v/v |
| | | | | | | | Acrolein | 4.99256 ppb v/v |
| | | | | | | | Acrylonitrile | 4.99256 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 4.99256 ppb v/v |
| | | | | | | | Benzene | 4.99256 ppb v/v |
| | | | | | | | Benzyl chloride | 4.99256 ppb v/v |
| | | | | | | | Bromodichloromethane | 4.99256 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 4.99256 ppb v/v |
| | | | | | | | Bromoform | 4.99256 ppb v/v |
| | | | | | | | Bromomethane | 4.99256 ppb v/v |
| | | | | | | | Carbon disulfide | 4.99256 ppb v/v |
| | | | | | | | Carbon tetrachloride | 4.99256 ppb v/v |
| | | | | | | | Chlorobenzene | 4.99256 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 4.99256 ppb v/v |
| | | | | | | | Chloroethane | 4.99256 ppb v/v |
| | | | | | | | Chloroform | 4.99256 ppb v/v |
| | | | | | | | Chloromethane | 4.99256 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 4.99256 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 4.99256 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cumene | 4.99256 ppb v/v |
| | | | | | | | Cyclohexane | 4.99256 ppb v/v |
| | | | | | | | Dibromochloromethane | 4.99256 ppb v/v |
| | | | | | | | Dibromomethane | 4.99256 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 4.99256 ppb v/v |
| | | | | | | | Dodecane | 4.99256 ppb v/v |
| | | | | | | | Ethyl acetate | 4.99256 ppb v/v |
| | | | | | | | Ethyl ether | 4.99256 ppb v/v |
| | | | | | | | Ethylbenzene | 4.99256 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 4.99256 ppb v/v |
| | | | | | | | Isopropyl alcohol | 4.99256 ppb v/v |
| | | | | | | | m,p-Xylene | 9.98513 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 4.99256 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 4.99256 ppb v/v |
| | | | | | | | Methyl methacrylate | 4.99256 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 4.99256 ppb v/v |
| | | | | | | | Methylene Chloride | 4.99256 ppb v/v |
| | | | | | | | n-Butane | 4.99256 ppb v/v |
| | | | | | | | n-Butanol | 4.99256 ppb v/v |
| | | | | | | | n-Butylbenzene | 4.99256 ppb v/v |
| | | | | | | | n-Decane | 4.99256 ppb v/v |
| | | | | | | | n-Heptane | 4.99256 ppb v/v |
| | | | | | | | n-Hexane | 4.99256 ppb v/v |
| | | | | | | | n-Nonane | 4.99256 ppb v/v |
| | | | | | | | n-Octane | 4.99256 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Propylbenzene | 4.99256 ppb v/v |
| | | | | | | | Naphthalene | 4.99256 ppb v/v |
| | | | | | | | o-Xylene | 4.99256 ppb v/v |
| | | | | | | | Pentane | 4.99256 ppb v/v |
| | | | | | | | Propene | 4.99256 ppb v/v |
| | | | | | | | sec-Butylbenzene | 4.99256 ppb v/v |
| | | | | | | | Styrene | 4.99256 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 4.99256 ppb v/v |
| | | | | | | | tert-Butylbenzene | 4.99256 ppb v/v |
| | | | | | | | Tetrachloroethene | 4.99256 ppb v/v |
| | | | | | | | Tetrahydrofuran | 4.99256 ppb v/v |
| | | | | | | | Toluene | 4.99256 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 4.99256 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 4.99256 ppb v/v |
| | | | | | | | Trichloroethene | 4.99256 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 4.99256 ppb v/v |
| | | | | | | | Undecane | 4.99256 ppb v/v |
| | | | | | | | Vinyl acetate | 4.99256 ppb v/v |
| | | | | | | | Vinyl chloride | 4.99256 ppb v/v |
| | | | | | ATTO15EthCALw_00101 | 309 mL | Ethanol | 9.99159 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL4w_00706** | 12/07/18 | 09/10/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00103 | 773 mL | 1,1,1-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,3-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Butadiene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dioxane | 9.99806 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 9.99806 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 9.99806 ppb v/v |
| | | | | | | | 2-Methylbutane | 9.99806 ppb v/v |
| | | | | | | | 3-Chloropropene | 9.99806 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
| | | | | | | | Acetone | 9.99806 ppb v/v |
| | | | | | | | Acetonitrile | 9.99806 ppb v/v |
| | | | | | | | Acrolein | 9.99806 ppb v/v |
| | | | | | | | Acrylonitrile | 9.99806 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Alpha Methyl Styrene | 9.99806 ppb v/v |
| | | | | | | | Benzene | 9.99806 ppb v/v |
| | | | | | | | Benzyl chloride | 9.99806 ppb v/v |
| | | | | | | | Bromodichloromethane | 9.99806 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 9.99806 ppb v/v |
| | | | | | | | Bromoform | 9.99806 ppb v/v |
| | | | | | | | Bromomethane | 9.99806 ppb v/v |
| | | | | | | | Carbon disulfide | 9.99806 ppb v/v |
| | | | | | | | Carbon tetrachloride | 9.99806 ppb v/v |
| | | | | | | | Chlorobenzene | 9.99806 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Chloroethane | 9.99806 ppb v/v |
| | | | | | | | Chloroform | 9.99806 ppb v/v |
| | | | | | | | Chloromethane | 9.99806 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Cumene | 9.99806 ppb v/v |
| | | | | | | | Cyclohexane | 9.99806 ppb v/v |
| | | | | | | | Dibromochloromethane | 9.99806 ppb v/v |
| | | | | | | | Dibromomethane | 9.99806 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Dodecane | 9.99806 ppb v/v |
| | | | | | | | Ethyl acetate | 9.99806 ppb v/v |
| | | | | | | | Ethyl ether | 9.99806 ppb v/v |
| | | | | | | | Ethylbenzene | 9.99806 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Hexachlorobutadiene | 9.99806 ppb v/v |
| | | | | | | | Isopropyl alcohol | 9.99806 ppb v/v |
| | | | | | | | m,p-Xylene | 19.9961 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl methacrylate | 9.99806 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 9.99806 ppb v/v |
| | | | | | | | Methylene Chloride | 9.99806 ppb v/v |
| | | | | | | | n-Butane | 9.99806 ppb v/v |
| | | | | | | | n-Butanol | 9.99806 ppb v/v |
| | | | | | | | n-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | n-Decane | 9.99806 ppb v/v |
| | | | | | | | n-Heptane | 9.99806 ppb v/v |
| | | | | | | | n-Hexane | 9.99806 ppb v/v |
| | | | | | | | n-Nonane | 9.99806 ppb v/v |
| | | | | | | | n-Octane | 9.99806 ppb v/v |
| | | | | | | | n-Propylbenzene | 9.99806 ppb v/v |
| | | | | | | | Naphthalene | 9.99806 ppb v/v |
| | | | | | | | o-Xylene | 9.99806 ppb v/v |
| | | | | | | | Pentane | 9.99806 ppb v/v |
| | | | | | | | Propene | 9.99806 ppb v/v |
| | | | | | | | sec-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Styrene | 9.99806 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 9.99806 ppb v/v |
| | | | | | | | tert-Butylbenzene | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Tetrachloroethene | 9.99806 ppb v/v |
| | | | | | | | Tetrahydrofuran | 9.99806 ppb v/v |
| | | | | | | | Toluene | 9.99806 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Trichloroethene | 9.99806 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 9.99806 ppb v/v |
| | | | | | | | Undecane | 9.99806 ppb v/v |
| | | | | | | | Vinyl acetate | 9.99806 ppb v/v |
| | | | | | | | Vinyl chloride | 9.99806 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 464 mL | Ethanol | 15.0036 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | | Chem Service, Lot 5301900 | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL4w_00715** | 12/23/18 | 11/23/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00106 | 773 mL | 1,1,1-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Butadiene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dioxane | 9.99806 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 9.99806 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 9.99806 ppb v/v |
| | | | | | | | 2-Methylbutane | 9.99806 ppb v/v |
| | | | | | | | 3-Chloropropene | 9.99806 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
| | | | | | | | Acetone | 9.99806 ppb v/v |
| | | | | | | | Acetonitrile | 9.99806 ppb v/v |
| | | | | | | | Acrolein | 9.99806 ppb v/v |
| | | | | | | | Acrylonitrile | 9.99806 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 9.99806 ppb v/v |
| | | | | | | | Benzene | 9.99806 ppb v/v |
| | | | | | | | Benzyl chloride | 9.99806 ppb v/v |
| | | | | | | | Bromodichloromethane | 9.99806 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 9.99806 ppb v/v |
| | | | | | | | Bromoform | 9.99806 ppb v/v |
| | | | | | | | Bromomethane | 9.99806 ppb v/v |
| | | | | | | | Carbon disulfide | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Carbon tetrachloride | 9.99806 ppb v/v |
| | | | | | | | Chlorobenzene | 9.99806 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Chloroethane | 9.99806 ppb v/v |
| | | | | | | | Chloroform | 9.99806 ppb v/v |
| | | | | | | | Chloromethane | 9.99806 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Cumene | 9.99806 ppb v/v |
| | | | | | | | Cyclohexane | 9.99806 ppb v/v |
| | | | | | | | Dibromochloromethane | 9.99806 ppb v/v |
| | | | | | | | Dibromomethane | 9.99806 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Dodecane | 9.99806 ppb v/v |
| | | | | | | | Ethyl acetate | 9.99806 ppb v/v |
| | | | | | | | Ethyl ether | 9.99806 ppb v/v |
| | | | | | | | Ethylbenzene | 9.99806 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 9.99806 ppb v/v |
| | | | | | | | Isopropyl alcohol | 9.99806 ppb v/v |
| | | | | | | | m,p-Xylene | 19.9961 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl methacrylate | 9.99806 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 9.99806 ppb v/v |
| | | | | | | | Methylene Chloride | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Butane | 9.99806 ppb v/v |
| | | | | | | | n-Butanol | 9.99806 ppb v/v |
| | | | | | | | n-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | n-Decane | 9.99806 ppb v/v |
| | | | | | | | n-Heptane | 9.99806 ppb v/v |
| | | | | | | | n-Hexane | 9.99806 ppb v/v |
| | | | | | | | n-Nonane | 9.99806 ppb v/v |
| | | | | | | | n-Octane | 9.99806 ppb v/v |
| | | | | | | | n-Propylbenzene | 9.99806 ppb v/v |
| | | | | | | | Naphthalene | 9.99806 ppb v/v |
| | | | | | | | o-Xylene | 9.99806 ppb v/v |
| | | | | | | | Pentane | 9.99806 ppb v/v |
| | | | | | | | Propene | 9.99806 ppb v/v |
| | | | | | | | sec-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Styrene | 9.99806 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 9.99806 ppb v/v |
| | | | | | | | tert-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Tetrachloroethene | 9.99806 ppb v/v |
| | | | | | | | Tetrahydrofuran | 9.99806 ppb v/v |
| | | | | | | | Toluene | 9.99806 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Trichloroethene | 9.99806 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 9.99806 ppb v/v |
| | | | | | | | Undecane | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Vinyl acetate | 9.99806 ppb v/v |
| | | | | | | | Vinyl chloride | 9.99806 ppb v/v |
| | | | | | ATTO15EthCALw_00101 | 464 mL | Ethanol | 15.0036 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL5w_00076** | 12/07/18 | 09/10/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00103 | 1160 mL | 1,1,1-Trichloroethane | 15.0036 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 15.0036 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 15.0036 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 15.0036 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 15.0036 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 15.0036 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 15.0036 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 15.0036 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 15.0036 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 15.0036 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 15.0036 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 15.0036 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 15.0036 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 15.0036 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 15.0036 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 15.0036 ppb v/v |
| | | | | | | | 1,3-Butadiene | 15.0036 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 15.0036 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 15.0036 ppb v/v |
| | | | | | | | 1,4-Dioxane | 15.0036 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 15.0036 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 15.0036 ppb v/v |
| | | | | | | | 2-Methylbutane | 15.0036 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 3-Chloropropene | 15.0036 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 15.0036 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 15.0036 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 15.0036 ppb v/v |
| | | | | | | | Acetone | 15.0036 ppb v/v |
| | | | | | | | Acetonitrile | 15.0036 ppb v/v |
| | | | | | | | Acrolein | 15.0036 ppb v/v |
| | | | | | | | Acrylonitrile | 15.0036 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 15.0036 ppb v/v |
| | | | | | | | Benzene | 15.0036 ppb v/v |
| | | | | | | | Benzyl chloride | 15.0036 ppb v/v |
| | | | | | | | Bromodichloromethane | 15.0036 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 15.0036 ppb v/v |
| | | | | | | | Bromoform | 15.0036 ppb v/v |
| | | | | | | | Bromomethane | 15.0036 ppb v/v |
| | | | | | | | Carbon disulfide | 15.0036 ppb v/v |
| | | | | | | | Carbon tetrachloride | 15.0036 ppb v/v |
| | | | | | | | Chlorobenzene | 15.0036 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 15.0036 ppb v/v |
| | | | | | | | Chloroethane | 15.0036 ppb v/v |
| | | | | | | | Chloroform | 15.0036 ppb v/v |
| | | | | | | | Chloromethane | 15.0036 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 15.0036 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 15.0036 ppb v/v |
| | | | | | | | Cumene | 15.0036 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cyclohexane | 15.0036 ppb v/v |
| | | | | | | | Dibromochloromethane | 15.0036 ppb v/v |
| | | | | | | | Dibromomethane | 15.0036 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 15.0036 ppb v/v |
| | | | | | | | Dodecane | 15.0036 ppb v/v |
| | | | | | | | Ethyl acetate | 15.0036 ppb v/v |
| | | | | | | | Ethyl ether | 15.0036 ppb v/v |
| | | | | | | | Ethylbenzene | 15.0036 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 15.0036 ppb v/v |
| | | | | | | | Isopropyl alcohol | 15.0036 ppb v/v |
| | | | | | | | m,p-Xylene | 30.0071 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 15.0036 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 15.0036 ppb v/v |
| | | | | | | | Methyl methacrylate | 15.0036 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 15.0036 ppb v/v |
| | | | | | | | Methylene Chloride | 15.0036 ppb v/v |
| | | | | | | | n-Butane | 15.0036 ppb v/v |
| | | | | | | | n-Butanol | 15.0036 ppb v/v |
| | | | | | | | n-Butylbenzene | 15.0036 ppb v/v |
| | | | | | | | n-Decane | 15.0036 ppb v/v |
| | | | | | | | n-Heptane | 15.0036 ppb v/v |
| | | | | | | | n-Hexane | 15.0036 ppb v/v |
| | | | | | | | n-Nonane | 15.0036 ppb v/v |
| | | | | | | | n-Octane | 15.0036 ppb v/v |
| | | | | | | | n-Propylbenzene | 15.0036 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene | 15.0036 ppb v/v |
| | | | | | | | o-Xylene | 15.0036 ppb v/v |
| | | | | | | | Pentane | 15.0036 ppb v/v |
| | | | | | | | Propene | 15.0036 ppb v/v |
| | | | | | | | sec-Butylbenzene | 15.0036 ppb v/v |
| | | | | | | | Styrene | 15.0036 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 15.0036 ppb v/v |
| | | | | | | | tert-Butylbenzene | 15.0036 ppb v/v |
| | | | | | | | Tetrachloroethene | 15.0036 ppb v/v |
| | | | | | | | Tetrahydrofuran | 15.0036 ppb v/v |
| | | | | | | | Toluene | 15.0036 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 15.0036 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 15.0036 ppb v/v |
| | | | | | | | Trichloroethene | 15.0036 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 15.0036 ppb v/v |
| | | | | | | | Undecane | 15.0036 ppb v/v |
| | | | | | | | Vinyl acetate | 15.0036 ppb v/v |
| | | | | | | | Vinyl chloride | 15.0036 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 620 mL | Ethanol | 20.0479 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL6w_00158** | 12/07/18 | 09/11/18 | Nitrogen, Lot 1 | 15.463 L | ATTO15CALSTKi_00103 | 1546 mL | 1,1,1-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,3-Trichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Butadiene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dioxane | 19.9961 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 19.9961 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 19.9961 ppb v/v |
| | | | | | | | 2-Methylbutane | 19.9961 ppb v/v |
| | | | | | | | 3-Chloropropene | 19.9961 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
| | | | | | | | Acetone | 19.9961 ppb v/v |
| | | | | | | | Acetonitrile | 19.9961 ppb v/v |
| | | | | | | | Acrolein | 19.9961 ppb v/v |
| | | | | | | | Acrylonitrile | 19.9961 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzene | 19.9961 ppb v/v |
| | | | | | | | Benzyl chloride | 19.9961 ppb v/v |
| | | | | | | | Bromodichloromethane | 19.9961 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 19.9961 ppb v/v |
| | | | | | | | Bromoform | 19.9961 ppb v/v |
| | | | | | | | Bromomethane | 19.9961 ppb v/v |
| | | | | | | | Carbon disulfide | 19.9961 ppb v/v |
| | | | | | | | Carbon tetrachloride | 19.9961 ppb v/v |
| | | | | | | | Chlorobenzene | 19.9961 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Chloroethane | 19.9961 ppb v/v |
| | | | | | | | Chloroform | 19.9961 ppb v/v |
| | | | | | | | Chloromethane | 19.9961 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Cumene | 19.9961 ppb v/v |
| | | | | | | | Cyclohexane | 19.9961 ppb v/v |
| | | | | | | | Dibromochloromethane | 19.9961 ppb v/v |
| | | | | | | | Dibromomethane | 19.9961 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Dodecane | 19.9961 ppb v/v |
| | | | | | | | Ethyl acetate | 19.9961 ppb v/v |
| | | | | | | | Ethyl ether | 19.9961 ppb v/v |
| | | | | | | | Ethylbenzene | 19.9961 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Isopropyl alcohol | 19.9961 ppb v/v |
| | | | | | | | m,p-Xylene | 39.9922 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl methacrylate | 19.9961 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 19.9961 ppb v/v |
| | | | | | | | Methylene Chloride | 19.9961 ppb v/v |
| | | | | | | | n-Butane | 19.9961 ppb v/v |
| | | | | | | | n-Butanol | 19.9961 ppb v/v |
| | | | | | | | n-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | n-Decane | 19.9961 ppb v/v |
| | | | | | | | n-Heptane | 19.9961 ppb v/v |
| | | | | | | | n-Hexane | 19.9961 ppb v/v |
| | | | | | | | n-Nonane | 19.9961 ppb v/v |
| | | | | | | | n-Octane | 19.9961 ppb v/v |
| | | | | | | | n-Propylbenzene | 19.9961 ppb v/v |
| | | | | | | | Naphthalene | 19.9961 ppb v/v |
| | | | | | | | o-Xylene | 19.9961 ppb v/v |
| | | | | | | | Pentane | 19.9961 ppb v/v |
| | | | | | | | Propene | 19.9961 ppb v/v |
| | | | | | | | sec-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Styrene | 19.9961 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 19.9961 ppb v/v |
| | | | | | | | tert-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Tetrachloroethene | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Tetrahydrofuran | 19.9961 ppb v/v |
| | | | | | | | Toluene | 19.9961 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Trichloroethene | 19.9961 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 19.9961 ppb v/v |
| | | | | | | | Undecane | 19.9961 ppb v/v |
| | | | | | | | Vinyl acetate | 19.9961 ppb v/v |
| | | | | | | | Vinyl chloride | 19.9961 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 1237 mL | Ethanol | 39.9987 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | | Chem Service, Lot 5301900 | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL6w_00161** | 12/23/18 | 11/23/18 | Nitrogen, Lot 1 | 15.463 L | ATTO15CALSTKi_00106 | 1546 mL | 1,1,1-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 19.9961 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 19.9961 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Butadiene | 19.9961 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 19.9961 ppb v/v |
| | | | | | | | 1,4-Dioxane | 19.9961 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 19.9961 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 19.9961 ppb v/v |
| | | | | | | | 2-Methylbutane | 19.9961 ppb v/v |
| | | | | | | | 3-Chloropropene | 19.9961 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 19.9961 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
| | | | | | | | Acetone | 19.9961 ppb v/v |
| | | | | | | | Acetonitrile | 19.9961 ppb v/v |
| | | | | | | | Acrolein | 19.9961 ppb v/v |
| | | | | | | | Acrylonitrile | 19.9961 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 19.9961 ppb v/v |
| | | | | | | | Benzene | 19.9961 ppb v/v |
| | | | | | | | Benzyl chloride | 19.9961 ppb v/v |
| | | | | | | | Bromodichloromethane | 19.9961 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 19.9961 ppb v/v |
| | | | | | | | Bromoform | 19.9961 ppb v/v |
| | | | | | | | Bromomethane | 19.9961 ppb v/v |
| | | | | | | | Carbon disulfide | 19.9961 ppb v/v |
| | | | | | | | Carbon tetrachloride | 19.9961 ppb v/v |
| | | | | | | | Chlorobenzene | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Chloroethane | 19.9961 ppb v/v |
| | | | | | | | Chloroform | 19.9961 ppb v/v |
| | | | | | | | Chloromethane | 19.9961 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Cumene | 19.9961 ppb v/v |
| | | | | | | | Cyclohexane | 19.9961 ppb v/v |
| | | | | | | | Dibromochloromethane | 19.9961 ppb v/v |
| | | | | | | | Dibromomethane | 19.9961 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 19.9961 ppb v/v |
| | | | | | | | Dodecane | 19.9961 ppb v/v |
| | | | | | | | Ethyl acetate | 19.9961 ppb v/v |
| | | | | | | | Ethyl ether | 19.9961 ppb v/v |
| | | | | | | | Ethylbenzene | 19.9961 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 19.9961 ppb v/v |
| | | | | | | | Isopropyl alcohol | 19.9961 ppb v/v |
| | | | | | | | m,p-Xylene | 39.9922 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
| | | | | | | | Methyl methacrylate | 19.9961 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 19.9961 ppb v/v |
| | | | | | | | Methylene Chloride | 19.9961 ppb v/v |
| | | | | | | | n-Butane | 19.9961 ppb v/v |
| | | | | | | | n-Butanol | 19.9961 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | n-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | n-Decane | 19.9961 ppb v/v |
| | | | | | | | n-Heptane | 19.9961 ppb v/v |
| | | | | | | | n-Hexane | 19.9961 ppb v/v |
| | | | | | | | n-Nonane | 19.9961 ppb v/v |
| | | | | | | | n-Octane | 19.9961 ppb v/v |
| | | | | | | | n-Propylbenzene | 19.9961 ppb v/v |
| | | | | | | | Naphthalene | 19.9961 ppb v/v |
| | | | | | | | o-Xylene | 19.9961 ppb v/v |
| | | | | | | | Pentane | 19.9961 ppb v/v |
| | | | | | | | Propene | 19.9961 ppb v/v |
| | | | | | | | sec-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Styrene | 19.9961 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 19.9961 ppb v/v |
| | | | | | | | tert-Butylbenzene | 19.9961 ppb v/v |
| | | | | | | | Tetrachloroethene | 19.9961 ppb v/v |
| | | | | | | | Tetrahydrofuran | 19.9961 ppb v/v |
| | | | | | | | Toluene | 19.9961 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 19.9961 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 19.9961 ppb v/v |
| | | | | | | | Trichloroethene | 19.9961 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 19.9961 ppb v/v |
| | | | | | | | Undecane | 19.9961 ppb v/v |
| | | | | | | | Vinyl acetate | 19.9961 ppb v/v |
| | | | | | | | Vinyl chloride | 19.9961 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | ATTO15EthCALw_00101 | 1237 mL | Ethanol | 39.9987 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| **ATTO15CAL7w_00079** | 12/07/18 | 09/10/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00103 | 3092 mL | 1,1,1-Trichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 39.9922 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 39.9922 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 39.9922 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 39.9922 ppb v/v |
| | | | | | | | 1,3-Butadiene | 39.9922 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,4-Dioxane | 39.9922 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 39.9922 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 39.9922 ppb v/v |
| | | | | | | | 2-Methylbutane | 39.9922 ppb v/v |
| | | | | | | | 3-Chloropropene | 39.9922 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 39.9922 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Isopropyltoluene | 39.9922 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 39.9922 ppb v/v |
| | | | | | | | Acetone | 39.9922 ppb v/v |
| | | | | | | | Acetonitrile | 39.9922 ppb v/v |
| | | | | | | | Acrolein | 39.9922 ppb v/v |
| | | | | | | | Acrylonitrile | 39.9922 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 39.9922 ppb v/v |
| | | | | | | | Benzene | 39.9922 ppb v/v |
| | | | | | | | Benzyl chloride | 39.9922 ppb v/v |
| | | | | | | | Bromodichloromethane | 39.9922 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 39.9922 ppb v/v |
| | | | | | | | Bromoform | 39.9922 ppb v/v |
| | | | | | | | Bromomethane | 39.9922 ppb v/v |
| | | | | | | | Carbon disulfide | 39.9922 ppb v/v |
| | | | | | | | Carbon tetrachloride | 39.9922 ppb v/v |
| | | | | | | | Chlorobenzene | 39.9922 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 39.9922 ppb v/v |
| | | | | | | | Chloroethane | 39.9922 ppb v/v |
| | | | | | | | Chloroform | 39.9922 ppb v/v |
| | | | | | | | Chloromethane | 39.9922 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 39.9922 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 39.9922 ppb v/v |
| | | | | | | | Cumene | 39.9922 ppb v/v |
| | | | | | | | Cyclohexane | 39.9922 ppb v/v |
| | | | | | | | Dibromochloromethane | 39.9922 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Dibromomethane | 39.9922 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 39.9922 ppb v/v |
| | | | | | | | Dodecane | 39.9922 ppb v/v |
| | | | | | | | Ethyl acetate | 39.9922 ppb v/v |
| | | | | | | | Ethyl ether | 39.9922 ppb v/v |
| | | | | | | | Ethylbenzene | 39.9922 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 39.9922 ppb v/v |
| | | | | | | | Isopropyl alcohol | 39.9922 ppb v/v |
| | | | | | | | m,p-Xylene | 79.9845 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 39.9922 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 39.9922 ppb v/v |
| | | | | | | | Methyl methacrylate | 39.9922 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 39.9922 ppb v/v |
| | | | | | | | Methylene Chloride | 39.9922 ppb v/v |
| | | | | | | | n-Butane | 39.9922 ppb v/v |
| | | | | | | | n-Butanol | 39.9922 ppb v/v |
| | | | | | | | n-Butylbenzene | 39.9922 ppb v/v |
| | | | | | | | n-Decane | 39.9922 ppb v/v |
| | | | | | | | n-Heptane | 39.9922 ppb v/v |
| | | | | | | | n-Hexane | 39.9922 ppb v/v |
| | | | | | | | n-Nonane | 39.9922 ppb v/v |
| | | | | | | | n-Octane | 39.9922 ppb v/v |
| | | | | | | | n-Propylbenzene | 39.9922 ppb v/v |
| | | | | | | | Naphthalene | 39.9922 ppb v/v |
| | | | | | | | o-Xylene | 39.9922 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Pentane | 39.9922 ppb v/v |
| | | | | | | | Propene | 39.9922 ppb v/v |
| | | | | | | | sec-Butylbenzene | 39.9922 ppb v/v |
| | | | | | | | Styrene | 39.9922 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 39.9922 ppb v/v |
| | | | | | | | tert-Butylbenzene | 39.9922 ppb v/v |
| | | | | | | | Tetrachloroethene | 39.9922 ppb v/v |
| | | | | | | | Tetrahydrofuran | 39.9922 ppb v/v |
| | | | | | | | Toluene | 39.9922 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 39.9922 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 39.9922 ppb v/v |
| | | | | | | | Trichloroethene | 39.9922 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 39.9922 ppb v/v |
| | | | | | | | Undecane | 39.9922 ppb v/v |
| | | | | | | | Vinyl acetate | 39.9922 ppb v/v |
| | | | | | | | Vinyl chloride | 39.9922 ppb v/v |
| | | | | | ATTO15EthCALw_00098 | 3092 mL | Ethanol | 99.9806 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00098 | 12/10/18 | 09/10/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | Chem Service, Lot 5301900 | | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CAL7w_00080** | 12/23/18 | 11/23/18 | Nitrogen, Lot 12 | 15.463 L | ATTO15CALSTKi_00106 | 3092 mL | 1,1,1-Trichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 39.9922 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 39.9922 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 39.9922 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2,4-Trimethylbenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 39.9922 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 39.9922 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 39.9922 ppb v/v |
| | | | | | | | 1,3-Butadiene | 39.9922 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 39.9922 ppb v/v |
| | | | | | | | 1,4-Dioxane | 39.9922 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 39.9922 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 39.9922 ppb v/v |
| | | | | | | | 2-Methylbutane | 39.9922 ppb v/v |
| | | | | | | | 3-Chloropropene | 39.9922 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 39.9922 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 39.9922 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 39.9922 ppb v/v |
| | | | | | | | Acetone | 39.9922 ppb v/v |
| | | | | | | | Acetonitrile | 39.9922 ppb v/v |
| | | | | | | | Acrolein | 39.9922 ppb v/v |
| | | | | | | | Acrylonitrile | 39.9922 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 39.9922 ppb v/v |
| | | | | | | | Benzene | 39.9922 ppb v/v |
| | | | | | | | Benzyl chloride | 39.9922 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Bromodichloromethane | 39.9922 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 39.9922 ppb v/v |
| | | | | | | | Bromoform | 39.9922 ppb v/v |
| | | | | | | | Bromomethane | 39.9922 ppb v/v |
| | | | | | | | Carbon disulfide | 39.9922 ppb v/v |
| | | | | | | | Carbon tetrachloride | 39.9922 ppb v/v |
| | | | | | | | Chlorobenzene | 39.9922 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 39.9922 ppb v/v |
| | | | | | | | Chloroethane | 39.9922 ppb v/v |
| | | | | | | | Chloroform | 39.9922 ppb v/v |
| | | | | | | | Chloromethane | 39.9922 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 39.9922 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 39.9922 ppb v/v |
| | | | | | | | Cumene | 39.9922 ppb v/v |
| | | | | | | | Cyclohexane | 39.9922 ppb v/v |
| | | | | | | | Dibromochloromethane | 39.9922 ppb v/v |
| | | | | | | | Dibromomethane | 39.9922 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 39.9922 ppb v/v |
| | | | | | | | Dodecane | 39.9922 ppb v/v |
| | | | | | | | Ethyl acetate | 39.9922 ppb v/v |
| | | | | | | | Ethyl ether | 39.9922 ppb v/v |
| | | | | | | | Ethylbenzene | 39.9922 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 39.9922 ppb v/v |
| | | | | | | | Isopropyl alcohol | 39.9922 ppb v/v |
| | | | | | | | m,p-Xylene | 79.9845 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 39.9922 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 39.9922 ppb v/v |
| | | | | | | | Methyl methacrylate | 39.9922 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 39.9922 ppb v/v |
| | | | | | | | Methylene Chloride | 39.9922 ppb v/v |
| | | | | | | | n-Butane | 39.9922 ppb v/v |
| | | | | | | | n-Butanol | 39.9922 ppb v/v |
| | | | | | | | n-Butylbenzene | 39.9922 ppb v/v |
| | | | | | | | n-Decane | 39.9922 ppb v/v |
| | | | | | | | n-Heptane | 39.9922 ppb v/v |
| | | | | | | | n-Hexane | 39.9922 ppb v/v |
| | | | | | | | n-Nonane | 39.9922 ppb v/v |
| | | | | | | | n-Octane | 39.9922 ppb v/v |
| | | | | | | | n-Propylbenzene | 39.9922 ppb v/v |
| | | | | | | | Naphthalene | 39.9922 ppb v/v |
| | | | | | | | o-Xylene | 39.9922 ppb v/v |
| | | | | | | | Pentane | 39.9922 ppb v/v |
| | | | | | | | Propene | 39.9922 ppb v/v |
| | | | | | | | sec-Butylbenzene | 39.9922 ppb v/v |
| | | | | | | | Styrene | 39.9922 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 39.9922 ppb v/v |
| | | | | | | | tert-Butylbenzene | 39.9922 ppb v/v |
| | | | | | | | Tetrachloroethene | 39.9922 ppb v/v |
| | | | | | | | Tetrahydrofuran | 39.9922 ppb v/v |
| | | | | | | | Toluene | 39.9922 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | trans-1,2-Dichloroethene | 39.9922 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 39.9922 ppb v/v |
| | | | | | | | Trichloroethene | 39.9922 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 39.9922 ppb v/v |
| | | | | | | | Undecane | 39.9922 ppb v/v |
| | | | | | | | Vinyl acetate | 39.9922 ppb v/v |
| | | | | | | | Vinyl chloride | 39.9922 ppb v/v |
| | | | | | ATTO15EthCALw_00101 | 3092 mL | Ethanol | 99.9806 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18 | Nitrogen, Lot 13 | 37.5 L | ATTO15CALs_00031 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,3-Trichloropropane | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 2-Methylbutane | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Acetonitrile | 200 ppb v/v |
| | | | | | | | Acrolein | 200 ppb v/v |
| | | | | | | | Acrylonitrile | 200 ppb v/v |
| | | | | | | | Alpha Methyl Styrene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dibromomethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Dodecane | 200 ppb v/v |
| | | | | | | | Ethyl acetate | 200 ppb v/v |
| | | | | | | | Ethyl ether | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butanol | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Decane | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Nonane | 200 ppb v/v |
| | | | | | | | n-Octane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | Pentane | 200 ppb v/v |
| | | | | | | | Propene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Undecane | 200 ppb v/v |
| | | | | | | | Vinyl acetate | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15CALs_00031 | 02/01/19 | | Linde, Lot CC-133603 | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,3-Trichloropropane | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 2-Methylbutane | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Acetonitrile | 1 ppm v/v |
| | | | | | | | Acrolein | 1 ppm v/v |
| | | | | | | | Acrylonitrile | 1 ppm v/v |
| | | | | | | | Alpha Methyl Styrene | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dibromomethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Dodecane | 1 ppm v/v |
| | | | | | | | Ethyl acetate | 1 ppm v/v |
| | | | | | | | Ethyl ether | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butanol | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Decane | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Nonane | 1 ppm v/v |
| | | | | | | | n-Octane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | Pentane | 1 ppm v/v |
| | | | | | | | Propene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Undecane | 1 ppm v/v |
| | | | | | | | Vinyl acetate | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| .ATTO15EthCALw_00101 | 02/23/19 | 11/21/18 | Nitrogen, Lot 12 | 37.5 ppb | ATTO15EthCALs_00009 | 18.75 uL | Ethanol | 500 ppb v/v |
| ..ATTO15EthCALs_00009 | 09/05/21 | | Chem Service, Lot 5301900 | | (Purchased Reagent) | | Ethanol | 1 mL/mL |
| **ATTO15CISs_00010** | | | | | | | 1,2-Dichloroethene, Total | |
| | | | | | | | 1,4-Difluorobenzene | 100 ppb v/v |
| | | | | | | | BFB | 100 ppb v/v |
| | | | | | | | Chlorobenzene-d5 | 100 ppb v/v |
| | | | | | | | Chlorobromomethane | 100 ppb v/v |
| | | | | | | | Tentatively Identified Compound | |
| | | | | | | | Total Alkanes | |
| | | | | | | | Xylenes, Total | |
| **ATTO15GIS_00015** | | | | | | | 1,2-Dichloroethene, Total | |
| | | | | | | | 1,4-Difluorobenzene | 100 ppb v/v |
| | | | | | | | BFB | 100 ppb v/v |
| | | | | | | | Chlorobenzene-d5 | 100 ppb v/v |
| | | | | | | | Chlorobromomethane | 100 ppb v/v |
| | | | | | | | Tentatively Identified Compound | |
| | | | | | | | Total Alkanes | |
| | | | | | | | Xylenes, Total | |
| **ATTO15LCSW_00787** | 12/04/18 | 09/21/18 | Nitrogen, Lot 13 | 15.463 L | ATTO15LCSSTKi_00096 | 773 mL | 1,1,1-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dibromoethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Butadiene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dioxane | 9.99806 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 9.99806 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 9.99806 ppb v/v |
| | | | | | | | 3-Chloropropene | 9.99806 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
| | | | | | | | Acetone | 9.99806 ppb v/v |
| | | | | | | | Benzene | 9.99806 ppb v/v |
| | | | | | | | Benzyl chloride | 9.99806 ppb v/v |
| | | | | | | | Bromodichloromethane | 9.99806 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 9.99806 ppb v/v |
| | | | | | | | Bromoform | 9.99806 ppb v/v |
| | | | | | | | Bromomethane | 9.99806 ppb v/v |
| | | | | | | | Carbon disulfide | 9.99806 ppb v/v |
| | | | | | | | Carbon tetrachloride | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorobenzene | 9.99806 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Chloroethane | 9.99806 ppb v/v |
| | | | | | | | Chloroform | 9.99806 ppb v/v |
| | | | | | | | Chloromethane | 9.99806 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Cumene | 9.99806 ppb v/v |
| | | | | | | | Cyclohexane | 9.99806 ppb v/v |
| | | | | | | | Dibromochloromethane | 9.99806 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Ethylbenzene | 9.99806 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 9.99806 ppb v/v |
| | | | | | | | Isopropyl alcohol | 9.99806 ppb v/v |
| | | | | | | | m,p-Xylene | 19.9961 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl methacrylate | 9.99806 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 9.99806 ppb v/v |
| | | | | | | | Methylene Chloride | 9.99806 ppb v/v |
| | | | | | | | n-Butane | 9.99806 ppb v/v |
| | | | | | | | n-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | n-Heptane | 9.99806 ppb v/v |
| | | | | | | | n-Hexane | 9.99806 ppb v/v |
| | | | | | | | n-Propylbenzene | 9.99806 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene | 9.99806 ppb v/v |
| | | | | | | | o-Xylene | 9.99806 ppb v/v |
| | | | | | | | sec-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Styrene | 9.99806 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 9.99806 ppb v/v |
| | | | | | | | tert-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Tetrachloroethene | 9.99806 ppb v/v |
| | | | | | | | Tetrahydrofuran | 9.99806 ppb v/v |
| | | | | | | | Toluene | 9.99806 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Trichloroethene | 9.99806 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 9.99806 ppb v/v |
| | | | | | | | Vinyl chloride | 9.99806 ppb v/v |
| .ATTO15LCSSTKi_00096 | 12/04/18 | 09/04/18 | Nitrogen, Lot 12 | 37.5 L | ATTO15LCSs_00024 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15LCSs_00024 | 02/01/19 | Spectra Gases, Lot CC-250179 | | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| **ATTO15LCSW_00790** | 12/27/18 | 11/28/18 | Nitrogen, Lot 13 | 15.463 L | ATTO15LCSSTKi_00097 | 773 mL | 1,1,1-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dibromoethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Butadiene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dioxane | 9.99806 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 9.99806 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 9.99806 ppb v/v |
| | | | | | | | 3-Chloropropene | 9.99806 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
| | | | | | | | Acetone | 9.99806 ppb v/v |
| | | | | | | | Benzene | 9.99806 ppb v/v |
| | | | | | | | Benzyl chloride | 9.99806 ppb v/v |
| | | | | | | | Bromodichloromethane | 9.99806 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 9.99806 ppb v/v |
| | | | | | | | Bromoform | 9.99806 ppb v/v |
| | | | | | | | Bromomethane | 9.99806 ppb v/v |
| | | | | | | | Carbon disulfide | 9.99806 ppb v/v |
| | | | | | | | Carbon tetrachloride | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorobenzene | 9.99806 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Chloroethane | 9.99806 ppb v/v |
| | | | | | | | Chloroform | 9.99806 ppb v/v |
| | | | | | | | Chloromethane | 9.99806 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Cumene | 9.99806 ppb v/v |
| | | | | | | | Cyclohexane | 9.99806 ppb v/v |
| | | | | | | | Dibromochloromethane | 9.99806 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Ethylbenzene | 9.99806 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 9.99806 ppb v/v |
| | | | | | | | Isopropyl alcohol | 9.99806 ppb v/v |
| | | | | | | | m,p-Xylene | 19.9961 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl methacrylate | 9.99806 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 9.99806 ppb v/v |
| | | | | | | | Methylene Chloride | 9.99806 ppb v/v |
| | | | | | | | n-Butane | 9.99806 ppb v/v |
| | | | | | | | n-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | n-Heptane | 9.99806 ppb v/v |
| | | | | | | | n-Hexane | 9.99806 ppb v/v |
| | | | | | | | n-Propylbenzene | 9.99806 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene | 9.99806 ppb v/v |
| | | | | | | | o-Xylene | 9.99806 ppb v/v |
| | | | | | | | sec-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Styrene | 9.99806 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 9.99806 ppb v/v |
| | | | | | | | tert-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Tetrachloroethene | 9.99806 ppb v/v |
| | | | | | | | Tetrahydrofuran | 9.99806 ppb v/v |
| | | | | | | | Toluene | 9.99806 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Trichloroethene | 9.99806 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 9.99806 ppb v/v |
| | | | | | | | Vinyl chloride | 9.99806 ppb v/v |
| .ATTO15LCSSTKi_00097 | 12/27/18 | 11/27/18 | Nitrogen, Lot 12 | 37.5 L | ATTO15LCSs_00024 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15LCSs_00024 | 02/01/19 | Spectra Gases, Lot CC-250179 | | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |
| **ATTO15LCSW_00791** | 12/27/18 | 12/05/18 | Nitrogen, Lot 13 | 15.463 L | ATTO15LCSSTKi_00097 | 773 mL | 1,1,1-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,2-Dibromoethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 9.99806 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 9.99806 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Butadiene | 9.99806 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 9.99806 ppb v/v |
| | | | | | | | 1,4-Dioxane | 9.99806 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 9.99806 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 9.99806 ppb v/v |
| | | | | | | | 3-Chloropropene | 9.99806 ppb v/v |
| | | | | | | | 4-Ethyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 9.99806 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
| | | | | | | | Acetone | 9.99806 ppb v/v |
| | | | | | | | Benzene | 9.99806 ppb v/v |
| | | | | | | | Benzyl chloride | 9.99806 ppb v/v |
| | | | | | | | Bromodichloromethane | 9.99806 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 9.99806 ppb v/v |
| | | | | | | | Bromoform | 9.99806 ppb v/v |
| | | | | | | | Bromomethane | 9.99806 ppb v/v |
| | | | | | | | Carbon disulfide | 9.99806 ppb v/v |
| | | | | | | | Carbon tetrachloride | 9.99806 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Chlorobenzene | 9.99806 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Chloroethane | 9.99806 ppb v/v |
| | | | | | | | Chloroform | 9.99806 ppb v/v |
| | | | | | | | Chloromethane | 9.99806 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Cumene | 9.99806 ppb v/v |
| | | | | | | | Cyclohexane | 9.99806 ppb v/v |
| | | | | | | | Dibromochloromethane | 9.99806 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 9.99806 ppb v/v |
| | | | | | | | Ethylbenzene | 9.99806 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 9.99806 ppb v/v |
| | | | | | | | Isopropyl alcohol | 9.99806 ppb v/v |
| | | | | | | | m,p-Xylene | 19.9961 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
| | | | | | | | Methyl methacrylate | 9.99806 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 9.99806 ppb v/v |
| | | | | | | | Methylene Chloride | 9.99806 ppb v/v |
| | | | | | | | n-Butane | 9.99806 ppb v/v |
| | | | | | | | n-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | n-Heptane | 9.99806 ppb v/v |
| | | | | | | | n-Hexane | 9.99806 ppb v/v |
| | | | | | | | n-Propylbenzene | 9.99806 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Naphthalene | 9.99806 ppb v/v |
| | | | | | | | o-Xylene | 9.99806 ppb v/v |
| | | | | | | | sec-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Styrene | 9.99806 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 9.99806 ppb v/v |
| | | | | | | | tert-Butylbenzene | 9.99806 ppb v/v |
| | | | | | | | Tetrachloroethene | 9.99806 ppb v/v |
| | | | | | | | Tetrahydrofuran | 9.99806 ppb v/v |
| | | | | | | | Toluene | 9.99806 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 9.99806 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 9.99806 ppb v/v |
| | | | | | | | Trichloroethene | 9.99806 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 9.99806 ppb v/v |
| | | | | | | | Vinyl chloride | 9.99806 ppb v/v |
| .ATTO15LCSSTKi_00097 | 12/27/18 | 11/27/18 | Nitrogen, Lot 12 | 37.5 L | ATTO15LCSs_00024 | 7500 mL | 1,1,1-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichloroethane | 200 ppb v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,1-Dichloroethene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dibromoethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,2-Dichloroethane | 200 ppb v/v |
| | | | | | | | 1,2-Dichloropropane | 200 ppb v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 200 ppb v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 200 ppb v/v |
| | | | | | | | 1,3-Butadiene | 200 ppb v/v |
| | | | | | | | 1,3-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dichlorobenzene | 200 ppb v/v |
| | | | | | | | 1,4-Dioxane | 200 ppb v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 200 ppb v/v |
| | | | | | | | 2-Chlorotoluene | 200 ppb v/v |
| | | | | | | | 3-Chloropropene | 200 ppb v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Ethyltoluene | 200 ppb v/v |
| | | | | | | | 4-Isopropyltoluene | 200 ppb v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v |
| | | | | | | | Acetone | 200 ppb v/v |
| | | | | | | | Benzene | 200 ppb v/v |
| | | | | | | | Benzyl chloride | 200 ppb v/v |
| | | | | | | | Bromodichloromethane | 200 ppb v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 200 ppb v/v |
| | | | | | | | Bromoform | 200 ppb v/v |
| | | | | | | | Bromomethane | 200 ppb v/v |
| | | | | | | | Carbon disulfide | 200 ppb v/v |
| | | | | | | | Carbon tetrachloride | 200 ppb v/v |
| | | | | | | | Chlorobenzene | 200 ppb v/v |
| | | | | | | | Chlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Chloroethane | 200 ppb v/v |
| | | | | | | | Chloroform | 200 ppb v/v |
| | | | | | | | Chloromethane | 200 ppb v/v |
| | | | | | | | cis-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | cis-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Cumene | 200 ppb v/v |
| | | | | | | | Cyclohexane | 200 ppb v/v |
| | | | | | | | Dibromochloromethane | 200 ppb v/v |
| | | | | | | | Dichlorodifluoromethane | 200 ppb v/v |
| | | | | | | | Ethylbenzene | 200 ppb v/v |
| | | | | | | | Hexachlorobutadiene | 200 ppb v/v |
| | | | | | | | Isopropyl alcohol | 200 ppb v/v |
| | | | | | | | m,p-Xylene | 400 ppb v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v |
| | | | | | | | Methyl methacrylate | 200 ppb v/v |
| | | | | | | | Methyl tert-butyl ether | 200 ppb v/v |
| | | | | | | | Methylene Chloride | 200 ppb v/v |
| | | | | | | | n-Butane | 200 ppb v/v |
| | | | | | | | n-Butylbenzene | 200 ppb v/v |
| | | | | | | | n-Heptane | 200 ppb v/v |
| | | | | | | | n-Hexane | 200 ppb v/v |
| | | | | | | | n-Propylbenzene | 200 ppb v/v |
| | | | | | | | Naphthalene | 200 ppb v/v |
| | | | | | | | o-Xylene | 200 ppb v/v |
| | | | | | | | sec-Butylbenzene | 200 ppb v/v |
| | | | | | | | Styrene | 200 ppb v/v |
| | | | | | | | tert-Butyl alcohol | 200 ppb v/v |
| | | | | | | | tert-Butylbenzene | 200 ppb v/v |
| | | | | | | | Tetrachloroethene | 200 ppb v/v |
| | | | | | | | Tetrahydrofuran | 200 ppb v/v |

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Toluene | 200 ppb v/v |
| | | | | | | | trans-1,2-Dichloroethene | 200 ppb v/v |
| | | | | | | | trans-1,3-Dichloropropene | 200 ppb v/v |
| | | | | | | | Trichloroethene | 200 ppb v/v |
| | | | | | | | Trichlorofluoromethane | 200 ppb v/v |
| | | | | | | | Vinyl chloride | 200 ppb v/v |
| ..ATTO15LCSs_00024 | 02/01/19 | Spectra Gases, Lot CC-250179 | | | (Purchased Reagent) | | 1,1,1-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2,2-Tetrachloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichloroethane | 1 ppm v/v |
| | | | | | | | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,1-Dichloroethene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2,4-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dibromoethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,2-Dichloroethane | 1 ppm v/v |
| | | | | | | | 1,2-Dichloropropane | 1 ppm v/v |
| | | | | | | | 1,2-Dichlorotetrafluoroethane | 1 ppm v/v |
| | | | | | | | 1,3,5-Trimethylbenzene | 1 ppm v/v |
| | | | | | | | 1,3-Butadiene | 1 ppm v/v |
| | | | | | | | 1,3-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dichlorobenzene | 1 ppm v/v |
| | | | | | | | 1,4-Dioxane | 1 ppm v/v |
| | | | | | | | 2,2,4-Trimethylpentane | 1 ppm v/v |
| | | | | | | | 2-Chlorotoluene | 1 ppm v/v |
| | | | | | | | 3-Chloropropene | 1 ppm v/v |
| | | | | | | | 4-Ethyltoluene | 1 ppm v/v |
| | | | | | | | 4-Isopropyltoluene | 1 ppm v/v |
| | | | | | | | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v |
| | | | | | | | Acetone | 1 ppm v/v |
| | | | | | | | Benzene | 1 ppm v/v |
| | | | | | | | Benzyl chloride | 1 ppm v/v |
| | | | | | | | Bromodichloromethane | 1 ppm v/v |
| | | | | | | | Bromoethene(Vinyl Bromide) | 1 ppm v/v |
| | | | | | | | Bromoform | 1 ppm v/v |
| | | | | | | | Bromomethane | 1 ppm v/v |
| | | | | | | | Carbon disulfide | 1 ppm v/v |
| | | | | | | | Carbon tetrachloride | 1 ppm v/v |
| | | | | | | | Chlorobenzene | 1 ppm v/v |
| | | | | | | | Chlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Chloroethane | 1 ppm v/v |
| | | | | | | | Chloroform | 1 ppm v/v |
| | | | | | | | Chloromethane | 1 ppm v/v |
| | | | | | | | cis-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | cis-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Cumene | 1 ppm v/v |

# REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|---|---|---|---|---|---|---|---|---|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | Cyclohexane | 1 ppm v/v |
| | | | | | | | Dibromochloromethane | 1 ppm v/v |
| | | | | | | | Dichlorodifluoromethane | 1 ppm v/v |
| | | | | | | | Ethylbenzene | 1 ppm v/v |
| | | | | | | | Hexachlorobutadiene | 1 ppm v/v |
| | | | | | | | Isopropyl alcohol | 1 ppm v/v |
| | | | | | | | m,p-Xylene | 2 ppm v/v |
| | | | | | | | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v |
| | | | | | | | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v |
| | | | | | | | Methyl methacrylate | 1 ppm v/v |
| | | | | | | | Methyl tert-butyl ether | 1 ppm v/v |
| | | | | | | | Methylene Chloride | 1 ppm v/v |
| | | | | | | | n-Butane | 1 ppm v/v |
| | | | | | | | n-Butylbenzene | 1 ppm v/v |
| | | | | | | | n-Heptane | 1 ppm v/v |
| | | | | | | | n-Hexane | 1 ppm v/v |
| | | | | | | | n-Propylbenzene | 1 ppm v/v |
| | | | | | | | Naphthalene | 1 ppm v/v |
| | | | | | | | o-Xylene | 1 ppm v/v |
| | | | | | | | sec-Butylbenzene | 1 ppm v/v |
| | | | | | | | Styrene | 1 ppm v/v |
| | | | | | | | tert-Butyl alcohol | 1 ppm v/v |
| | | | | | | | tert-Butylbenzene | 1 ppm v/v |
| | | | | | | | Tetrachloroethene | 1 ppm v/v |
| | | | | | | | Tetrahydrofuran | 1 ppm v/v |
| | | | | | | | Toluene | 1 ppm v/v |
| | | | | | | | trans-1,2-Dichloroethene | 1 ppm v/v |
| | | | | | | | trans-1,3-Dichloropropene | 1 ppm v/v |
| | | | | | | | Trichloroethene | 1 ppm v/v |
| | | | | | | | Trichlorofluoromethane | 1 ppm v/v |
| | | | | | | | Vinyl chloride | 1 ppm v/v |

# Reagent

# ATTO15CALs_00031

THE LINDE GROUP

# ISO 17025 Certificate

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

1140070
ID: ATTO15CAL-S_00031
Exp:02/01/19 Prpd:WR0 Opn:02/27/18
TO15 Calibration Source T

# Certificate of Analysis

**SHIPPED TO:**
Test America Inc
30 Community Drive Suite 11
South Burlington, VT 05403

**PAGE:** 1 of 6
Report ID: 23639
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 115931017 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1444262 | **Cylinder # :** | CC-133603 |
| **Certification Date:** | Feb-01-2018 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2705057 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO-17025 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24104980 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Feb-01-2019 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of 2 (K=2), providing a level of confidence of approximately 95% and has been carried out in accordance with ANAB (ANSI-ASQ National Accreditation Board) and ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

**Linde Spectra Environmental Gases**

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**Linde North America, Inc.**

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www.lideus.com

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Linde

# ISO 17025 Certificate

ANAB ACCREDITED TESTING LABORATORY

# Certificate of Analysis

**SHIPPED TO:**
Test America Inc
30 Community Drive Suite 11
South Burlington, VT 05403


Report ID: 23639
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 115931017 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1444262 | **Cylinder # :** | CC-133603 |
| **Certification Date:** | Feb-01-2018 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2705057 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO-17025 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24104980 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Feb-01-2019 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Reported Conc | Uncertainty (k=2 @ 95%) |
|---|---|---|---|---|
| Propylene | 115-07-1 | 1.000 ppm | 1.015 ppm | ± 0.040 ppm |
| Chlorodifluoromethane | 75-45-6 | 1.000 ppm | 1.061 ppm | ± 0.033 ppm |
| Freon-12 | 75-71-8 | 1.000 ppm | 1.057 ppm | ± 0.013 ppm |
| Chloromethane | 74-87-3 | 1.000 ppm | 0.986 ppm | ± 0.033 ppm |
| Freon-114 | 76-14-2 | 1.000 ppm | 1.059 ppm | ± 0.010 ppm |
| Vinyl Chloride | 75-01-4 | 1.000 ppm | 0.997 ppm | ± 0.014 ppm |
| 1,3-Butadiene | 106-99-0 | 1.000 ppm | 0.978 ppm | ± 0.010 ppm |
| Methanol (No Stability Guarante | 67-56-1 | 1.000 ppm | 0.962 ppm | ± 0.096 ppm |
| n-Butane | 106-97-8 | 1.000 ppm | 1.017 ppm | ± 0.005 ppm |
| Bromomethane | 74-83-9 | 1.000 ppm | 1.019 ppm | ± 0.040 ppm |
| Chloroethane | 75-00-3 | 1.000 ppm | 1.042 ppm | ± 0.012 ppm |
| Vinyl Bromide | 593-60-2 | 1.000 ppm | 0.993 ppm | ± 0.007 ppm |
| Acetonitrile | 75-05-8 | 1.000 ppm | 0.978 ppm | ± 0.004 ppm |
| Acrolein | 107-02-8 | 1.000 ppm | 0.961 ppm | ± 0.093 ppm |
| Isopentane | 78-78-4 | 1.000 ppm | 1.031 ppm | ± 0.004 ppm |
| Acetone | 67-64-1 | 1.000 ppm | 1.011 ppm | ± 0.004 ppm |
| Freon-11 | 75-69-4 | 1.000 ppm | 1.042 ppm | ± 0.011 ppm |
| Isopropyl Alcohol | 67-63-0 | 1.000 ppm | 1.025 ppm | ± 0.004 ppm |
| Acrylonitrile | 107-13-1 | 1.000 ppm | 1.014 ppm | ± 0.004 ppm |
| n-Pentane | 109-66-0 | 1.000 ppm | 1.016 ppm | ± 0.004 ppm |
| Ethyl Ether | 60-29-7 | 1.000 ppm | 1.011 ppm | ± 0.004 ppm |
| 1,1-Dichloroethene | 75-35-4 | 1.000 ppm | 1.031 ppm | ± 0.004 ppm |
| Carbon Disulfide | 75-15-0 | 1.000 ppm | 1.030 ppm | ± 0.004 ppm |
| Methylene Chloride | 75-09-2 | 1.000 ppm | 1.042 ppm | ± 0.004 ppm |
| Tert-Butanol | 75-65-0 | 1.000 ppm | 1.094 ppm | ± 0.004 ppm |
| 3-Chloropropene | 107-05-1 | 1.000 ppm | 1.069 ppm | ± 0.004 ppm |
| Freon-113 | 76-13-1 | 1.000 ppm | 1.068 ppm | ± 0.004 ppm |

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**Linde North America, Inc.**

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# ISO 17025 Certificate

ANAB ACCREDITED TESTING LABORATORY

# Certificate of Analysis

**SHIPPED TO:**
Test America Inc
30 Community Drive Suite 11
South Burlington, VT 05403

**PAGE:** **3 of 6**
Report ID: 23639
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 115931017 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1444262 | **Cylinder # :** | CC-133603 |
| **Certification Date:** | Feb-01-2018 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2705057 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO-17025 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24104980 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Feb-01-2019 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Reported Conc | Uncertainty (k=2 @ 95%) |
|---|---|---|---|---|
| Trans-1,2-Dichloroethene | 156-60-5 | 1.000 ppm | 1.028 ppm | ± 0.004 ppm |
| 1,1-Dichloroethane | 75-34-3 | 1.000 ppm | 1.029 ppm | ± 0.004 ppm |
| Methyl Tert Butyl Ether | 1634-04-4 | 1.000 ppm | 1.049 ppm | ± 0.004 ppm |
| Vinyl Acetate | 108-05-4 | 1.000 ppm | 1.082 ppm | ± 0.004 ppm |
| Methyl Ethyl Ketone | 78-93-3 | 1.000 ppm | 1.038 ppm | ± 0.004 ppm |
| Cis-1,2-Dichloroethene | 156-59-2 | 1.000 ppm | 1.017 ppm | ± 0.004 ppm |
| Hexane | 110-54-3 | 1.000 ppm | 1.038 ppm | ± 0.004 ppm |
| Chloroform | 67-66-3 | 1.000 ppm | 1.040 ppm | ± 0.004 ppm |
| Ethyl Acetate | 141-78-6 | 1.000 ppm | 1.038 ppm | ± 0.004 ppm |
| Tetrahydrofuran | 109-99-9 | 1.000 ppm | 0.973 ppm | ± 0.004 ppm |
| 1,2-Dichloroethane | 107-06-2 | 1.000 ppm | 1.041 ppm | ± 0.004 ppm |
| 1,1,1-Trichloroethane | 71-55-6 | 1.000 ppm | 1.033 ppm | ± 0.004 ppm |
| Benzene | 71-43-2 | 1.000 ppm | 1.046 ppm | ± 0.004 ppm |
| 1-Butanol | 71-36-3 | 1.000 ppm | 0.955 ppm | ± 0.029 ppm |
| Carbon Tetrachloride | 56-23-5 | 1.000 ppm | 1.007 ppm | ± 0.004 ppm |
| Cyclohexane | 110-82-7 | 1.000 ppm | 1.006 ppm | ± 0.004 ppm |
| Dibromomethane | 74-95-3 | 1.000 ppm | 1.037 ppm | ± 0.004 ppm |
| 1,2-Dichloropropane | 78-87-5 | 1.000 ppm | 1.038 ppm | ± 0.004 ppm |
| Trichloroethylene | 79-01-6 | 1.000 ppm | 1.029 ppm | ± 0.004 ppm |
| Bromodichloromethane | 75-27-4 | 1.000 ppm | 1.032 ppm | ± 0.004 ppm |
| 1,4-Dioxane | 123-91-1 | 1.000 ppm | 1.032 ppm | ± 0.004 ppm |
| 2,2,4-Trimethylpentane | 540-84-1 | 1.000 ppm | 1.012 ppm | ± 0.004 ppm |
| Methyl Methacrylate | 80-62-6 | 1.000 ppm | 1.014 ppm | ± 0.004 ppm |
| Heptane | 142-82-5 | 1.000 ppm | 1.039 ppm | ± 0.004 ppm |
| Methylcyclohexane | 108-87-2 | 1.000 ppm | 1.035 ppm | ± 0.004 ppm |
| Cis-1,3-Dichloropropene | 10061-01-5 | 1.000 ppm | 1.028 ppm | ± 0.028 ppm |
| Methyl Isobutyl Ketone | 108-10-1 | 1.000 ppm | 1.013 ppm | ± 0.004 ppm |

**Linde Spectra Environmental Gases**

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**Linde North America, Inc.**

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THE LINDE GROUP

Linde

# ISO 17025 Certificate

ANAB ACCREDITED TESTING LABORATORY

# Certificate of Analysis

**SHIPPED TO:**
Test America Inc
30 Community Drive Suite 11
South Burlington, VT 05403


Report ID: 23639
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 115931017 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1444262 | **Cylinder # :** | CC-133603 |
| **Certification Date:** | Feb-01-2018 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2705057 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO-17025 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24104980 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Feb-01-2019 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Reported Conc | Uncertainty (k=2 @ 95%) |
|---|---|---|---|---|
| Trans-1,3-Dichloropropene | 10061-02-6 | 1.000 ppm | 0.985 ppm | ± 0.028 ppm |
| 1,1,2-Trichloroethane | 79-00-5 | 1.000 ppm | 1.052 ppm | ± 0.004 ppm |
| Toluene | 108-88-3 | 1.000 ppm | 1.025 ppm | ± 0.004 ppm |
| Methyl Butyl Ketone | 591-78-6 | 1.000 ppm | 1.033 ppm | ± 0.004 ppm |
| Dibromochloromethane | 124-48-1 | 1.000 ppm | 1.060 ppm | ± 0.004 ppm |
| 1,2-Dibromoethane | 106-93-4 | 1.000 ppm | 1.058 ppm | ± 0.004 ppm |
| n-Octane | 111-65-9 | 1.000 ppm | 1.034 ppm | ± 0.004 ppm |
| Tetrachloroethylene | 127-18-4 | 1.000 ppm | 1.038 ppm | ± 0.004 ppm |
| Chlorobenzene | 108-90-7 | 1.000 ppm | 1.052 ppm | ± 0.004 ppm |
| Ethylbenzene | 100-41-4 | 1.000 ppm | 1.025 ppm | ± 0.004 ppm |
| p-xylene | 106-42-3 | 1.000 ppm | 1.027 ppm | ± 0.004 ppm |
| m-xylene | 108-38-3 | 1.000 ppm | 1.031 ppm | ± 0.004 ppm |
| Bromoform | 75-25-2 | 1.000 ppm | 1.030 ppm | ± 0.004 ppm |
| Styrene | 100-42-5 | 1.000 ppm | 1.037 ppm | ± 0.004 ppm |
| o-xylene | 95-47-6 | 1.000 ppm | 1.036 ppm | ± 0.004 ppm |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1.000 ppm | 1.034 ppm | ± 0.004 ppm |
| 1,2,3-Trichloropropane | 96-18-4 | 1.000 ppm | 1.051 ppm | ± 0.004 ppm |
| Nonane | 111-84-2 | 1.000 ppm | 1.051 ppm | ± 0.004 ppm |
| Cumene | 98-82-8 | 1.000 ppm | 1.041 ppm | ± 0.004 ppm |
| 2-Chlorotoluene | 95-49-8 | 1.000 ppm | 1.035 ppm | ± 0.004 ppm |
| n-Propylbenzene | 103-65-1 | 1.000 ppm | 1.036 ppm | ± 0.004 ppm |
| 4-Ethyltoluene | 622-96-8 | 1.000 ppm | 1.020 ppm | ± 0.004 ppm |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.000 ppm | 1.034 ppm | ± 0.004 ppm |
| alpha-Methyl Styrene (No Stabil | 98-83-9 | 1.000 ppm | 1.015 ppm | ± 0.004 ppm |
| Tert-Butyl Benzene | 98-06-6 | 1.000 ppm | 1.034 ppm | ± 0.004 ppm |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1.000 ppm | 1.038 ppm | ± 0.004 ppm |
| 1,3-Dichlorobenzene | 541-73-1 | 1.000 ppm | 1.033 ppm | ± 0.004 ppm |

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**Linde North America, Inc.**

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# ISO 17025 Certificate

ANAB ACCREDITED TESTING LABORATORY

# Certificate of Analysis

**SHIPPED TO:**
Test America Inc
30 Community Drive Suite 11
South Burlington, VT 05403

**PAGE:** **5 of 6**
Report ID: 23639
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 115931017 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1444262 | **Cylinder # :** | CC-133603 |
| **Certification Date:** | Feb-01-2018 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2705057 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO-17025 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24104980 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Feb-01-2019 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Reported Conc | Uncertainty (k=2 @ 95%) |
|---|---|---|---|---|
| Benzyl Chloride | 100-44-7 | 1.000 ppm | 1.032 ppm | ± 0.004 ppm |
| n-Decane | 124-18-5 | 1.000 ppm | 1.010 ppm | ± 0.004 ppm |
| 1,4-Dichlorobenzene | 106-46-7 | 1.000 ppm | 1.015 ppm | ± 0.004 ppm |
| Sec-Butyl Benzene | 135-98-8 | 1.000 ppm | 1.033 ppm | ± 0.004 ppm |
| 4-Isopropyltoluene | 99-87-6 | 1.000 ppm | 1.047 ppm | ± 0.004 ppm |
| 1,2-Dichlorobenzene | 95-50-1 | 1.000 ppm | 1.062 ppm | ± 0.004 ppm |
| n-Butyl Benzene | 104-51-8 | 1.000 ppm | 1.036 ppm | ± 0.004 ppm |
| n-Undecane | 1120-21-4 | 1.000 ppm | 1.056 ppm | ± 0.004 ppm |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1.000 ppm | 1.080 ppm | ± 0.039 ppm |
| Naphthalene | 91-20-3 | 1.000 ppm | 1.047 ppm | ± 0.004 ppm |
| n-Dodecane | 112-40-3 | 1.000 ppm | 1.039 ppm | ± 0.004 ppm |

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# ISO 17025 Certificate

ANAB ACCREDITED TESTING LABORATORY

# Certificate of Analysis

**SHIPPED TO:**
Test America Inc
30 Community Drive Suite 11
South Burlington, VT 05403

**PAGE:** **6 of 6**
Report ID: 23639
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 115931017 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1444262 | **Cylinder # :** | CC-133603 |
| **Certification Date:** | Feb-01-2018 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2705057 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO-17025 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24104980 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Feb-01-2019 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Reported Conc | Uncertainty (k=2 @ 95%) |
|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | 87-61-6 | 1.000 ppm | 1.073 ppm | ± 0.004 ppm |
| Hexachloro-1,3-Butadiene | 87-68-3 | 1.000 ppm | 1.060 ppm | ± 0.039 ppm |
| Nitrogen | 7727-37-9 | Balance | Balance | |

**ANALYST:** Lou Lorenzetti

**DATE:** Feb-01-2018

**Linde Spectra Environmental Gases**

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# Reagent

# ATTO15CISs_00010

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**PAGE:** 1 of 1

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Sales#:** | 113830245 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1371258 | **Cylinder # :** | CC-133684 |
| **Certification Date:** | Mar-24-2016 | **Cylinder Pressure:** | 2000 psig |
| **P.O.# :** | 2640230 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | CERTIFIED | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24088974 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Mar-24-2017 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Analytical Accuracy:** | 10% Relative |

| COMPONENT | CAS NUMBER | REQUESTED CONC | CERTIFIED CONC |
|---|---|---|---|
| Bromochloromethane | 74-97-5 | 100 ppb | 106 ppb |
| 1,4-Difluorobenzene | 540-36-3 | 100 ppb | 110 ppb |
| Chlorobenzene-d5 | 3114-55-4 | 100 ppb | 110 ppb |
| 4-Bromofluorobenzene | 460-00-4 | 100 ppb | 110 ppb |
| Nitrogen | 7727-37-9 | Balance | Balance |

941848
ID: ATTO15CISs_00010
Exp:06/14/21 Prpd:PAD Opn:06/14/16
Internal Standard for Ins

**ANALYST:** Lou Lorenzetti

**DATE:** Mar-24-2016

Linde Gas North America LLC

(908) 329-9700 Main (908) 329-9740 Fax
www.Lindeus.com

# Reagent

# ATTO15EthCALs_00009

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

# CERTIFICATE OF ANALYSIS

## Ethyl alcohol

| | |
|---|---|
| CATALOG NUMBER | N-11885-1G |
| LOT NUMBER | 5301900 |
| DATE CERTIFIED | 07/21/15 |
| EXPIRATION DATE | 07/31/21 |
| CAS NUMBER | 64-17-5 |
| MOLECULAR FORMULA | C2H6O |
| MOLECULAR WEIGHT | 46.07 |
| STORAGE | Store in a cool dry place. |
| HANDLING | See Safety Data Sheet |
| INTENDED USE | For laboratory use only. |
| ISO GUIDE 34 CERTIFIED | [ ] |

| Analytical Test | Value |
|---|---|
| % PURITY (GC/FID) | 99.5 |

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

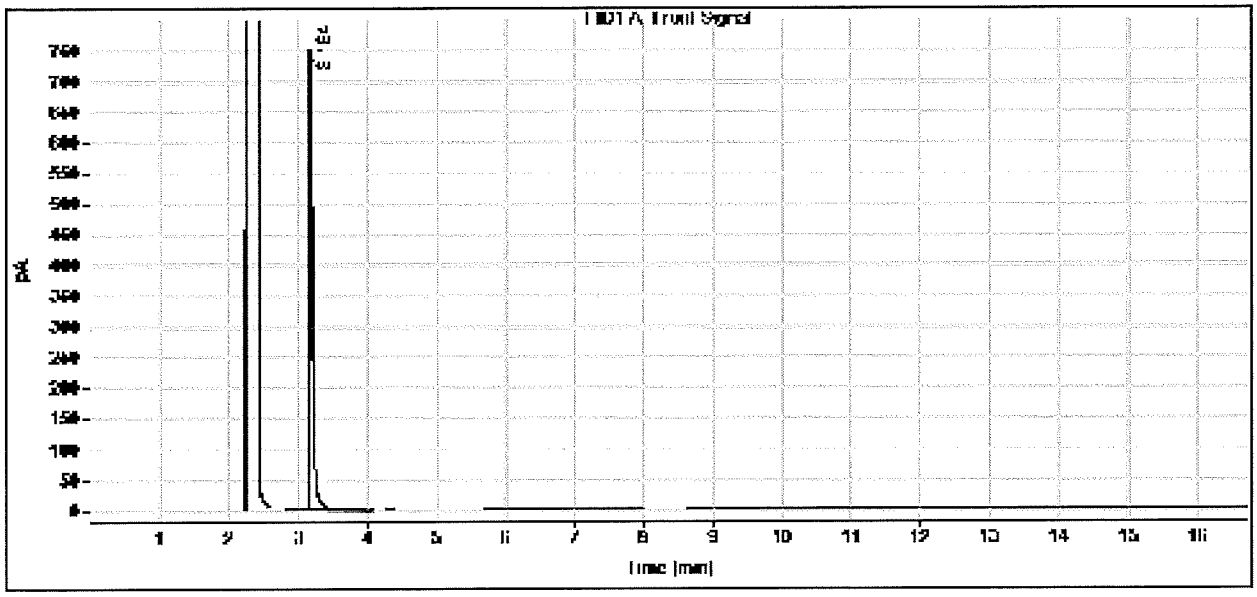
# CERTIFICATE OF ANALYSIS

## Gas Chromatography / Flame Ionization Detector (GC/FID)

**Data file:** C:\CHEM32\1\DATA\0715\SIG1006841.D

**Sample name:** N-11885

| | | | |
|---|---|---|---|
| **Instrument:** | GC 1 | **Sample type:** | Sample |
| **Injection date:** | 7/21/2015 10:30:34 AM | **Location:** | Vial 5 |
| **Acq. method:** | MIX1.M | **Injection volume:** | 1.0uL |
| **Column name:** | DB-624 (30m x 0.53mm x 3.0um) | | |




Signal: FID1 A, Front Signal

| RT [min] | Type | Width [min] | Area | Height | Area% |
|---|---|---|---|---|---|
| 3.184 | BB | 0.0537 | 2394.4050 | 741.5197 | 100.0000 |
| | | Sum | 2394.4050 | | |

Chem Service, Inc. is accredited to ISO Guide 34:2009, ISO/IEC 17025:2005 and certified to ISO 9001:2008

ISO/IEC 17025
Accreditation Number:63520

ISO GUIDE 34
Accreditation Number:63520

# Reagent

# ATTO15GIS_00015

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South Burlington, VT 05403

**PAGE:** 1 of 1

AT10SG-IS_00015
106742)

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Sales#:** | 115057976 | **Cylinder Size:** | 152 (8" X 47.5") |
| **Production#:** | 1415934 | **Cylinder # :** | CC-270535 |
| **Certification Date:** | May-08-2017 | **Cylinder Pressure:** | 2000 psig |
| **P.O.# :** | 2670646-Replacement | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | CERTIFIED | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24088974 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | May-08-2018 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Analytical Accuracy:** | 10% Relative |

| COMPONENT | CAS NUMBER | REQUESTED CONC | CERTIFIED CONC |
|---|---|---|---|
| Bromochloromethane | 74-97-5 | 100 ppb | 108 ppb |
| 1,4-Difluorobenzene | 540-36-3 | 100 ppb | 109 ppb |
| Chlorobenzene-d5 | 3114-55-4 | 100 ppb | 106 ppb |
| 4-Bromofluorobenzene | 460-00-4 | 100 ppb | 104 ppb |
| Nitrogen | 7727-37-9 | Balance | Balance |

**ANALYST:** Justin Kutz

**DATE:** May-08-2017

Linde Gas North America LLC

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www.Lindeus.com

# Reagent

# ATTO15LCSs_00024

7.5 Liters added to 15 Liter Canister 12/14/15

THE LINDE GROUP

Linde

# ISO Guide 34 Certificate

Tank D

# Certified Reference Material

888549
ID: ATTO15ISOs_00001
Exp: 04/01/18 Prpd: WRD
TO15 ISO Source Tank

Received AT Cyl 4/14/15

**SHIPPED TO:**
Test America Inc.
5815 Middlebrook Pike
Knoxville, TN 37921

**PAGE:** 1 of 5
Report ID: 15130
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 112391853 | **Cylinder Size:** | 2A (8" X 47.5") |
| **Production#:** | 1322796 | **Cylinder #:** | CC-118624 |
| **Certification Date:** | Apr-01-2015 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2587419 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO GUIDE 34 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24099132 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Apr-01-2016 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of 2 (K=2), providing a level of confidence of approximately 95% and has been carried out in accordance with ACLASS (ANSI-ASQ National Accreditation Board) and ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ACLASS. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

**Linde Spectra Environmental Gases**

**Linde North America, Inc.**

80 Industrial Drive, Alpha, NJ 08865
Phone: +1.908.329-9700 FAX: +1.908.329-9740
www.lideus.com

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# ISO Guide 34 Certificate

# Certified Reference Material

888549

ID: ATTO15ISOs_00001

Exp: 04/01/18 Prpd: WRD

TO15 ISO Source Tank

**SHIPPED TO:**
Test America Inc.
5815 Middlebrook Pike
Knoxville, TN 37921

**PAGE:** 2 of 5
Report ID: 15130
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 112391853 | **Cylinder Size:** | 2A (8" X 47.5") |
| **Production#:** | 1322796 | **Cylinder # :** | CC-118524 |
| **Certification Date:** | Apr-01-2015 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2587419 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO GUIDE 34 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24099132 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Apr-01-2016 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Certified Conc (k=2 @ 95%) |
|---|---|---|---|
| Propylene | 115-07-1 | 1.000 ppm | 1.033 ± 0.041 ppm |
| Chlorodifluoromethane | 75-45-6 | 1.000 ppm | 1.031 ± 0.032 ppm |
| Freon-12 | 75-71-8 | 1.000 ppm | 1.032 ± 0.016 ppm |
| Chloromethane | 74-87-3 | 1.000 ppm | 1.030 ± 0.036 ppm |
| Freon-114 | 76-14-2 | 1.000 ppm | 1.030 ± 0.011 ppm |
| Vinyl Chloride | 75-01-4 | 1.000 ppm | 1.033 ± 0.016 ppm |
| 1,3-Butadiene | 106-99-0 | 1.000 ppm | 1.032 ± 0.012 ppm |
| Methanol (No Stability Guarantee) | 67-56-1 | 1.000 ppm | 1.139 ± 0.276 ppm |
| n-Butane | 106-97-8 | 1.000 ppm | 1.032 ± 0.009 ppm |
| Bromomethane | 74-83-9 | 1.000 ppm | 1.032 ± 0.041 ppm |
| Chloroethane | 75-00-3 | 1.000 ppm | 1.033 ± 0.014 ppm |
| Vinyl Bromide | 593-60-2 | 1.000 ppm | 1.037 ± 0.010 ppm |
| Acetonitrile | 75-05-8 | 1.000 ppm | 1.036 ± 0.006 ppm |
| Acrolein | 107-02-8 | 1.000 ppm | 1.034 ± 0.101 ppm |
| Isopentane | 78-78-4 | 1.000 ppm | 1.036 ± 0.007 ppm |
| Acetone | 67-64-1 | 1.000 ppm | 1.034 ± 0.007 ppm |
| Freon-11 | 75-69-4 | 1.000 ppm | 1.031 ± 0.014 ppm |
| Isopropyl Alcohol | 67-63-0 | 1.000 ppm | 1.141 ± 0.008 ppm |
| Acrylonitrile | 107-13-1 | 1.000 ppm | 1.027 ± 0.007 ppm |
| n-Pentane | 109-66-0 | 1.000 ppm | 1.029 ± 0.007 ppm |
| Ethyl Ether | 60-29-7 | 1.000 ppm | 1.031 ± 0.007 ppm |
| 1,1-Dichloroethene | 75-35-4 | 1.000 ppm | 1.051 ± 0.006 ppm |
| Carbon Disulfide | 75-15-0 | 1.000 ppm | 1.042 ± 0.007 ppm |
| Methylene Chloride | 75-09-2 | 1.000 ppm | 1.034 ± 0.007 ppm |
| Tert-Butanol | 75-65-0 | 1.000 ppm | 1.113 ± 0.008 ppm |
| 3-Chloropropene | 107-05-1 | 1.000 ppm | 1.033 ± 0.007 ppm |
| Freon-113 | 76-13-1 | 1.000 ppm | 1.033 ± 0.006 ppm |

**Linde Spectra Environmental Gases**

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# ISO Guide 34 Certificate

# Certified Reference Material

888549
ID: ATTO15ISOs_00001
Exp: 04/01/18 Prpd: WRD
TO15 ISO Source Tank

**SHIPPED TO:**
Test Ameriea Inc.
5815 Middlebrook Pike
Knoxville, TN 37921


Report ID: 15130
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 112391853 | **Cylinder Size:** | 2A (8" X 47.5") |
| **Production#:** | 1322796 | **Cylinder # :** | CC-118624 |
| **Certification Date:** | Apr-01-2015 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2587419 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO GUIDE 34 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24099132 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Apr-01-2016 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Certified Conc (k=2 @ 95%) |
|---|---|---|---|
| Trans-1,2-Dichloroethene | 156-60-5 | 1.000 ppm | 1.040 ± 0.007 ppm |
| 1,1-Dichloroethane | 75-34-3 | 1.000 ppm | 1.032 ± 0.007 ppm |
| Methyl Tert Butyl Ether | 1634-04-4 | 1.000 ppm | 1.033 ± 0.007 ppm |
| Vinyl Acetate | 108-05-4 | 1.000 ppm | 1.114 ± 0.010 ppm |
| Methyl Ethyl Ketone | 78-93-3 | 1.000 ppm | 1.034 ± 0.009 ppm |
| Cis-1,2-Dichloroethene | 156-59-2 | 1.000 ppm | 1.037 ± 0.007 ppm |
| Hexane | 110-54-3 | 1.000 ppm | 1.037 ± 0.007 ppm |
| Chloroform | 67-66-3 | 1.000 ppm | 1.035 ± 0.007 ppm |
| Ethyl Acetate | 141-78-6 | 1.000 ppm | 1.033 ± 0.007 ppm |
| Tetrahydrofuran | 109-99-9 | 1.000 ppm | 1.037 ± 0.007 ppm |
| 1,2-Dichloroethane | 107-06-2 | 1.000 ppm | 1.030 ± 0.007 ppm |
| 1,1,1-Trichloroethane | 71-55-6 | 1.000 ppm | 1.030 ± 0.007 ppm |
| Benzene | 71-43-2 | 1.000 ppm | 1.030 ± 0.007 ppm |
| 1-Butanol | 71-36-3 | 1.000 ppm | 1.115 ± 0.034 ppm |
| Carbon Tetrachloride | 56-23-5 | 1.000 ppm | 1.034 ± 0.013 ppm |
| Cyclohexane | 110-82-7 | 1.000 ppm | 1.032 ± 0.007 ppm |
| Dibromomethane | 74-95-3 | 1.000 ppm | 1.030 ± 0.008 ppm |
| 1,2-Dichloropropane | 78-87-5 | 1.000 ppm | 1.031 ± 0.008 ppm |
| Trichloroethylene | 79-01-6 | 1.000 ppm | 1.031 ± 0.007 ppm |
| Bromodichloromethane | 75-27-4 | 1.000 ppm | 1.034 ± 0.007 ppm |
| 1,4-Dioxane | 123-91-1 | 1.000 ppm | 1.034 ± 0.007 ppm |
| 2,2,4-Trimethylpentane | 540-84-1 | 1.000 ppm | 1.031 ± 0.007 ppm |
| Methyl Methacrylate | 80-62-6 | 1.000 ppm | 1.034 ± 0.008 ppm |
| Heptane | 142-82-5 | 1.000 ppm | 1.035 ± 0.007 ppm |
| Cis-1,3-Dichloropropene | 10061-01-5 | 1.000 ppm | 1.048 ± 0.028 ppm |
| Methyl Isobutyl Ketone | 108-10-1 | 1.000 ppm | 1.033 ± 0.007 ppm |
| Trans-1,3-Dichloropropene | 10061-02-6 | 1.000 ppm | 1.016 ± 0.028 ppm |

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THE LINDE GROUP

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# ISO Guide 34 Certificate

# Certified Reference Material

888549
ID: ATTO15ISOs_00001
Exp: 04/01/18 Prpd: WRD
TO15 ISO Source Tank

**SHIPPED TO:**
Test America Inc.
5815 Middlebrook Pike
Knoxville, TN 37921

**PAGE:** 4 of 5
Report ID: 15130
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 112391853 | **Cylinder Size:** | 2A (8" X 47.5") |
| **Production#:** | 1322796 | **Cylinder # :** | CC-118524 |
| **Certification Date:** | Apr-01-2015 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2587419 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO GUIDE 34 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24099132 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Apr-01-2016 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Certified Conc (k=2 @ 95%) |
|---|---|---|---|
| 1,1,2-Trichloroethane | 79-00-5 | 1.000 ppm | 1.035 ± 0.007 ppm |
| Toluene | 108-88-3 | 1.000 ppm | 1.033 ± 0.007 ppm |
| Methyl Butyl Ketone | 591-78-6 | 1.000 ppm | 1.035 ± 0.008 ppm |
| Dibromochloromethane | 124-48-1 | 1.000 ppm | 1.035 ± 0.007 ppm |
| 1,2-Dibromoethane | 106-93-4 | 1.000 ppm | 1.033 ± 0.008 ppm |
| n-Octane | 111-65-9 | 1.000 ppm | 1.027 ± 0.007 ppm |
| Tetrachloroethylene | 127-18-4 | 1.000 ppm | 1.035 ± 0.007 ppm |
| Chlorobenzene | 108-90-7 | 1.000 ppm | 1.032 ± 0.006 ppm |
| Ethylbenzene | 100-41-4 | 1.000 ppm | 1.032 ± 0.007 ppm |
| p-xylene | 106-42-3 | 1.000 ppm | 1.030 ± 0.007 ppm |
| m-xylene | 108-38-3 | 1.000 ppm | 1.034 ± 0.007 ppm |
| Bromoform | 75-25-2 | 1.000 ppm | 1.033 ± 0.007 ppm |
| Styrene | 100-42-5 | 1.000 ppm | 1.037 ± 0.007 ppm |
| o-xylene | 95-47-6 | 1.000 ppm | 1.038 ± 0.007 ppm |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1.000 ppm | 1.036 ± 0.007 ppm |
| 1,2,3-Trichloropropane | 96-18-4 | 1.000 ppm | 1.032 ± 0.007 ppm |
| Nonane | 111-84-2 | 1.000 ppm | 1.028 ± 0.007 ppm |
| Cumene | 98-82-8 | 1.000 ppm | 1.026 ± 0.007 ppm |
| 2-Chlorotoluene | 95-49-8 | 1.000 ppm | 1.027 ± 0.007 ppm |
| n-Propylbenzene | 103-65-1 | 1.000 ppm | 1.026 ± 0.007 ppm |
| 4-Ethyltoluene | 622-96-8 | 1.000 ppm | 1.032 ± 0.007 ppm |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.000 ppm | 1.030 ± 0.007 ppm |
| alpha-Methyl Styrene (No Stability Guarantee) | 98-83-9 | 1.000 ppm | 1.028 ± 0.008 ppm |
| Tert-Butyl Benzene | 98-06-6 | 1.000 ppm | 1.026 ± 0.008 ppm |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1.000 ppm | 1.030 ± 0.008 ppm |
| 1,3-Dichlorobenzene | 541-73-1 | 1.000 ppm | 1.034 ± 0.008 ppm |
| Benzyl Chloride | 100-44-7 | 1.000 ppm | 1.033 ± 0.008 ppm |

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THE LINDE GROUP

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# ISO Guide 34 Certificate

# Certified Reference Material

888549
ID: ATTO15ISOs_00001
Exp: 04/01/18 Prpd: WRD
TO15 ISO Source Tank

**SHIPPED TO:**
Test America Inc.
5815 Middlebrook Pike
Knoxville, TN 37921

**PAGE:** 5 of 5
Report ID: 15130
Revision: 0

| | | | |
|---|---|---|---|
| **Sales#:** | 112391853 | **Cylinder Size:** | 2A (8" X 47.5") |
| **Production#:** | 1322796 | **Cylinder # :** | CC-118524 |
| **Certification Date:** | Apr-01-2015 | **Cylinder Pressure:** | 2000 psig |
| **P.O.#:** | 2687419 | **Cylinder Valve:** | CGA 350 / Steel |
| **Blend Type:** | ISO GUIDE 34 | **Cylinder Volume:** | 29.5 Liter |
| **Material#:** | 24099132 | **Cylinder Material:** | Aluminum |
| **Traceability:** | NIST by weight | **Gas Volume:** | 4000 Liters |
| **Expiration Date:** | Apr-01-2016 | **Blend Tolerance:** | 10% Relative |
| **Do NOT use under:** | 150 psig | **Method of Analysis:** | GC-FID |

| COMPONENT | CAS Number | Requested Conc | Certified Conc (k=2 @ 95%) |
|---|---|---|---|
| n-Decane | 124-18-5 | 1.000 ppm | 1.027 ± 0.009 ppm |
| 1,4-Dichlorobenzene | 106-46-7 | 1.000 ppm | 1.032 ± 0.009 ppm |
| Sec-Butyl Benzene | 135-98-8 | 1.000 ppm | 1.027 ± 0.008 ppm |
| 4-Isopropyltoluene | 99-87-6 | 1.000 ppm | 1.026 ± 0.008 ppm |
| 1,2-Dichlorobenzene | 95-50-1 | 1.000 ppm | 1.037 ± 0.009 ppm |
| n-Butyl Benzene | 104-51-8 | 1.000 ppm | 1.027 ± 0.008 ppm |
| n-Undecane | 1120-21-4 | 1.000 ppm | 1.026 ± 0.010 ppm |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1.000 ppm | 1.032 ± 0.037 ppm |
| Naphthalene | 91-20-3 | 1.000 ppm | 1.036 ± 0.011 ppm |
| n-Dodecane | 112-40-3 | 1.000 ppm | 1.026 ± 0.011 ppm |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1.000 ppm | 1.027 ± 0.018 ppm |
| Hexachloro-1,3-Butadiene | 87-68-3 | 1.000 ppm | 1.034 ± 0.038 ppm |
| Nitrogen | 7727-37-9 | Balance | Balance |

ANALYST: Lou Lorenzetti

DATE: Apr-01-2015

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# Method TO15

## Volatile Organic Compounds (GC/MS) by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low Lab File ID: 200-33531-006.D

Lab ID: LCS 200-137819/6 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 11.4 | 114 | 68-128 | |
| Chlorodifluoromethane | 10.0 | 11.0 | 110 | 64-128 | |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 11.1 | 111 | 78-138 | |
| Chloromethane | 10.0 | 10.5 | 105 | 57-126 | |
| n-Butane | 10.0 | 10.3 | 103 | 56-130 | |
| Vinyl chloride | 10.0 | 10.1 | 101 | 62-125 | |
| 1,3-Butadiene | 10.0 | 10.3 | 103 | 59-125 | |
| Bromomethane | 10.0 | 10.7 | 107 | 68-128 | |
| Chloroethane | 10.0 | 10.8 | 108 | 65-125 | |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.7 | 107 | 67-127 | |
| Trichlorofluoromethane | 10.0 | 10.8 | 108 | 67-127 | |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 11.1 | 111 | 68-128 | |
| 1,1-Dichloroethene | 10.0 | 10.6 | 106 | 67-127 | |
| Acetone | 10.0 | 11.9 | 119 | 64-136 | |
| Isopropyl alcohol | 10.0 | 10.3 | 103 | 55-124 | |
| Carbon disulfide | 10.0 | 10.7 | 107 | 81-141 | |
| 3-Chloropropene | 10.0 | 10.9 | 109 | 53-133 | |
| Methylene Chloride | 10.0 | 10.9 | 109 | 62-122 | |
| tert-Butyl alcohol | 10.0 | 10.2 | 102 | 64-124 | |
| Methyl tert-butyl ether | 10.0 | 11.5 | 115 | 67-127 | |
| trans-1,2-Dichloroethene | 10.0 | 10.8 | 108 | 72-132 | |
| n-Hexane | 10.0 | 11.0 | 110 | 71-131 | |
| 1,1-Dichloroethane | 10.0 | 10.7 | 107 | 66-126 | |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 10.7 | 107 | 62-122 | |
| cis-1,2-Dichloroethene | 10.0 | 11.8 | 118 | 67-127 | |
| Chloroform | 10.0 | 11.2 | 112 | 69-129 | |
| Tetrahydrofuran | 10.0 | 9.40 | 94 | 61-136 | |
| 1,1,1-Trichloroethane | 10.0 | 9.75 | 98 | 70-130 | |
| Cyclohexane | 10.0 | 9.31 | 93 | 69-129 | |
| Carbon tetrachloride | 10.0 | 10.1 | 101 | 62-143 | |
| 2,2,4-Trimethylpentane | 10.0 | 9.45 | 94 | 67-127 | |
| Benzene | 10.0 | 10.6 | 106 | 67-127 | |
| 1,2-Dichloroethane | 10.0 | 10.3 | 103 | 67-132 | |
| n-Heptane | 10.0 | 9.99 | 100 | 62-130 | |
| Trichloroethene | 10.0 | 9.29 | 93 | 68-128 | |
| Methyl methacrylate | 10.0 | 9.83 | 98 | 70-130 | |
| 1,2-Dichloropropane | 10.0 | 11.2 | 112 | 67-127 | |
| 1,4-Dioxane | 10.0 | 9.74 | 97 | 66-132 | |
| Bromodichloromethane | 10.0 | 10.5 | 105 | 69-129 | |
| cis-1,3-Dichloropropene | 10.0 | 11.1 | 111 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low Lab File ID: 200-33531-006.D

Lab ID: LCS 200-137819/6 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 8.95 | 90 | 62-130 | |
| Toluene | 10.0 | 12.3 | 123 | 67-127 | |
| trans-1,3-Dichloropropene | 10.0 | 10.6 | 106 | 69-129 | |
| 1,1,2-Trichloroethane | 10.0 | 11.5 | 115 | 69-129 | |
| Tetrachloroethene | 10.0 | 11.5 | 115 | 70-130 | |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 9.34 | 93 | 61-127 | |
| Dibromochloromethane | 10.0 | 12.2 | 122 | 66-130 | |
| 1,2-Dibromoethane | 10.0 | 12.4 | 124 | 70-130 | |
| Chlorobenzene | 10.0 | 12.1 | 121 | 68-128 | |
| Ethylbenzene | 10.0 | 11.4 | 114 | 68-128 | |
| m,p-Xylene | 20.0 | 22.7 | 113 | 68-128 | |
| o-Xylene | 10.0 | 11.6 | 116 | 67-127 | |
| Styrene | 10.0 | 11.5 | 115 | 68-128 | |
| Bromoform | 10.0 | 12.8 | 129 | 34-170 | |
| Cumene | 10.0 | 11.5 | 115 | 67-127 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.2 | 102 | 69-129 | |
| n-Propylbenzene | 10.0 | 10.8 | 108 | 67-127 | |
| 4-Ethyltoluene | 10.0 | 11.0 | 110 | 69-129 | |
| 1,3,5-Trimethylbenzene | 10.0 | 11.0 | 110 | 65-125 | |
| 2-Chlorotoluene | 10.0 | 11.0 | 110 | 67-127 | |
| tert-Butylbenzene | 10.0 | 11.1 | 111 | 63-125 | |
| 1,2,4-Trimethylbenzene | 10.0 | 10.9 | 109 | 65-125 | |
| sec-Butylbenzene | 10.0 | 11.1 | 111 | 66-126 | |
| 4-Isopropyltoluene | 10.0 | 11.1 | 111 | 67-129 | |
| 1,3-Dichlorobenzene | 10.0 | 11.0 | 110 | 67-127 | |
| 1,4-Dichlorobenzene | 10.0 | 11.3 | 113 | 66-126 | |
| Benzyl chloride | 10.0 | 10.1 | 101 | 54-135 | |
| n-Butylbenzene | 10.0 | 10.7 | 107 | 67-127 | |
| 1,2-Dichlorobenzene | 10.0 | 10.9 | 109 | 67-127 | |
| 1,2,4-Trichlorobenzene | 10.0 | 8.14 | 81 | 59-126 | |
| Hexachlorobutadiene | 10.0 | 8.93 | 89 | 62-130 | |
| Naphthalene | 10.0 | 7.46 | 75 | 50-121 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low Lab File ID: 200-33558-004.D

Lab ID: LCS 200-137867/4 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 11.5 | 115 | 68-128 | |
| Chlorodifluoromethane | 10.0 | 10.4 | 104 | 64-128 | |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 11.1 | 111 | 78-138 | |
| Chloromethane | 10.0 | 10.1 | 101 | 57-126 | |
| n-Butane | 10.0 | 9.76 | 98 | 56-130 | |
| Vinyl chloride | 10.0 | 9.84 | 98 | 62-125 | |
| 1,3-Butadiene | 10.0 | 9.84 | 98 | 59-125 | |
| Bromomethane | 10.0 | 10.3 | 103 | 68-128 | |
| Chloroethane | 10.0 | 9.50 | 95 | 65-125 | |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.2 | 103 | 67-127 | |
| Trichlorofluoromethane | 10.0 | 10.3 | 103 | 67-127 | |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 10.2 | 102 | 68-128 | |
| 1,1-Dichloroethene | 10.0 | 9.99 | 100 | 67-127 | |
| Acetone | 10.0 | 9.93 | 99 | 64-136 | |
| Isopropyl alcohol | 10.0 | 9.76 | 98 | 55-124 | |
| Carbon disulfide | 10.0 | 10.4 | 104 | 81-141 | |
| 3-Chloropropene | 10.0 | 9.68 | 97 | 53-133 | |
| Methylene Chloride | 10.0 | 9.56 | 96 | 62-122 | |
| tert-Butyl alcohol | 10.0 | 10.0 | 100 | 64-124 | |
| Methyl tert-butyl ether | 10.0 | 9.79 | 98 | 67-127 | |
| trans-1,2-Dichloroethene | 10.0 | 9.65 | 97 | 72-132 | |
| n-Hexane | 10.0 | 9.81 | 98 | 71-131 | |
| 1,1-Dichloroethane | 10.0 | 9.39 | 94 | 66-126 | |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 8.94 | 89 | 62-122 | |
| cis-1,2-Dichloroethene | 10.0 | 10.5 | 105 | 67-127 | |
| Chloroform | 10.0 | 9.97 | 100 | 69-129 | |
| Tetrahydrofuran | 10.0 | 8.68 | 87 | 61-136 | |
| 1,1,1-Trichloroethane | 10.0 | 9.93 | 99 | 70-130 | |
| Cyclohexane | 10.0 | 9.61 | 96 | 69-129 | |
| Carbon tetrachloride | 10.0 | 10.2 | 102 | 62-143 | |
| 2,2,4-Trimethylpentane | 10.0 | 9.36 | 94 | 67-127 | |
| Benzene | 10.0 | 10.5 | 106 | 67-127 | |
| 1,2-Dichloroethane | 10.0 | 9.57 | 96 | 67-132 | |
| n-Heptane | 10.0 | 9.34 | 93 | 62-130 | |
| Trichloroethene | 10.0 | 9.61 | 96 | 68-128 | |
| Methyl methacrylate | 10.0 | 8.80 | 88 | 70-130 | |
| 1,2-Dichloropropane | 10.0 | 9.02 | 90 | 67-127 | |
| 1,4-Dioxane | 10.0 | 10.0 | 100 | 66-132 | |
| Bromodichloromethane | 10.0 | 10.5 | 105 | 69-129 | |
| cis-1,3-Dichloropropene | 10.0 | 9.71 | 97 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low Lab File ID: 200-33558-004.D

Lab ID: LCS 200-137867/4 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 8.55 | 86 | 62-130 | |
| Toluene | 10.0 | 9.98 | 100 | 67-127 | |
| trans-1,3-Dichloropropene | 10.0 | 9.36 | 94 | 69-129 | |
| 1,1,2-Trichloroethane | 10.0 | 9.70 | 97 | 69-129 | |
| Tetrachloroethene | 10.0 | 11.2 | 112 | 70-130 | |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 8.43 | 84 | 61-127 | |
| Dibromochloromethane | 10.0 | 11.3 | 113 | 66-130 | |
| 1,2-Dibromoethane | 10.0 | 10.1 | 101 | 70-130 | |
| Chlorobenzene | 10.0 | 10.1 | 101 | 68-128 | |
| Ethylbenzene | 10.0 | 9.57 | 96 | 68-128 | |
| m,p-Xylene | 20.0 | 18.9 | 95 | 68-128 | |
| o-Xylene | 10.0 | 9.67 | 97 | 67-127 | |
| Styrene | 10.0 | 9.81 | 98 | 68-128 | |
| Bromoform | 10.0 | 11.1 | 111 | 34-170 | |
| Cumene | 10.0 | 9.83 | 98 | 67-127 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.09 | 91 | 69-129 | |
| n-Propylbenzene | 10.0 | 9.42 | 94 | 67-127 | |
| 4-Ethyltoluene | 10.0 | 9.62 | 96 | 69-129 | |
| 1,3,5-Trimethylbenzene | 10.0 | 9.66 | 97 | 65-125 | |
| 2-Chlorotoluene | 10.0 | 9.59 | 96 | 67-127 | |
| tert-Butylbenzene | 10.0 | 9.81 | 98 | 63-125 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.69 | 97 | 65-125 | |
| sec-Butylbenzene | 10.0 | 9.86 | 99 | 66-126 | |
| 4-Isopropyltoluene | 10.0 | 10.0 | 100 | 67-129 | |
| 1,3-Dichlorobenzene | 10.0 | 10.0 | 100 | 67-127 | |
| 1,4-Dichlorobenzene | 10.0 | 10.2 | 102 | 66-126 | |
| Benzyl chloride | 10.0 | 9.08 | 91 | 54-135 | |
| n-Butylbenzene | 10.0 | 9.67 | 97 | 67-127 | |
| 1,2-Dichlorobenzene | 10.0 | 10.0 | 100 | 67-127 | |
| 1,2,4-Trichlorobenzene | 10.0 | 7.90 | 79 | 59-126 | |
| Hexachlorobutadiene | 10.0 | 8.55 | 86 | 62-130 | |
| Naphthalene | 10.0 | 7.30 | 73 | 50-121 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low Lab File ID: 33574-4A.D

Lab ID: LCS 200-137900/5 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 11.0 | 110 | 68-128 | |
| Chlorodifluoromethane | 10.0 | 10.9 | 109 | 64-128 | |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 10.6 | 106 | 78-138 | |
| Chloromethane | 10.0 | 10.7 | 107 | 57-126 | |
| n-Butane | 10.0 | 10.6 | 107 | 56-130 | |
| Vinyl chloride | 10.0 | 10.5 | 105 | 62-125 | |
| 1,3-Butadiene | 10.0 | 10.6 | 106 | 59-125 | |
| Bromomethane | 10.0 | 10.8 | 108 | 68-128 | |
| Chloroethane | 10.0 | 10.9 | 109 | 65-125 | |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.8 | 108 | 67-127 | |
| Trichlorofluoromethane | 10.0 | 10.5 | 105 | 67-127 | |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 10.5 | 105 | 68-128 | |
| 1,1-Dichloroethene | 10.0 | 10.5 | 105 | 67-127 | |
| Acetone | 10.0 | 10.7 | 107 | 64-136 | |
| Isopropyl alcohol | 10.0 | 10.1 | 101 | 55-124 | |
| Carbon disulfide | 10.0 | 10.4 | 104 | 81-141 | |
| 3-Chloropropene | 10.0 | 10.4 | 104 | 53-133 | |
| Methylene Chloride | 10.0 | 10.5 | 105 | 62-122 | |
| tert-Butyl alcohol | 10.0 | 10.8 | 108 | 64-124 | |
| Methyl tert-butyl ether | 10.0 | 10.4 | 104 | 67-127 | |
| trans-1,2-Dichloroethene | 10.0 | 11.3 | 113 | 72-132 | |
| n-Hexane | 10.0 | 10.6 | 106 | 71-131 | |
| 1,1-Dichloroethane | 10.0 | 10.3 | 103 | 66-126 | |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 10.3 | 103 | 62-122 | |
| cis-1,2-Dichloroethene | 10.0 | 10.2 | 102 | 67-127 | |
| Chloroform | 10.0 | 12.6 | 126 | 69-129 | |
| Tetrahydrofuran | 10.0 | 8.05 | 80 | 61-136 | |
| 1,1,1-Trichloroethane | 10.0 | 9.35 | 94 | 70-130 | |
| Cyclohexane | 10.0 | 10.1 | 101 | 69-129 | |
| Carbon tetrachloride | 10.0 | 9.11 | 91 | 62-143 | |
| 2,2,4-Trimethylpentane | 10.0 | 10.8 | 108 | 67-127 | |
| Benzene | 10.0 | 10.2 | 102 | 67-127 | |
| 1,2-Dichloroethane | 10.0 | 10.0 | 100 | 67-132 | |
| n-Heptane | 10.0 | 11.3 | 113 | 62-130 | |
| Trichloroethene | 10.0 | 10.8 | 108 | 68-128 | |
| Methyl methacrylate | 10.0 | 11.3 | 113 | 70-130 | |
| 1,2-Dichloropropane | 10.0 | 11.9 | 119 | 67-127 | |
| 1,4-Dioxane | 10.0 | 10.6 | 106 | 66-132 | |
| Bromodichloromethane | 10.0 | 10.5 | 105 | 69-129 | |
| cis-1,3-Dichloropropene | 10.0 | 10.6 | 106 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low Lab File ID: 33574-4A.D

Lab ID: LCS 200-137900/5 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 11.4 | 114 | 62-130 | |
| Toluene | 10.0 | 10.3 | 103 | 67-127 | |
| trans-1,3-Dichloropropene | 10.0 | 10.1 | 101 | 69-129 | |
| 1,1,2-Trichloroethane | 10.0 | 10.6 | 106 | 69-129 | |
| Tetrachloroethene | 10.0 | 9.47 | 95 | 70-130 | |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 11.2 | 112 | 61-127 | |
| Dibromochloromethane | 10.0 | 10.1 | 101 | 66-130 | |
| 1,2-Dibromoethane | 10.0 | 10.4 | 104 | 70-130 | |
| Chlorobenzene | 10.0 | 10.1 | 102 | 68-128 | |
| Ethylbenzene | 10.0 | 10.3 | 103 | 68-128 | |
| m,p-Xylene | 20.0 | 20.5 | 102 | 68-128 | |
| o-Xylene | 10.0 | 10.3 | 103 | 67-127 | |
| Styrene | 10.0 | 10.9 | 109 | 68-128 | |
| Bromoform | 10.0 | 9.87 | 99 | 34-170 | |
| Cumene | 10.0 | 10.3 | 103 | 67-127 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.9 | 109 | 69-129 | |
| n-Propylbenzene | 10.0 | 10.5 | 105 | 67-127 | |
| 4-Ethyltoluene | 10.0 | 10.3 | 103 | 69-129 | |
| 1,3,5-Trimethylbenzene | 10.0 | 10.1 | 102 | 65-125 | |
| 2-Chlorotoluene | 10.0 | 10.2 | 102 | 67-127 | |
| tert-Butylbenzene | 10.0 | 9.98 | 100 | 63-125 | |
| 1,2,4-Trimethylbenzene | 10.0 | 10.2 | 102 | 65-125 | |
| sec-Butylbenzene | 10.0 | 10.4 | 104 | 66-126 | |
| 4-Isopropyltoluene | 10.0 | 10.2 | 102 | 67-129 | |
| 1,3-Dichlorobenzene | 10.0 | 10.1 | 101 | 67-127 | |
| 1,4-Dichlorobenzene | 10.0 | 10.1 | 101 | 66-126 | |
| Benzyl chloride | 10.0 | 9.67 | 97 | 54-135 | |
| n-Butylbenzene | 10.0 | 10.8 | 108 | 67-127 | |
| 1,2-Dichlorobenzene | 10.0 | 10.1 | 101 | 67-127 | |
| 1,2,4-Trichlorobenzene | 10.0 | 8.97 | 90 | 59-126 | |
| Hexachlorobutadiene | 10.0 | 8.88 | 89 | 62-130 | |
| Naphthalene | 10.0 | 9.25 | 92 | 50-121 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 200-33531-005.D Lab Sample ID: MB 200-137819/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHG.i Date Analyzed: 12/05/2018 17:29

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 200-137819/6 | 200-33531-006.D | 12/05/2018 18:19 |
| AA-1_20181120 | 200-46353-1 | 200-33531-017.D | 12/06/2018 03:30 |
| IA-1_20181120 | 200-46353-2 | 200-33531-018.D | 12/06/2018 04:21 |
| IA-2_20181120 | 200-46353-3 | 200-33531-019.D | 12/06/2018 05:11 |
| IA-3_20181120 | 200-46353-4 | 200-33531-020.D | 12/06/2018 06:01 |
| IA-4_20181120 | 200-46353-5 | 200-33531-021.D | 12/06/2018 06:51 |
| IA-5_20181120 | 200-46353-6 | 200-33531-022.D | 12/06/2018 07:42 |
| MP-1_20181120 | 200-46353-7 | 200-33531-023.D | 12/06/2018 08:32 |
| MP-2_20181120 | 200-46353-8 | 200-33531-024.D | 12/06/2018 09:23 |
| MP-3_20181120 | 200-46353-9 | 200-33531-025.D | 12/06/2018 10:13 |

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 200-33558-005.D Lab Sample ID: MB 200-137867/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHG.i Date Analyzed: 12/06/2018 17:33

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 200-137867/4 | 200-33558-004.D | 12/06/2018 16:43 |
| IA-5_20181120 DL | 200-46353-6 DL | 200-33558-011.D | 12/06/2018 22:33 |
| MP-4_20181120 | 200-46353-10 | 200-33558-012.D | 12/06/2018 23:23 |
| MP-5_20181119 | 200-46353-11 | 200-33558-013.D | 12/07/2018 00:13 |

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 33574-05.D Lab Sample ID: MB 200-137900/6

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHC.i Date Analyzed: 12/07/2018 15:52

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 200-137900/5 | 33574-4A.D | 12/07/2018 14:59 |
| IA-1_20181120 DL | 200-46353-2 DL | 33574-06.D | 12/07/2018 16:45 |

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 33516-01A.D BFB Injection Date: 12/04/2018

Instrument ID: CHC.i BFB Injection Time: 18:02

Analysis Batch No.: 137783

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 20.6 | |
| 75 | 30.0 - 66.0% of mass 95 | 56.1 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 | |
| 173 | Less than 2.0% of mass 174 | 0.0 | (0.0) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 86.2 | |
| 175 | 4.0 - 9.0 % of mass 174 | 6.6 | (7.7) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 83.4 | (96.7) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.5 | (6.6) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 200-137783/4 | 33516-04.D | 12/04/2018 | 20:51 |
| | IC 200-137783/5 | 33516-05.D | 12/04/2018 | 21:44 |
| | IC 200-137783/6 | 33516-06.D | 12/04/2018 | 22:37 |
| | IC 200-137783/7 | 33516-07.D | 12/04/2018 | 23:31 |
| | ICIS 200-137783/8 | 33516-08.D | 12/05/2018 | 00:25 |
| | IC 200-137783/10 | 33516-10.D | 12/05/2018 | 02:11 |
| | IC 200-137783/11 | 33516-11.D | 12/05/2018 | 03:05 |
| | IC 200-137783/18 | 33516-18.D | 12/05/2018 | 09:17 |
| | ICV 200-137783/21 | 33516-21.D | 12/05/2018 | 11:56 |

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 33574-01.D BFB Injection Date: 12/07/2018

Instrument ID: CHC.i BFB Injection Time: 11:07

Analysis Batch No.: 137900

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 21.6 | |
| 75 | 30.0 - 66.0% of mass 95 | 54.8 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 | |
| 173 | Less than 2.0% of mass 174 | 0.0 | (0.0) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 74.6 | |
| 175 | 4.0 - 9.0 % of mass 174 | 5.6 | (7.6) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 72.7 | (97.5) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 | (6.7) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 200-137900/3 | 33574-03.D | 12/07/2018 | 12:44 |
| | LCS 200-137900/5 | 33574-4A.D | 12/07/2018 | 14:59 |
| | MB 200-137900/6 | 33574-05.D | 12/07/2018 | 15:52 |
| IA-1_20181120 DL | 200-46353-2 DL | 33574-06.D | 12/07/2018 | 16:45 |

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 200-33385-001.D BFB Injection Date: 11/27/2018

Instrument ID: CHG.i BFB Injection Time: 17:52

Analysis Batch No.: 137447

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 23.8 | |
| 75 | 30.0 - 66.0% of mass 95 | 56.7 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 | |
| 173 | Less than 2.0% of mass 174 | 0.3 | (0.4) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 69.1 | |
| 175 | 4.0 - 9.0 % of mass 174 | 5.0 | (7.3) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 68.2 | (98.7) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.5 | (6.6) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 200-137447/4 | 200-33385-004.D | 11/27/2018 | 20:22 |
| | IC 200-137447/5 | 200-33385-005.D | 11/27/2018 | 21:13 |
| | IC 200-137447/6 | 200-33385-006.D | 11/27/2018 | 22:03 |
| | IC 200-137447/7 | 200-33385-007.D | 11/27/2018 | 22:54 |
| | ICIS 200-137447/8 | 200-33385-008.D | 11/27/2018 | 23:44 |
| | IC 200-137447/9 | 200-33385-009.D | 11/28/2018 | 00:35 |
| | IC 200-137447/10 | 200-33385-010.D | 11/28/2018 | 01:25 |
| | IC 200-137447/11 | 200-33385-011.D | 11/28/2018 | 02:15 |
| | ICV 200-137447/15 | 200-33385-015.D | 11/28/2018 | 05:37 |

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 200-33531-001.D BFB Injection Date: 12/05/2018

Instrument ID: CHG.i BFB Injection Time: 14:11

Analysis Batch No.: 137819

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 21.0 | |
| 75 | 30.0 - 66.0% of mass 95 | 52.3 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 | |
| 173 | Less than 2.0% of mass 174 | 0.3 | (0.4) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 76.8 | |
| 175 | 4.0 - 9.0 % of mass 174 | 5.4 | (7.1) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 75.1 | (97.9) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.0 | (6.7) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 200-137819/3 | 200-33531-003.D | 12/05/2018 | 15:48 |
| | MB 200-137819/5 | 200-33531-005.D | 12/05/2018 | 17:29 |
| | LCS 200-137819/6 | 200-33531-006.D | 12/05/2018 | 18:19 |
| AA-1_20181120 | 200-46353-1 | 200-33531-017.D | 12/06/2018 | 03:30 |
| IA-1_20181120 | 200-46353-2 | 200-33531-018.D | 12/06/2018 | 04:21 |
| IA-2_20181120 | 200-46353-3 | 200-33531-019.D | 12/06/2018 | 05:11 |
| IA-3_20181120 | 200-46353-4 | 200-33531-020.D | 12/06/2018 | 06:01 |
| IA-4_20181120 | 200-46353-5 | 200-33531-021.D | 12/06/2018 | 06:51 |
| IA-5_20181120 | 200-46353-6 | 200-33531-022.D | 12/06/2018 | 07:42 |
| MP-1_20181120 | 200-46353-7 | 200-33531-023.D | 12/06/2018 | 08:32 |
| MP-2_20181120 | 200-46353-8 | 200-33531-024.D | 12/06/2018 | 09:23 |
| MP-3_20181120 | 200-46353-9 | 200-33531-025.D | 12/06/2018 | 10:13 |

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab File ID: 200-33558-001.D BFB Injection Date: 12/06/2018

Instrument ID: CHG.i BFB Injection Time: 14:19

Analysis Batch No.: 137867

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 18.5 | |
| 75 | 30.0 - 66.0% of mass 95 | 49.7 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 | |
| 173 | Less than 2.0% of mass 174 | 0.4 | (0.4) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 81.4 | |
| 175 | 4.0 - 9.0 % of mass 174 | 5.7 | (7.0) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 80.3 | (98.6) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 | (6.6) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 200-137867/3 | 200-33558-003.D | 12/06/2018 | 15:53 |
| | LCS 200-137867/4 | 200-33558-004.D | 12/06/2018 | 16:43 |
| | MB 200-137867/5 | 200-33558-005.D | 12/06/2018 | 17:33 |
| IA-5_20181120 DL | 200-46353-6 DL | 200-33558-011.D | 12/06/2018 | 22:33 |
| MP-4_20181120 | 200-46353-10 | 200-33558-012.D | 12/06/2018 | 23:23 |
| MP-5_20181119 | 200-46353-11 | 200-33558-013.D | 12/07/2018 | 00:13 |

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Sample No.: ICIS 200-137783/8 Date Analyzed: 12/05/2018 00:25

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 33516-08.D Heated Purge: (Y/N) N

Calibration ID: 40721

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 193200 | 10.23 | 1108113 | 12.21 | 1179025 | 18.25 |
| UPPER LIMIT | | 270480 | 10.56 | 1551358 | 12.54 | 1650635 | 18.58 |
| LOWER LIMIT | | 115920 | 9.90 | 664868 | 11.88 | 707415 | 17.92 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 200-137783/21 | | 260828 | 10.23 | 1515624 | 12.21 | 1580065 | 18.25 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Sample No.: CCVIS 200-137900/3 Date Analyzed: 12/07/2018 12:44

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 33574-03.D Heated Purge: (Y/N) N

Calibration ID: 40721

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 177245 | 10.23 | 1012310 | 12.21 | 1043244 | 18.24 |
| UPPER LIMIT | | 248143 | 10.56 | 1417234 | 12.54 | 1460542 | 18.57 |
| LOWER LIMIT | | 106347 | 9.90 | 607386 | 11.88 | 625946 | 17.91 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 200-137900/5 | | 180149 | 10.22 | 1311864 | 12.21 | 1362759 | 18.24 |
| MB 200-137900/6 | | 171771 | 10.23 | 963517 | 12.21 | 1183871 | 18.24 |
| 200-46353-2 DL | IA-1_20181120 DL | 221752 | 10.22 | 1256820 | 12.21 | 1235342 | 18.24 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Sample No.: ICIS 200-137447/8 Date Analyzed: 11/27/2018 23:44

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 200-33385-008.D Heated Purge: (Y/N) N

Calibration ID: 40668

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 974604 | 9.16 | 3462989 | 11.02 | 3487050 | 16.96 |
| UPPER LIMIT | | 1364446 | 9.49 | 4848185 | 11.35 | 4881870 | 17.29 |
| LOWER LIMIT | | 584762 | 8.83 | 2077793 | 10.69 | 2092230 | 16.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 200-137447/15 | | 1131202 | 9.16 | 5003919* | 11.02 | 4555708 | 16.96 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Sample No.: CCVIS 200-137819/3 Date Analyzed: 12/05/2018 15:48

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 200-33531-003.D Heated Purge: (Y/N) N

Calibration ID: 40668

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 645208 | 9.16 | 2855376 | 11.02 | 2611220 | 16.96 |
| UPPER LIMIT | | 903291 | 9.49 | 3997526 | 11.35 | 3655708 | 17.29 |
| LOWER LIMIT | | 387125 | 8.83 | 1713226 | 10.69 | 1566732 | 16.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 200-137819/5 | | 661137 | 9.15 | 2878946 | 11.01 | 2834161 | 16.96 |
| LCS 200-137819/6 | | 697703 | 9.16 | 3498401 | 11.02 | 3124165 | 16.96 |
| 200-46353-1 | AA-1_20181120 | 563024 | 9.15 | 2336649 | 11.01 | 2458172 | 16.96 |
| 200-46353-2 | IA-1_20181120 | 594049 | 9.16 | 2814494 | 11.01 | 2606476 | 16.96 |
| 200-46353-3 | IA-2_20181120 | 558007 | 9.15 | 2403809 | 11.01 | 2400767 | 16.95 |
| 200-46353-4 | IA-3_20181120 | 619684 | 9.15 | 2953990 | 11.01 | 2623869 | 16.95 |
| 200-46353-5 | IA-4_20181120 | 578523 | 9.15 | 2225579 | 11.01 | 2260849 | 16.96 |
| 200-46353-6 | IA-5_20181120 | 592709 | 9.15 | 2633468 | 11.01 | 2499919 | 16.96 |
| 200-46353-7 | MP-1_20181120 | 633540 | 9.15 | 2988260 | 11.01 | 2799162 | 16.96 |
| 200-46353-8 | MP-2_20181120 | 553071 | 9.15 | 2510211 | 11.01 | 2621499 | 16.95 |
| 200-46353-9 | MP-3_20181120 | 518756 | 9.15 | 1864000 | 11.01 | 2086875 | 16.96 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Sample No.: CCVIS 200-137867/3 Date Analyzed: 12/06/2018 15:53

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 200-33558-003.D Heated Purge: (Y/N) N

Calibration ID: 40668

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 647200 | 9.15 | 3195571 | 11.02 | 3000021 | 16.96 |
| UPPER LIMIT | | 906080 | 9.48 | 4473799 | 11.35 | 4200029 | 17.29 |
| LOWER LIMIT | | 388320 | 8.82 | 1917343 | 10.69 | 1800013 | 16.63 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 200-137867/4 | | 578882 | 9.15 | 2565414 | 11.01 | 2438923 | 16.96 |
| MB 200-137867/5 | | 525512 | 9.15 | 2113688 | 11.01 | 2238866 | 16.95 |
| 200-46353-6 DL | IA-5_20181120 DL | 558309 | 9.15 | 2402407 | 11.01 | 2415939 | 16.95 |
| 200-46353-10 | MP-4_20181120 | 535439 | 9.15 | 2151718 | 11.01 | 2127975 | 16.95 |
| 200-46353-11 | MP-5_20181119 | 502379 | 9.15 | 1993319 | 11.01 | 2094054 | 16.95 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120  Lab Sample ID: 200-46353-1

Matrix: Air  Lab File ID: 200-33531-017.D

Analysis Method: TO-15  Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL)  Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.58 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.54 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.0 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.25 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 6.5 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.26 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.83 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.25 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.036 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.36 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.80 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120  Lab Sample ID: 200-46353-1

Matrix: Air  Lab File ID: 200-33531-017.D

Analysis Method: TO-15  Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL)  Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.9 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 4.8 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.4 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 16 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 0.93 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.4 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.87 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.23 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.1 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.84 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.0 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120  Lab Sample ID: 200-46353-1

Matrix: Air  Lab File ID: 200-33531-017.D

Analysis Method: TO-15  Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL)  Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D
Lims ID: 200-46353-A-1
Client ID: AA-1_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 03:30:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-017
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 16:30:45 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: bunmaa Date: 06-Dec-2018 16:30:45

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.155 | -0.011 | 98 | 121190 | 0.5770 | |
| 3 Chlorodifluoromethane | 51 | 3.181 | 3.181 | 0.000 | 97 | 44499 | 0.4977 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.347 | 3.347 | -0.006 | 86 | 3289 | 0.0208 | 7M |
| 5 Chloromethane | 50 | 3.454 | 3.465 | -0.011 | 99 | 21986 | 0.5379 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 111861 | 2.03 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.754 | 4.760 | -0.006 | 97 | 41320 | 0.2489 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 88 | 8011 | 0.0685 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 286628 | 6.54 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.011 | -0.006 | 52 | 2178 | 0.0165 | M |
| 24 Isopropyl alcohol | 45 | 6.124 | 6.097 | 0.027 | 100 | 60781 | 1.25 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | U |
| 27 Methylene Chloride | 49 | 6.546 | 6.557 | -0.011 | 81 | 9915 | 0.2135 | |
| 28 2-Methyl-2-propanol | 59 | 6.814 | 6.771 | 0.043 | 82 | 9684 | 0.1308 | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | 7.290 | 7.279 | 0.011 | 84 | 13113 | 0.2638 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.793 | -0.005 | 98 | 13026 | 0.8282 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.152 | 0.000 | 73 | 563024 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | U |
| 42 Chloroform | 83 | 9.264 | 9.264 | -0.005 | 33 | 3942 | 0.0335 | M |
| 43 Cyclohexane | 84 | 9.521 | 9.521 | -0.010 | 94 | 13553 | 0.2527 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | U |
| 45 Carbon tetrachloride | 117 | 9.778 | 9.778 | -0.005 | 70 | 5042 | 0.0363 | |
| 46 Isooctane | 57 | 10.195 | 10.195 | 0.000 | 54 | 23819 | 0.1343 | M |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 47 Benzene | 78 | 10.216 | 10.211 | 0.000 | 97 | 44406 | 0.3569 | |
| 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| 49 n-Heptane | 43 | 10.564 | 10.564 | -0.011 | 83 | 13096 | 0.2046 | M |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2336649 | 10.0 | |
| 53 Trichloroethene | 95 | | 11.484 | | | | ND | |
| 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | U |
| 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | Ua |
| 65 Toluene | 92 | 14.063 | 14.068 | -0.005 | 96 | 80020 | 0.8036 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| 68 Tetrachloroethene | 166 | 15.133 | 15.143 | -0.010 | 91 | 18631 | 0.1563 | |
| 69 2-Hexanone | 43 | | 15.507 | | | | ND | MU |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2458172 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.016 | | | | ND | |
| 76 Ethylbenzene | 91 | 17.182 | 17.182 | 0.000 | 97 | 28182 | 0.1257 | |
| 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.433 | 0.005 | 0 | 38037 | 0.4185 | |
| 79 o-Xylene | 106 | 18.289 | 18.294 | -0.005 | 98 | 14265 | 0.1651 | |
| 80 Styrene | 104 | 18.337 | 18.337 | 0.000 | 59 | 3351 | 0.0253 | M |
| 81 Bromoform | 173 | | 18.781 | | | | ND | |
| 82 Isopropylbenzene | 105 | | 19.049 | | | | ND | Ua |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| 85 N-Propylbenzene | 91 | 19.840 | 19.840 | -0.006 | 78 | 6336 | 0.0211 | M |
| 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | U |
| 88 4-Ethyltoluene | 105 | 20.054 | 20.054 | 0.000 | 72 | 7354 | 0.0287 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.177 | -0.005 | 58 | 7613 | 0.0348 | |
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.798 | 0.005 | 96 | 20642 | 0.0955 | |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| 95 4-Isopropyltoluene | 119 | | 21.269 | | | | ND | U |
| 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| 97 1,4-Dichlorobenzene | 146 | 21.413 | 21.413 | -0.005 | 94 | 6300 | 0.0376 | a |
| 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

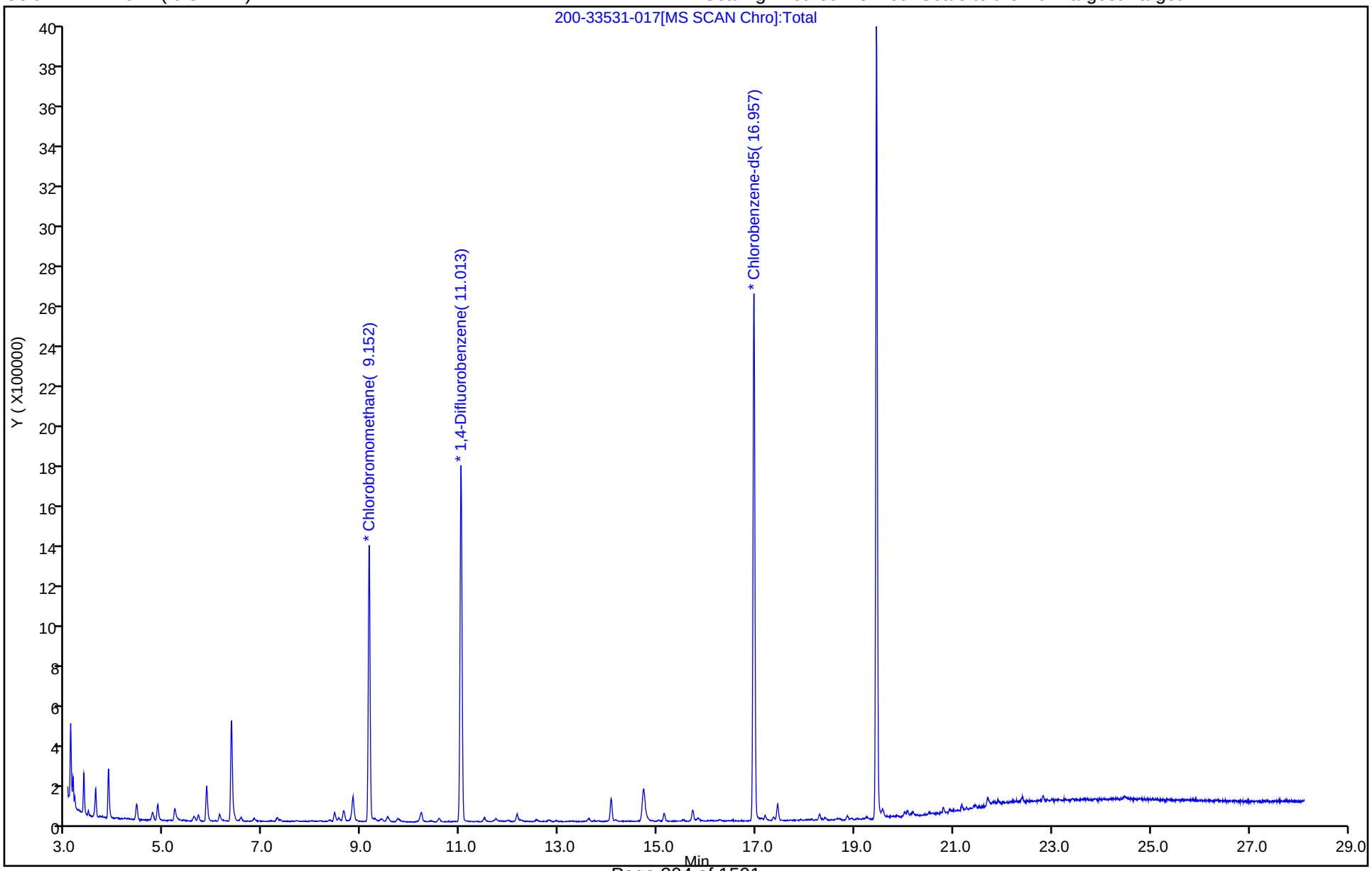
Report Date: 06-Dec-2018 16:30:45 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | Worklist Smp#: | 17 |
| Client ID: | AA-1_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 17 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



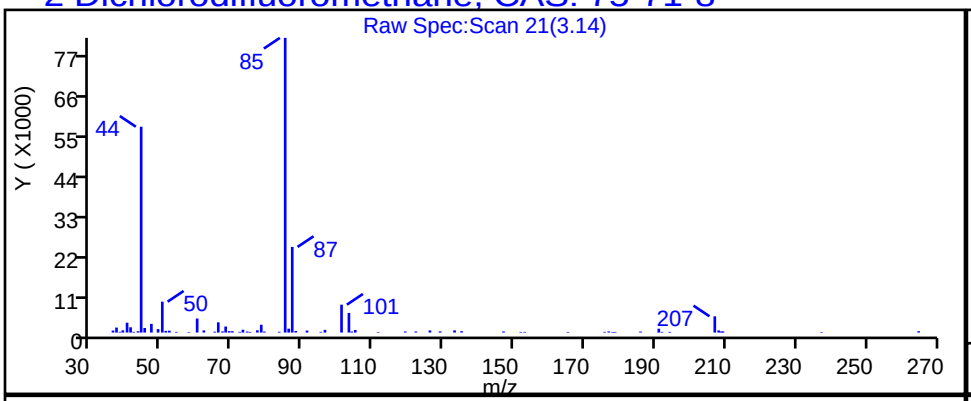
Report Date: 06-Dec-2018 16:30:45 Chrom Revision: 2.3 21-Nov-2018 13:56:44

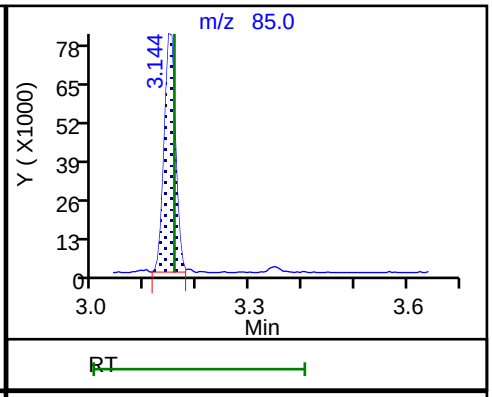
TestAmerica Burlington

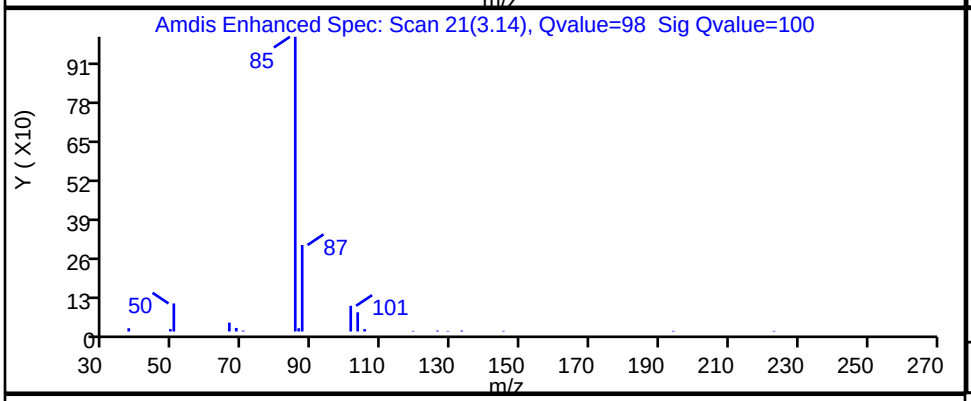
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

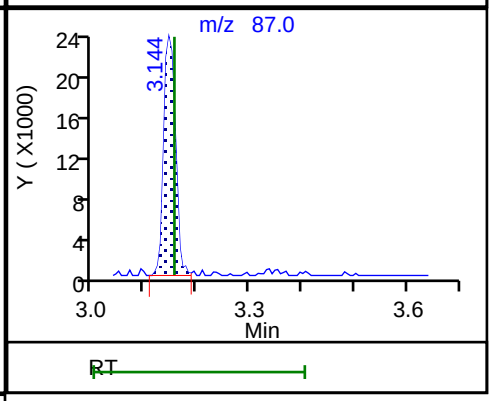
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

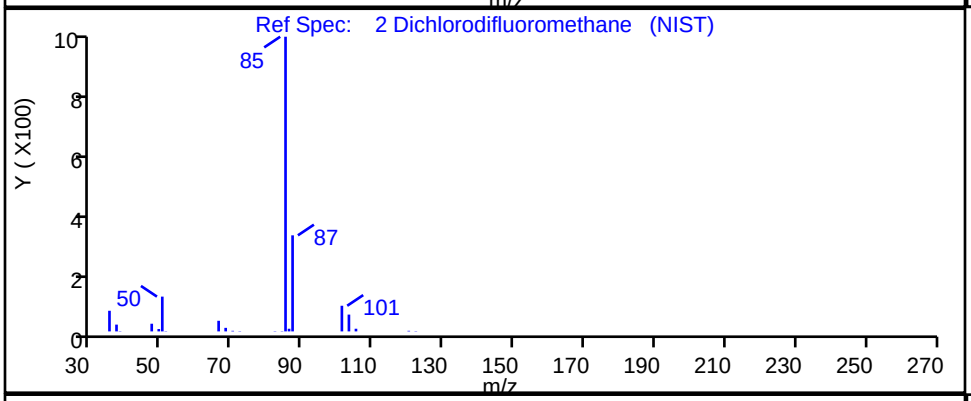
## 2 Dichlorodifluoromethane, CAS: 75-71-8

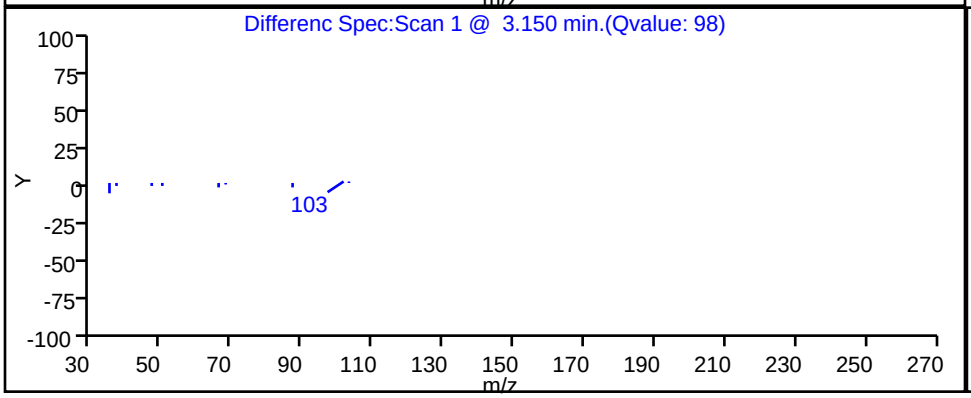


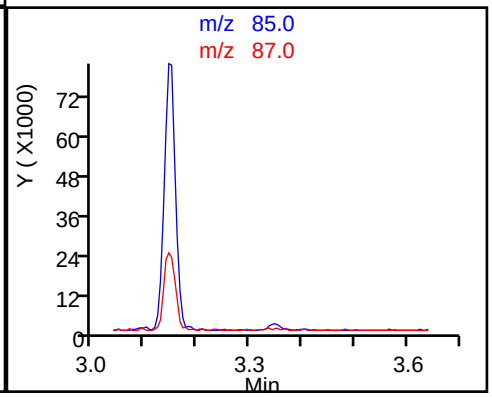



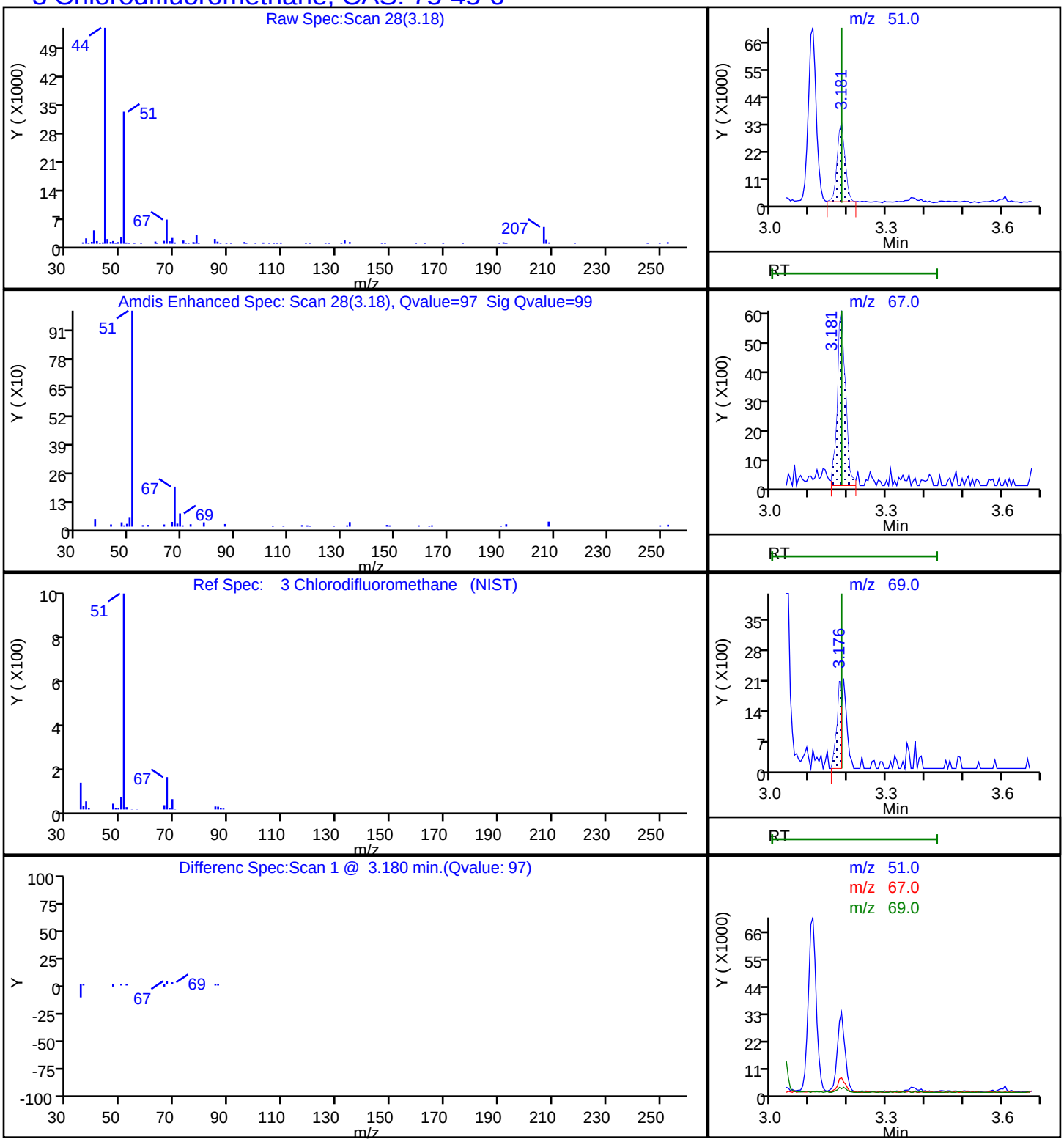
Report Date: 06-Dec-2018 16:30:45 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6



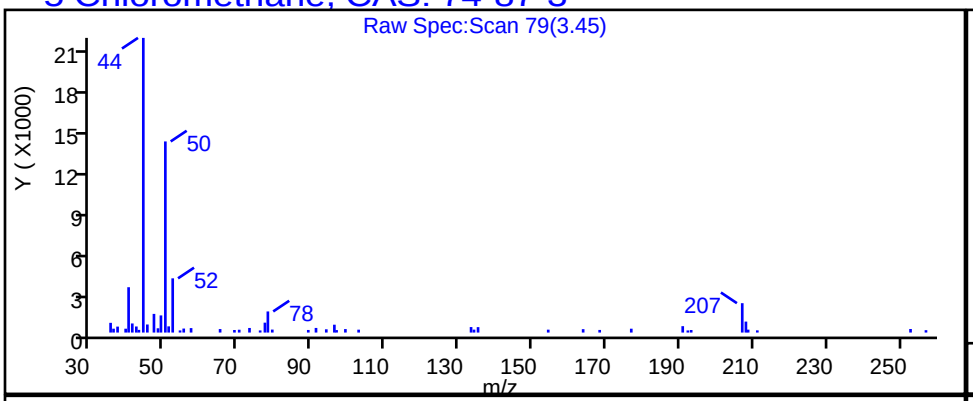
Report Date: 06-Dec-2018 16:30:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

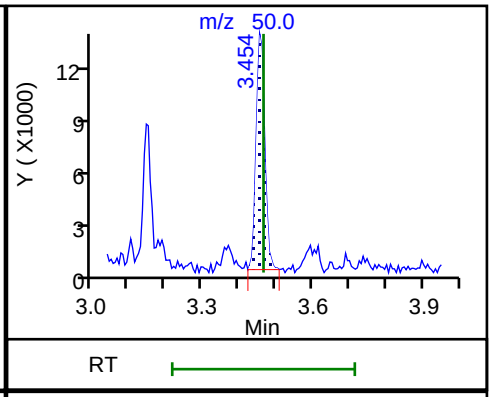
TestAmerica Burlington

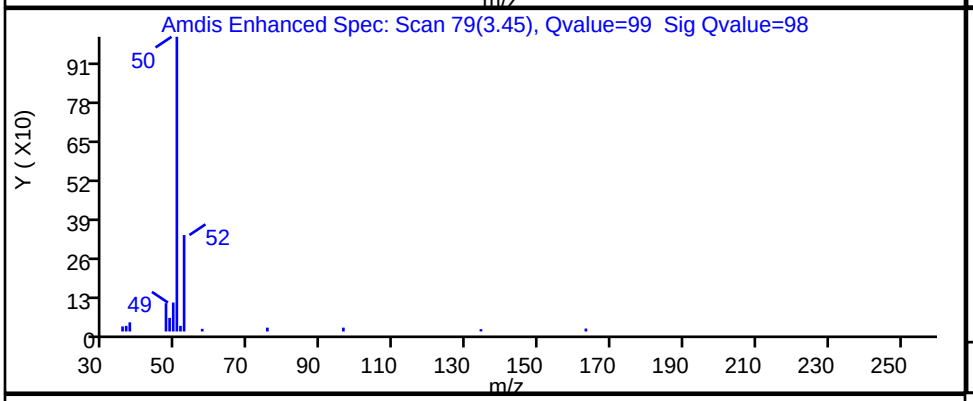
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

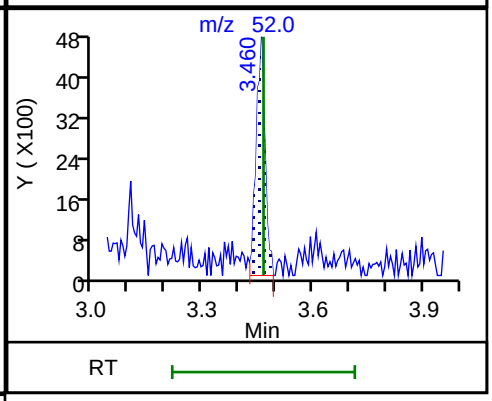
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

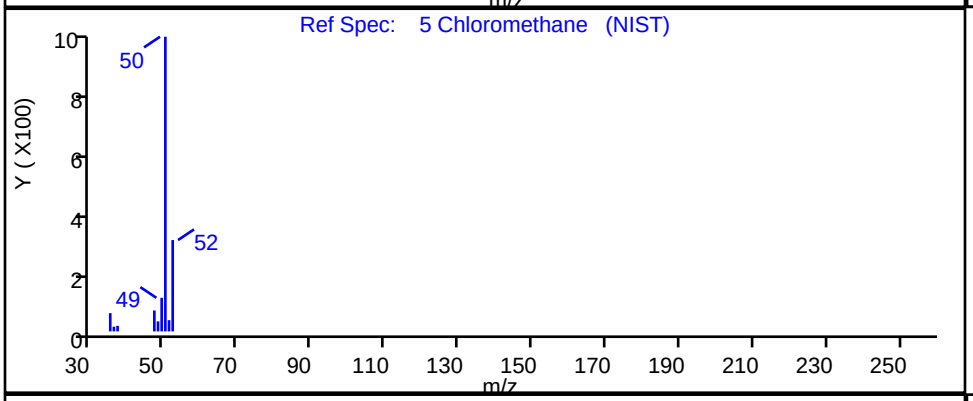
## 5 Chloromethane, CAS: 74-87-3

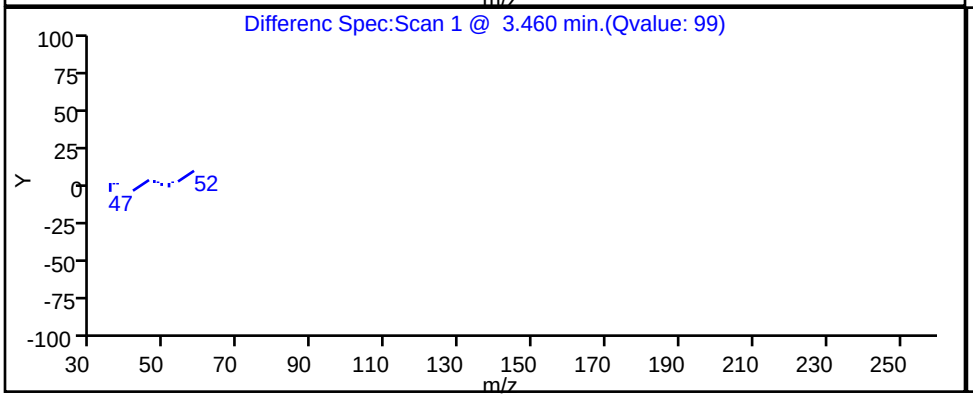


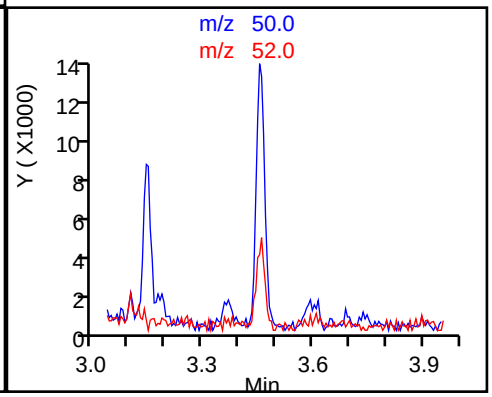



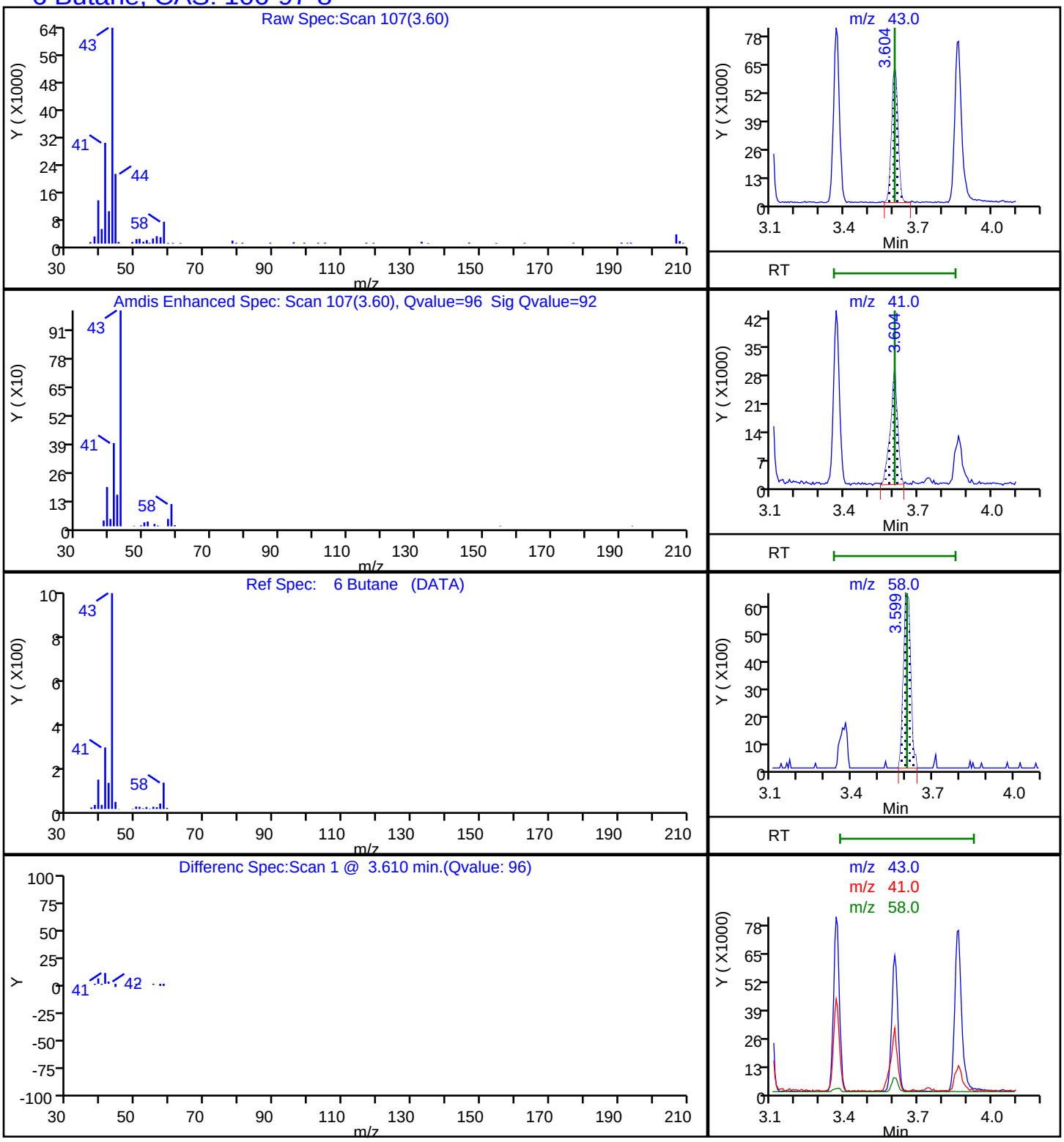
Report Date: 06-Dec-2018 16:30:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



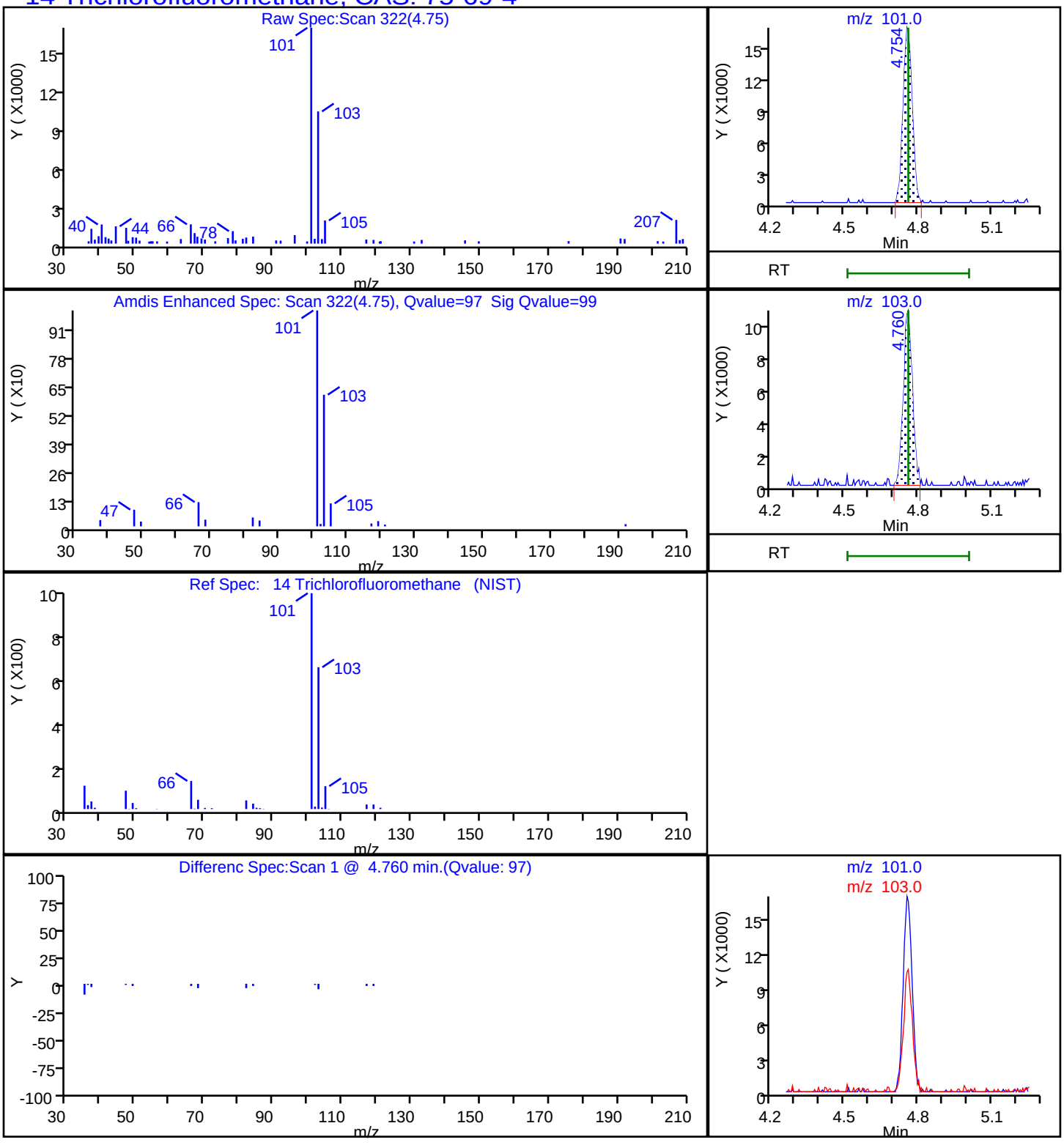
Report Date: 06-Dec-2018 16:30:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4



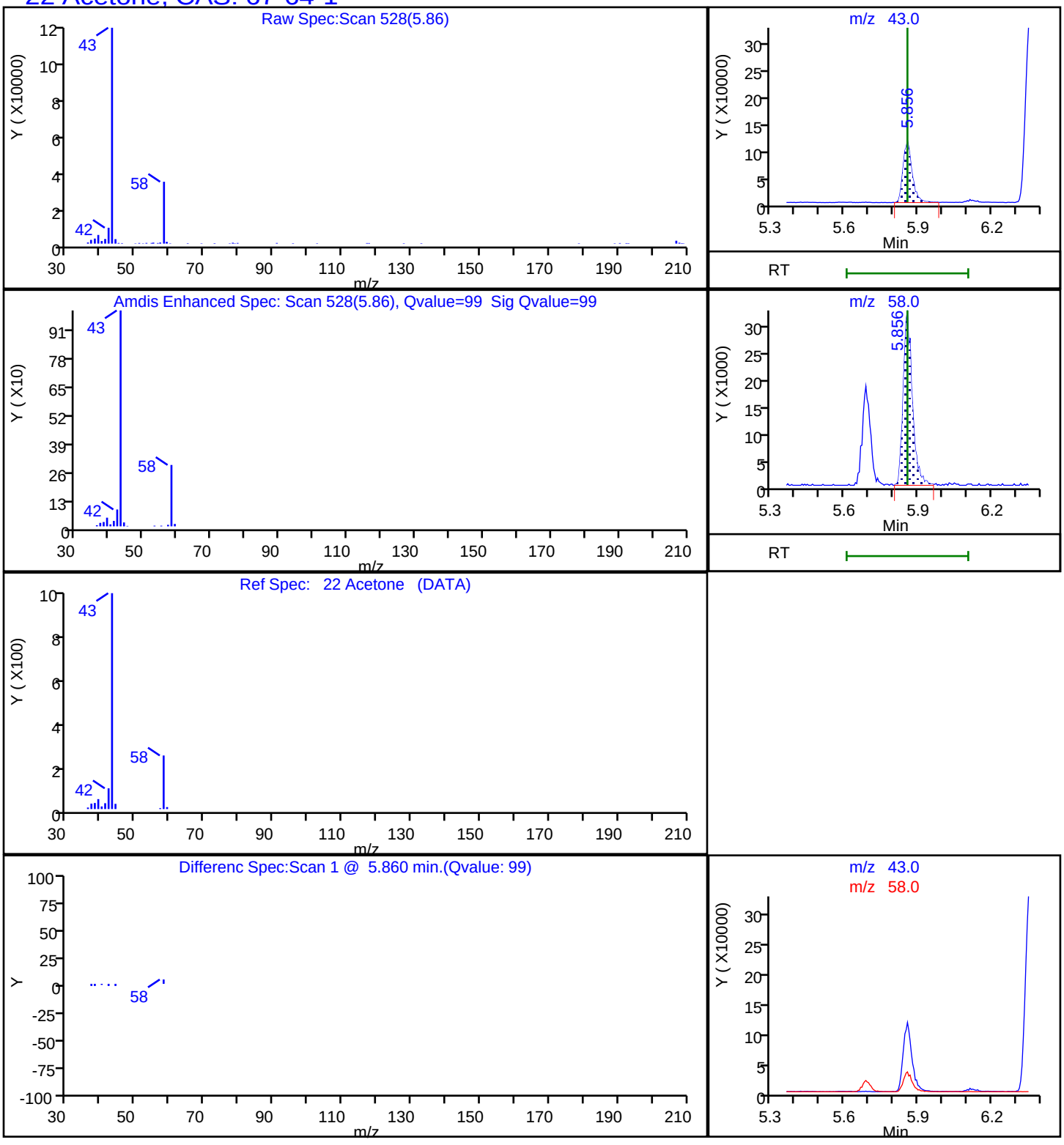
Report Date: 06-Dec-2018 16:30:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



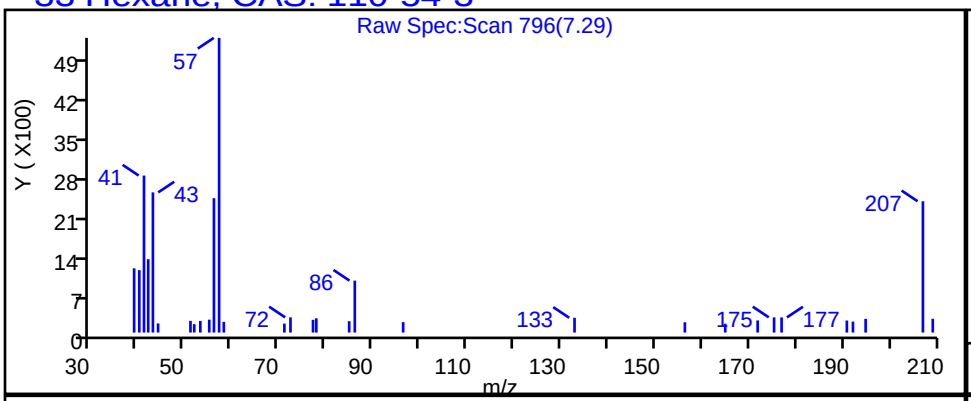
Report Date: 06-Dec-2018 16:30:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

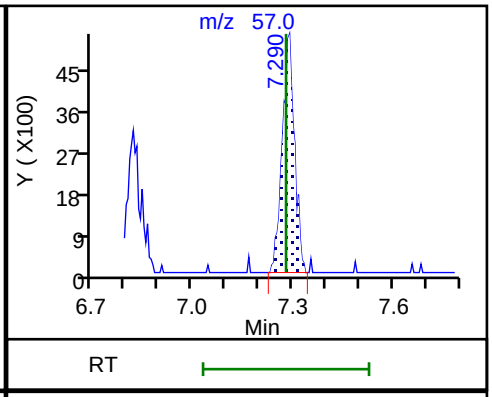
TestAmerica Burlington

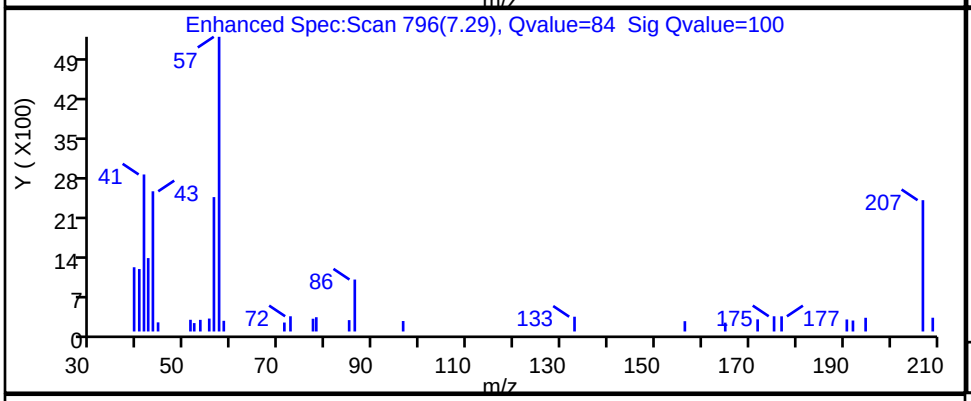
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

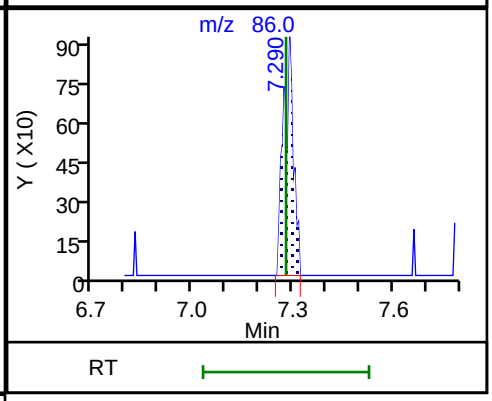
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

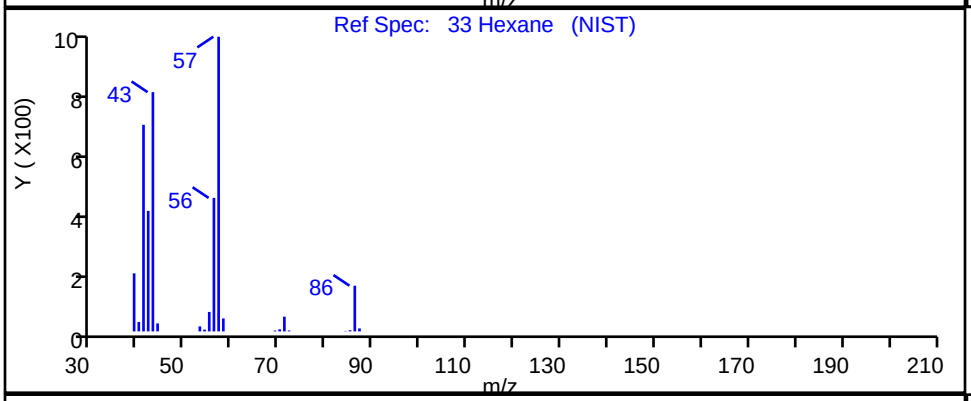
## 33 Hexane, CAS: 110-54-3

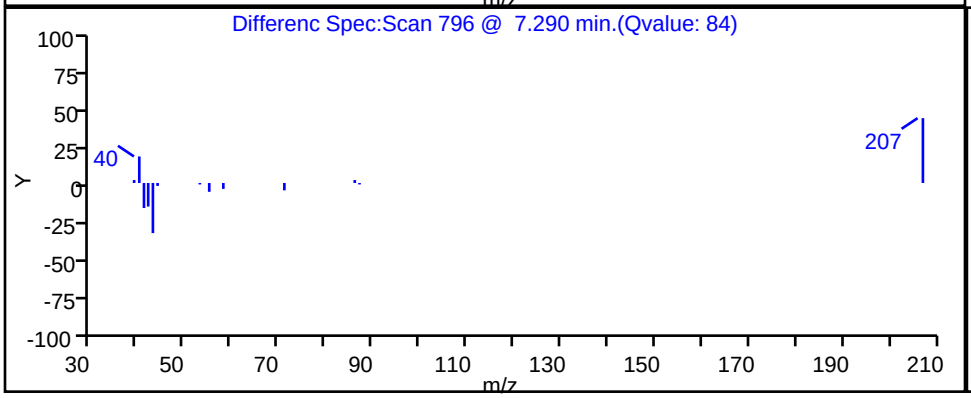


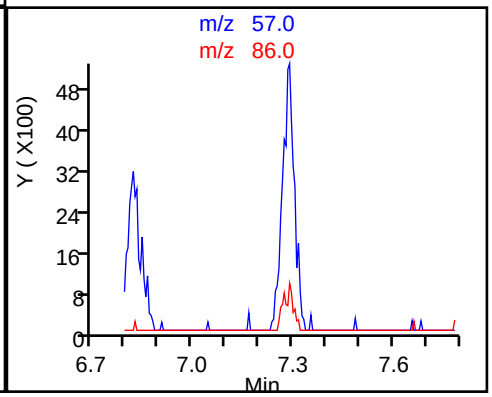



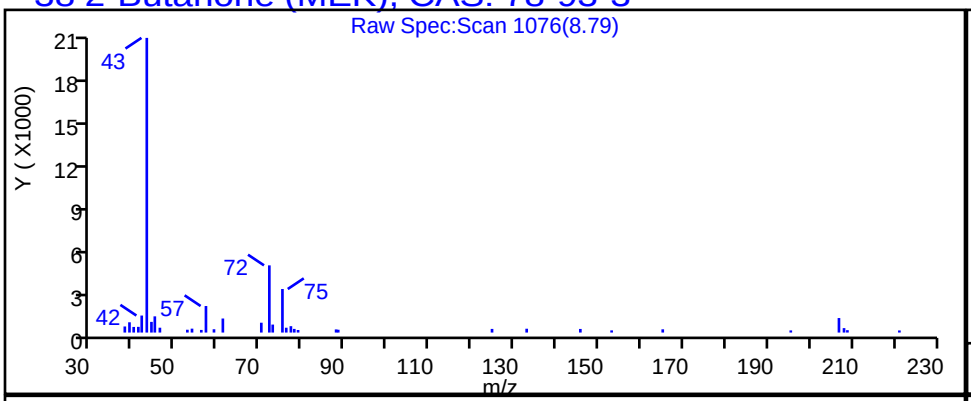
Report Date: 06-Dec-2018 16:30:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

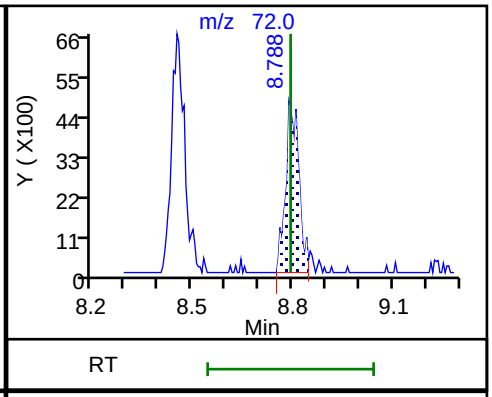
TestAmerica Burlington

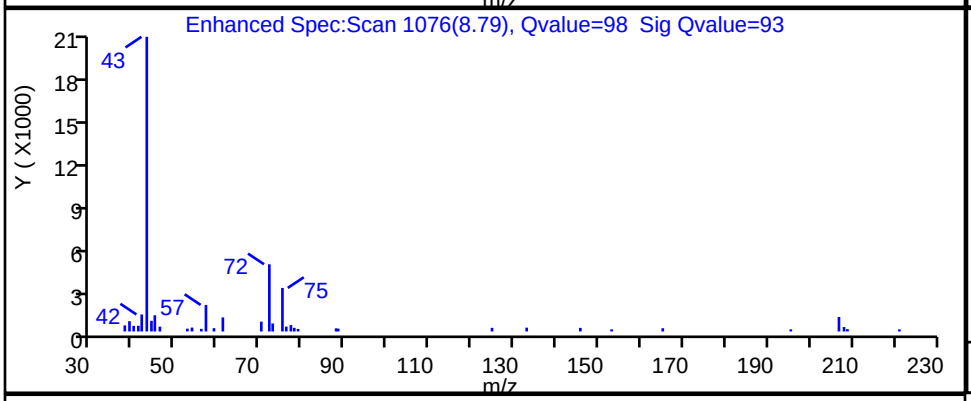
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

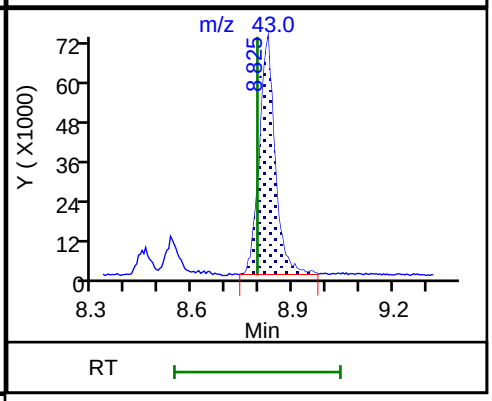
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

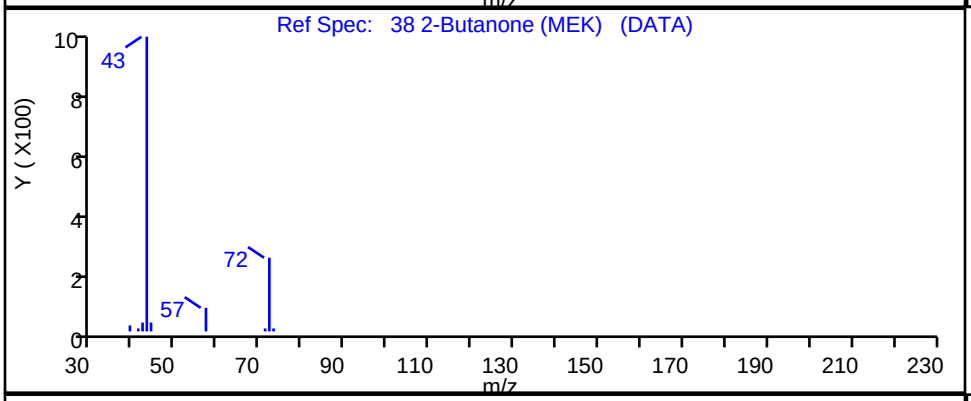
## 38 2-Butanone (MEK), CAS: 78-93-3

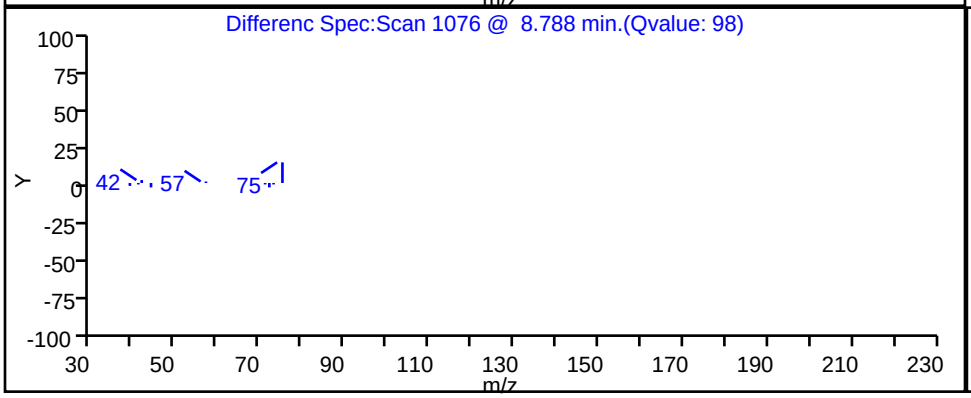


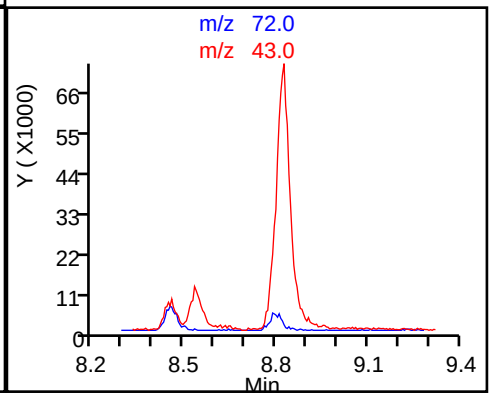



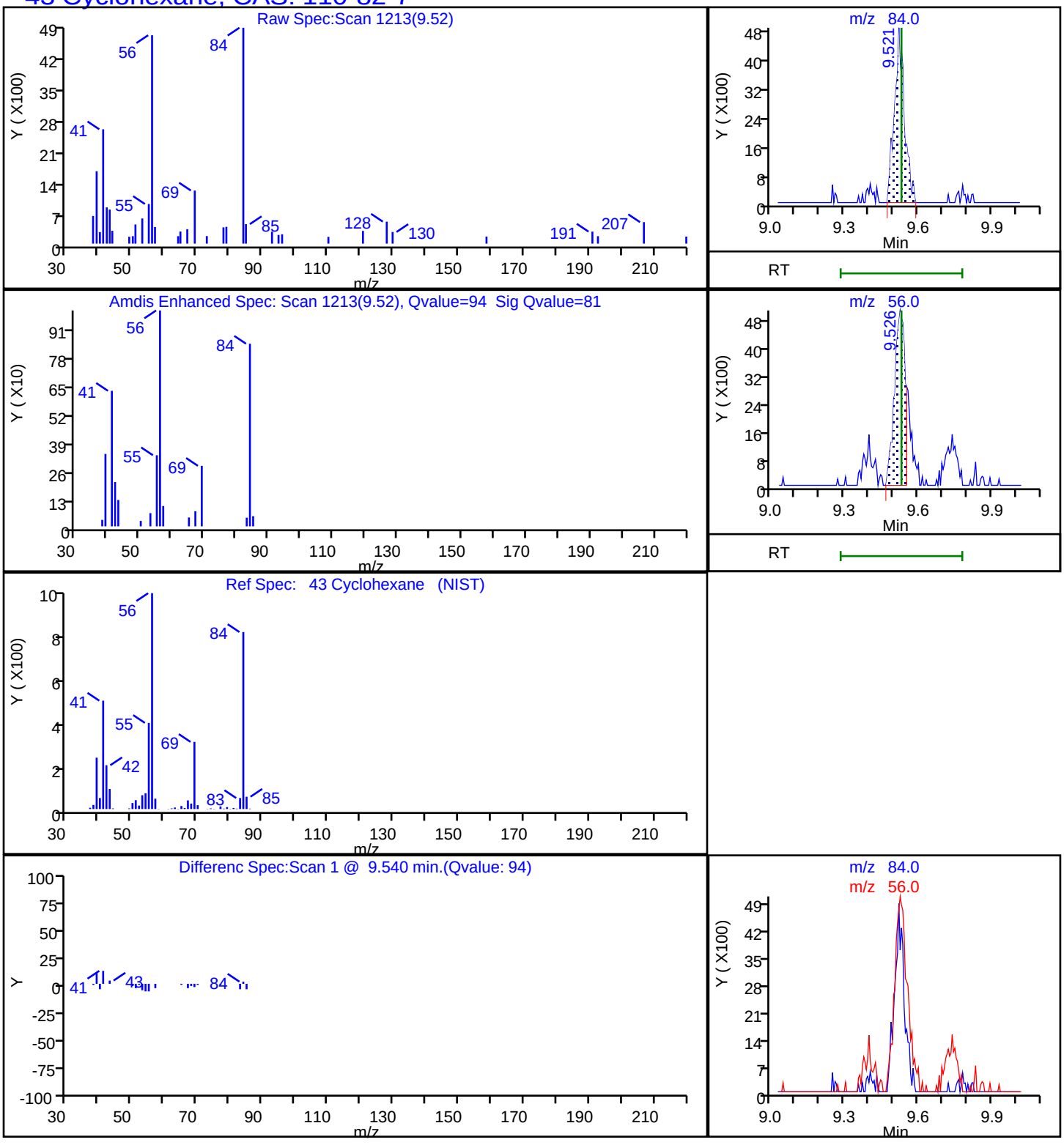



Report Date: 06-Dec-2018 16:30:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7



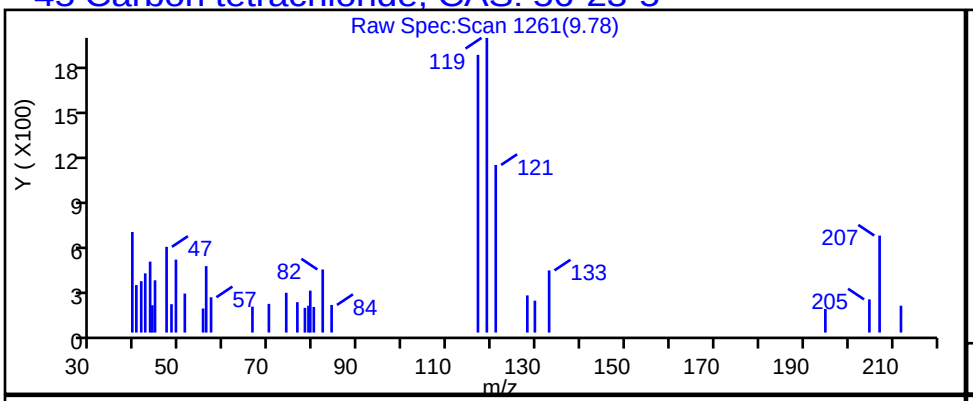
Report Date: 06-Dec-2018 16:30:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

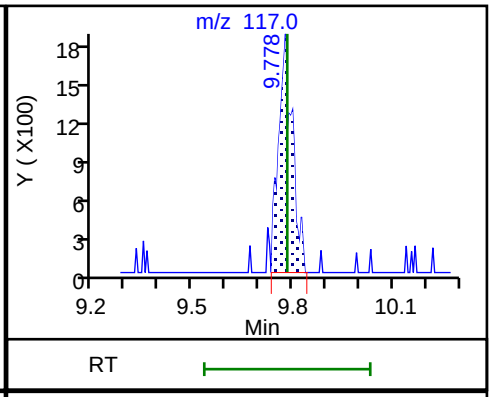
TestAmerica Burlington

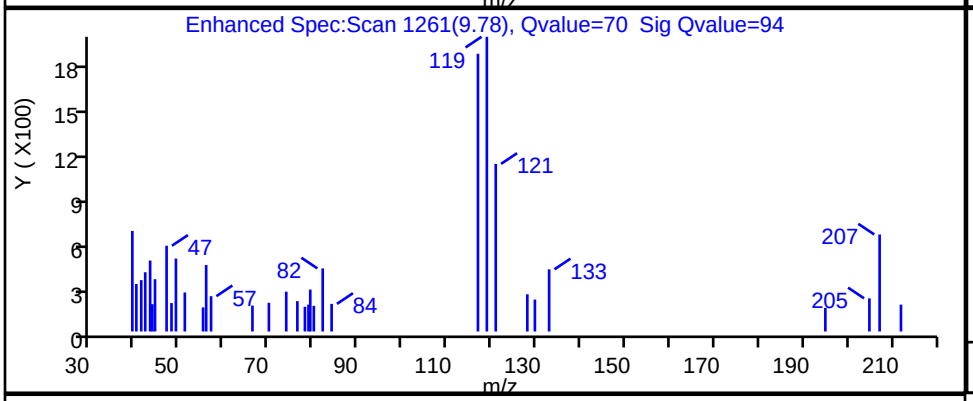
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

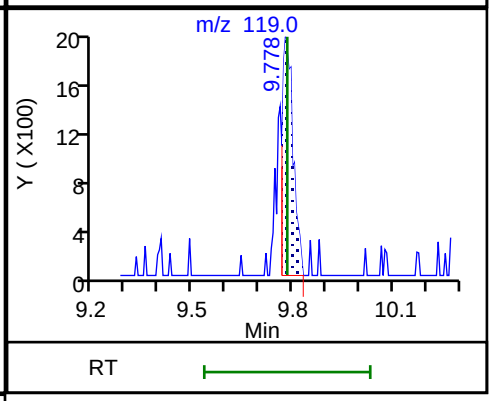
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

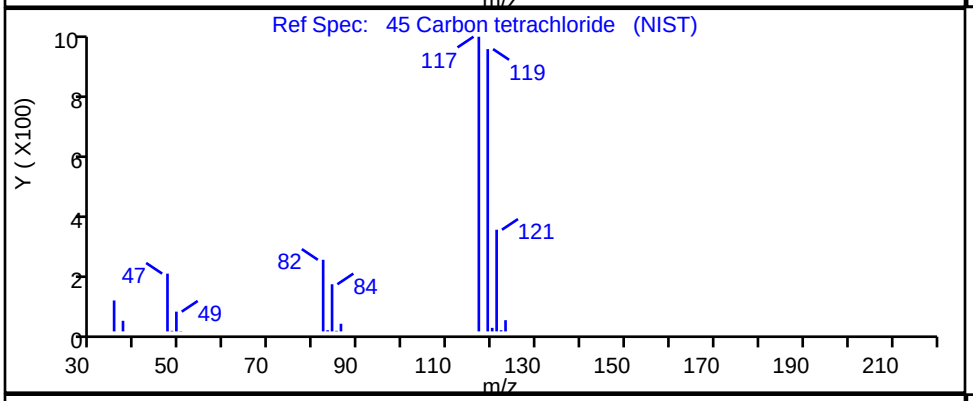
## 45 Carbon tetrachloride, CAS: 56-23-5

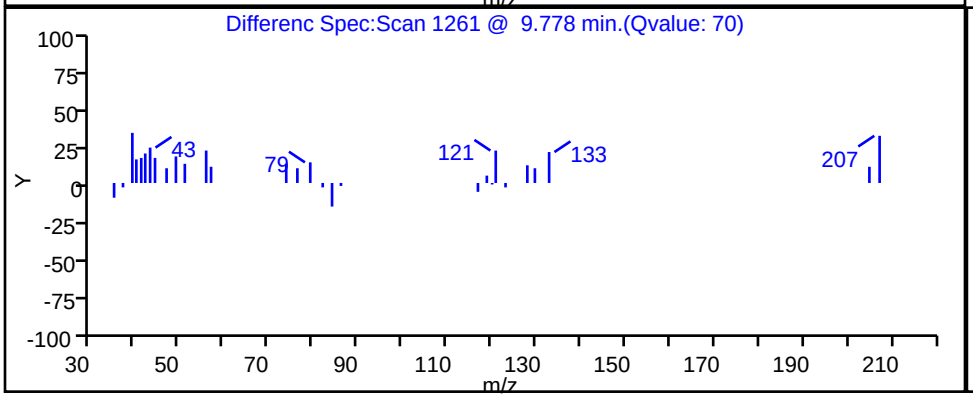


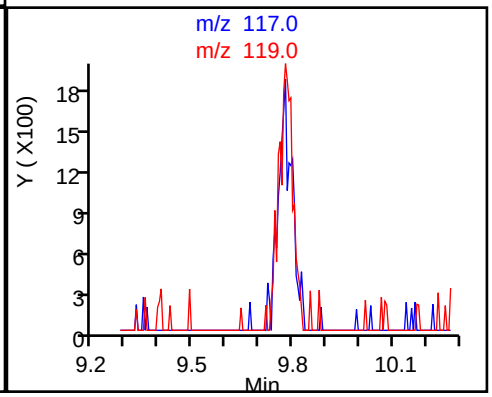



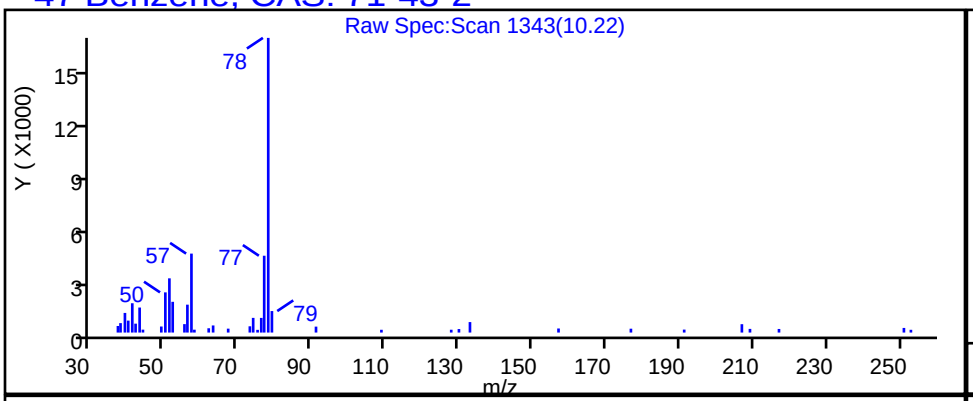
Report Date: 06-Dec-2018 16:30:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

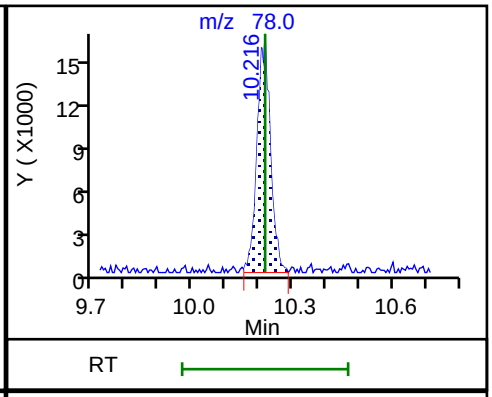
TestAmerica Burlington

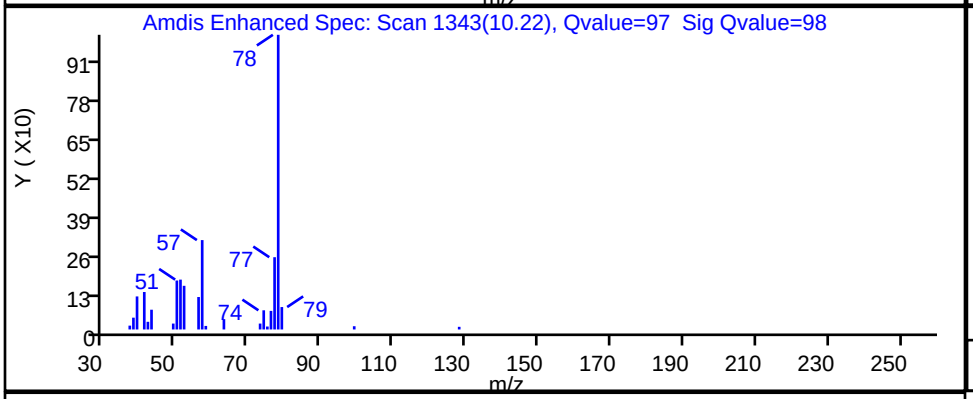
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

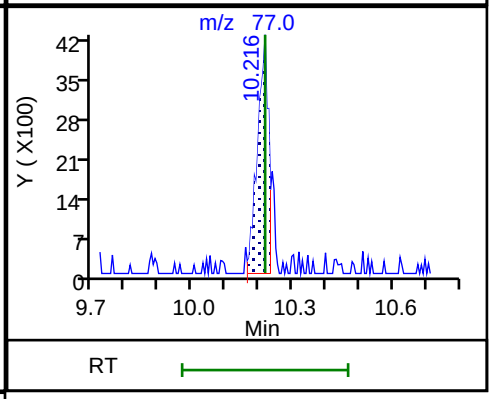
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

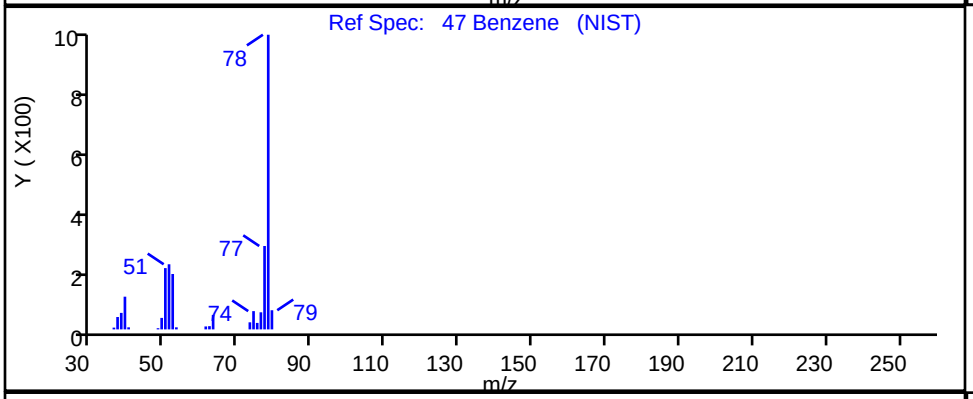
## 47 Benzene, CAS: 71-43-2

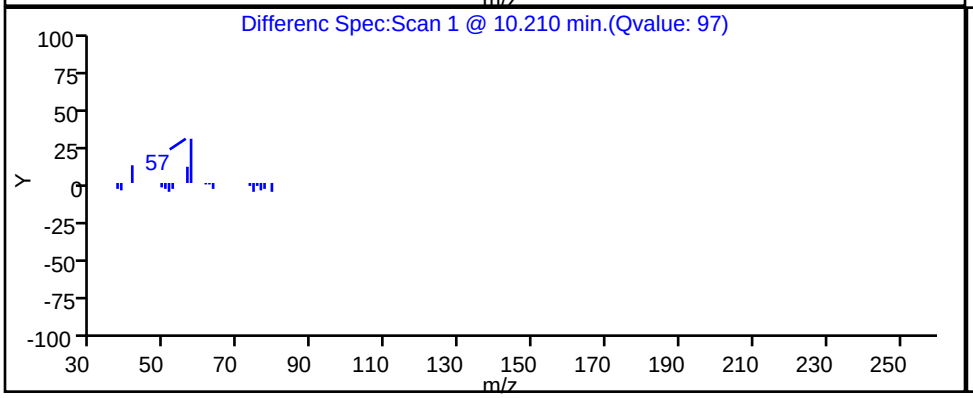


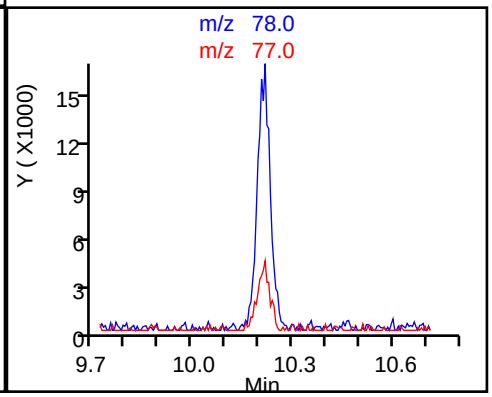



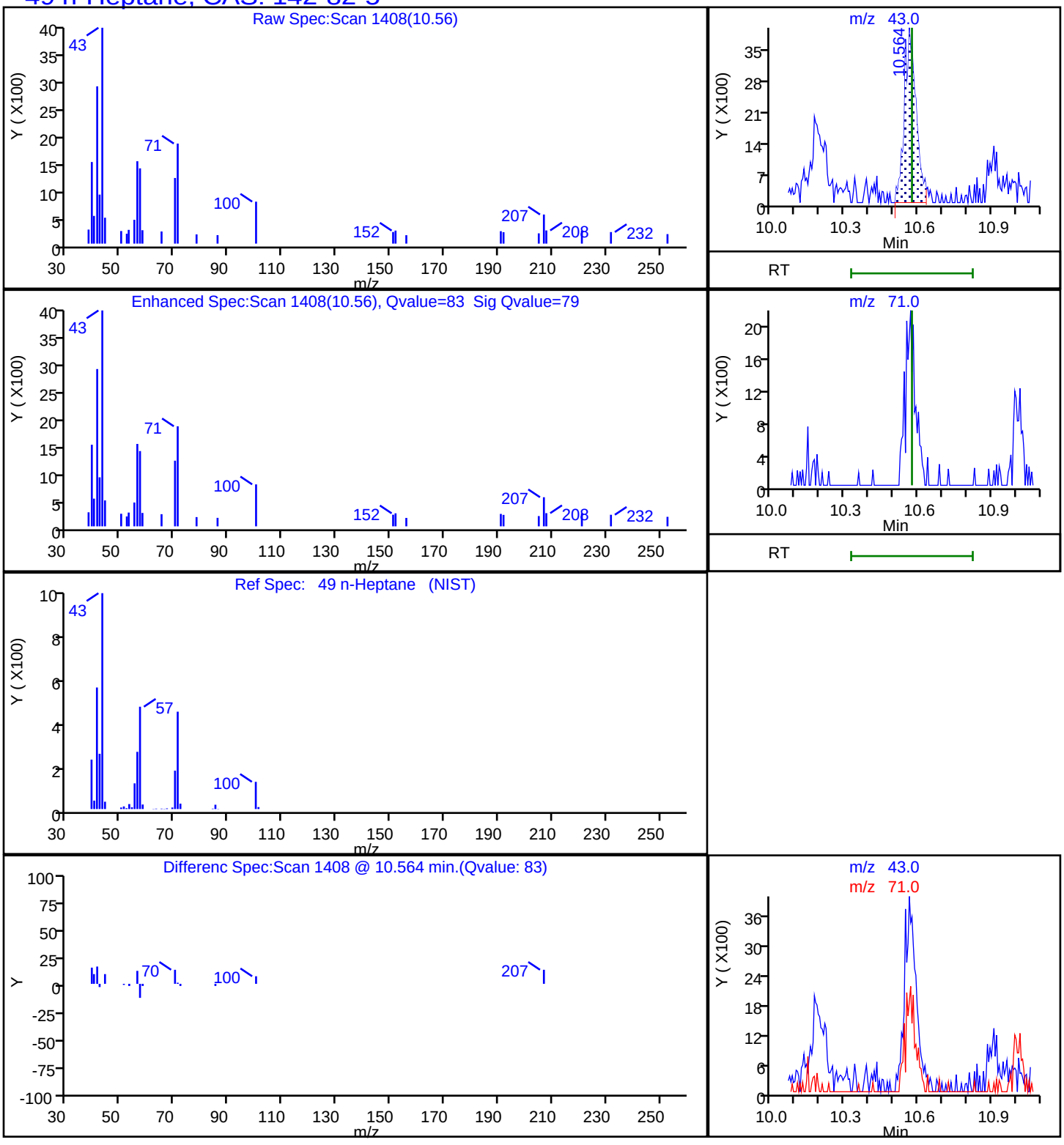
Report Date: 06-Dec-2018 16:30:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



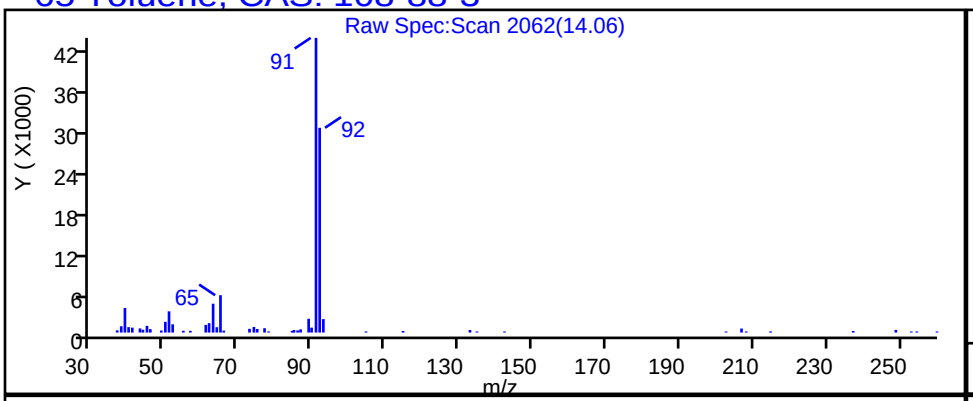
Report Date: 06-Dec-2018 16:30:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

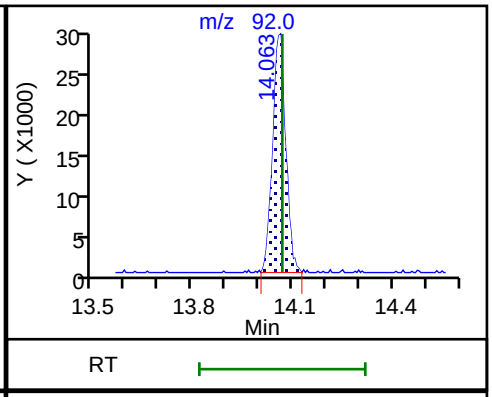
TestAmerica Burlington

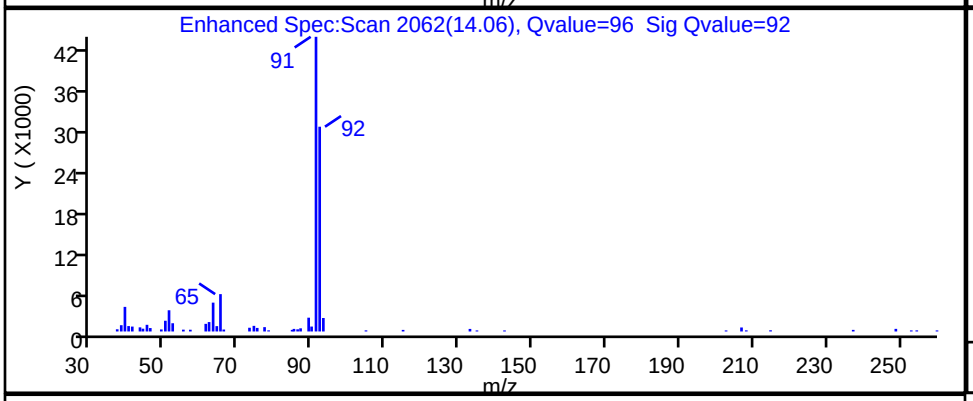
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

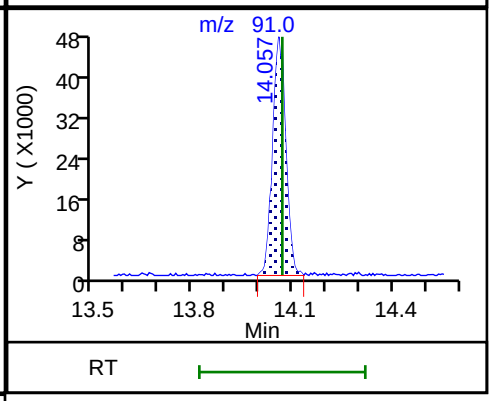
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

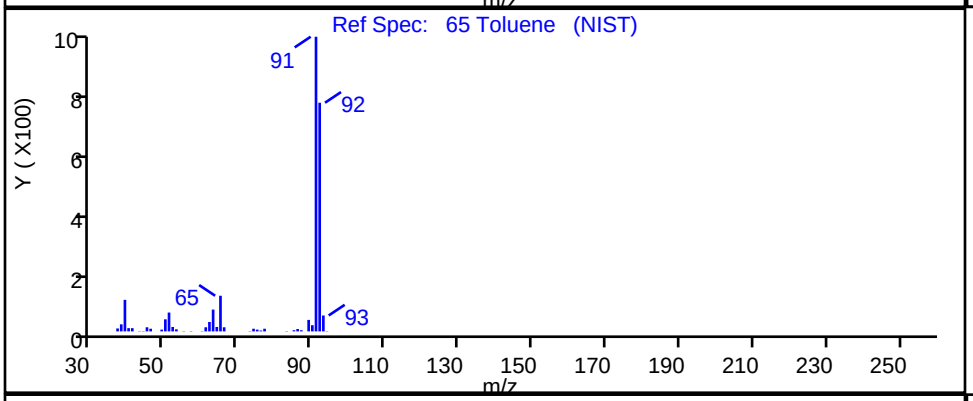
## 65 Toluene, CAS: 108-88-3

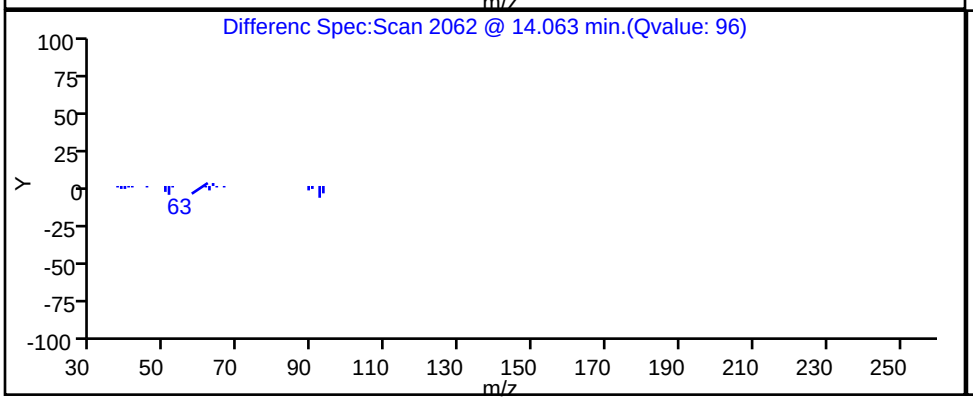


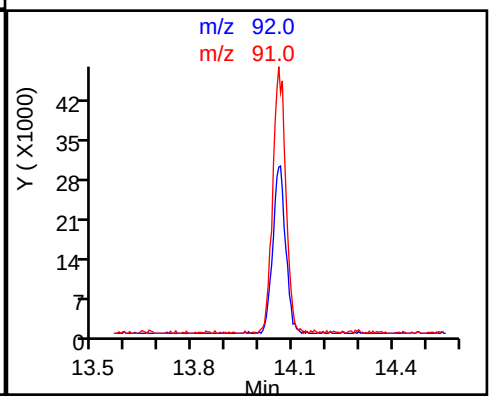



Manual Integration/User Assign Peak Report

TestAmerica Burlington

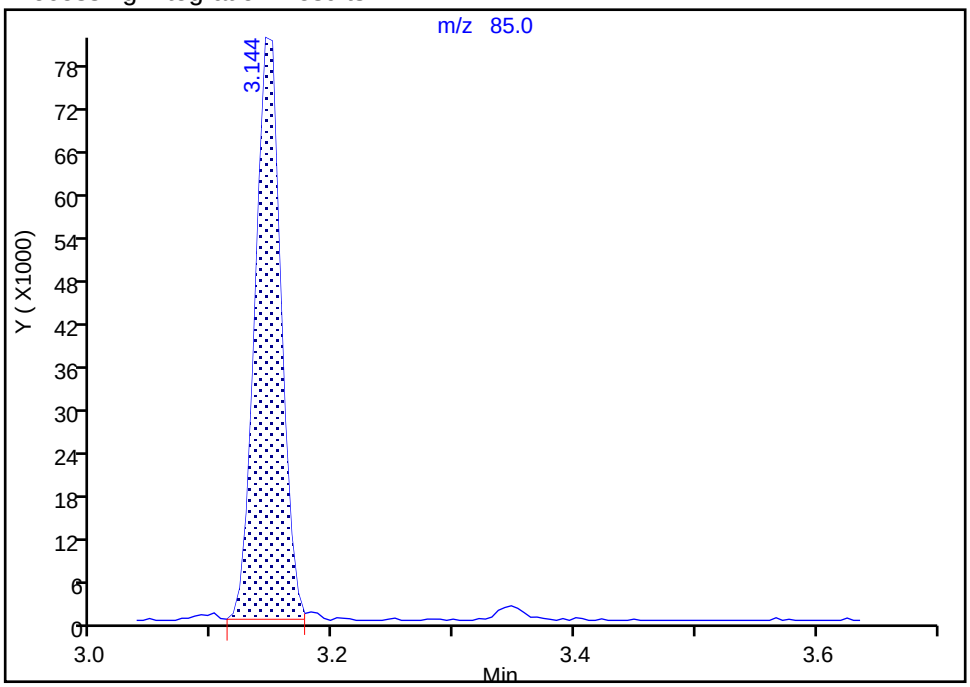
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

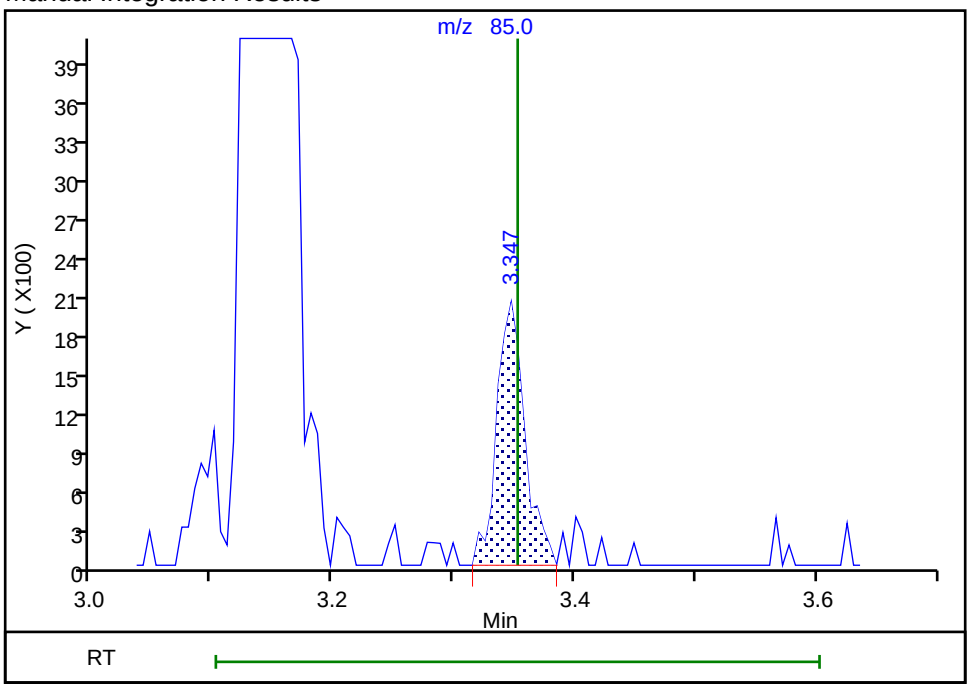
Processing Integration Results

RT: 3.14
Area: 121190
Amount: 0.766647
Amount Units: ppb v/v




Manual Integration Results

RT: 3.35
Area: 3289
Amount: 0.020806
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:23:51

Audit Action: Manually Integrated Audit Reason: Assign Peak

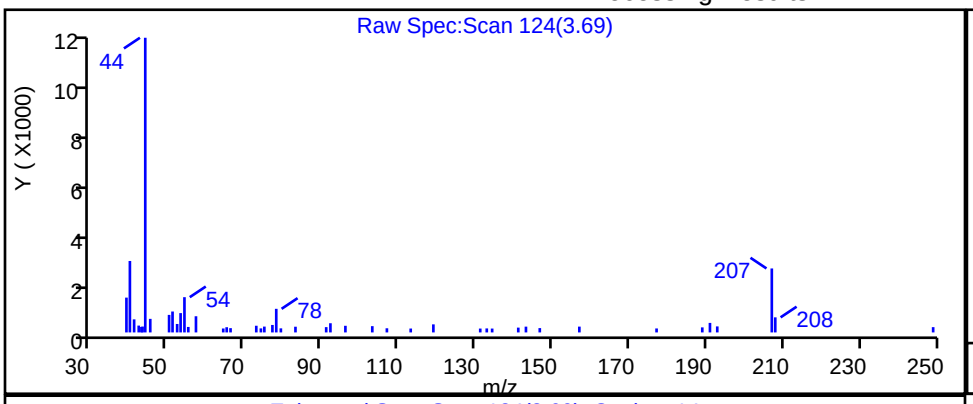
User Disabled Compound Report

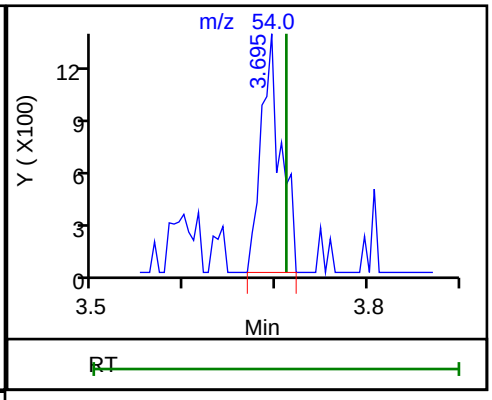
TestAmerica Burlington

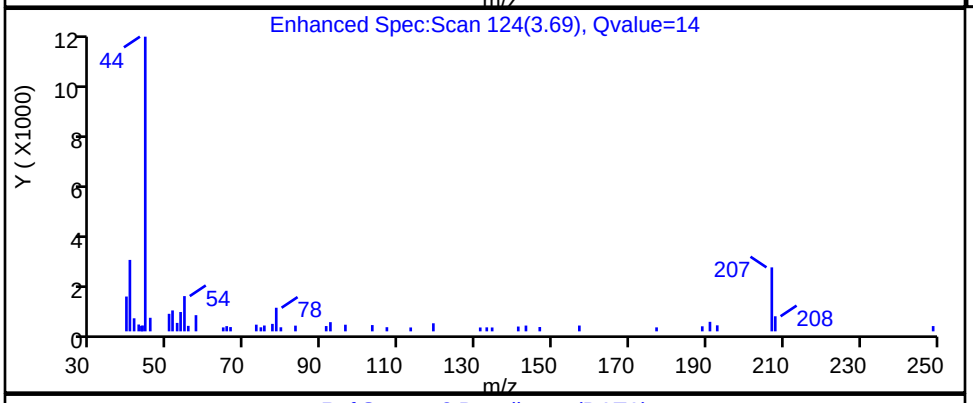
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

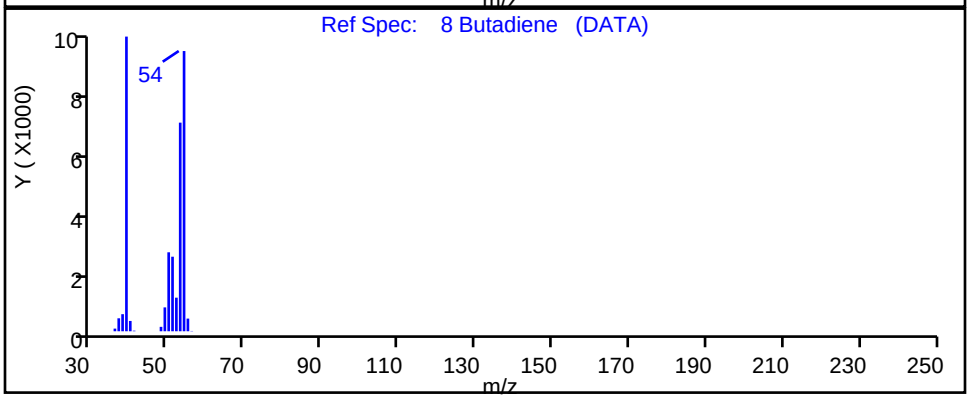
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.69 | 54.00 | 2050 | 0.066973 |

Reviewer: bunmaa, 06-Dec-2018 16:24:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

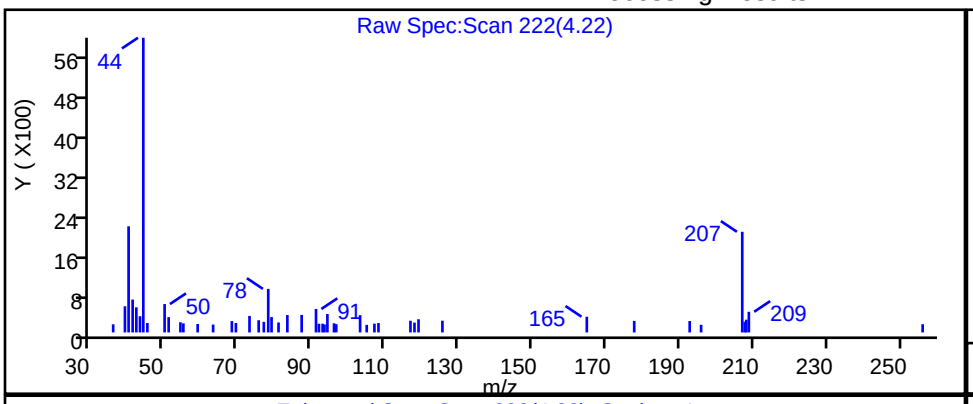
User Disabled Compound Report

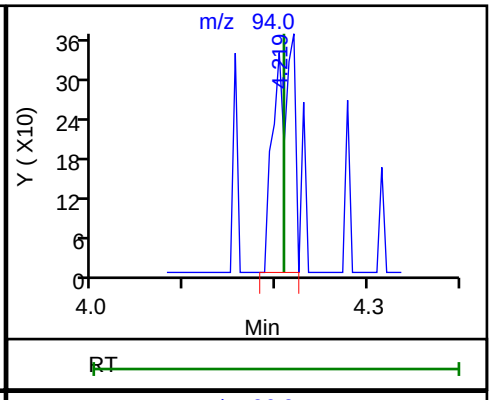
TestAmerica Burlington

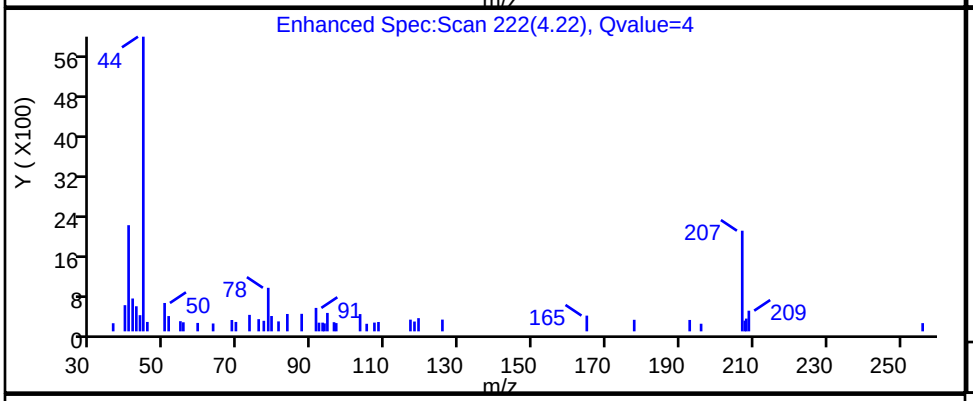
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

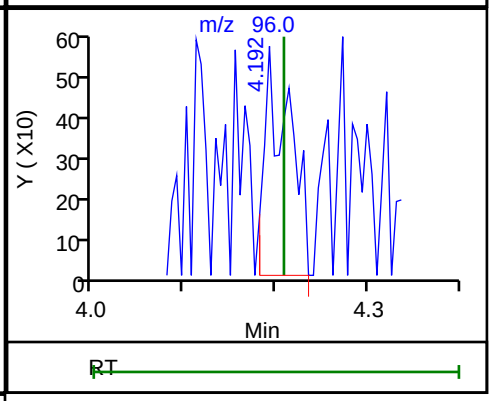
## 10 Bromomethane, CAS: 74-83-9

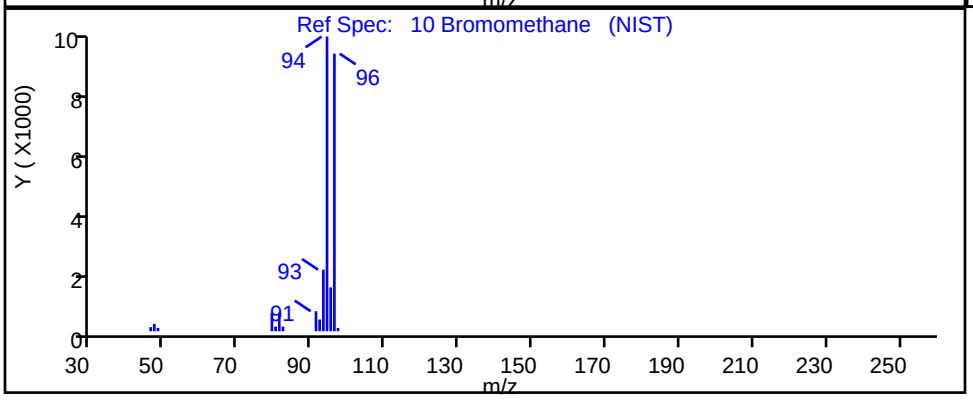
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.22 | 94.00 | 531 | 0.009348 |
| 4.19 | 96.00 | 1085 | |

Reviewer: bunmaa, 06-Dec-2018 16:24:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

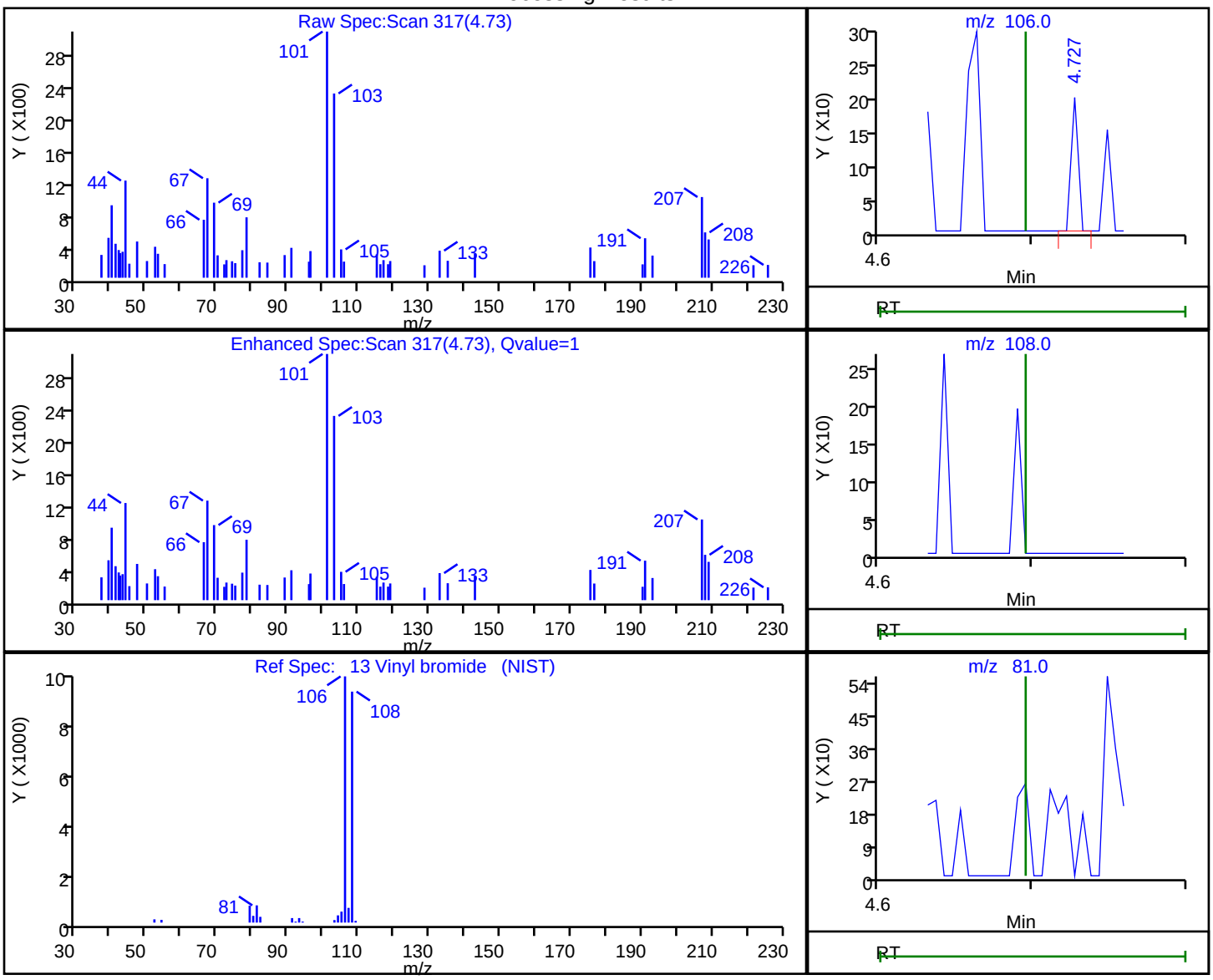
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.73 | 106.00 | 64 | 0.001140 |
| 4.70 | 108.00 | 0 | |
| 4.70 | 81.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:24:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

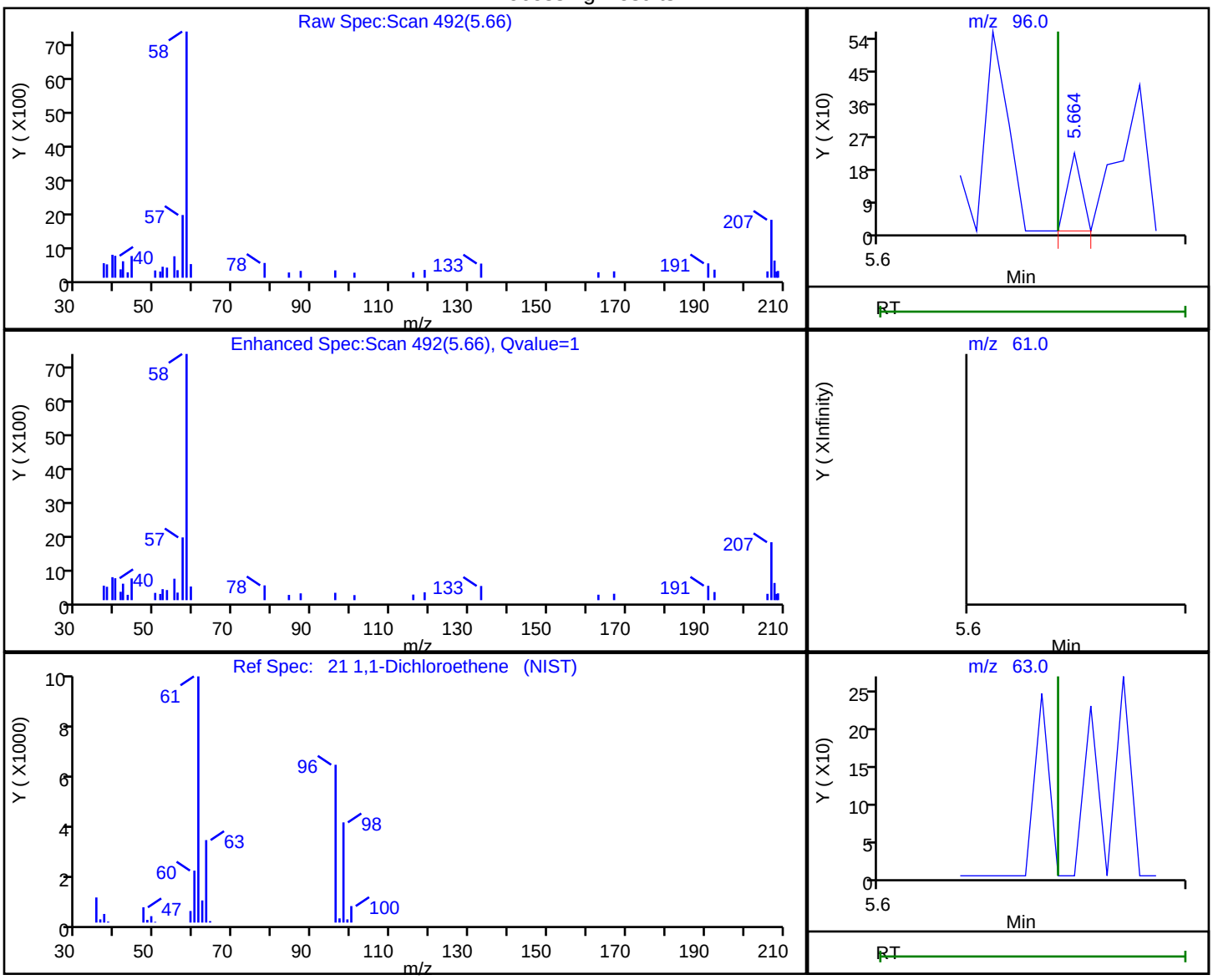
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.66 | 96.00 | 70 | 0.001360 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:24:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

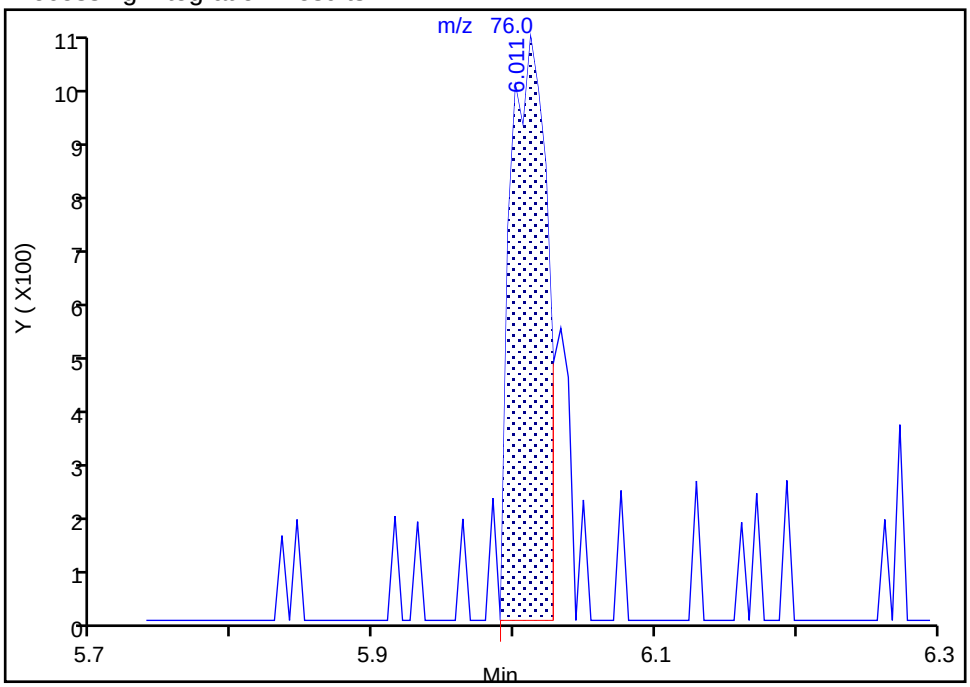
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 23 Carbon disulfide, CAS: 75-15-0

Signal: 1

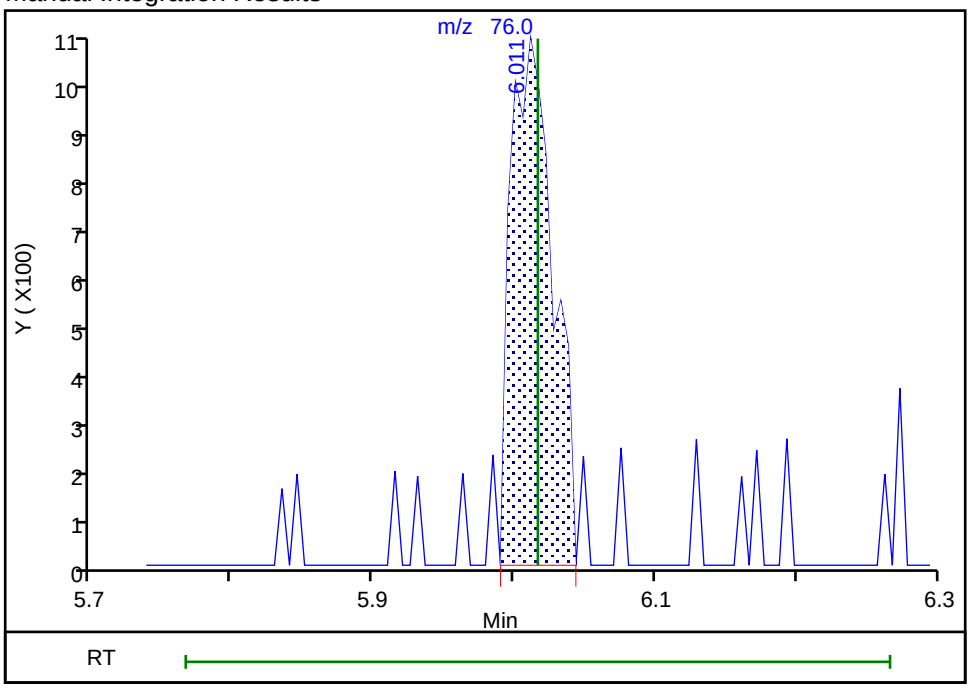
Processing Integration Results

RT: 6.01
Area: 1870
Amount: 0.014125
Amount Units: ppb v/v




Manual Integration Results

RT: 6.01
Area: 2178
Amount: 0.016451
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:24:43

Audit Action: Manually Integrated Audit Reason: Assign Peak

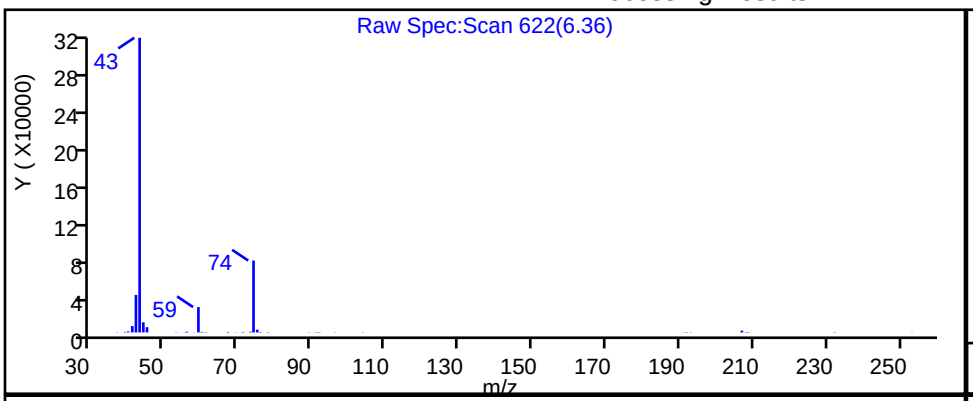
User Disabled Compound Report

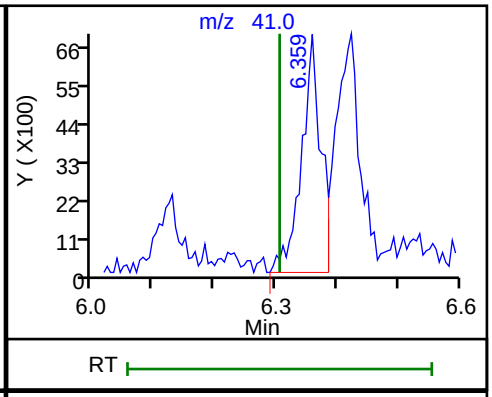
TestAmerica Burlington

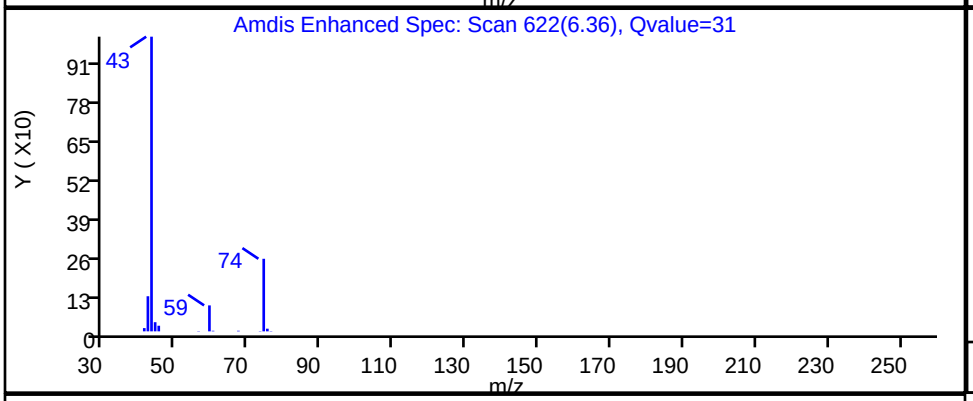
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

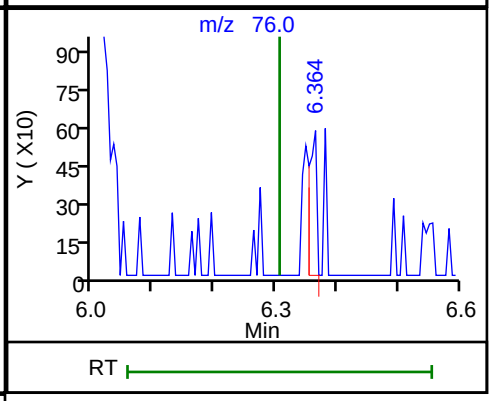
## 25 3-Chloro-1-propene, CAS: 107-05-1

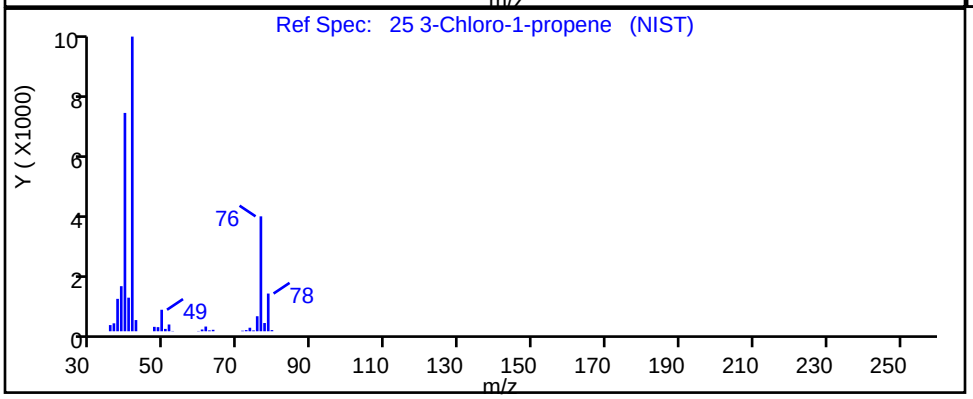
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.36 | 41.00 | 15170 | 0.396169 |
| 6.36 | 76.00 | 478 | |

Reviewer: bunmaa, 06-Dec-2018 16:25:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

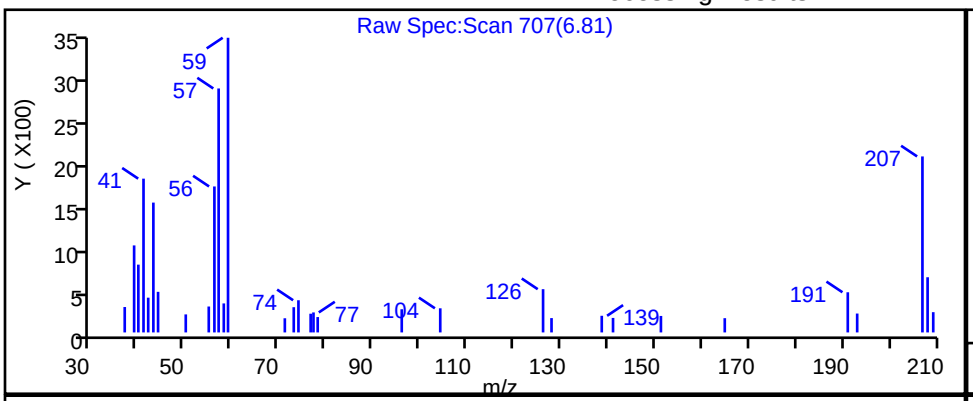
User Disabled Compound Report

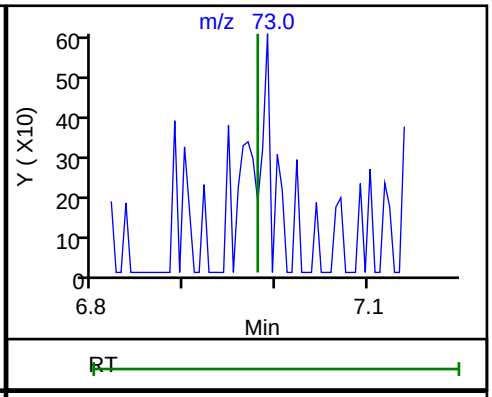
TestAmerica Burlington

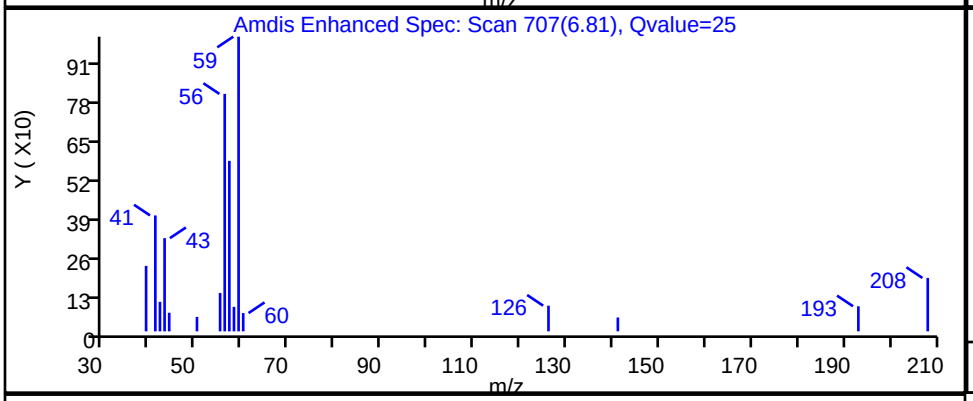
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

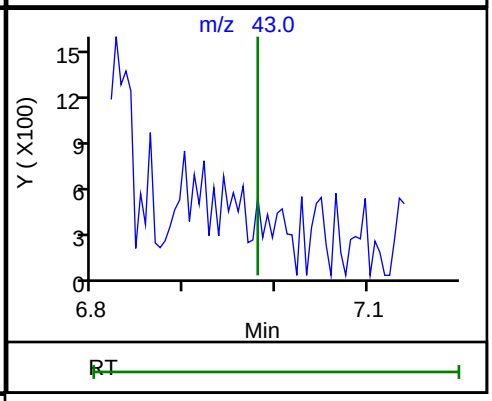
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

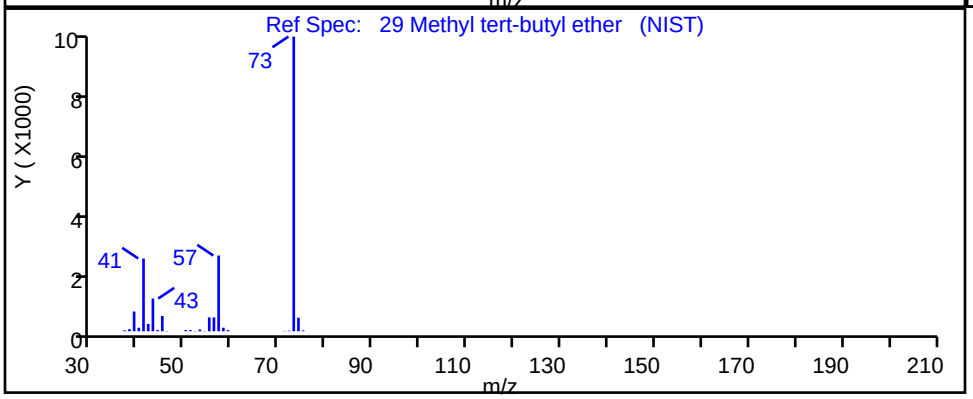
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.81 | 73.00 | 537 | 0.005367 |
| 6.98 | 43.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:25:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

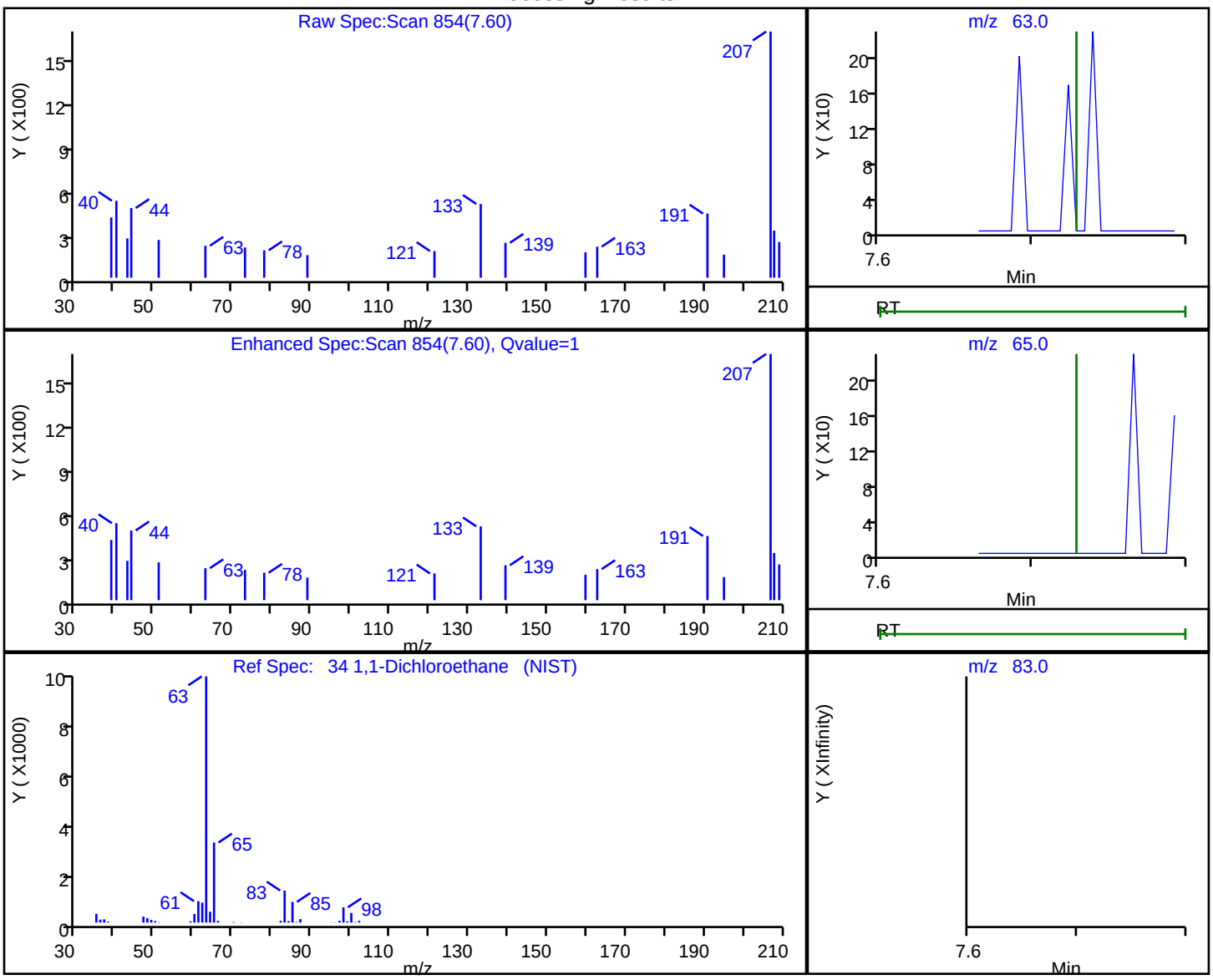
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.60 | 63.00 | 68 | 0.000845 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:25:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

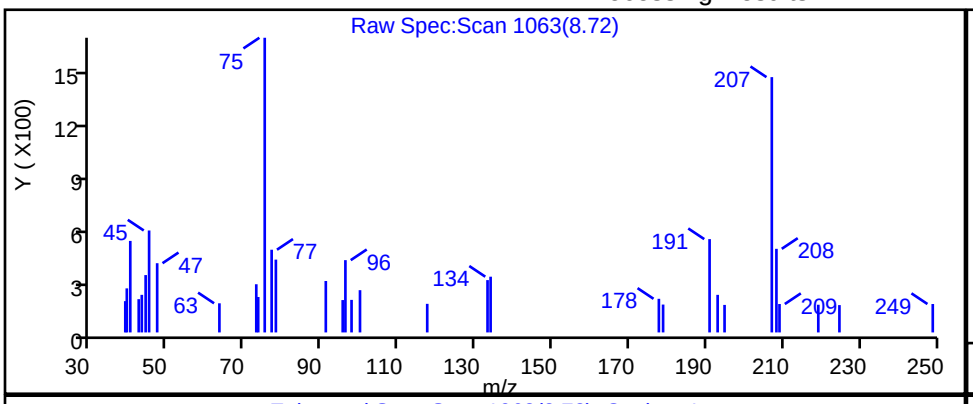
User Disabled Compound Report

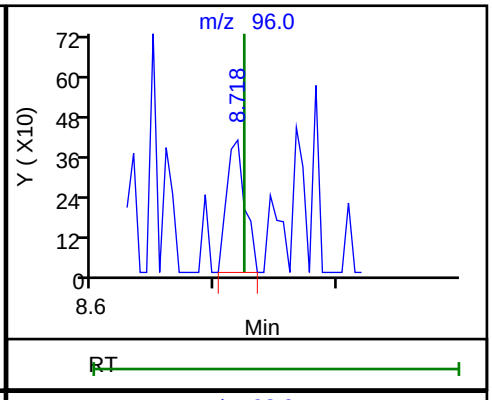
TestAmerica Burlington

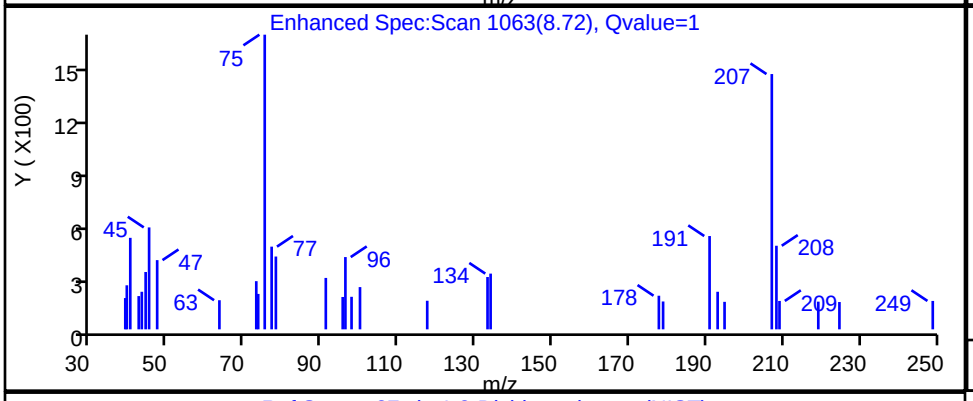
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

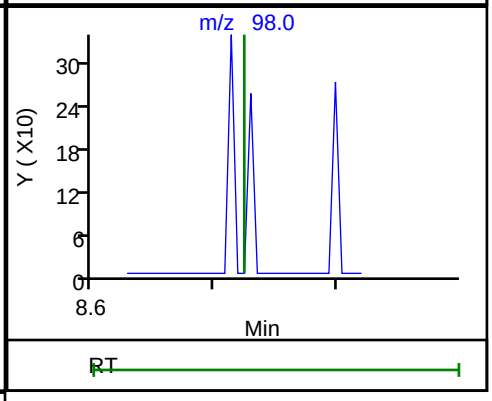
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

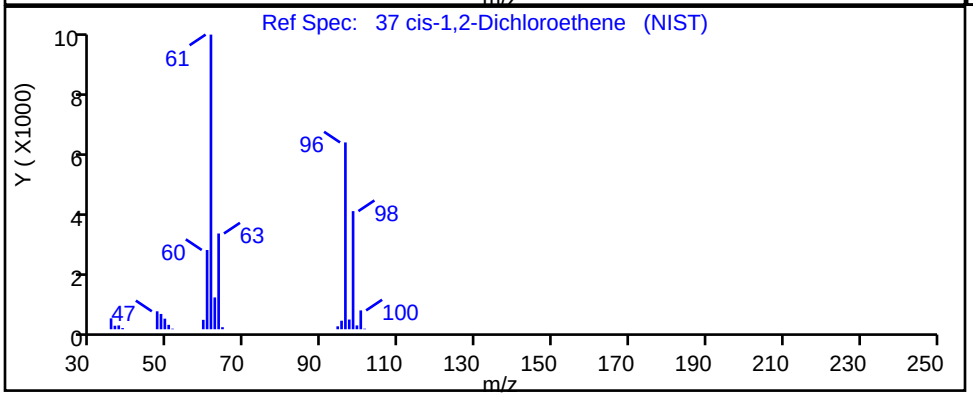
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.72 | 96.00 | 422 | 0.008655 |
| 8.72 | 98.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:25:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

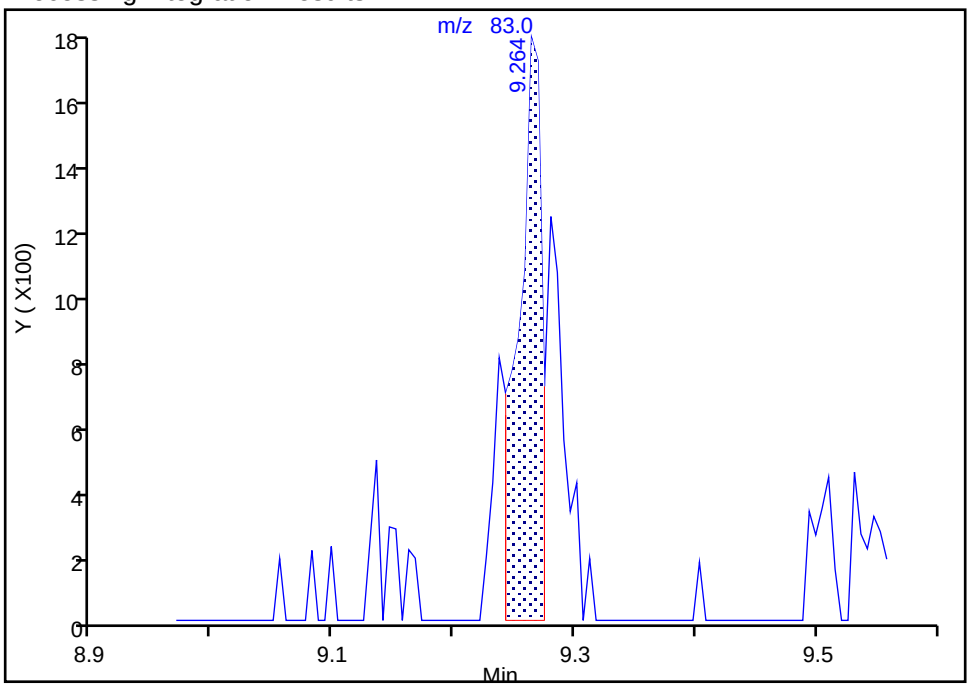
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

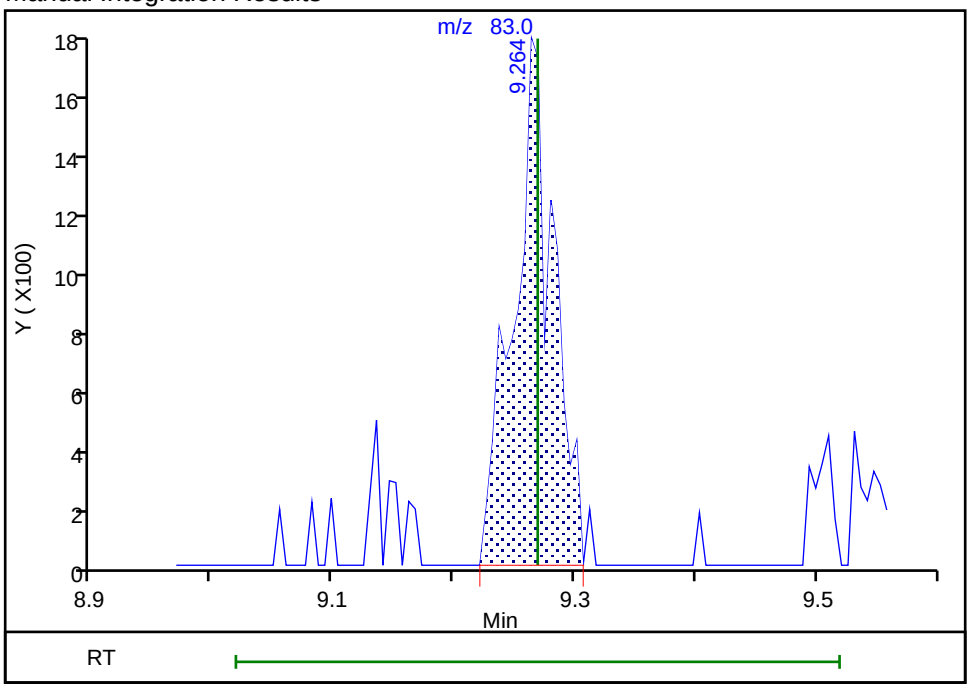
Processing Integration Results

RT: 9.26
Area: 2373
Amount: 0.020178
Amount Units: ppb v/v




Manual Integration Results

RT: 9.26
Area: 3942
Amount: 0.033519
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:25:43

Audit Action: Manually Integrated Audit Reason: Assign Peak

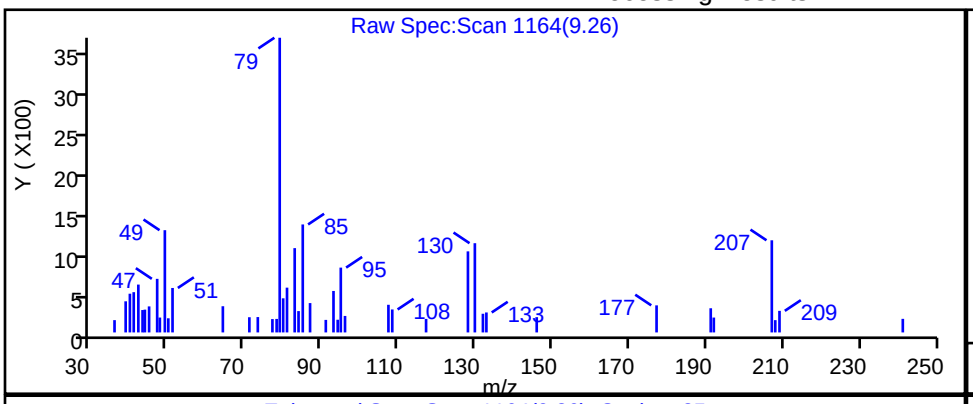
User Disabled Compound Report

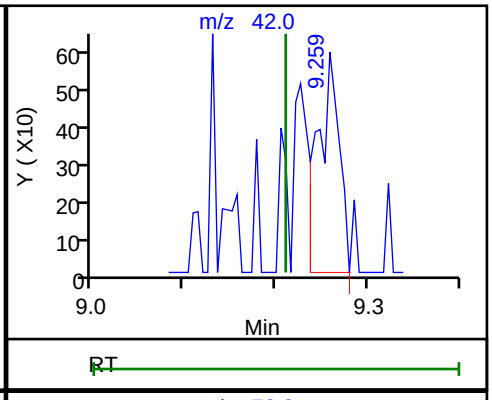
TestAmerica Burlington

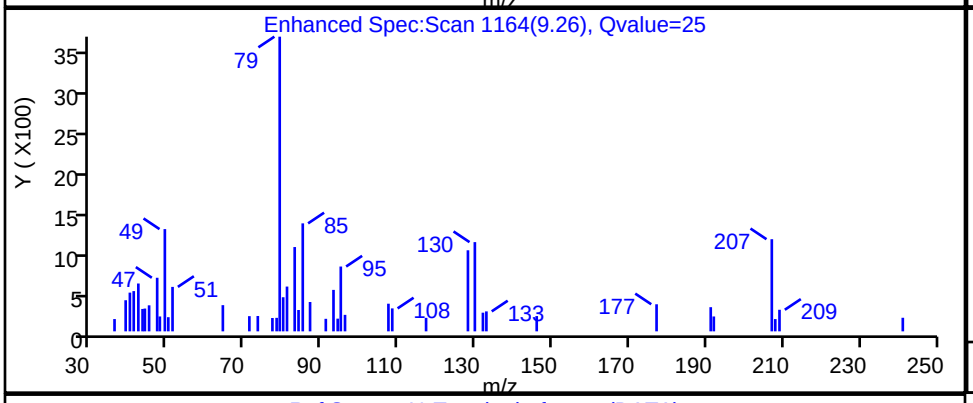
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

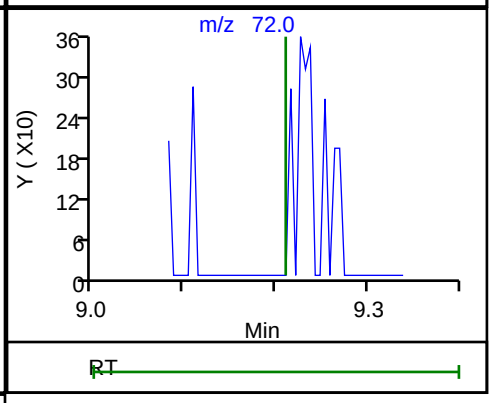
## 41 Tetrahydrofuran, CAS: 109-99-9

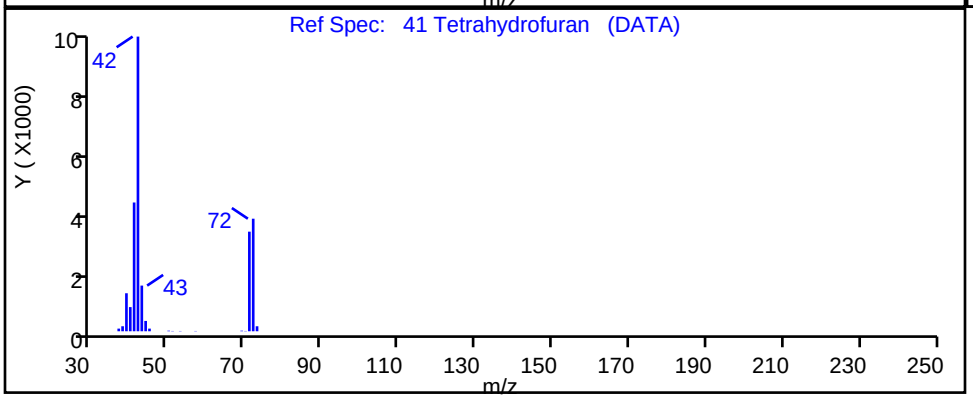
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.26 | 42.00 | 955 | 0.035825 |
| 9.21 | 72.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:25:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 06-Dec-2018 16:30:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

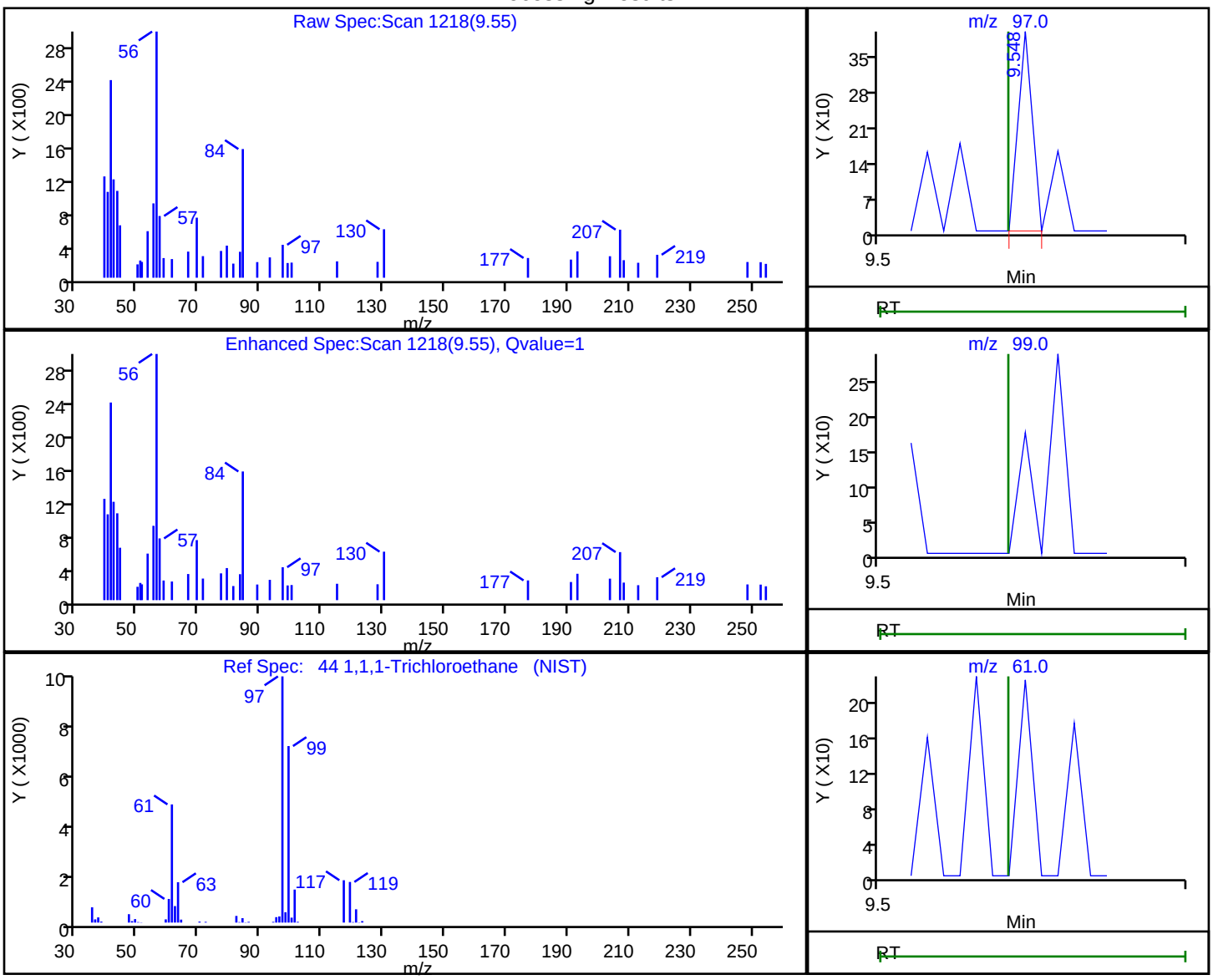
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.55 | 97.00 | 126 | 0.000970 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:26:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

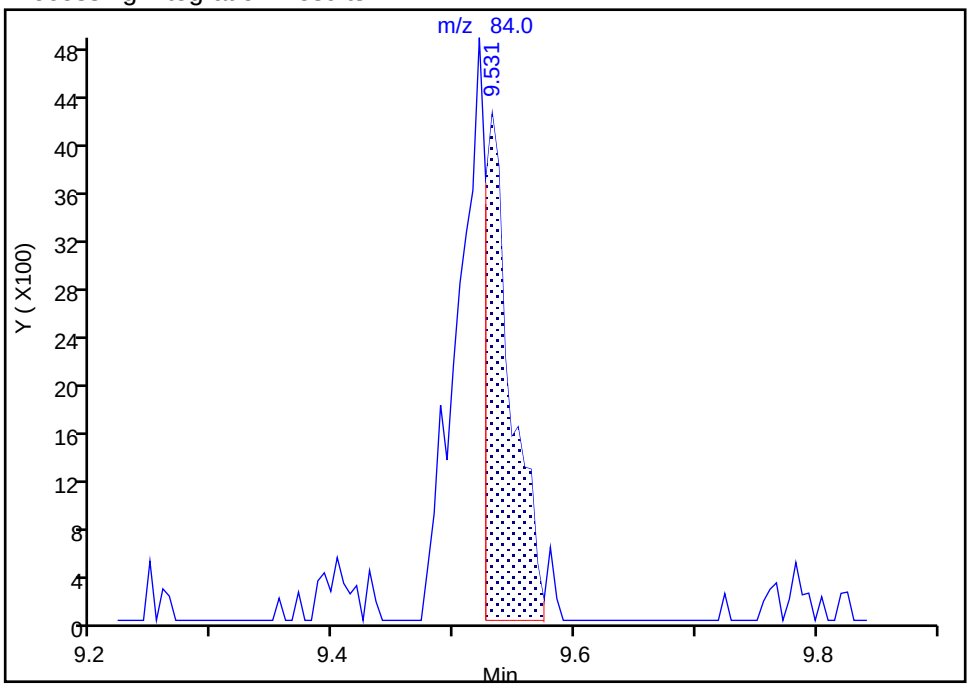
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

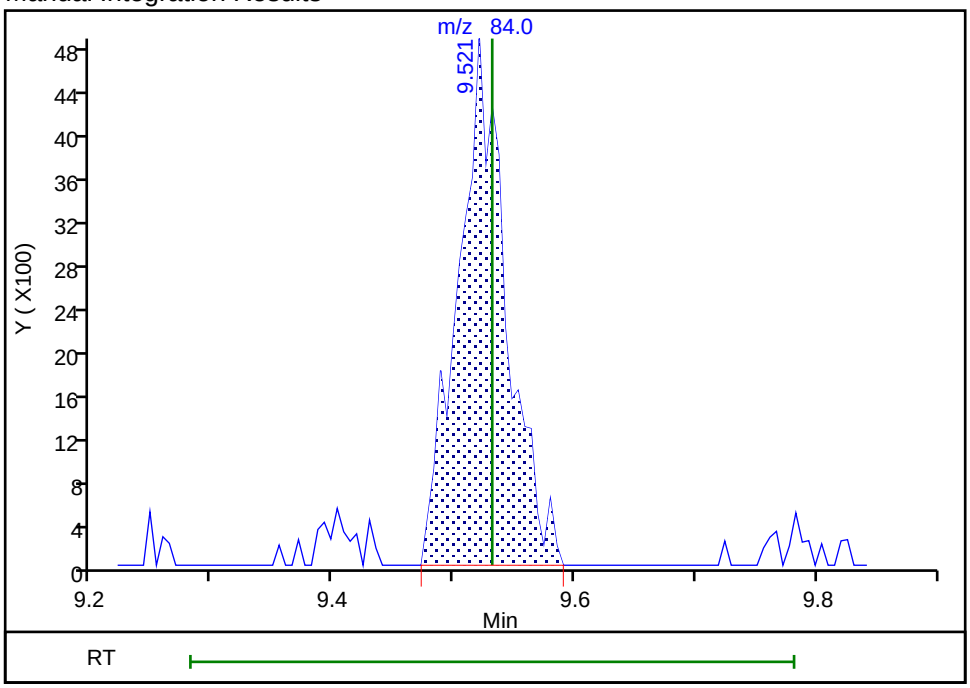
Processing Integration Results

RT: 9.53
Area: 6504
Amount: 0.121268
Amount Units: ppb v/v




Manual Integration Results

RT: 9.52
Area: 13553
Amount: 0.252698
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:26:02

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

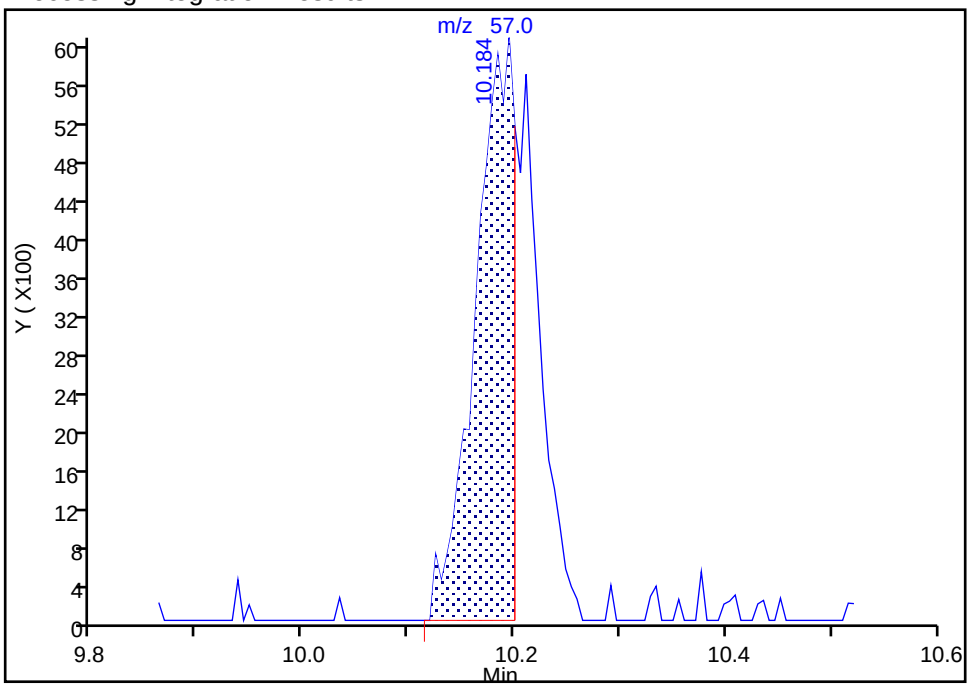
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1

Signal: 1

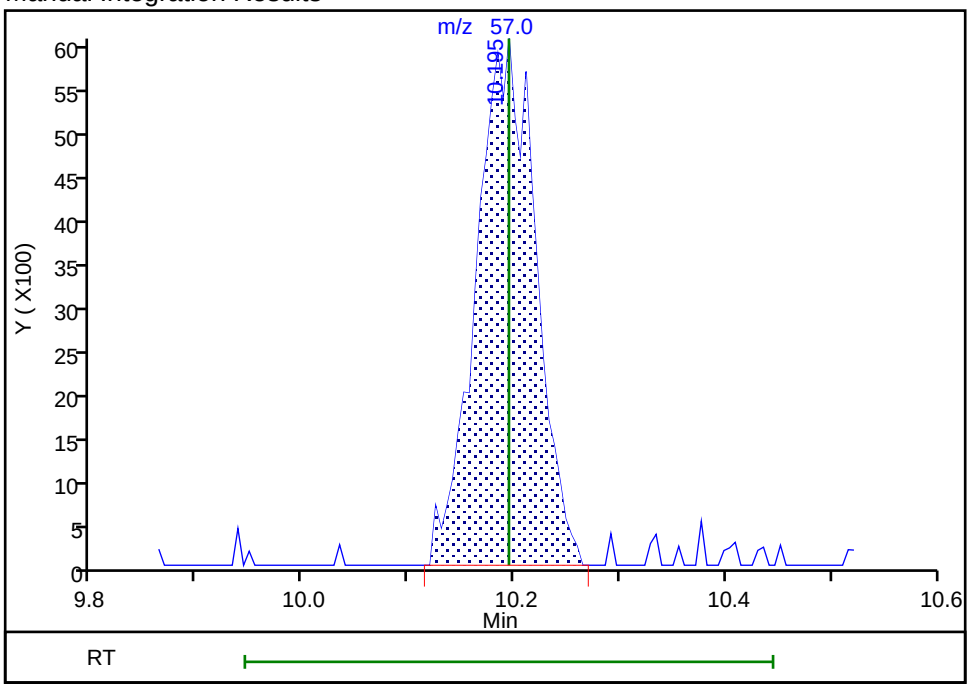
Processing Integration Results

RT: 10.18
Area: 15542
Amount: 0.087605
Amount Units: ppb v/v




Manual Integration Results

RT: 10.19
Area: 23819
Amount: 0.134259
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:26:31

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

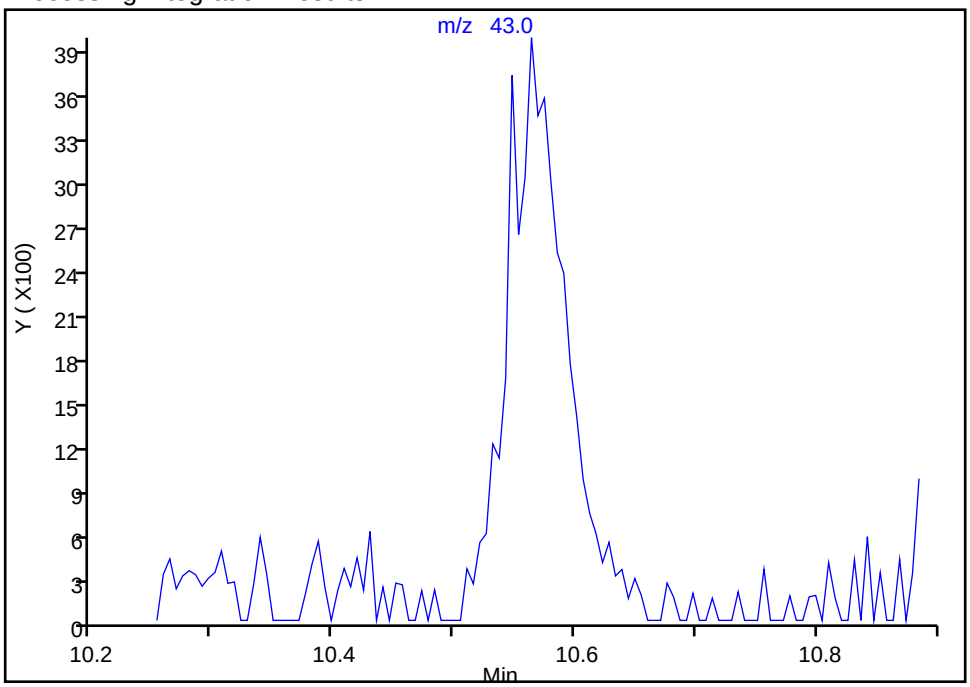
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5

Signal: 1

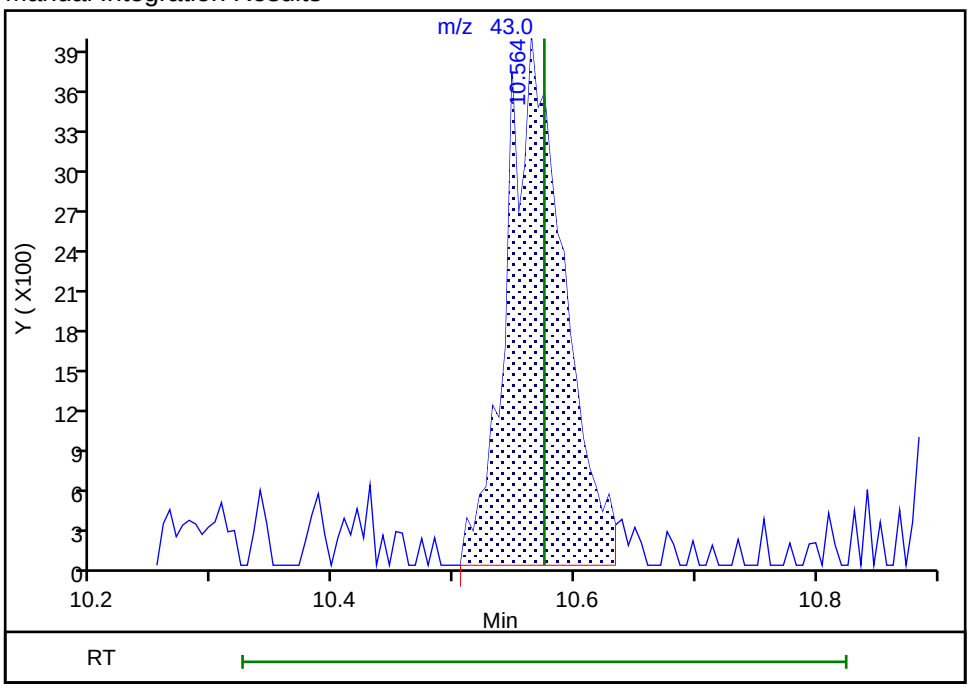
Not Detected
Expected RT: 10.57

Processing Integration Results




Manual Integration Results

RT: 10.56
Area: 13096
Amount: 0.204563
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:27:10
Audit Action: Manually Integrated Audit Reason: Assign Peak

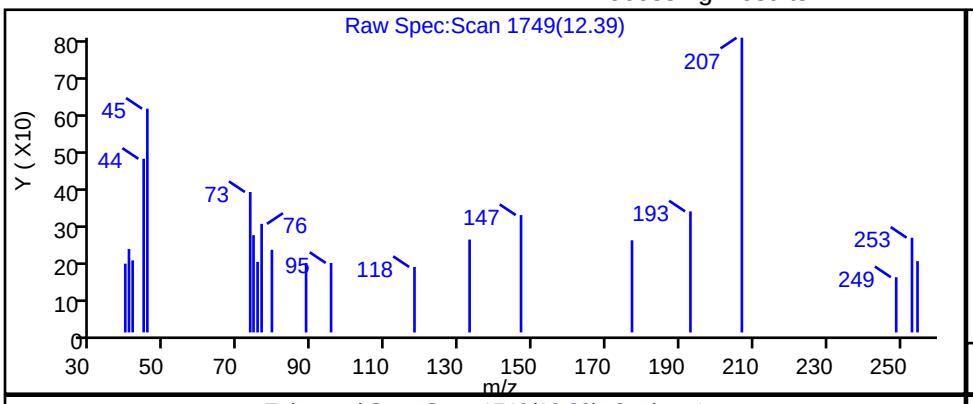
User Disabled Compound Report

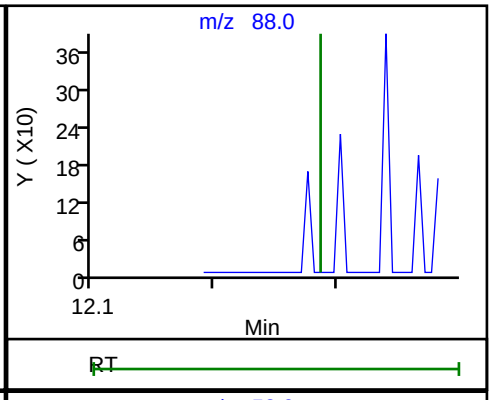
TestAmerica Burlington

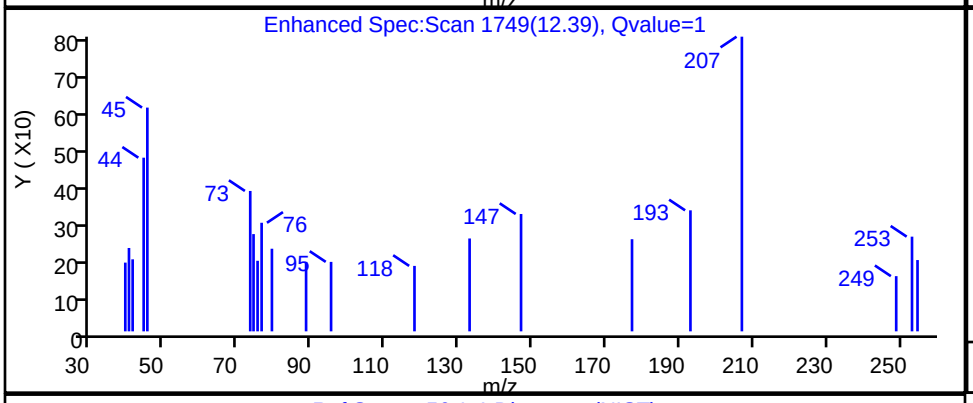
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

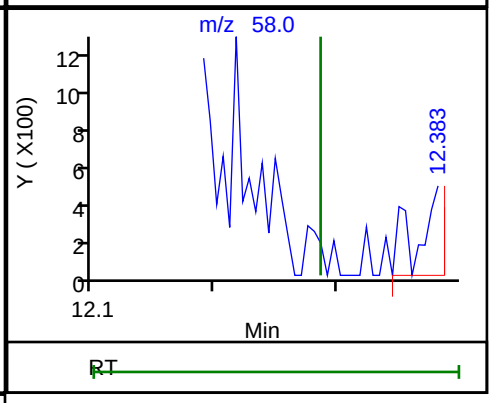
## 56 1,4-Dioxane, CAS: 123-91-1

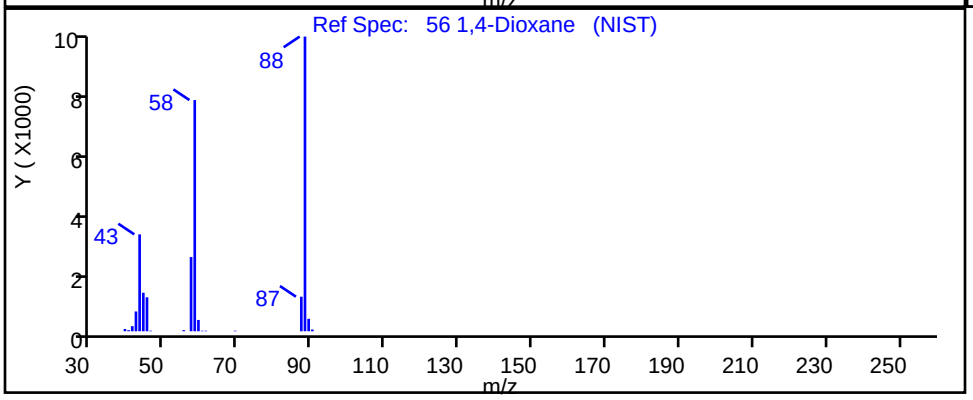
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.39 | 88.00 | 169 | 0.007389 |
| 12.38 | 58.00 | 610 | |

Reviewer: bunmaa, 06-Dec-2018 16:27:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

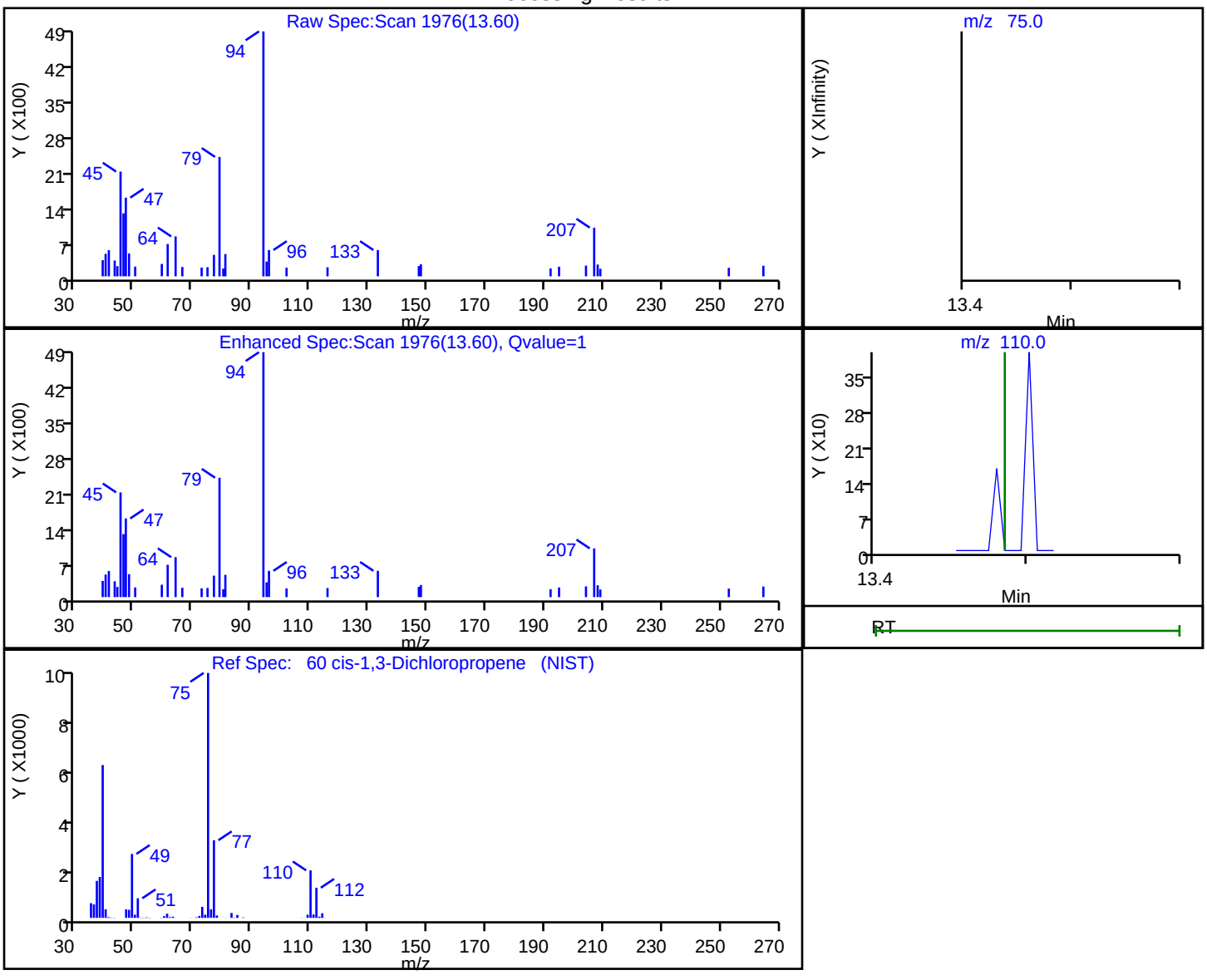
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.60 | 75.00 | 58 | 0.000741 |
| 13.48 | 110.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:27:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

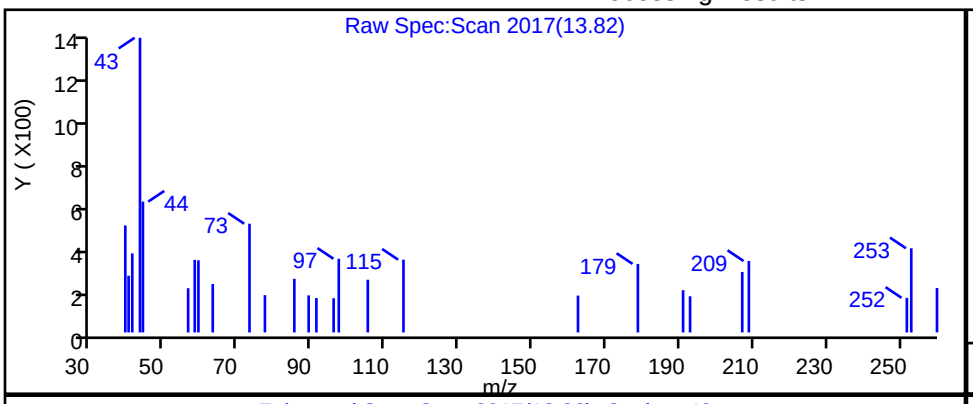
User Disabled Compound Report

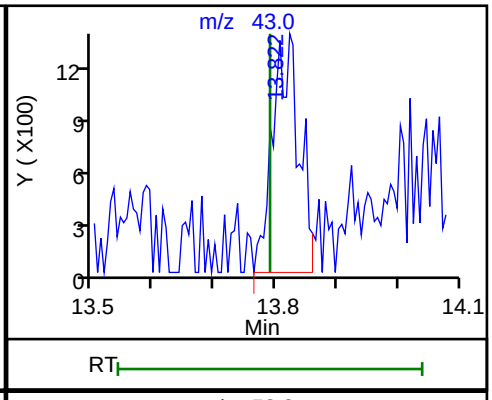
TestAmerica Burlington

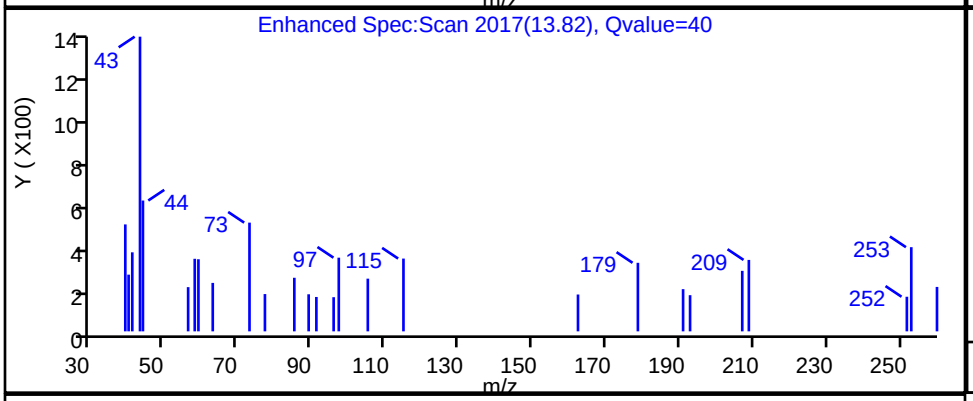
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

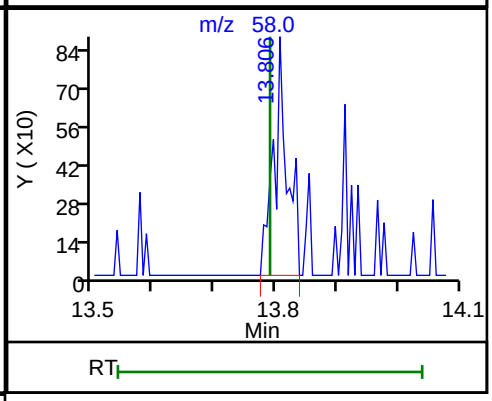
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

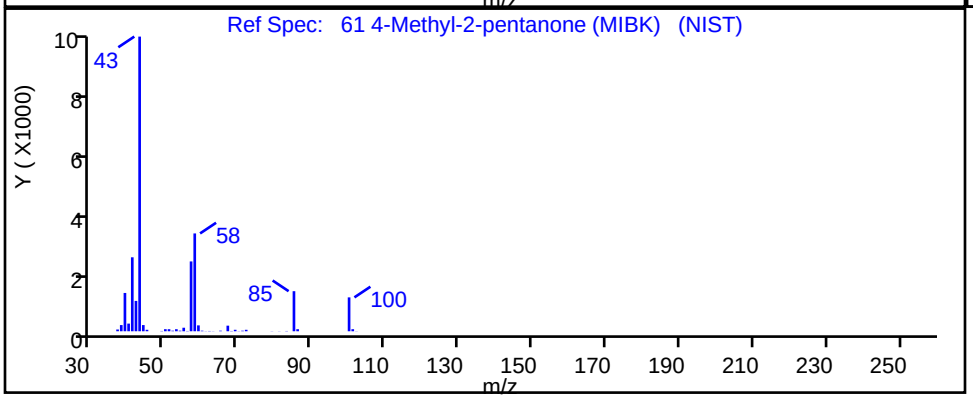
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.82 | 43.00 | 3951 | 0.048832 |
| 13.81 | 58.00 | 1363 | |

Reviewer: bunmaa, 06-Dec-2018 16:27:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

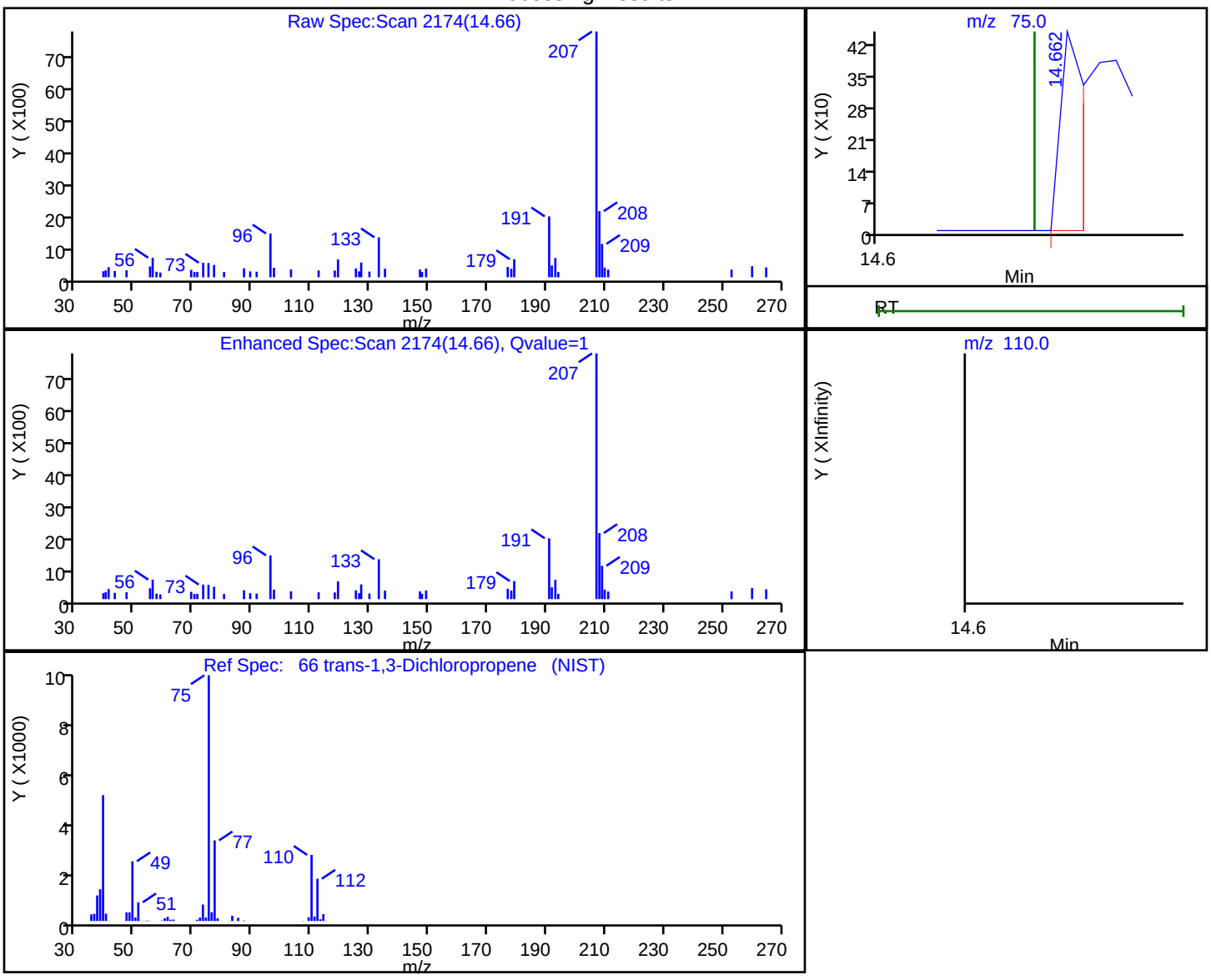
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.66 | 75.00 | 249 | 0.003234 |
| 14.65 | 110.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:27:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

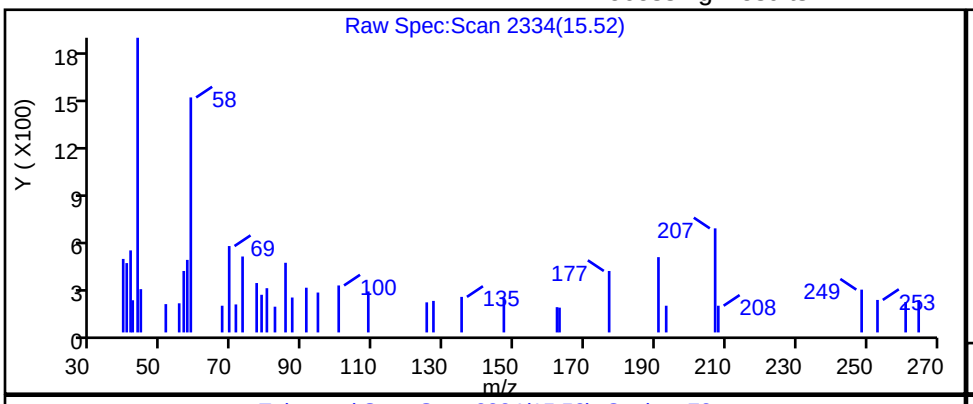
User Disabled Compound Report

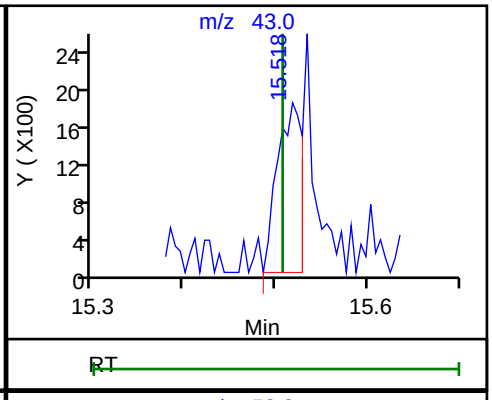
TestAmerica Burlington

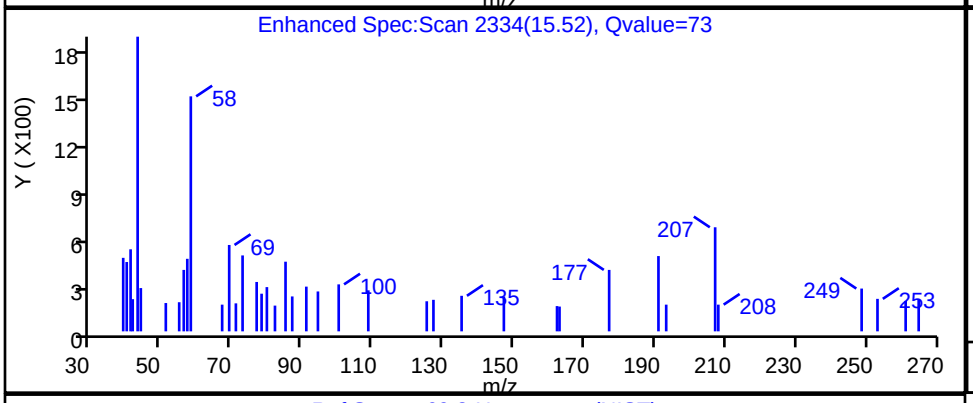
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

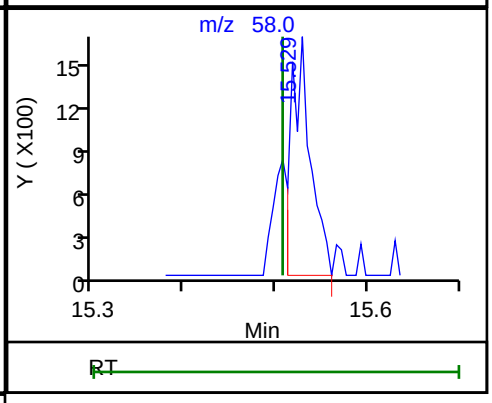
## 69 2-Hexanone, CAS: 591-78-6

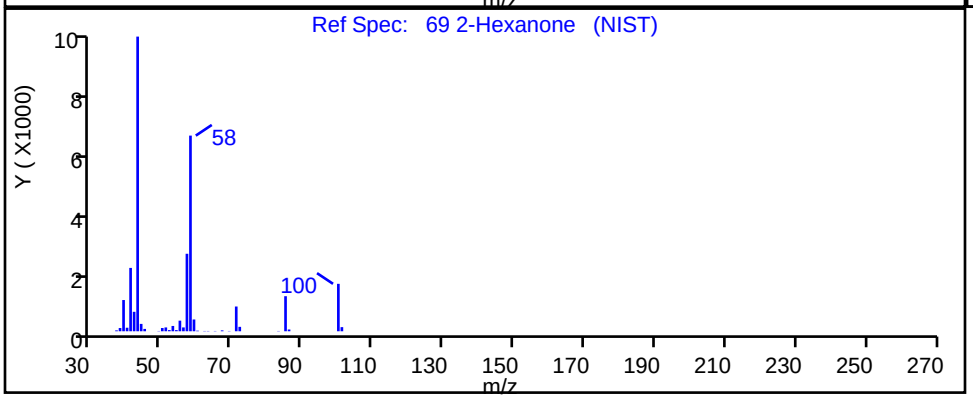
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.52 | 43.00 | 3380 | 0.038620 |
| 15.53 | 58.00 | 2361 | |

Reviewer: bunmaa, 06-Dec-2018 16:28:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

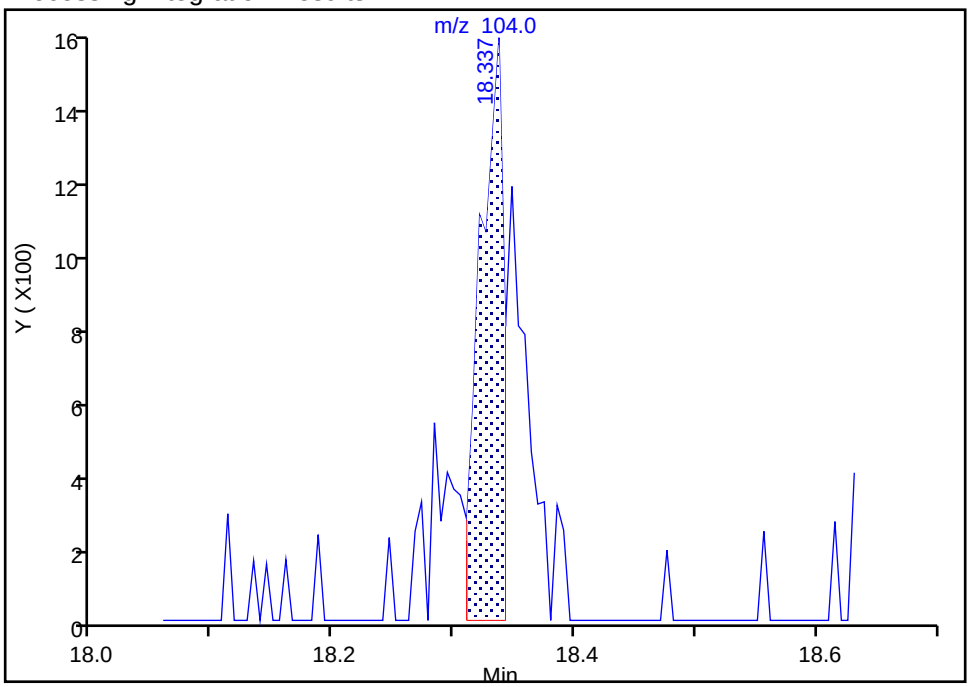
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Signal: 1

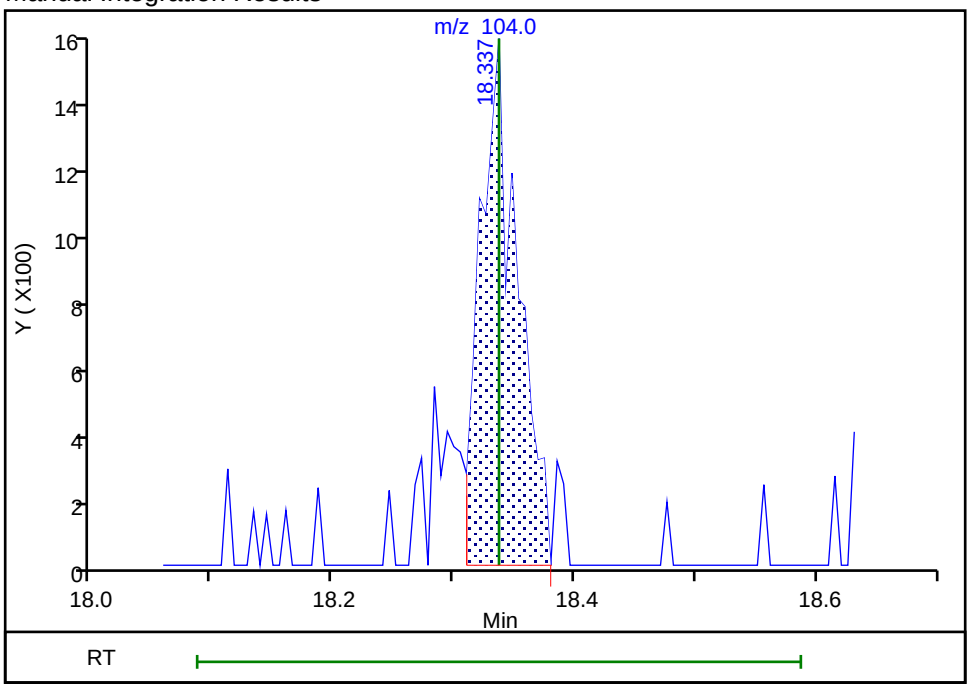
Processing Integration Results

RT: 18.34
Area: 2131
Amount: 0.016115
Amount Units: ppb v/v




Manual Integration Results

RT: 18.34
Area: 3351
Amount: 0.025341
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:28:44

Audit Action: Manually Integrated Audit Reason: Assign Peak

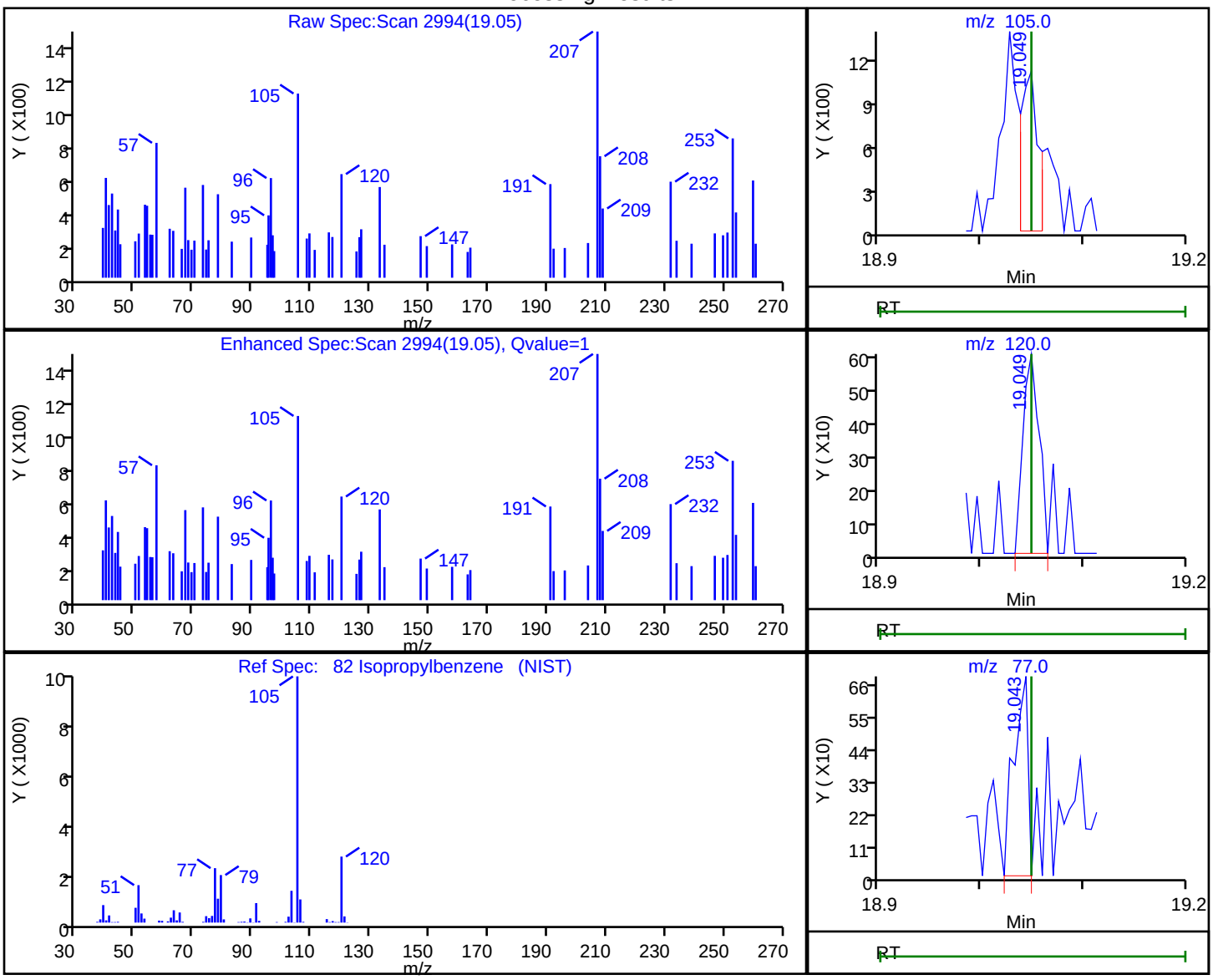
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.05 | 105.00 | 1261 | 0.004992 |
| 19.05 | 120.00 | 663 | |
| 19.04 | 77.00 | 655 | |

Reviewer: bunmaa, 06-Dec-2018 16:29:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

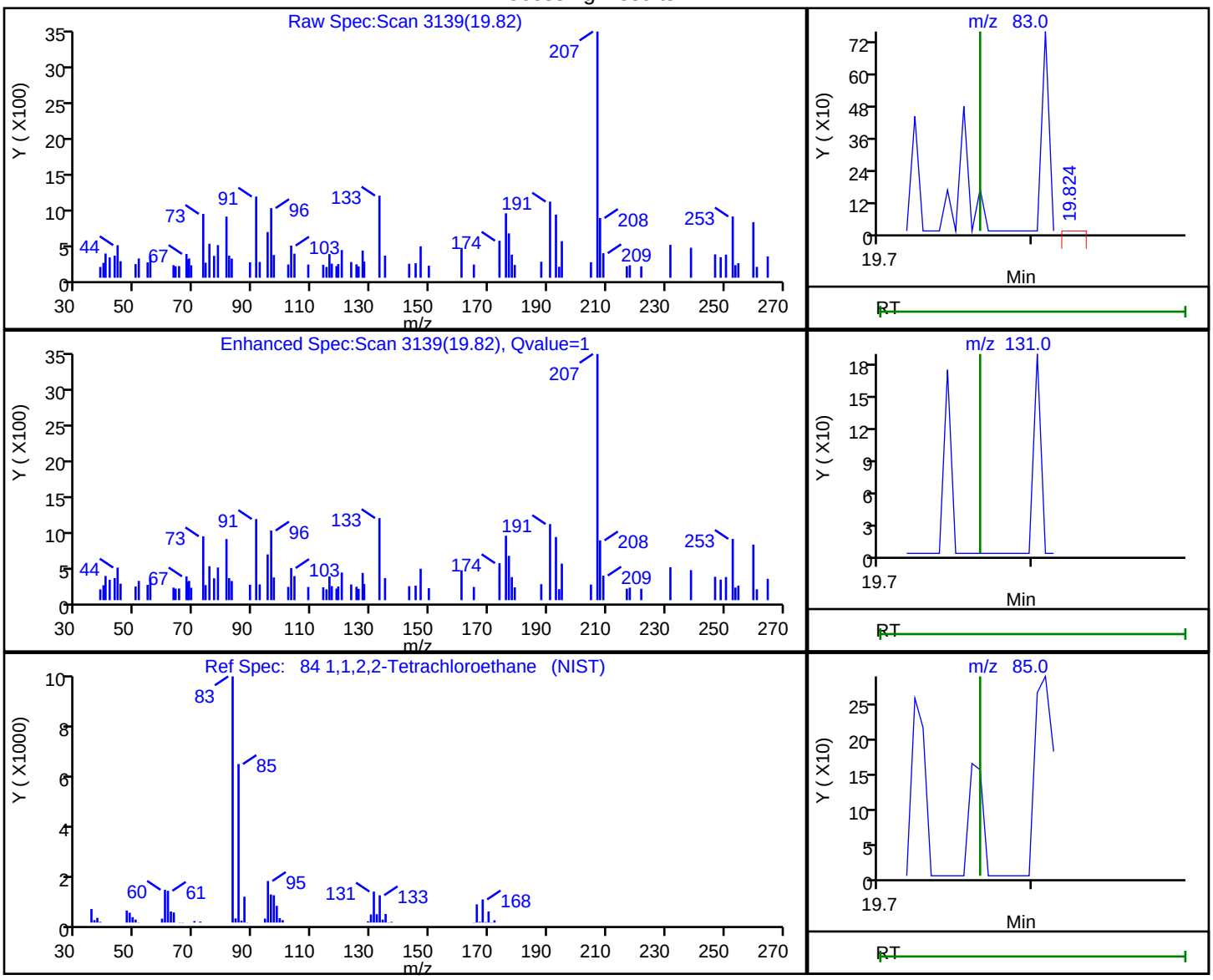
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.82 | 83.00 | 165 | 0.001197 |
| 19.77 | 131.00 | 0 | |
| 19.77 | 85.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:29:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

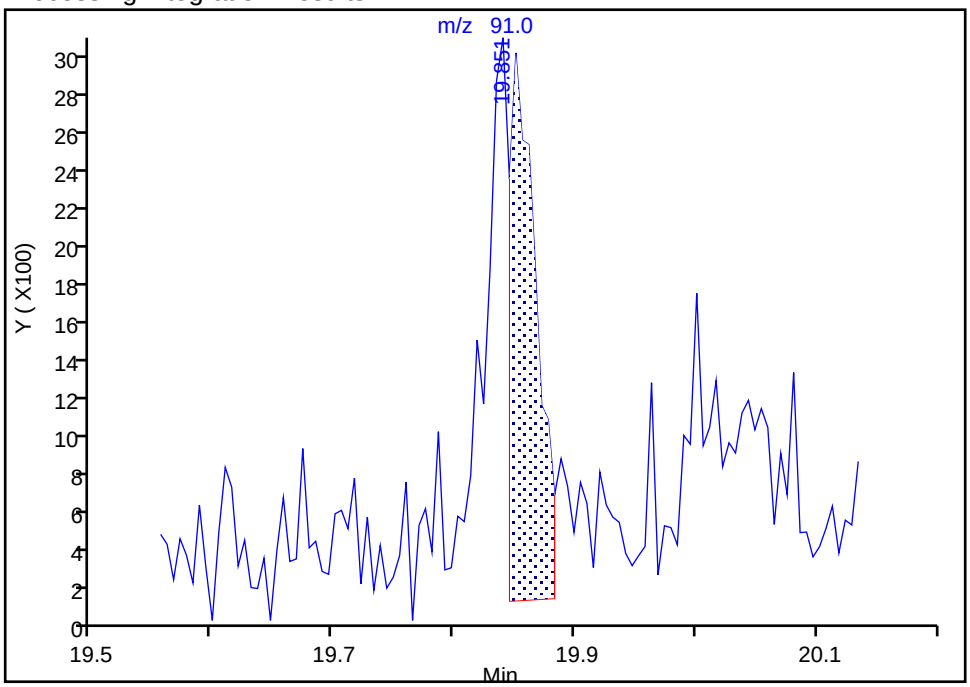
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

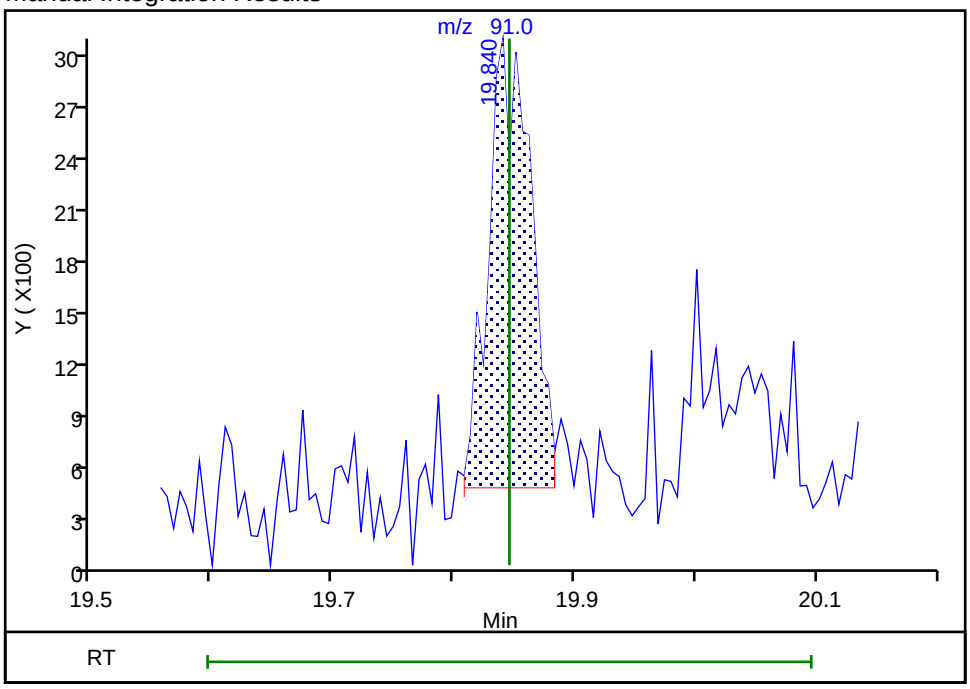
Processing Integration Results

RT: 19.85
Area: 4508
Amount: 0.014988
Amount Units: ppb v/v




Manual Integration Results

RT: 19.84
Area: 6336
Amount: 0.021066
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:29:27

Audit Action: Manually Integrated Audit Reason: Assign Peak

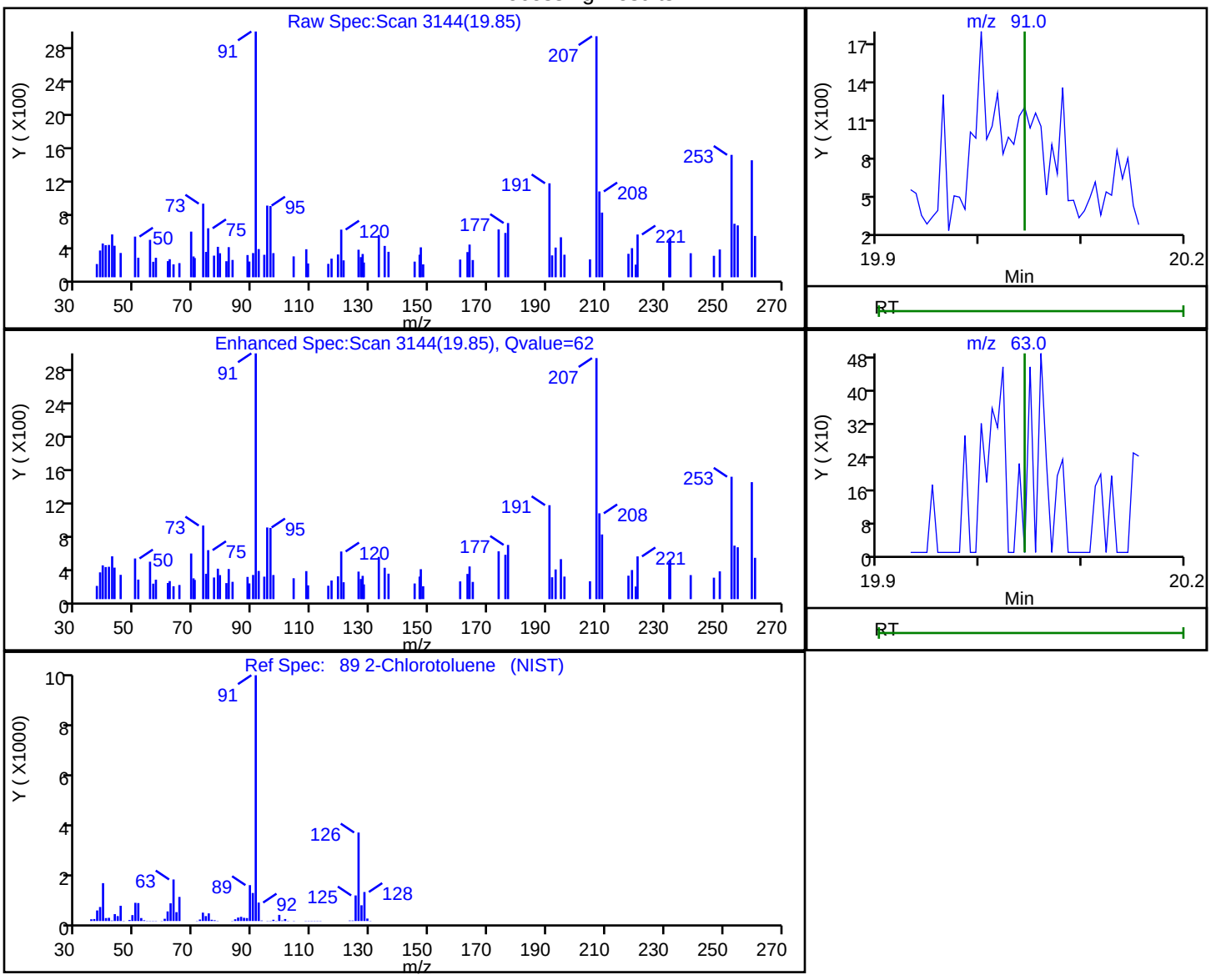
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.85 | 91.00 | 4507 | 0.019841 |
| 20.04 | 63.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:29:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

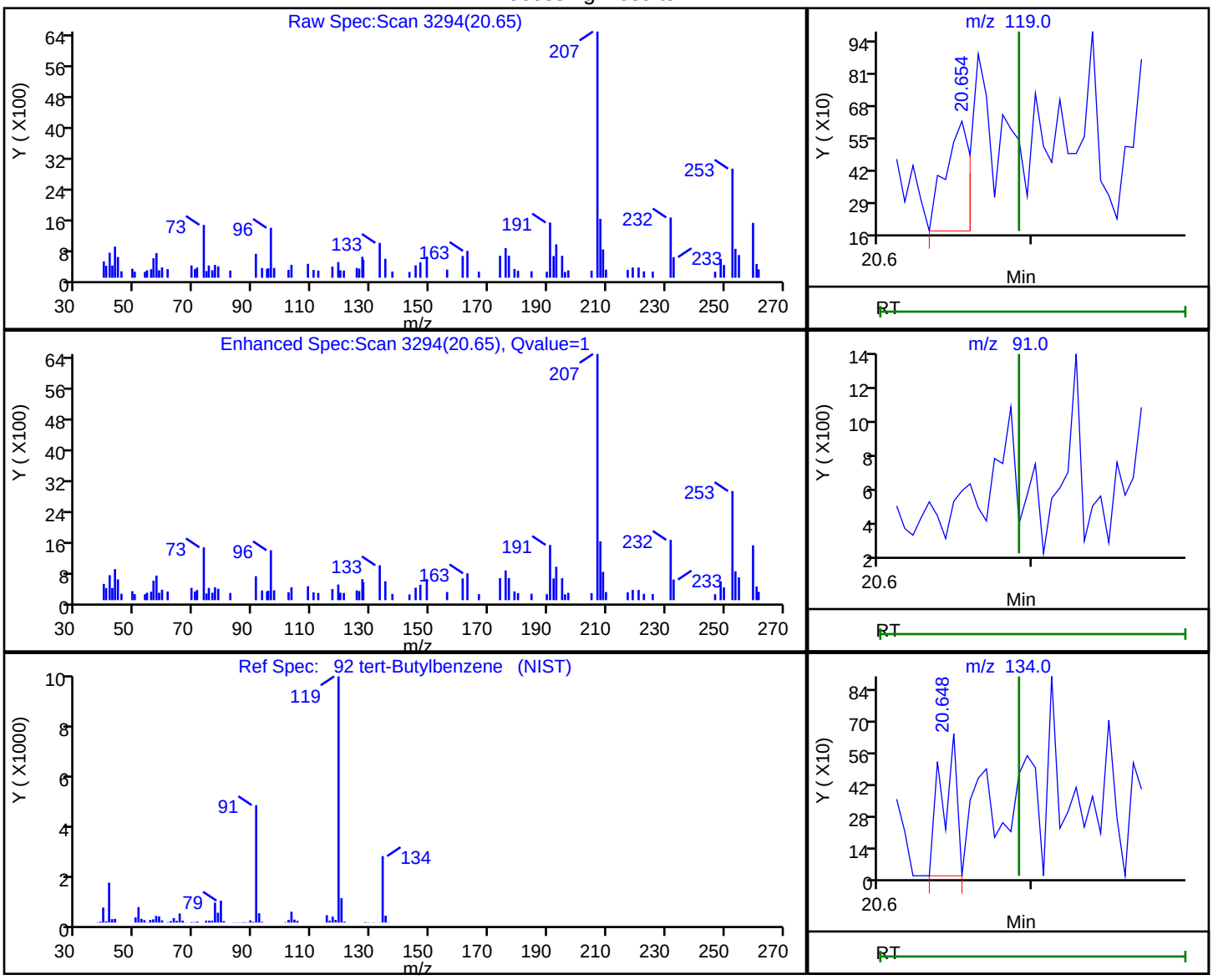
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.65 | 119.00 | 500 | 0.002440 |
| 20.65 | 134.00 | 435 | |
| 20.69 | 91.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:29:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

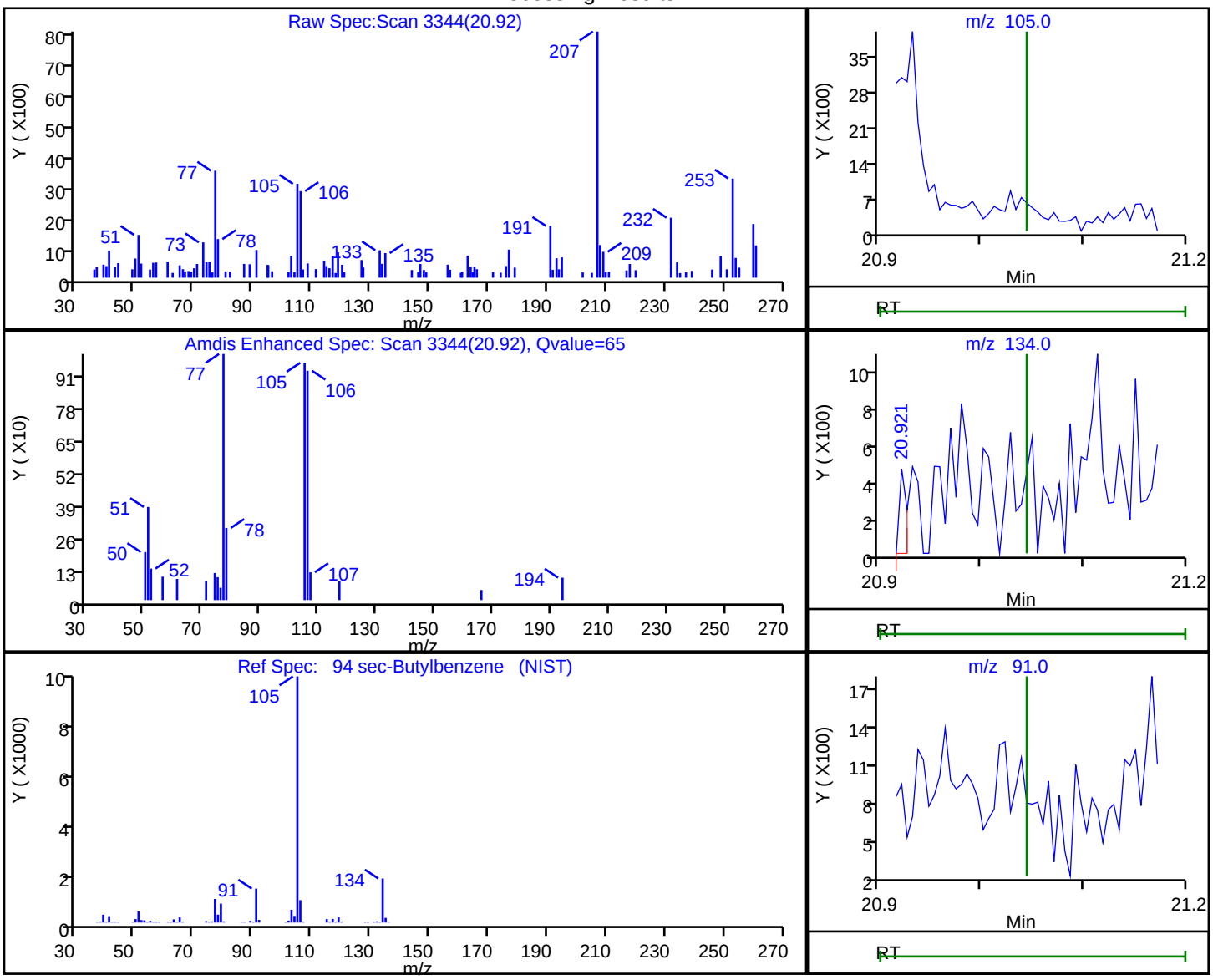
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 4755 | 0.015649 |
| 20.92 | 134.00 | 221 | |
| 20.89 | 91.00 | 391 | |

Reviewer: bunmaa, 06-Dec-2018 16:29:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

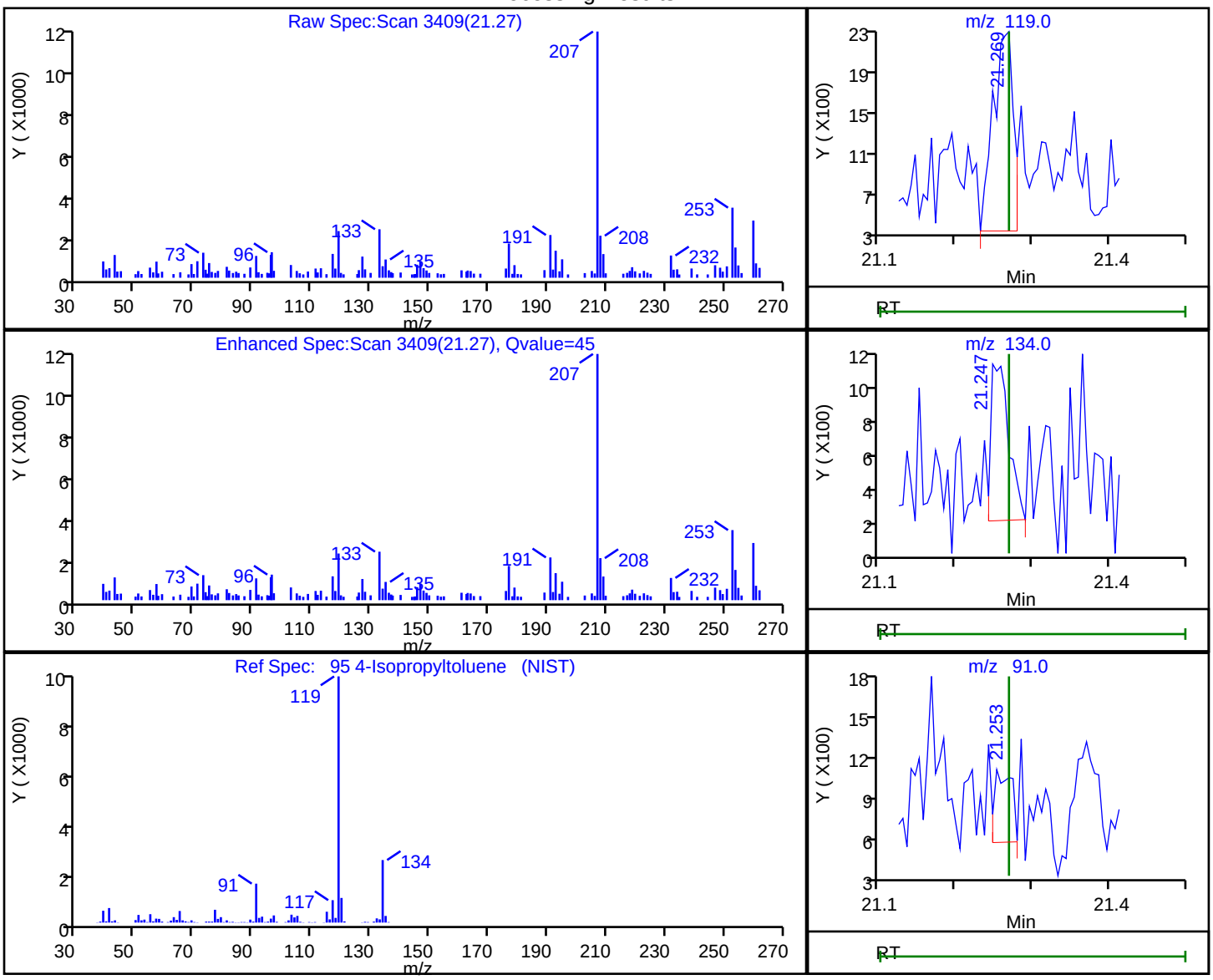
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.27 | 119.00 | 3388 | 0.013009 |
| 21.25 | 134.00 | 1439 | |
| 21.25 | 91.00 | 753 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

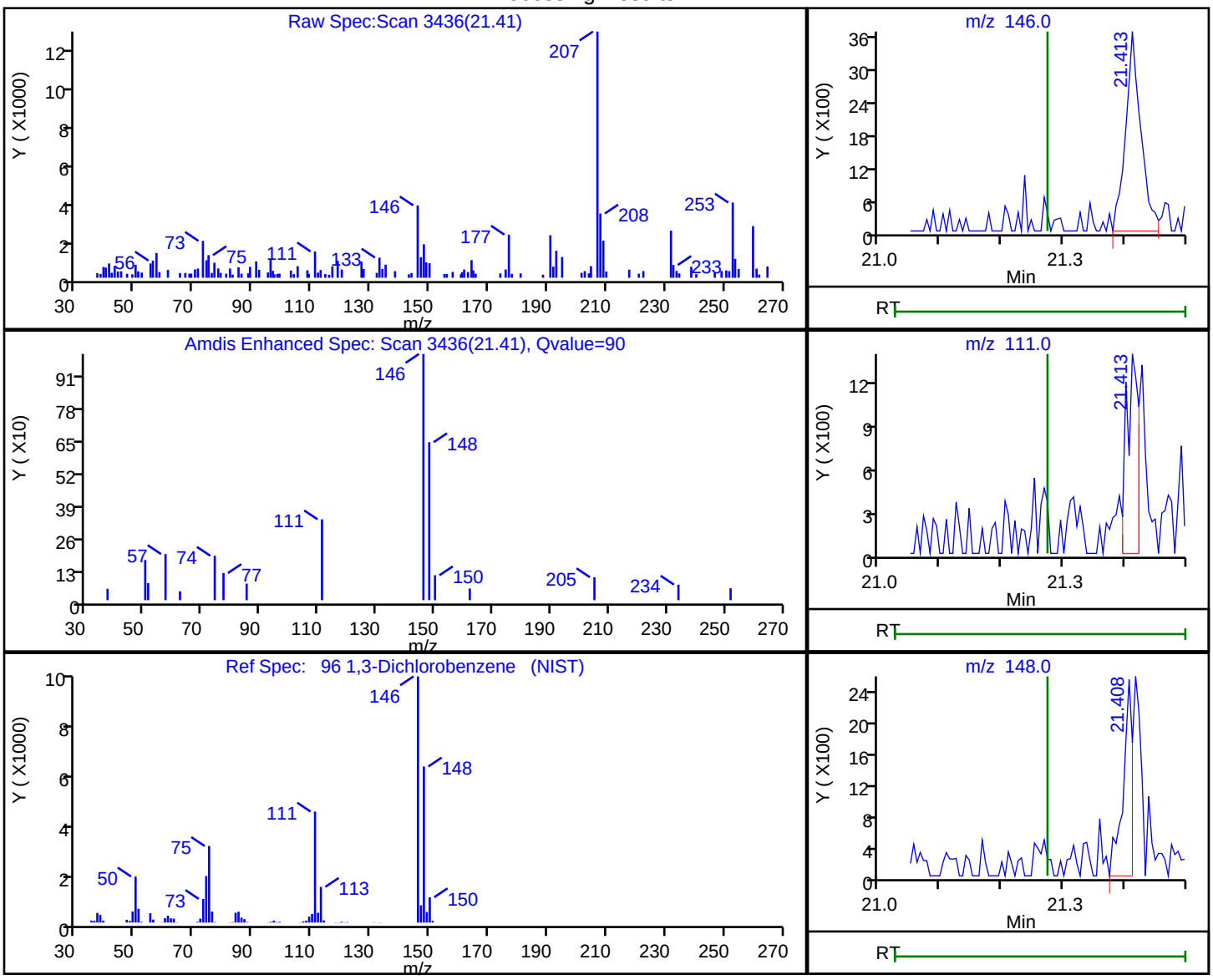
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.41 | 146.00 | 6300 | 0.035966 |
| 21.41 | 111.00 | 1766 | |
| 21.41 | 148.00 | 2636 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

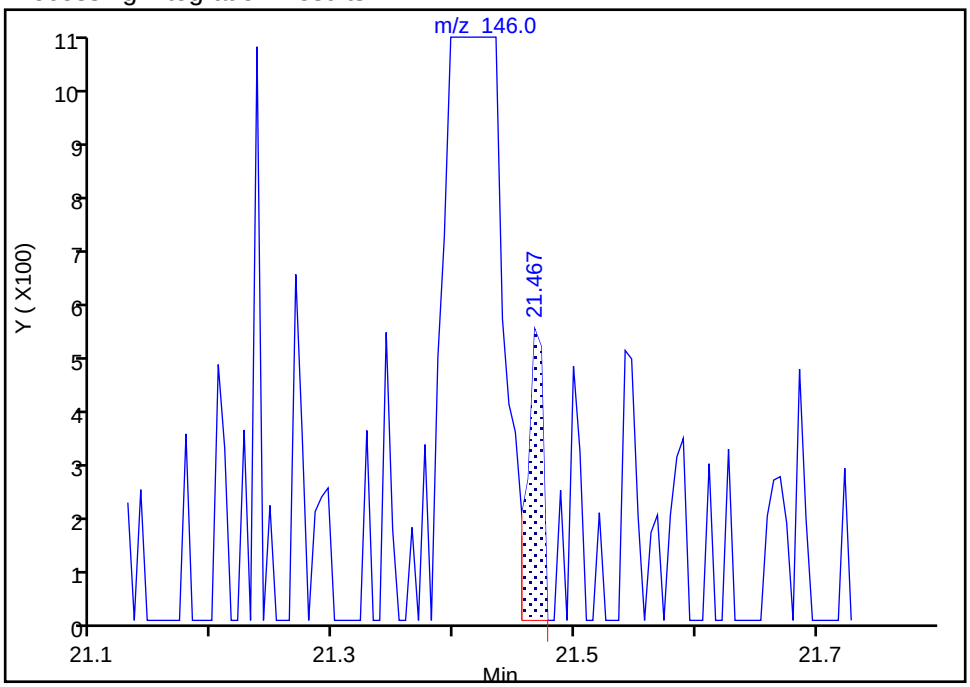
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

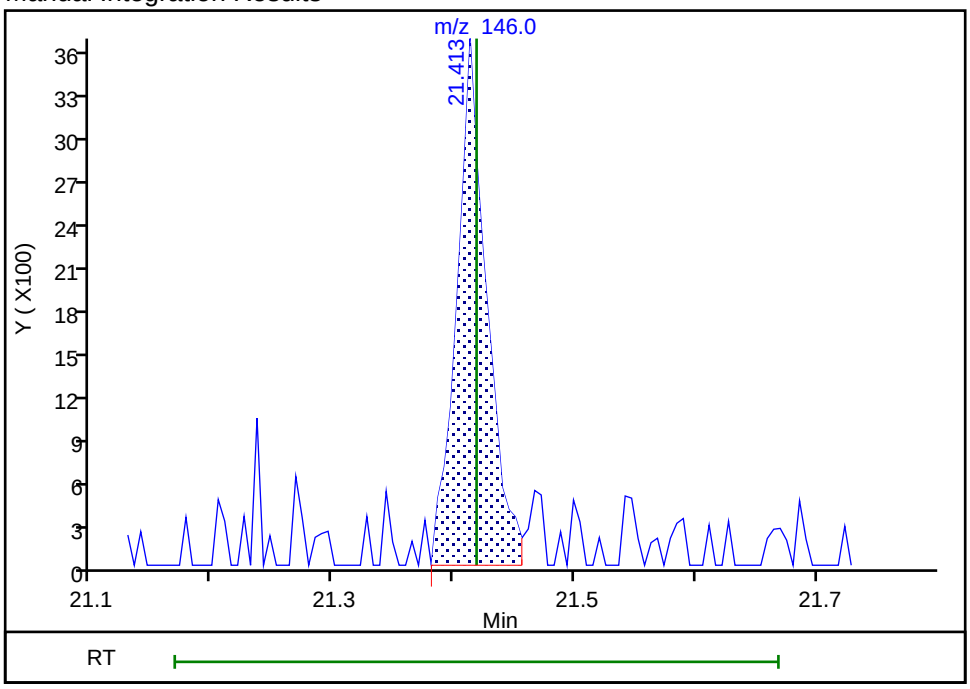
Processing Integration Results

RT: 21.47
Area: 463
Amount: 0.002764
Amount Units: ppb v/v




Manual Integration Results

RT: 21.41
Area: 6300
Amount: 0.037611
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 16:30:11

Audit Action: Assigned Compound ID Audit Reason: Assign Peak

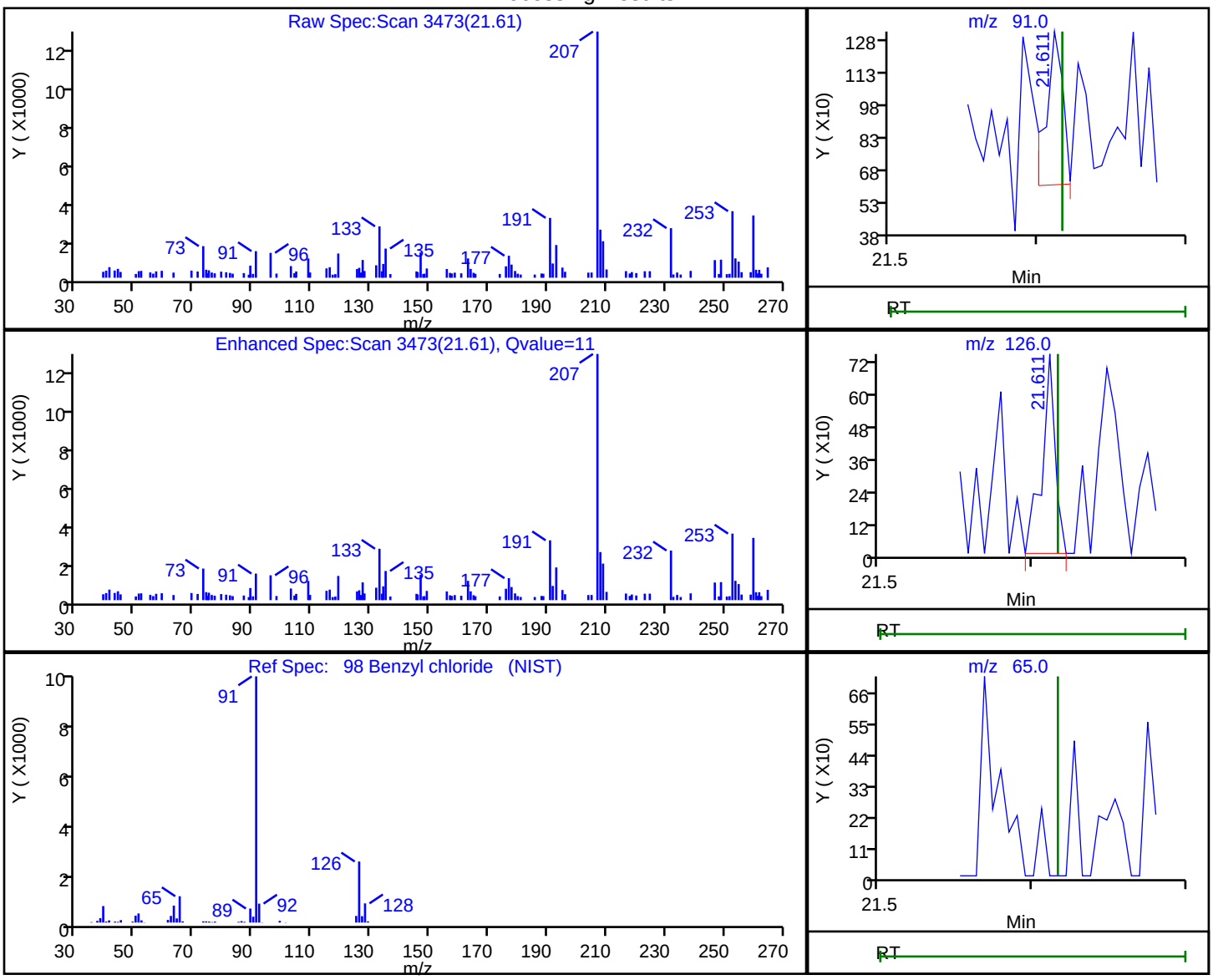
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.61 | 91.00 | 557 | 0.002694 |
| 21.61 | 126.00 | 446 | |
| 21.62 | 65.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

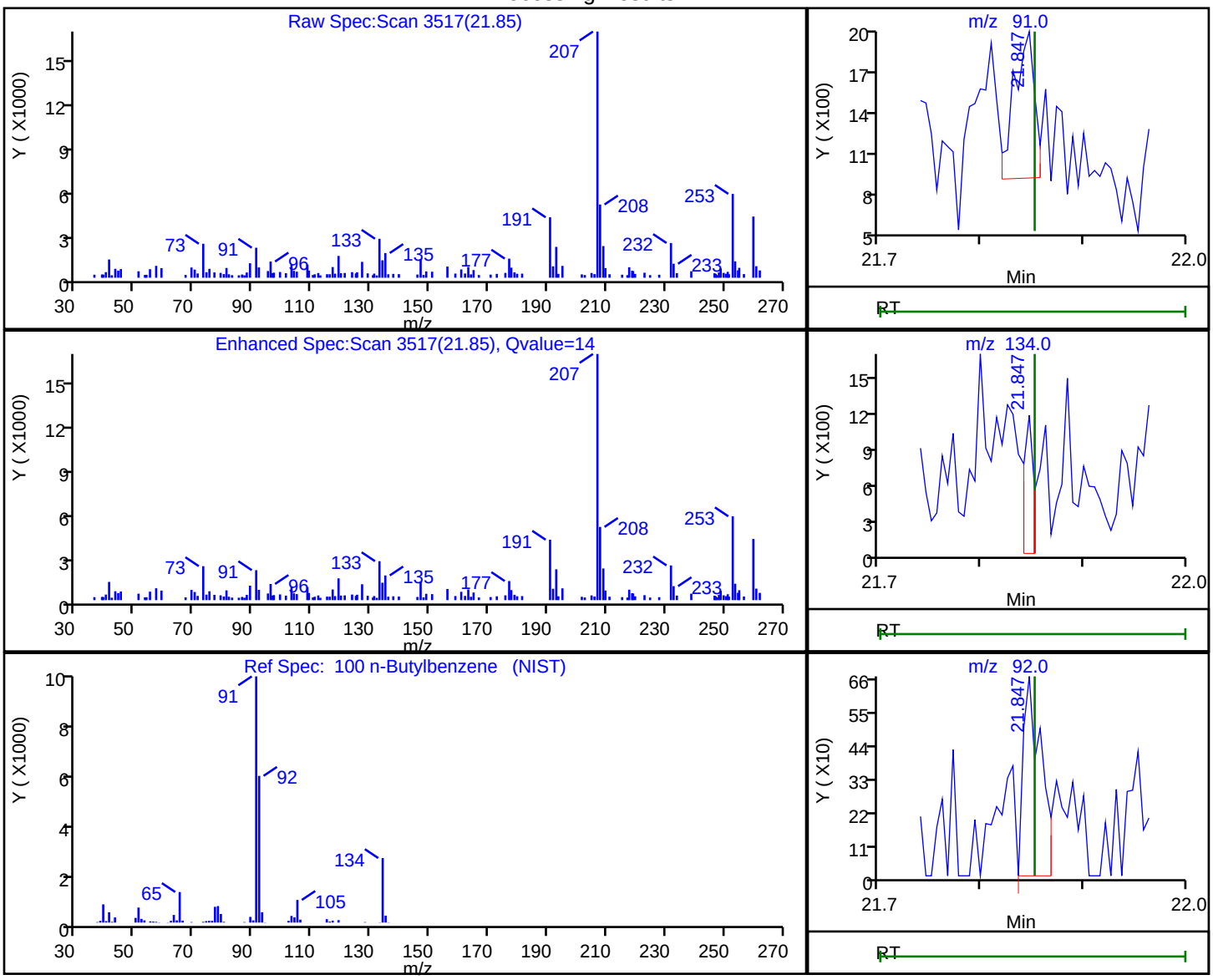
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 1397 | 0.005884 |
| 21.85 | 134.00 | 765 | |
| 21.85 | 92.00 | 817 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

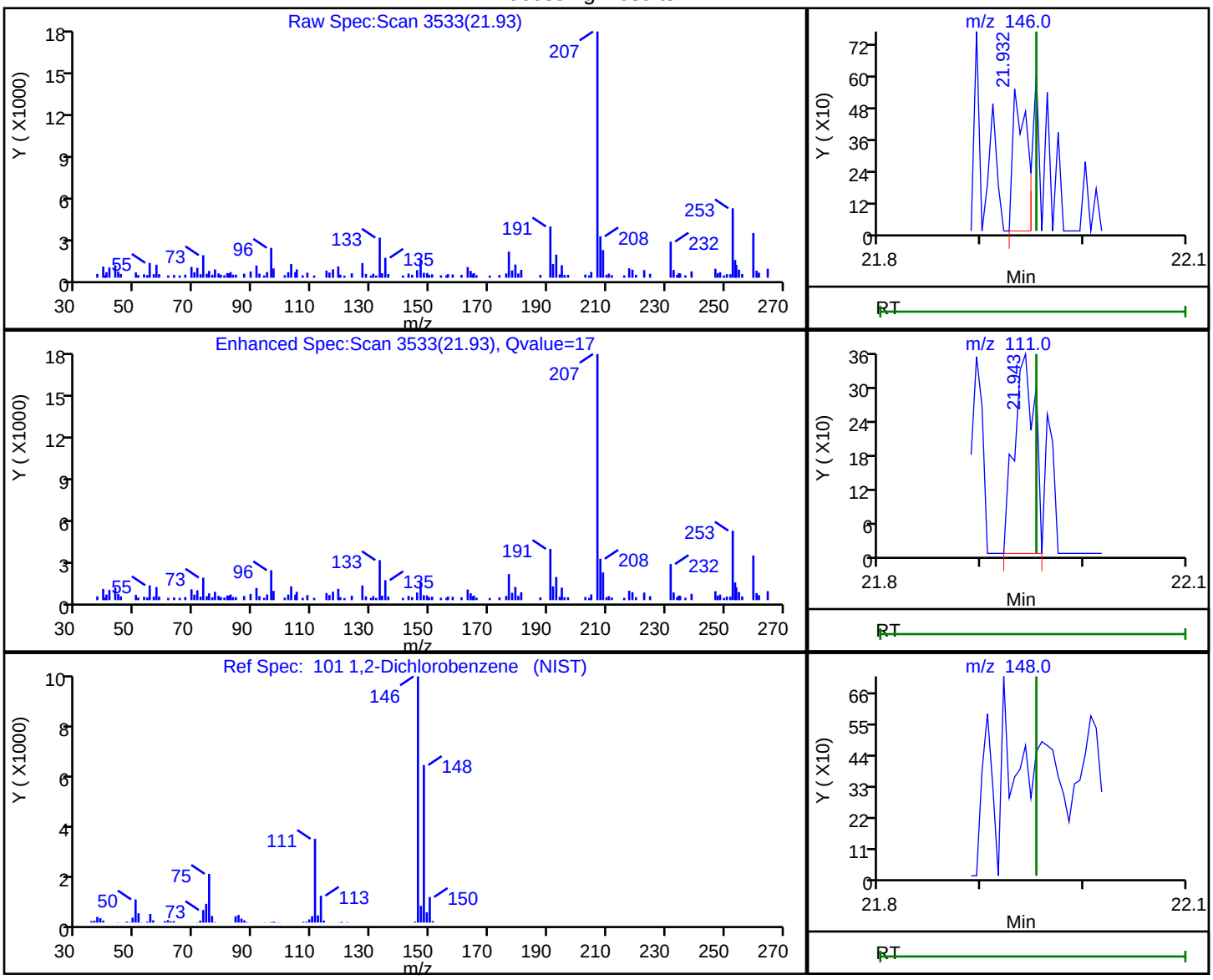
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.93 | 146.00 | 514 | 0.003193 |
| 21.94 | 111.00 | 495 | |
| 21.95 | 148.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

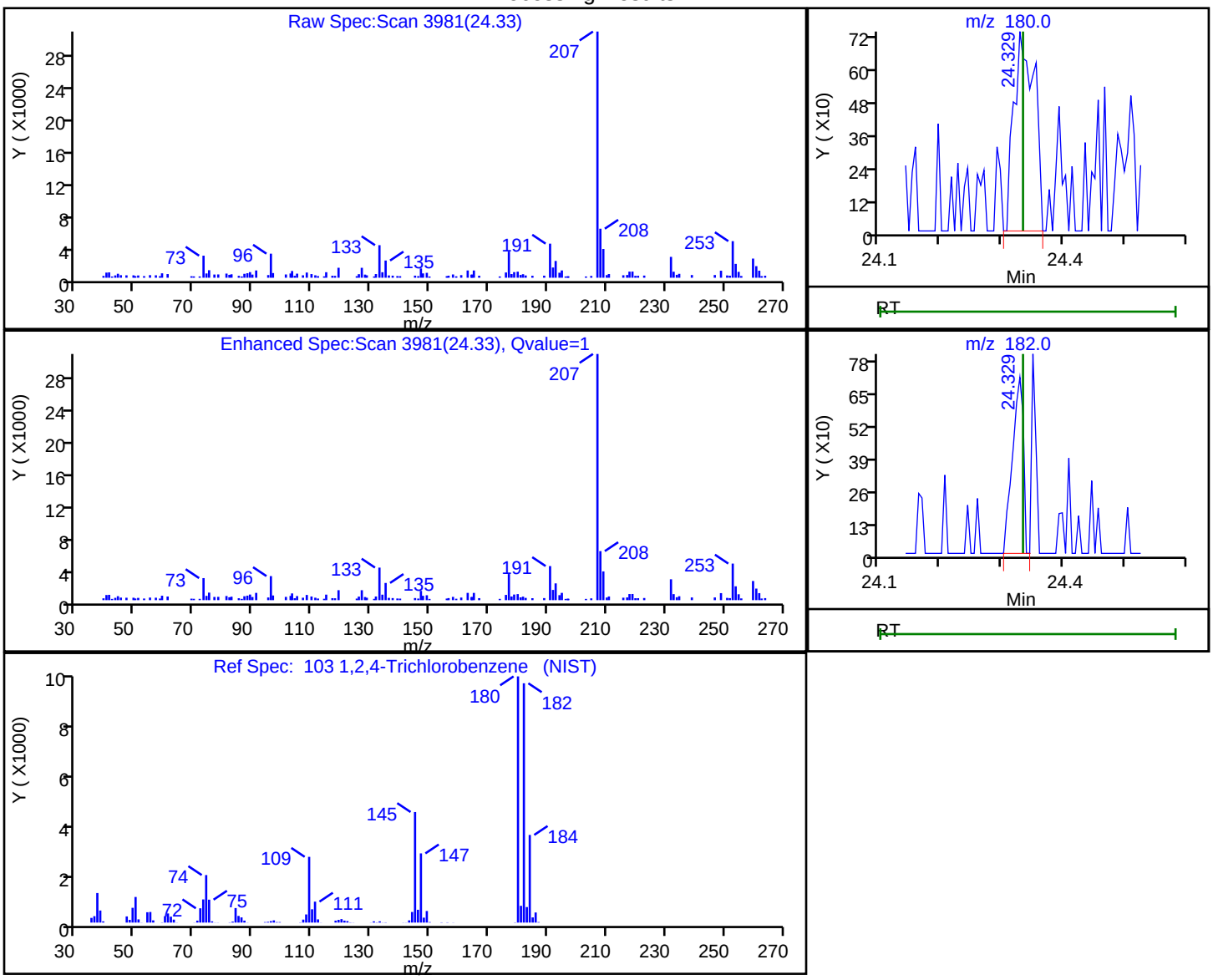
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.33 | 180.00 | 1717 | 0.014190 |
| 24.33 | 182.00 | 879 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

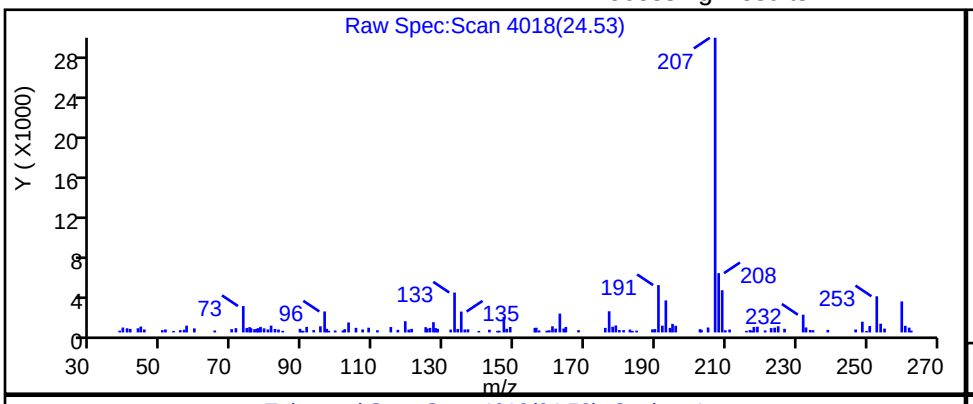
User Disabled Compound Report

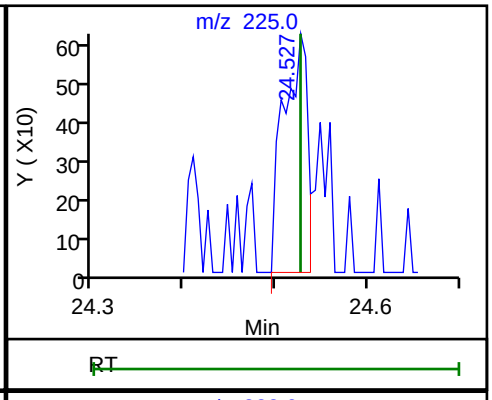
TestAmerica Burlington

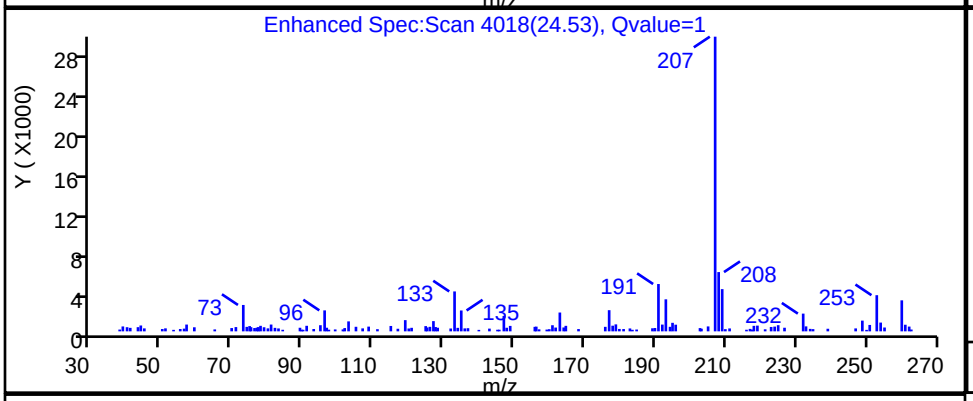
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

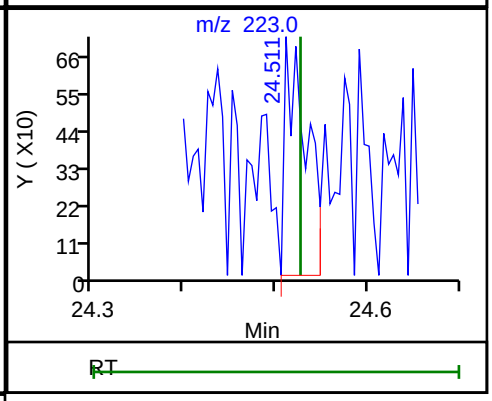
## 104 Hexachlorobutadiene, CAS: 87-68-3

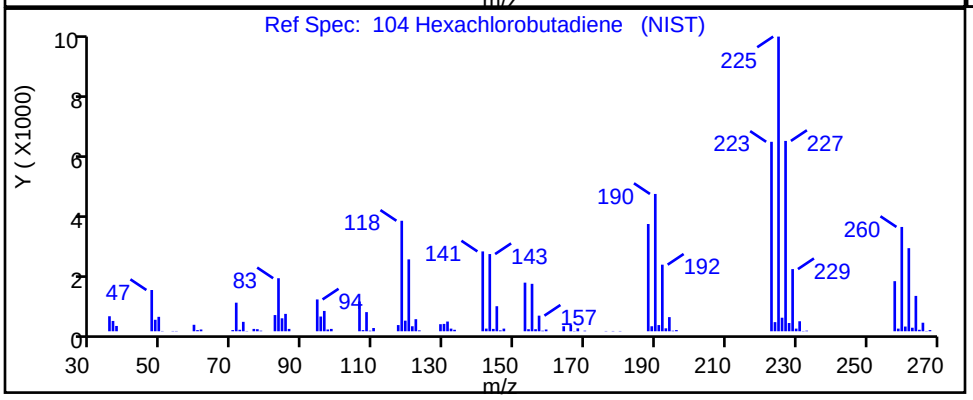
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 1143 | 0.009496 |
| 24.51 | 223.00 | 1164 | |

Reviewer: bunmaa, 06-Dec-2018 16:30:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

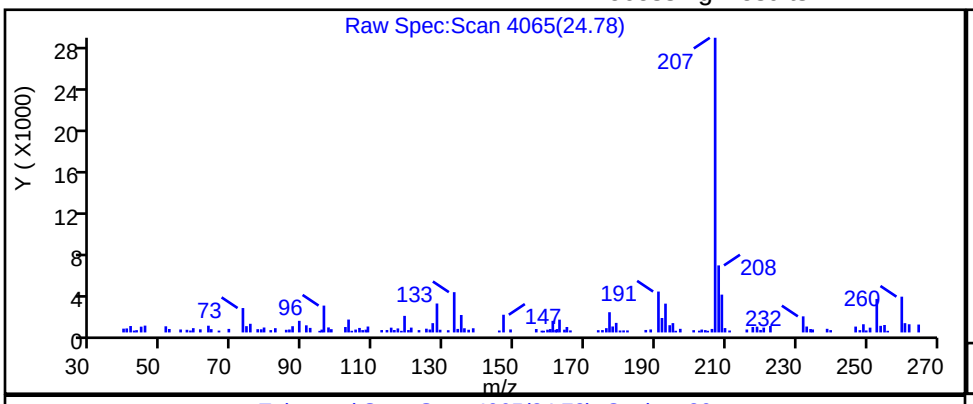
User Disabled Compound Report

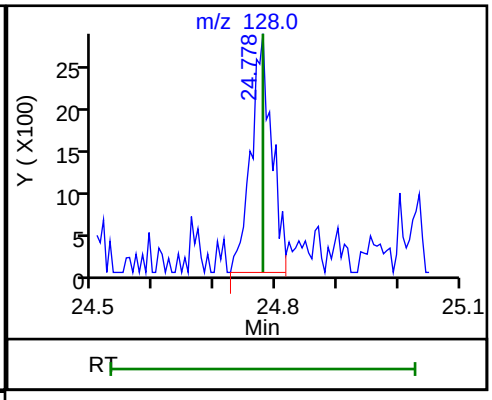
TestAmerica Burlington

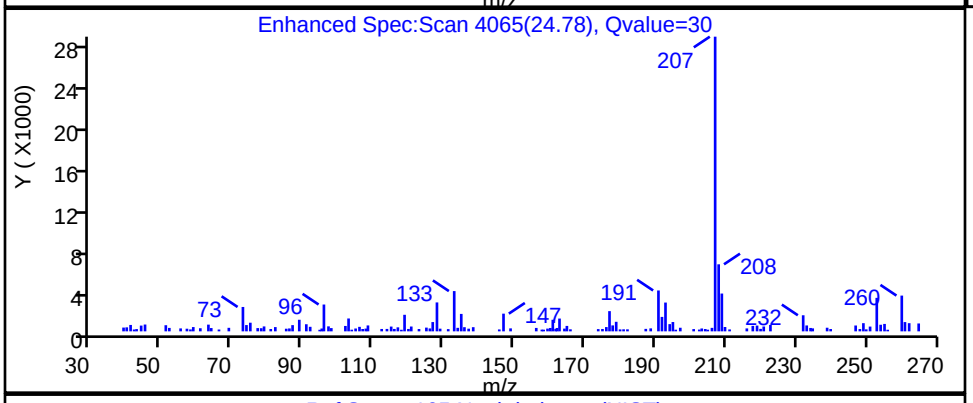
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D | | | | |
| Injection Date: | 06-Dec-2018 03:30:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-1 | Lab Sample ID: | 200-46353-1 | | |
| Client ID: | AA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 17 | Worklist Smp#: | 17 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

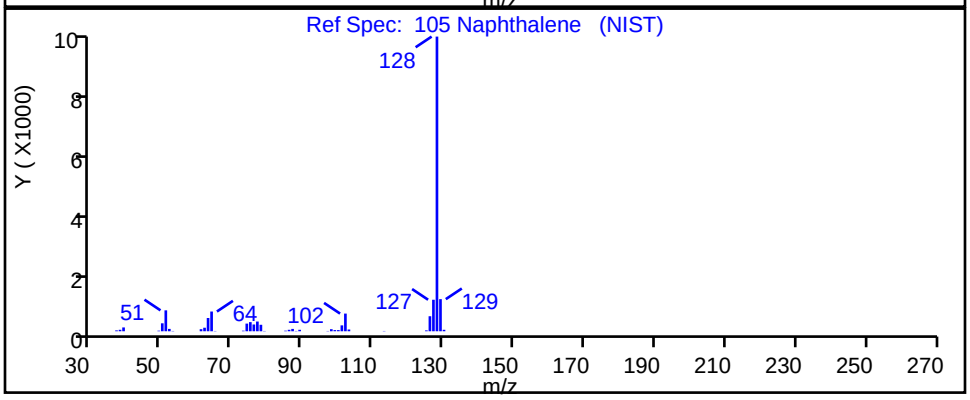
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.78 | 128.00 | 6610 | 0.028177 |

Reviewer: bunmaa, 06-Dec-2018 16:30:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.53 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.52 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.2 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 200 | E | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.23 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.91 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.80 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.22 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.058 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.30 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.74 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 2.0 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 11 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 3.7 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.24 | | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120  Lab Sample ID: 200-46353-2

Matrix: Air  Lab File ID: 200-33531-018.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.6 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.1 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 480 | E | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 0.81 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.7 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 3.9 | | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.76 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.37 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.96 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 2.8 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 8.7 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 46 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 16 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 1.0 | | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.96 | | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120  Lab Sample ID: 200-46353-2

Matrix: Air  Lab File ID: 200-33531-018.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D
Lims ID: 200-46353-A-2
Client ID: IA-1_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 04:21:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-018
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 17:33:28 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: bunmaa Date: 06-Dec-2018 17:20:50

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.156 | -0.011 | 99 | 118319 | 0.5339 | |
| 3 Chlorodifluoromethane | 51 | 3.181 | 3.183 | 0.000 | 96 | 35202 | 0.3731 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | ND | MU |
| 5 Chloromethane | 50 | 3.454 | 3.467 | -0.011 | 98 | 22476 | 0.5212 | |
| 6 Butane | 43 | 3.604 | 3.606 | 0.000 | 97 | 125395 | 2.16 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | U |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.762 | -0.001 | 98 | 38540 | 0.2200 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599 | 5.608 | -0.006 | 82 | 8517 | 0.0690 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.840 | 5.859 | -0.016 | 99 | 9415884 | 203.6 | E |
| 23 Carbon disulfide | 76 | | 6.017 | | | | ND | MU |
| 24 Isopropyl alcohol | 45 | 6.113 | 6.100 | 0.016 | 100 | 67617 | 1.32 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | U |
| 27 Methylene Chloride | 49 | 6.562 | 6.562 | 0.005 | 87 | 8528 | 0.1740 | M |
| 28 2-Methyl-2-propanol | 59 | 6.803 | 6.803 | 0.032 | 50 | 13729 | 0.1757 | M |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | 7.274 | 7.283 | -0.005 | 90 | 12127 | 0.2312 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.798 | 8.798 | 0.005 | 100 | 15142 | 0.9124 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.152 | 0.005 | 74 | 594049 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | MU |
| 42 Chloroform | 83 | 9.269 | 9.274 | 0.000 | 95 | 99569 | 0.8024 | |
| 43 Cyclohexane | 84 | 9.531 | 9.531 | 0.000 | 92 | 14205 | 0.2199 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | U |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.778 | 0.000 | 77 | 9753 | 0.0584 | |
| 46 Isooctane | 57 | 10.189 | 10.190 | -0.006 | 94 | 29927 | 0.1400 | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | 10.211 | 10.211 | -0.005 | 97 | 44945 | 0.2999 | |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | MU |
| | 49 n-Heptane | 43 | 10.569 | 10.569 | -0.006 | 85 | 9999 | 0.1297 | M |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2814494 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.484 | | | | ND | U |
| | 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | MU |
| | 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | U |
| | 58 Dichlorobromomethane | 83 | 12.559 | 12.559 | 0.010 | 95 | 6497 | 0.0427 | M |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | |
| | 65 Toluene | 92 | 14.057 | 14.068 | -0.011 | 94 | 77953 | 0.7383 | |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | MU |
| | 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 15.132 | 15.143 | -0.011 | 96 | 15868 | 0.1255 | |
| | 69 2-Hexanone | 43 | | 15.507 | | | | ND | U |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2606476 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | 17.181 | 17.181 | -0.001 | 98 | 476126 | 2.00 | |
| | 78 m-Xylene & p-Xylene | 106 | 17.433 | 17.433 | 0.000 | 0 | 1014641 | 10.5 | |
| | 79 o-Xylene | 106 | 18.289 | 18.294 | -0.005 | 99 | 338313 | 3.69 | |
| | 80 Styrene | 104 | 18.332 | 18.337 | -0.005 | 92 | 33656 | 0.2400 | |
| | 81 Bromoform | 173 | | 18.781 | | | | ND | |
| | 82 Isopropylbenzene | 105 | 19.048 | 19.048 | -0.001 | 92 | 9615 | 0.0359 | M |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | 19.840 | 19.840 | -0.006 | 90 | 12287 | 0.0385 | M |
| | 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | MU |
| | 88 4-Ethyltoluene | 105 | 20.054 | 20.054 | 0.000 | 75 | 13158 | 0.0485 | |
| | 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.177 | 0.000 | 91 | 10189 | 0.0439 | |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.792 | 20.798 | -0.006 | 98 | 44916 | 0.1960 | |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | MU |
| | 95 4-Isopropyltoluene | 119 | 21.263 | 21.269 | -0.006 | 93 | 7894 | 0.0286 | |
| | 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | 21.418 | 21.418 | 0.000 | 89 | 8974 | 0.0505 | a |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| | 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

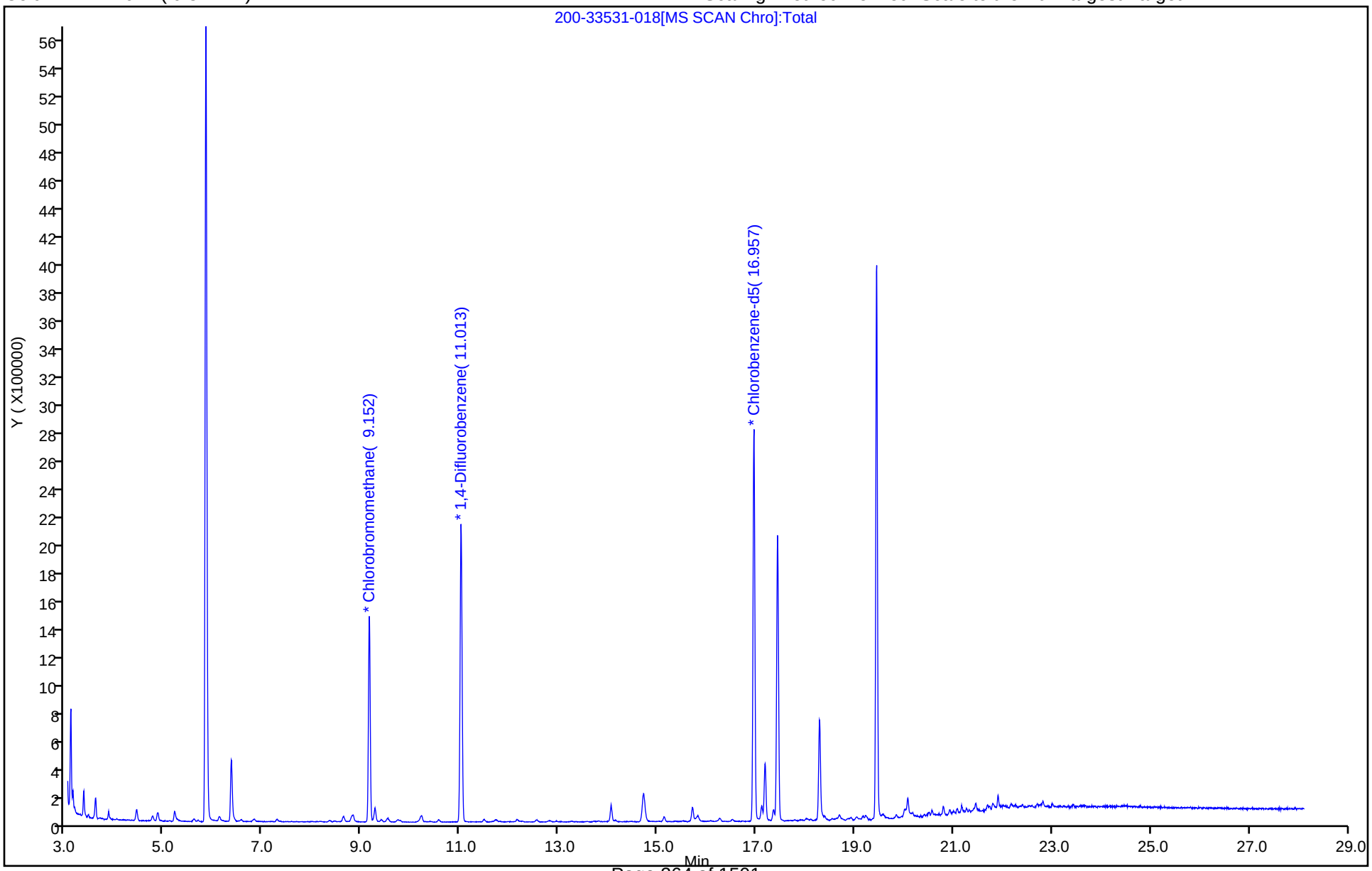
Report Date: 06-Dec-2018 17:33:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | Worklist Smp#: | 18 |
| Client ID: | IA-1_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 18 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



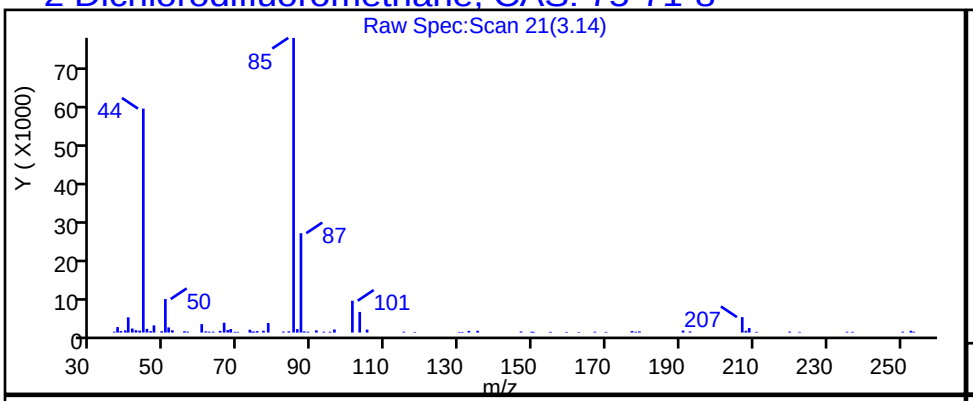
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

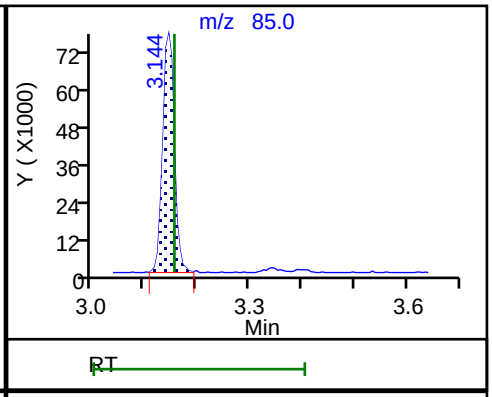
TestAmerica Burlington

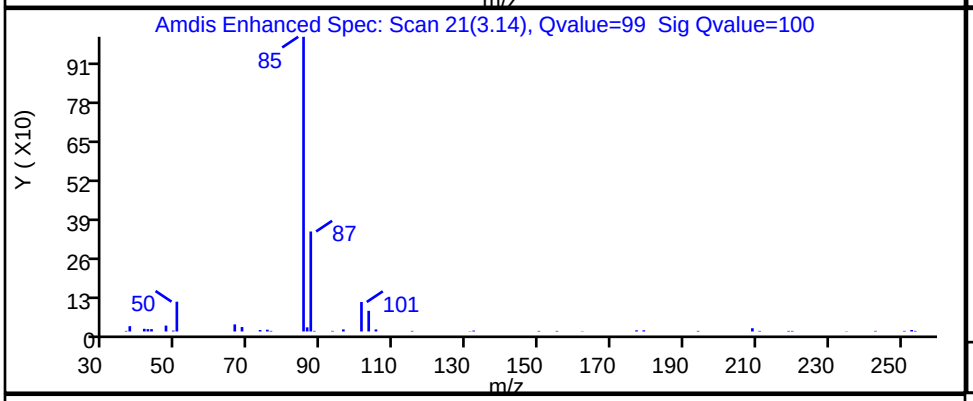
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

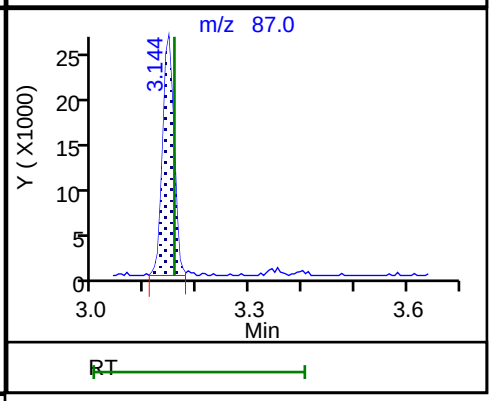
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

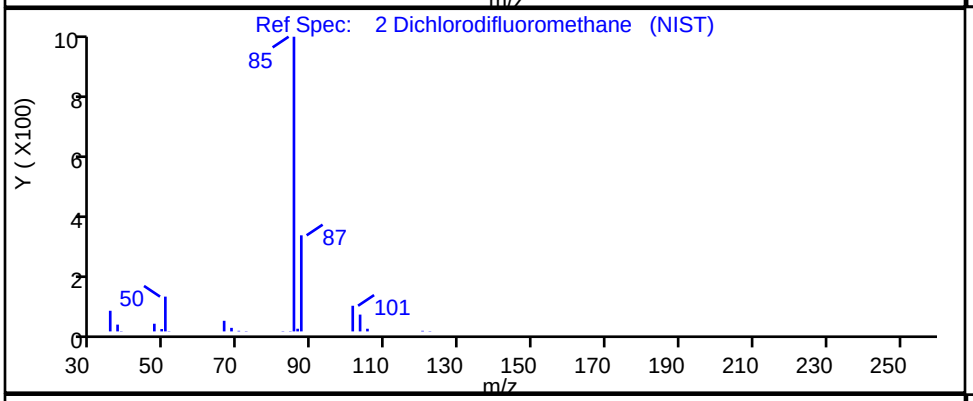
## 2 Dichlorodifluoromethane, CAS: 75-71-8

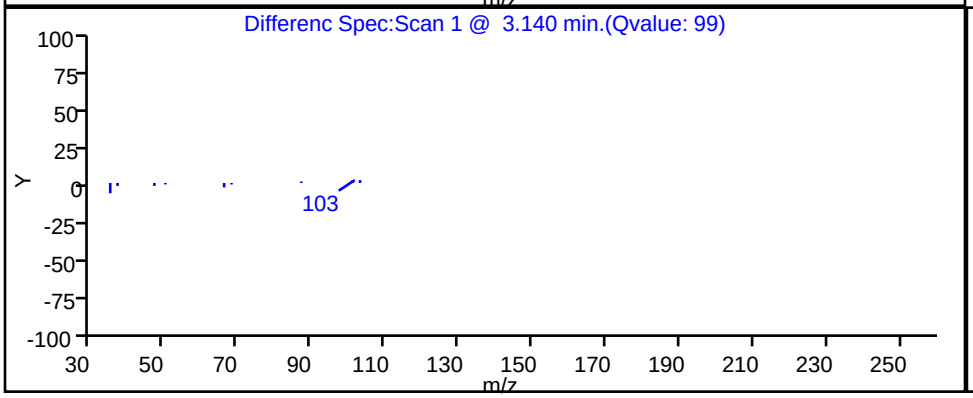


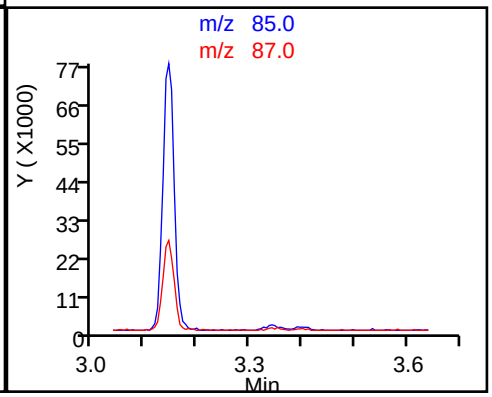



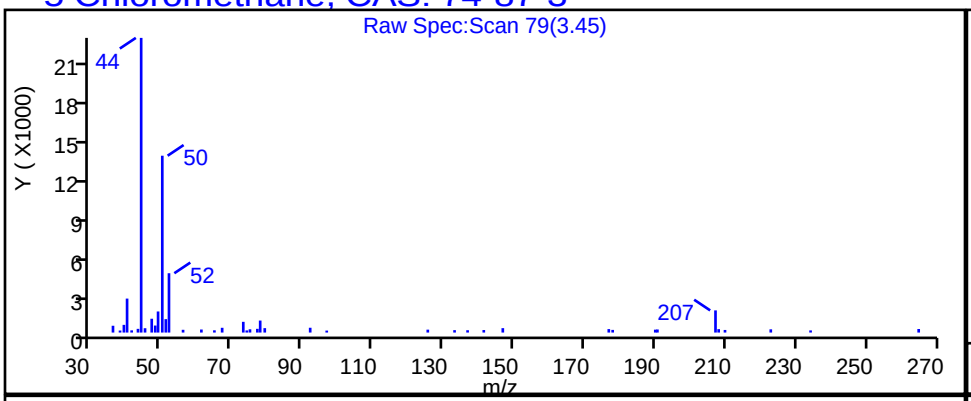
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

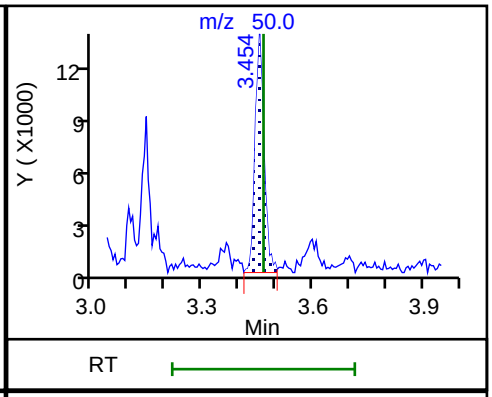
TestAmerica Burlington

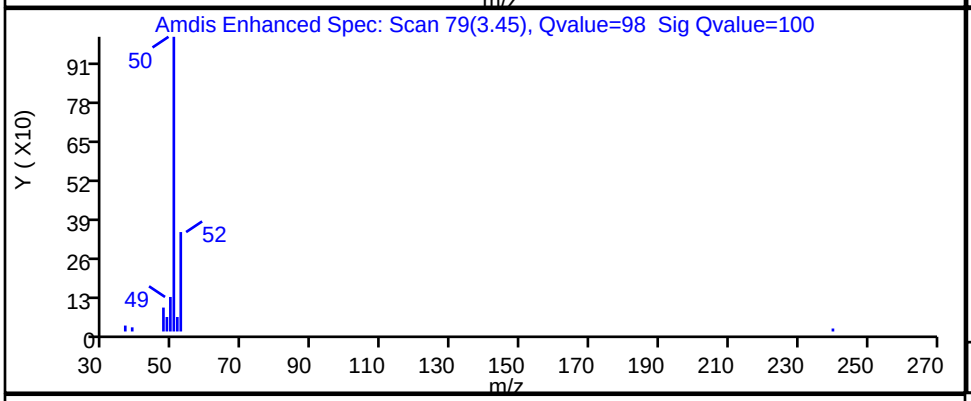
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

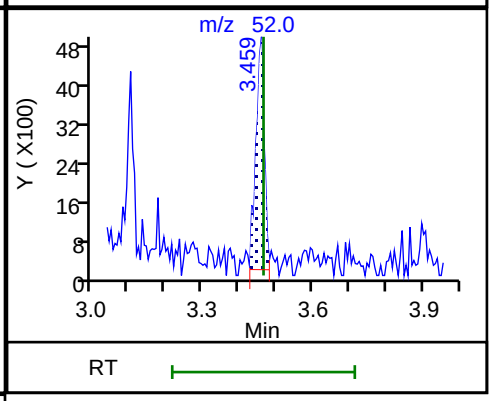
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

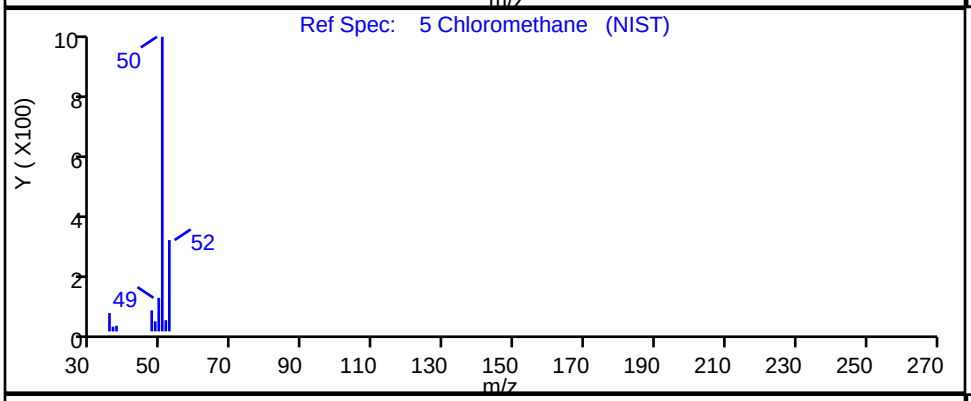
## 5 Chloromethane, CAS: 74-87-3

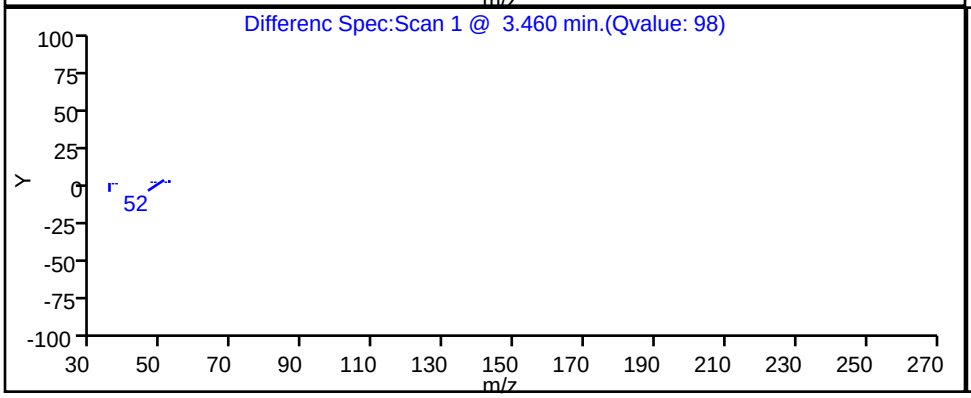


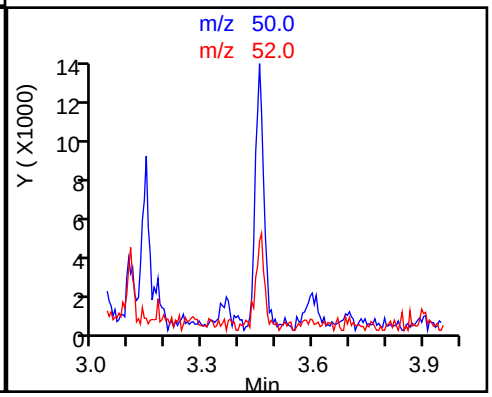



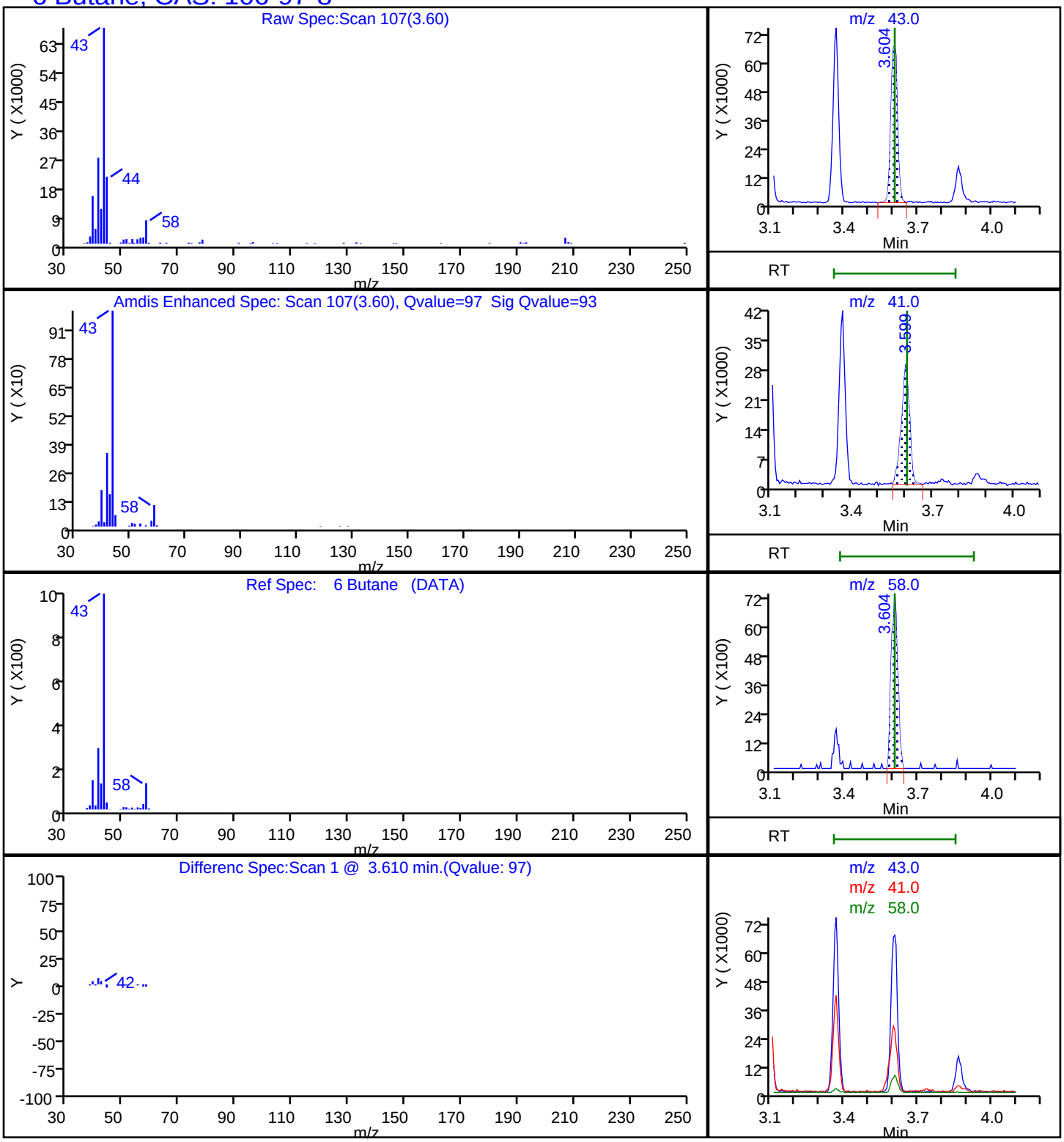
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



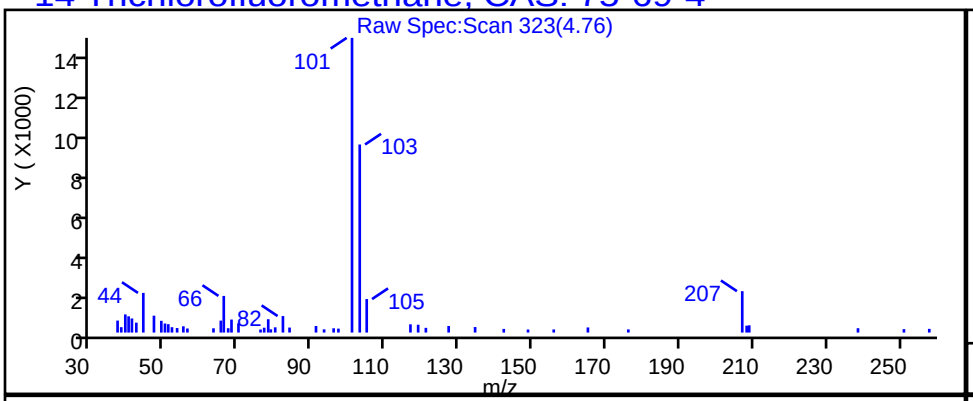
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

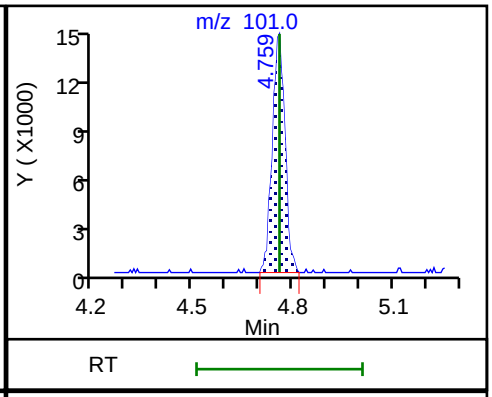
TestAmerica Burlington

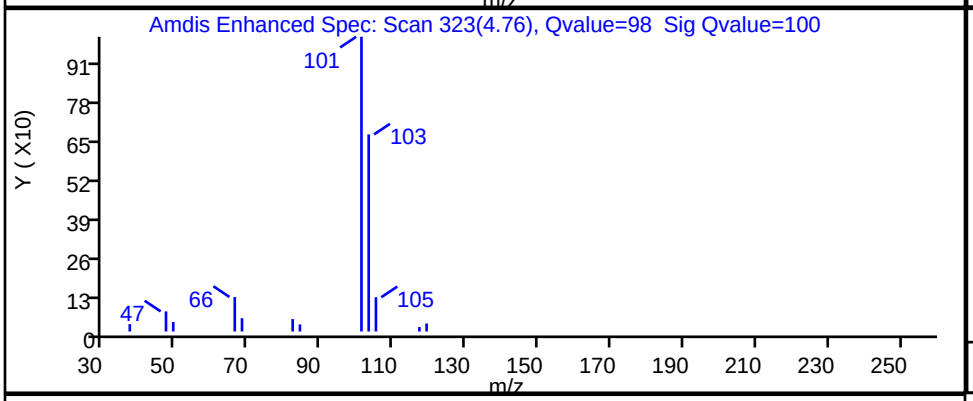
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

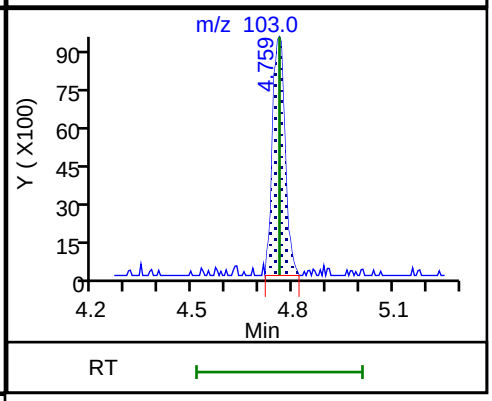
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

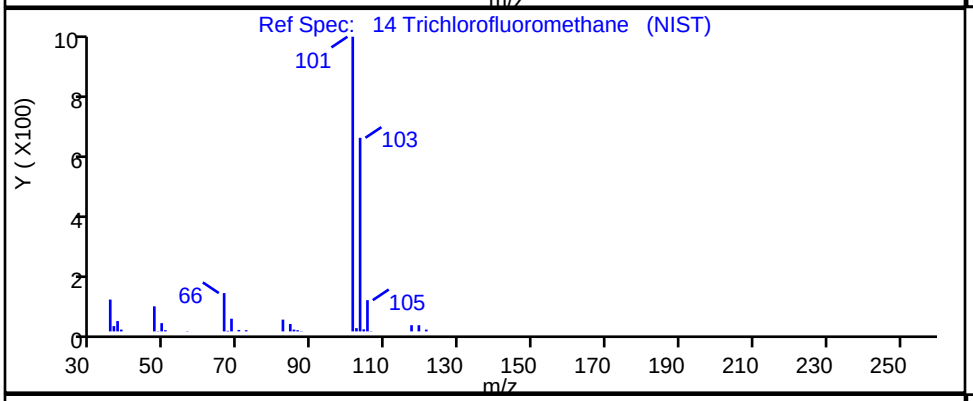
## 14 Trichlorofluoromethane, CAS: 75-69-4

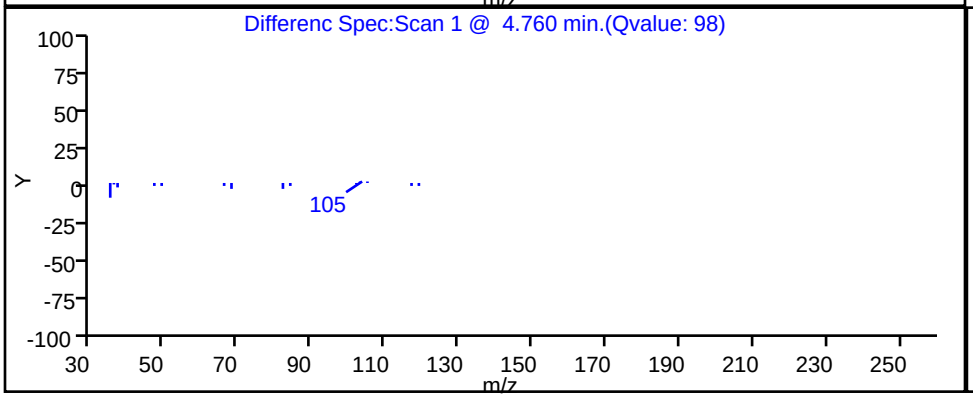


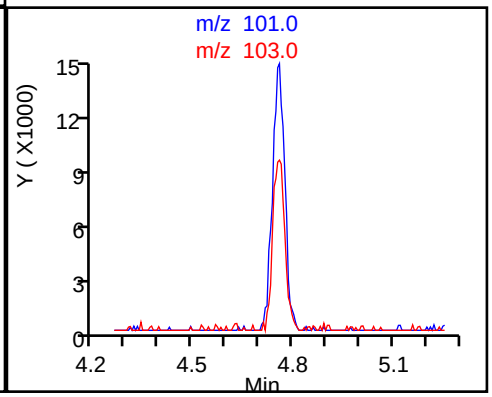



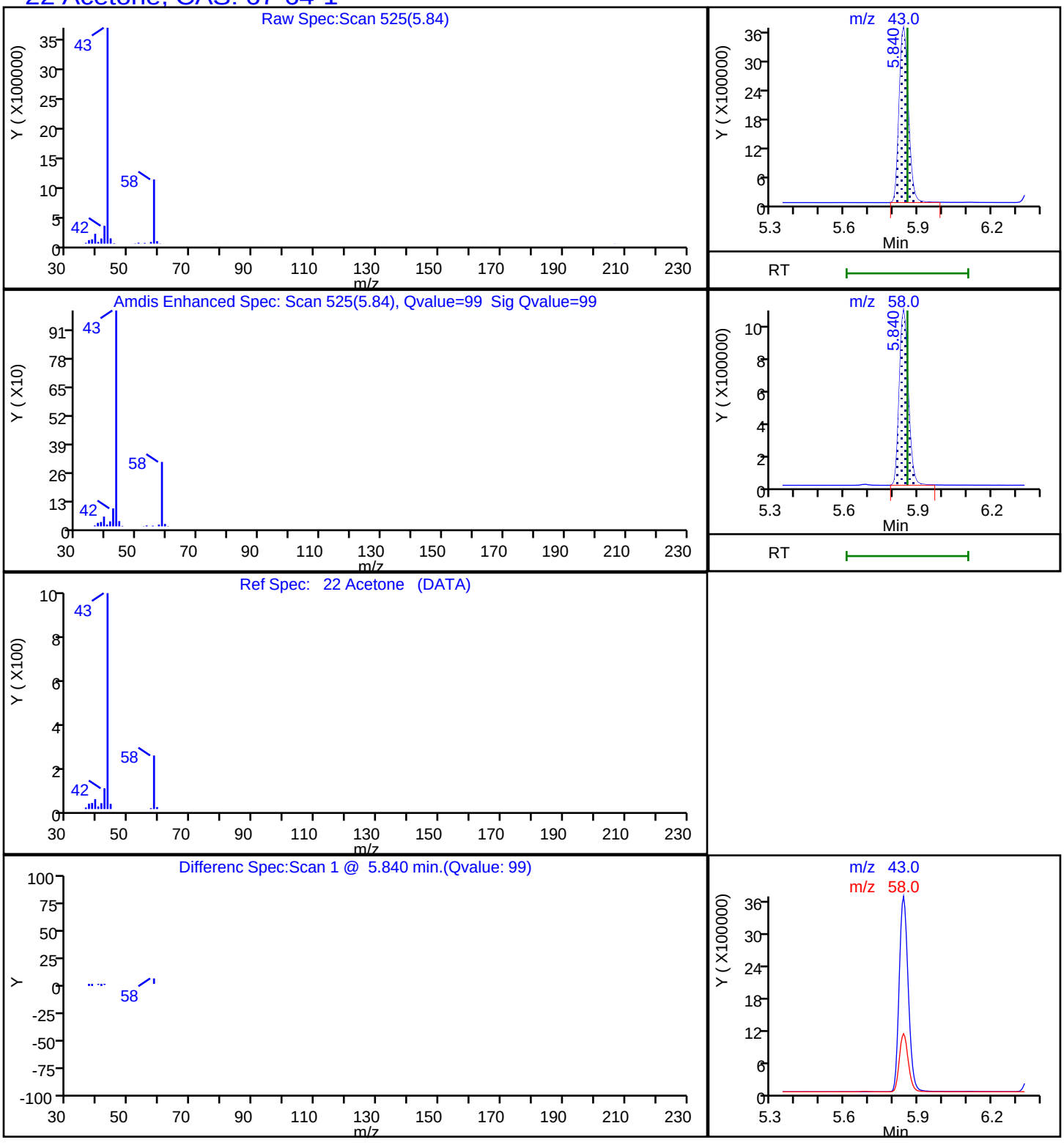



TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



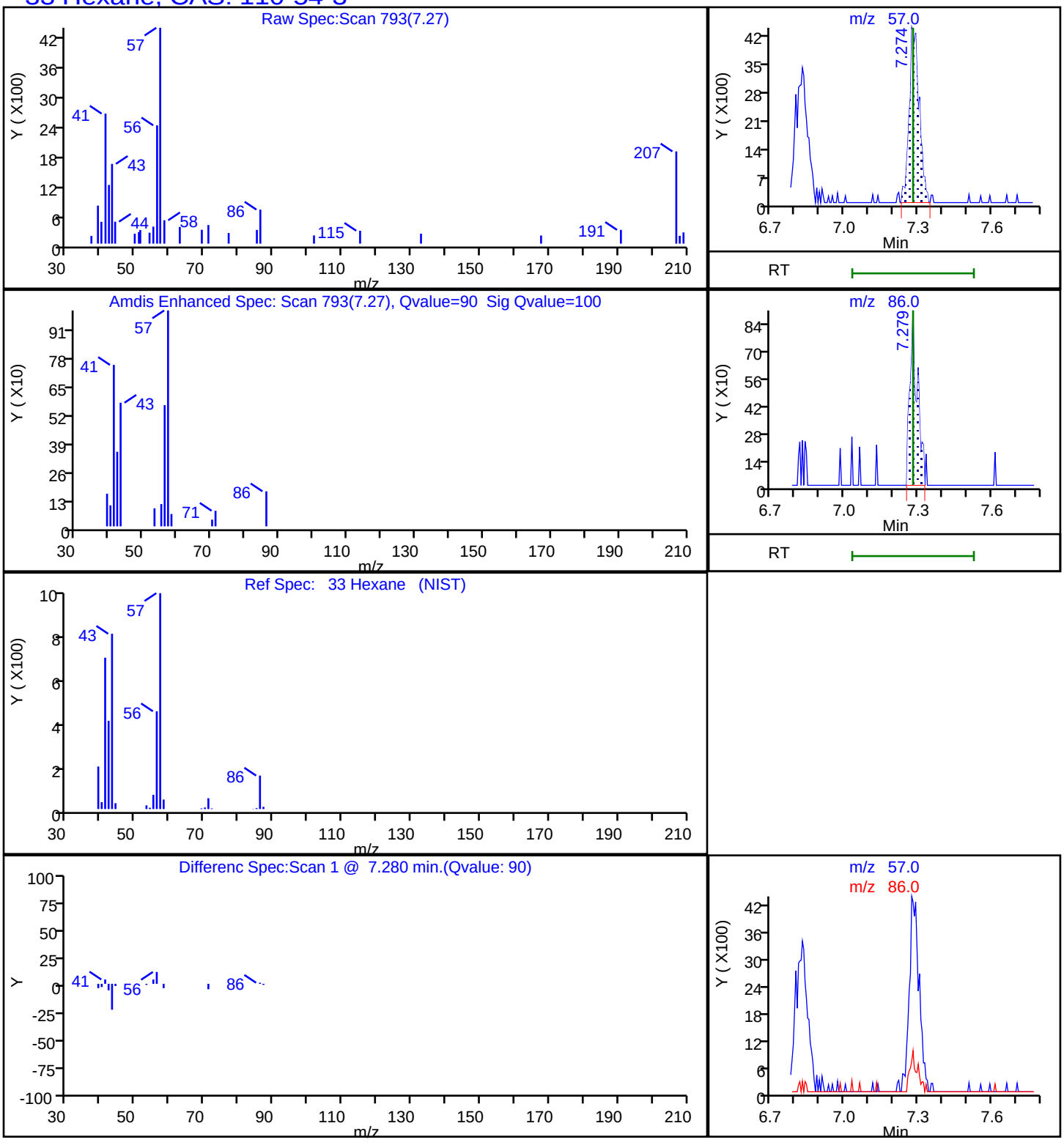
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



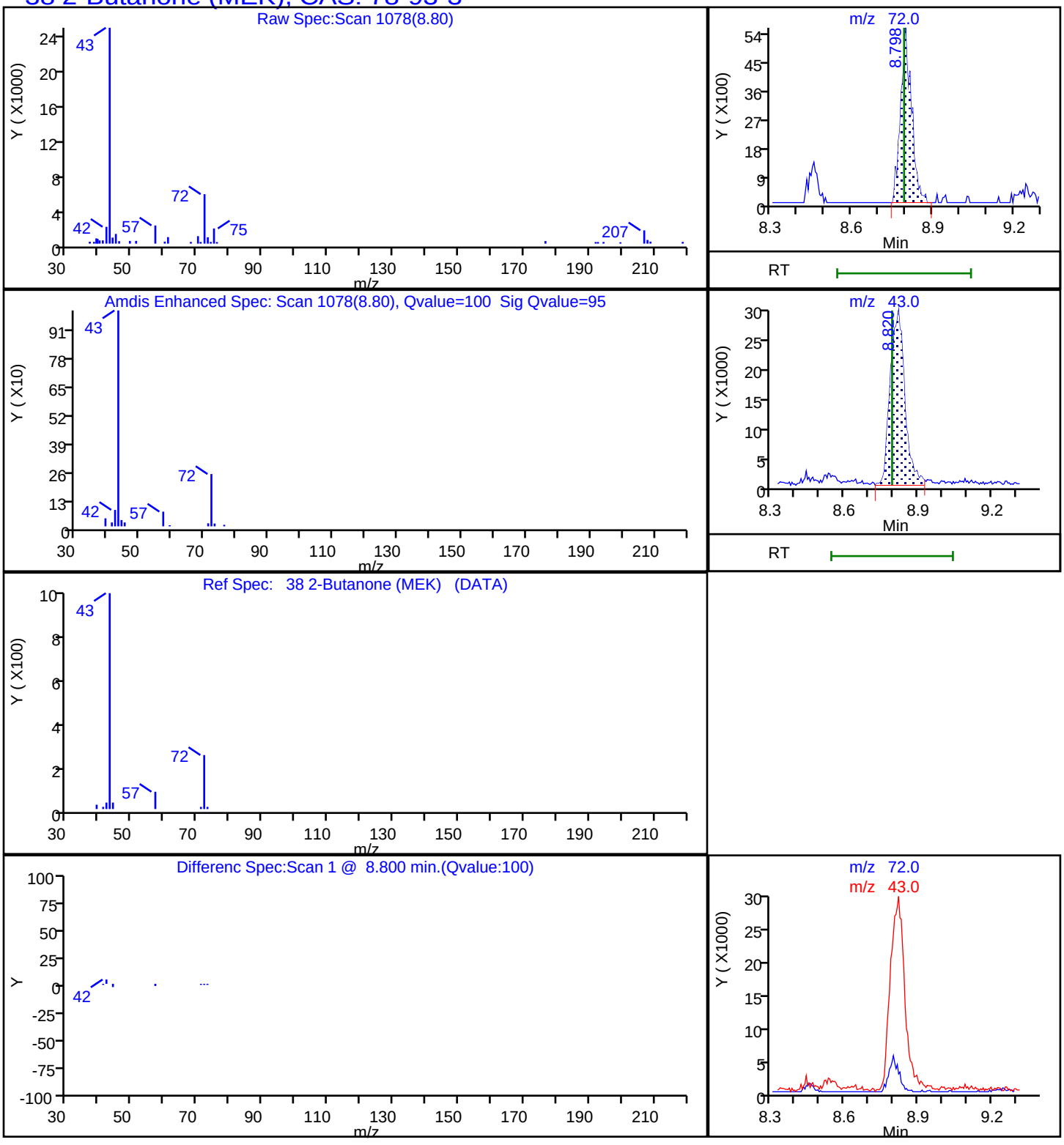
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 38 2-Butanone (MEK), CAS: 78-93-3



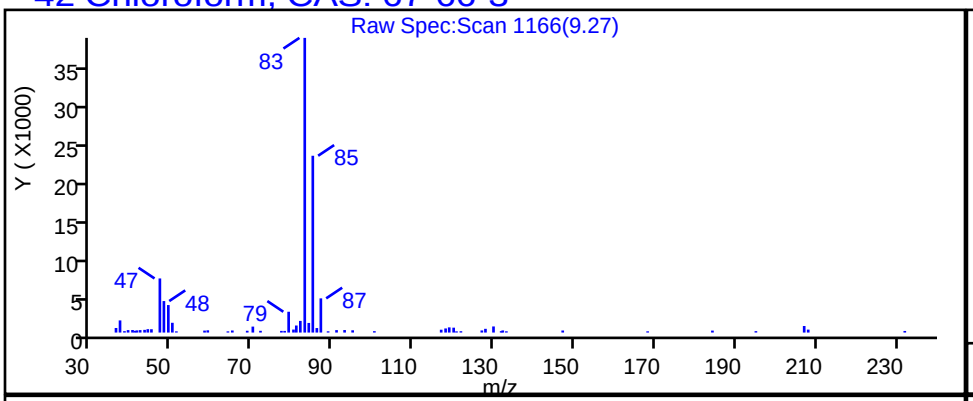
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

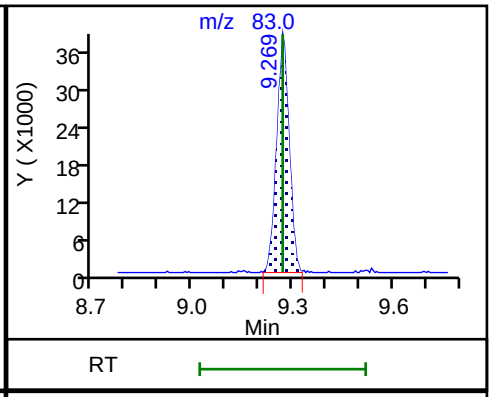
TestAmerica Burlington

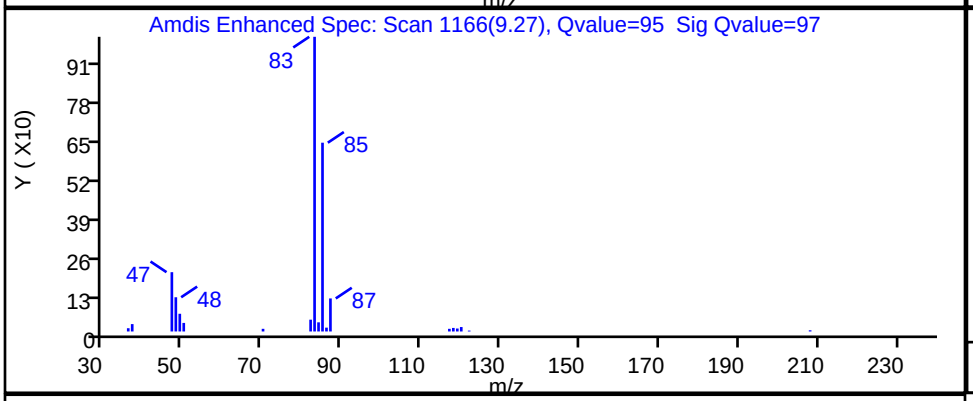
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

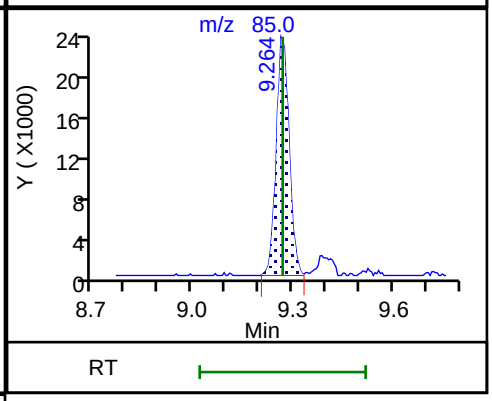
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

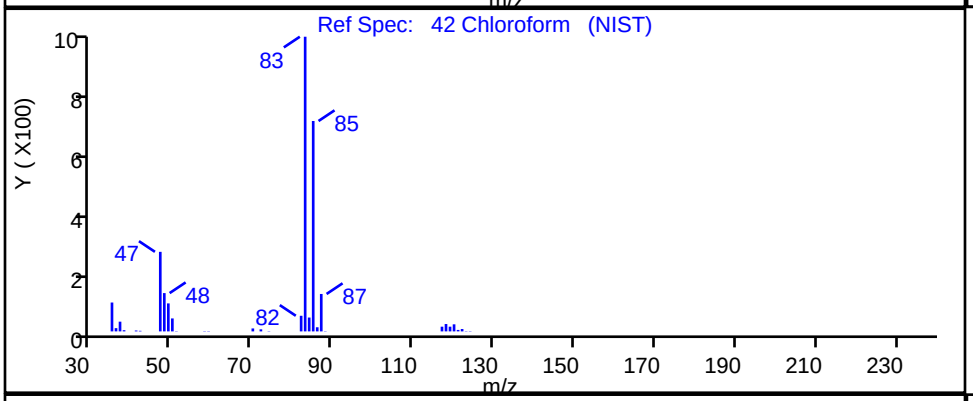
## 42 Chloroform, CAS: 67-66-3

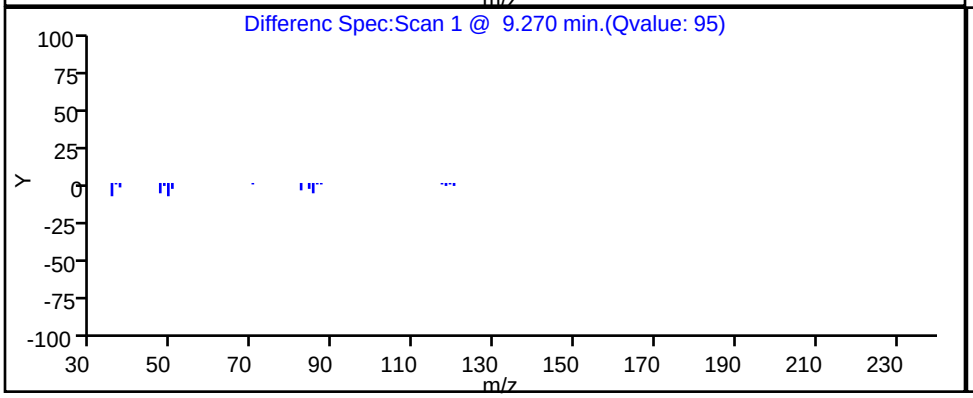


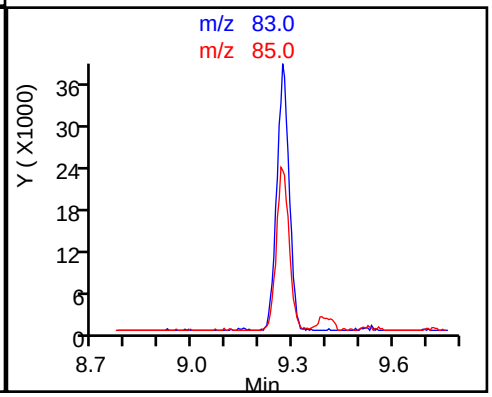



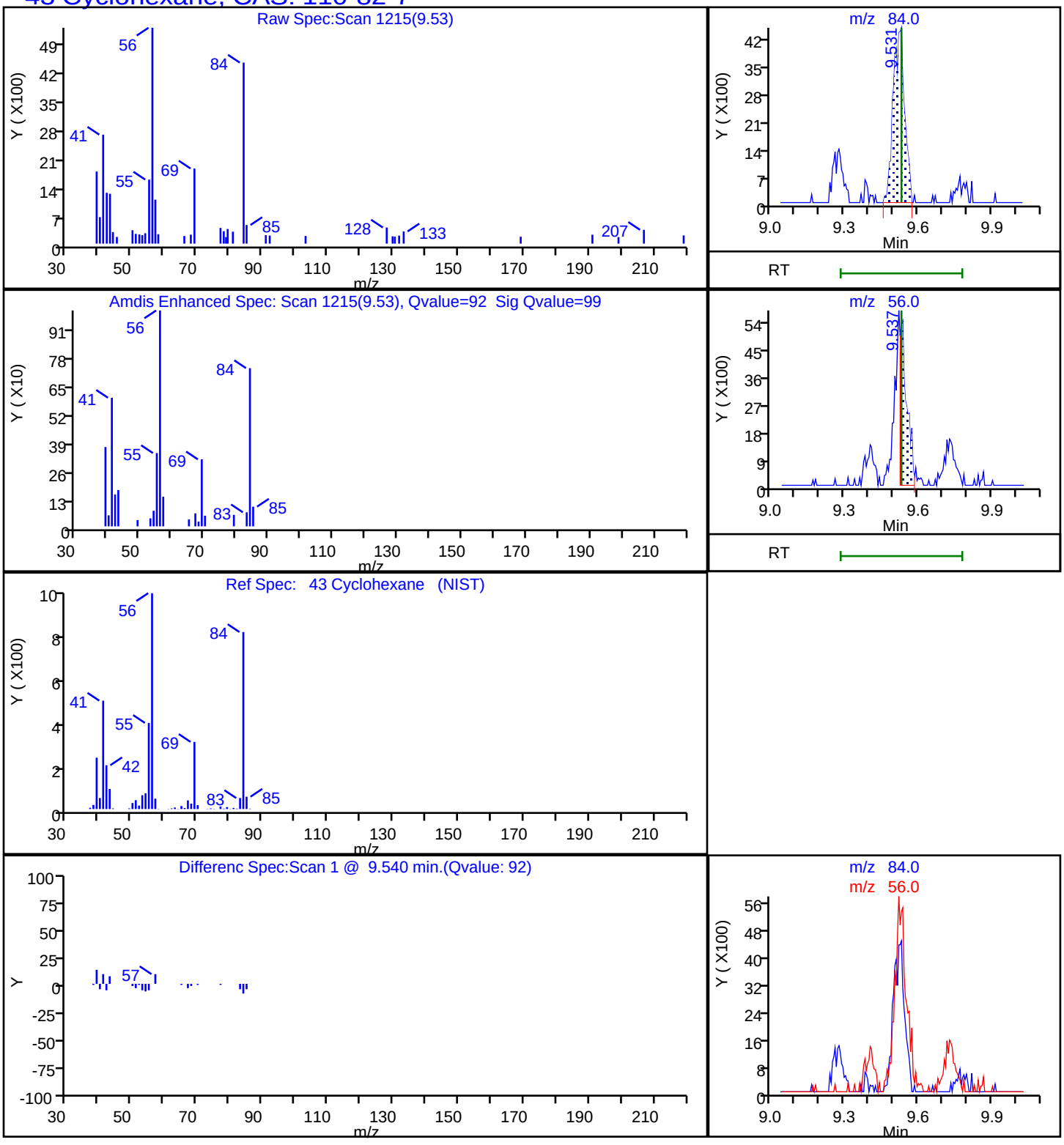
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7



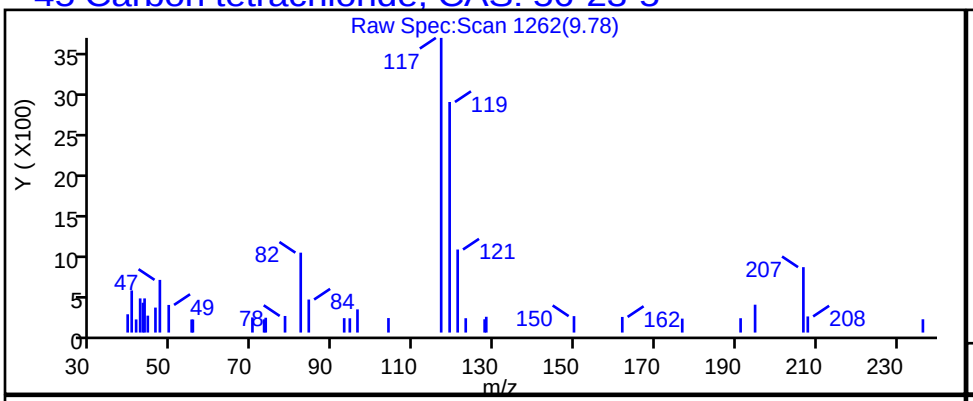
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

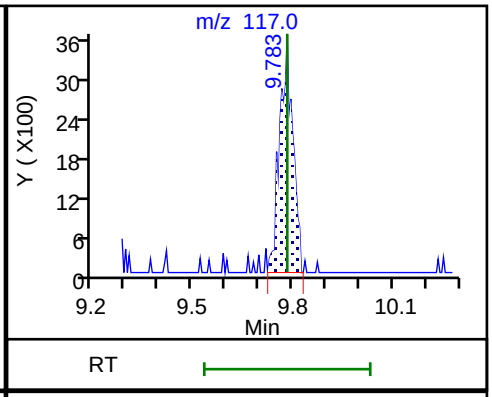
TestAmerica Burlington

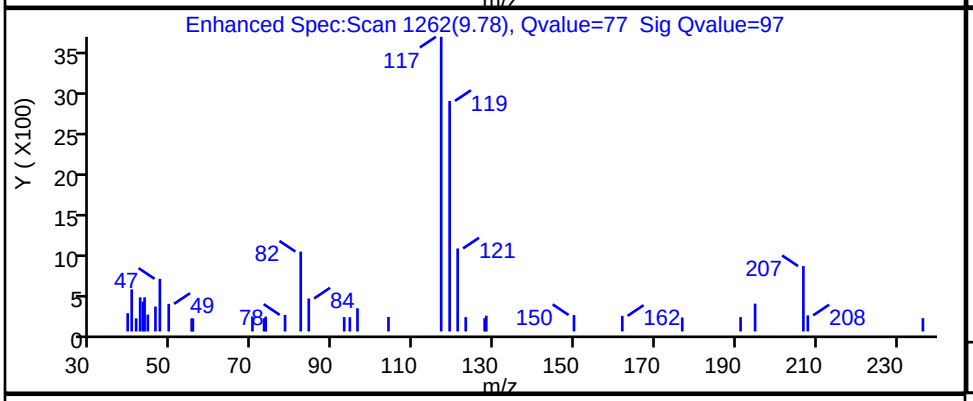
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

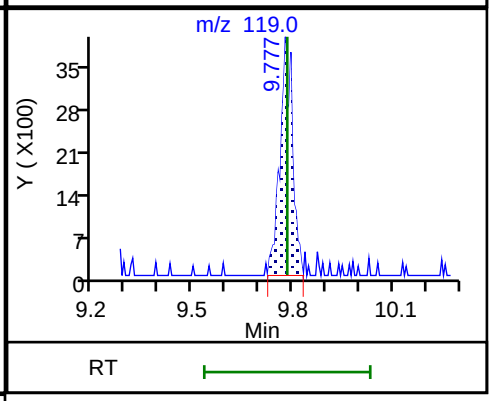
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

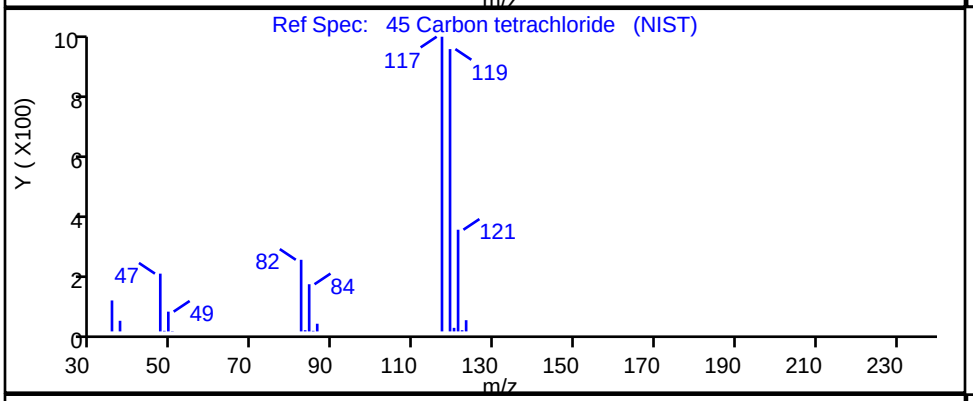
## 45 Carbon tetrachloride, CAS: 56-23-5

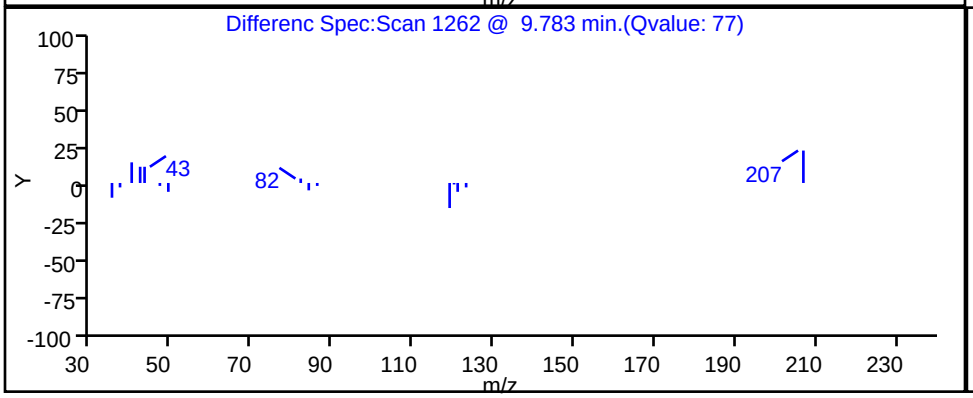


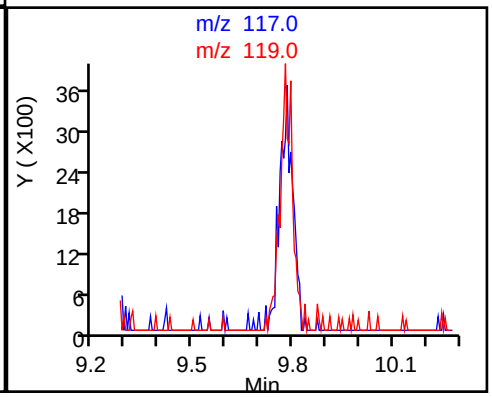



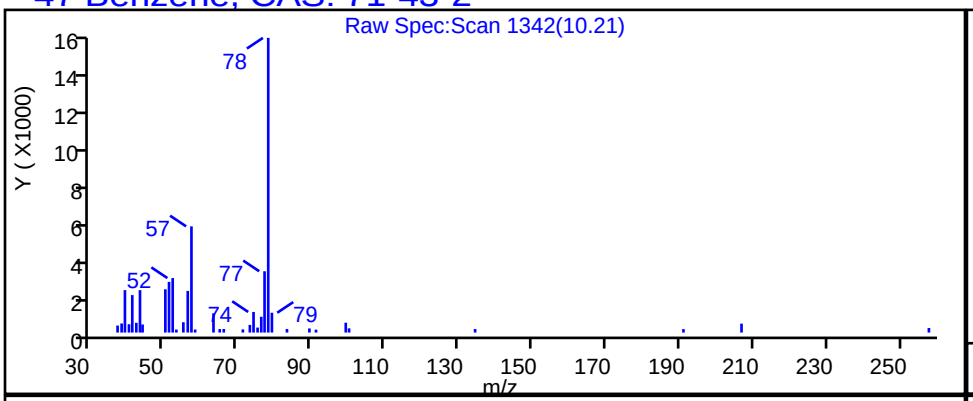
Report Date: 06-Dec-2018 17:33:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

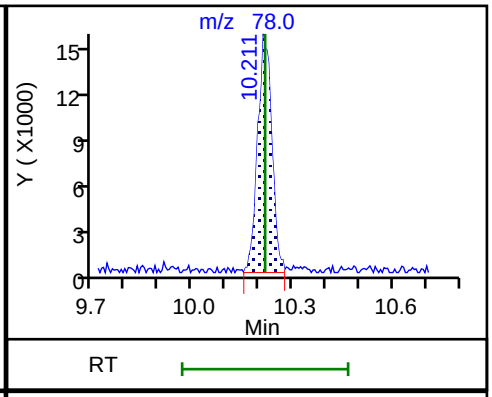
TestAmerica Burlington

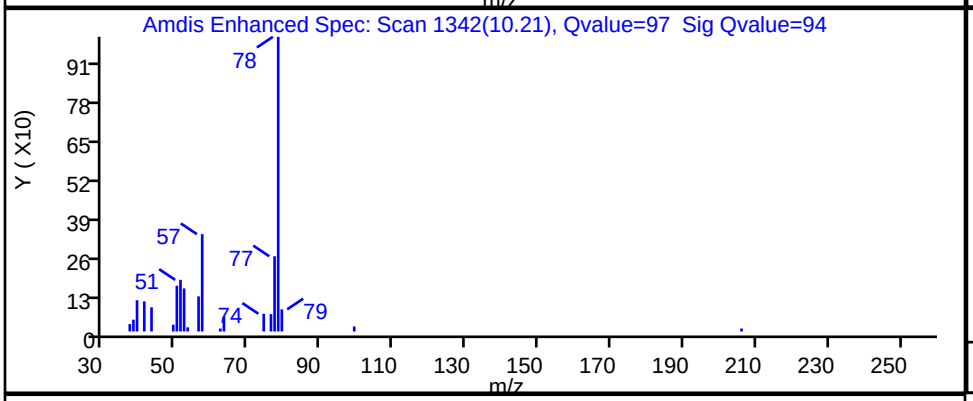
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

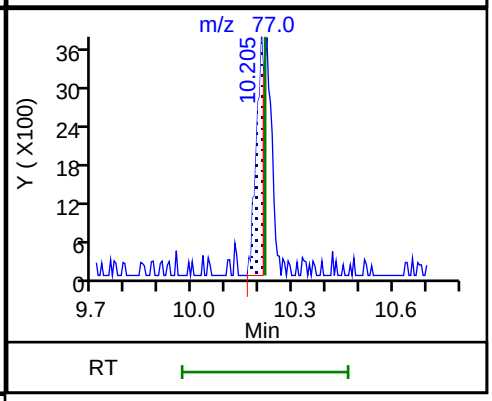
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

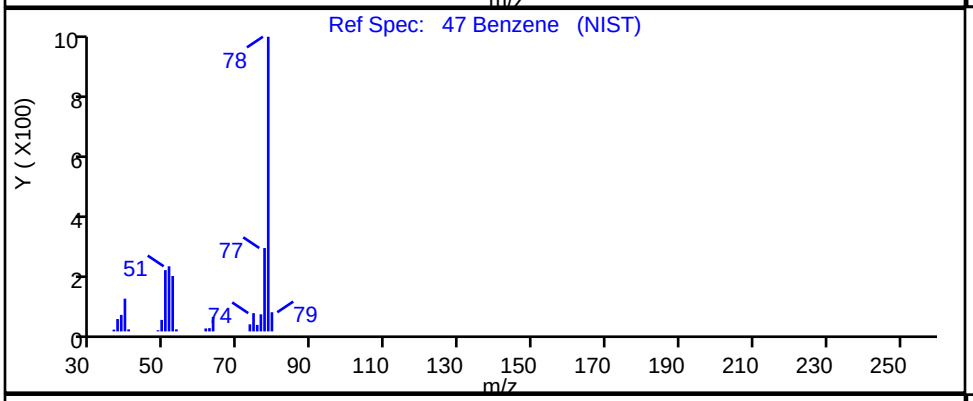
## 47 Benzene, CAS: 71-43-2

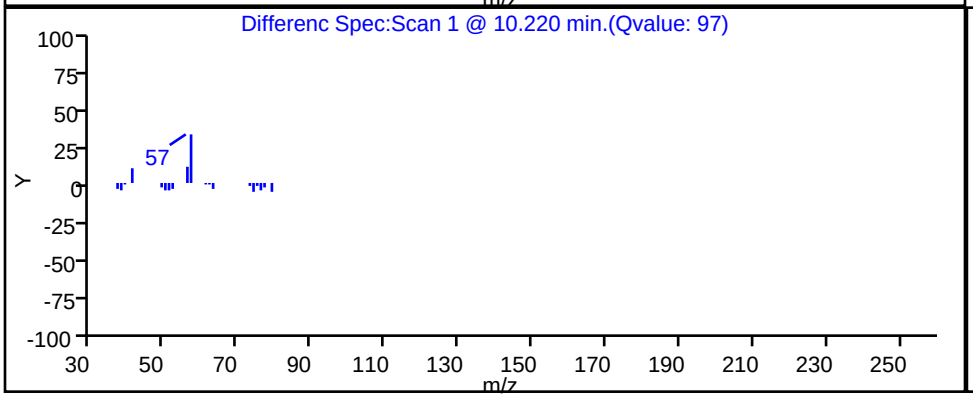


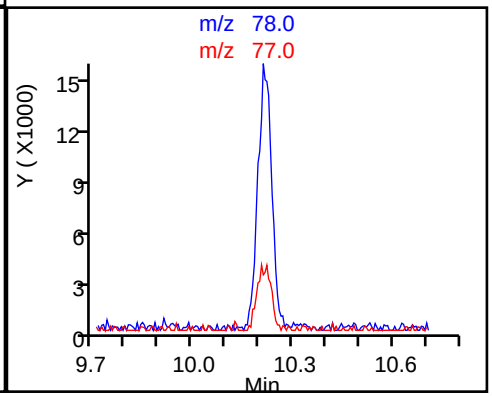



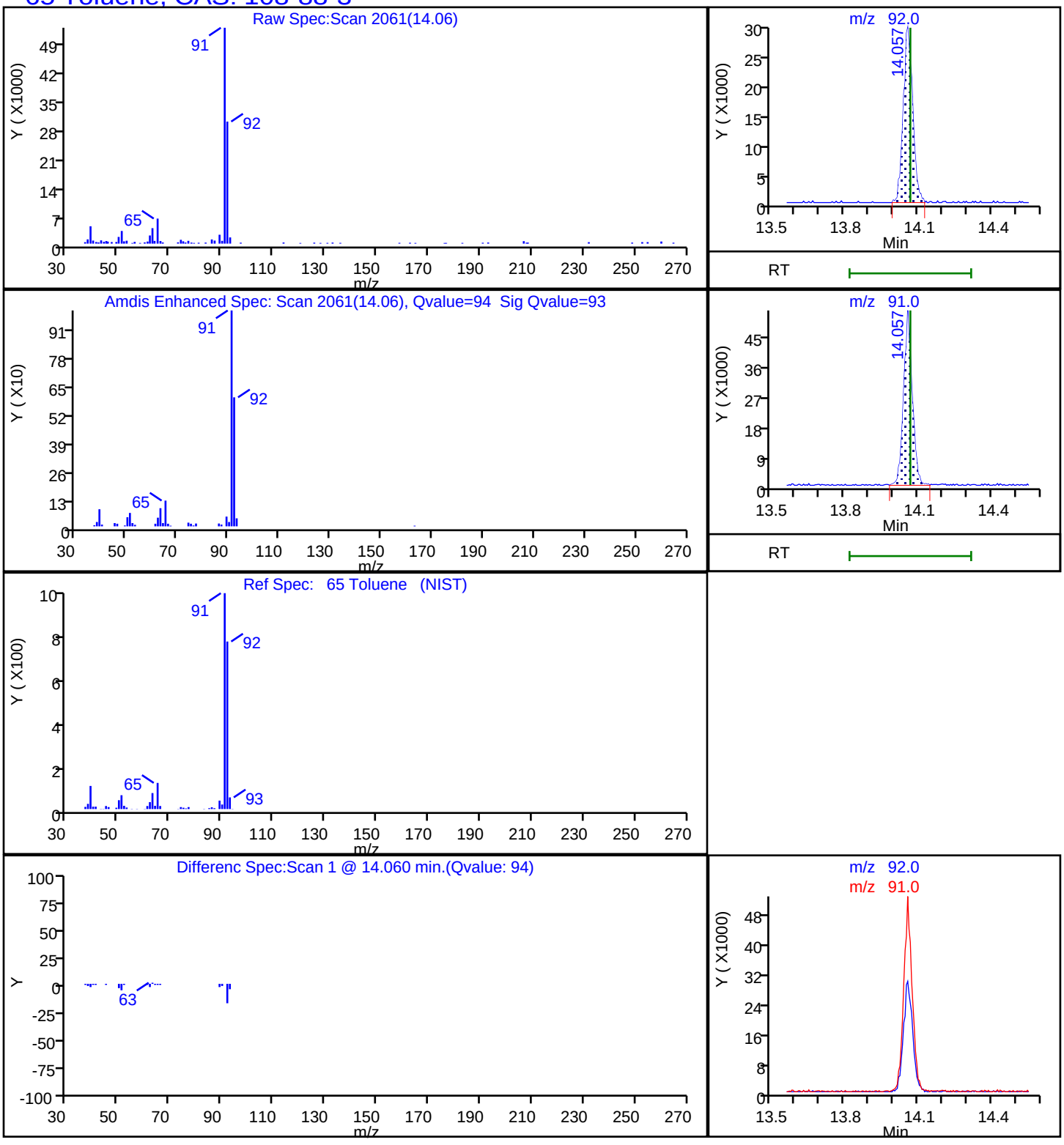
Report Date: 06-Dec-2018 17:33:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



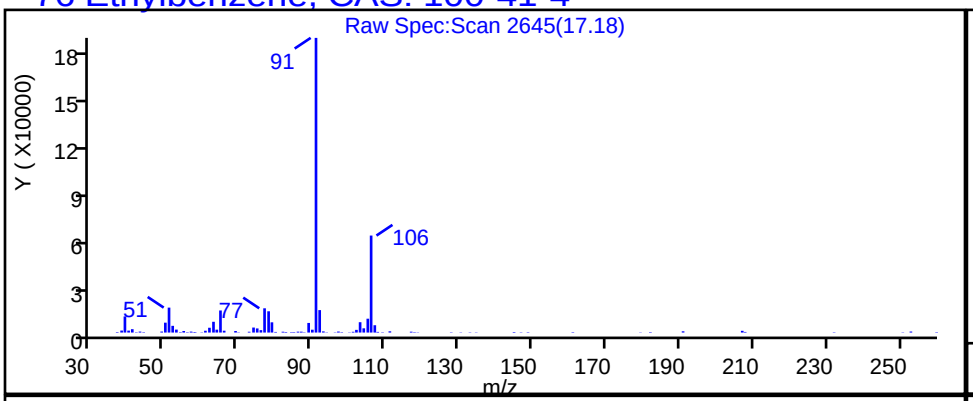
Report Date: 06-Dec-2018 17:33:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

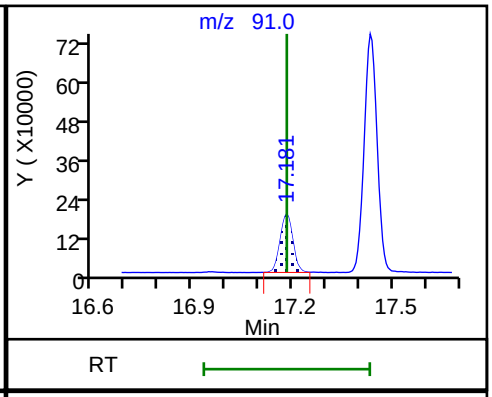
TestAmerica Burlington

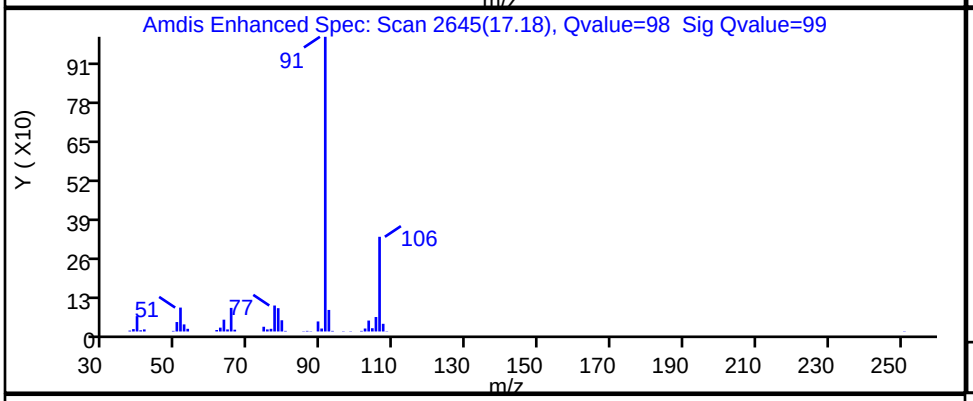
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

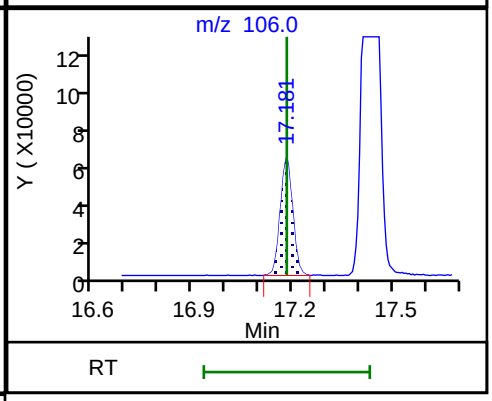
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

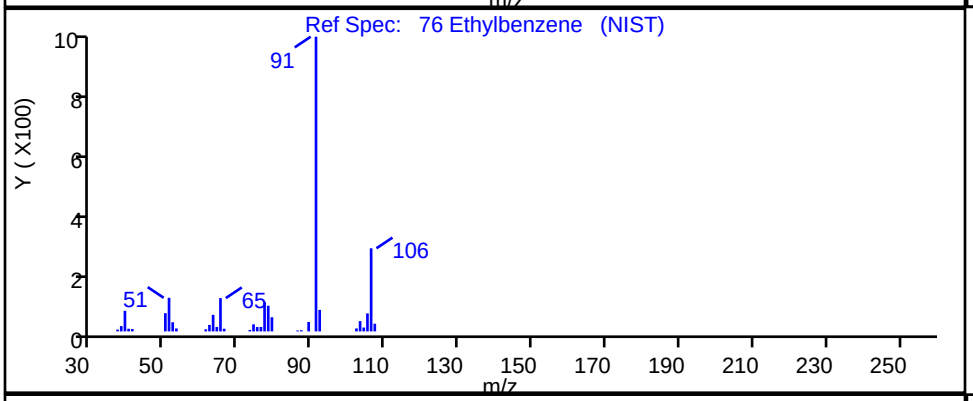
## 76 Ethylbenzene, CAS: 100-41-4

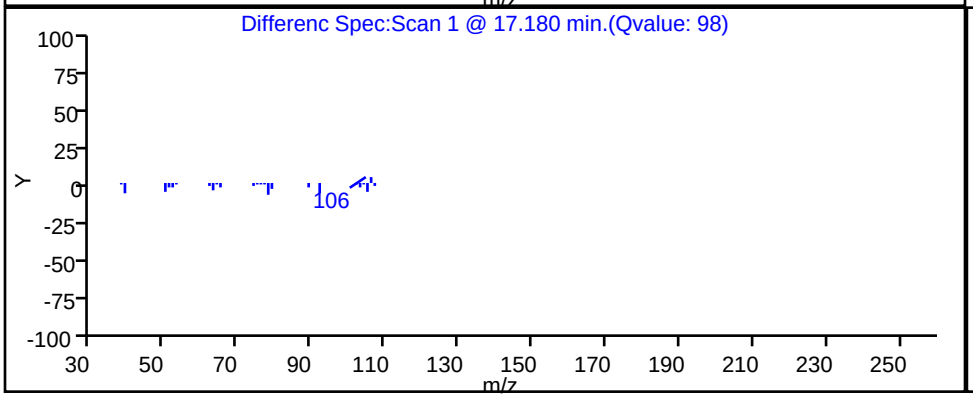


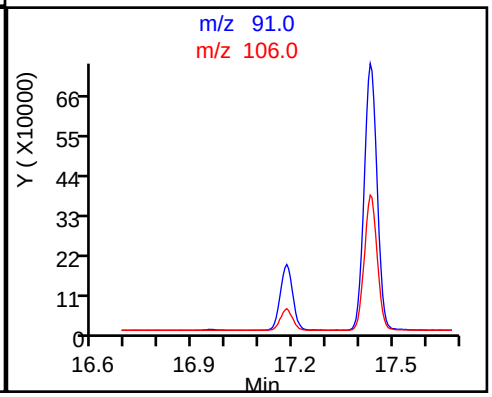



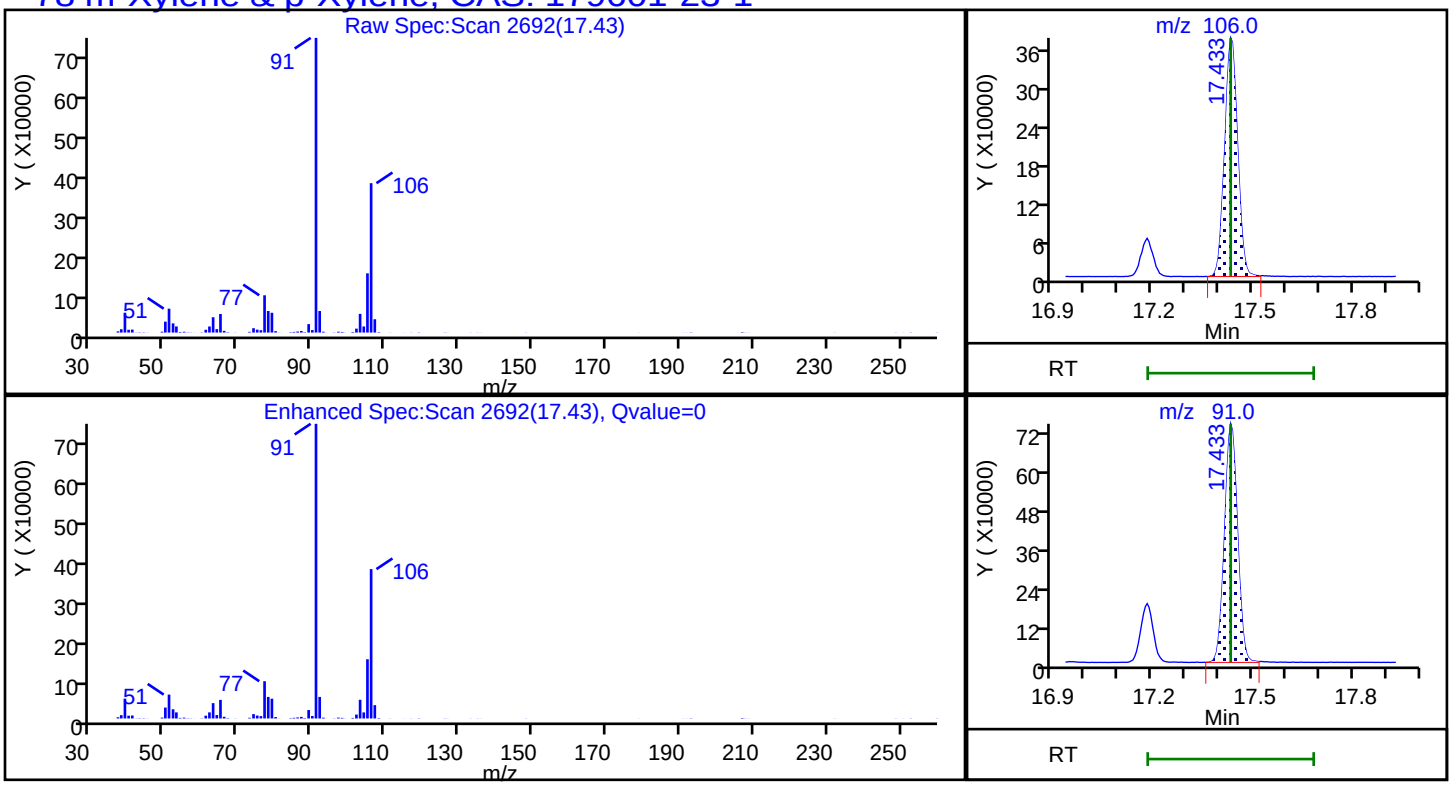



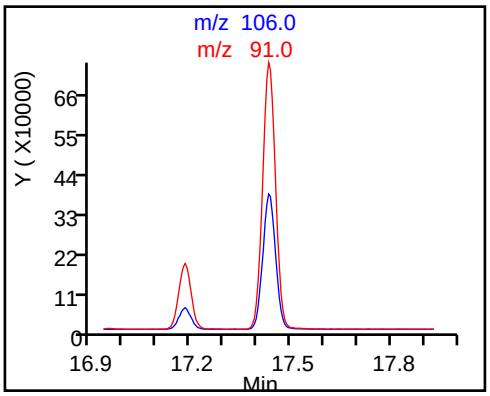
Report Date: 06-Dec-2018 17:33:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



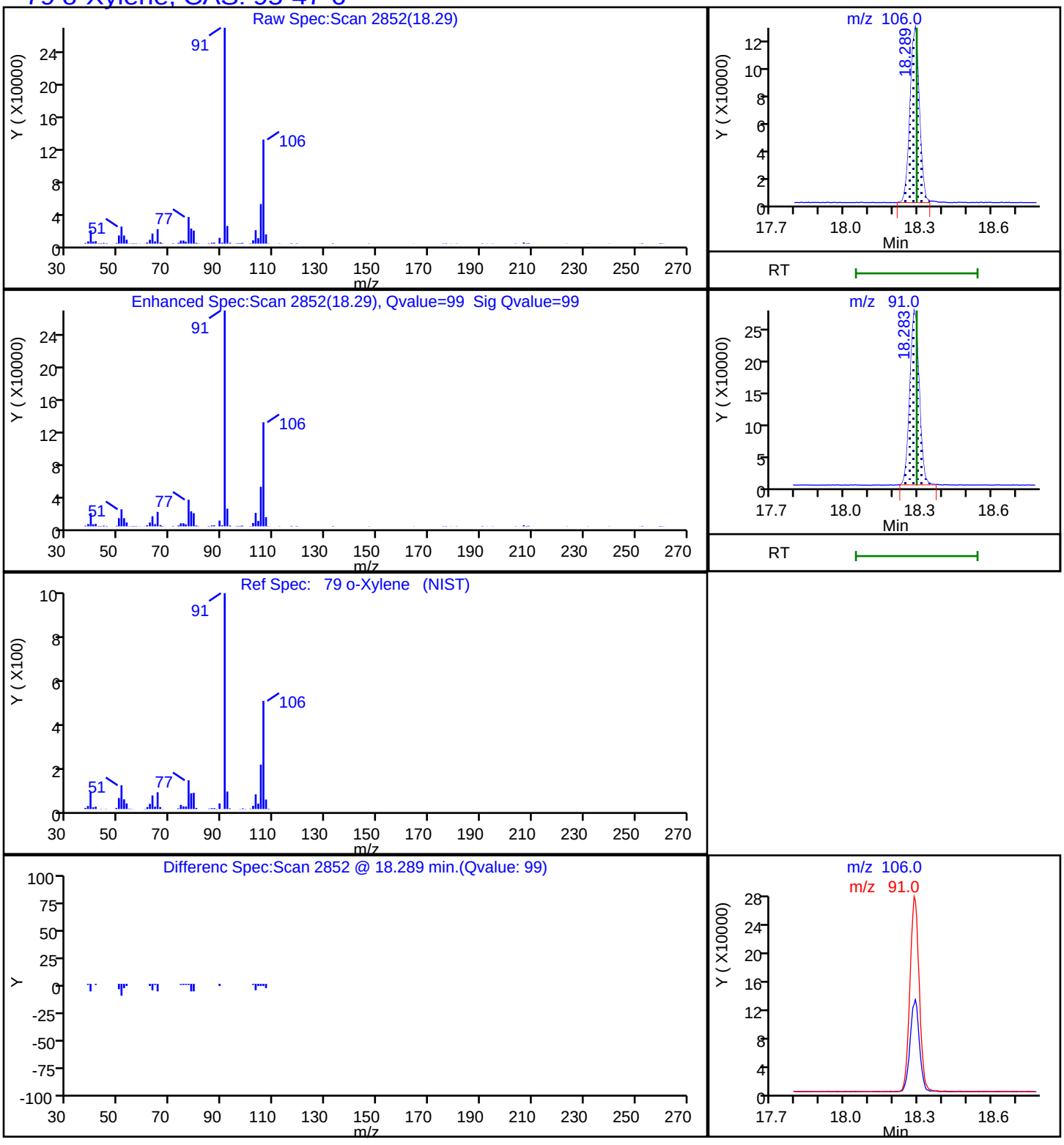
Report Date: 06-Dec-2018 17:33:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



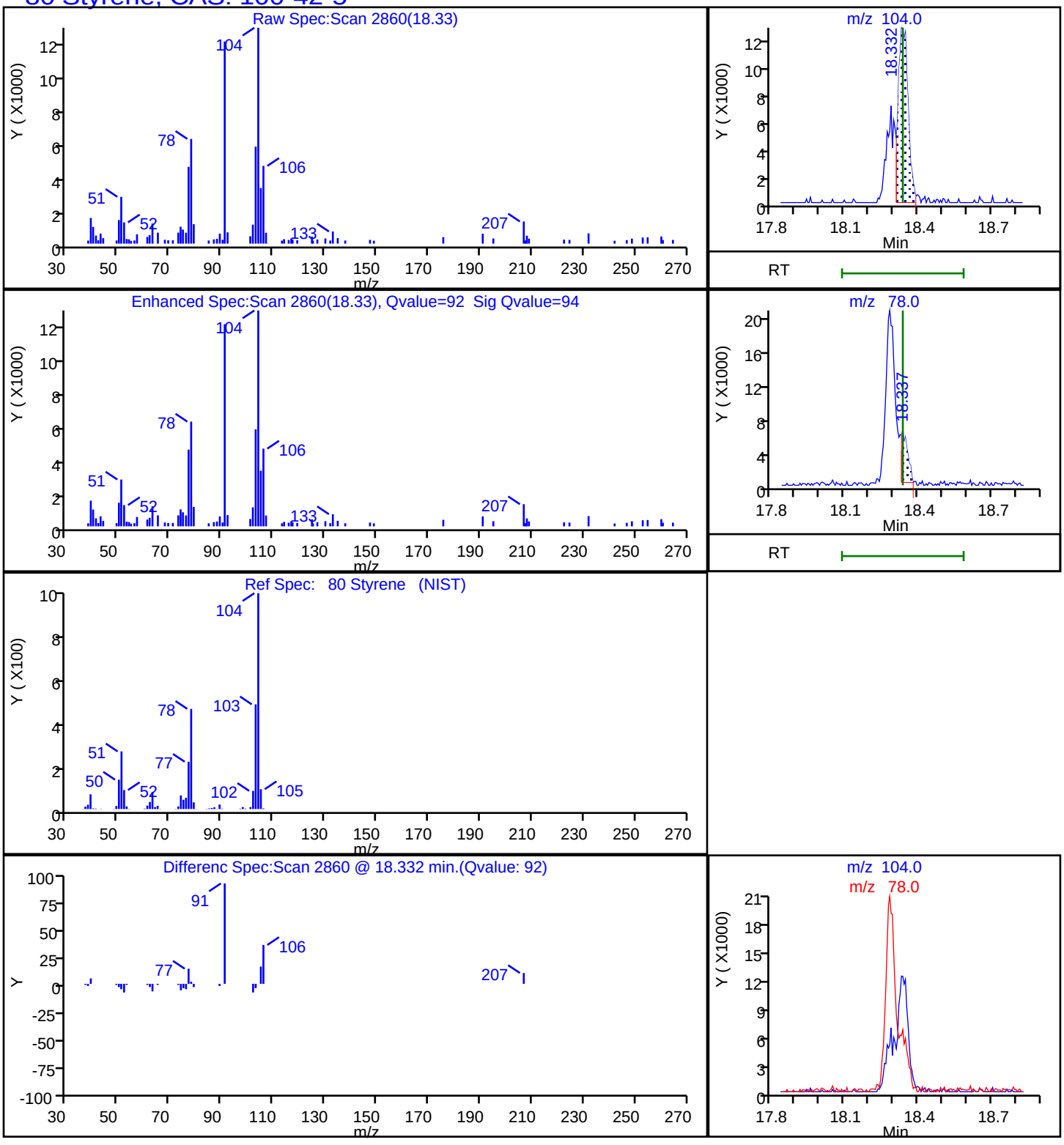
Report Date: 06-Dec-2018 17:33:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5



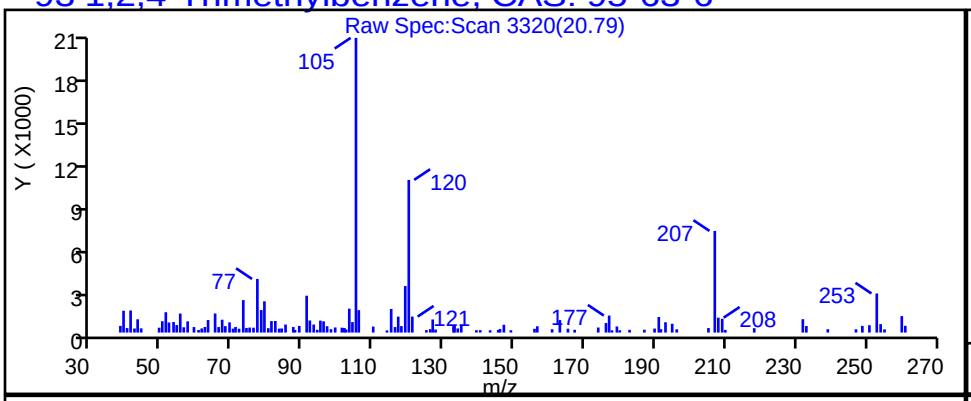
Report Date: 06-Dec-2018 17:33:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

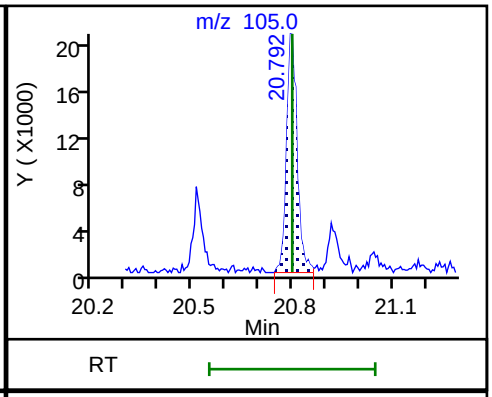
TestAmerica Burlington

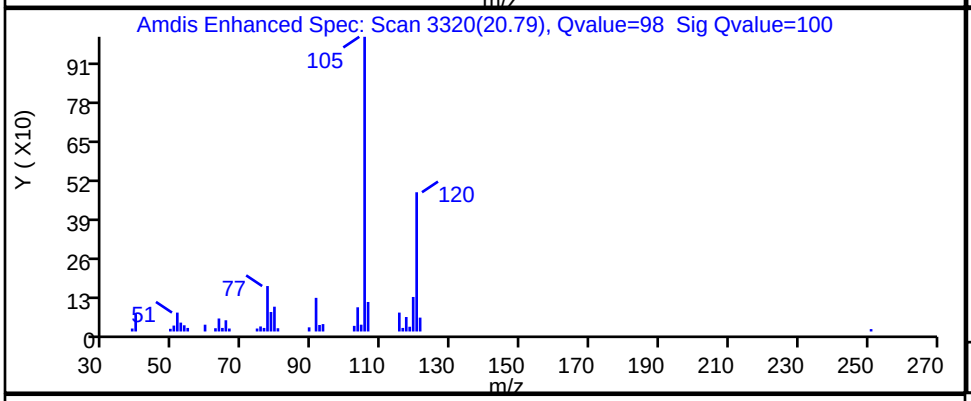
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

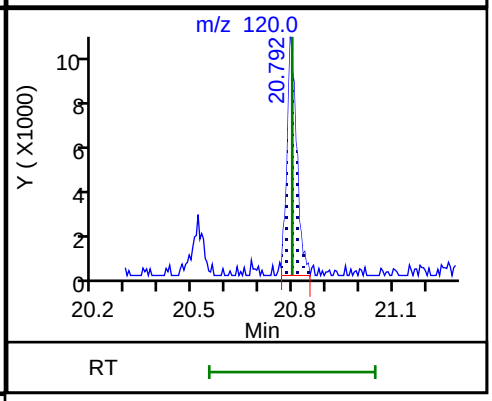
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

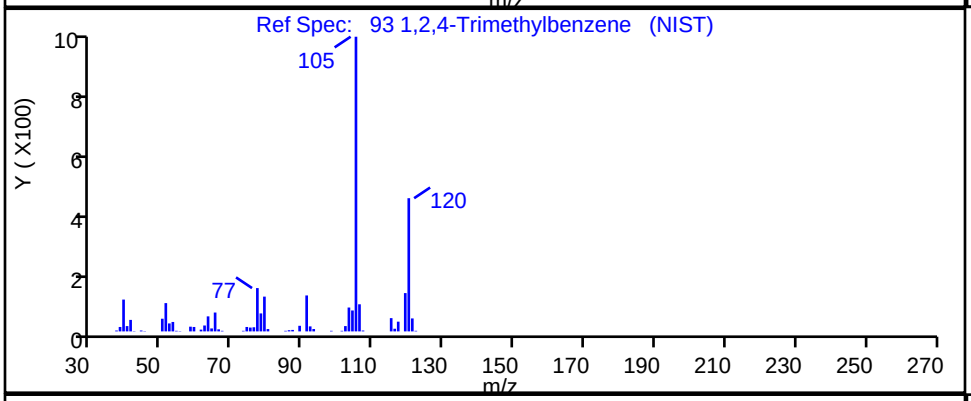
## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

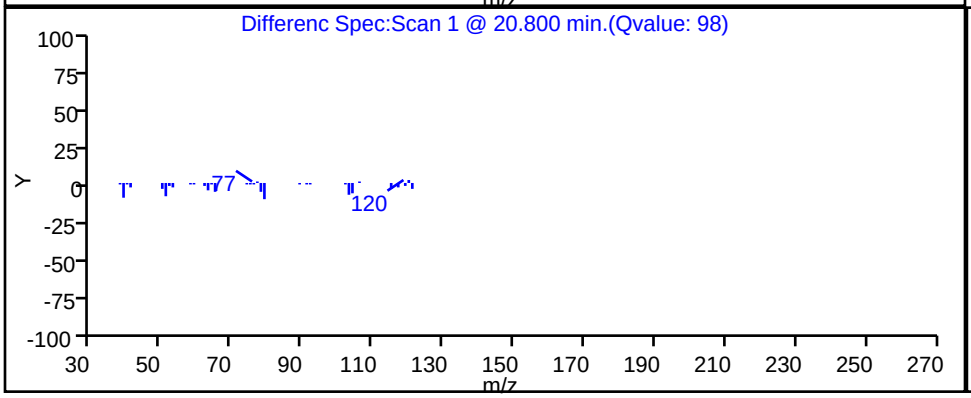


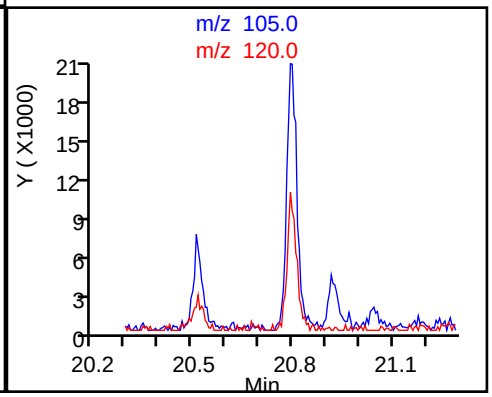



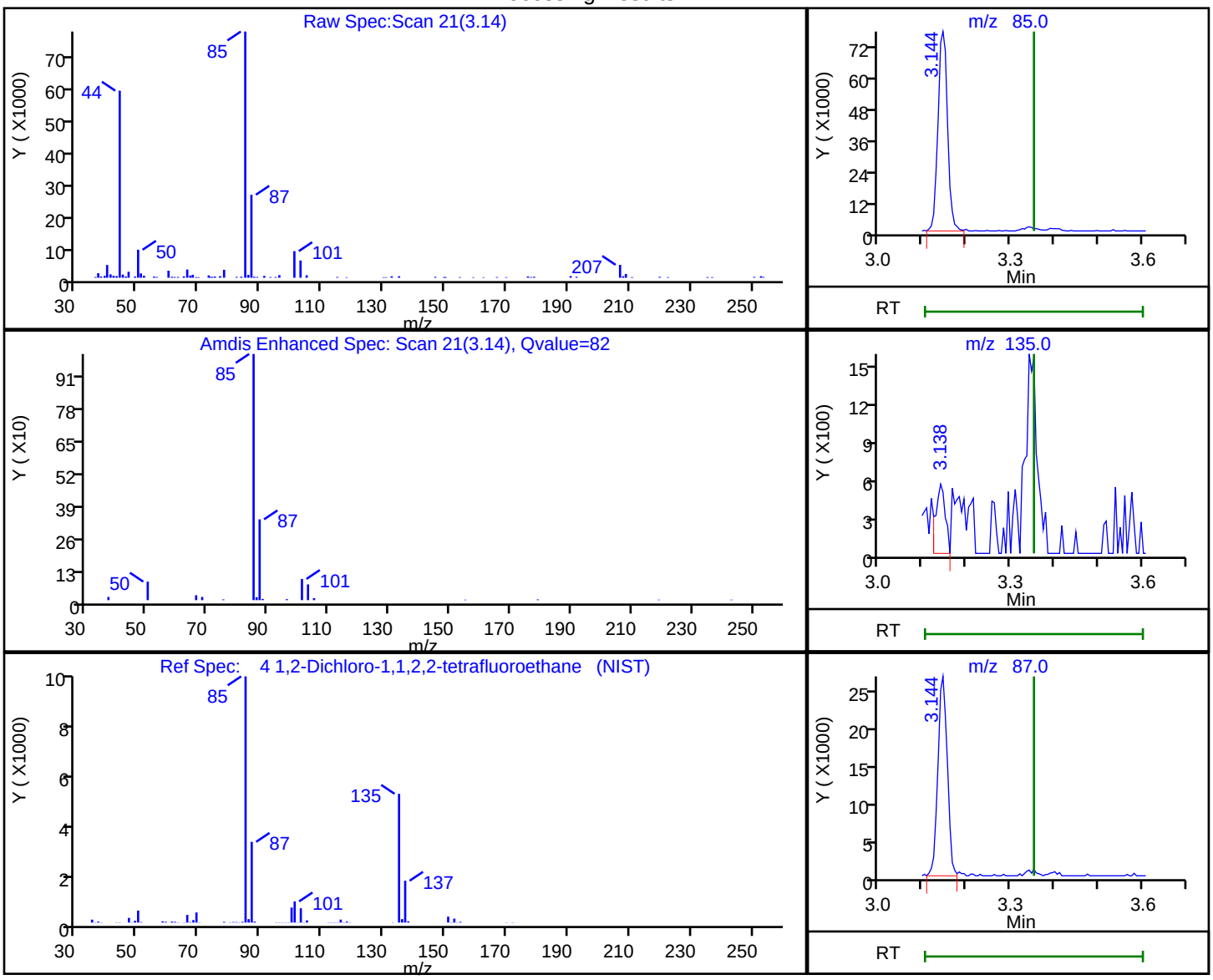
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.14 | 85.00 | 118319 | 0.709395 |
| 3.14 | 135.00 | 794 | |
| 3.14 | 87.00 | 39243 | |

Reviewer: bunmaa, 06-Dec-2018 17:16:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

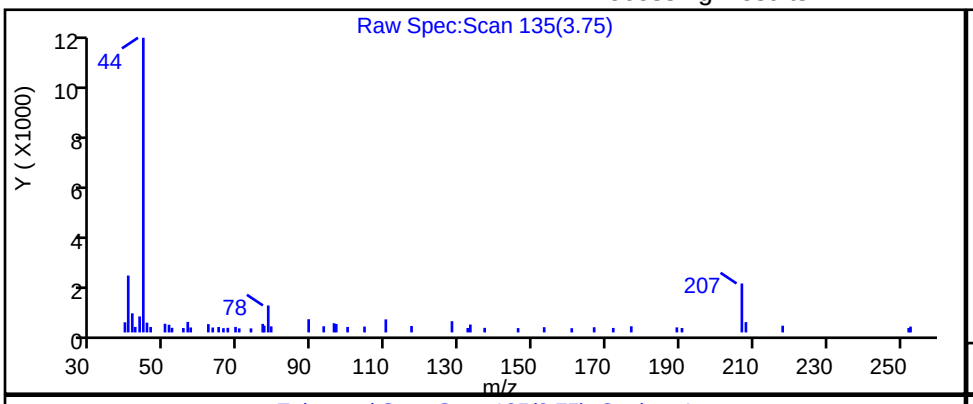
User Disabled Compound Report

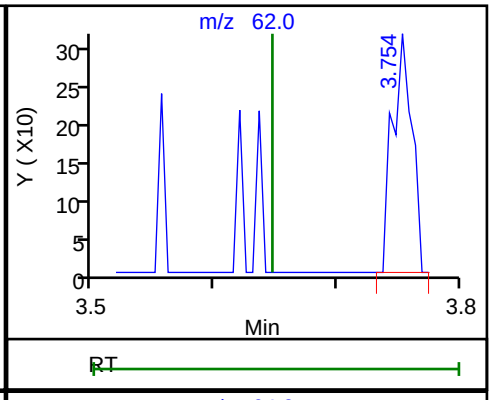
TestAmerica Burlington

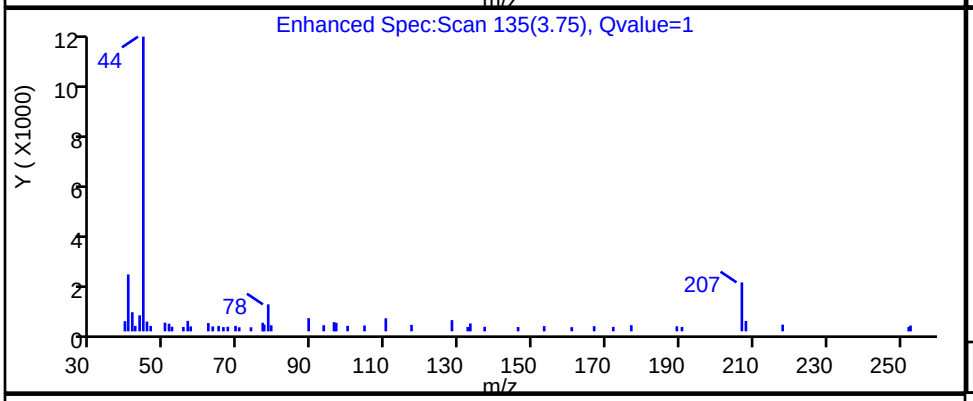
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

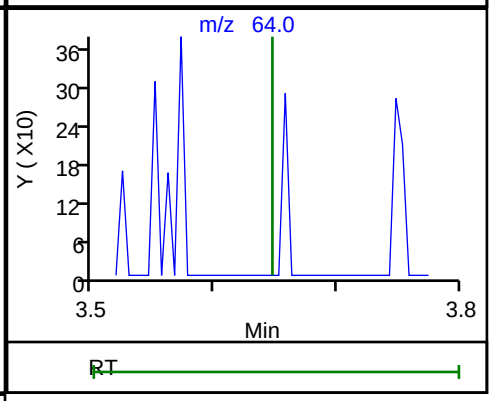
## 7 Vinyl chloride, CAS: 75-01-4

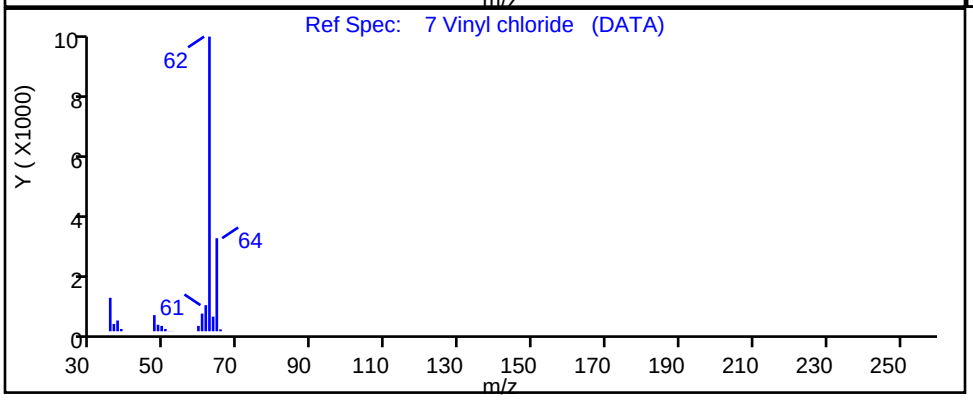
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.75 | 62.00 | 353 | 0.006800 |
| 3.65 | 64.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:16:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

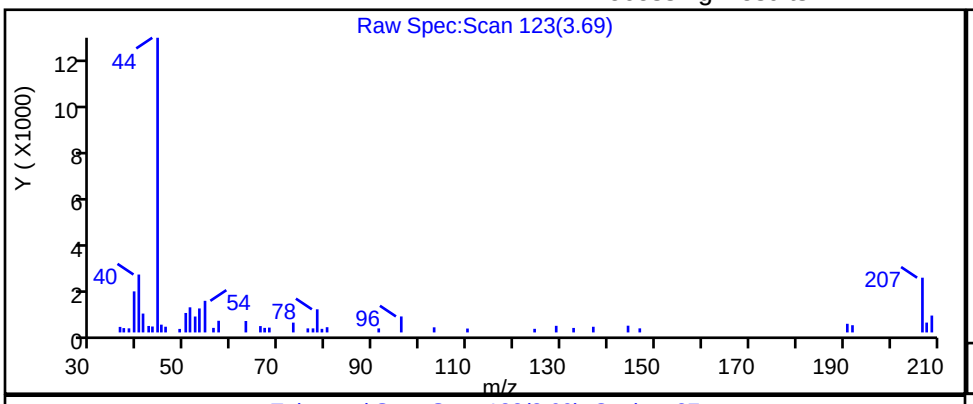
User Disabled Compound Report

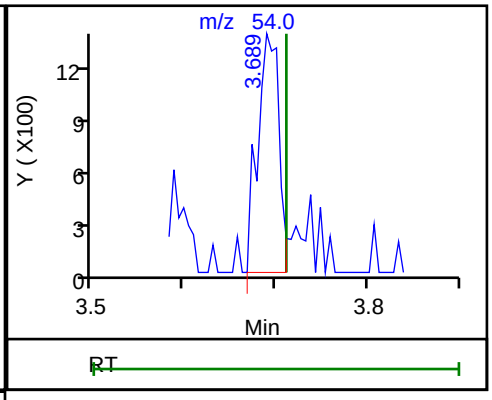
TestAmerica Burlington

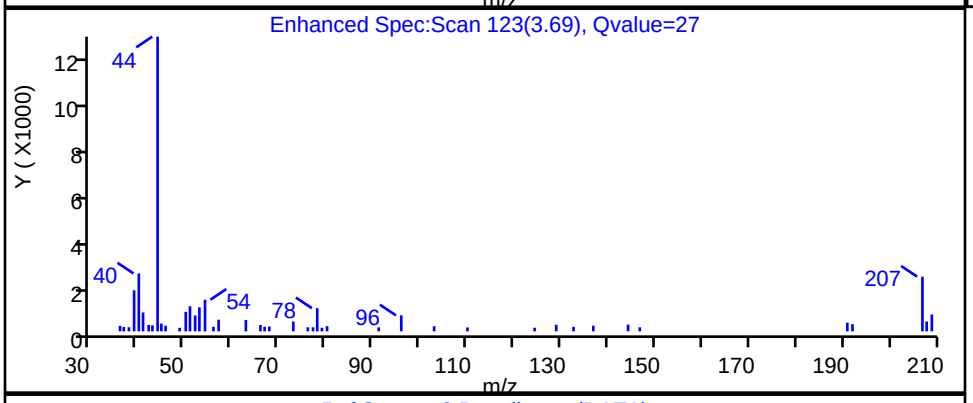
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

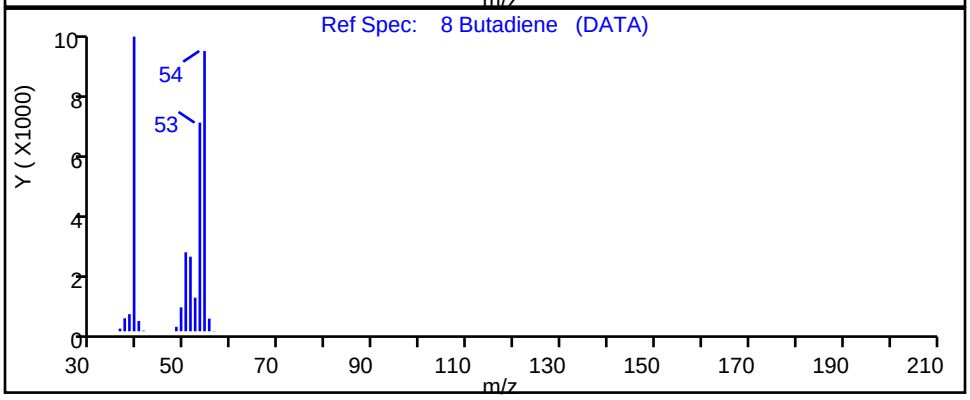
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.69 | 54.00 | 2193 | 0.067903 |

Reviewer: bunmaa, 06-Dec-2018 17:16:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

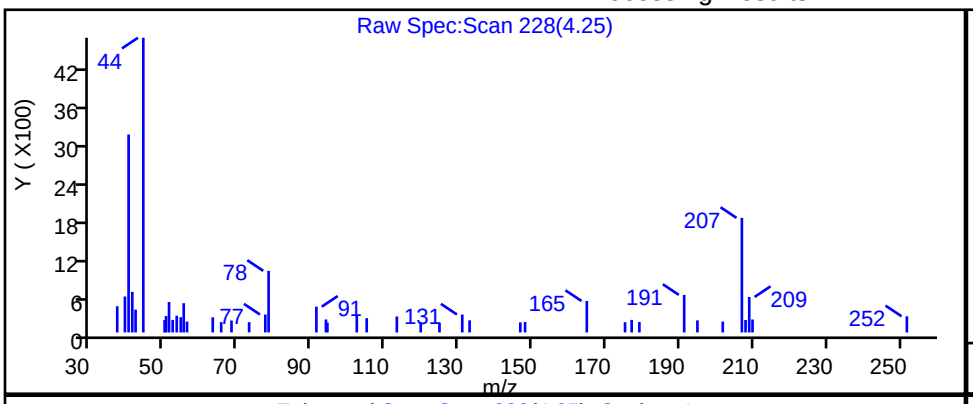
User Disabled Compound Report

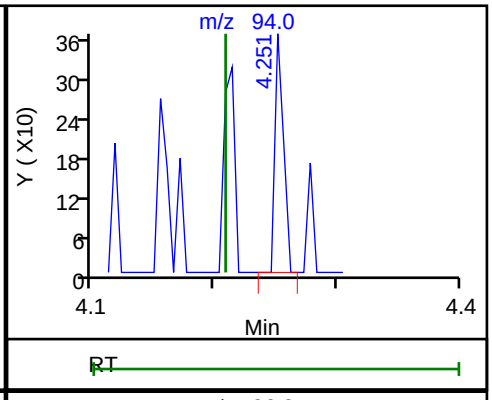
TestAmerica Burlington

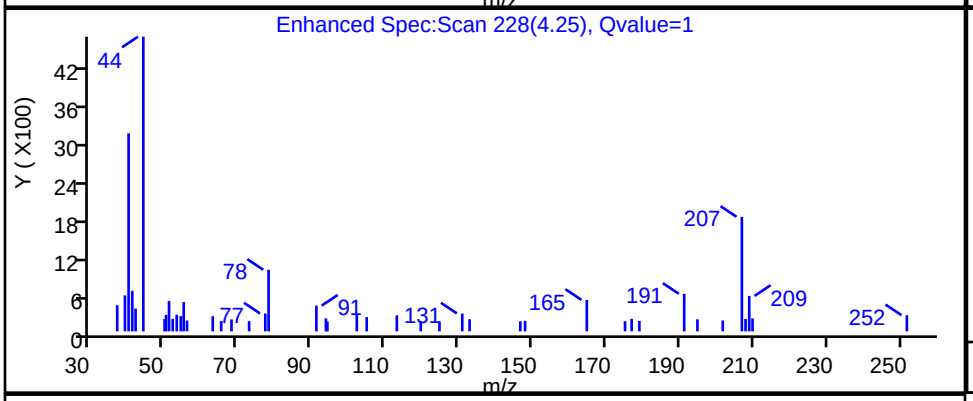
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

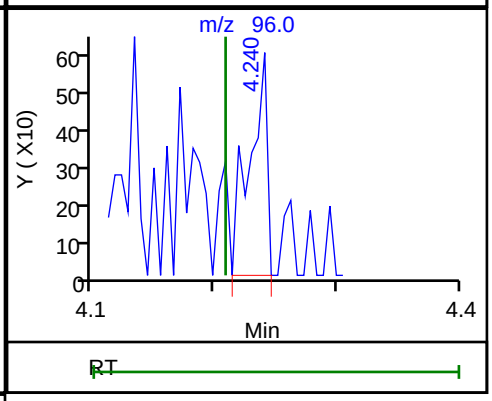
## 10 Bromomethane, CAS: 74-83-9

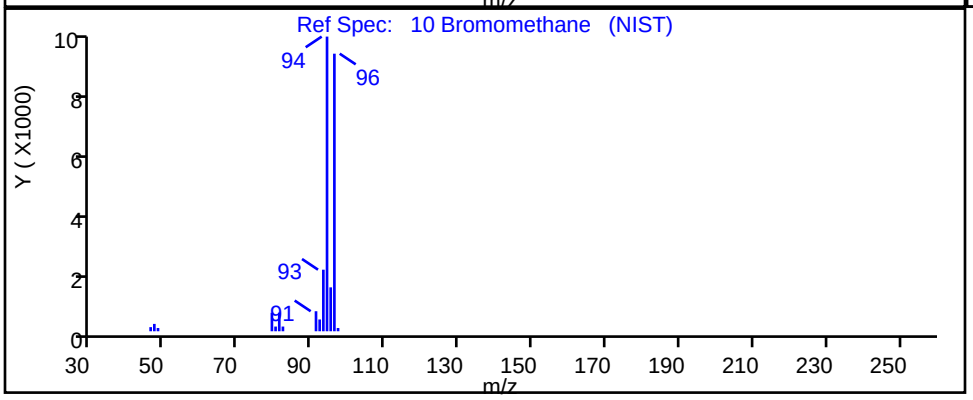
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.25 | 94.00 | 175 | 0.002920 |
| 4.24 | 96.00 | 599 | |

Reviewer: bunmaa, 06-Dec-2018 17:16:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

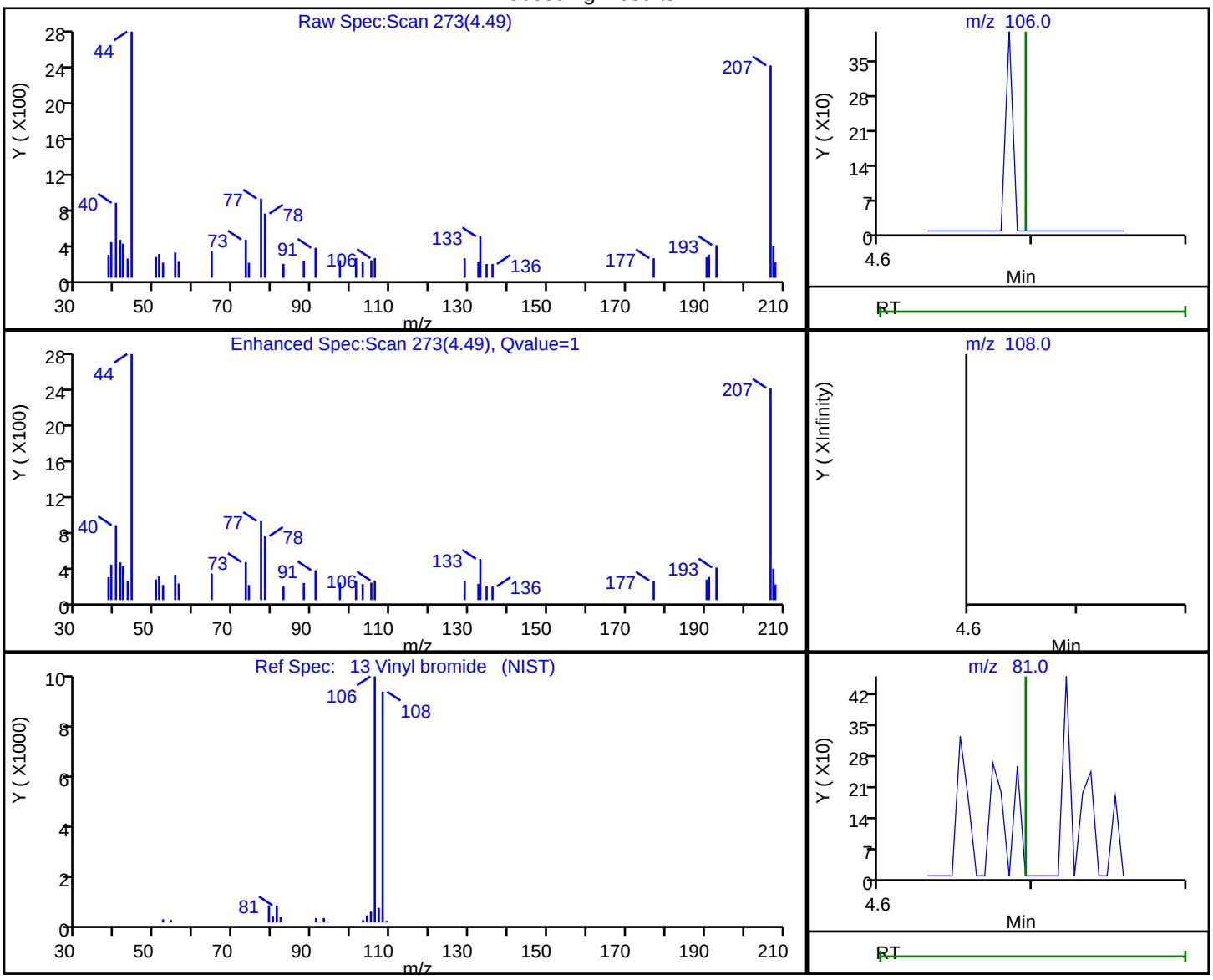
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.49 | 106.00 | 120 | 0.002025 |
| 4.70 | 108.00 | 0 | |
| 4.70 | 81.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:16:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

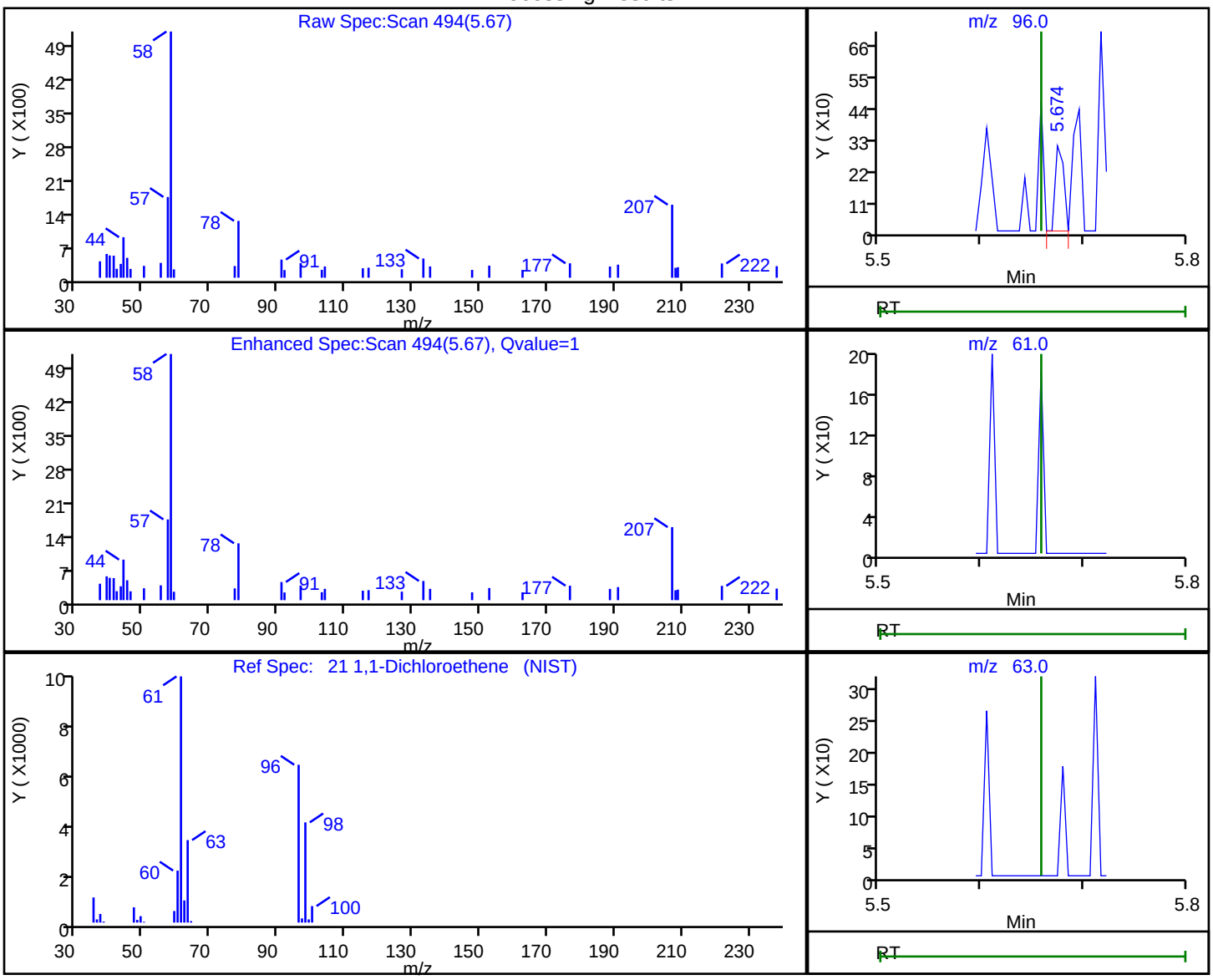
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.67 | 96.00 | 175 | 0.003223 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:17:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

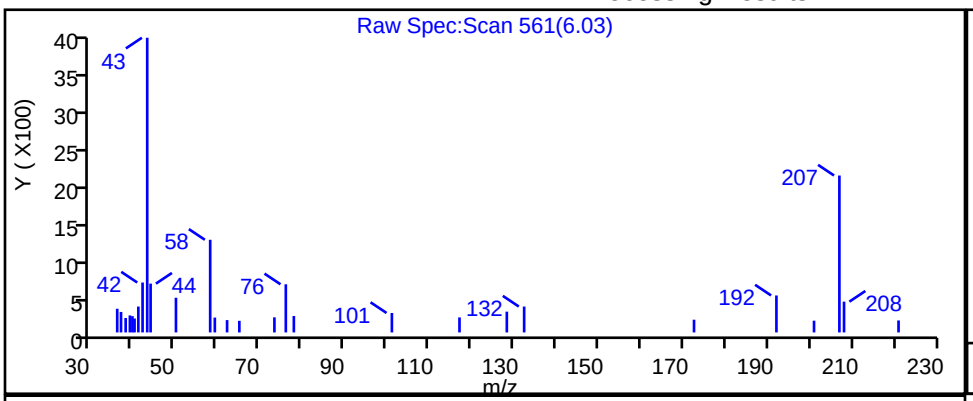
User Disabled Compound Report

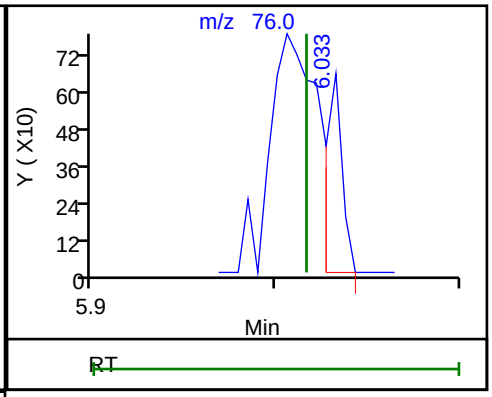
TestAmerica Burlington

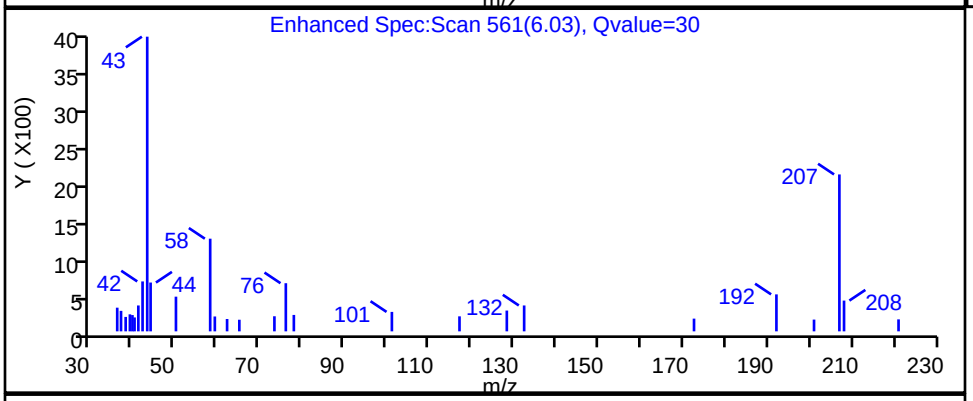
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

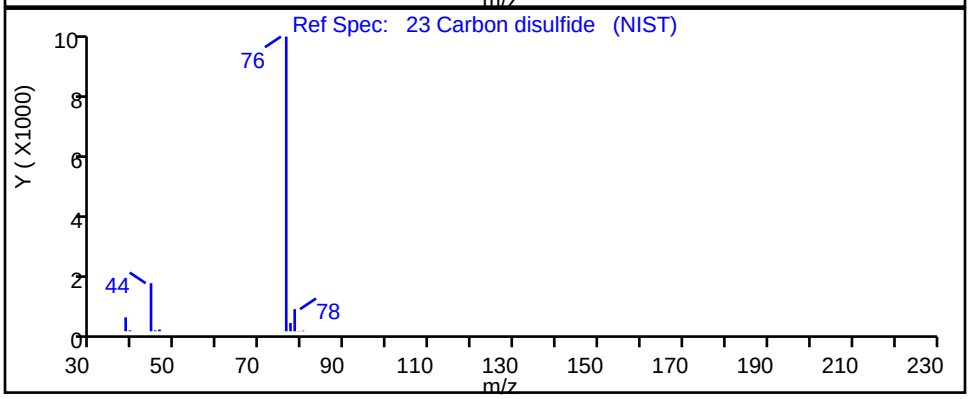
## 23 Carbon disulfide, CAS: 75-15-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.03 | 76.00 | 400 | 0.002864 |

Reviewer: bunmaa, 06-Dec-2018 17:17:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

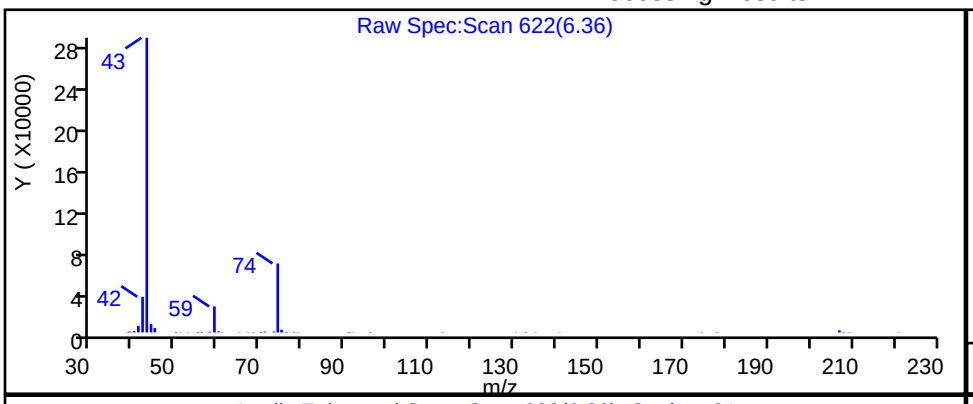
User Disabled Compound Report

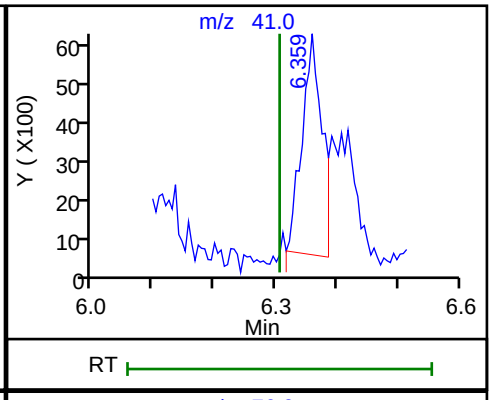
TestAmerica Burlington

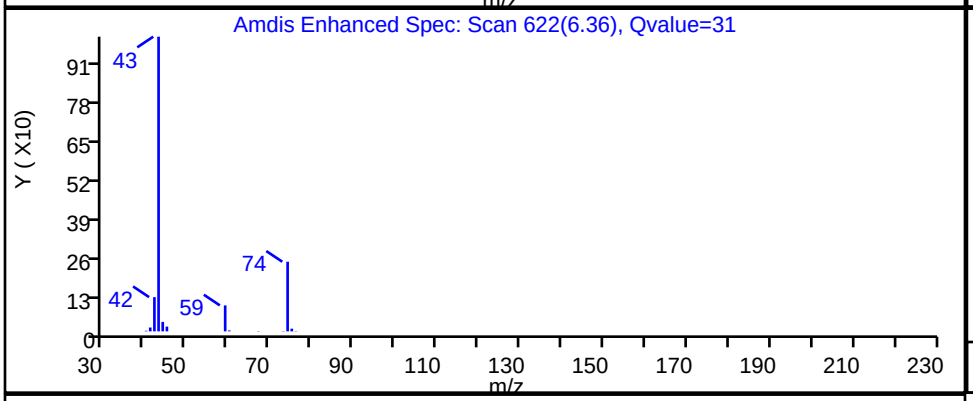
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

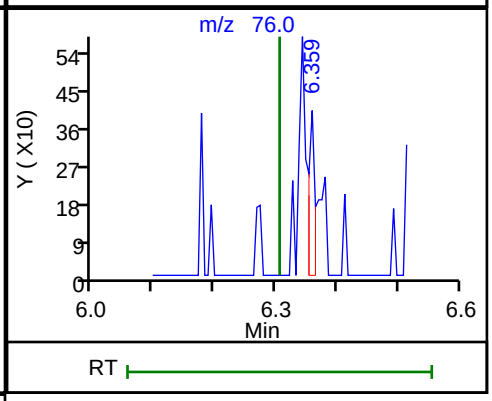
## 25 3-Chloro-1-propene, CAS: 107-05-1

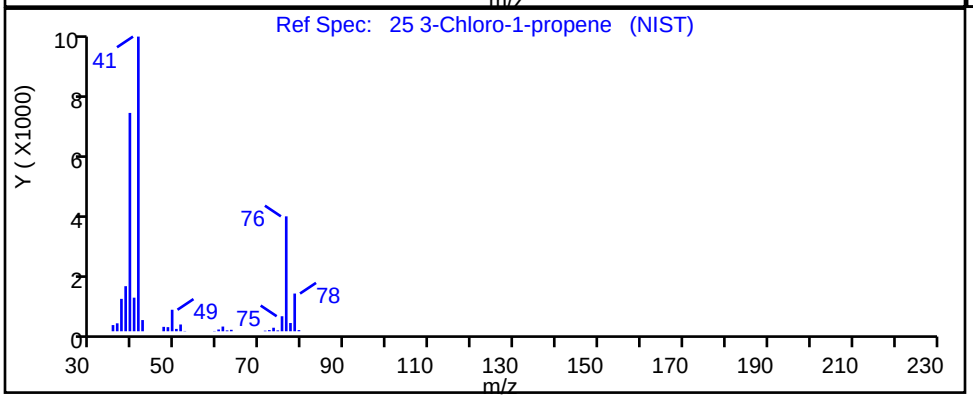
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.36 | 41.00 | 13283 | 0.328773 |
| 6.36 | 76.00 | 257 | |

Reviewer: bunmaa, 06-Dec-2018 17:17:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

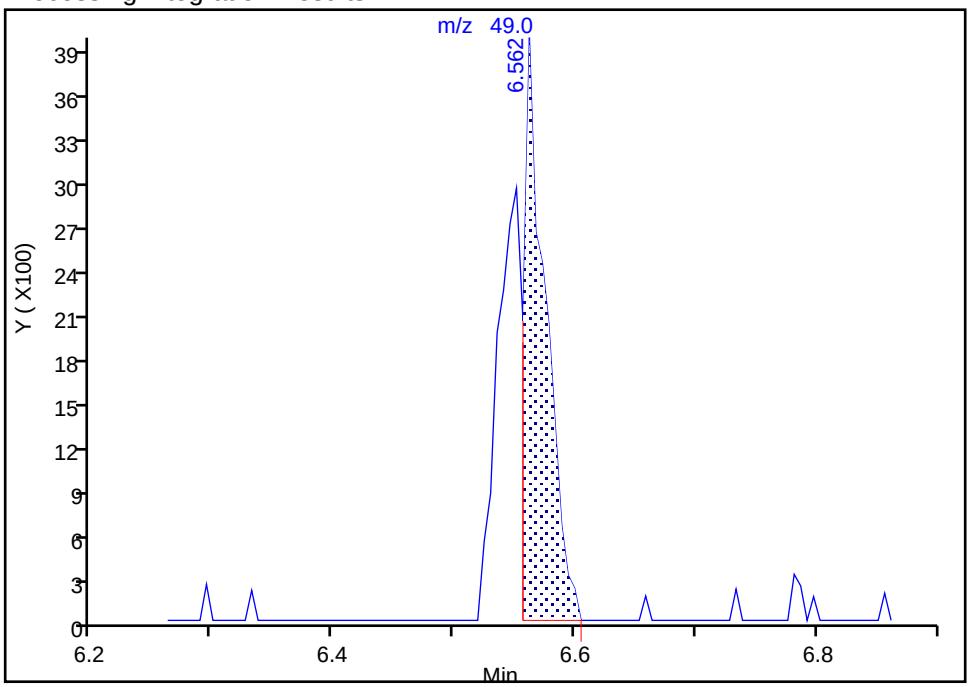
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

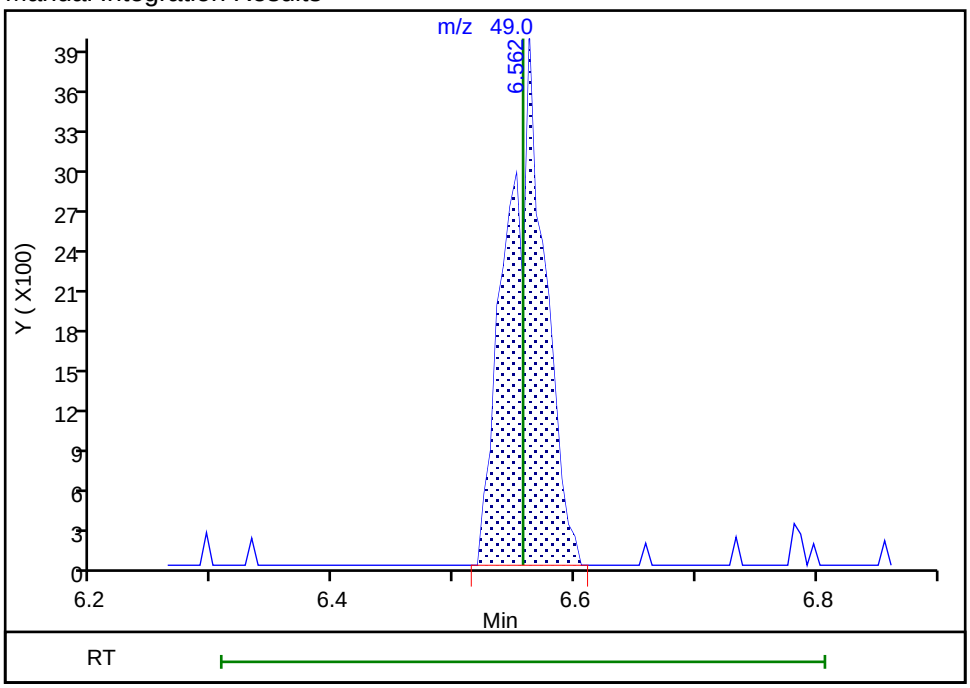
Processing Integration Results

RT: 6.56
Area: 4955
Amount: 0.101103
Amount Units: ppb v/v




Manual Integration Results

RT: 6.56
Area: 8528
Amount: 0.174008
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:17:50

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

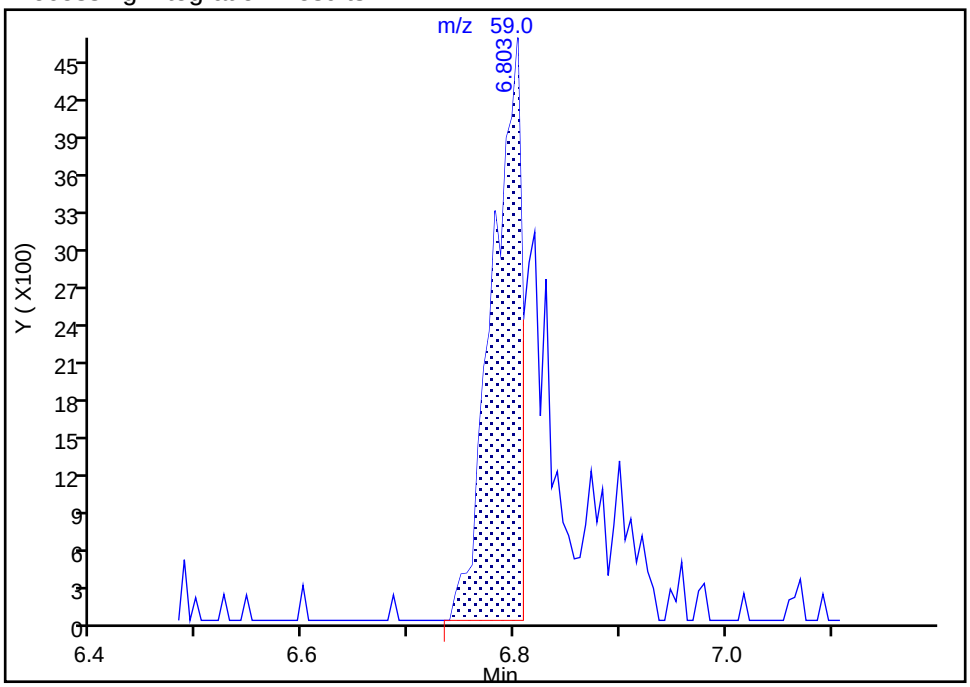
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

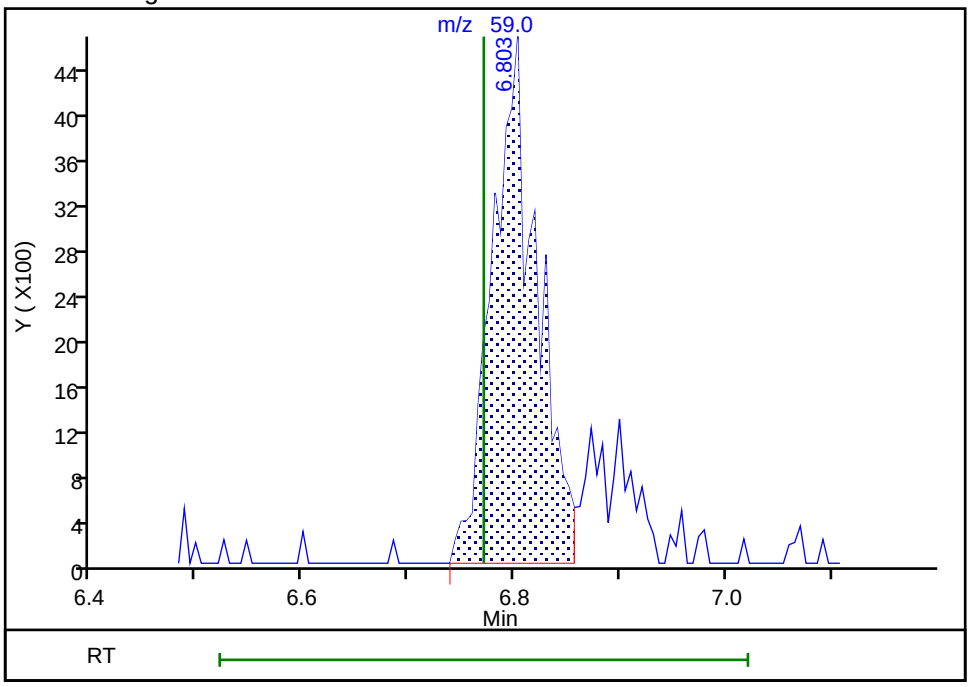
Processing Integration Results

RT: 6.80
Area: 9063
Amount: 0.115993
Amount Units: ppb v/v




Manual Integration Results

RT: 6.80
Area: 13729
Amount: 0.175710
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:18:22

Audit Action: Manually Integrated Audit Reason: Assign Peak

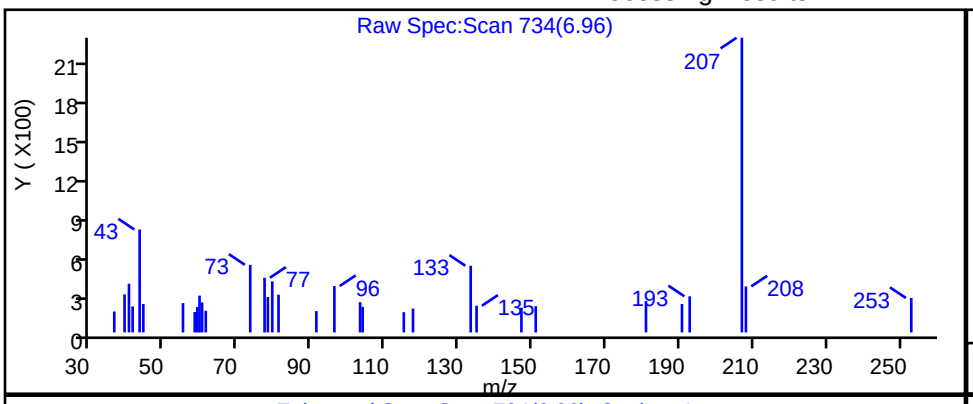
User Disabled Compound Report

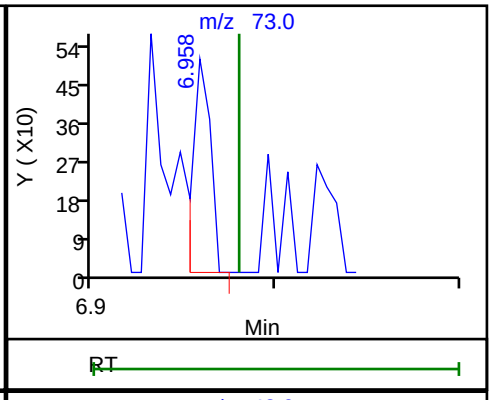
TestAmerica Burlington

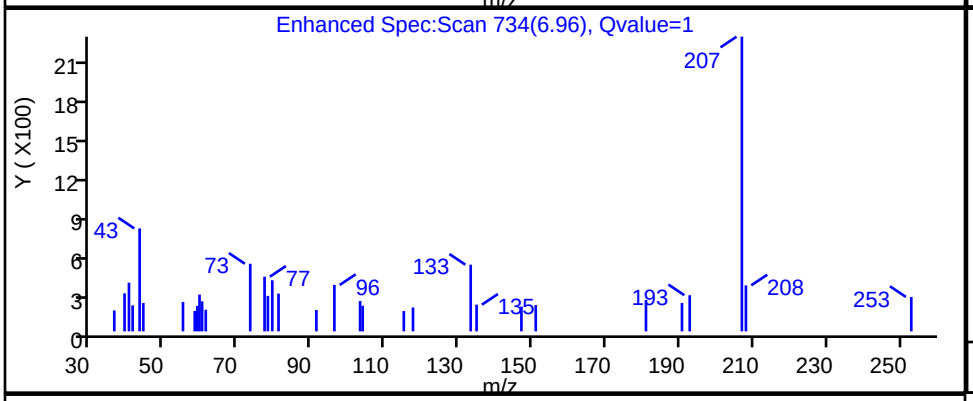
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

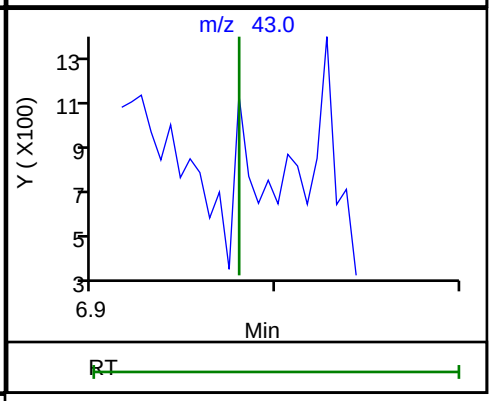
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

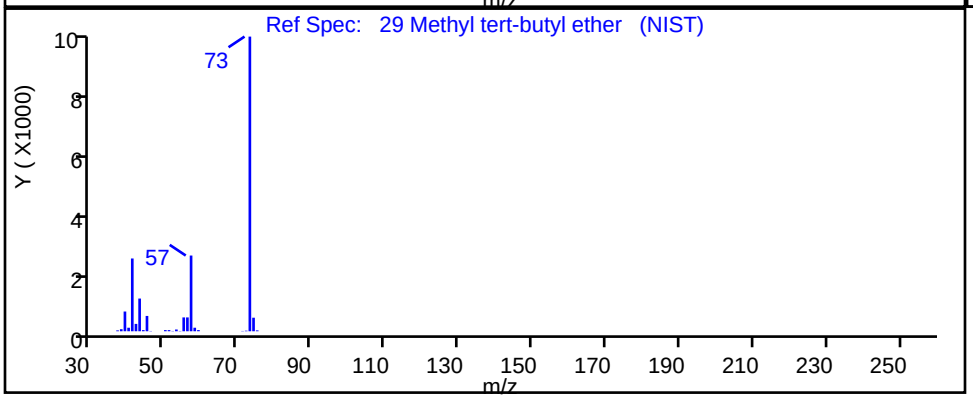
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.96 | 73.00 | 336 | 0.003183 |
| 6.98 | 43.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:18:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

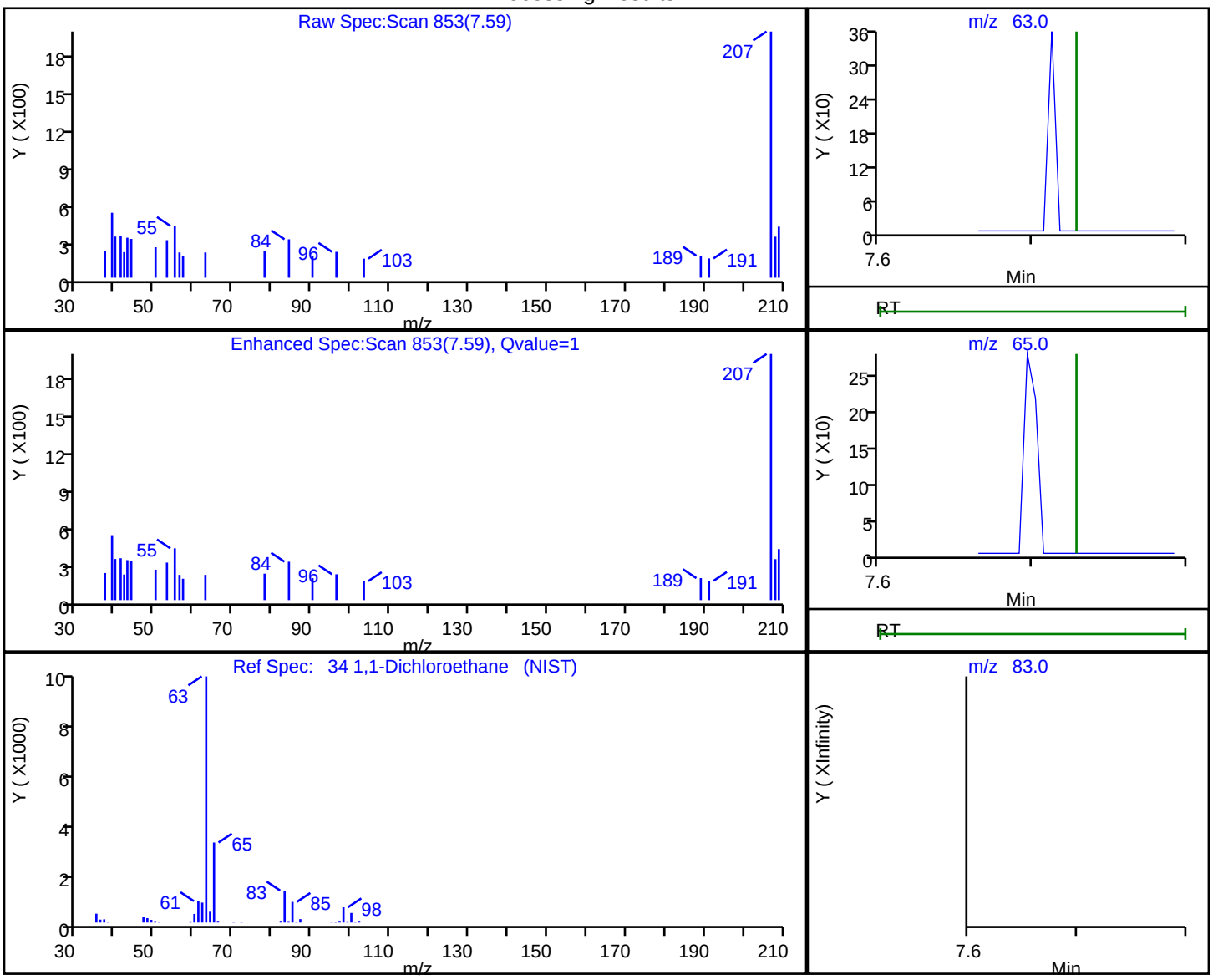
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.59 | 63.00 | 115 | 0.001354 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:18:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

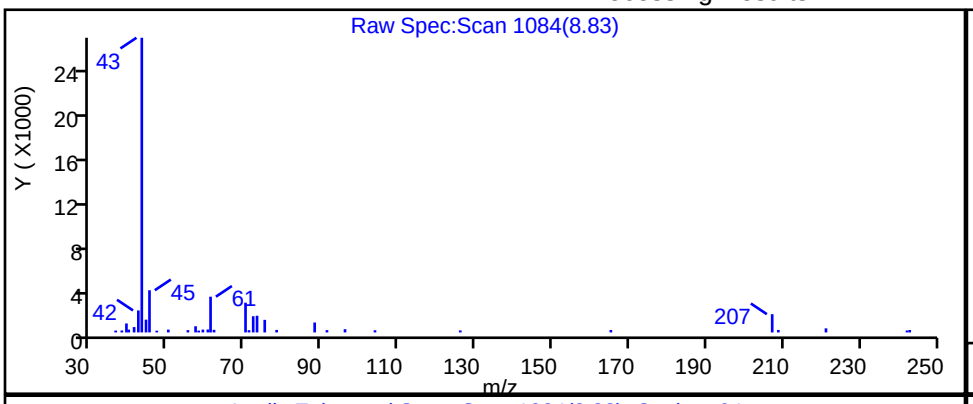
User Disabled Compound Report

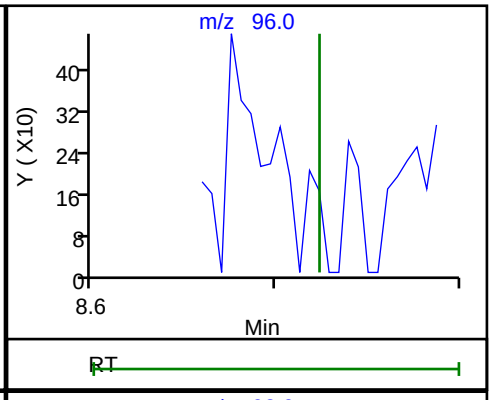
TestAmerica Burlington

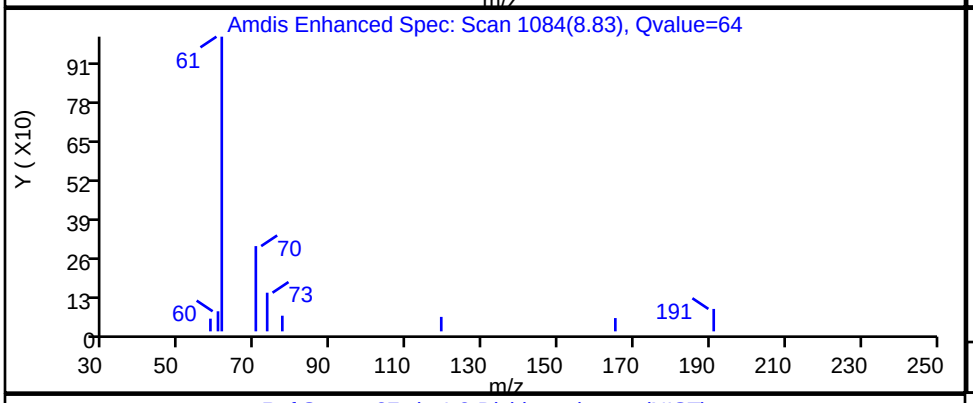
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

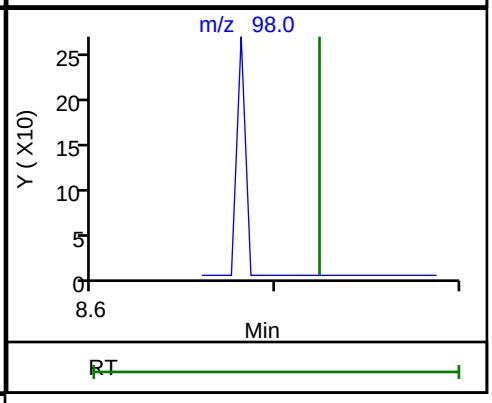
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

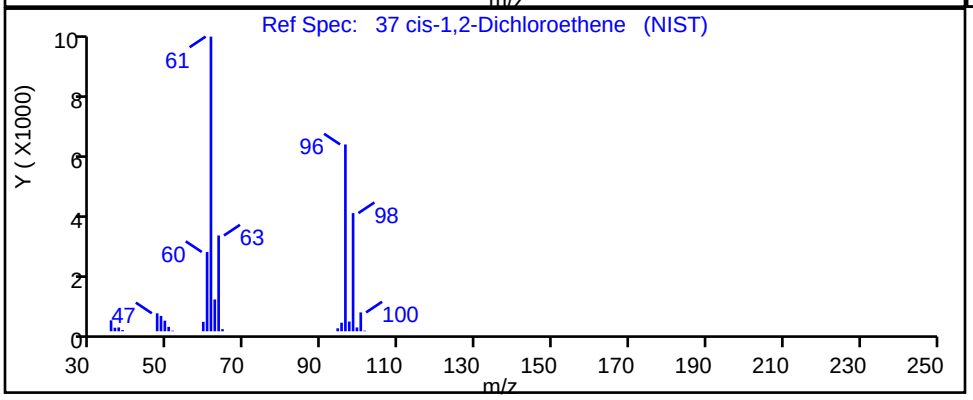
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.83 | 96.00 | 191 | 0.003713 |
| 8.72 | 98.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:18:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

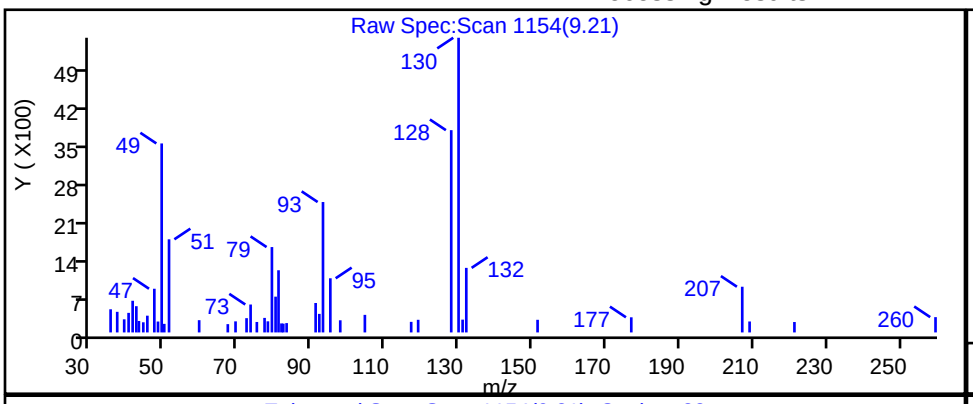
User Disabled Compound Report

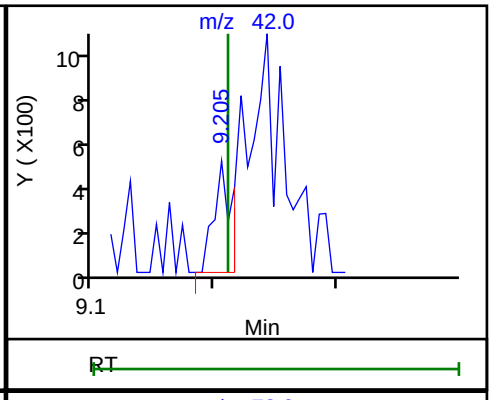
TestAmerica Burlington

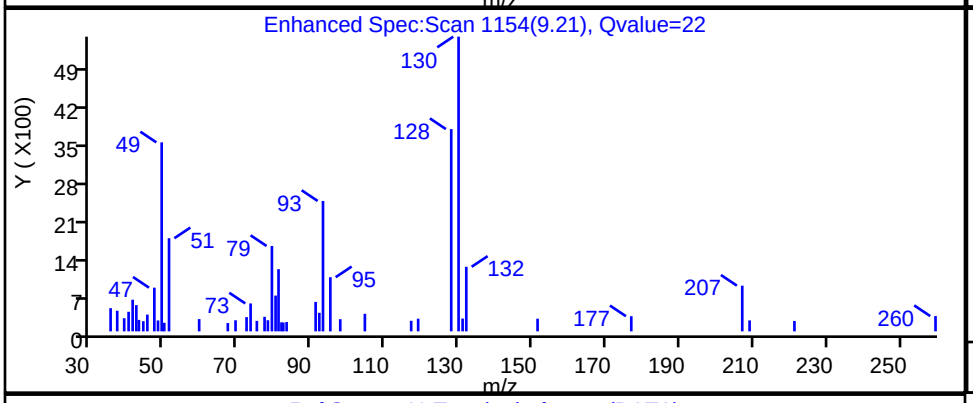
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

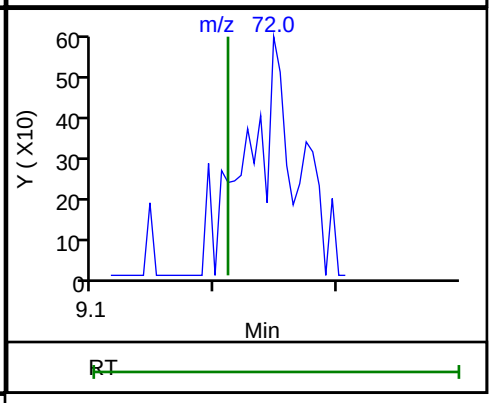
## 41 Tetrahydrofuran, CAS: 109-99-9

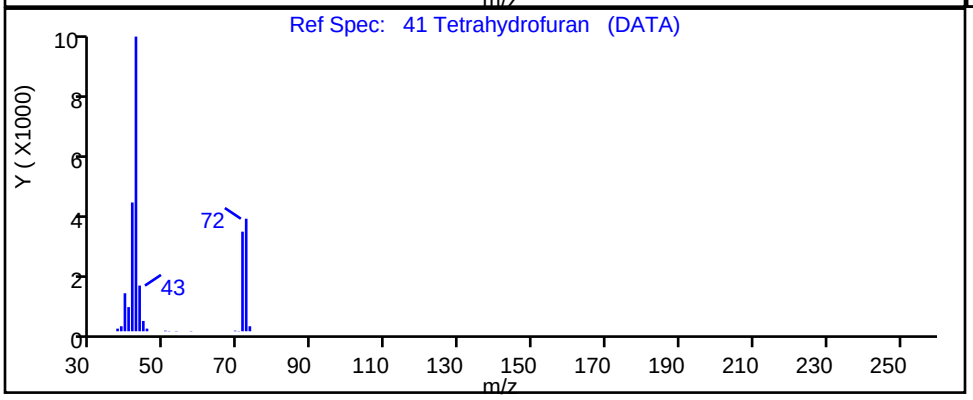
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.21 | 42.00 | 482 | 0.015012 |
| 9.21 | 72.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:19:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

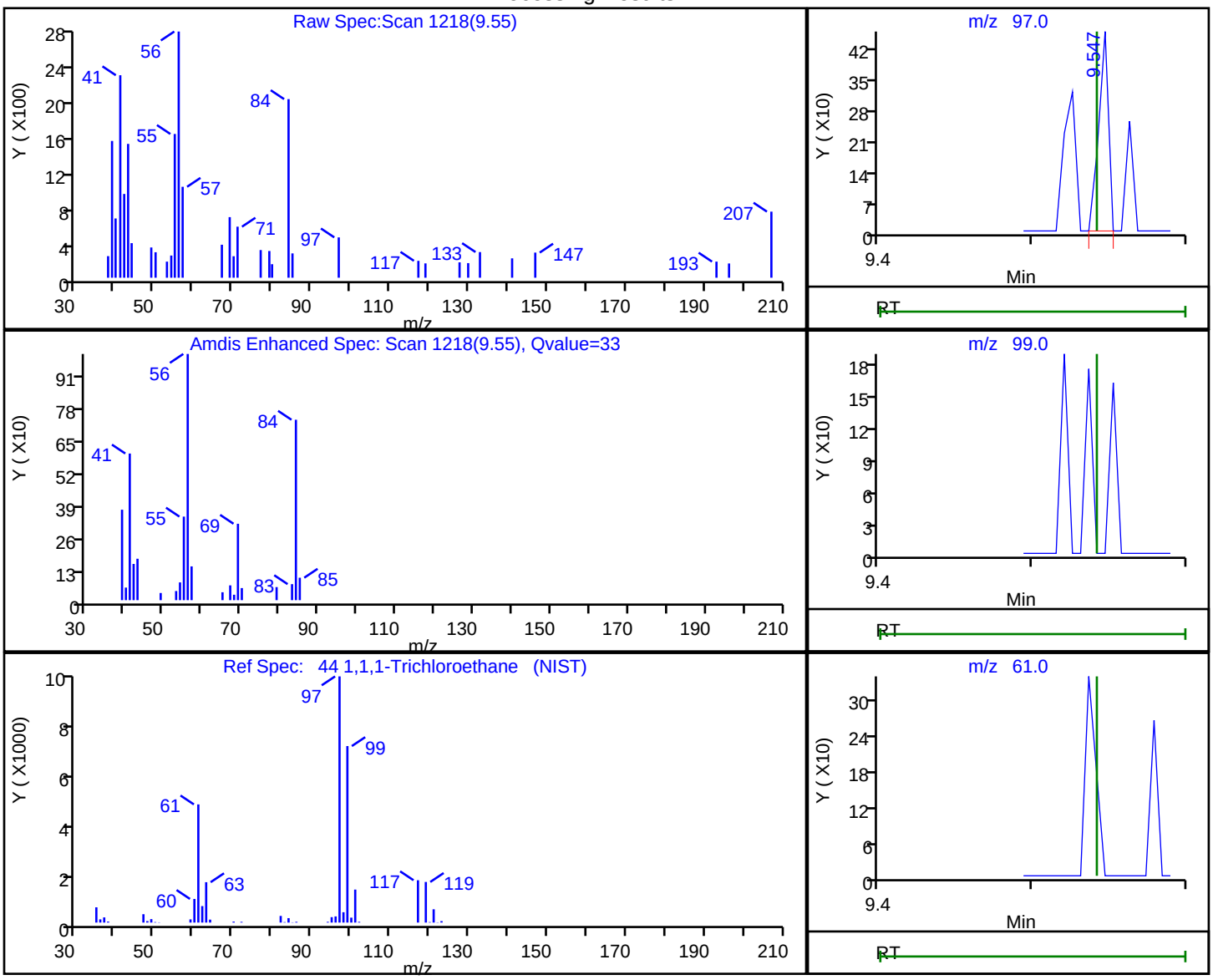
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.55 | 97.00 | 204 | 0.001304 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:19:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

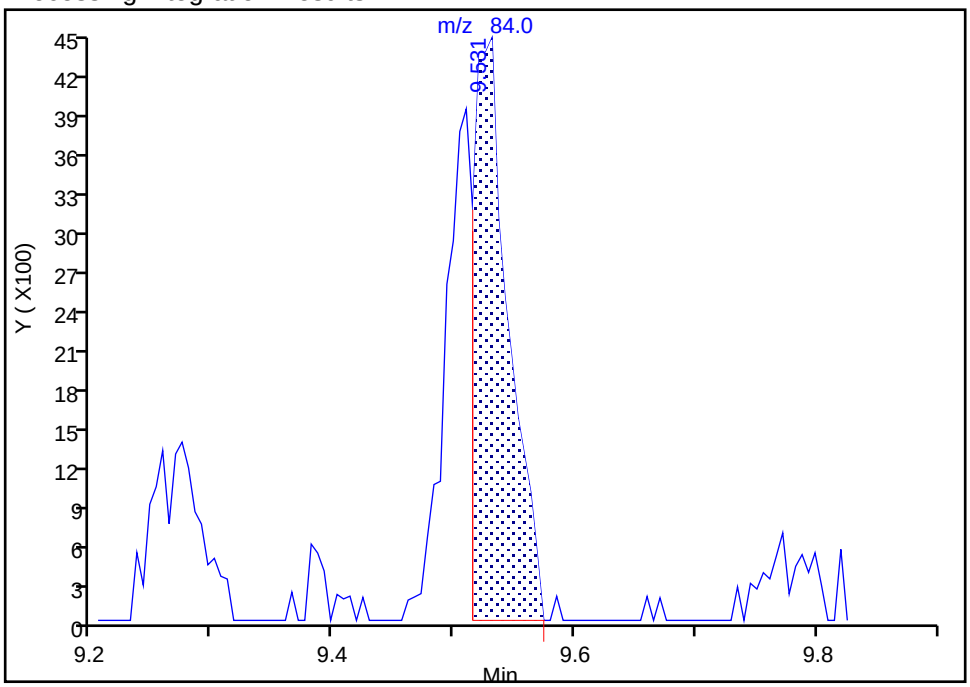
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

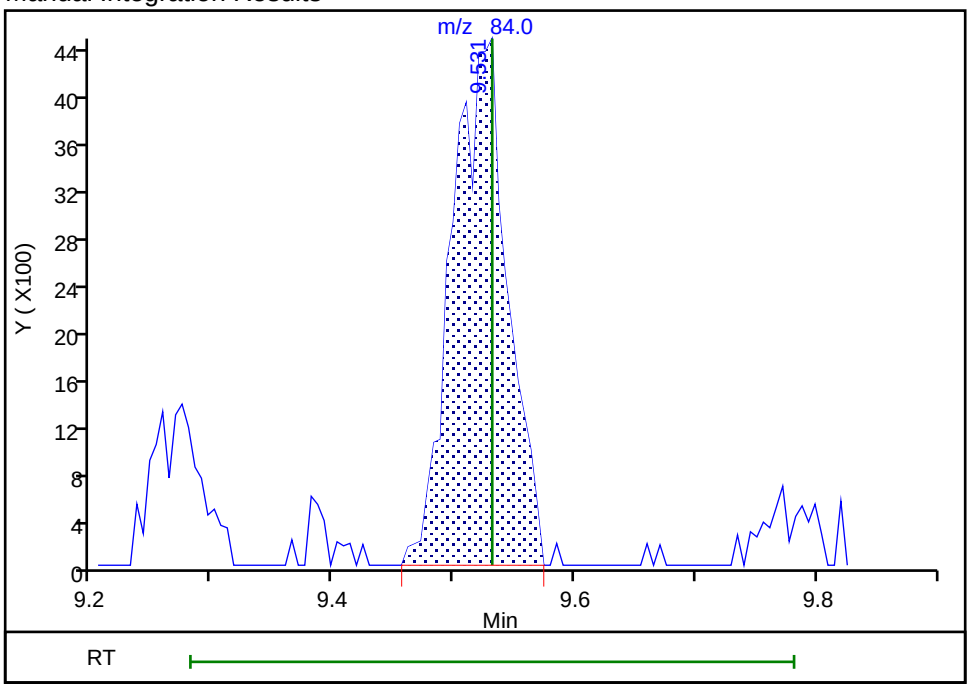
Processing Integration Results

RT: 9.53
Area: 8978
Amount: 0.138976
Amount Units: ppb v/v




Manual Integration Results

RT: 9.53
Area: 14205
Amount: 0.219887
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:19:24

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

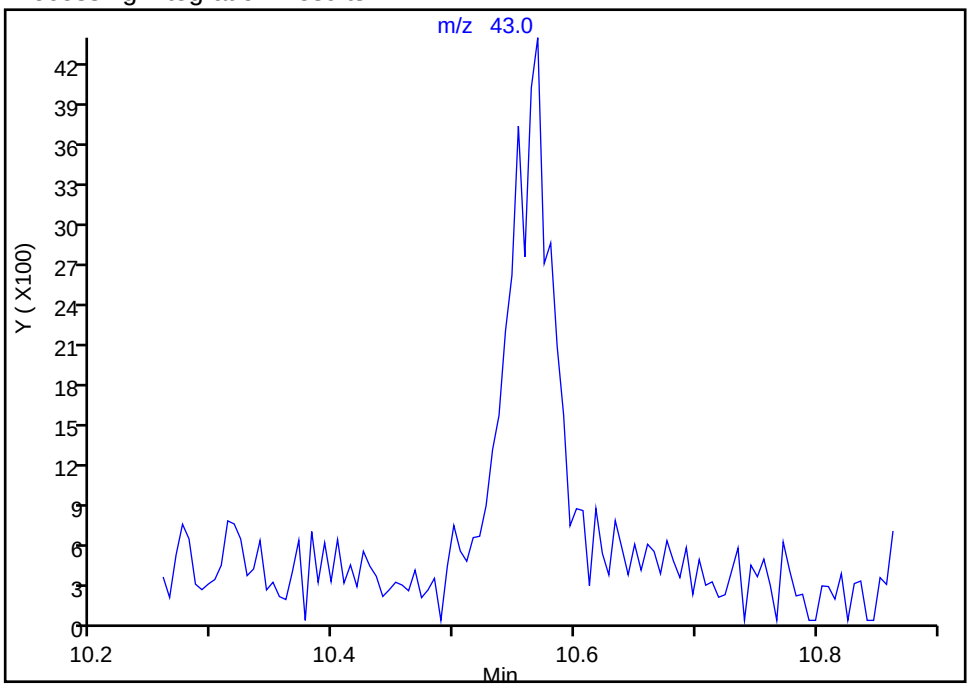
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5

Signal: 1

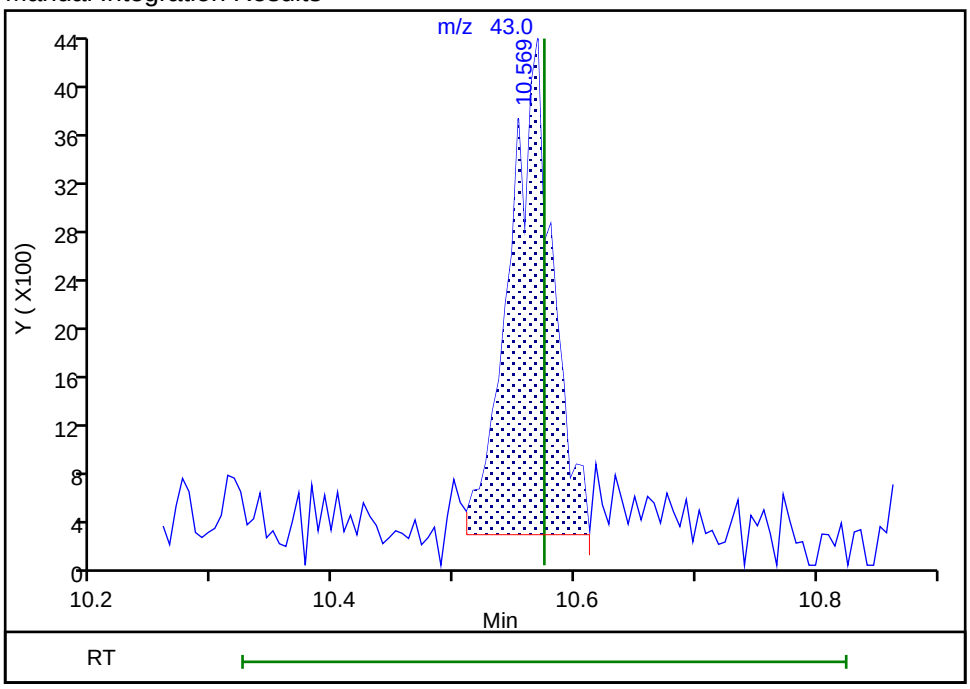
Not Detected
Expected RT: 10.57

Processing Integration Results




Manual Integration Results

RT: 10.57
Area: 9999
Amount: 0.129669
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:20:14
Audit Action: Manually Integrated Audit Reason: Assign Peak

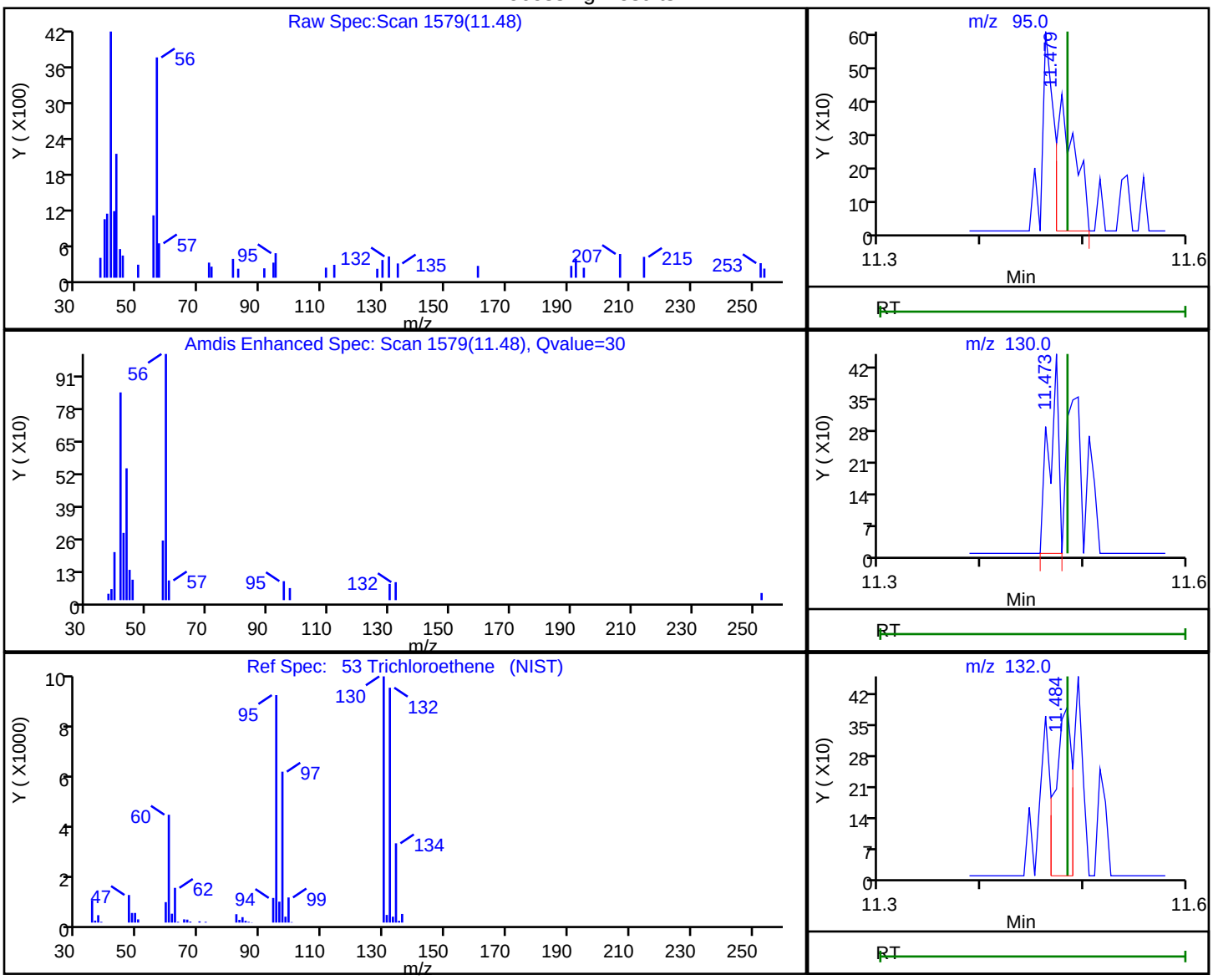
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 11.48 | 95.00 | 510 | 0.005200 |
| 11.47 | 130.00 | 287 | |
| 11.48 | 132.00 | 440 | |

Reviewer: bunmaa, 06-Dec-2018 17:20:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

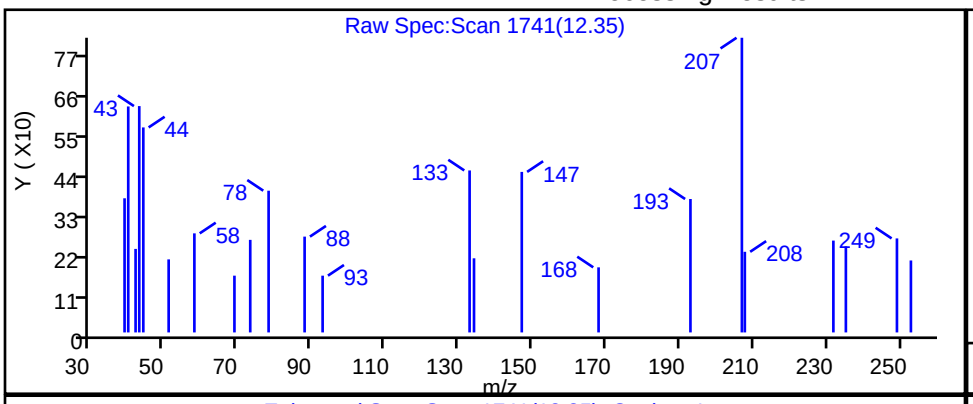
User Disabled Compound Report

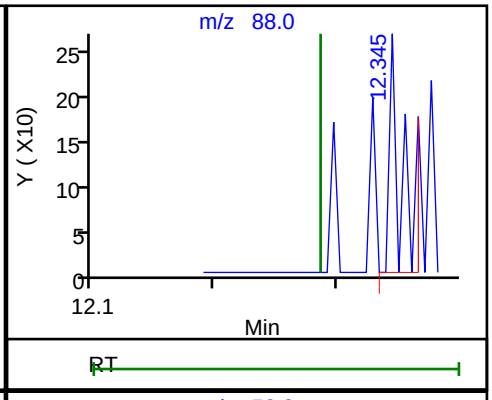
TestAmerica Burlington

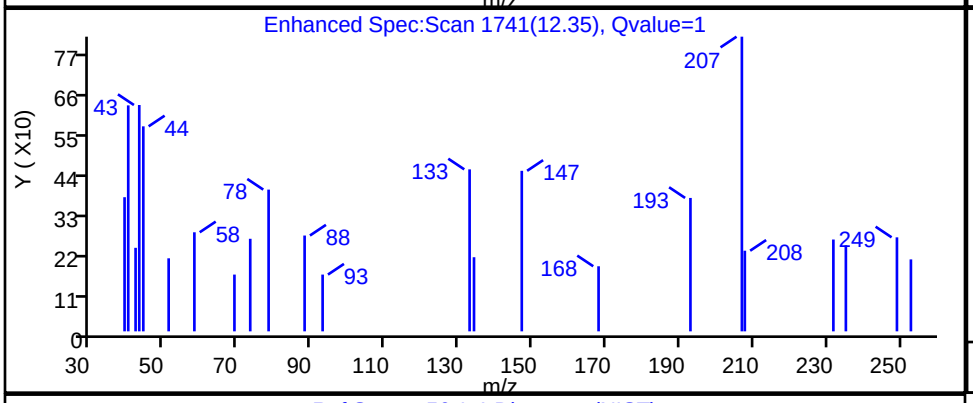
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

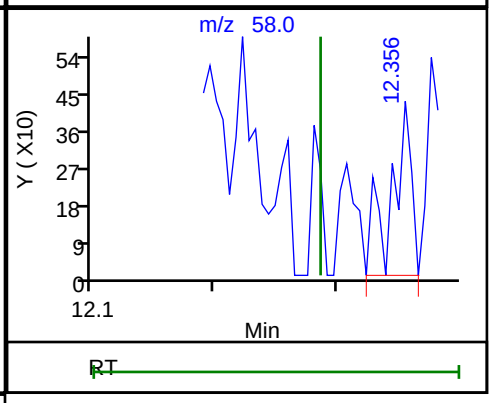
## 56 1,4-Dioxane, CAS: 123-91-1

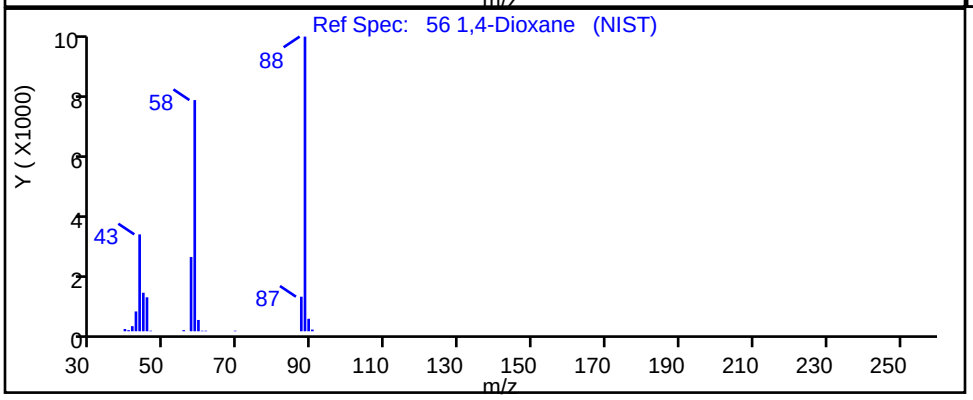
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.35 | 88.00 | 197 | 0.007151 |
| 12.36 | 58.00 | 484 | |

Reviewer: bunmaa, 06-Dec-2018 17:21:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

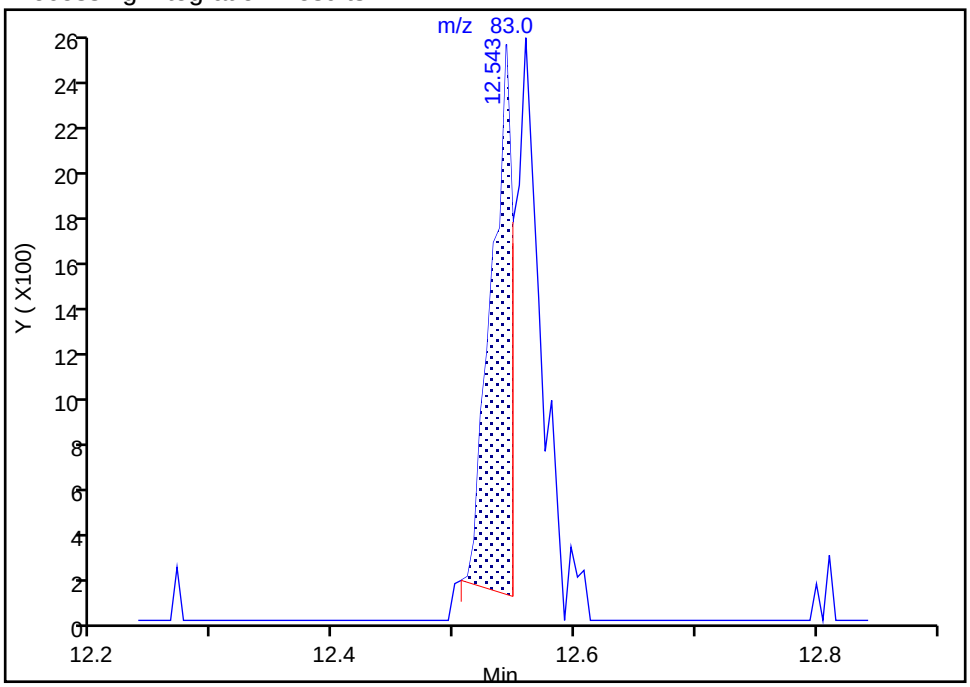
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

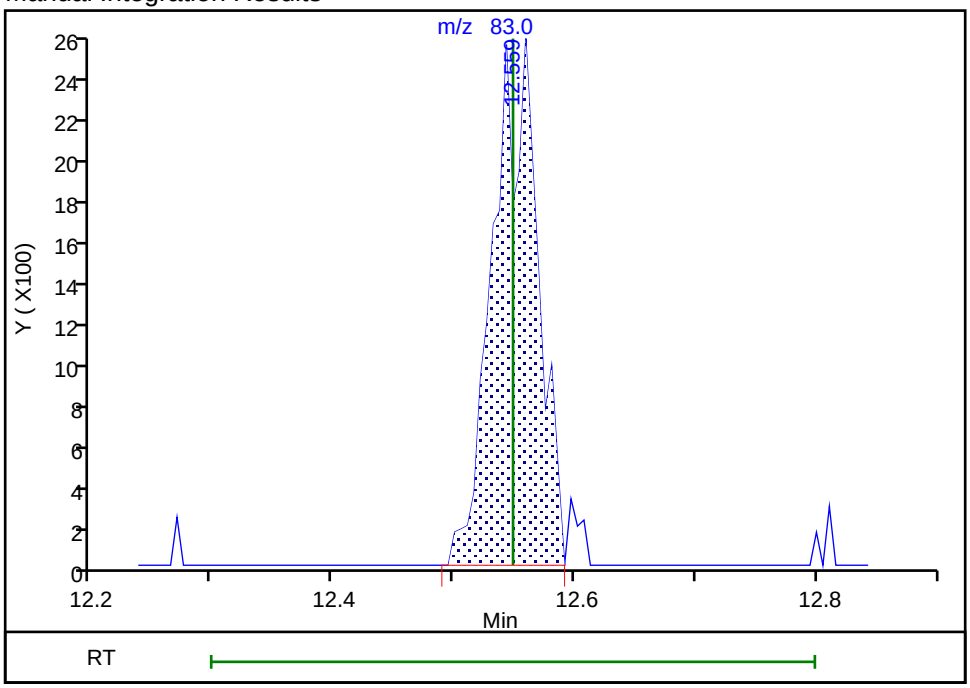
Processing Integration Results

RT: 12.54
Area: 2895
Amount: 0.019008
Amount Units: ppb v/v




Manual Integration Results

RT: 12.56
Area: 6497
Amount: 0.042658
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:21:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

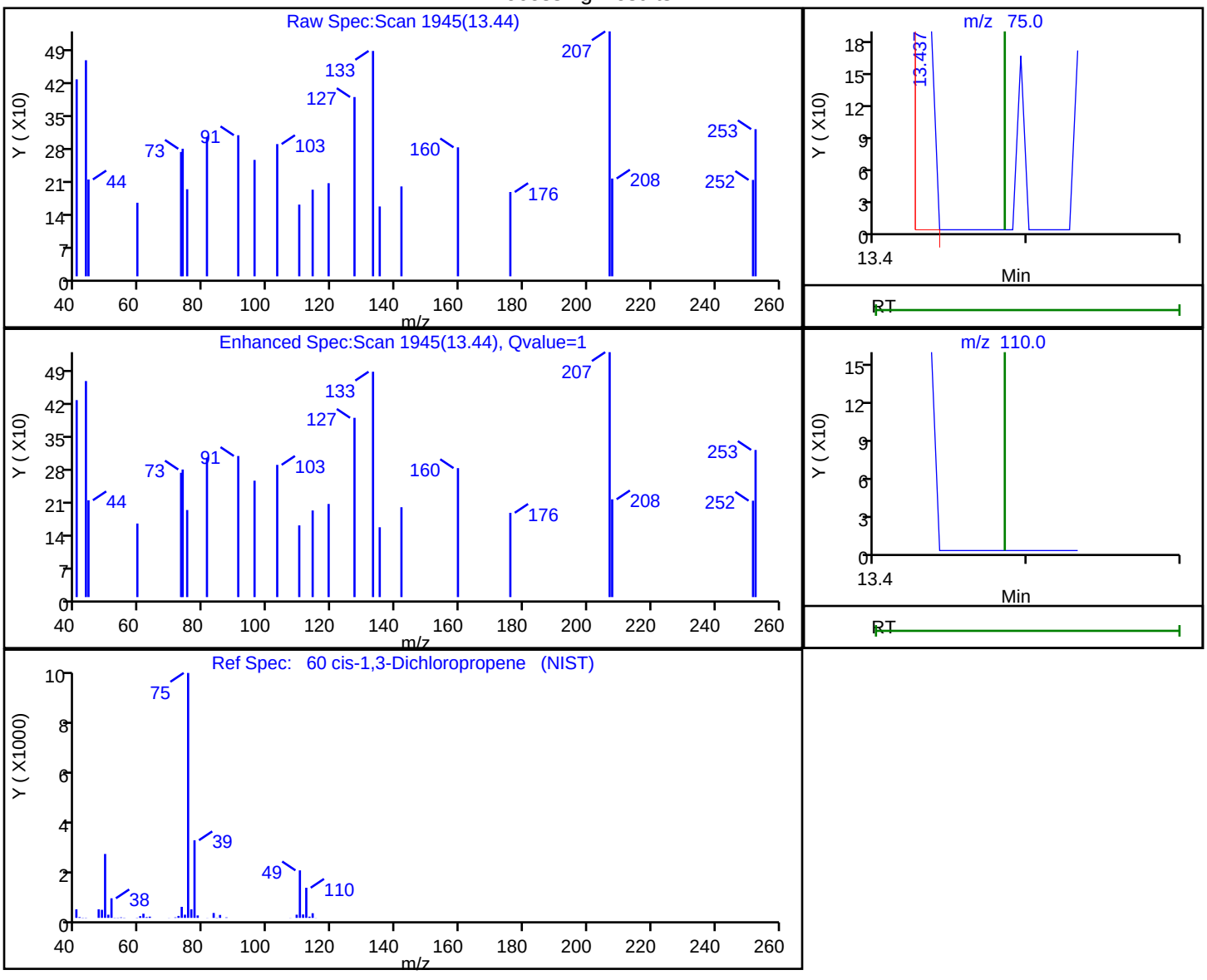
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.44 | 75.00 | 111 | 0.001177 |
| 13.48 | 110.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:21:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

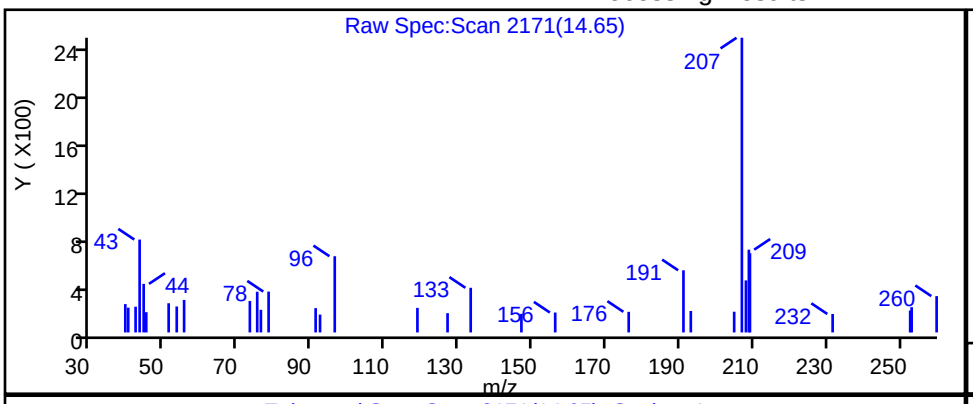
User Disabled Compound Report

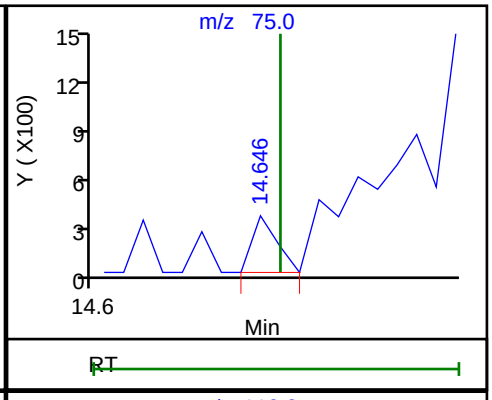
TestAmerica Burlington

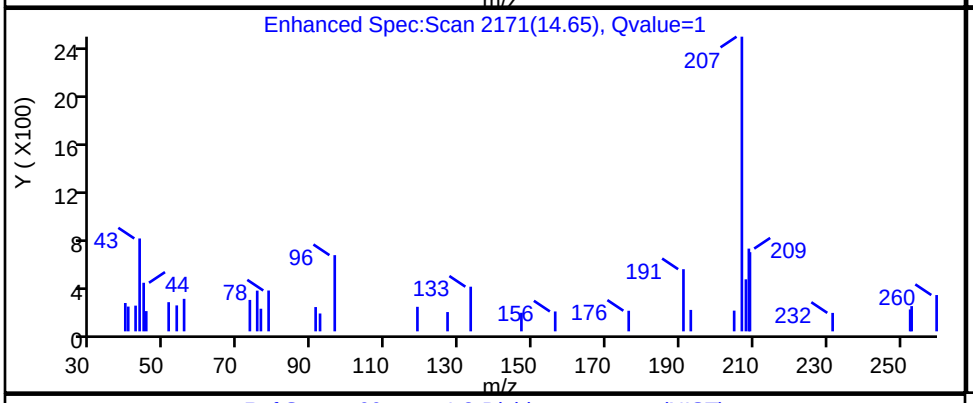
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

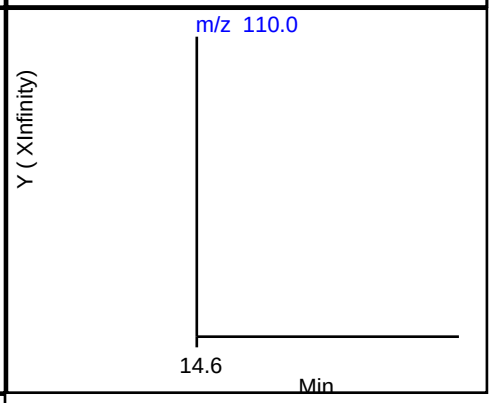
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

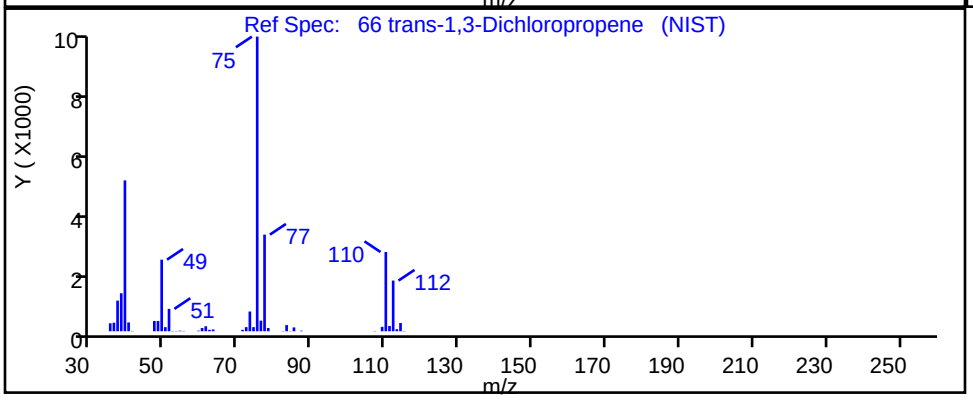
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.65 | 75.00 | 161 | 0.001736 |
| 14.65 | 110.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:21:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

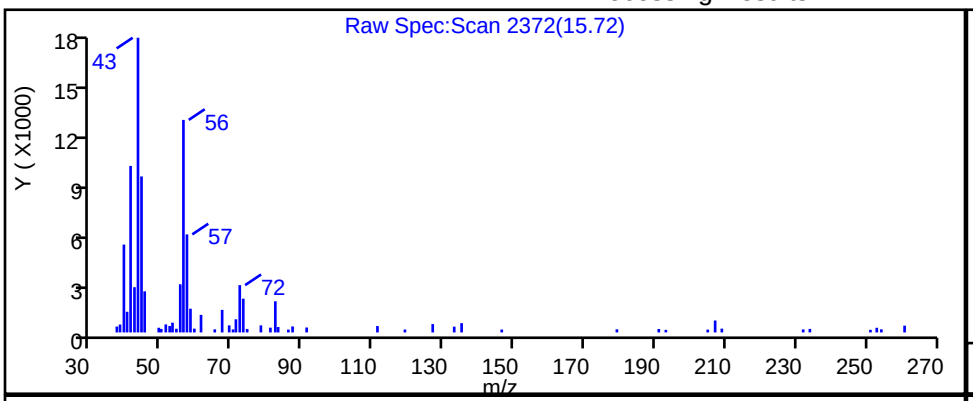
User Disabled Compound Report

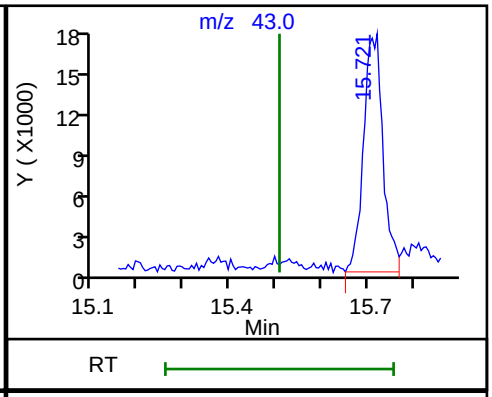
TestAmerica Burlington

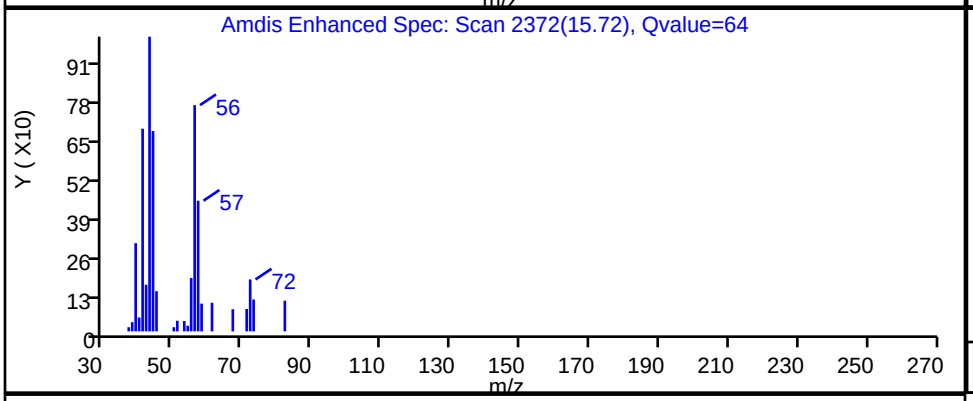
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

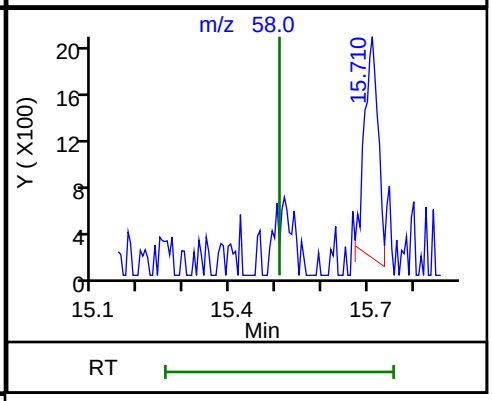
## 69 2-Hexanone, CAS: 591-78-6

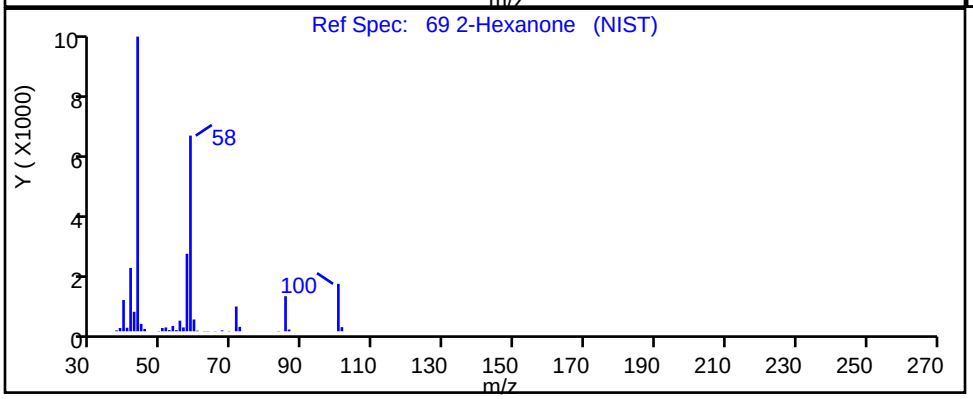
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.72 | 43.00 | 51008 | 0.549661 |
| 15.71 | 58.00 | 3965 | |

Reviewer: bunmaa, 06-Dec-2018 17:21:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

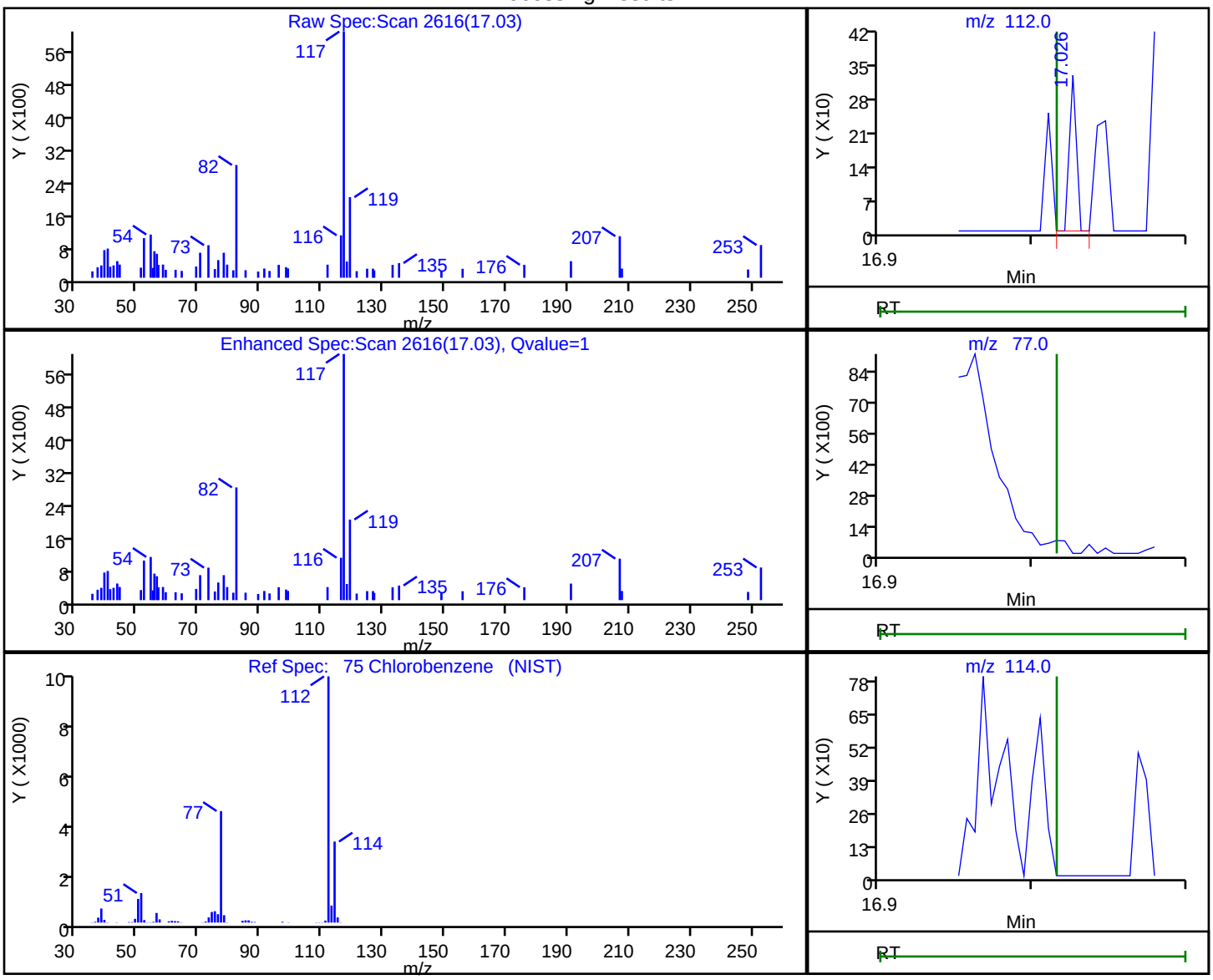
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.03 | 112.00 | 103 | 0.000634 |
| 17.02 | 77.00 | 0 | |
| 17.02 | 114.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:22:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

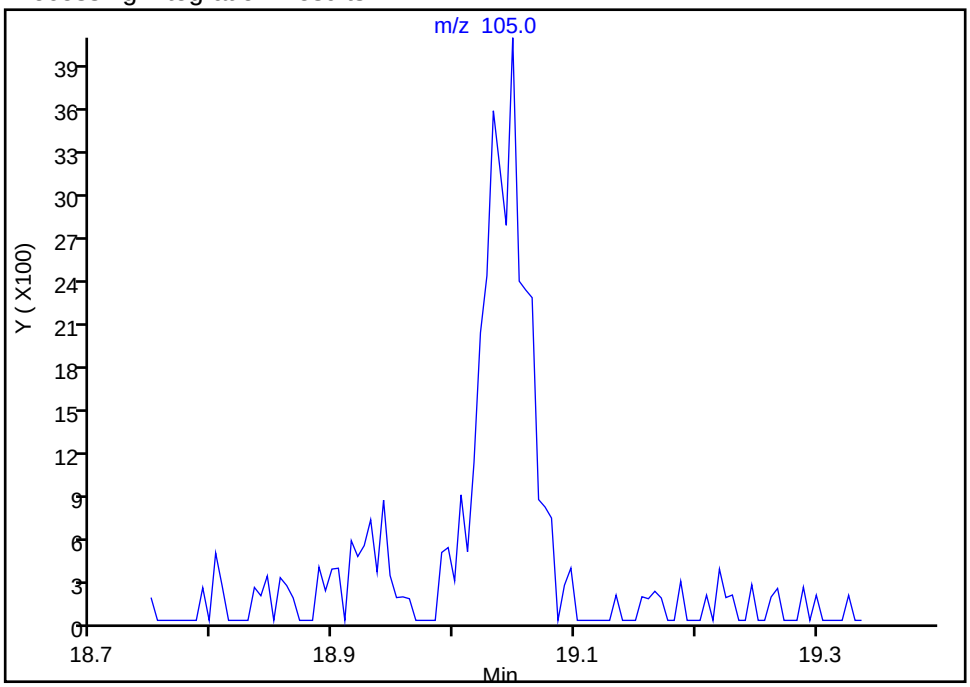
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Signal: 1

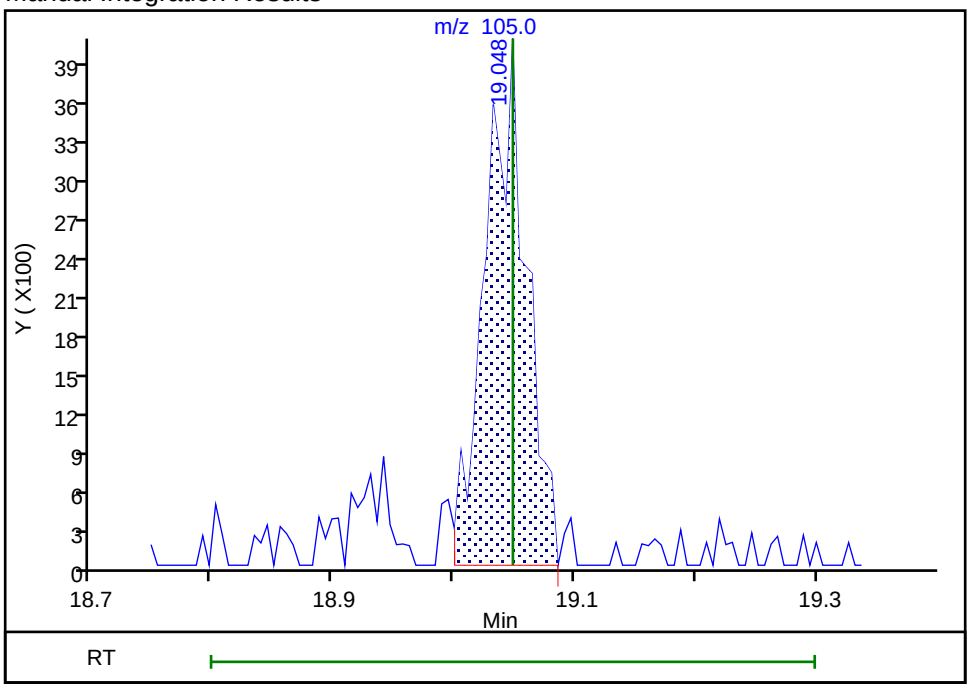
Not Detected
Expected RT: 19.05

Processing Integration Results




Manual Integration Results

RT: 19.05
Area: 9615
Amount: 0.035901
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:22:42
Audit Action: Manually Integrated Audit Reason: Assign Peak

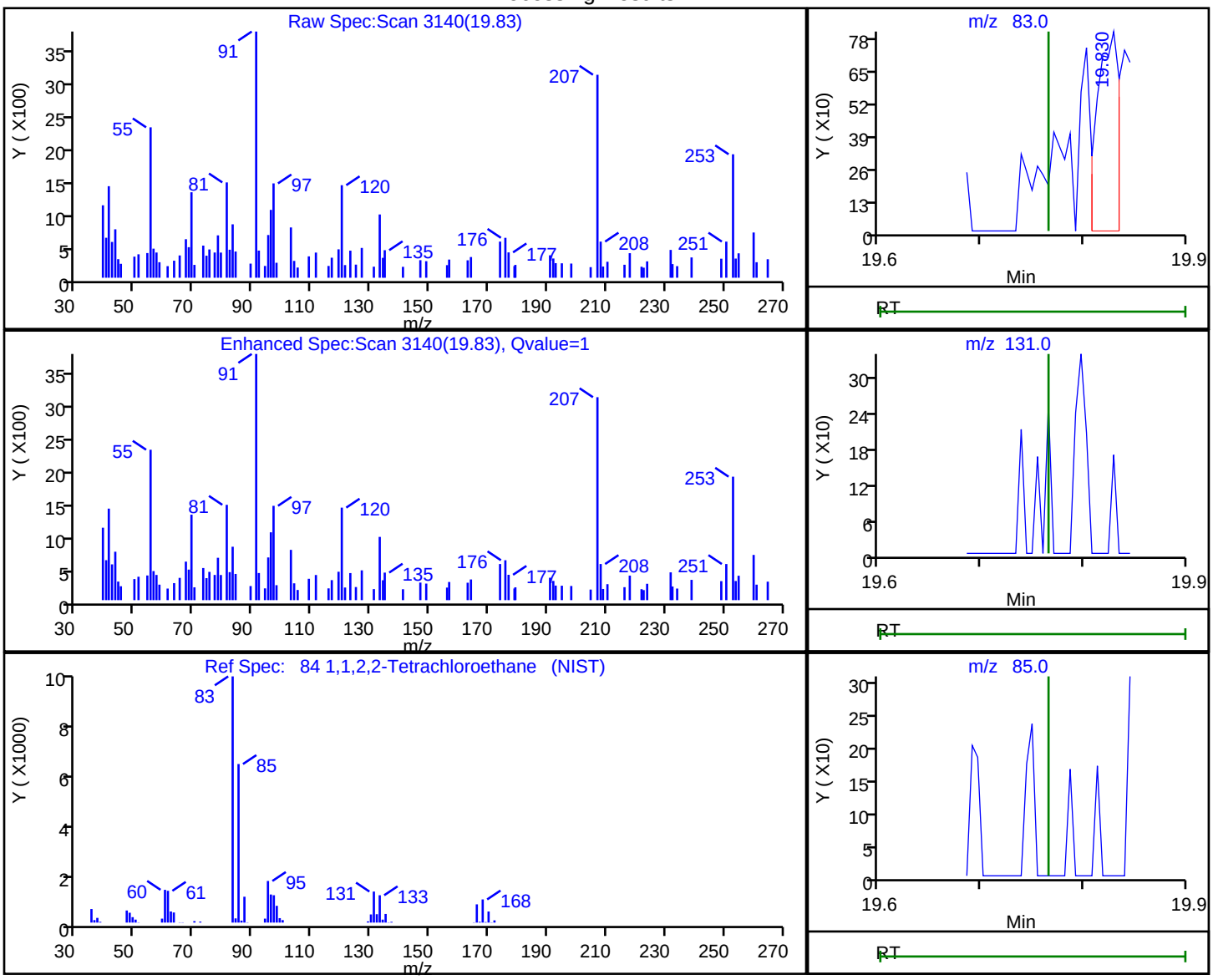
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.83 | 83.00 | 1175 | 0.008041 |
| 19.77 | 131.00 | 0 | |
| 19.77 | 85.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 17:22:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

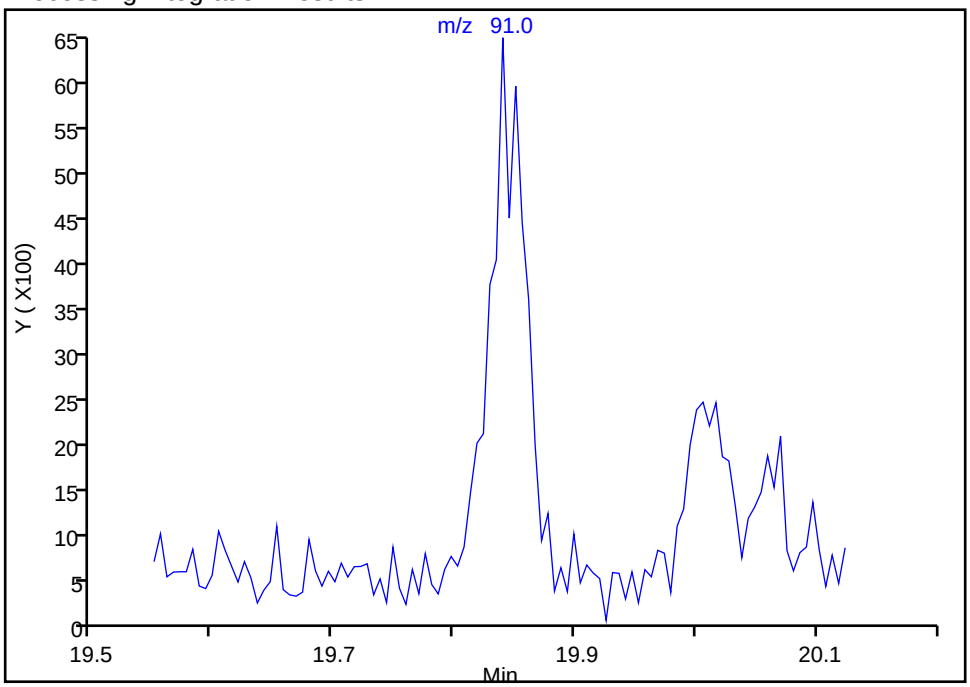
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

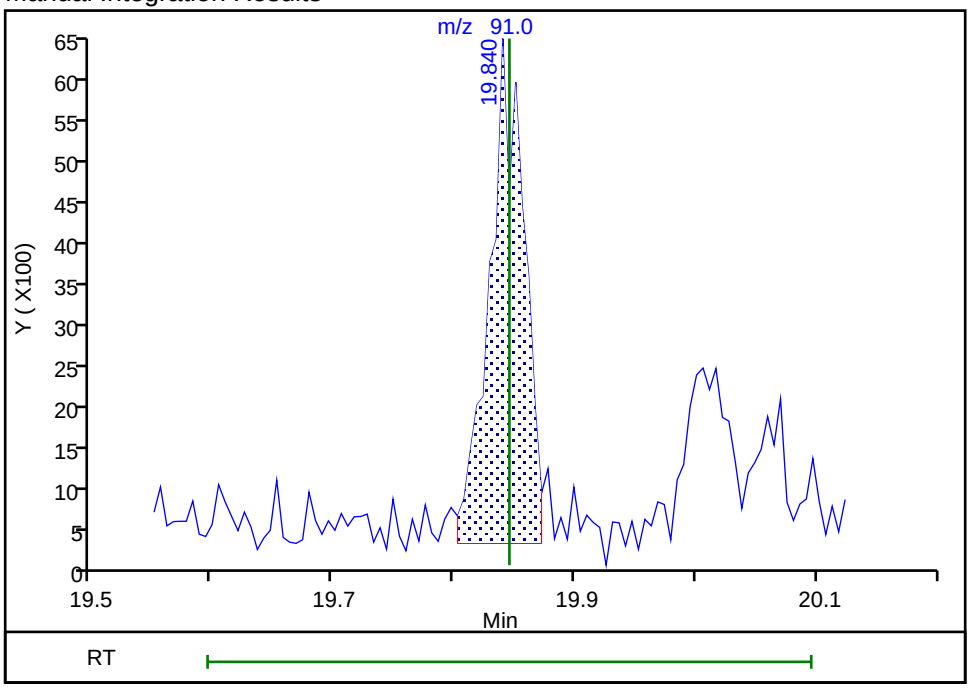
Not Detected
Expected RT: 19.85

Processing Integration Results




Manual Integration Results

RT: 19.84
Area: 12287
Amount: 0.038527
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:23:06
Audit Action: Manually Integrated Audit Reason: Assign Peak

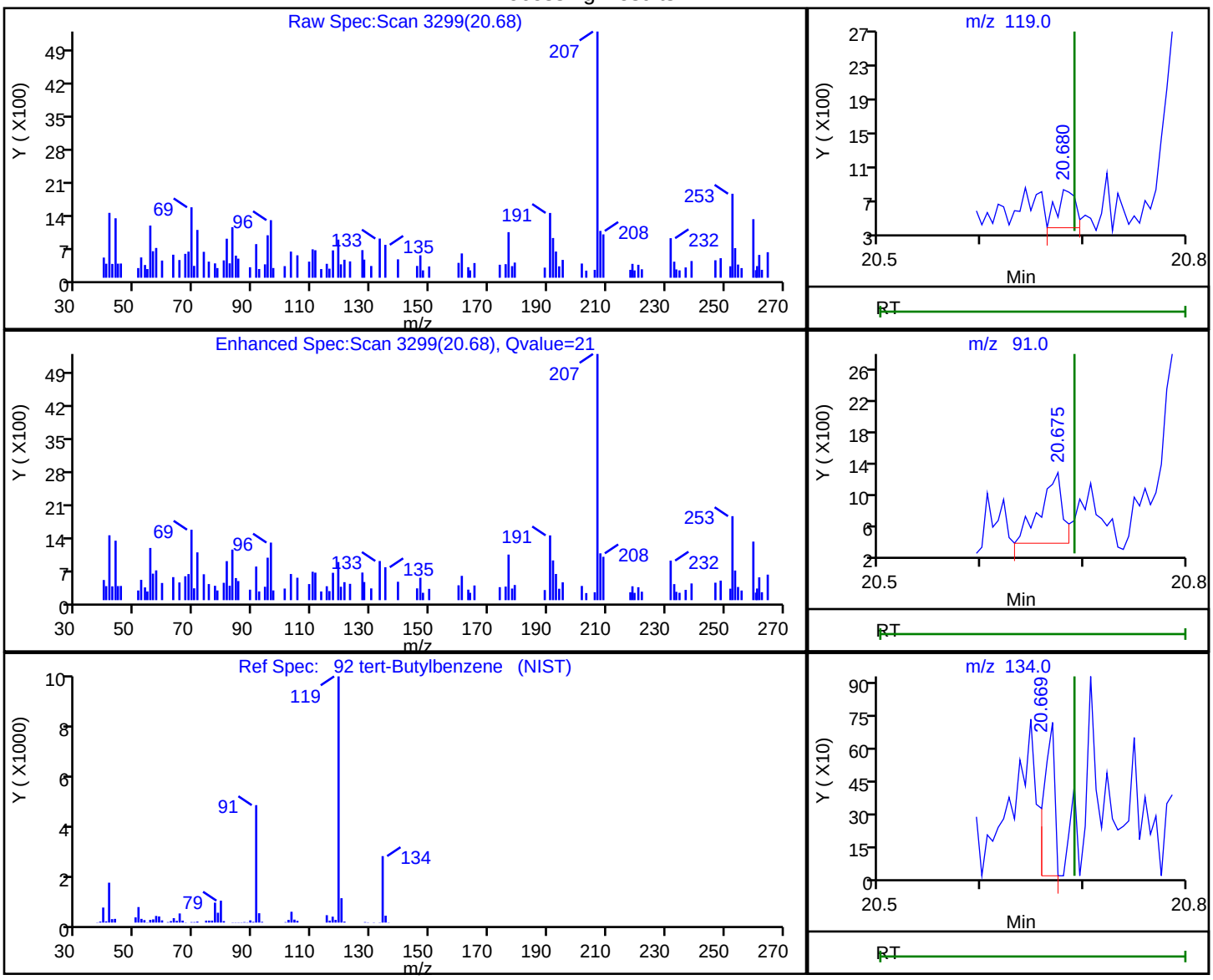
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.68 | 119.00 | 555 | 0.002554 |
| 20.67 | 91.00 | 1304 | |
| 20.67 | 134.00 | 499 | |

Reviewer: bunmaa, 06-Dec-2018 17:24:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

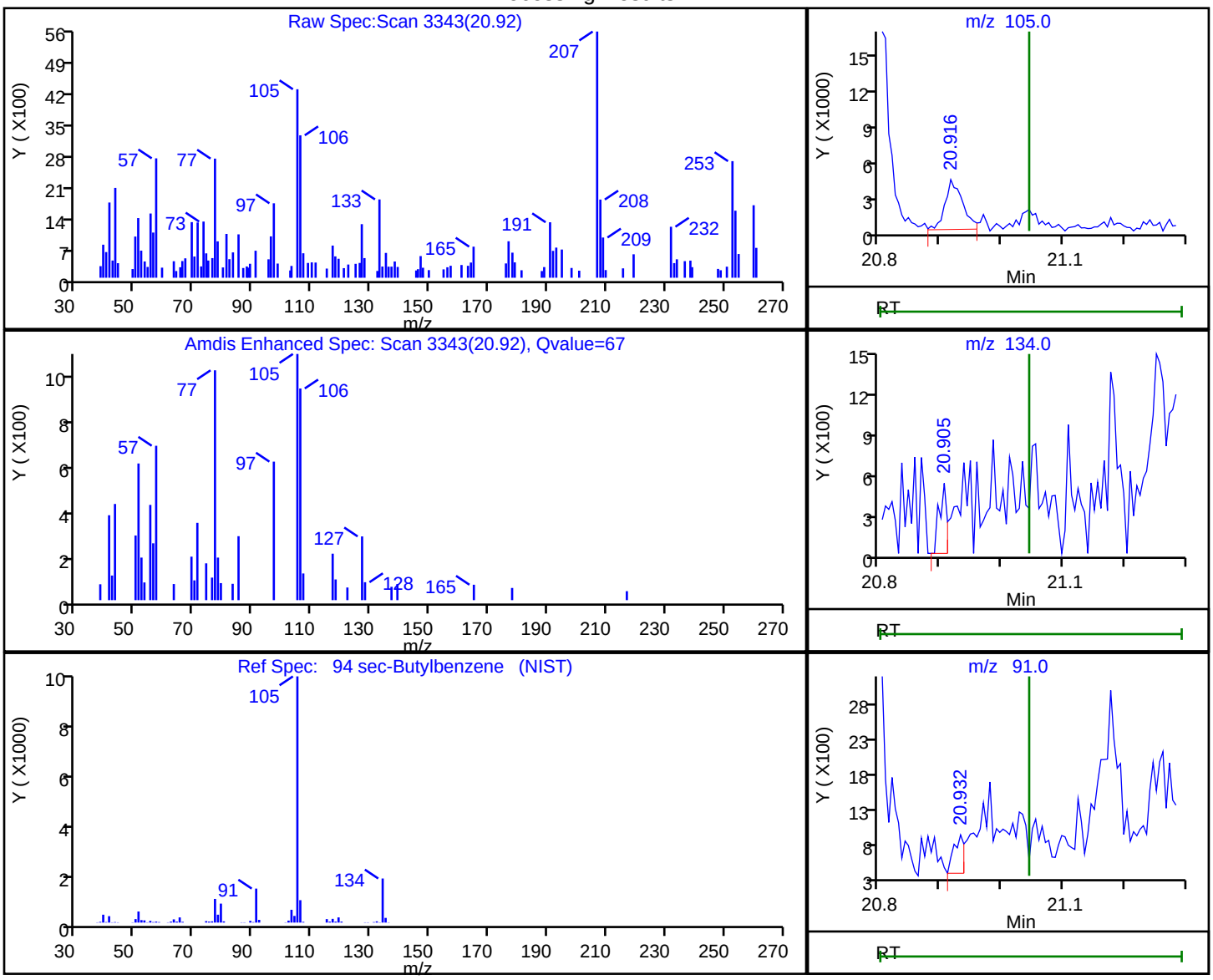
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 8266 | 0.025656 |
| 20.90 | 134.00 | 428 | |
| 20.93 | 91.00 | 629 | |

Reviewer: bunmaa, 06-Dec-2018 17:24:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

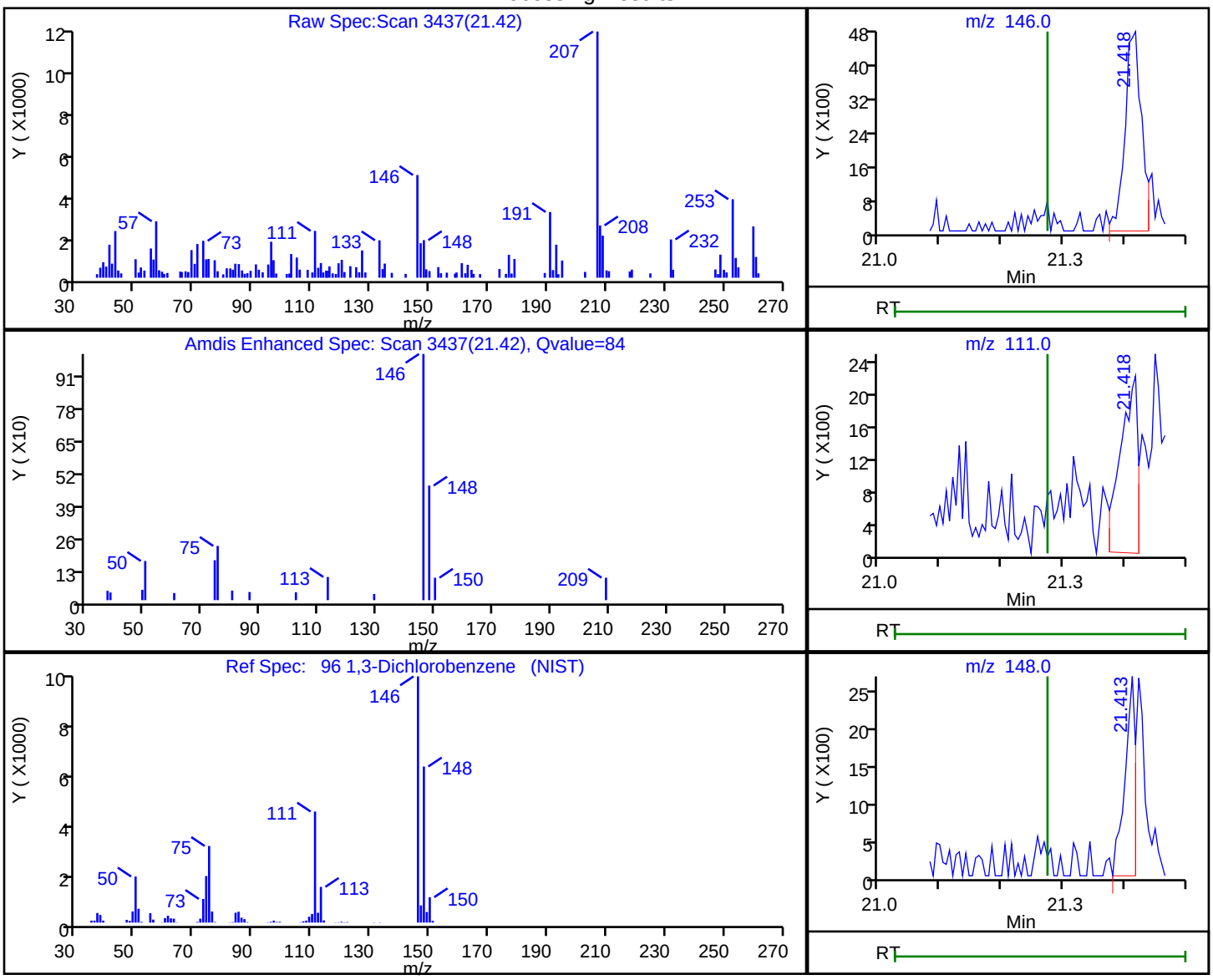
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.42 | 146.00 | 8974 | 0.048317 |
| 21.42 | 111.00 | 4226 | |
| 21.41 | 148.00 | 3136 | |

Reviewer: bunmaa, 06-Dec-2018 17:24:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

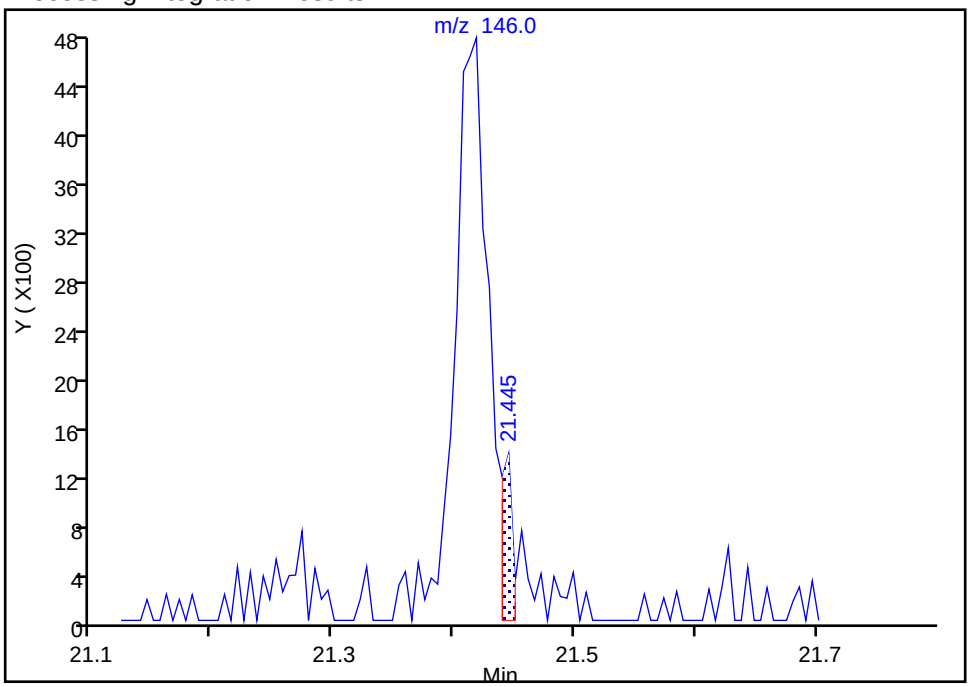
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

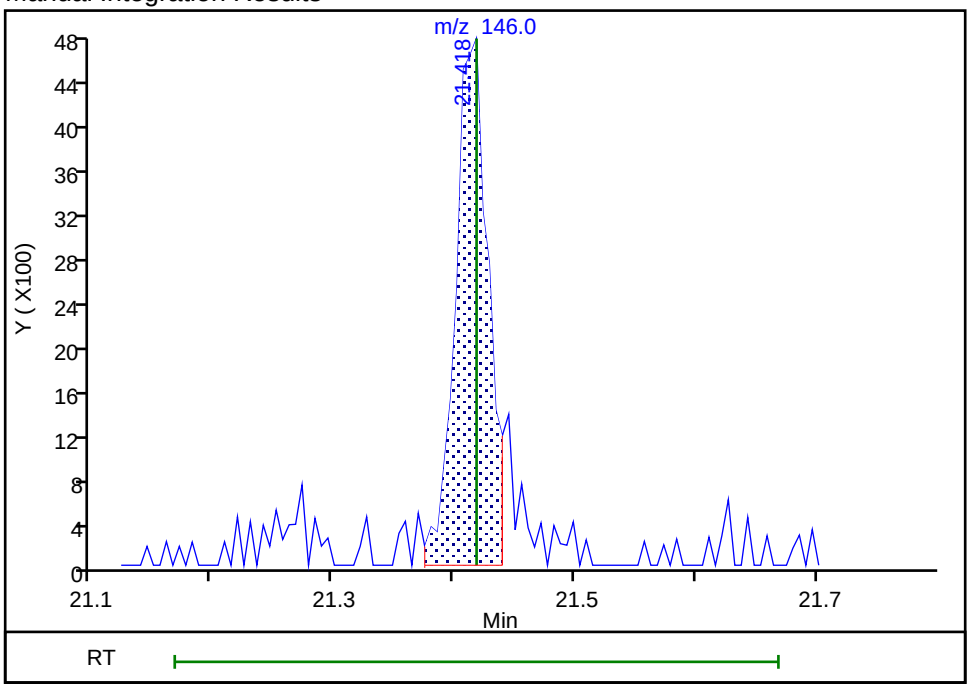
Processing Integration Results

RT: 21.45
Area: 911
Amount: 0.005129
Amount Units: ppb v/v




Manual Integration Results

RT: 21.42
Area: 8974
Amount: 0.050527
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 17:24:44

Audit Action: Assigned Compound ID Audit Reason: Assign Peak

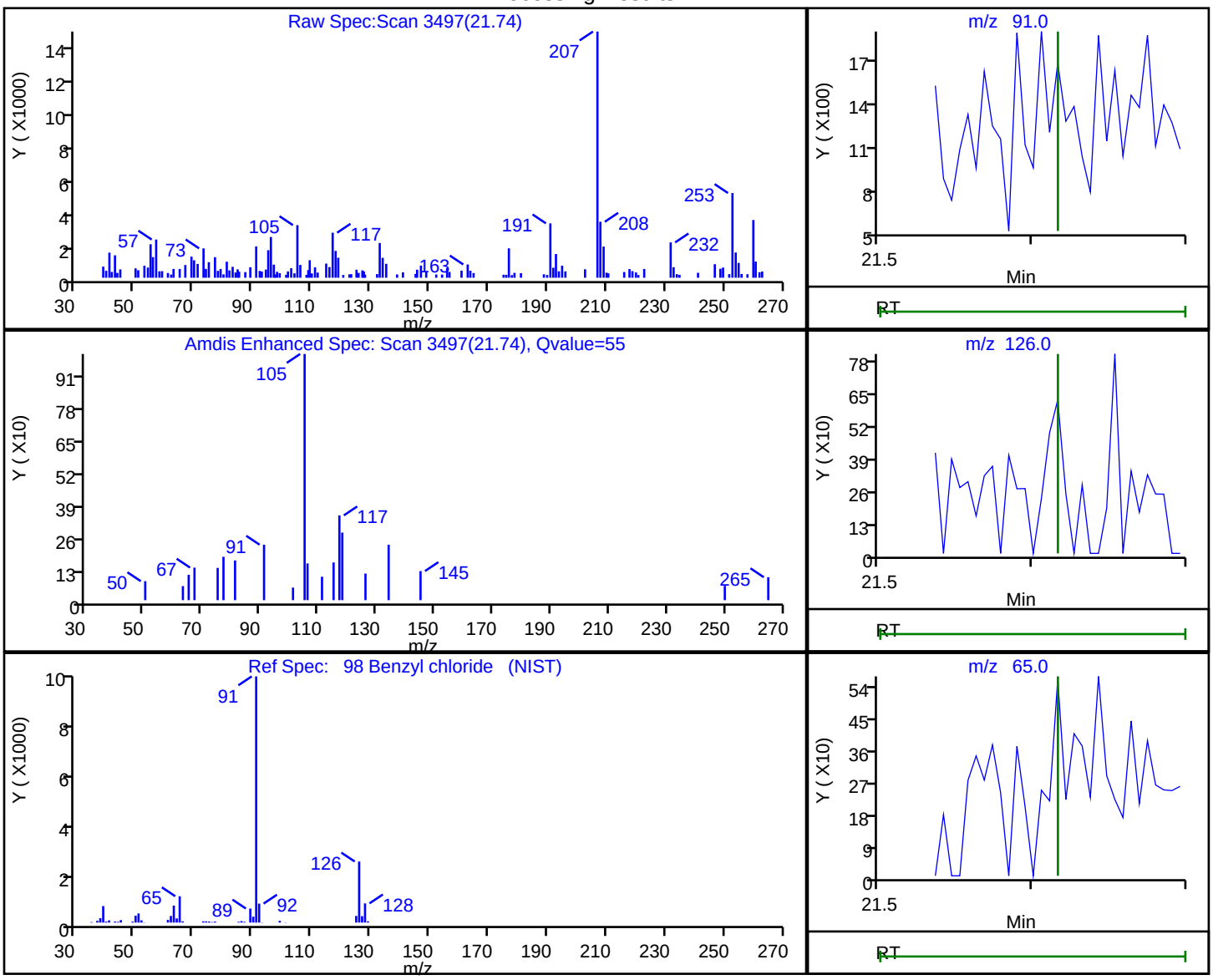
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.74 | 91.00 | 1311 | 0.005980 |
| 21.74 | 126.00 | 252 | |
| 21.72 | 65.00 | 1346 | |

Reviewer: bunmaa, 06-Dec-2018 17:32:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

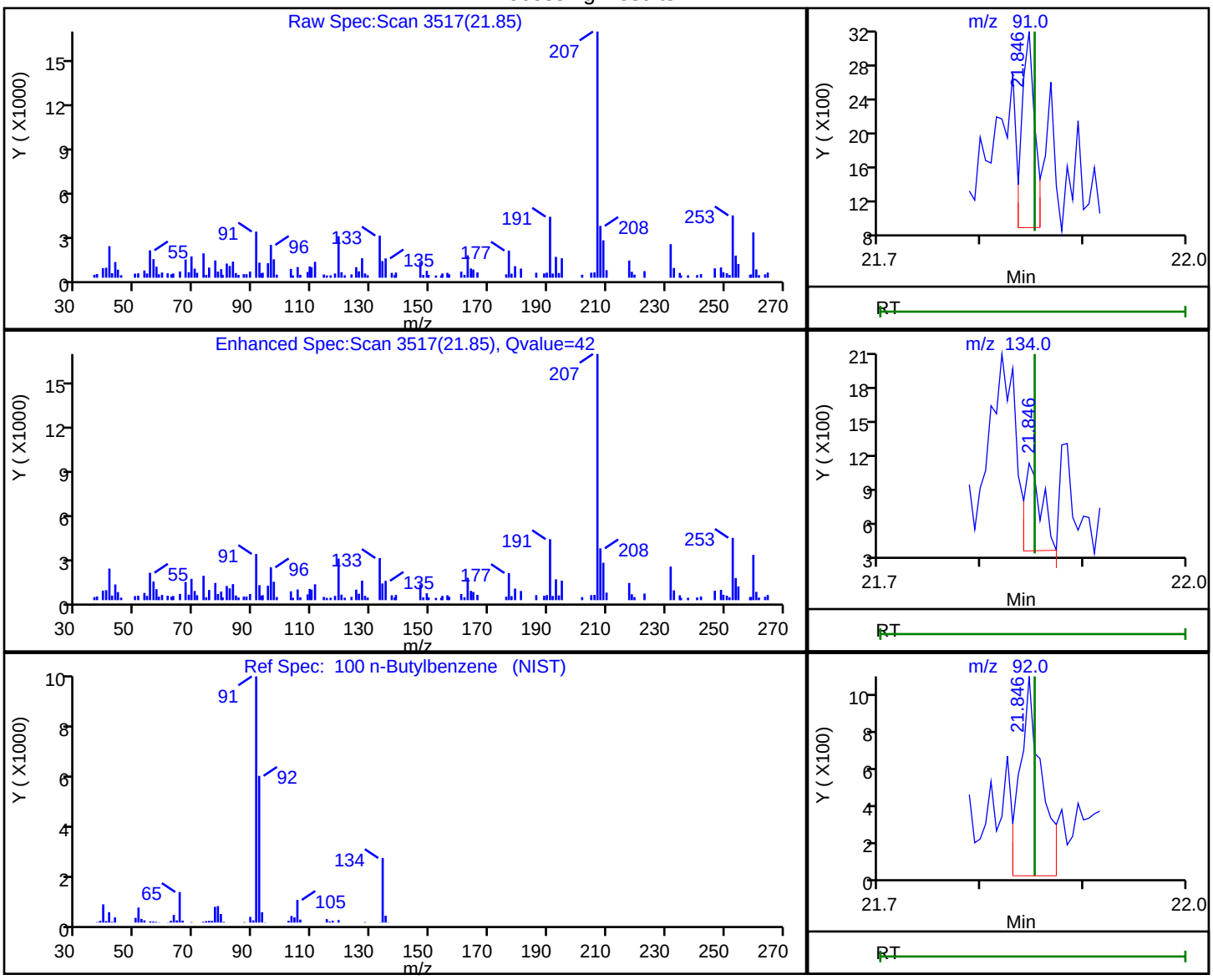
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 1924 | 0.007643 |
| 21.85 | 134.00 | 887 | |
| 21.85 | 92.00 | 1468 | |

Reviewer: bunmaa, 06-Dec-2018 17:32:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

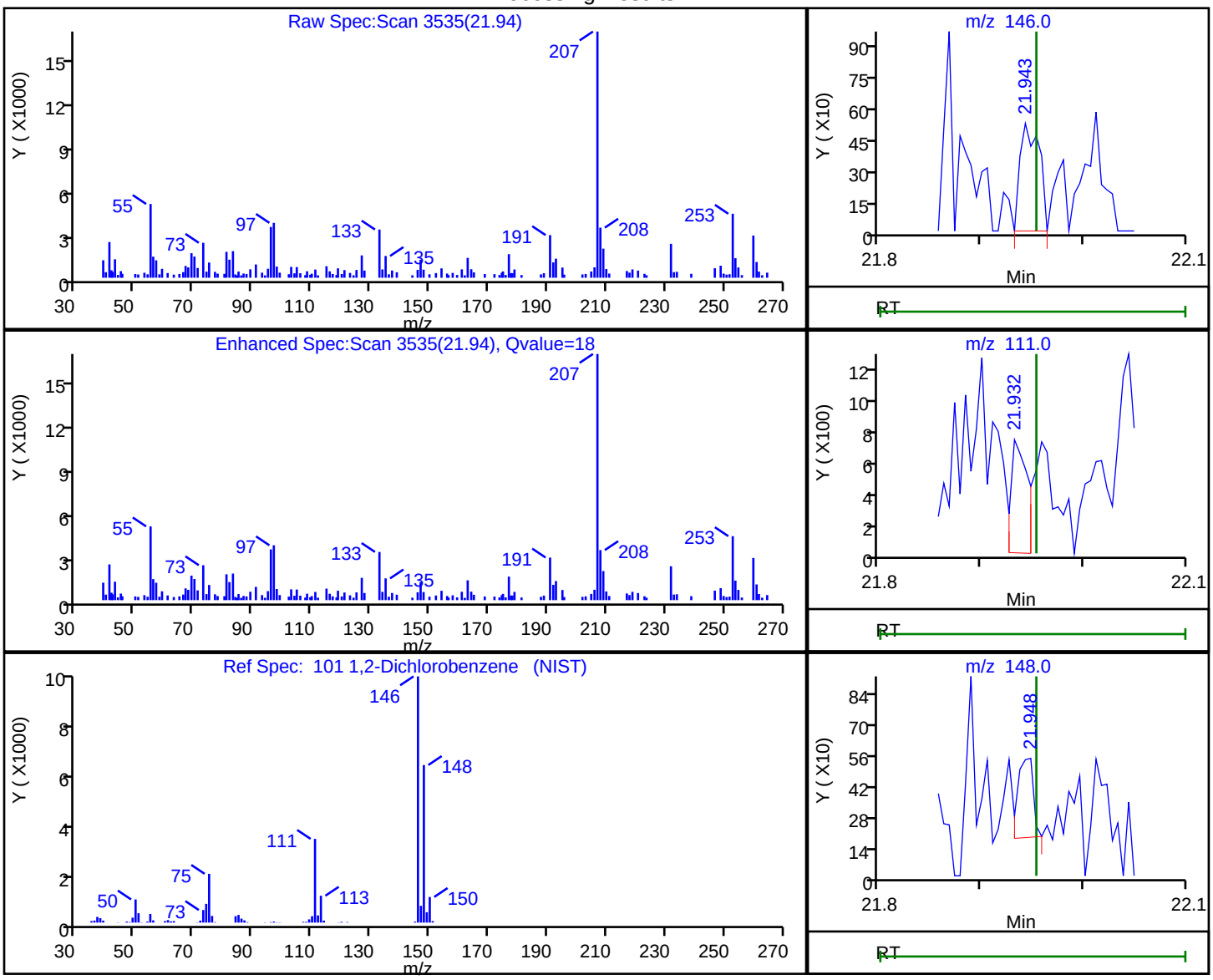
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.94 | 146.00 | 676 | 0.003960 |
| 21.93 | 111.00 | 823 | |
| 21.95 | 148.00 | 380 | |

Reviewer: bunmaa, 06-Dec-2018 17:33:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

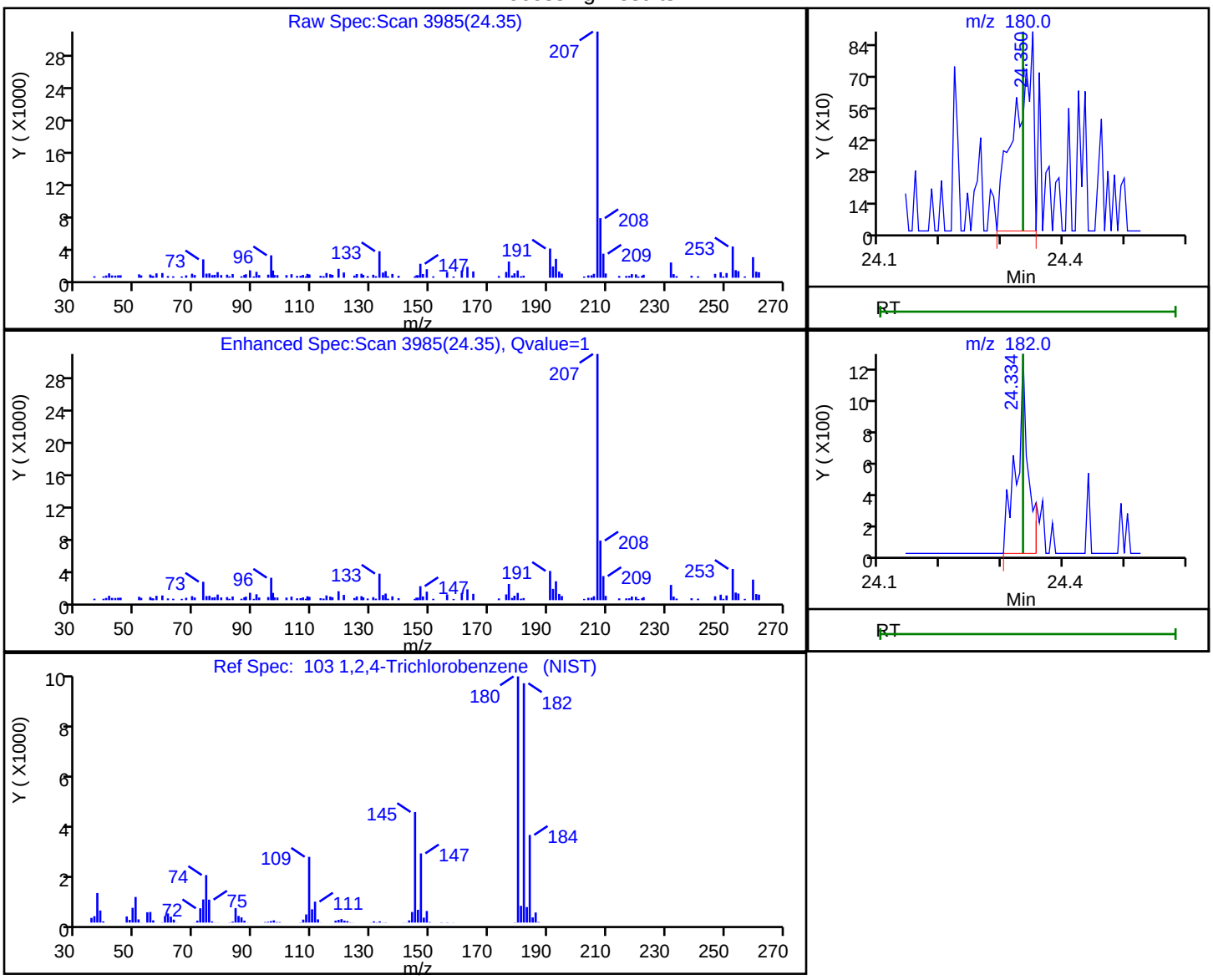
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.35 | 180.00 | 1774 | 0.013827 |
| 24.33 | 182.00 | 1613 | |

Reviewer: bunmaa, 06-Dec-2018 17:33:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

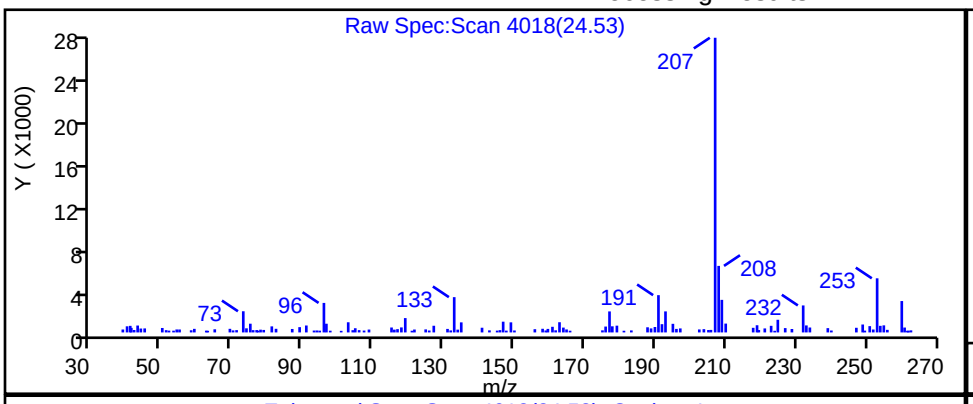
User Disabled Compound Report

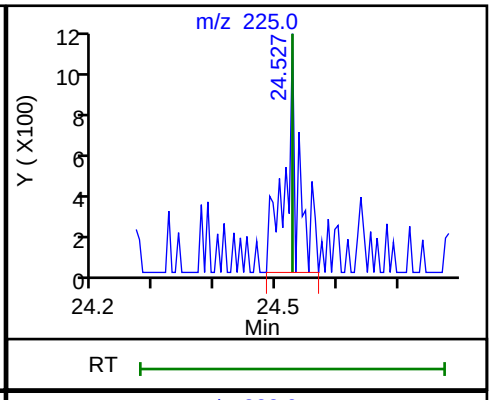
TestAmerica Burlington

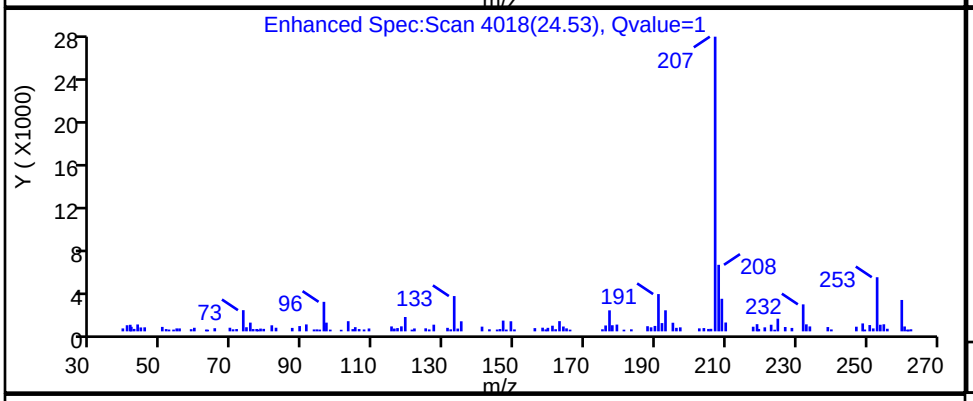
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

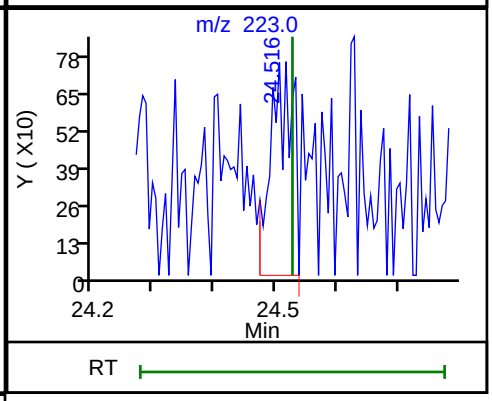
## 104 Hexachlorobutadiene, CAS: 87-68-3

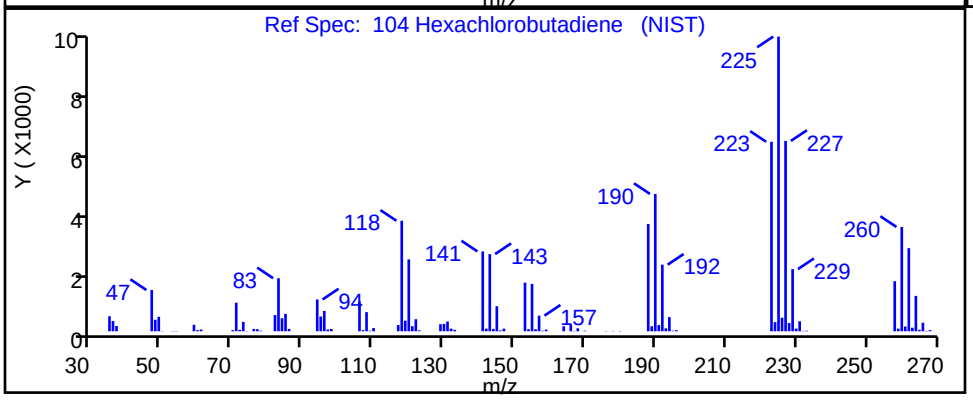
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 1816 | 0.014229 |
| 24.52 | 223.00 | 1886 | |

Reviewer: bunmaa, 06-Dec-2018 17:33:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

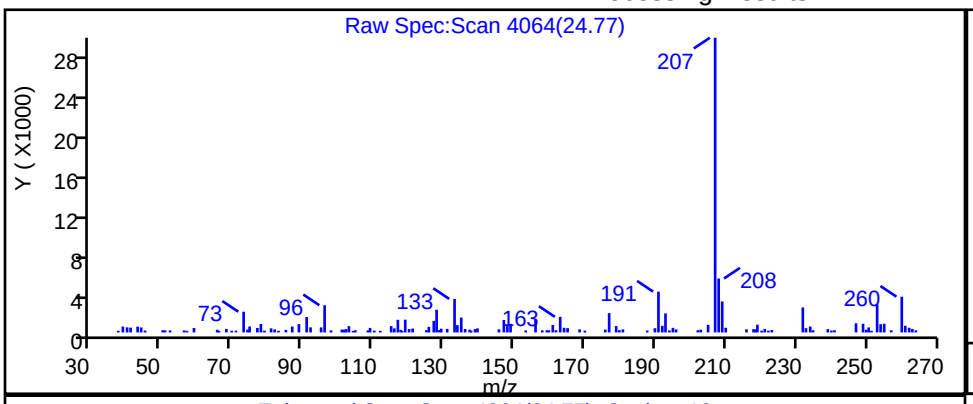
User Disabled Compound Report

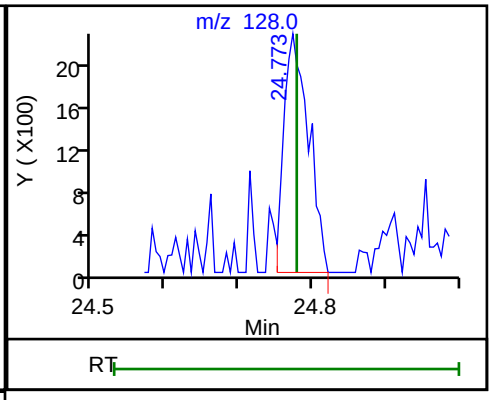
TestAmerica Burlington

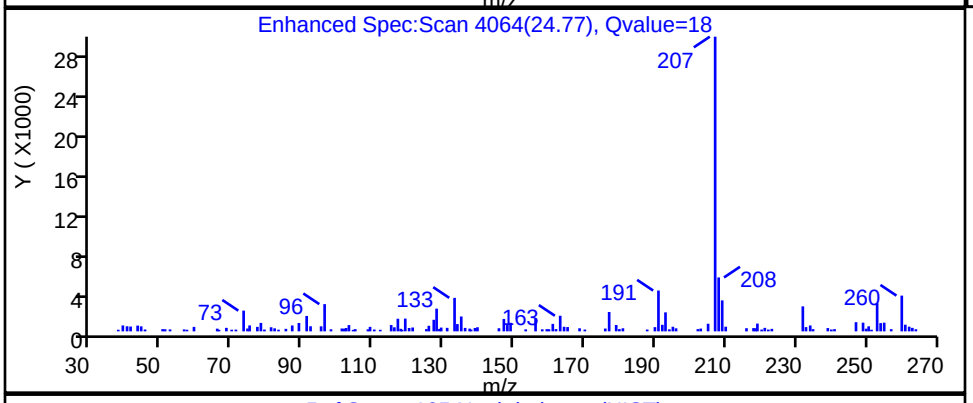
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D | | | | |
| Injection Date: | 06-Dec-2018 04:21:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

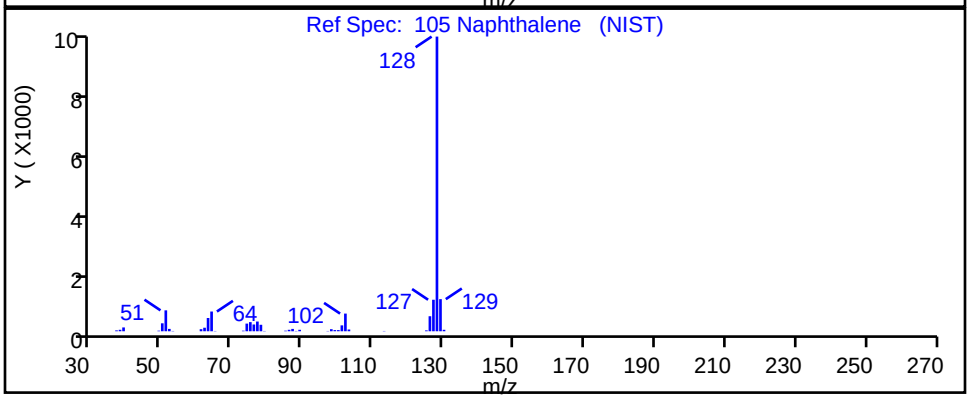
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.77 | 128.00 | 5271 | 0.021191 |

Reviewer: bunmaa, 06-Dec-2018 17:33:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 DL | Lab Sample ID: 200-46353-2 DL

Matrix: Air | Lab File ID: 33574-06.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 20(mL) | Date Analyzed: 12/07/2018 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 5.0 | U | 5.0 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 5.0 | U | 5.0 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 2.0 | U | 2.0 | |
| 74-87-3 | Chloromethane | 50.49 | 5.0 | U | 5.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.0 | U | 5.0 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.78 | U | 0.78 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 2.0 | U | 2.0 | |
| 74-83-9 | Bromomethane | 94.94 | 2.0 | U | 2.0 | |
| 75-00-3 | Chloroethane | 64.52 | 5.0 | U | 5.0 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 2.0 | U | 2.0 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 2.0 | U | 2.0 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 2.0 | U | 2.0 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.35 | U | 0.35 | |
| 67-64-1 | Acetone | 58.08 | 130 | D | 50 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 50 | U | 50 | |
| 75-15-0 | Carbon disulfide | 76.14 | 5.0 | U | 5.0 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 5.0 | U | 5.0 | |
| 75-09-2 | Methylene Chloride | 84.93 | 5.0 | U | 5.0 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 50 | U | 50 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 2.0 | U | 2.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 2.0 | U | 2.0 | |
| 110-54-3 | n-Hexane | 86.17 | 2.0 | U | 2.0 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 2.0 | U | 2.0 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 5.0 | U | 5.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.50 | U | 0.50 | |
| 67-66-3 | Chloroform | 119.38 | 2.0 | U | 2.0 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 50 | U | 50 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 2.0 | U | 2.0 | |
| 110-82-7 | Cyclohexane | 84.16 | 2.0 | U | 2.0 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.35 | U | 0.35 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 2.0 | U | 2.0 | |
| 71-43-2 | Benzene | 78.11 | 2.0 | U | 2.0 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 2.0 | U | 2.0 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 DL | Lab Sample ID: 200-46353-2 DL

Matrix: Air | Lab File ID: 33574-06.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 20(mL) | Date Analyzed: 12/07/2018 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 2.0 | U | 2.0 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.35 | U | 0.35 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 5.0 | U | 5.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 2.0 | U | 2.0 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 50 | U | 50 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 2.0 | U | 2.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 2.0 | U | 2.0 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 5.0 | U | 5.0 | |
| 108-88-3 | Toluene | 92.14 | 2.0 | U | 2.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 2.0 | U | 2.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 2.0 | U | 2.0 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 2.0 | U | 2.0 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 5.0 | U | 5.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 2.0 | U | 2.0 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 2.0 | U | 2.0 | |
| 108-90-7 | Chlorobenzene | 112.56 | 2.0 | U | 2.0 | |
| 100-41-4 | Ethylbenzene | 106.17 | 2.0 | U | 2.0 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 8.8 | D | 5.0 | |
| 95-47-6 | o-Xylene | 106.17 | 3.0 | D | 2.0 | |
| 100-42-5 | Styrene | 104.15 | 2.0 | U | 2.0 | |
| 75-25-2 | Bromoform | 252.75 | 2.0 | U | 2.0 | |
| 98-82-8 | Cumene | 120.19 | 2.0 | U | 2.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 2.0 | U | 2.0 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 2.0 | U | 2.0 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 2.0 | U | 2.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 2.0 | U | 2.0 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 2.0 | U | 2.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 2.0 | U | 2.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 2.0 | U | 2.0 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 2.0 | U | 2.0 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 2.0 | U | 2.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 2.0 | U | 2.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 2.0 | U | 2.0 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 DL  Lab Sample ID: 200-46353-2 DL

Matrix: Air  Lab File ID: 33574-06.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:44

Sample wt/vol: 20(mL)  Date Analyzed: 12/07/2018 16:45

Soil Aliquot Vol:  Dilution Factor: 10

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137900  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| *100-44-7* | *Benzyl chloride* | *126.58* | *2.0* | *U* | *2.0* | |
| *104-51-8* | *n-Butylbenzene* | *134.22* | *2.0* | *U* | *2.0* | |
| *95-50-1* | *1,2-Dichlorobenzene* | *147.00* | *2.0* | *U* | *2.0* | |
| *120-82-1* | *1,2,4-Trichlorobenzene* | *181.45* | *5.0* | *U* | *5.0* | |
| *87-68-3* | *Hexachlorobutadiene* | *260.76* | *2.0* | *U* | *2.0* | |
| *91-20-3* | *Naphthalene* | *128.17* | *5.0* | *U* | *5.0* | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 DL | Lab Sample ID: 200-46353-2 DL

Matrix: Air | Lab File ID: 33574-06.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 20(mL) | Date Analyzed: 12/07/2018 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 25 | U | 25 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 18 | U | 18 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 14 | U | 14 | |
| 74-87-3 | Chloromethane | 50.49 | 10 | U | 10 | |
| 106-97-8 | n-Butane | 58.12 | 12 | U | 12 | |
| 75-01-4 | Vinyl chloride | 62.50 | 2.0 | U | 2.0 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 4.4 | U | 4.4 | |
| 74-83-9 | Bromomethane | 94.94 | 7.8 | U | 7.8 | |
| 75-00-3 | Chloroethane | 64.52 | 13 | U | 13 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 8.7 | U | 8.7 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 11 | U | 11 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 15 | U | 15 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 1.4 | U | 1.4 | |
| 67-64-1 | Acetone | 58.08 | 310 | D | 120 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 120 | U | 120 | |
| 75-15-0 | Carbon disulfide | 76.14 | 16 | U | 16 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 16 | U | 16 | |
| 75-09-2 | Methylene Chloride | 84.93 | 17 | U | 17 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 150 | U | 150 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 7.2 | U | 7.2 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 7.9 | U | 7.9 | |
| 110-54-3 | n-Hexane | 86.17 | 7.0 | U | 7.0 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 8.1 | U | 8.1 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 15 | U | 15 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 2.0 | U | 2.0 | |
| 67-66-3 | Chloroform | 119.38 | 9.8 | U | 9.8 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 150 | U | 150 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 11 | U | 11 | |
| 110-82-7 | Cyclohexane | 84.16 | 6.9 | U | 6.9 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 2.2 | U | 2.2 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 9.3 | U | 9.3 | |
| 71-43-2 | Benzene | 78.11 | 6.4 | U | 6.4 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 8.1 | U | 8.1 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 DL | Lab Sample ID: 200-46353-2 DL

Matrix: Air | Lab File ID: 33574-06.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 20(mL) | Date Analyzed: 12/07/2018 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 8.2 | U | 8.2 | |
| 79-01-6 | Trichloroethene | 131.39 | 1.9 | U | 1.9 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 20 | U | 20 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 9.2 | U | 9.2 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 180 | U | 180 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 13 | U | 13 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 9.1 | U | 9.1 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 20 | U | 20 | |
| 108-88-3 | Toluene | 92.14 | 7.5 | U | 7.5 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 9.1 | U | 9.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 11 | U | 11 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 14 | U | 14 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 20 | U | 20 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 17 | U | 17 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 15 | U | 15 | |
| 108-90-7 | Chlorobenzene | 112.56 | 9.2 | U | 9.2 | |
| 100-41-4 | Ethylbenzene | 106.17 | 8.7 | U | 8.7 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 38 | D | 22 | |
| 95-47-6 | o-Xylene | 106.17 | 13 | D | 8.7 | |
| 100-42-5 | Styrene | 104.15 | 8.5 | U | 8.5 | |
| 75-25-2 | Bromoform | 252.75 | 21 | U | 21 | |
| 98-82-8 | Cumene | 120.19 | 9.8 | U | 9.8 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 14 | U | 14 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 9.8 | U | 9.8 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 9.8 | U | 9.8 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 9.8 | U | 9.8 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 10 | U | 10 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 11 | U | 11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 9.8 | U | 9.8 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 11 | U | 11 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 11 | U | 11 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 12 | U | 12 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 12 | U | 12 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 DL Lab Sample ID: 200-46353-2 DL

Matrix: Air Lab File ID: 33574-06.D

Analysis Method: TO-15 Date Collected: 11/20/2018 13:44

Sample wt/vol: 20(mL) Date Analyzed: 12/07/2018 16:45

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137900 Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| *100-44-7* | *Benzyl chloride* | *126.58* | *10* | *U* | *10* | |
| *104-51-8* | *n-Butylbenzene* | *134.22* | *11* | *U* | *11* | |
| *95-50-1* | *1,2-Dichlorobenzene* | *147.00* | *12* | *U* | *12* | |
| *120-82-1* | *1,2,4-Trichlorobenzene* | *181.45* | *37* | *U* | *37* | |
| *87-68-3* | *Hexachlorobutadiene* | *260.76* | *21* | *U* | *21* | |
| *91-20-3* | *Naphthalene* | *128.17* | *26* | *U* | *26* | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D
Lims ID: 200-46353-A-2
Client ID: IA-1_20181120
Sample Type: Client
Inject. Date: 07-Dec-2018 16:45:30 ALS Bottle#: 10 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 10.0000
Sample Info: 200-0033574-007
Misc. Info.: 46353-7
Operator ID: ggg Instrument ID: CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: tobere Date: 10-Dec-2018 15:05:33

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.032 | 3.031 | 0.001 | 50 | 1284 | 0.0296 | |
| 3 Chlorodifluoromethane | 51 | | 3.079 | | | | ND | U |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.287 | | | | ND | |
| 5 Chloromethane | 50 | | 3.416 | | | | ND | |
| 6 Butane | 43 | 3.624 | 3.618 | 0.006 | 88 | 1632 | 0.1332 | M |
| 7 Vinyl chloride | 62 | | 3.656 | | | | ND | |
| 8 Butadiene | 54 | | 3.730 | | | | ND | |
| 10 Bromomethane | 94 | | 4.398 | | | | ND | |
| 11 Chloroethane | 64 | | 4.632 | | | | ND | |
| 13 Vinyl bromide | 106 | | 5.022 | | | | ND | |
| 14 Trichlorofluoromethane | 101 | | 5.134 | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 6.223 | | | | ND | |
| 21 1,1-Dichloroethene | 96 | | 6.244 | | | | ND | |
| 22 Acetone | 43 | 6.468 | 6.468 | 0.000 | 100 | 228680 | 13.0 | |
| 23 Carbon disulfide | 76 | | 6.628 | | | | ND | |
| 24 Isopropyl alcohol | 45 | | 6.788 | | | | ND | |
| 25 3-Chloro-1-propene | 41 | | 7.039 | | | | ND | |
| 27 Methylene Chloride | 49 | | 7.333 | | | | ND | |
| 28 2-Methyl-2-propanol | 59 | | 7.568 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 7.749 | | | | ND | |
| 31 trans-1,2-Dichloroethene | 61 | | 7.781 | | | | ND | |
| 33 Hexane | 57 | | 8.192 | | | | ND | |
| 34 1,1-Dichloroethane | 63 | | 8.646 | | | | ND | |
| 37 cis-1,2-Dichloroethene | 96 | | 9.766 | | | | ND | |
| 38 2-Butanone (MEK) | 72 | | 9.804 | | | | ND | |
| * 40 Chlorobromomethane | 128 | 10.220 | 10.225 | -0.005 | 86 | 221752 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 10.231 | | | | ND | |
| 42 Chloroform | 83 | 10.375 | 10.370 | 0.005 | 92 | 2070 | 0.0711 | |
| 43 Cyclohexane | 84 | | 10.620 | | | | ND | |
| 44 1,1,1-Trichloroethane | 97 | | 10.642 | | | | ND | |
| 45 Carbon tetrachloride | 117 | | 10.898 | | | | ND | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 46 Isooctane | 57 | | 11.346 | | | | ND | |
| | 47 Benzene | 78 | 11.341 | 11.346 | -0.005 | 1 | 1330 | 0.0337 | |
| | 48 1,2-Dichloroethane | 62 | | 11.528 | | | | ND | |
| | 49 n-Heptane | 43 | | 11.752 | | | | ND | |
| * | 50 1,4-Difluorobenzene | 114 | 12.206 | 12.205 | 0.001 | 96 | 1256820 | 10.0 | |
| | 53 Trichloroethene | 95 | | 12.675 | | | | ND | |
| | 54 1,2-Dichloropropane | 63 | | 13.219 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 13.417 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 13.449 | | | | ND | |
| | 58 Dichlorobromomethane | 83 | | 13.796 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 14.746 | | | | ND | |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 15.023 | | | | ND | |
| | 65 Toluene | 92 | 15.338 | 15.338 | 0.000 | 89 | 2225 | 0.0656 | |
| | 66 trans-1,3-Dichloropropene | 75 | | 15.941 | | | | ND | |
| | 67 1,1,2-Trichloroethane | 83 | | 16.315 | | | | ND | |
| | 68 Tetrachloroethene | 166 | | 16.438 | | | | ND | |
| | 69 2-Hexanone | 43 | | 16.763 | | | | ND | |
| | 71 Chlorodibromomethane | 129 | | 17.078 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 17.334 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 18.242 | 18.241 | 0.001 | 89 | 1235342 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 18.300 | | | | ND | |
| | 76 Ethylbenzene | 91 | 18.466 | 18.460 | 0.006 | 96 | 13268 | 0.1678 | |
| | 78 m-Xylene & p-Xylene | 106 | 18.711 | 18.711 | 0.000 | 0 | 25462 | 0.8756 | |
| | 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 99 | 8641 | 0.3035 | |
| | 80 Styrene | 104 | | 19.602 | | | | ND | U |
| | 81 Bromoform | 173 | | 20.035 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 20.259 | | | | ND | |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 20.926 | | | | ND | |
| | 85 N-Propylbenzene | 91 | | 21.006 | | | | ND | |
| | 88 4-Ethyltoluene | 105 | | 21.198 | | | | ND | |
| | 89 2-Chlorotoluene | 91 | | 21.203 | | | | ND | |
| | 90 1,3,5-Trimethylbenzene | 105 | | 21.310 | | | | ND | |
| | 92 tert-Butylbenzene | 119 | | 21.807 | | | | ND | |
| | 93 1,2,4-Trimethylbenzene | 105 | 21.903 | 21.903 | 0.000 | 88 | 1443 | 0.0180 | |
| | 94 sec-Butylbenzene | 105 | | 22.137 | | | | ND | U |
| | 95 4-Isopropyltoluene | 119 | | 22.346 | | | | ND | |
| | 96 1,3-Dichlorobenzene | 146 | 22.378 | 22.372 | 0.006 | 77 | 552 | 0.0102 | |
| | 97 1,4-Dichlorobenzene | 146 | | 22.506 | | | | ND | |
| | 98 Benzyl chloride | 91 | | 22.698 | | | | ND | |
| | 100 n-Butylbenzene | 91 | | 22.911 | | | | ND | |
| | 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 1 | 684 | 0.0130 | |
| | 103 1,2,4-Trichlorobenzene | 180 | 25.441 | 25.436 | 0.005 | 88 | 1429 | 0.0301 | |
| | 104 Hexachlorobutadiene | 225 | | 25.628 | | | | ND | |
| | 105 Naphthalene | 128 | 25.889 | 25.884 | 0.005 | 97 | 5049 | 0.0539 | M |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15CISs_00010 | Amount Added: | 20.00 | Units: mL | Run Reagent |

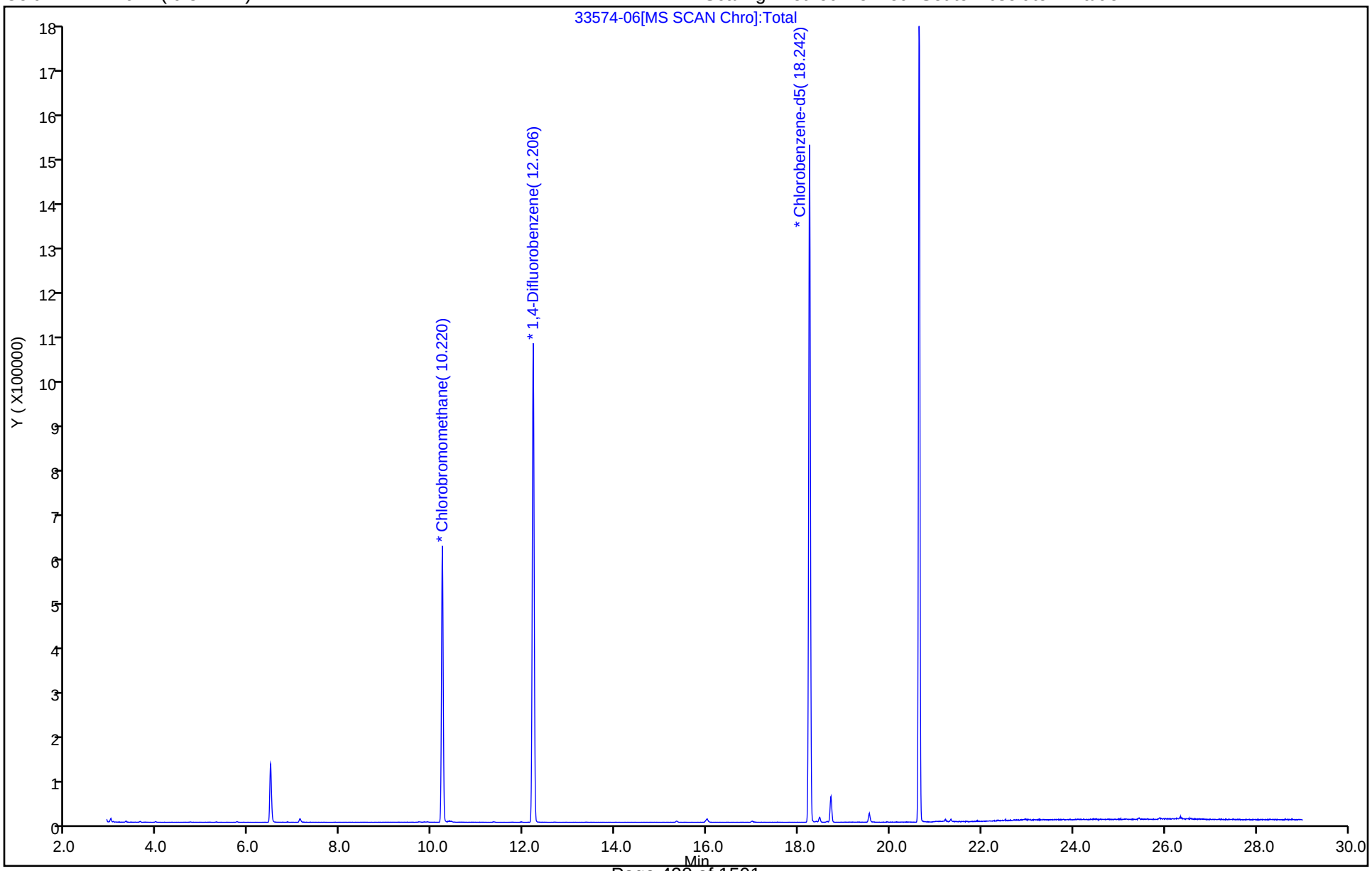
Report Date: 10-Dec-2018 17:28:01 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | Operator ID: | ggg |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | Worklist Smp#: | 7 |
| Client ID: | IA-1_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | ALS Bottle#: | 10 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



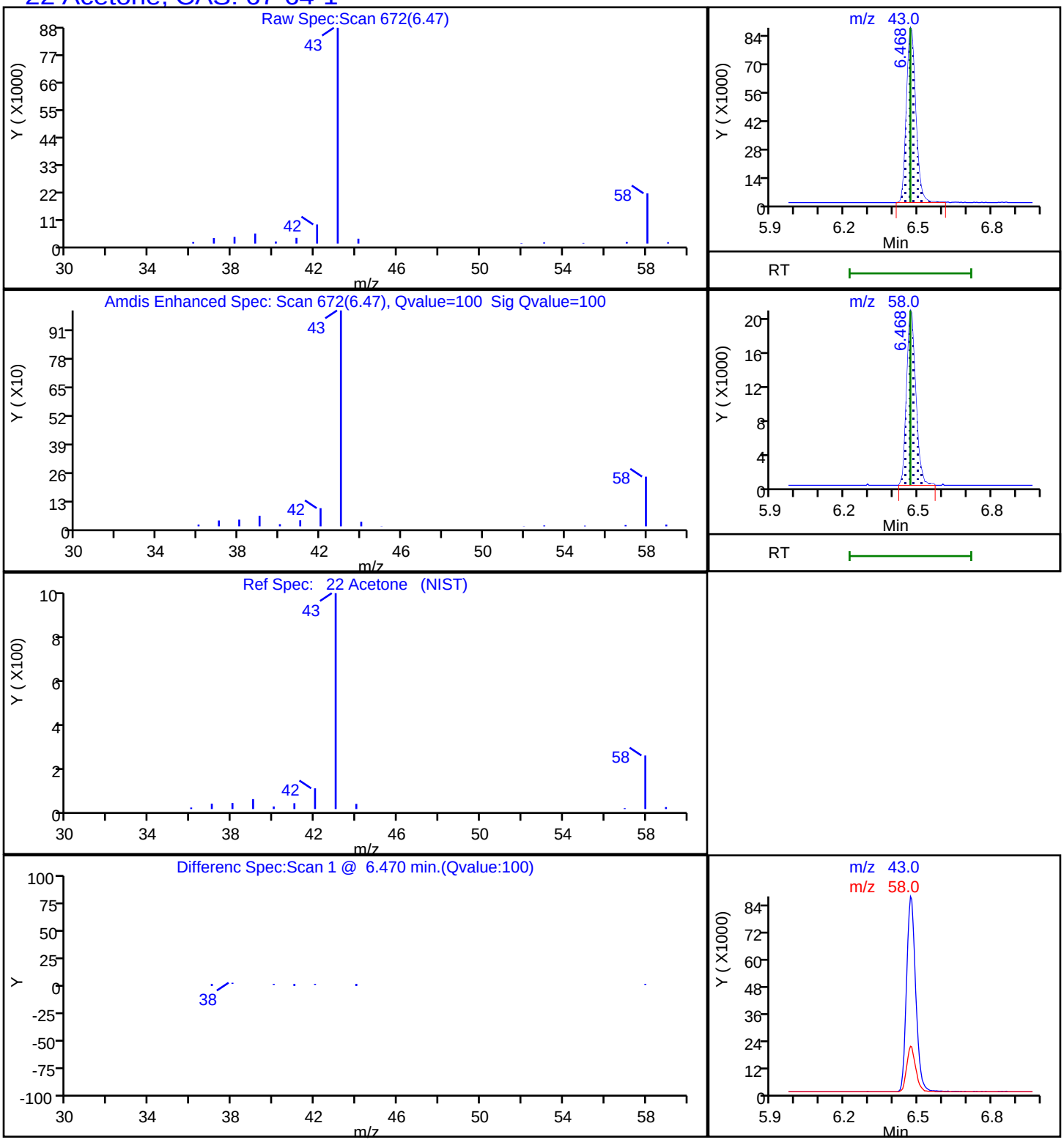
Report Date: 10-Dec-2018 17:28:01 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1

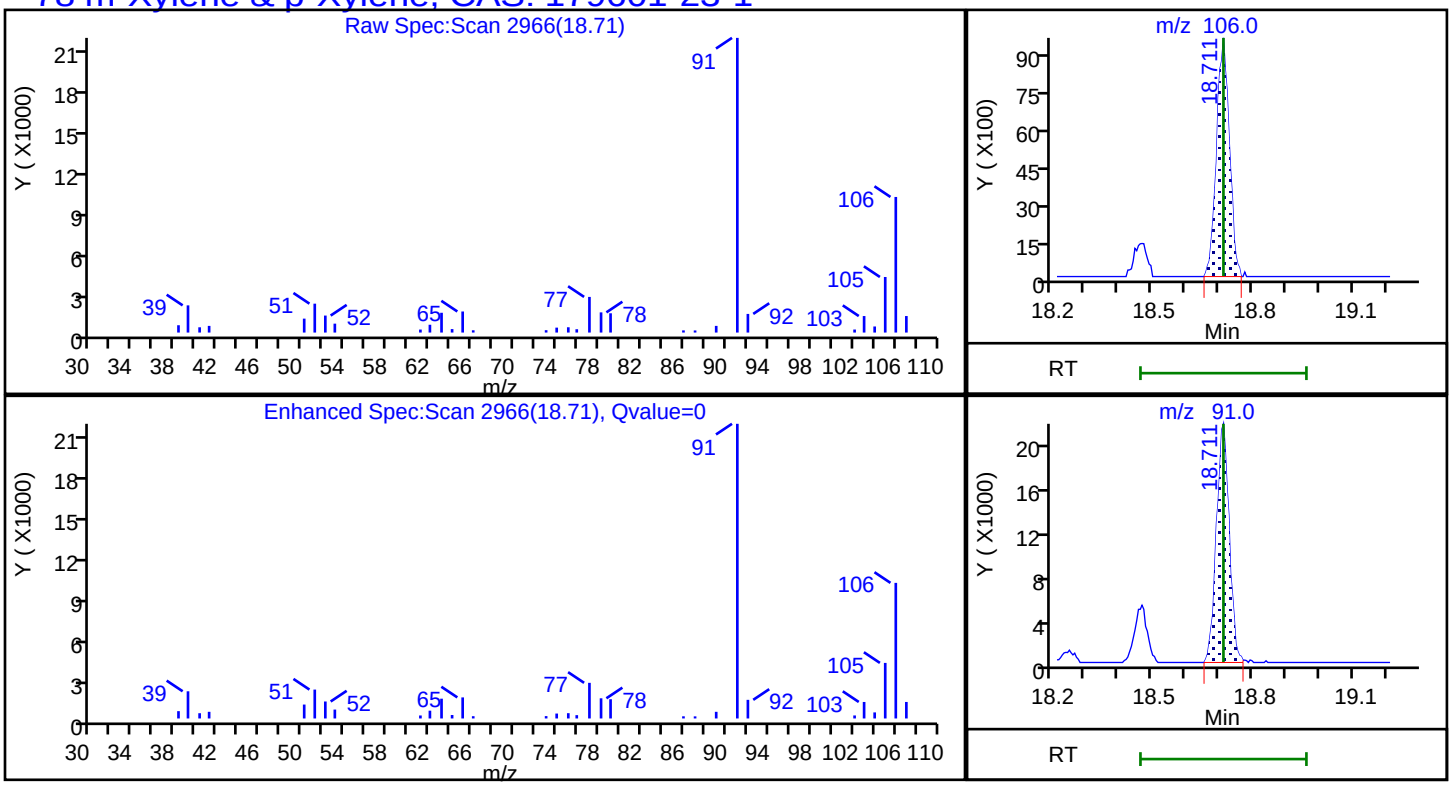


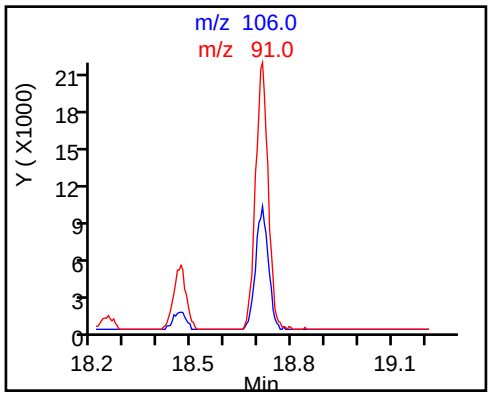
Report Date: 10-Dec-2018 17:28:01 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D | | | | |
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



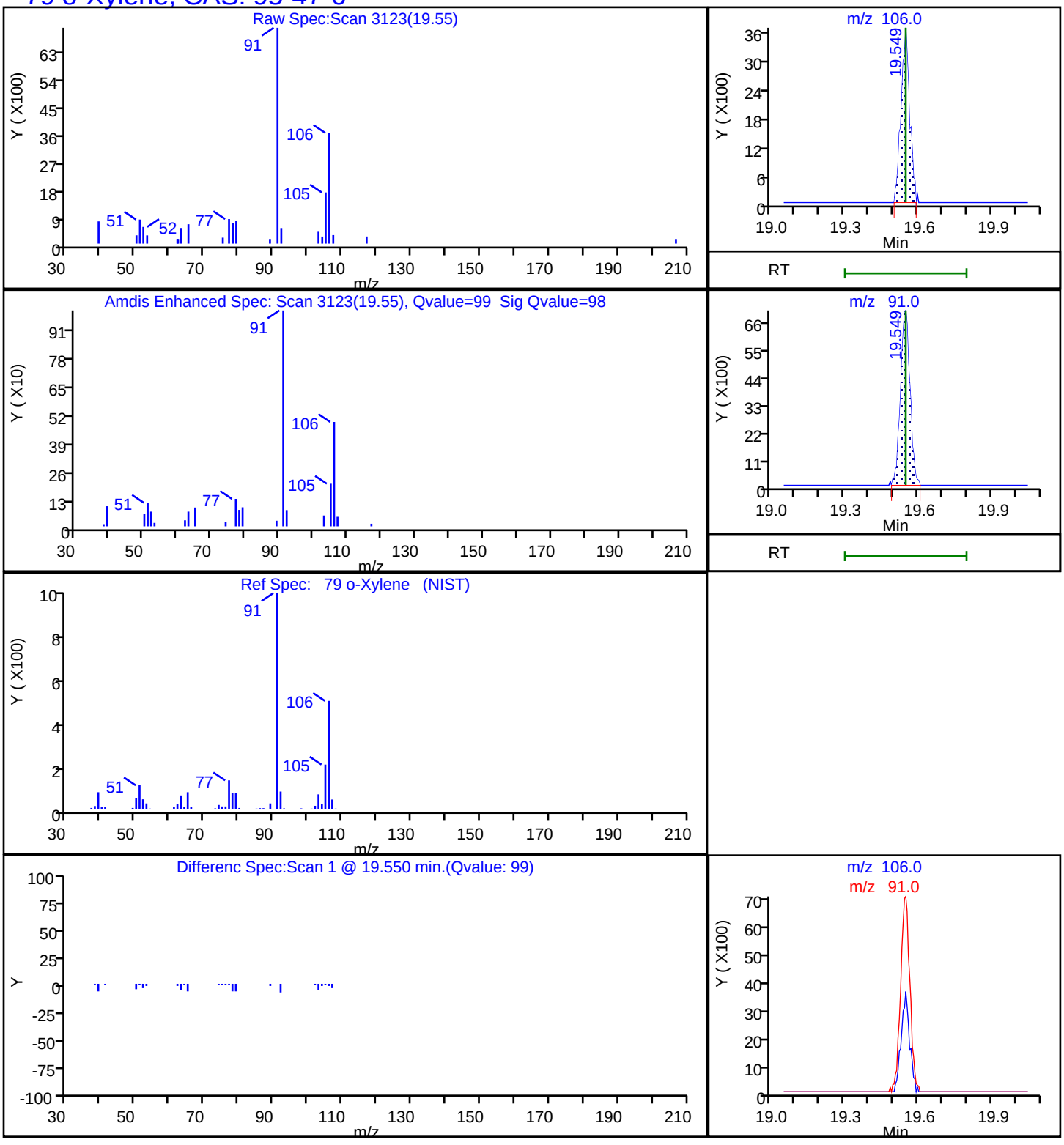
Report Date: 10-Dec-2018 17:28:01 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



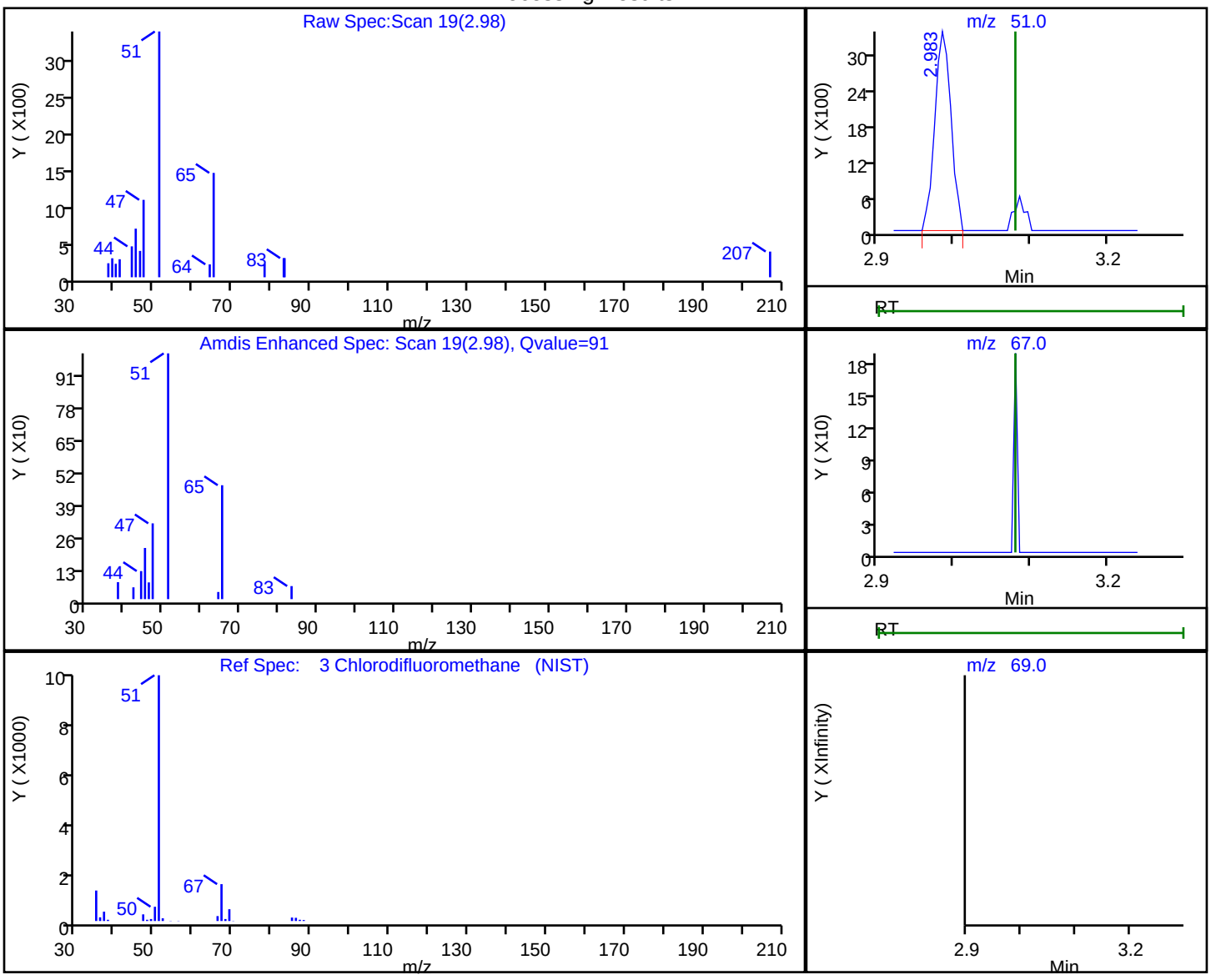
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D | | | | |
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 2.98 | 51.00 | 4883 | 0.223046 |
| 3.08 | 67.00 | 0 | |
| 3.08 | 69.00 | 0 | |

Reviewer: phamvu, 10-Dec-2018 17:25:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

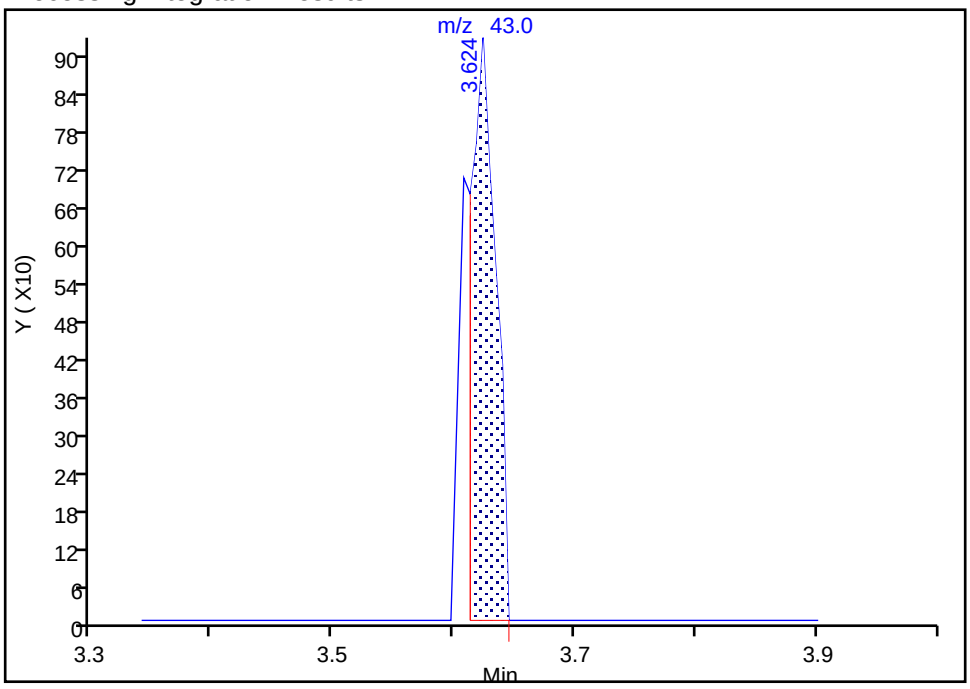
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D | | | | |
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8

Signal: 1

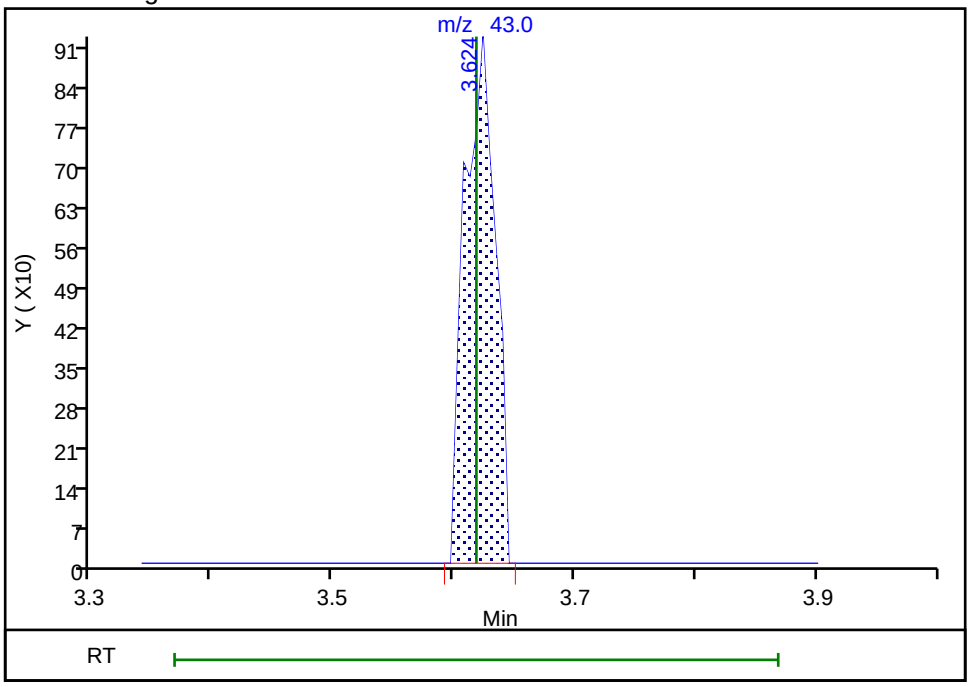
Processing Integration Results

RT: 3.62
Area: 1295
Amount: 0.105708
Amount Units: ppb v/v




Manual Integration Results

RT: 3.62
Area: 1632
Amount: 0.133216
Amount Units: ppb v/v




Reviewer: phamvu, 10-Dec-2018 17:25:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

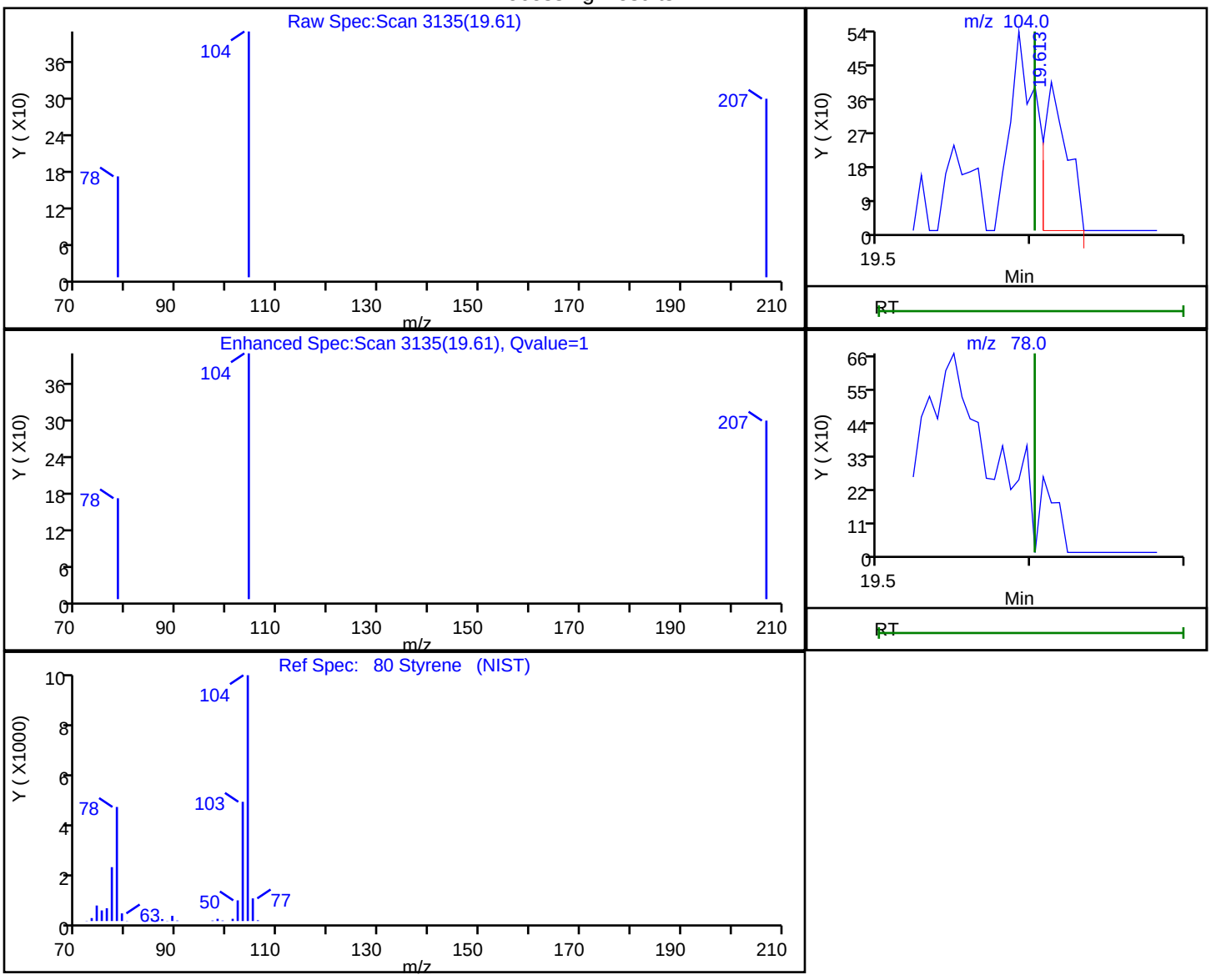
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D | | | | |
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.61 | 104.00 | 422 | 0.009601 |
| 19.60 | 78.00 | 0 | |

Reviewer: phamvu, 10-Dec-2018 17:26:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

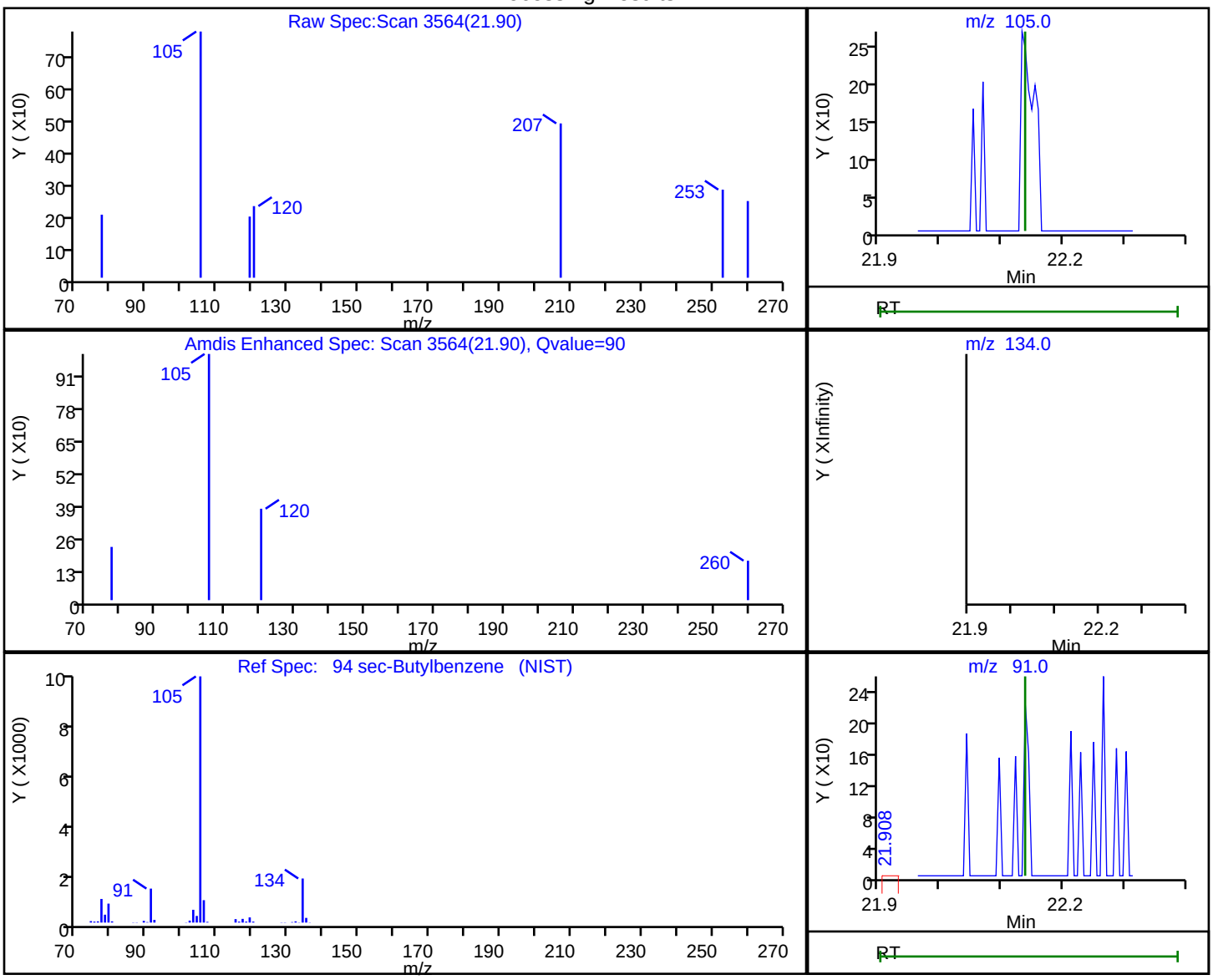
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D | | | | |
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.90 | 105.00 | 1443 | 0.013055 |
| 22.14 | 134.00 | 0 | |
| 21.91 | 91.00 | 197 | |

Reviewer: phamvu, 10-Dec-2018 17:26:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

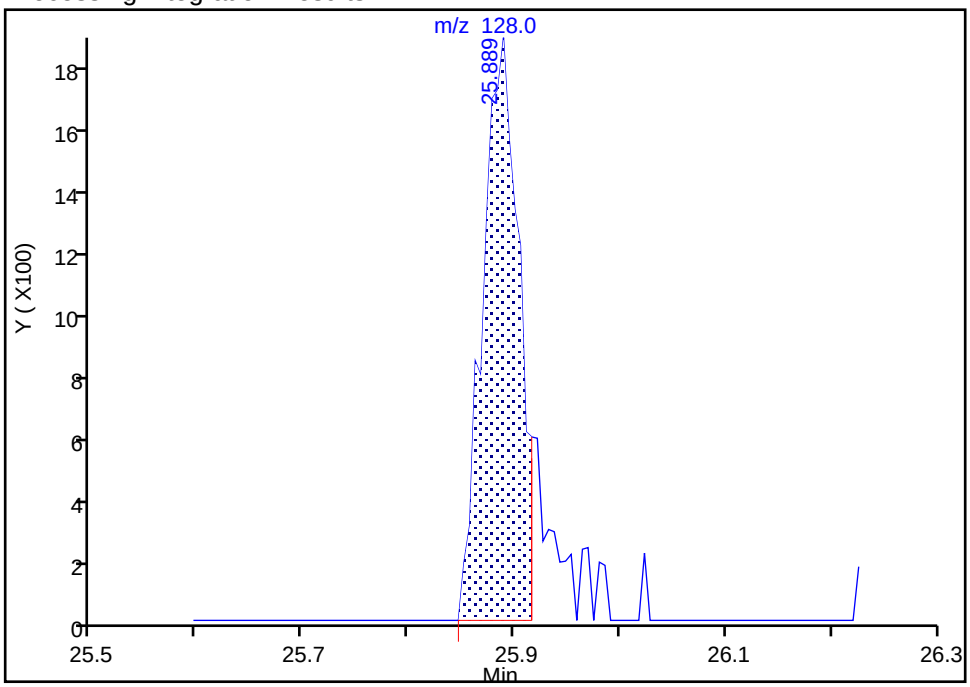
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D | | | | |
| Injection Date: | 07-Dec-2018 16:45:30 | Instrument ID: | CHC.i | | |
| Lims ID: | 200-46353-A-2 | Lab Sample ID: | 200-46353-2 | | |
| Client ID: | IA-1_20181120 | | | | |
| Operator ID: | ggg | ALS Bottle#: | 10 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 10.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 105 Naphthalene, CAS: 91-20-3

Signal: 1

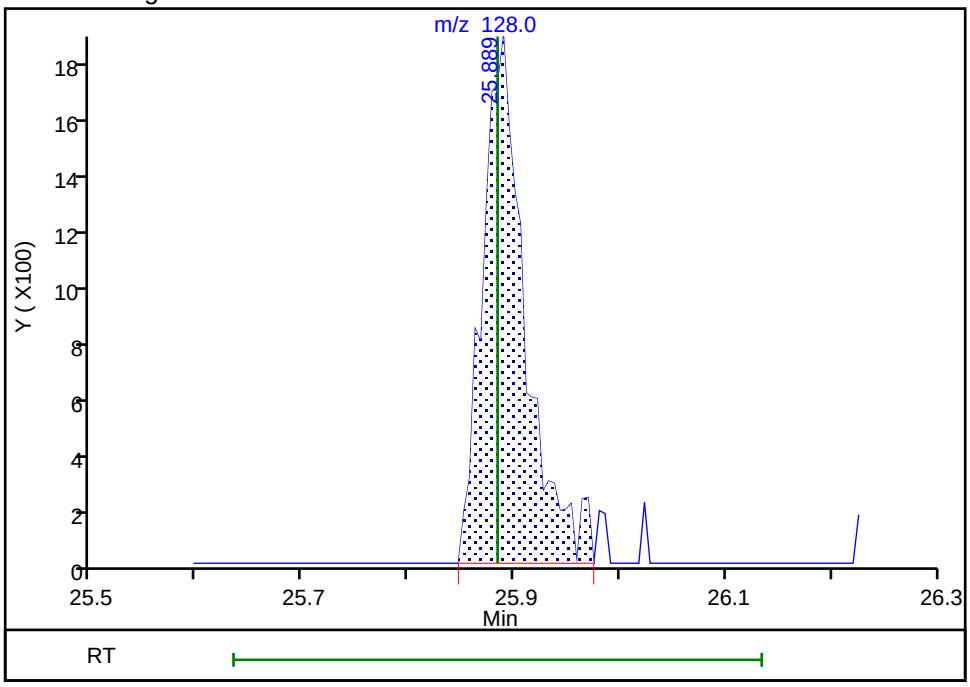
Processing Integration Results

RT: 25.89
Area: 4288
Amount: 0.045750
Amount Units: ppb v/v




Manual Integration Results

RT: 25.89
Area: 5049
Amount: 0.053869
Amount Units: ppb v/v




Reviewer: phamvu, 10-Dec-2018 17:26:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120  Lab Sample ID: 200-46353-3

Matrix: Air  Lab File ID: 200-33531-019.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.58 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.57 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.55 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.3 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.27 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 5.7 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.42 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.1 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.30 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.070 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.32 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.39 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.93 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120  Lab Sample ID: 200-46353-3

Matrix: Air  Lab File ID: 200-33531-019.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.9 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 2.0 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.5 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 13 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.5 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 6.2 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.0 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.44 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 1.5 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.2 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.5 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 Lab Sample ID: 200-46353-3

Matrix: Air Lab File ID: 200-33531-019.D

Analysis Method: TO-15 Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137819 Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D
Lims ID: 200-46353-A-3
Client ID: IA-2_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 05:11:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-019
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:00:16 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: bunmaa Date: 07-Dec-2018 09:00:16

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.153 | -0.011 | 99 | 120873 | 0.5806 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.179 | -0.005 | 96 | 50866 | 0.5740 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | ND | MU |
| 5 Chloromethane | 50 | 3.454 | 3.463 | -0.011 | 99 | 22143 | 0.5466 | |
| 6 Butane | 43 | 3.604 | 3.598 | 0.000 | 95 | 128060 | 2.35 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | U |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | U |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.754 | -0.001 | 98 | 44120 | 0.2682 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.621 | 5.599 | 0.016 | 94 | 13387 | 0.1155 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.856 | 5.853 | 0.000 | 99 | 245984 | 5.66 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.011 | -0.006 | 78 | 2627 | 0.0200 | M |
| 24 Isopropyl alcohol | 45 | 6.113 | 6.093 | 0.016 | 100 | 72875 | 1.52 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | Ua |
| 27 Methylene Chloride | 49 | 6.552 | 6.552 | -0.005 | 87 | 11650 | 0.2531 | |
| 28 2-Methyl-2-propanol | 59 | | 6.771 | | | | ND | U |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | |
| 33 Hexane | 57 | 7.279 | 7.275 | 0.000 | 91 | 20659 | 0.4194 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.799 | 8.788 | 0.006 | 99 | 32737 | 2.10 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.152 | 0.000 | 74 | 558007 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | U |
| 42 Chloroform | 83 | 9.269 | 9.264 | 0.000 | 45 | 4646 | 0.0399 | M |
| 43 Cyclohexane | 84 | 9.515 | 9.515 | -0.016 | 93 | 16714 | 0.3029 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | U |
| 45 Carbon tetrachloride | 117 | 9.778 | 9.778 | -0.005 | 84 | 9963 | 0.0698 | |
| 46 Isooctane | 57 | 10.195 | 10.190 | 0.000 | 95 | 58491 | 0.3205 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 47 Benzene | 78 | 10.211 | 10.216 | -0.005 | 95 | 49860 | 0.3895 | |
| 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| 49 n-Heptane | 43 | 10.553 | 10.553 | -0.022 | 91 | 12736 | 0.1934 | M |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2403809 | 10.0 | |
| 53 Trichloroethene | 95 | | 11.484 | | | | ND | |
| 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | U |
| 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | MU |
| 65 Toluene | 92 | 14.057 | 14.068 | -0.011 | 95 | 90800 | 0.9337 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| 68 Tetrachloroethene | 166 | 15.138 | 15.143 | -0.005 | 94 | 16006 | 0.1375 | |
| 69 2-Hexanone | 43 | | 15.507 | | | | ND | U |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * 74 Chlorobenzene-d5 | 117 | 16.951 | 16.957 | -0.006 | 84 | 2400767 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| 76 Ethylbenzene | 91 | 17.182 | 17.187 | 0.000 | 97 | 20370 | 0.0930 | |
| 78 m-Xylene & p-Xylene | 106 | 17.433 | 17.438 | 0.000 | 0 | 23084 | 0.2600 | |
| 79 o-Xylene | 106 | 18.294 | 18.294 | 0.000 | 97 | 8884 | 0.1053 | M |
| 80 Styrene | 104 | | 18.337 | | | | ND | Ua |
| 81 Bromoform | 173 | | 18.781 | | | | ND | |
| 82 Isopropylbenzene | 105 | | 19.049 | | | | ND | U |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| 85 N-Propylbenzene | 91 | | 19.846 | | | | ND | U |
| 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | U |
| 88 4-Ethyltoluene | 105 | 20.049 | 20.049 | -0.005 | 41 | 3128 | 0.0125 | a |
| 90 1,3,5-Trimethylbenzene | 105 | 20.167 | 20.167 | -0.010 | 54 | 3319 | 0.0155 | M |
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | 20.793 | 20.804 | -0.005 | 90 | 8812 | 0.0417 | |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| 95 4-Isopropyltoluene | 119 | | 21.269 | | | | ND | U |
| 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| 97 1,4-Dichlorobenzene | 146 | | 21.418 | | | | ND | U |
| 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

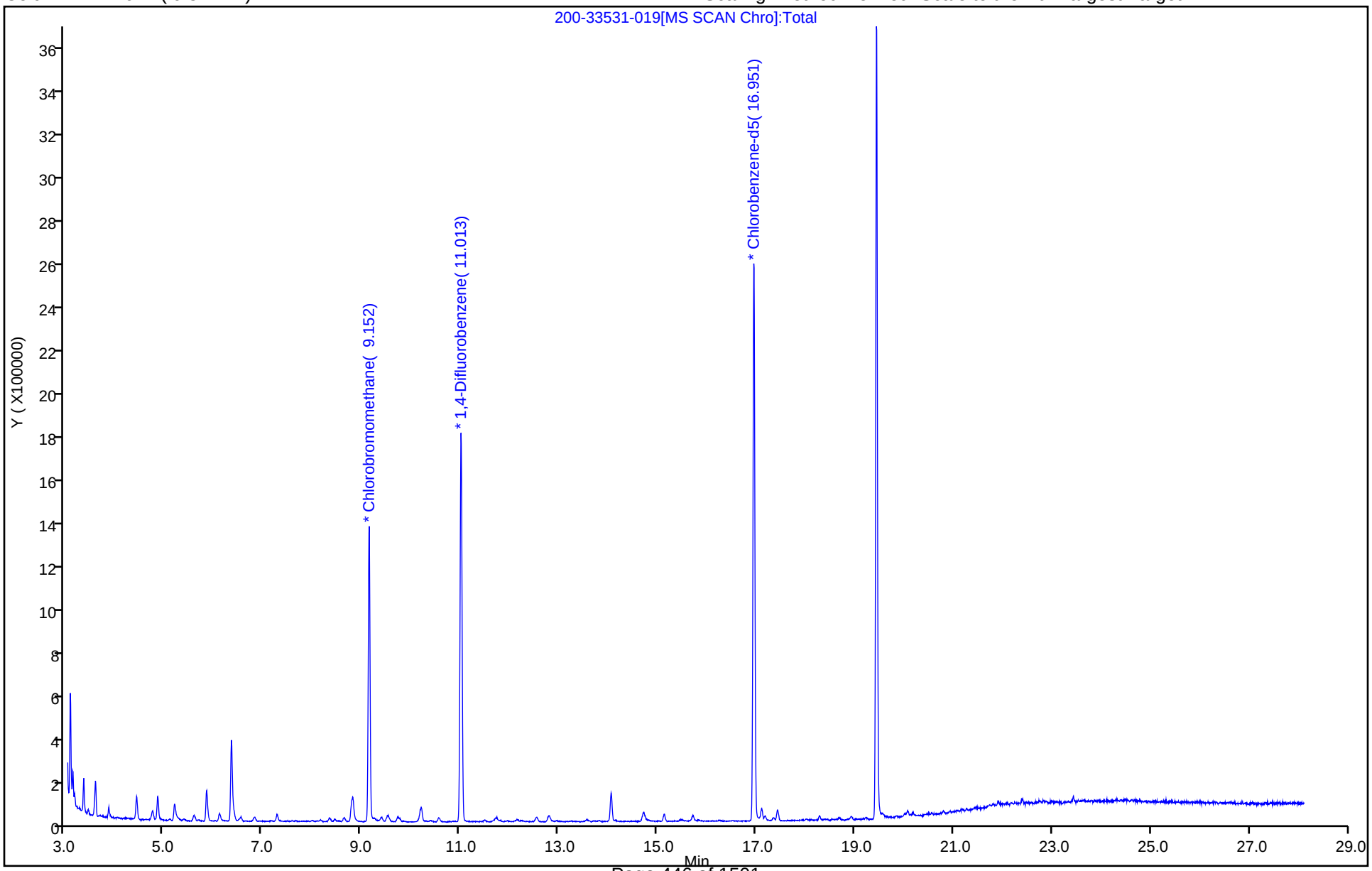
Report Date: 07-Dec-2018 09:00:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | Worklist Smp#: | 19 |
| Client ID: | IA-2_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 19 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 07-Dec-2018 09:00:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

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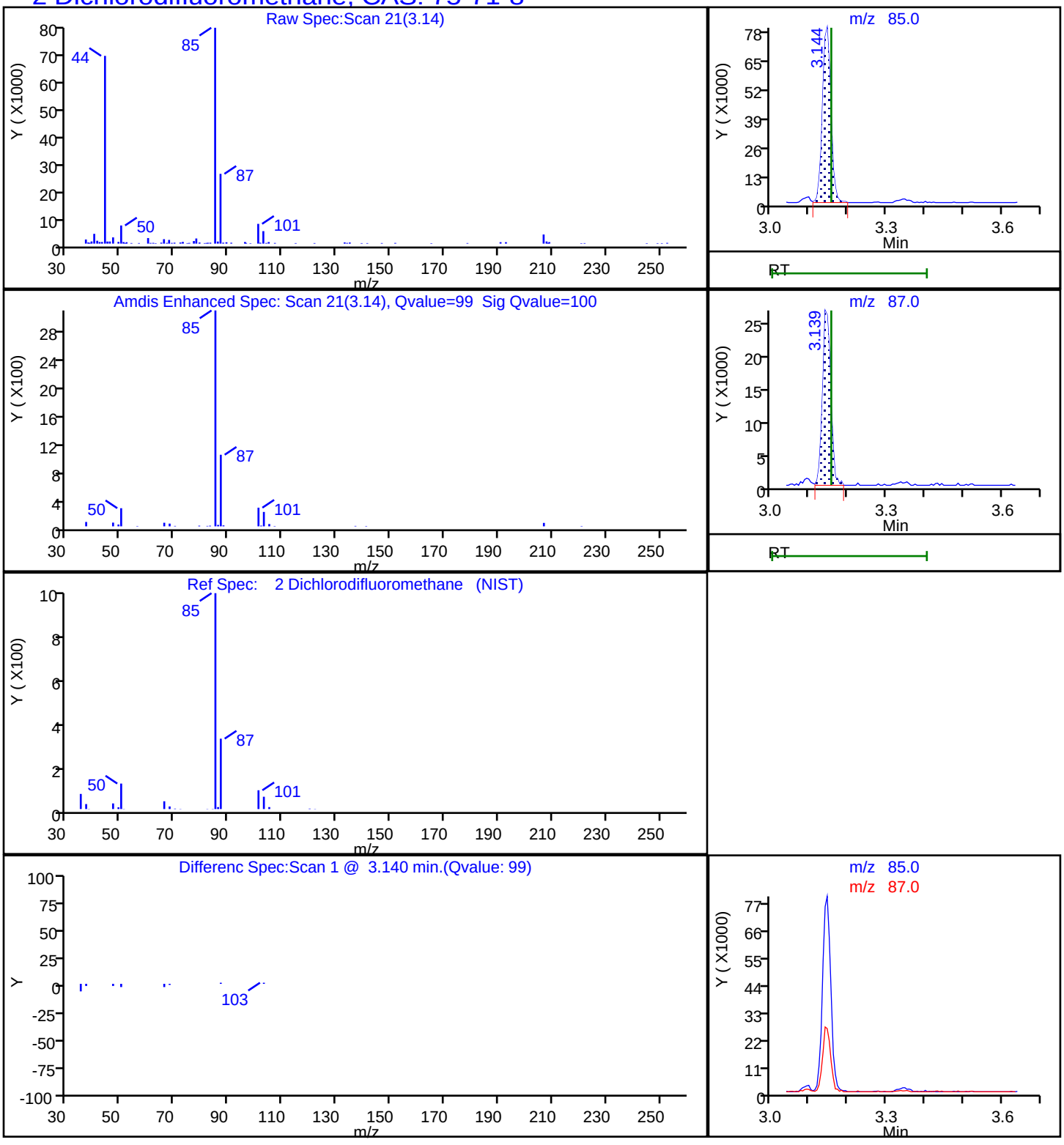
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 2 Dichlorodifluoromethane, CAS: 75-71-8



Report Date: 07-Dec-2018 09:00:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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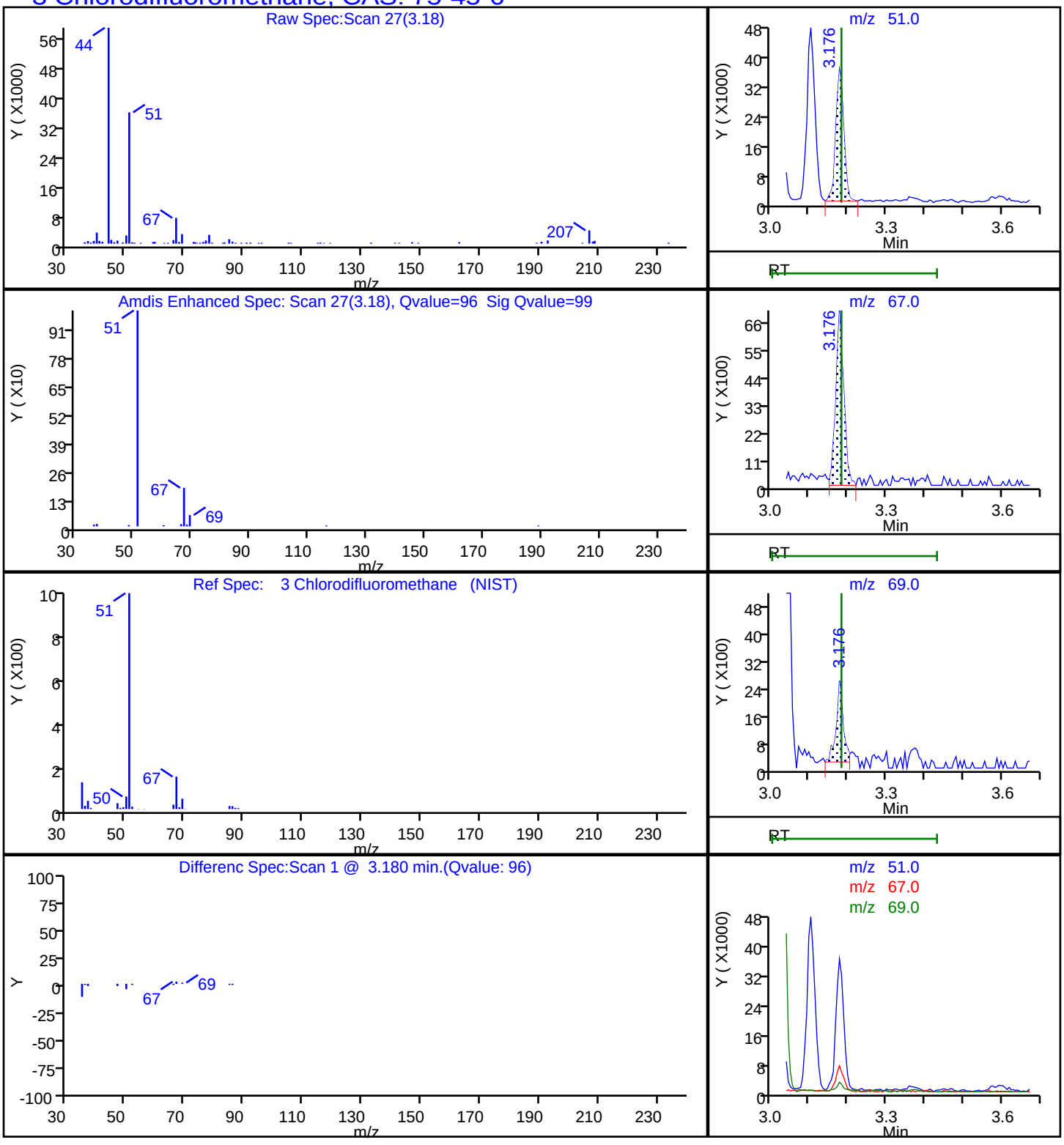
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6



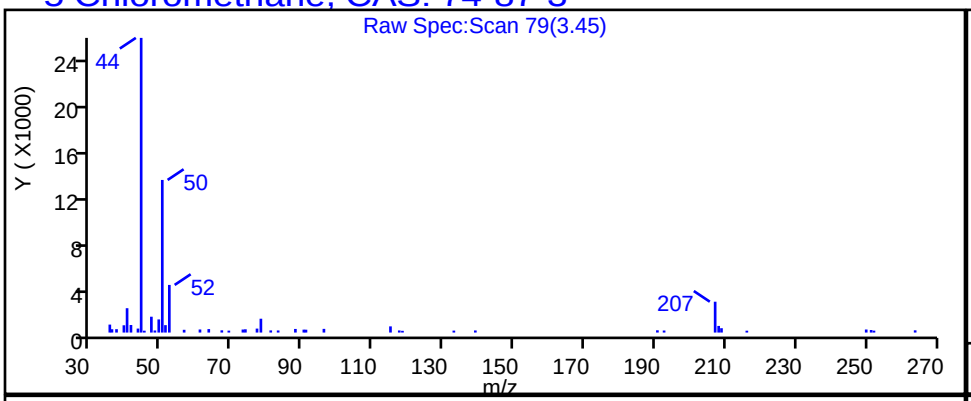
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

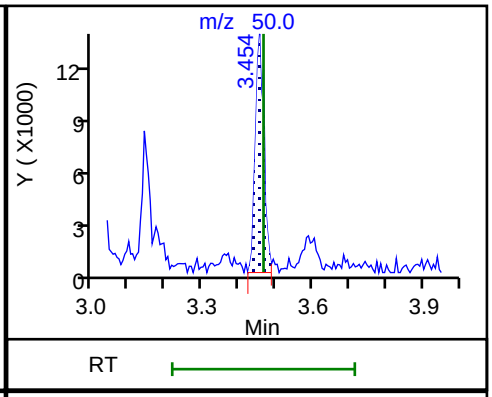
TestAmerica Burlington

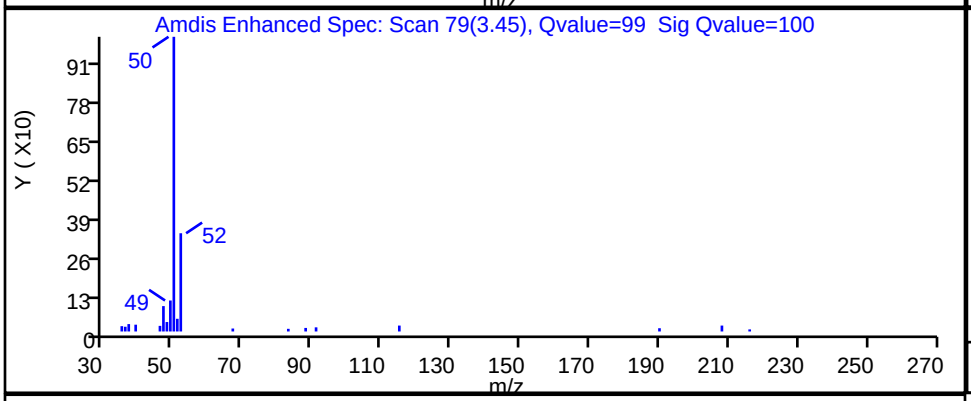
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

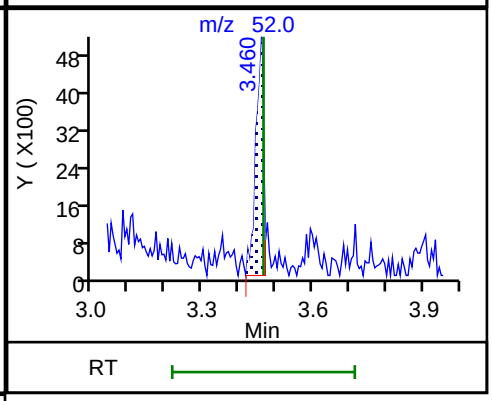
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

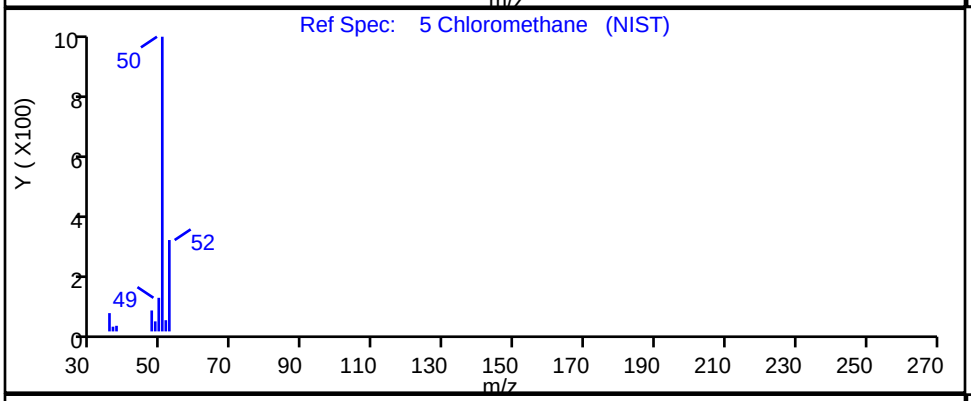
## 5 Chloromethane, CAS: 74-87-3

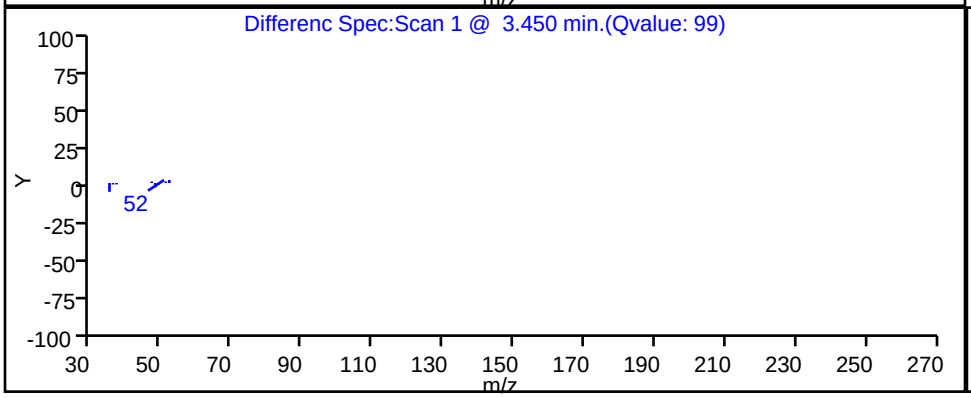


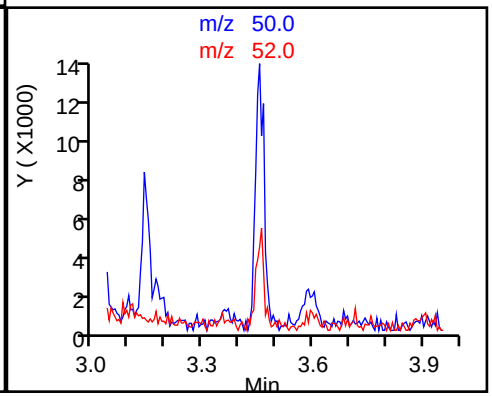



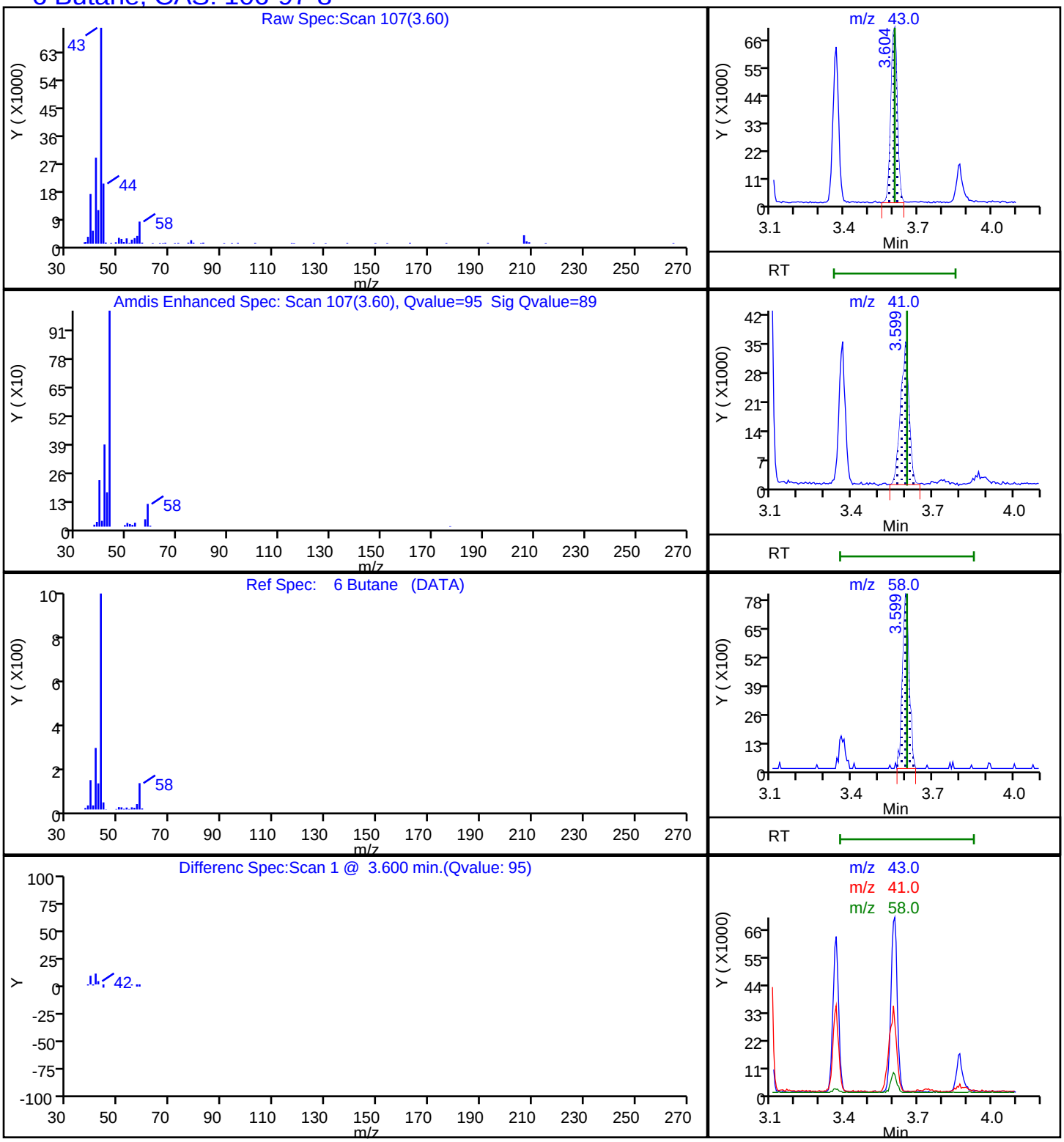



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



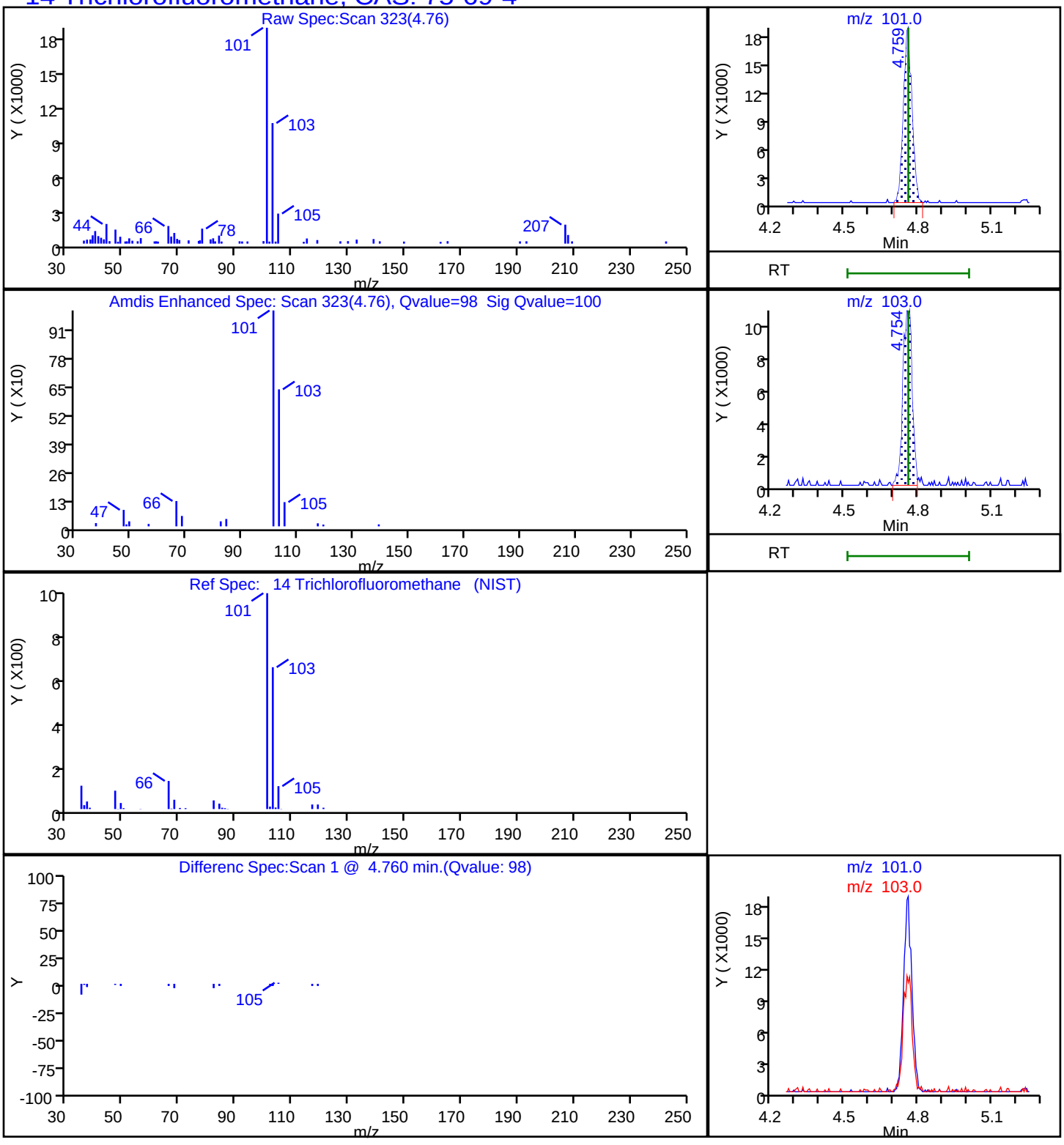
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4



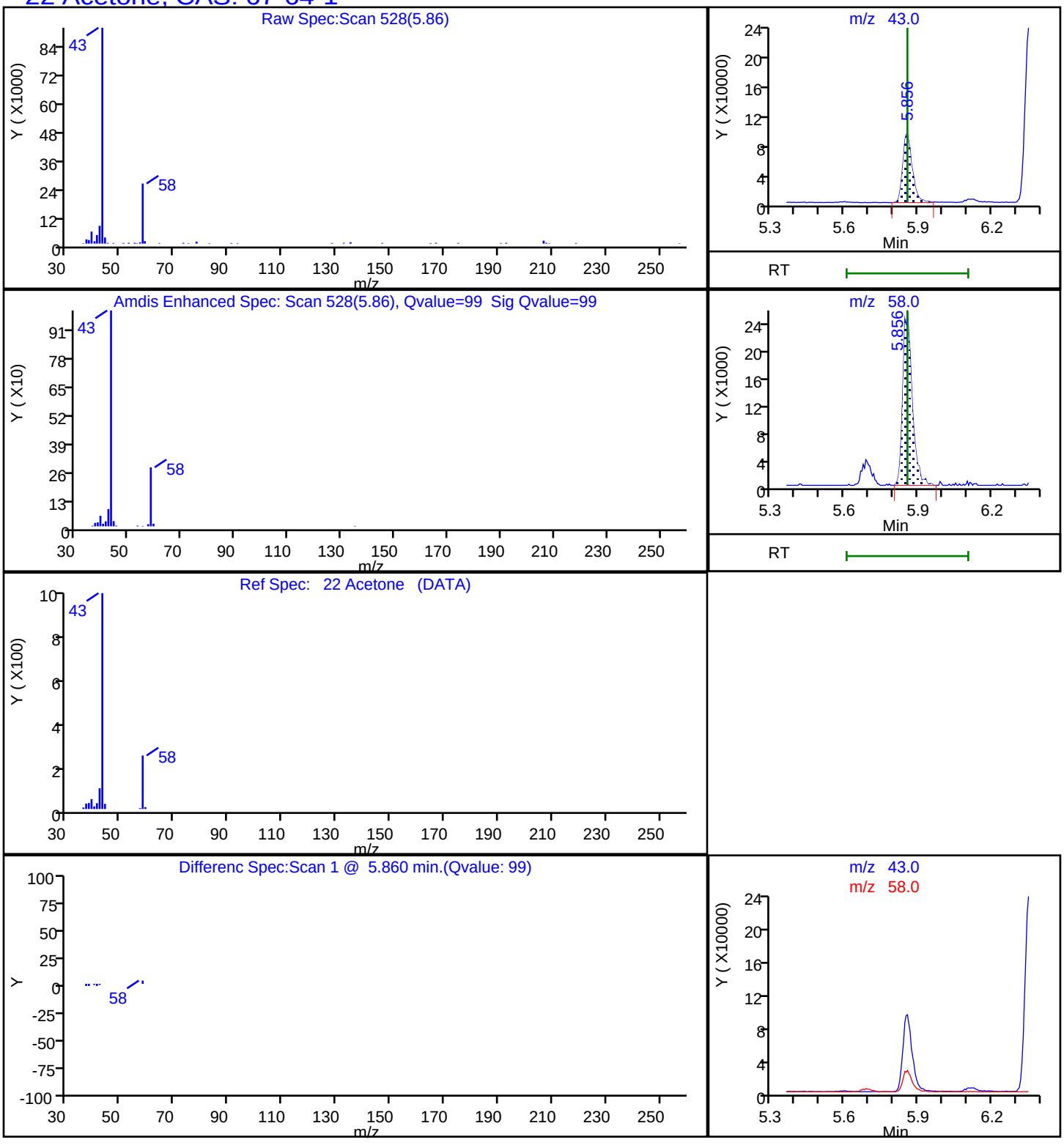
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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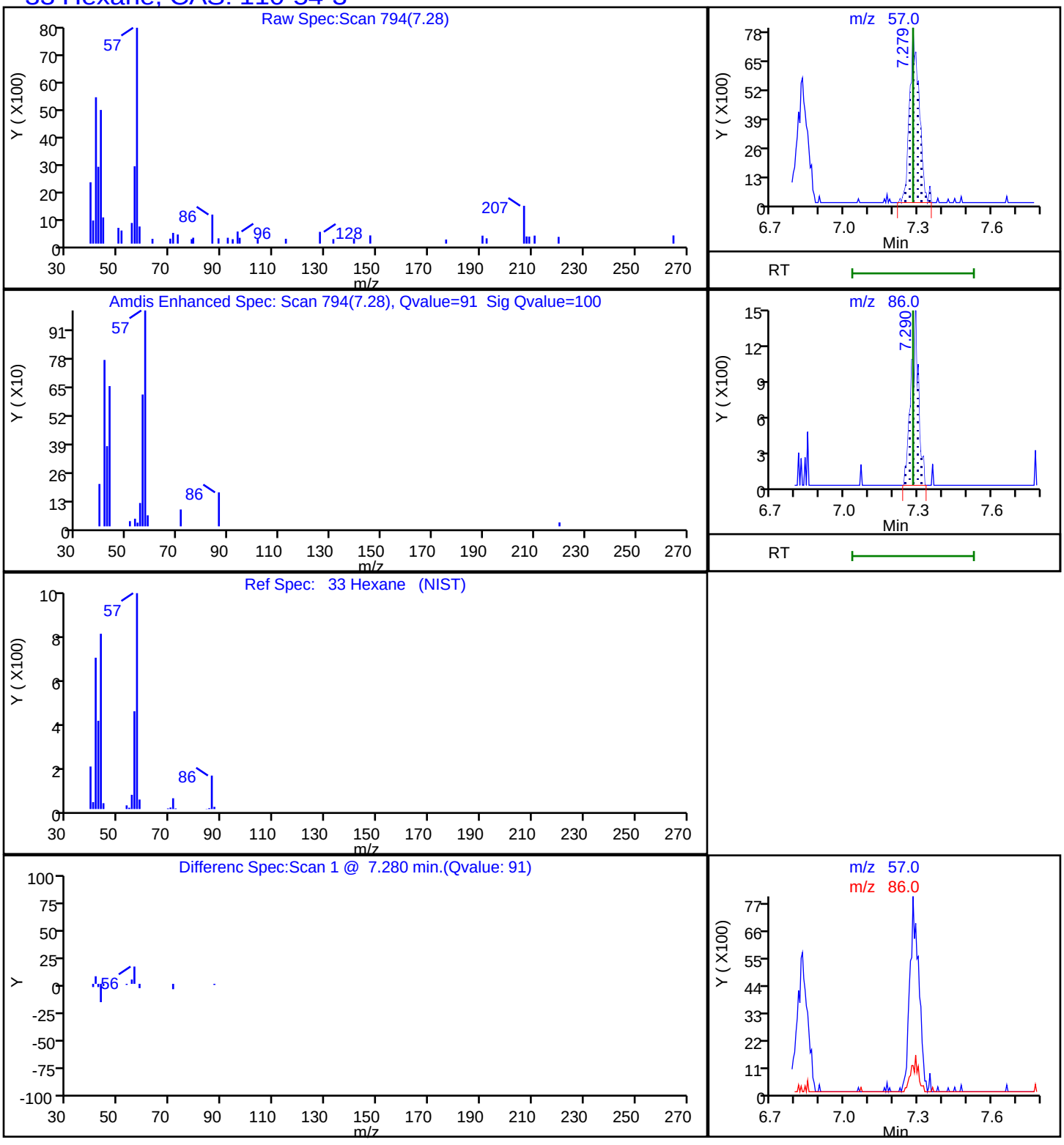
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



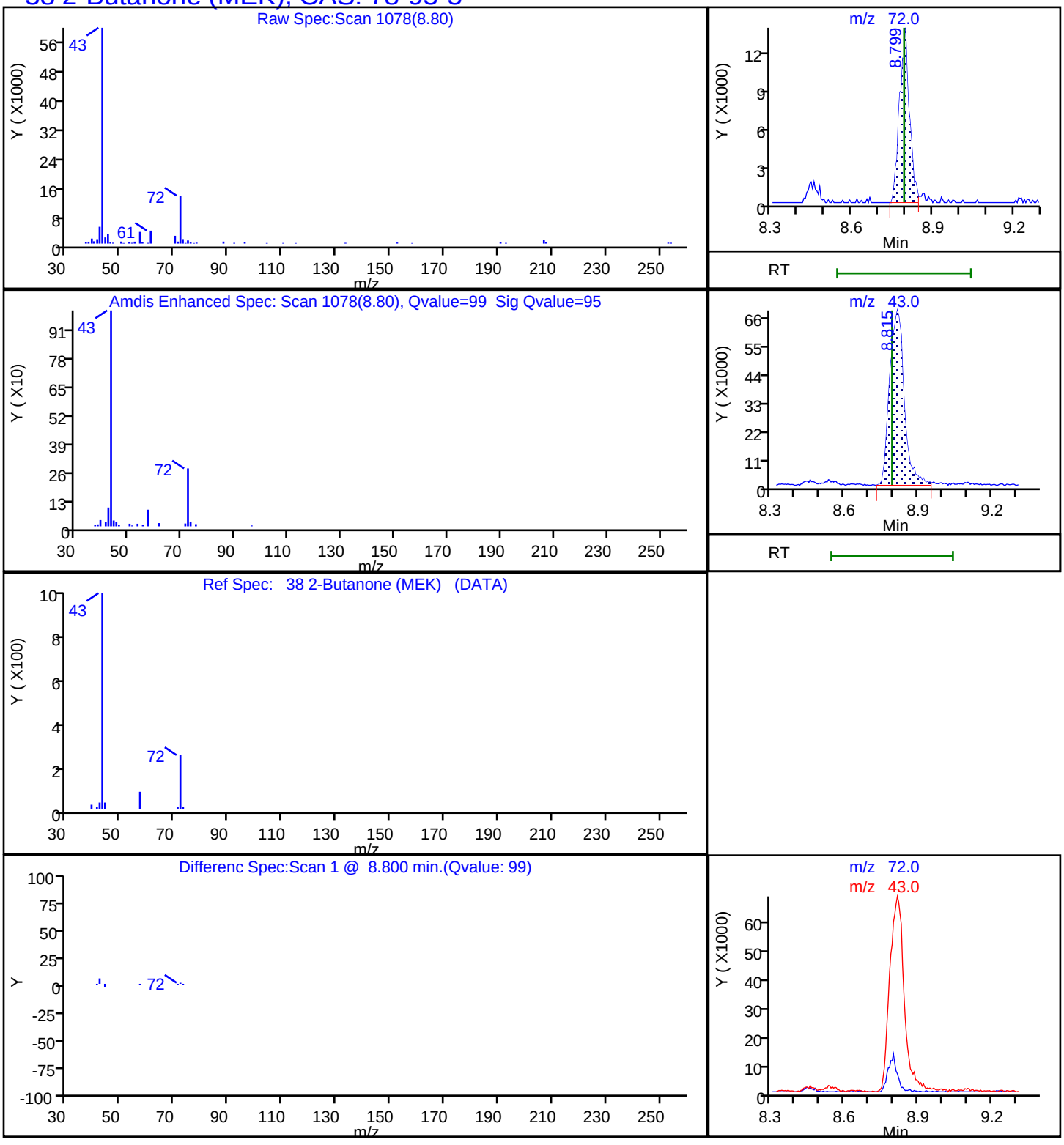
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 38 2-Butanone (MEK), CAS: 78-93-3



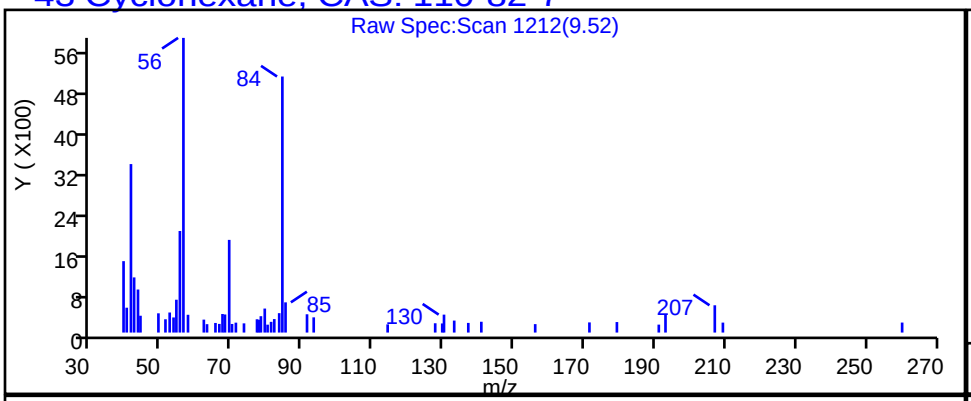
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

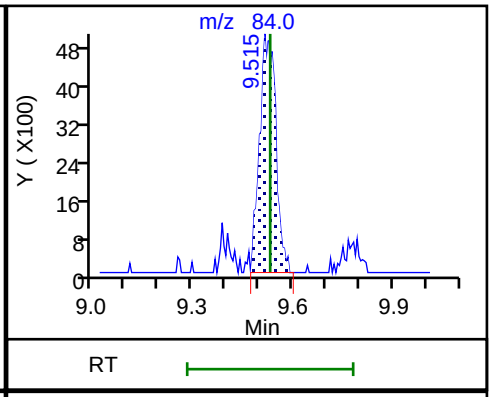
TestAmerica Burlington

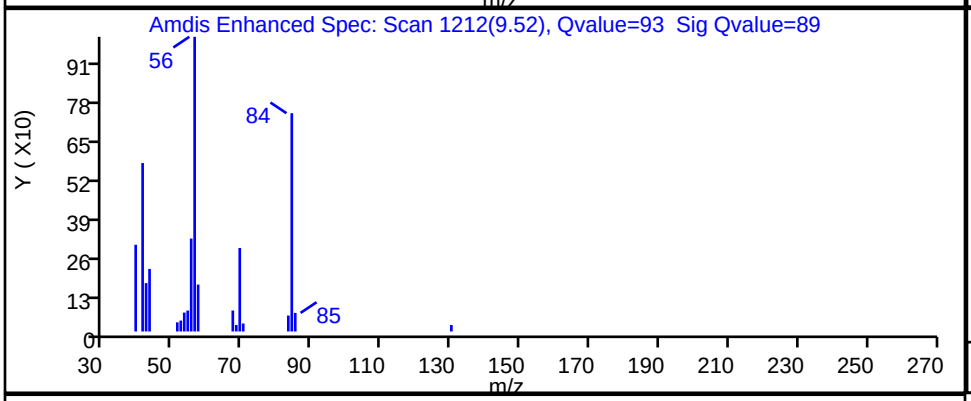
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

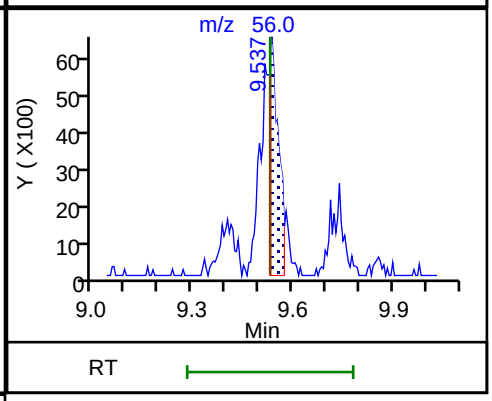
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

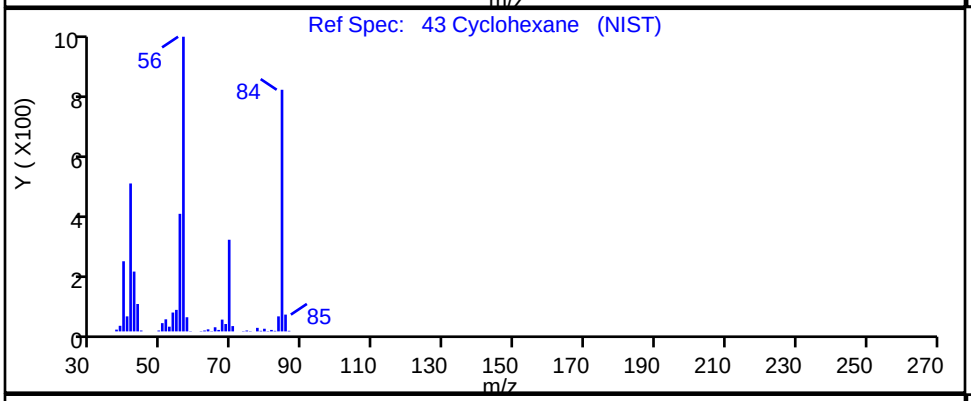
## 43 Cyclohexane, CAS: 110-82-7

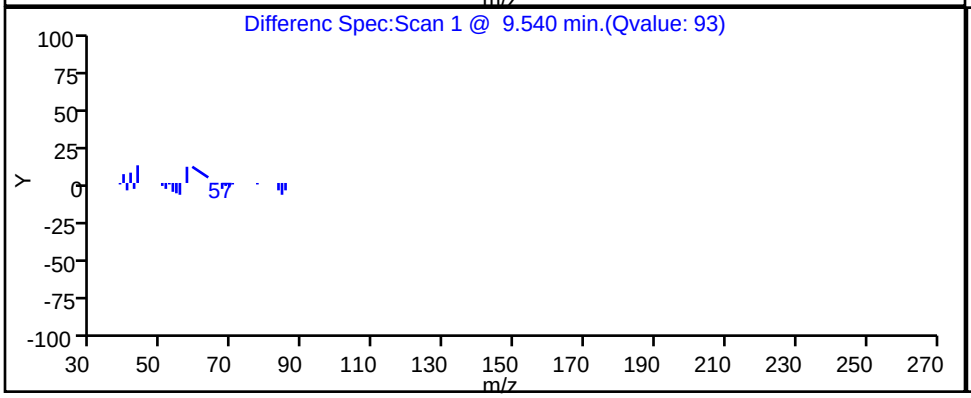


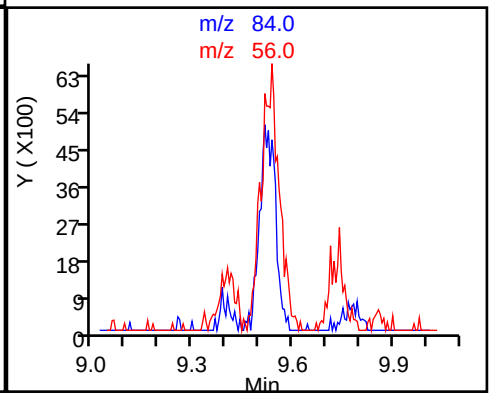



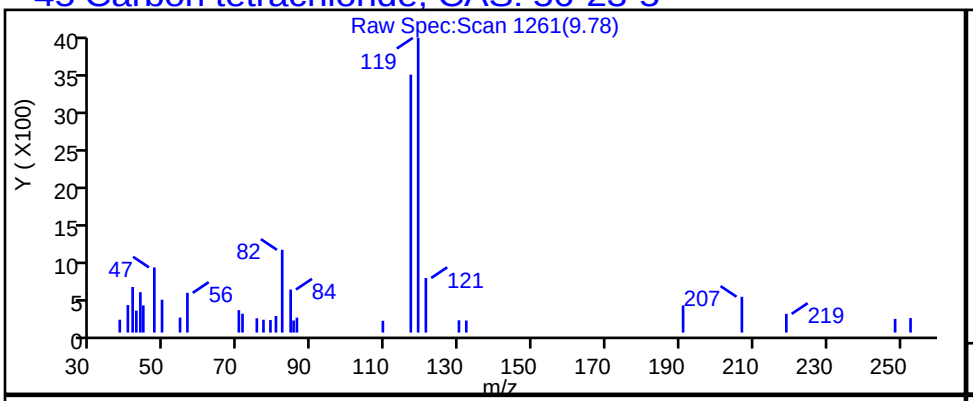
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

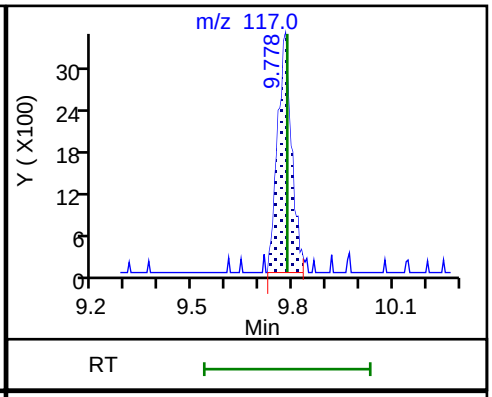
TestAmerica Burlington

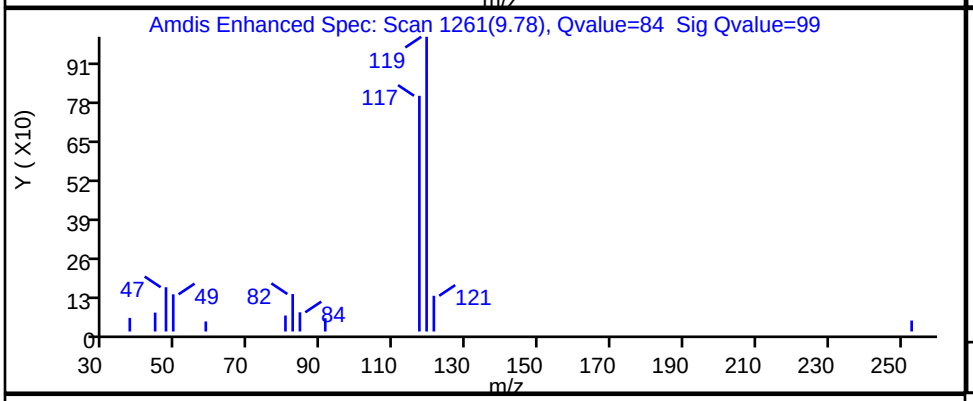
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

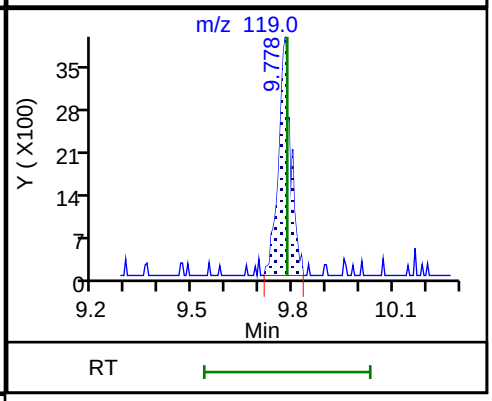
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

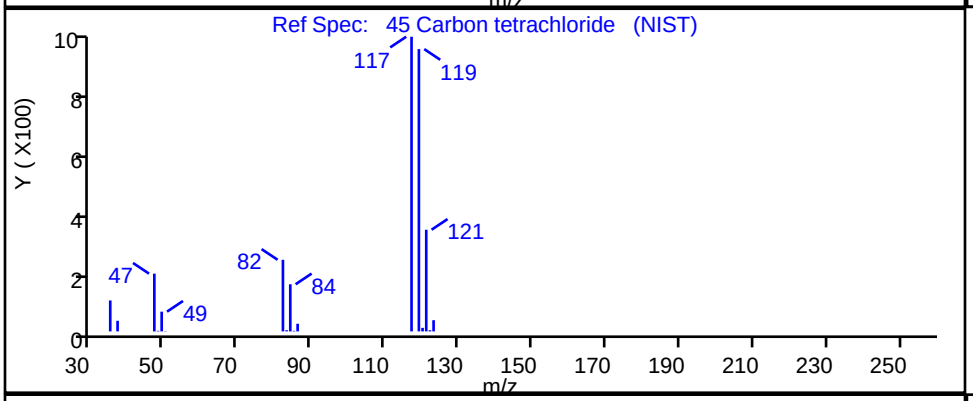
## 45 Carbon tetrachloride, CAS: 56-23-5

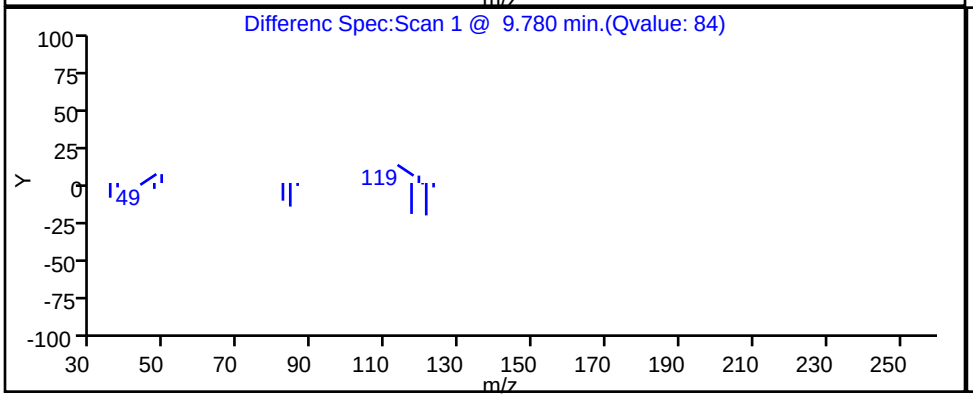


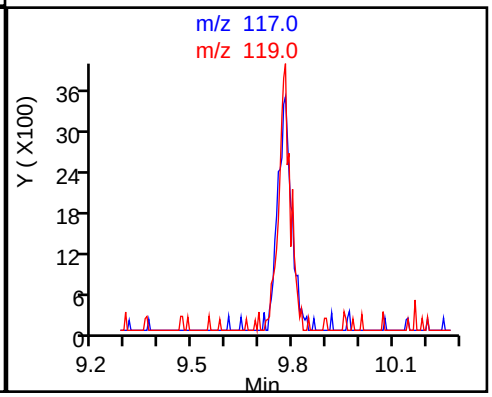



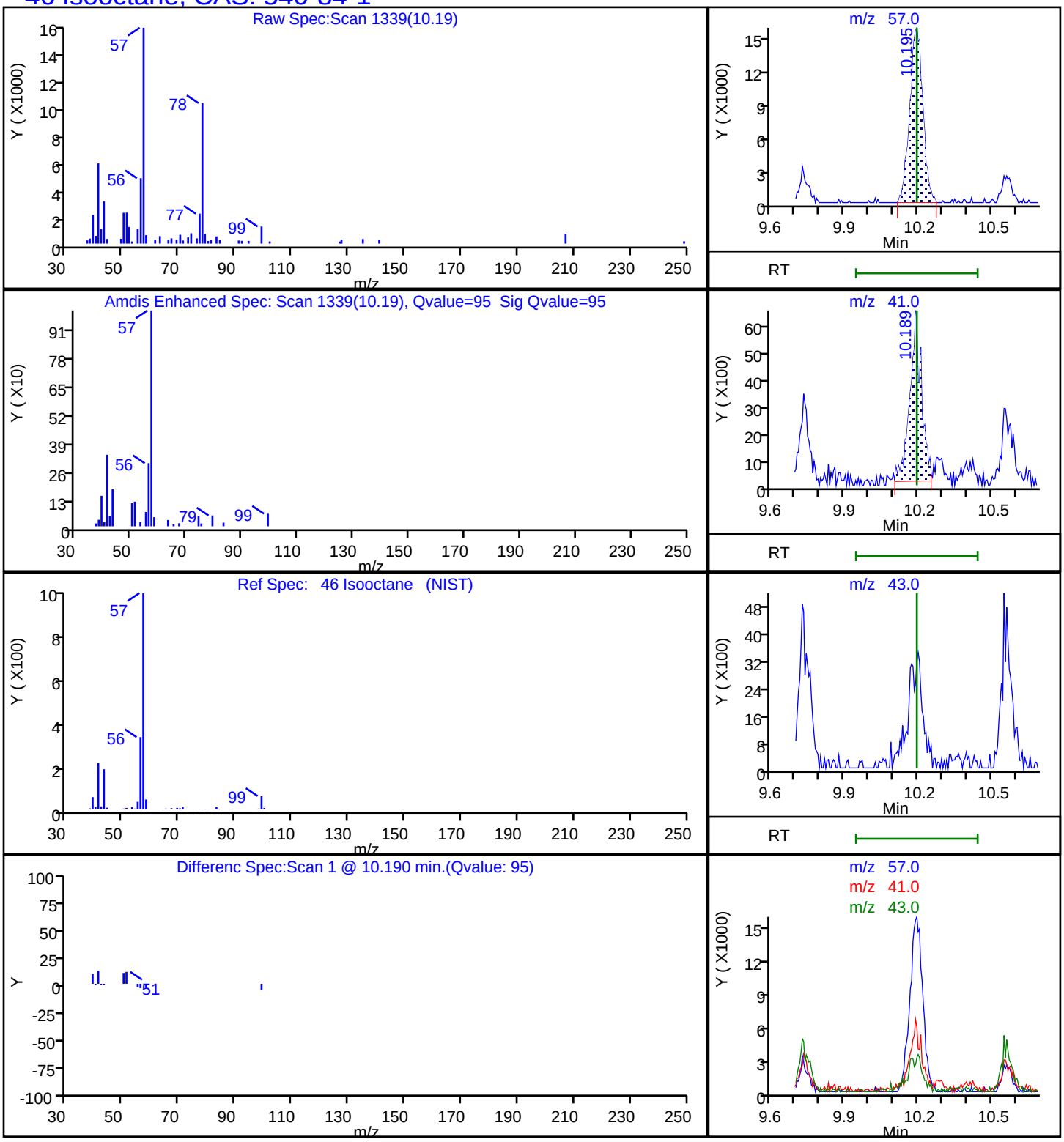
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1



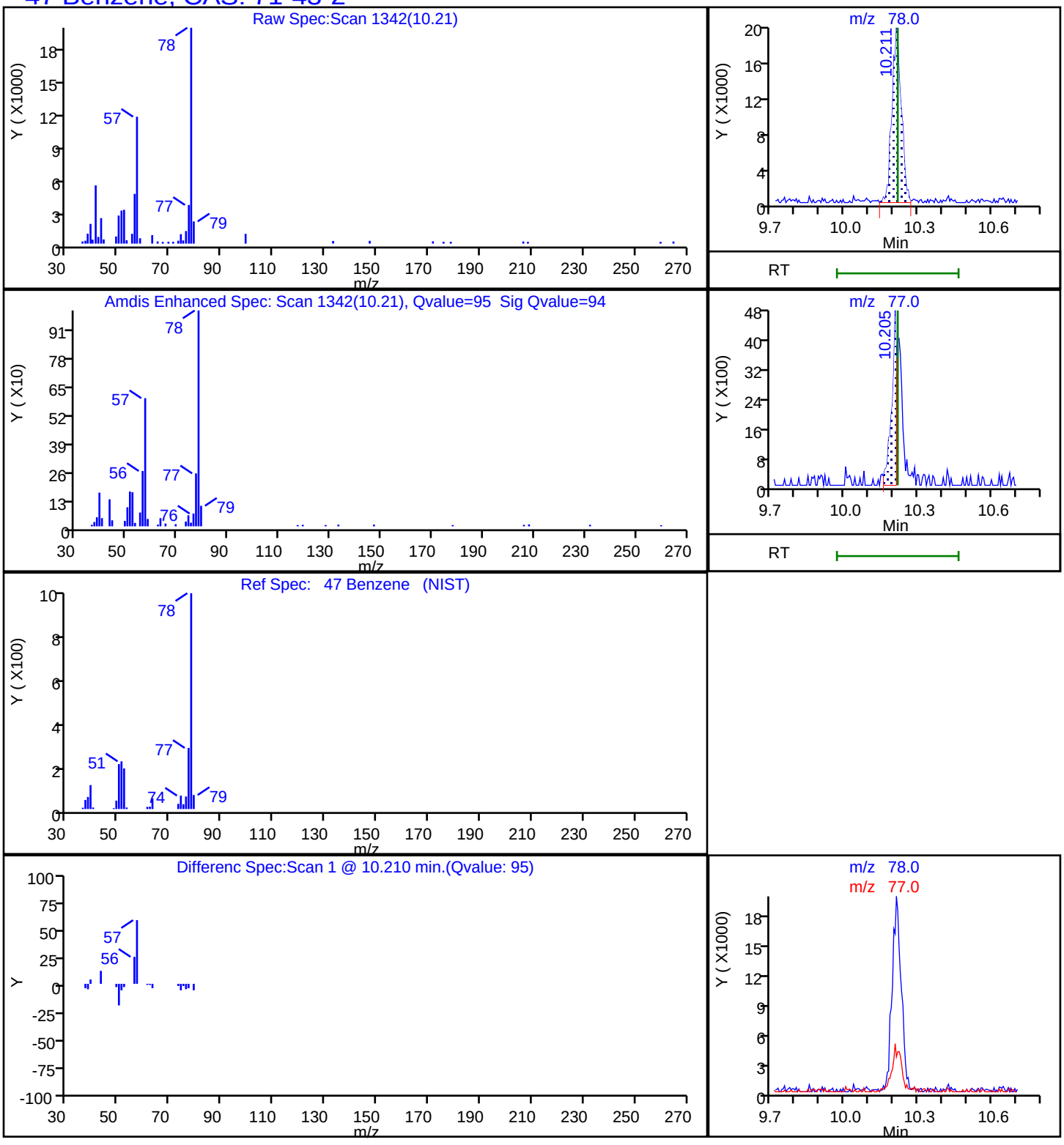
Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



Report Date: 07-Dec-2018 09:00:20 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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| | | | | | |
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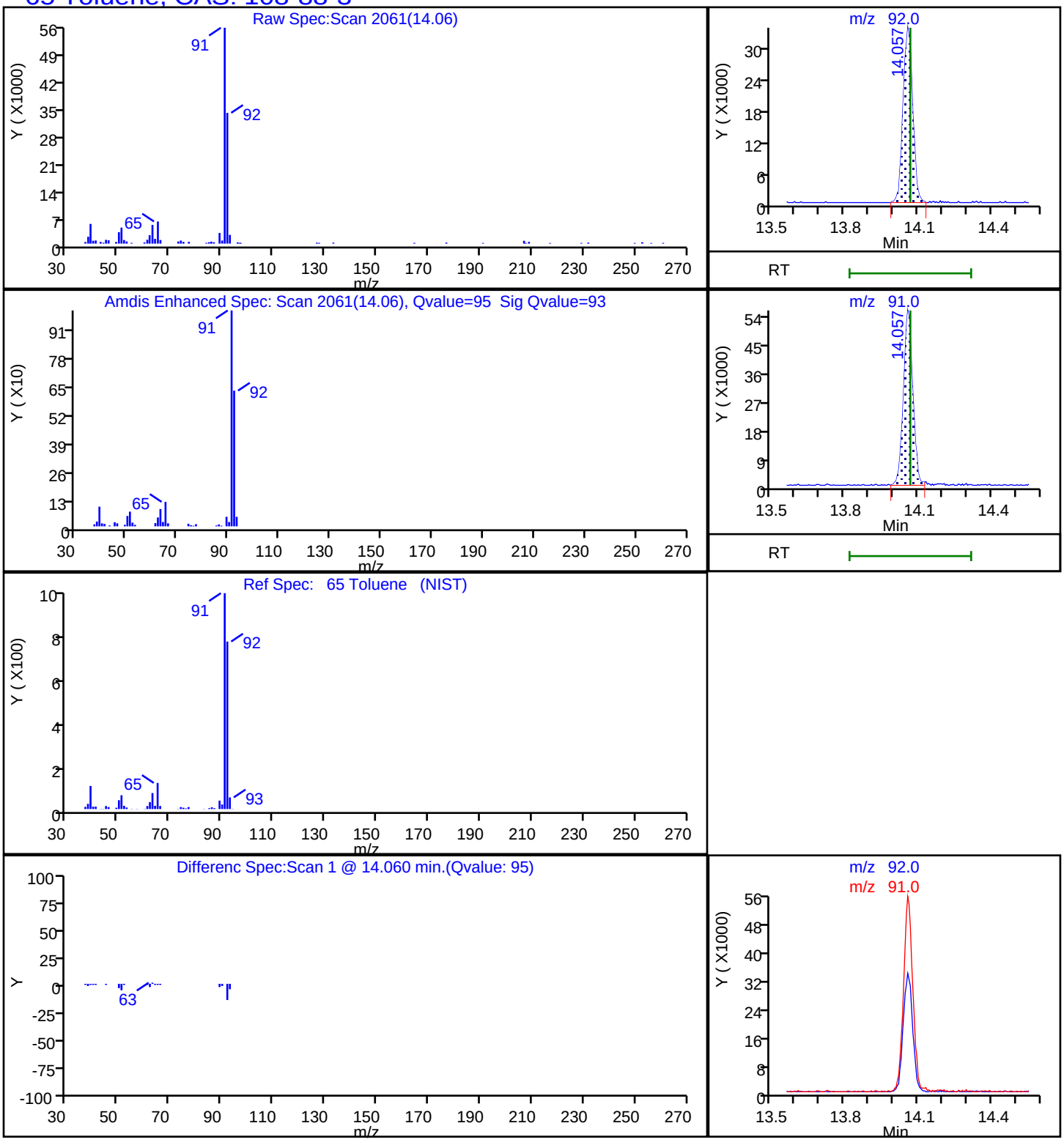
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



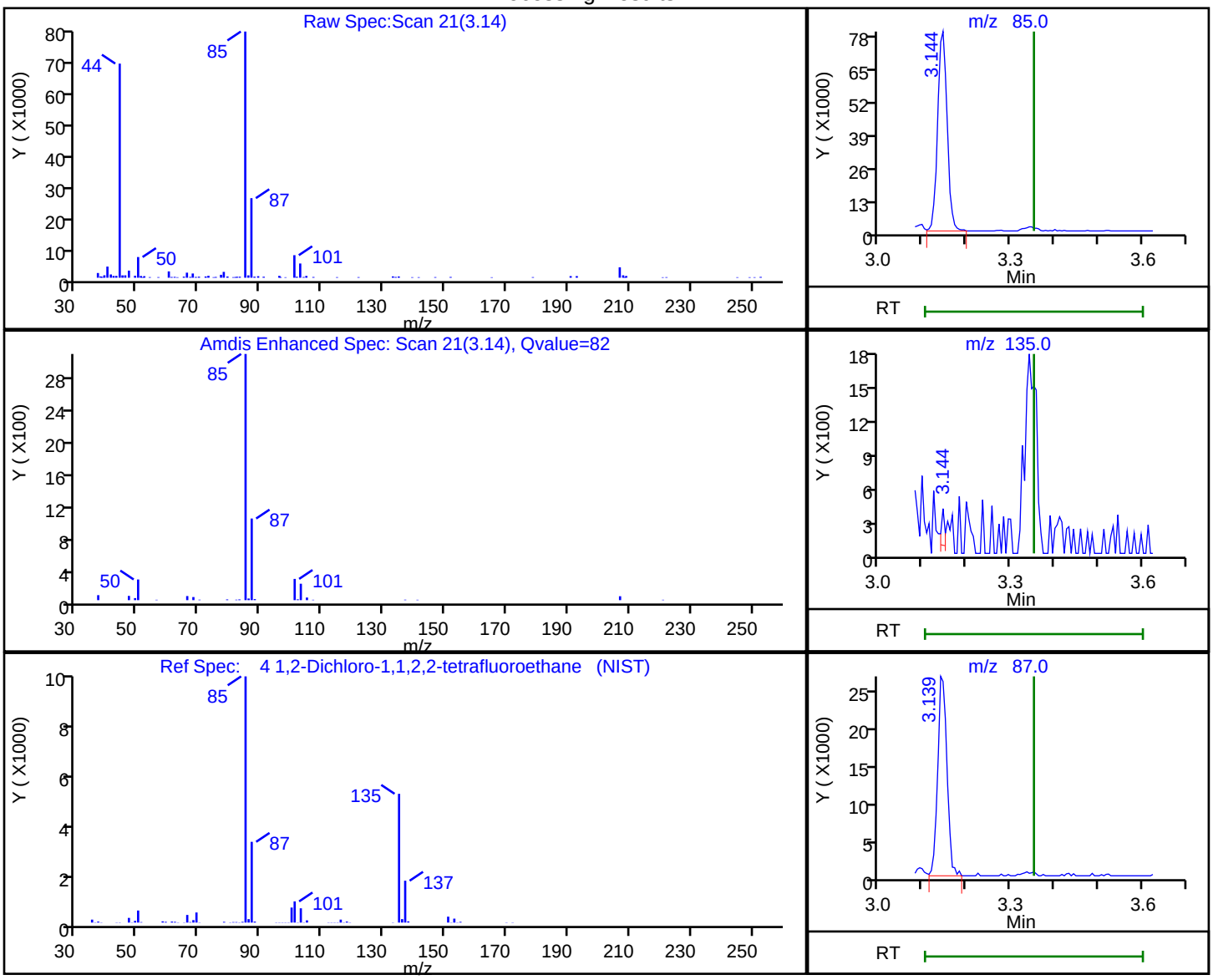
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.14 | 85.00 | 120873 | 0.771517 |
| 3.14 | 135.00 | 173 | |
| 3.14 | 87.00 | 39045 | |

Reviewer: bunmaa, 07-Dec-2018 08:54:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

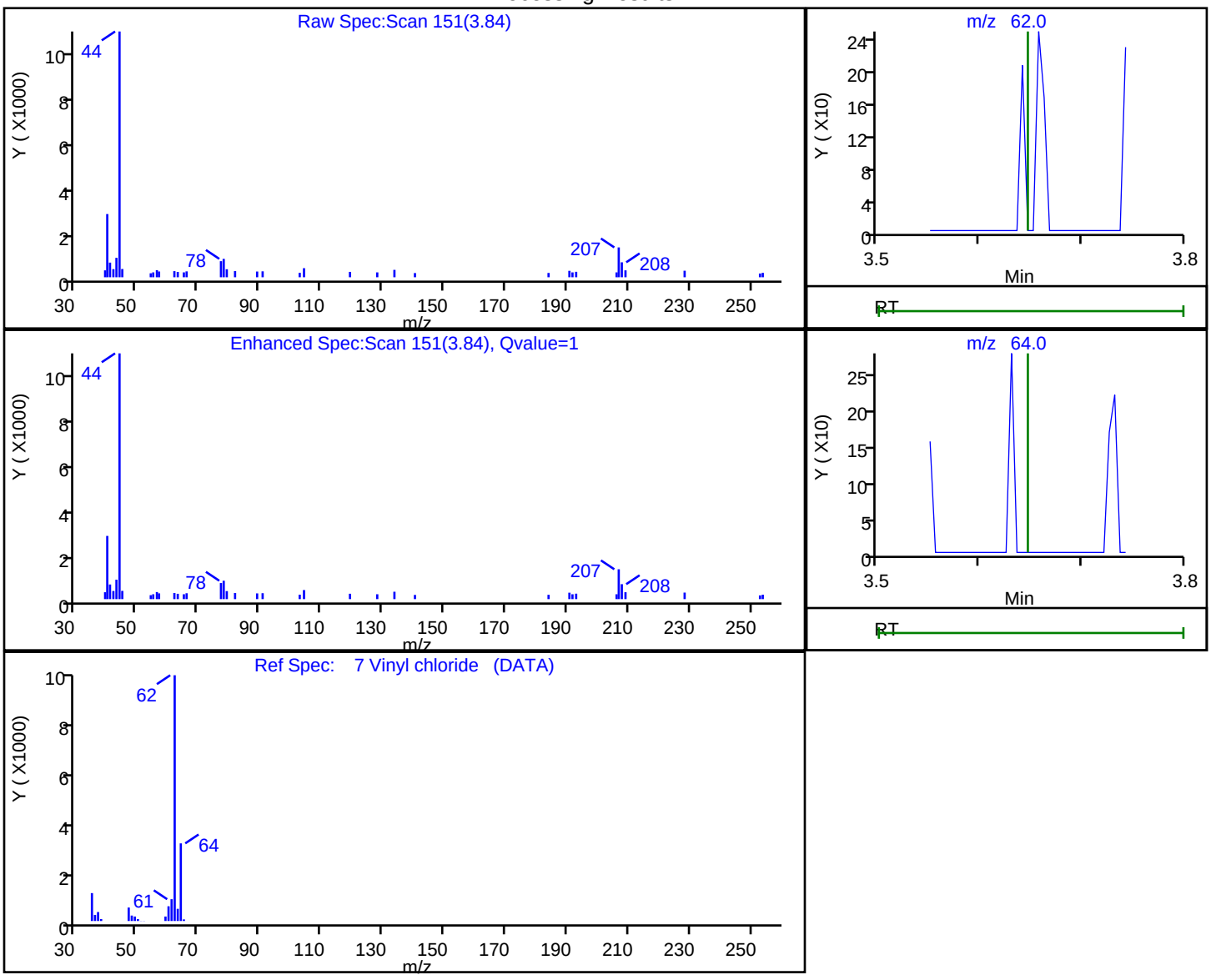
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 7 Vinyl chloride, CAS: 75-01-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.84 | 62.00 | 129 | 0.002646 |
| 3.65 | 64.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

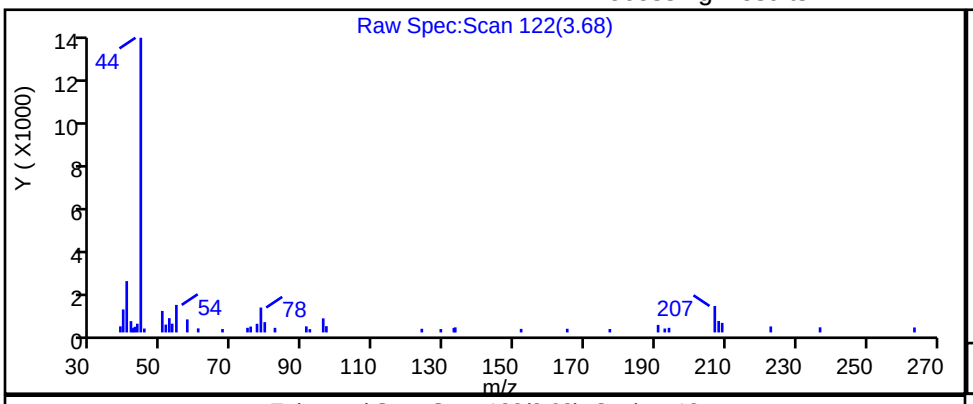
User Disabled Compound Report

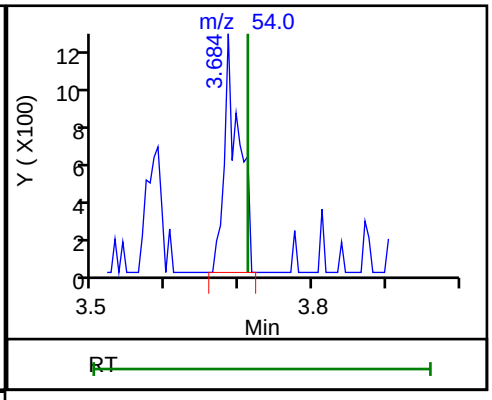
TestAmerica Burlington

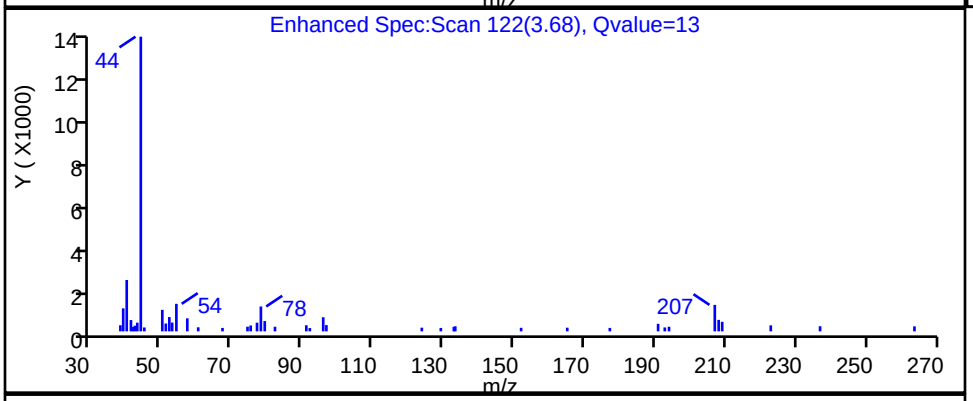
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

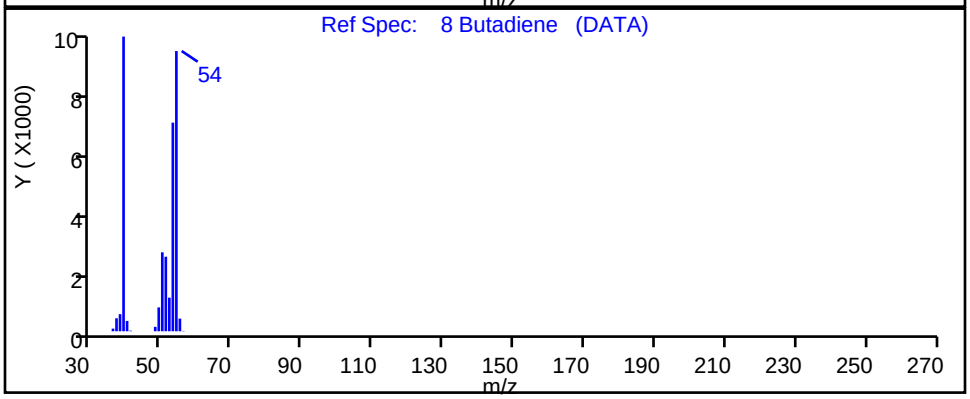
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.68 | 54.00 | 1797 | 0.059236 |

Reviewer: bunmaa, 07-Dec-2018 08:55:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

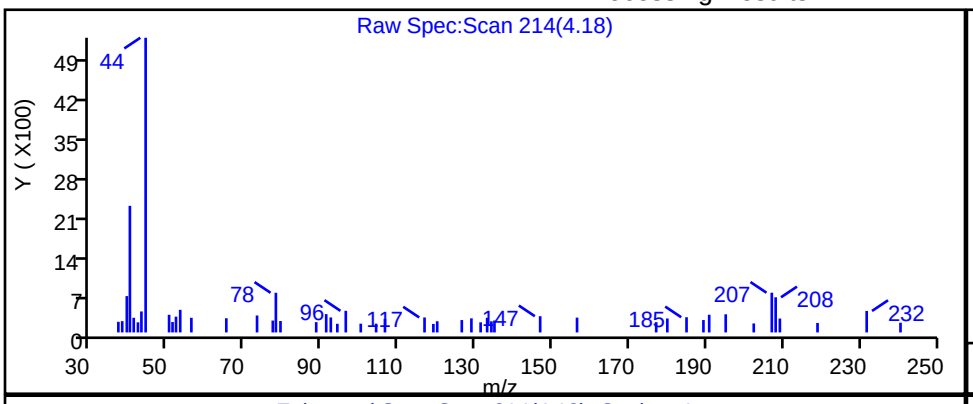
User Disabled Compound Report

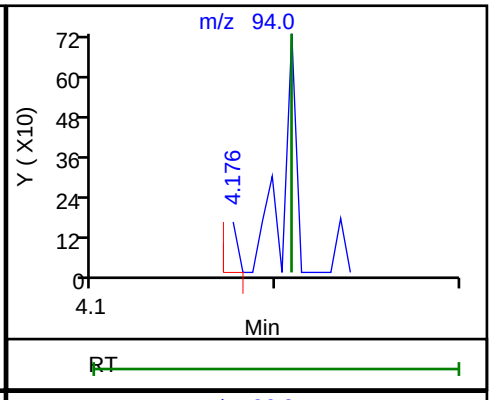
TestAmerica Burlington

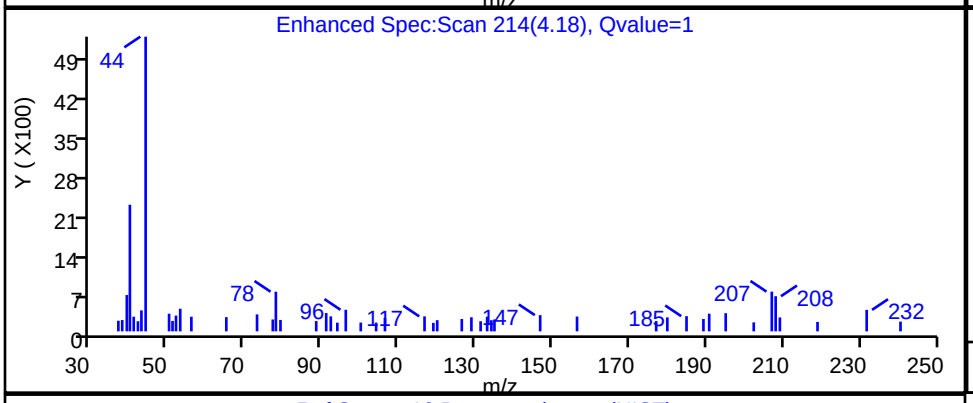
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

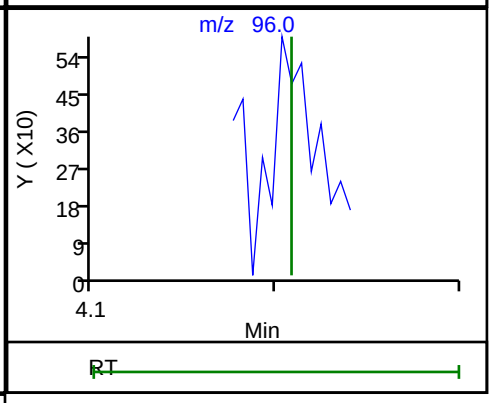
## 10 Bromomethane, CAS: 74-83-9

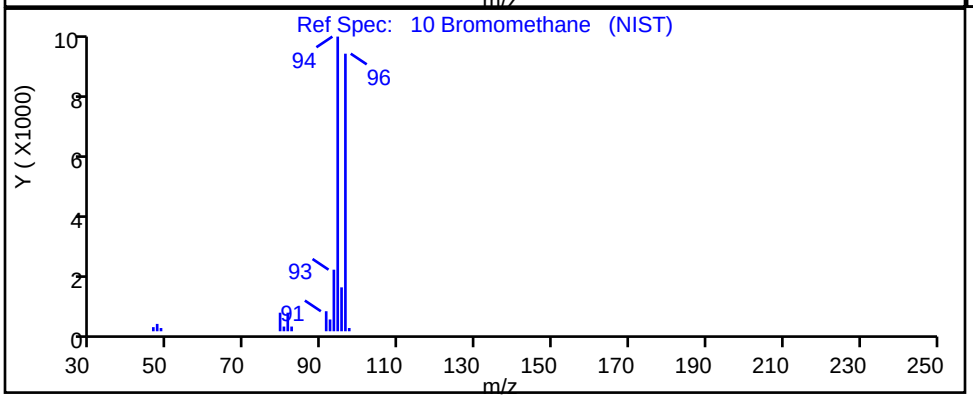
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.18 | 94.00 | 49 | 0.000870 |
| 4.21 | 96.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

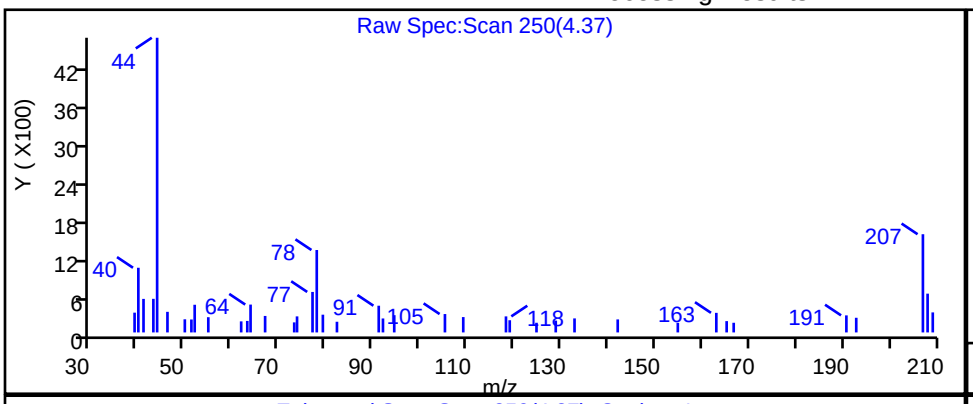
User Disabled Compound Report

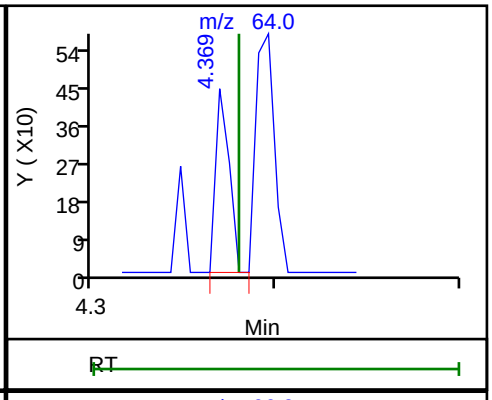
TestAmerica Burlington

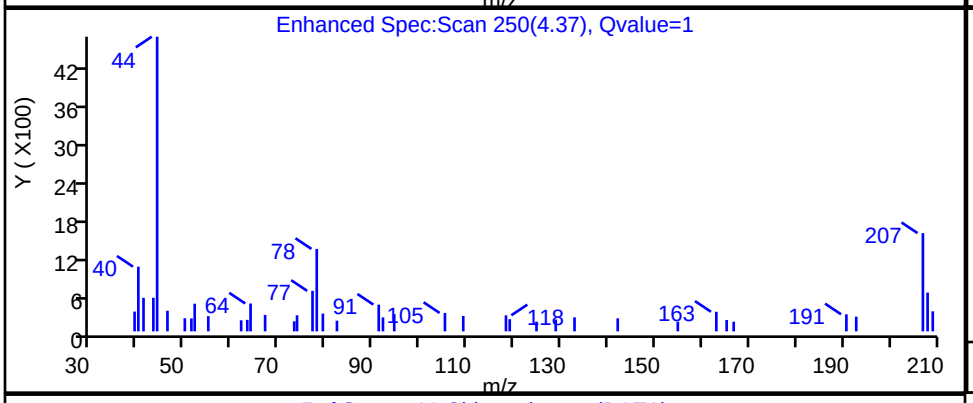
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

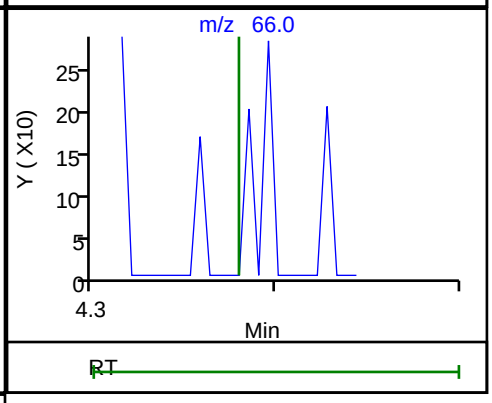
## 11 Chloroethane, CAS: 75-00-3

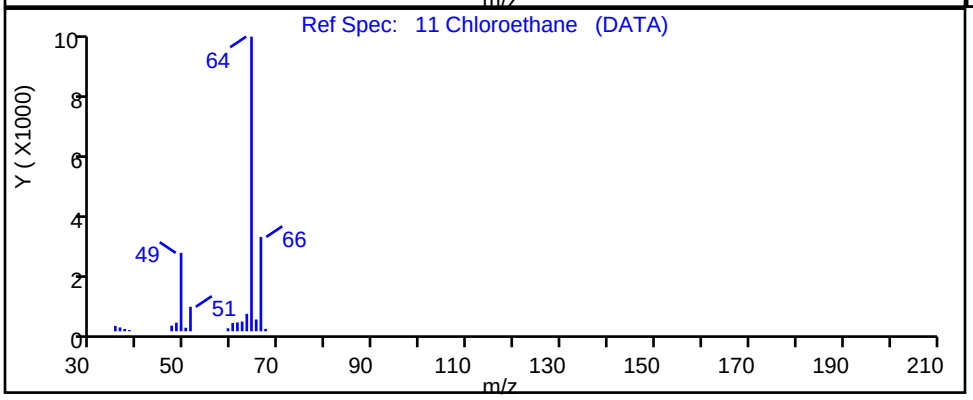
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.37 | 64.00 | 226 | 0.012044 |
| 4.38 | 66.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

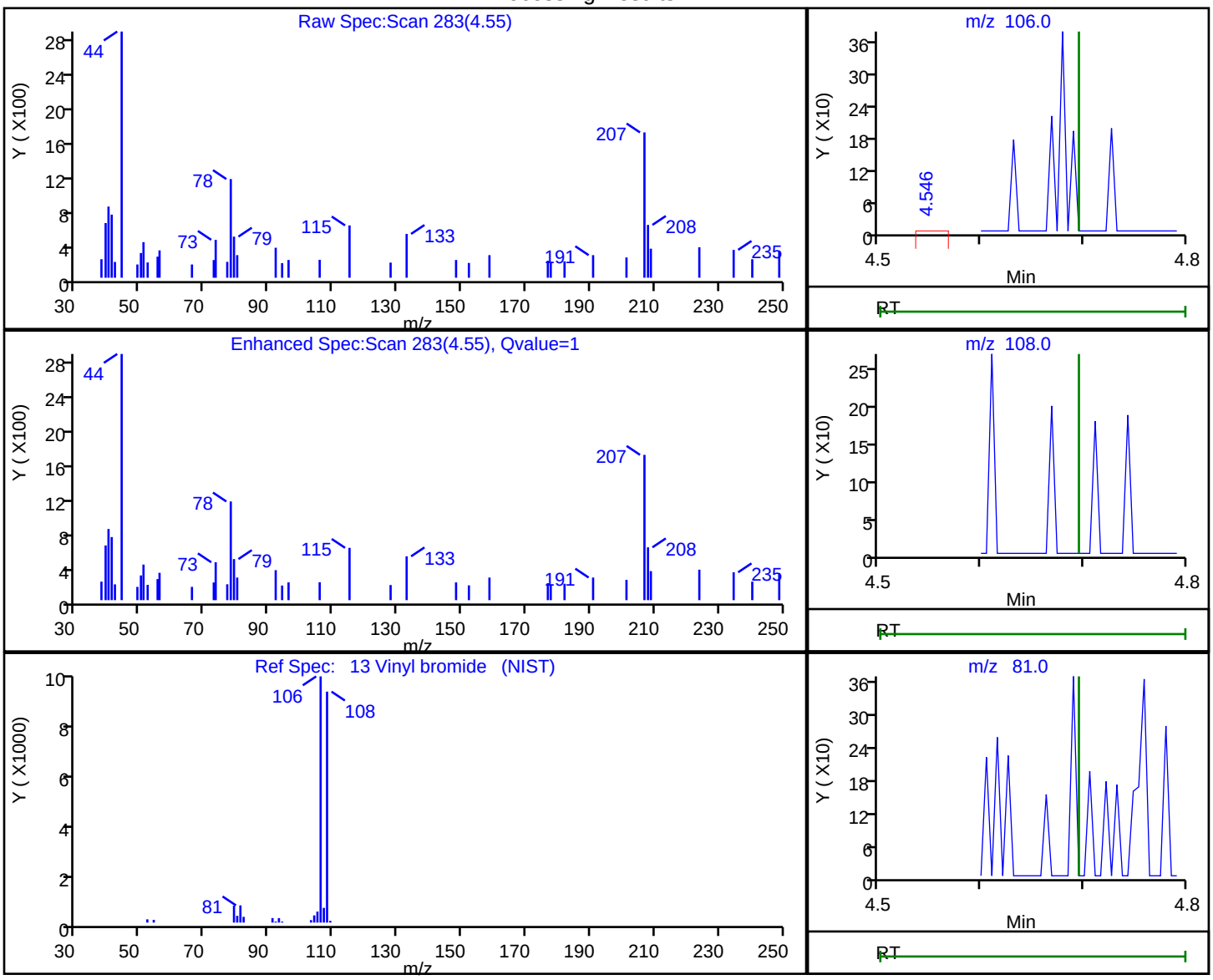
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.55 | 106.00 | 127 | 0.002282 |
| 4.70 | 108.00 | 0 | |
| 4.70 | 81.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

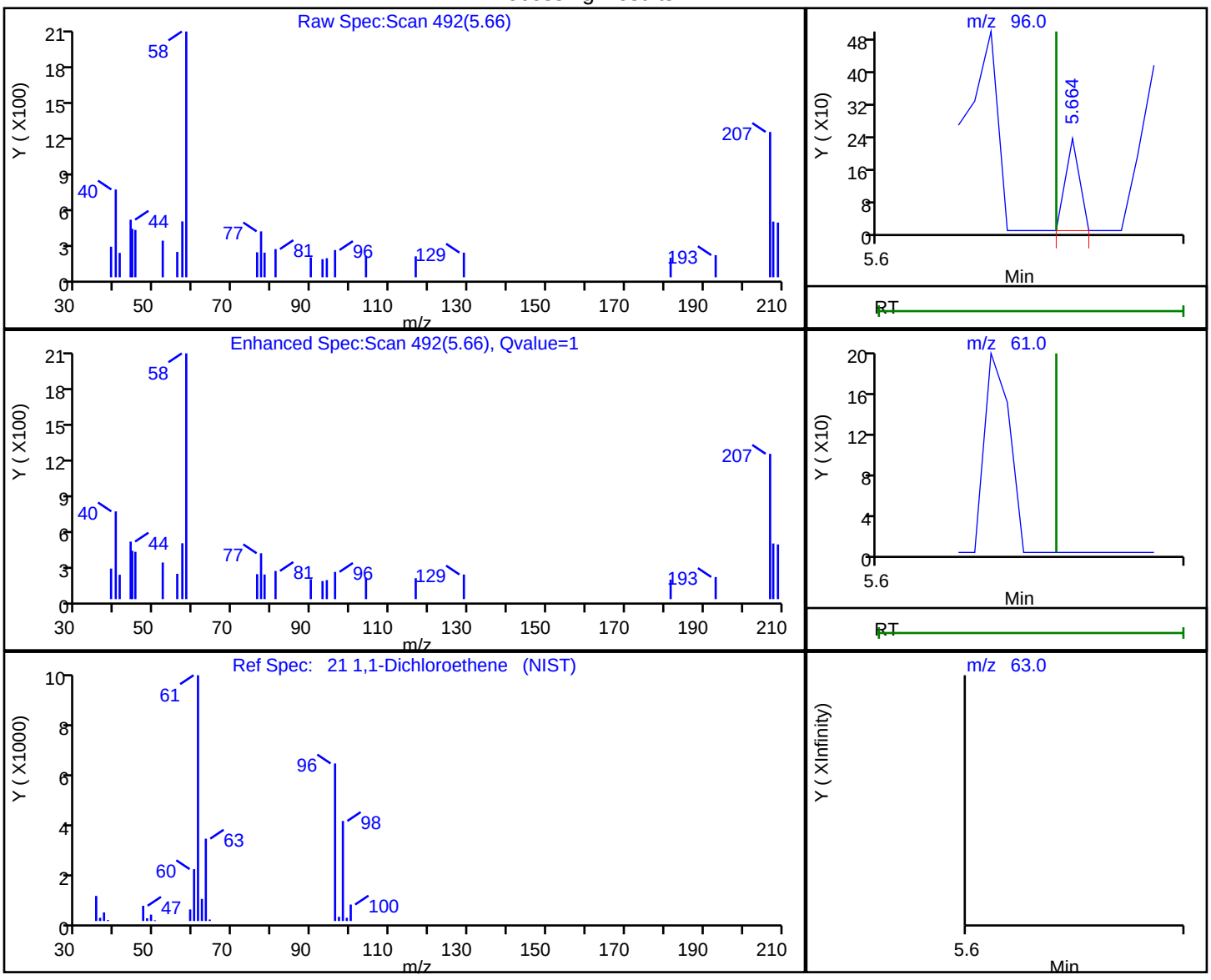
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.66 | 96.00 | 74 | 0.001451 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

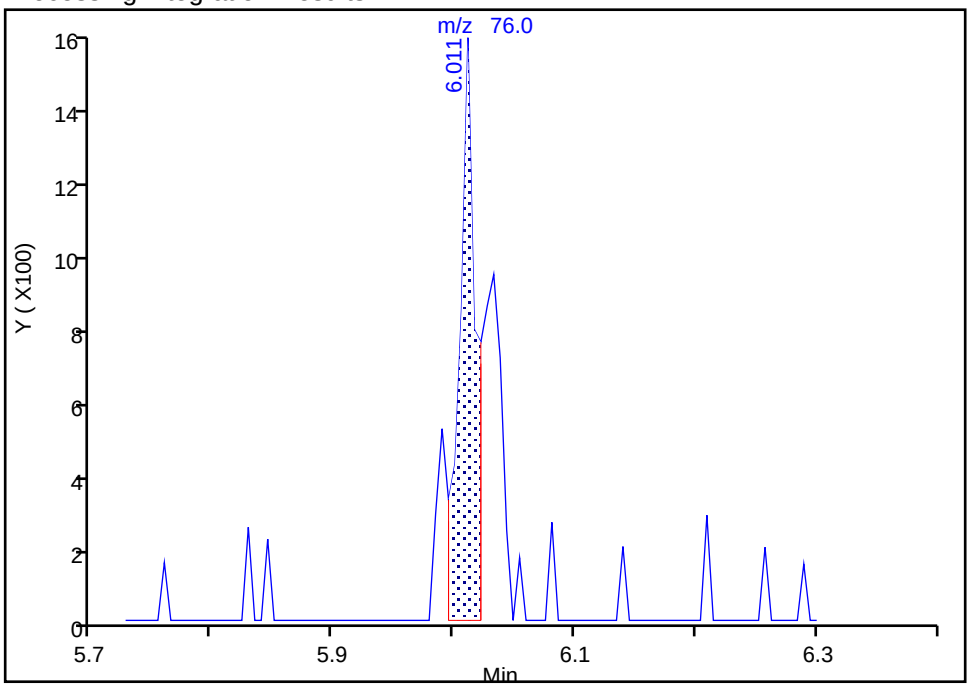
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 23 Carbon disulfide, CAS: 75-15-0

Signal: 1

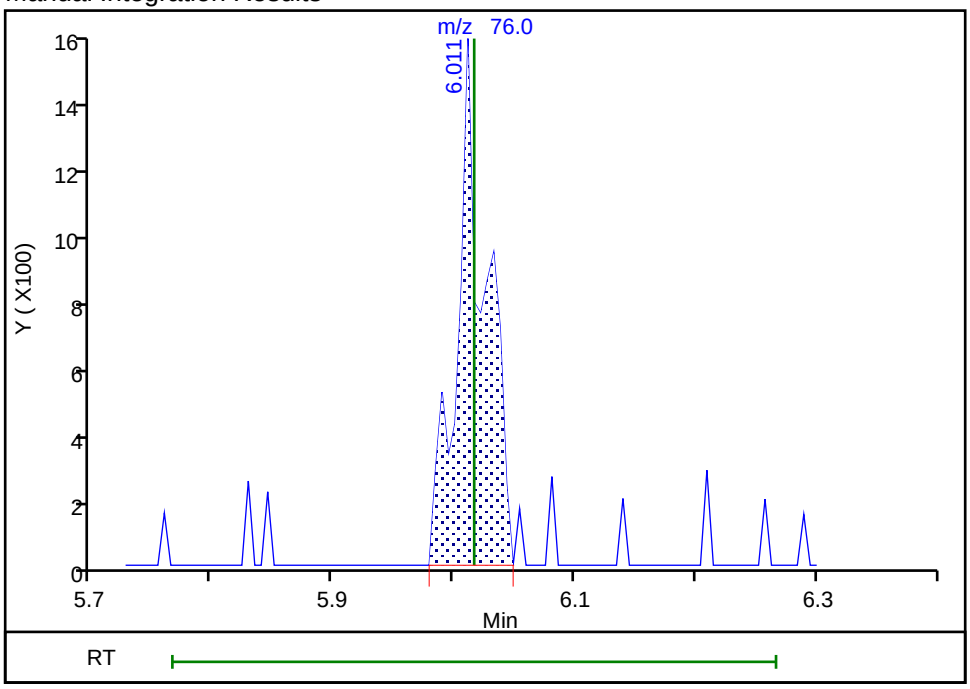
Processing Integration Results

RT: 6.01
Area: 1498
Amount: 0.011417
Amount Units: ppb v/v




Manual Integration Results

RT: 6.01
Area: 2627
Amount: 0.020021
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 08:55:41

Audit Action: Manually Integrated Audit Reason: Assign Peak

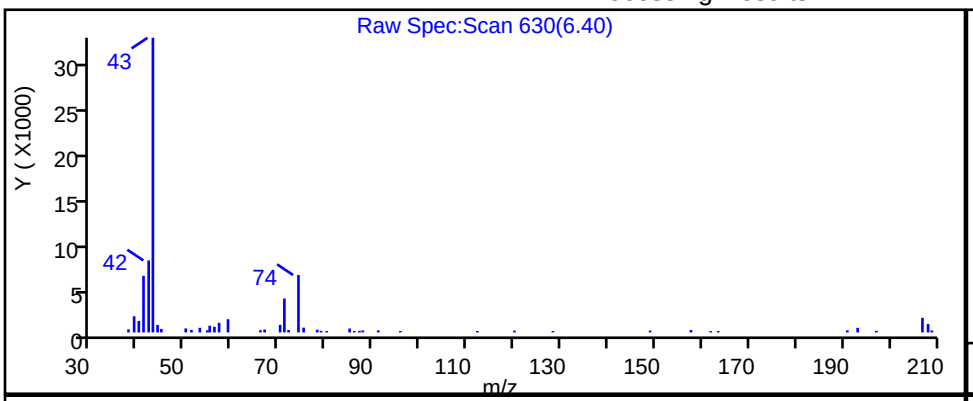
User Disabled Compound Report

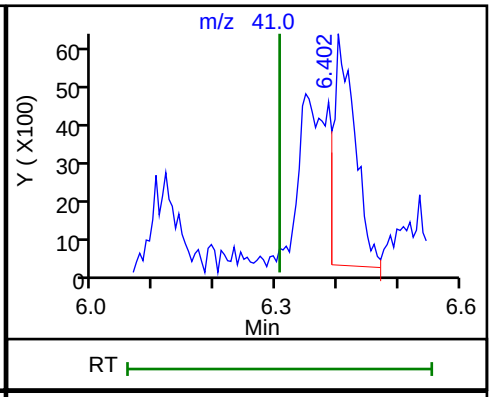
TestAmerica Burlington

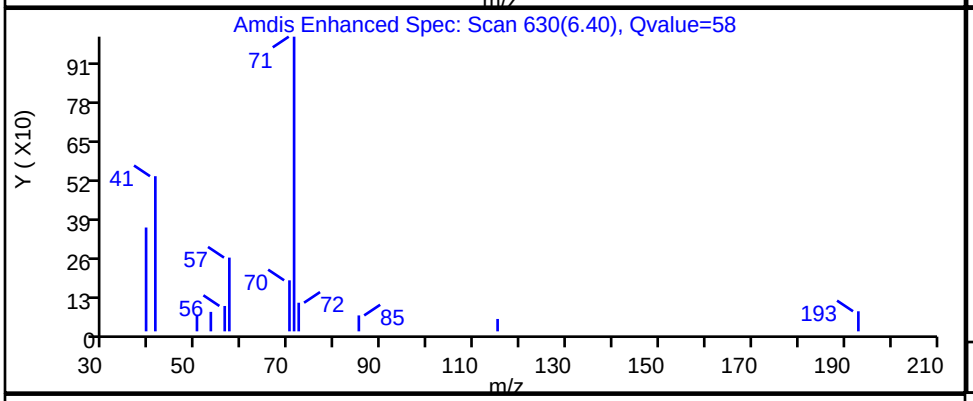
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

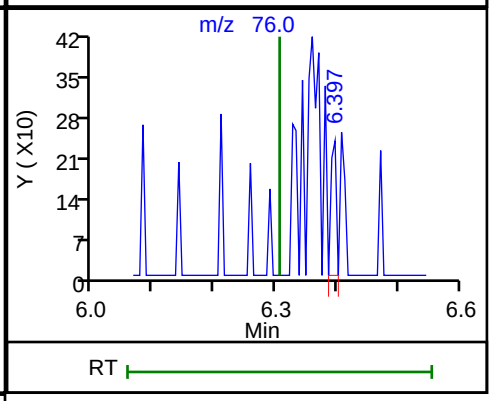
## 25 3-Chloro-1-propene, CAS: 107-05-1

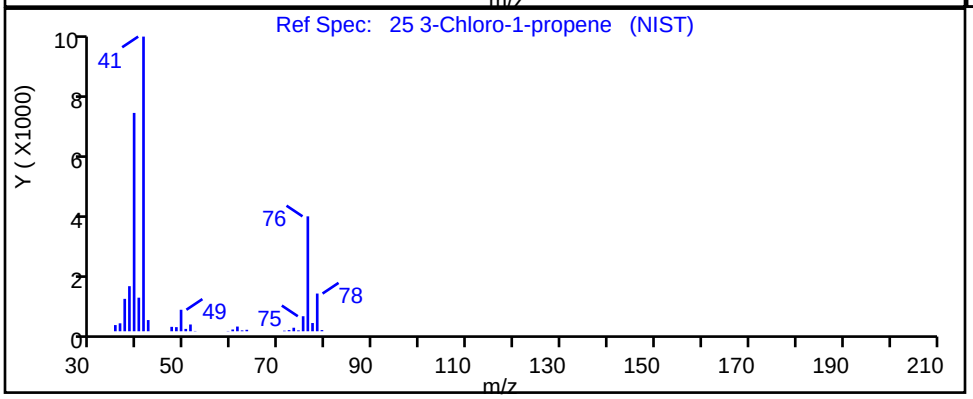
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.40 | 41.00 | 14667 | 0.386477 |
| 6.40 | 76.00 | 141 | |

Reviewer: bunmaa, 07-Dec-2018 08:56:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

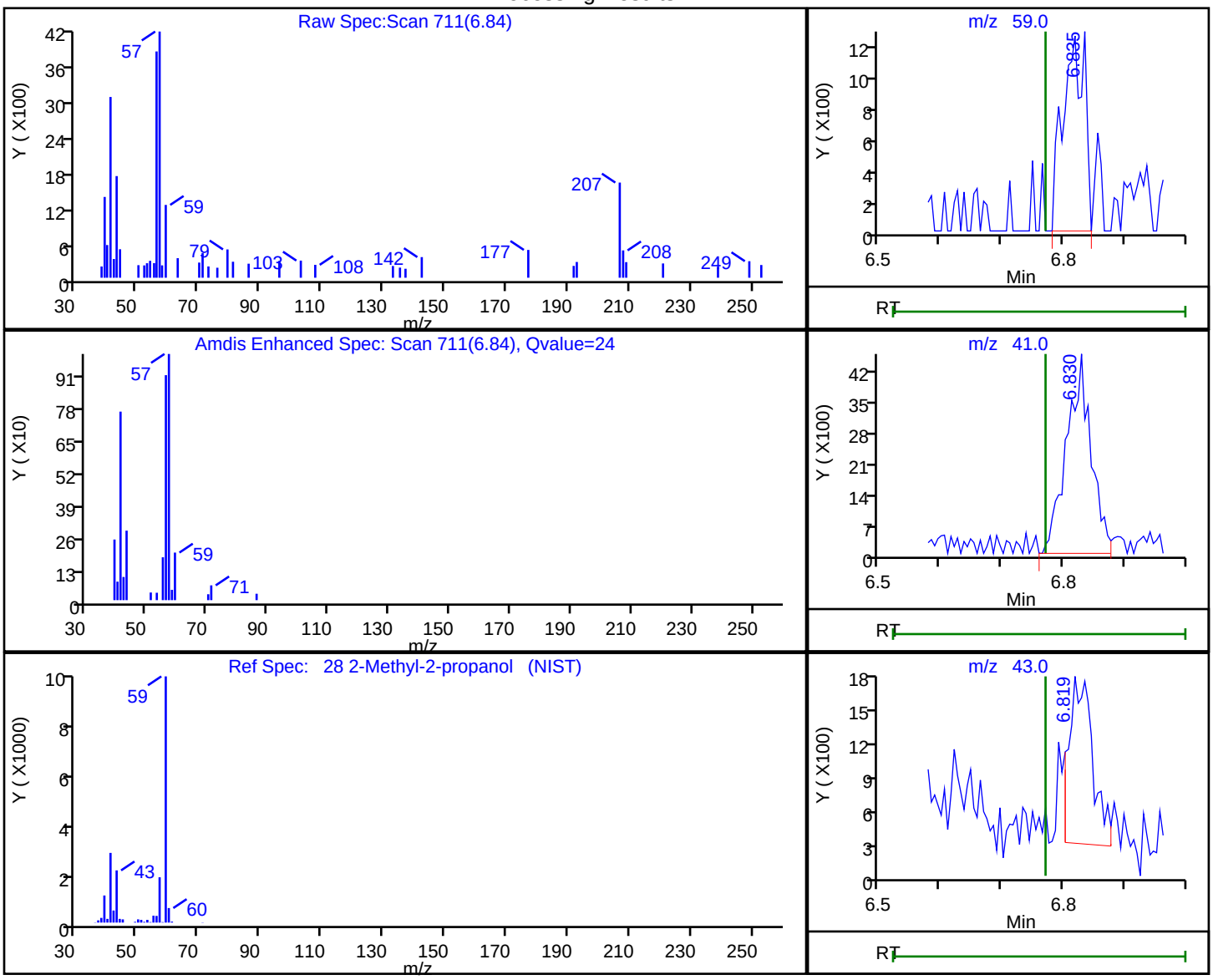
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.84 | 59.00 | 2971 | 0.040480 |
| 6.83 | 41.00 | 12582 | |
| 6.82 | 43.00 | 3946 | |

Reviewer: bunmaa, 07-Dec-2018 08:56:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

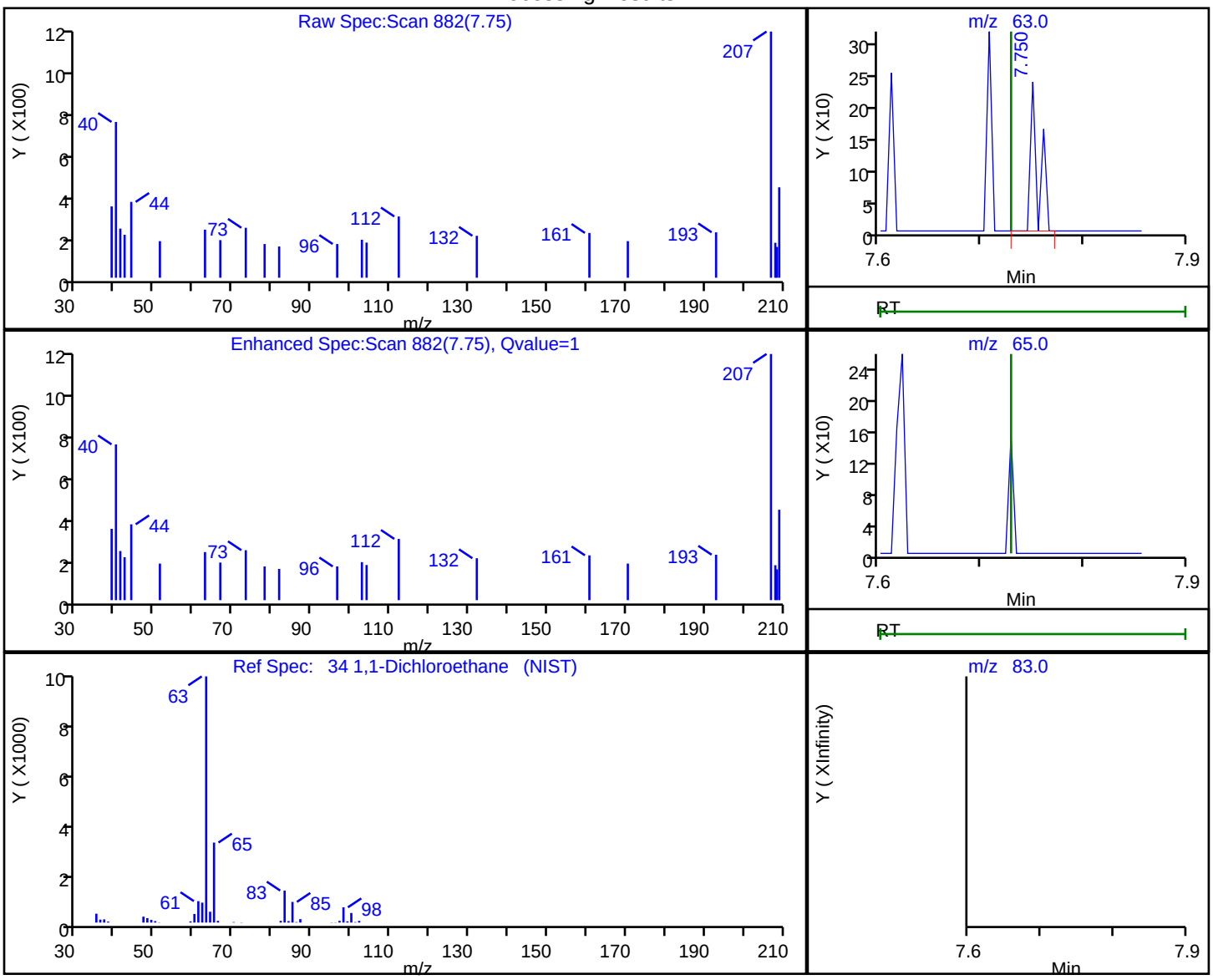
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.75 | 63.00 | 126 | 0.001580 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

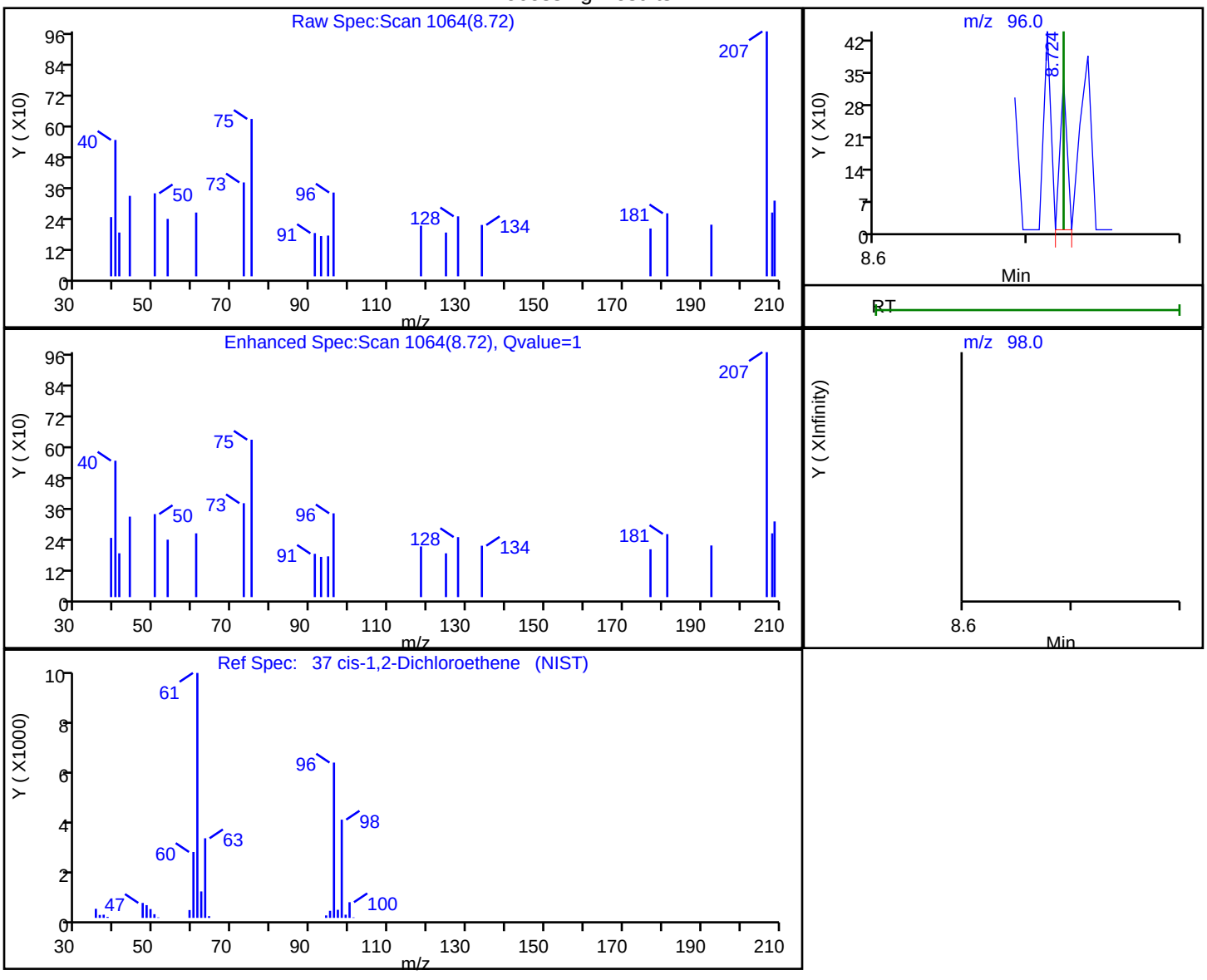
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.72 | 96.00 | 106 | 0.002194 |
| 8.72 | 98.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

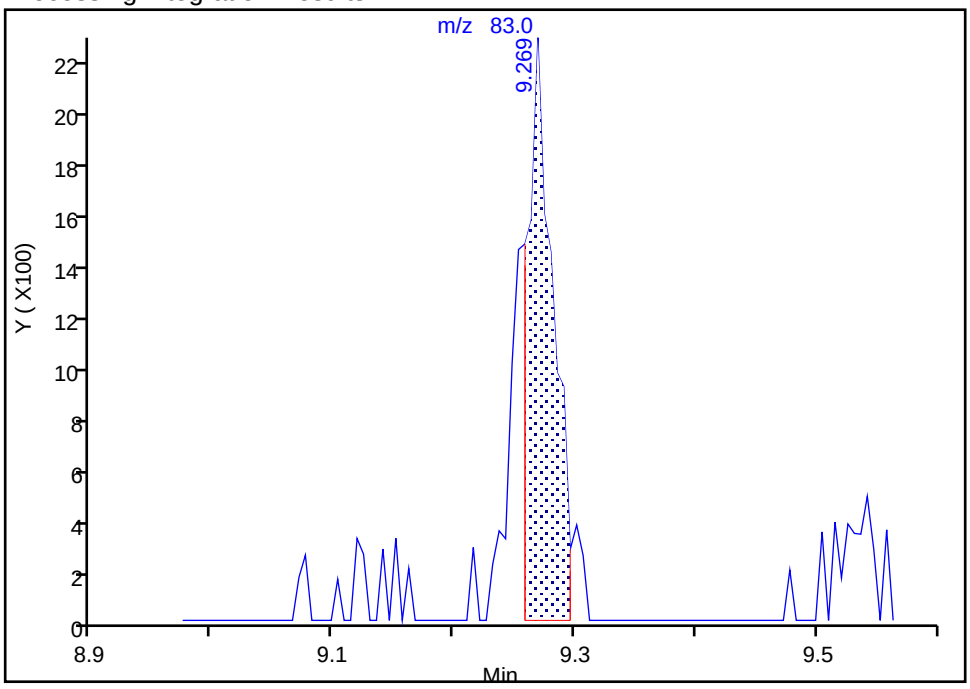
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

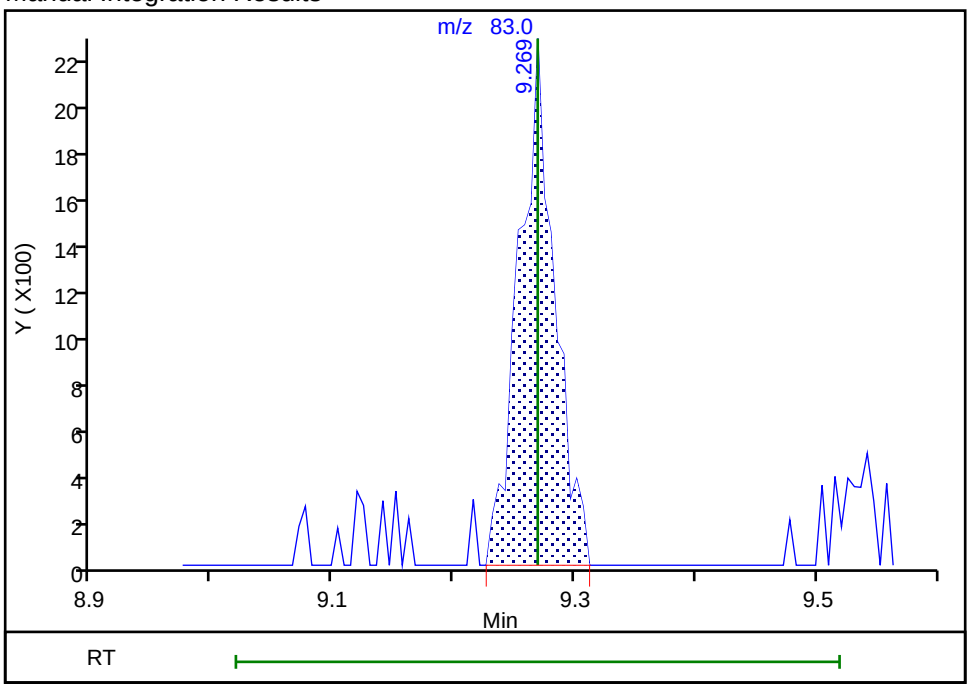
Processing Integration Results

RT: 9.27
Area: 3372
Amount: 0.028930
Amount Units: ppb v/v




Manual Integration Results

RT: 9.27
Area: 4646
Amount: 0.039860
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 12:00:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

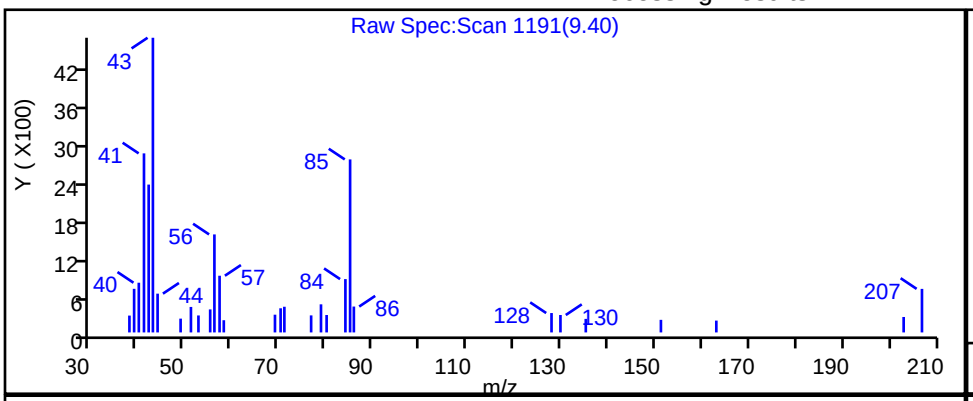
User Disabled Compound Report

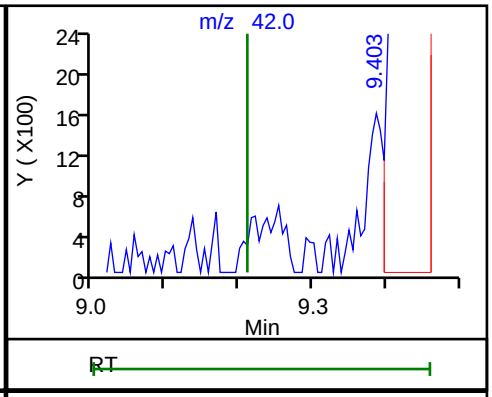
TestAmerica Burlington

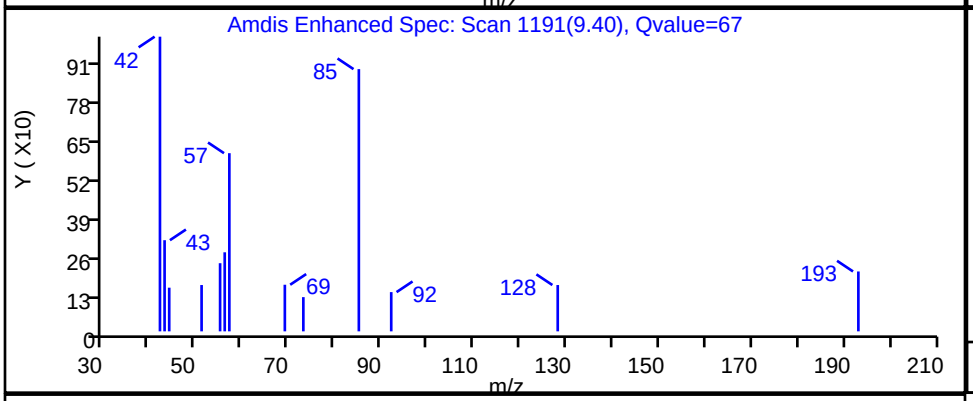
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

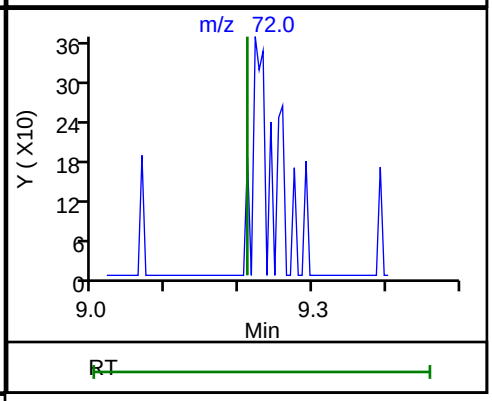
## 41 Tetrahydrofuran, CAS: 109-99-9

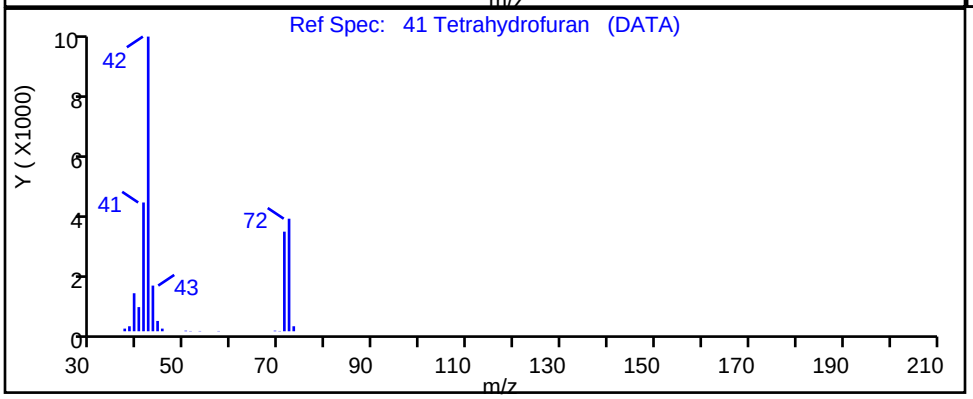
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.40 | 42.00 | 3657 | 0.133354 |
| 9.21 | 72.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:59:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 09:00:19 Chrom Revision: 2.3 21-Nov-2018 13:56:44

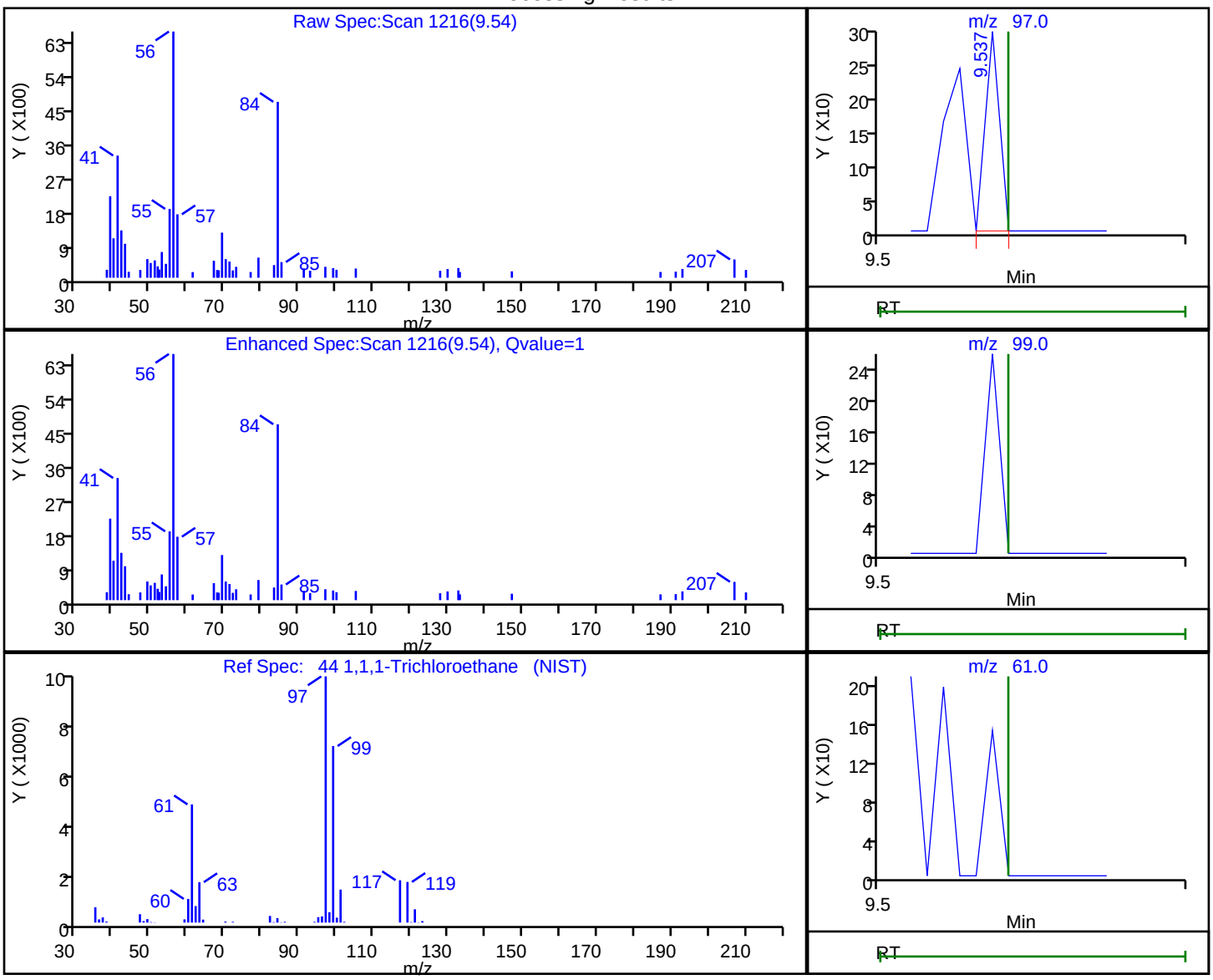
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.54 | 97.00 | 93 | 0.000696 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

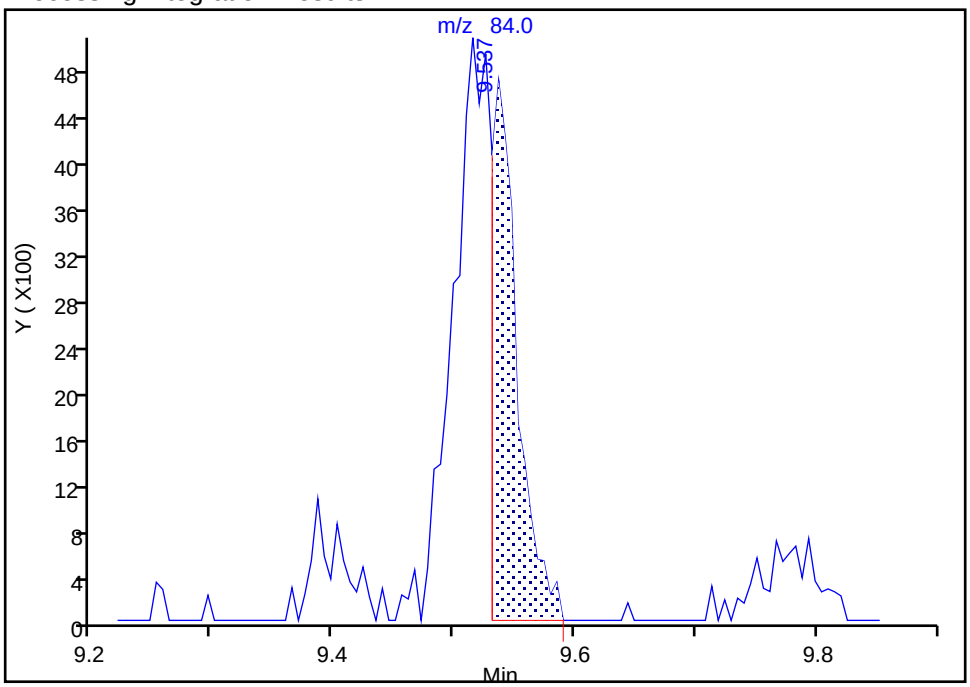
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

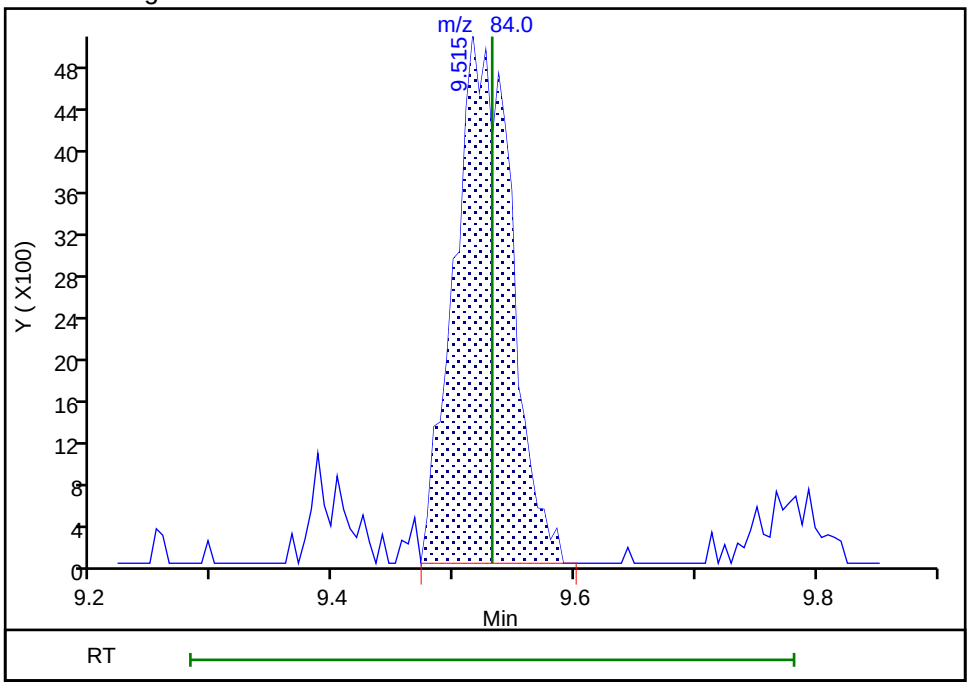
Processing Integration Results

RT: 9.54
Area: 7113
Amount: 0.128918
Amount Units: ppb v/v




Manual Integration Results

RT: 9.52
Area: 16714
Amount: 0.302928
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 12:00:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

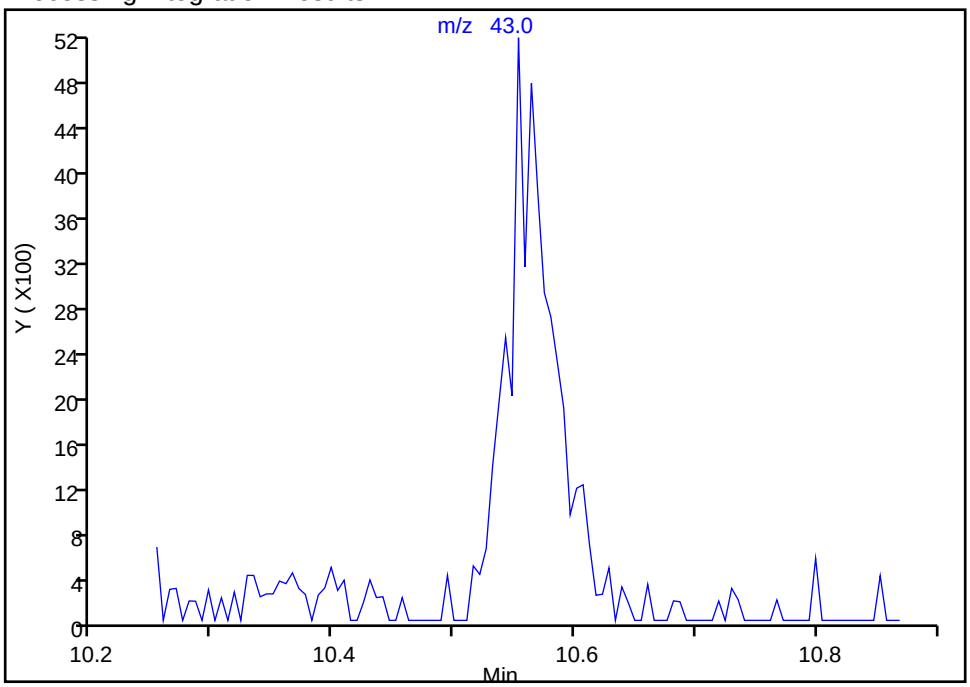
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5

Signal: 1

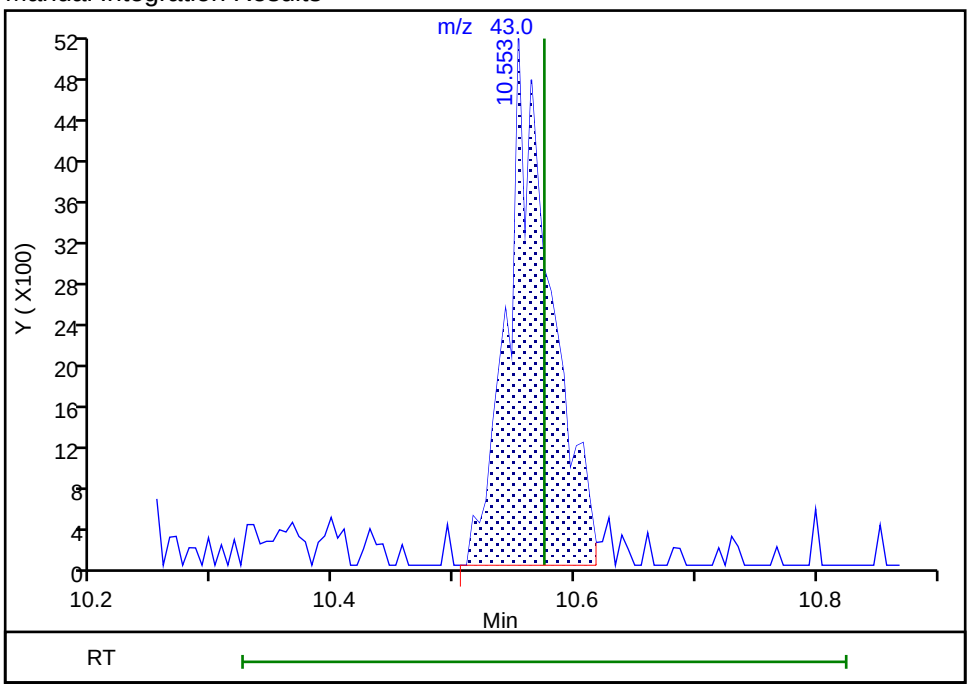
Not Detected
Expected RT: 10.57

Processing Integration Results




Manual Integration Results

RT: 10.55
Area: 12736
Amount: 0.193381
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 08:56:59
Audit Action: Manually Integrated Audit Reason: Assign Peak

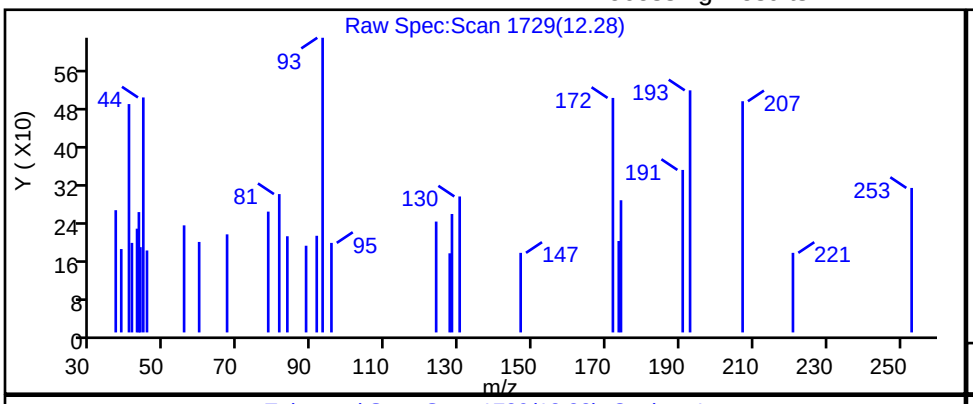
User Disabled Compound Report

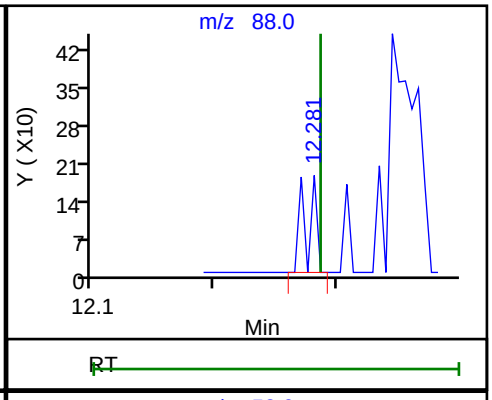
TestAmerica Burlington

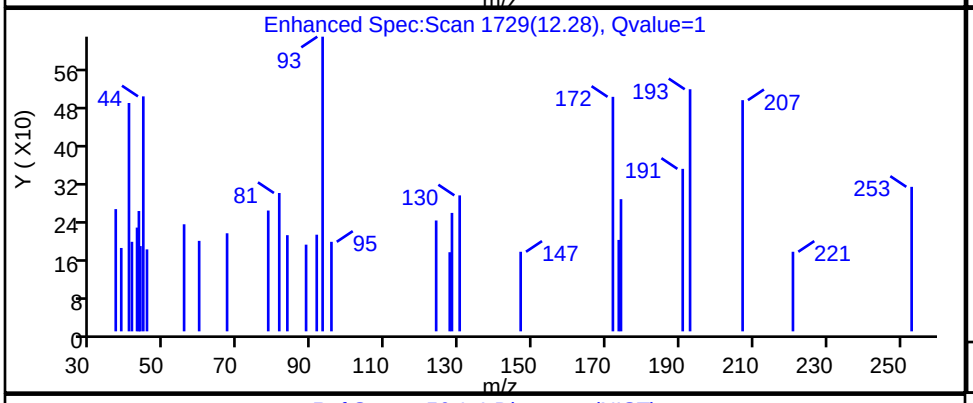
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

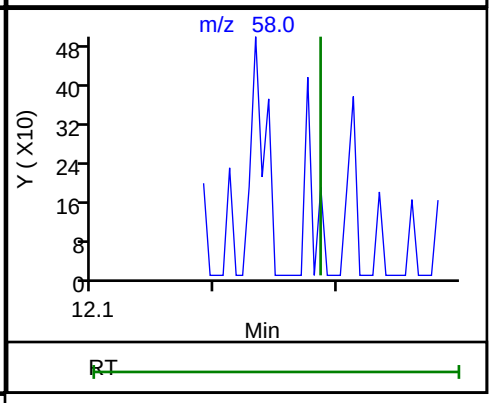
## 56 1,4-Dioxane, CAS: 123-91-1

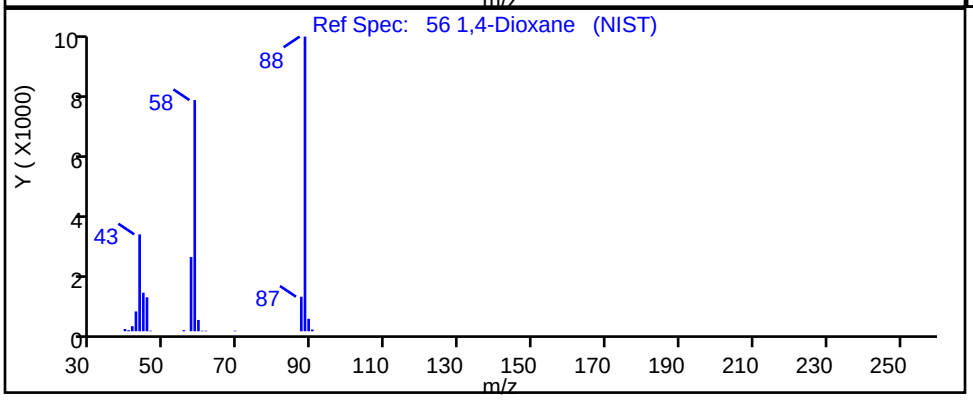
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.28 | 88.00 | 117 | 0.004973 |
| 12.29 | 58.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

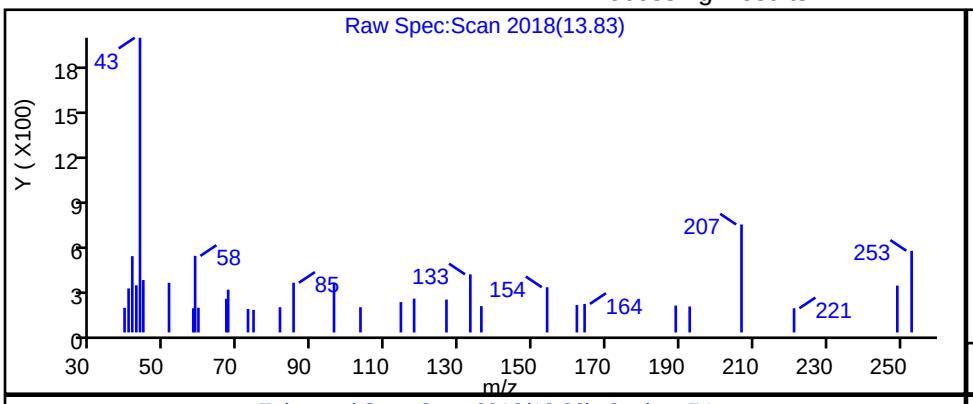
User Disabled Compound Report

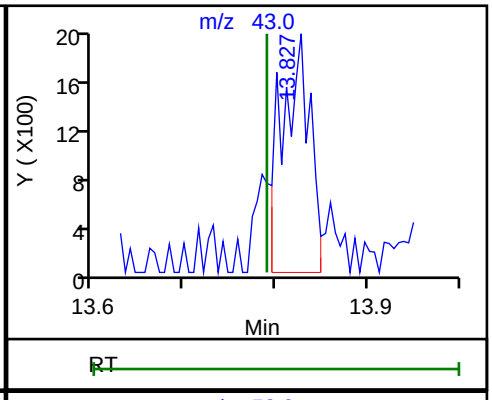
TestAmerica Burlington

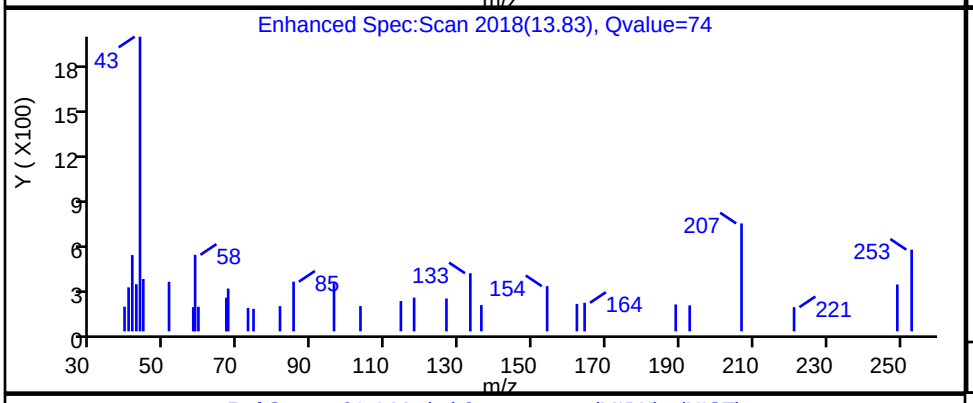
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

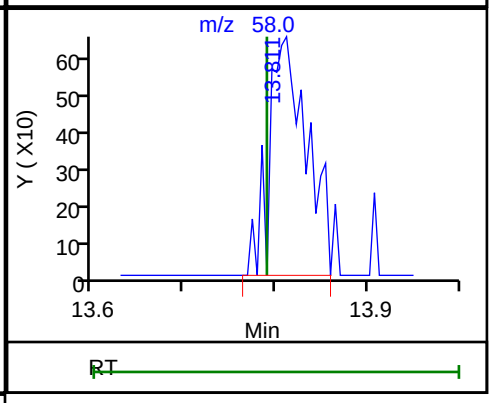
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

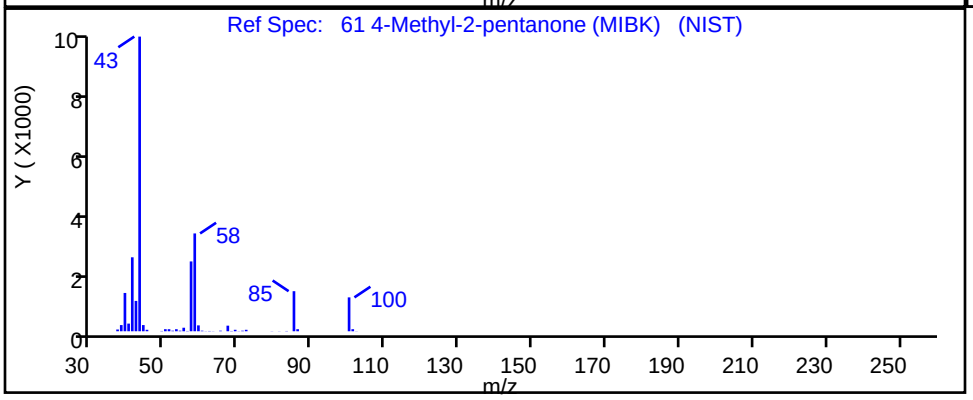
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.83 | 43.00 | 4192 | 0.050363 |
| 13.81 | 58.00 | 1872 | |

Reviewer: bunmaa, 07-Dec-2018 08:57:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

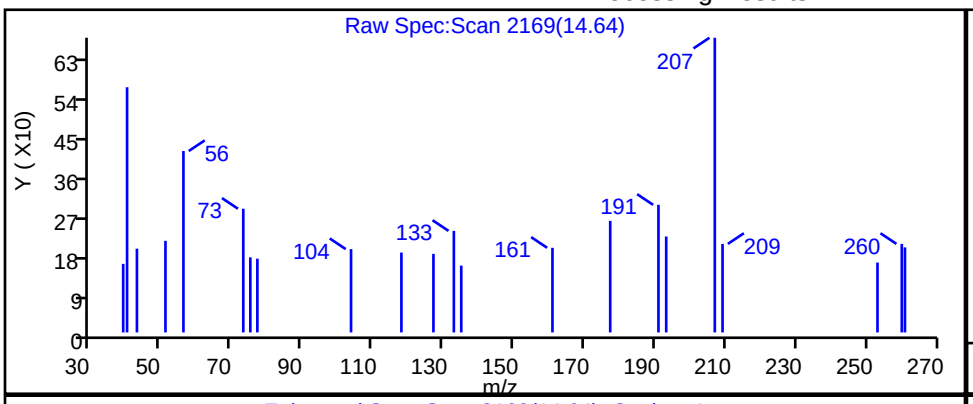
User Disabled Compound Report

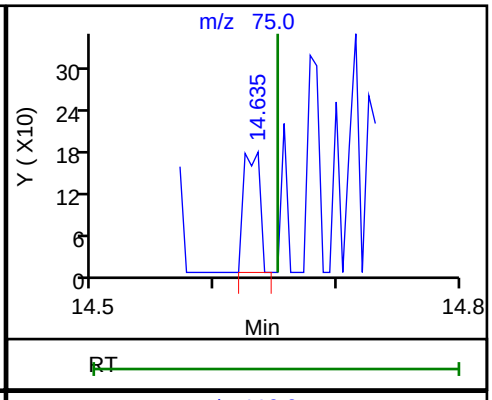
TestAmerica Burlington

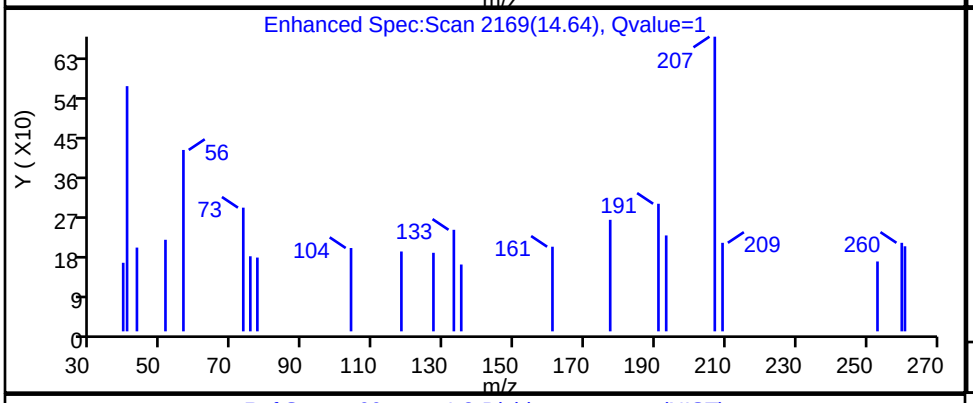
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

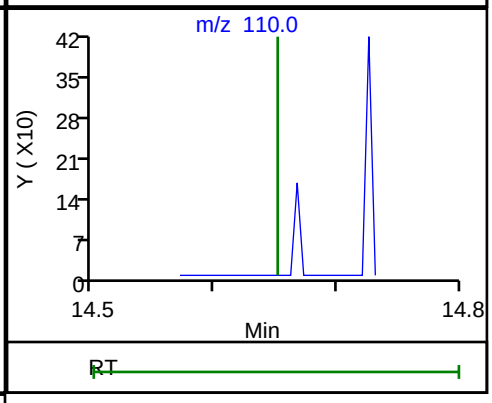
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

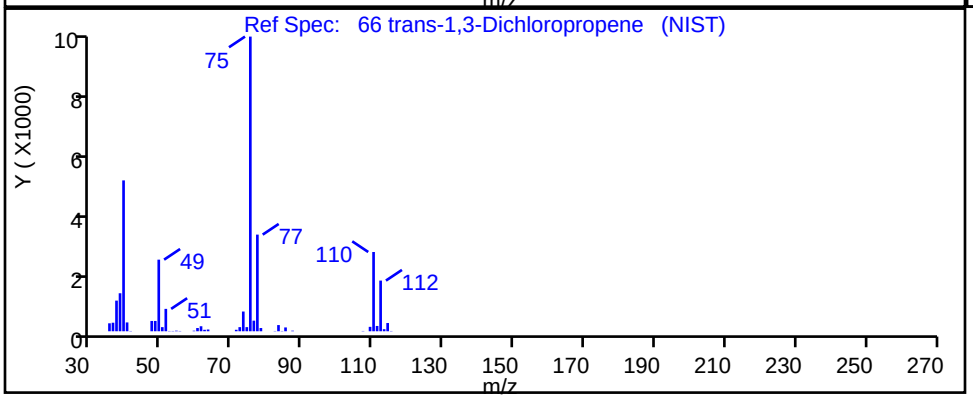
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.64 | 75.00 | 160 | 0.002020 |
| 14.65 | 110.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

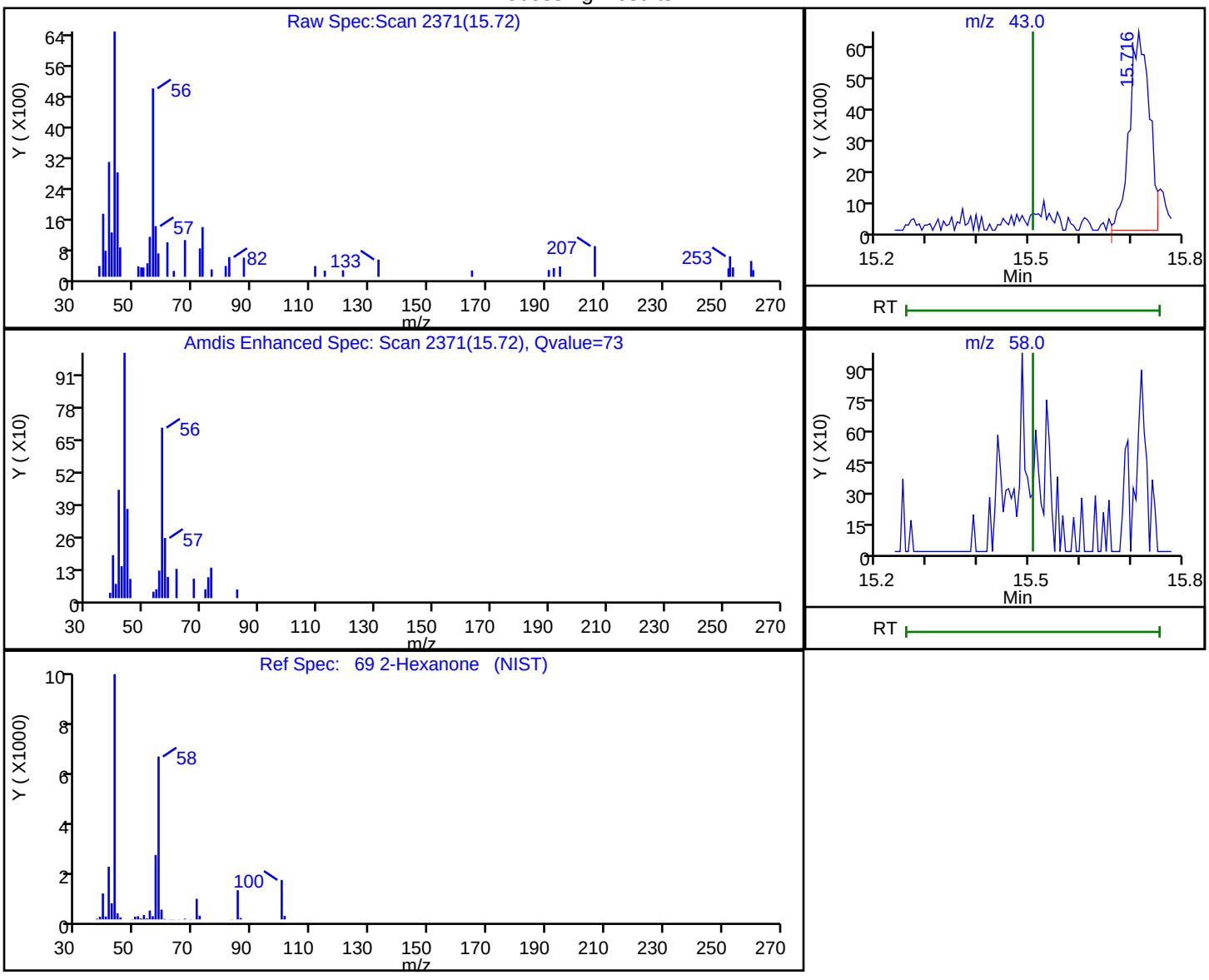
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 69 2-Hexanone, CAS: 591-78-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.72 | 43.00 | 17549 | 0.205311 |
| 15.51 | 58.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

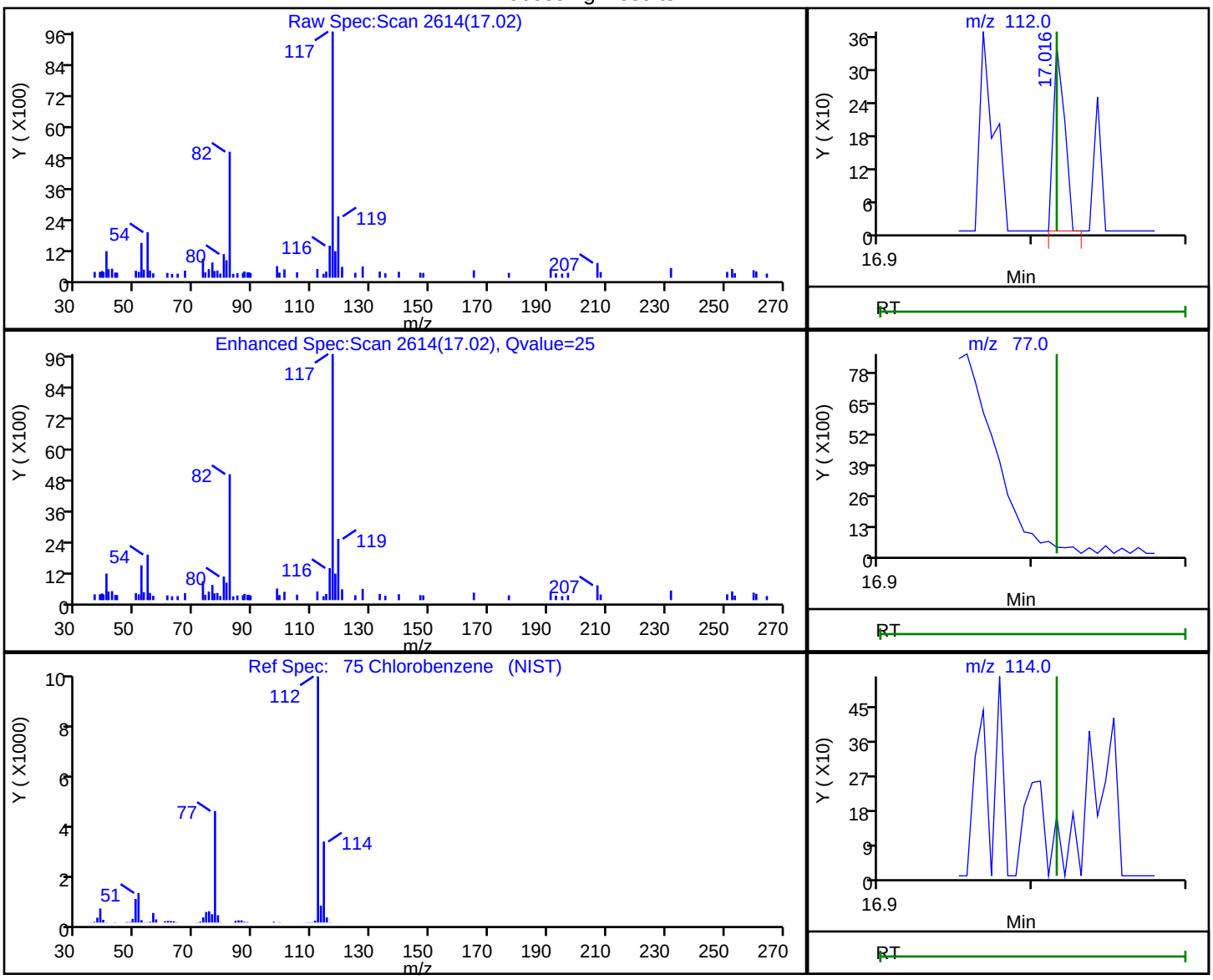
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.02 | 112.00 | 175 | 0.001170 |
| 17.02 | 77.00 | 0 | |
| 17.02 | 114.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 08:57:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

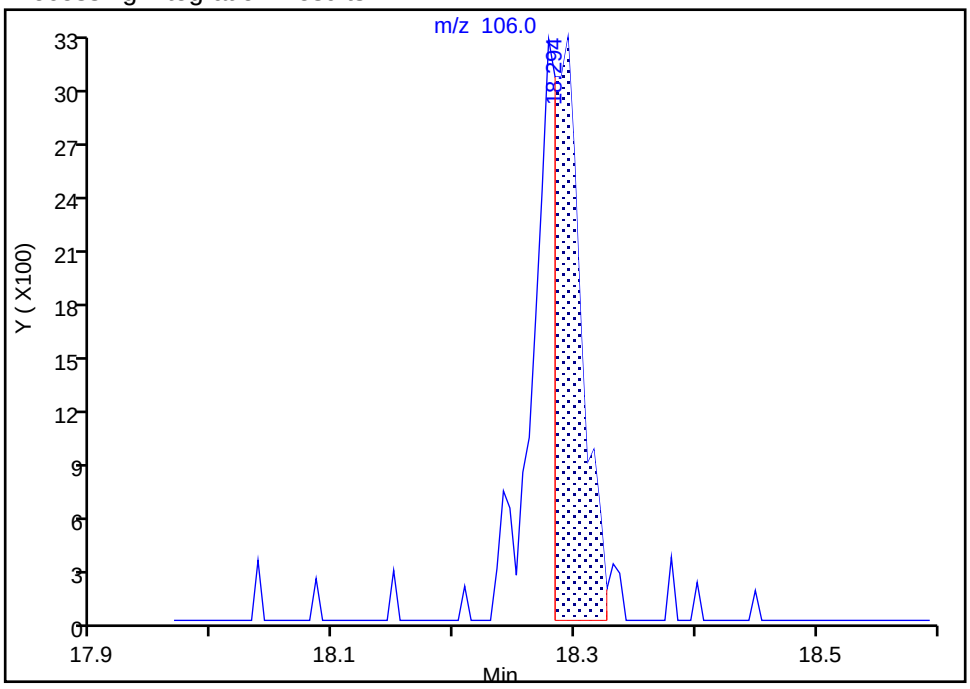
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6

Signal: 1

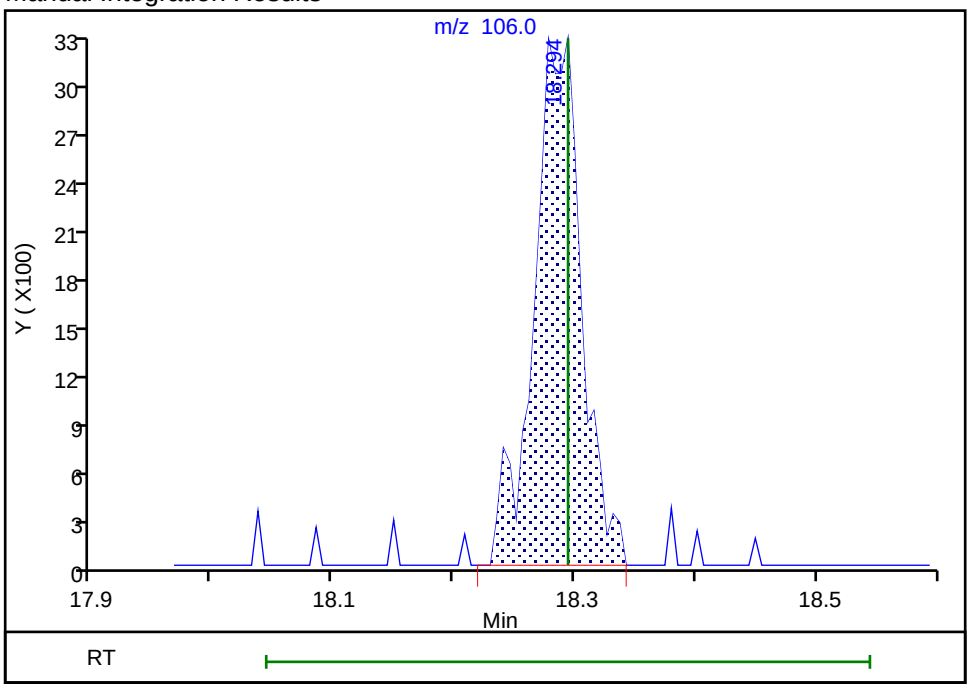
Processing Integration Results

RT: 18.29
Area: 5160
Amount: 0.061162
Amount Units: ppb v/v




Manual Integration Results

RT: 18.29
Area: 8884
Amount: 0.105304
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 12:00:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 07-Dec-2018 09:00:20 Chrom Revision: 2.3 21-Nov-2018 13:56:44

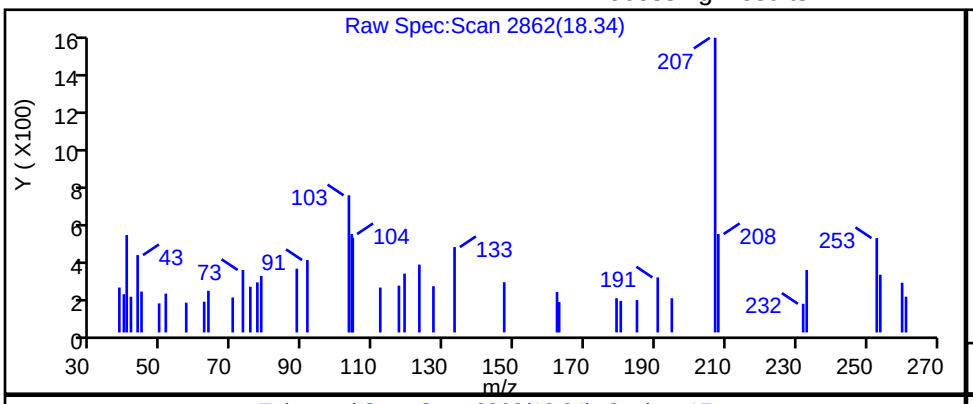
User Disabled Compound Report

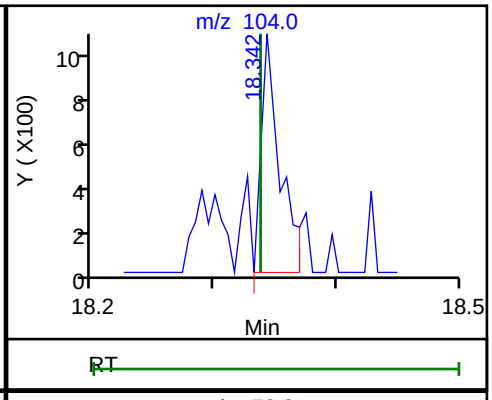
TestAmerica Burlington

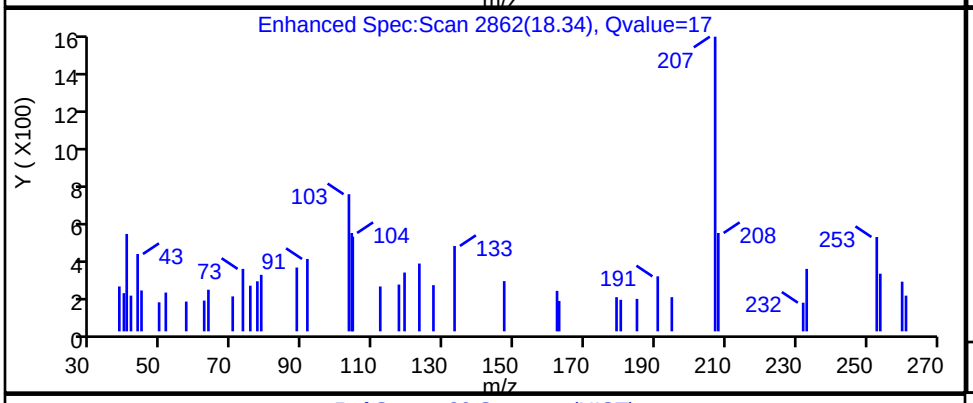
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

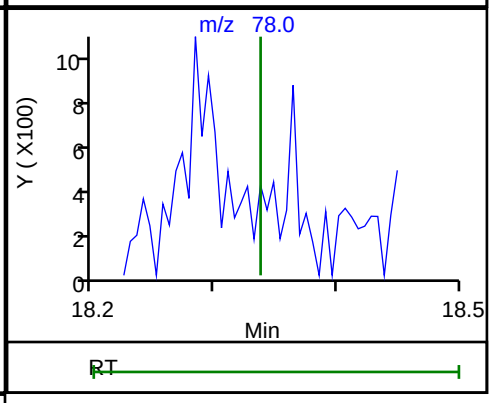
## 80 Styrene, CAS: 100-42-5

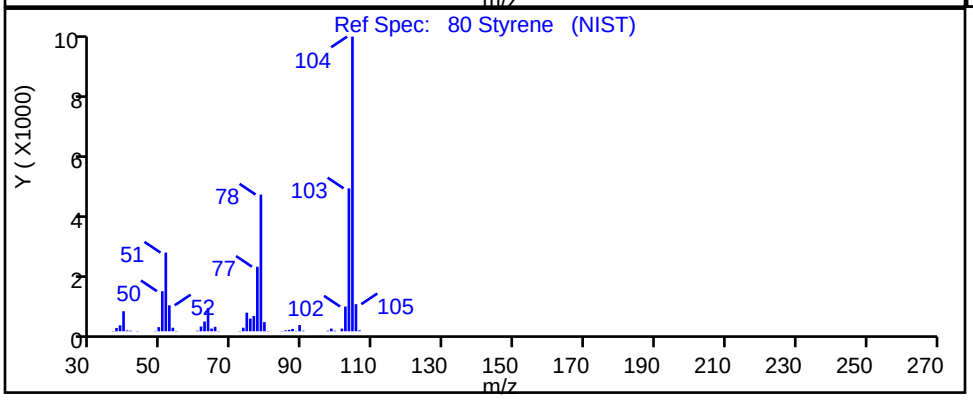
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.34 | 104.00 | 1071 | 0.008293 |
| 18.34 | 78.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 08:58:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

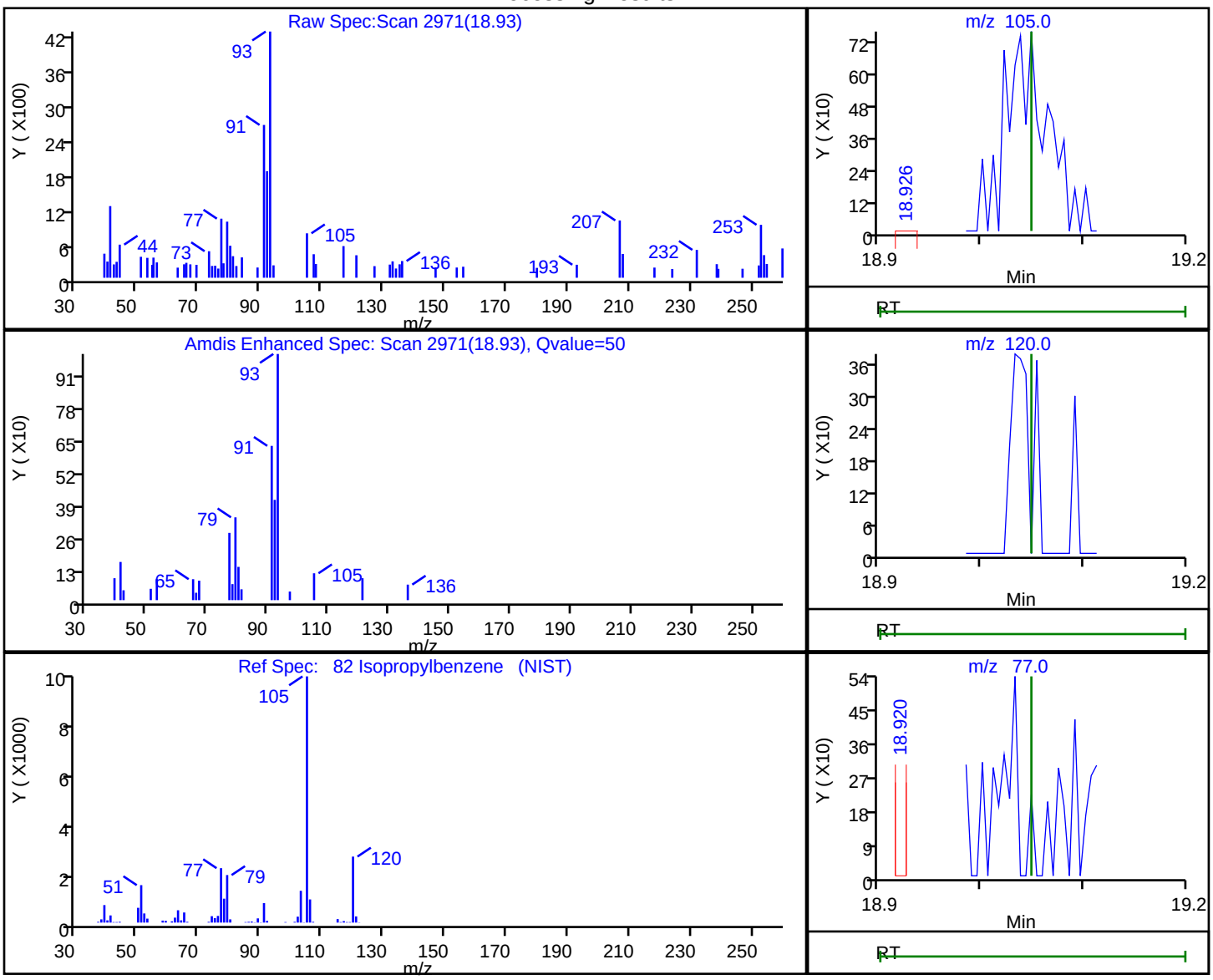
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.93 | 105.00 | 721 | 0.002923 |
| 19.05 | 120.00 | 0 | |
| 18.92 | 77.00 | 1086 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

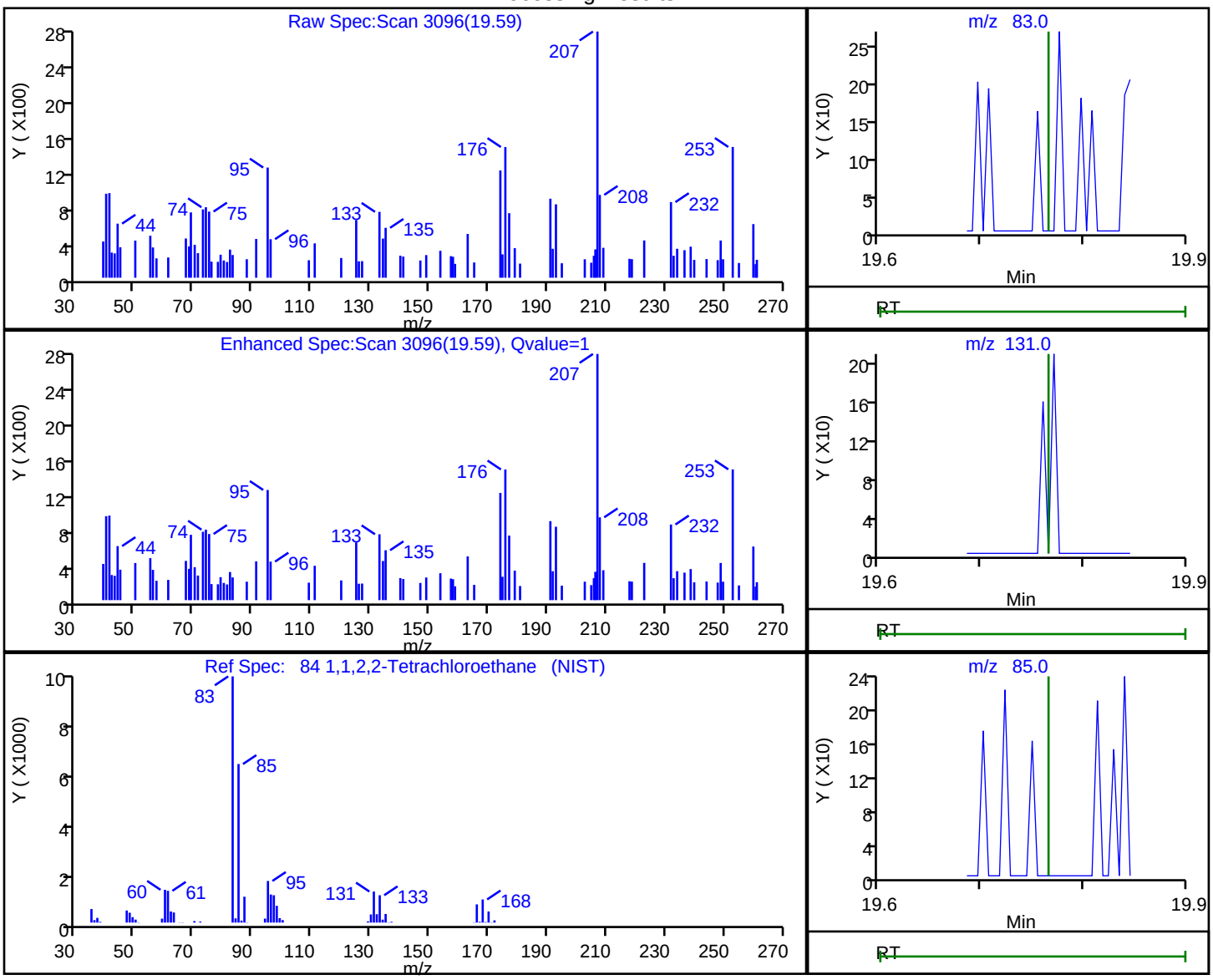
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.59 | 83.00 | 280 | 0.002080 |
| 19.77 | 131.00 | 0 | |
| 19.77 | 85.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

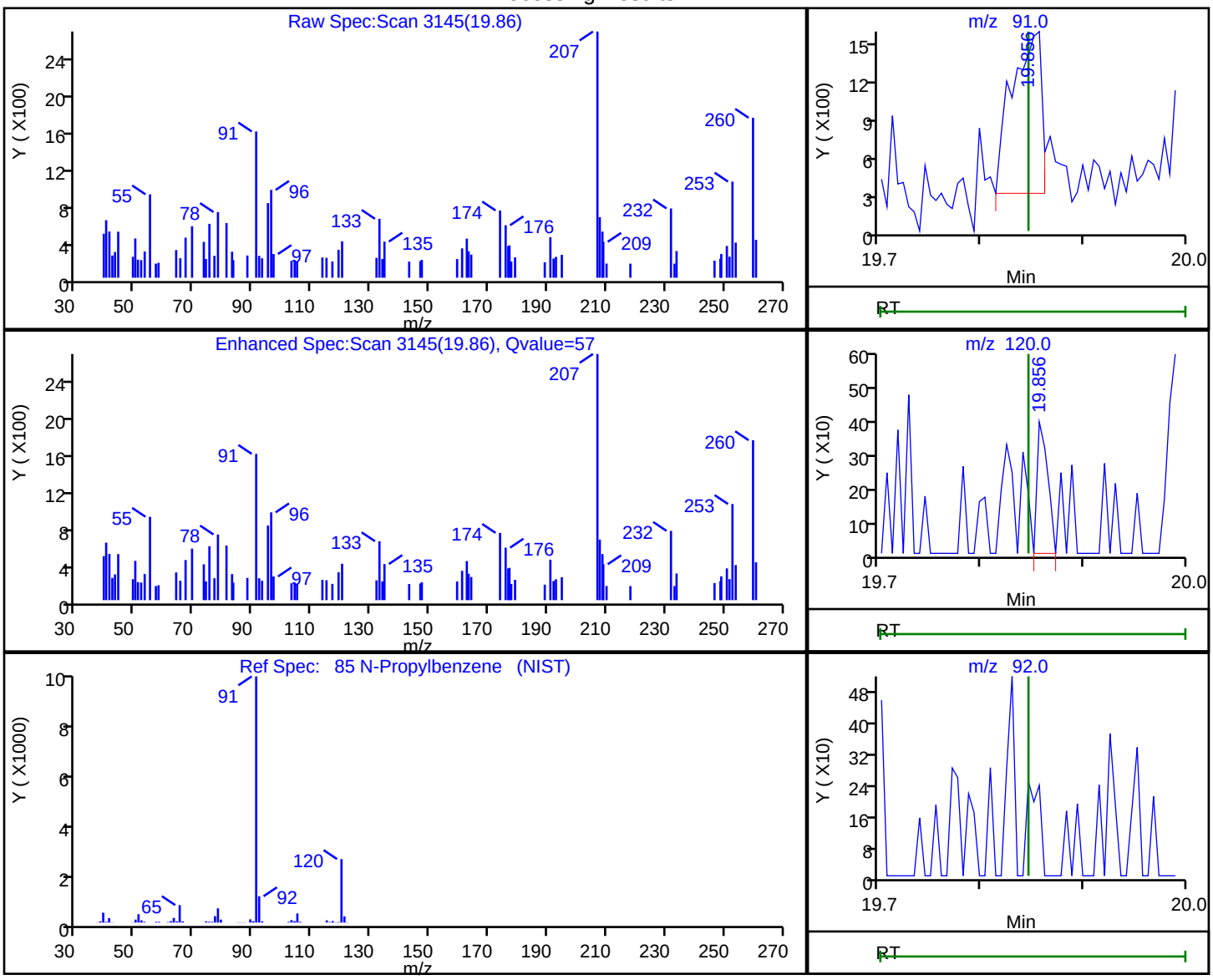
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.86 | 91.00 | 2578 | 0.008776 |
| 19.86 | 120.00 | 283 | |
| 19.85 | 92.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

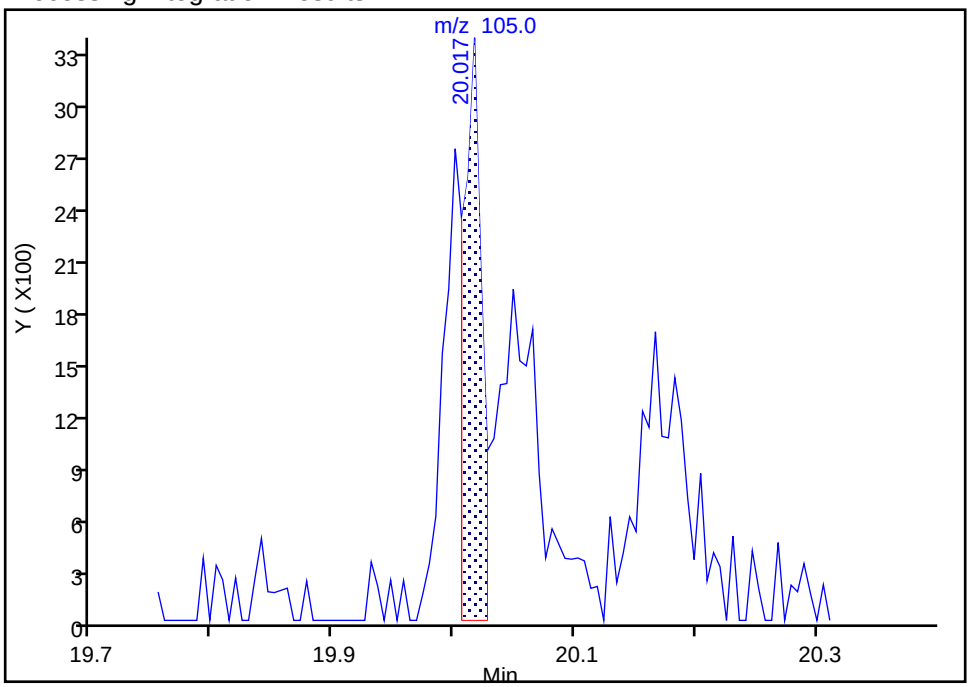
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

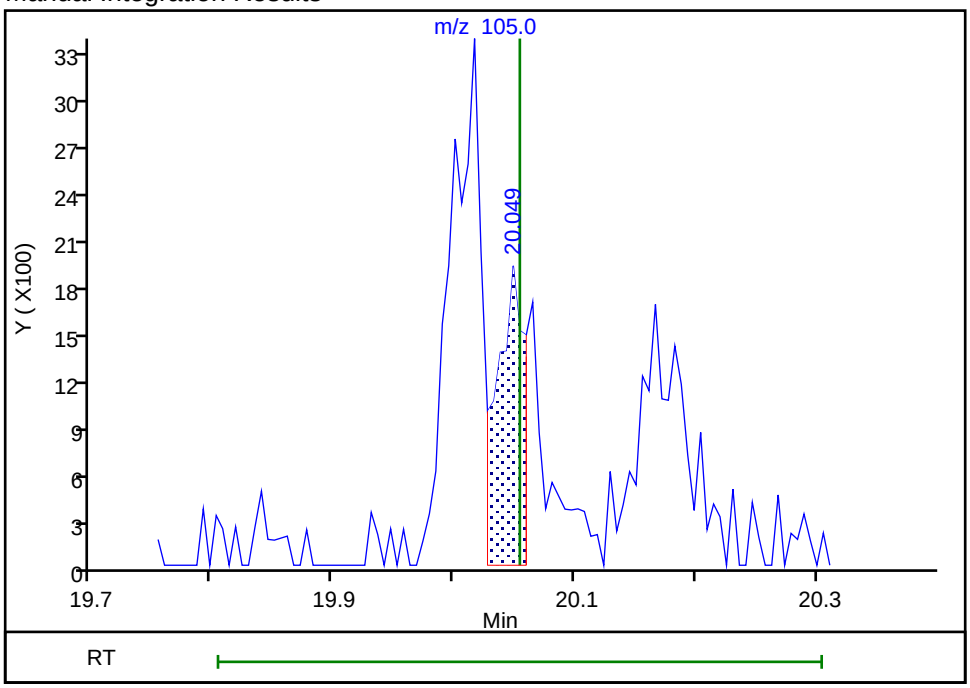
Processing Integration Results

RT: 20.02
Area: 3641
Amount: 0.014560
Amount Units: ppb v/v




Manual Integration Results

RT: 20.05
Area: 3128
Amount: 0.012509
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 08:58:48
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

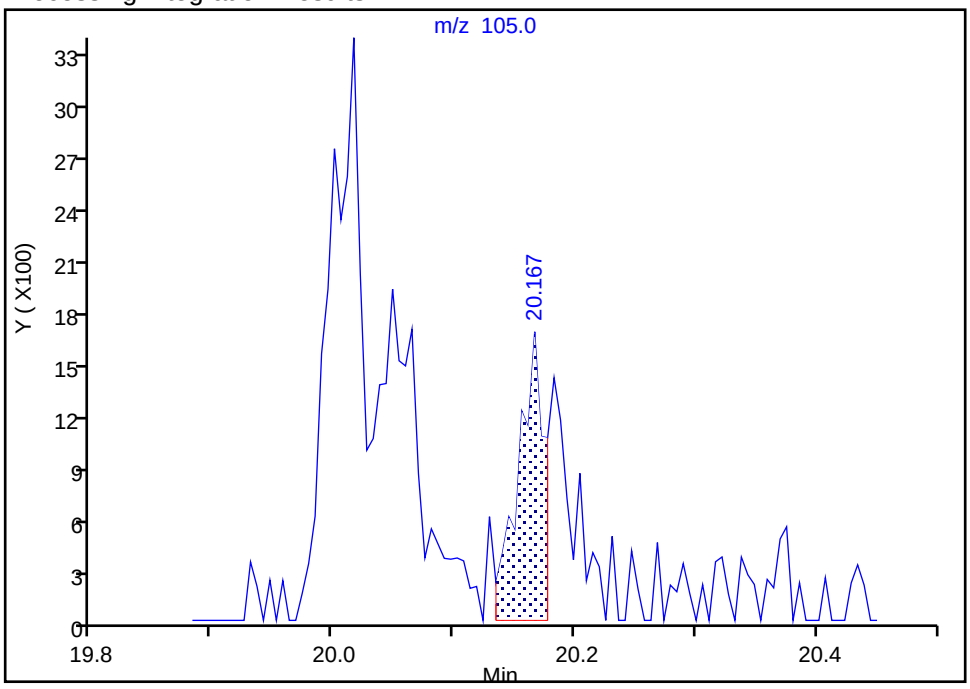
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

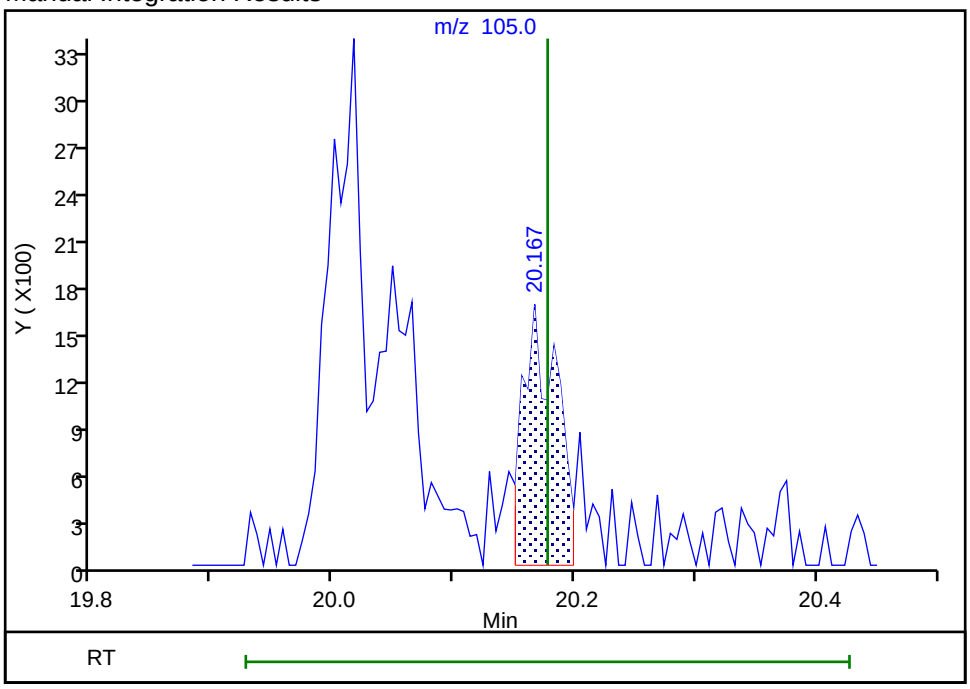
Processing Integration Results

RT: 20.17
Area: 2537
Amount: 0.011858
Amount Units: ppb v/v




Manual Integration Results

RT: 20.17
Area: 3319
Amount: 0.015513
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 08:59:26

Audit Action: Manually Integrated Audit Reason: Assign Peak

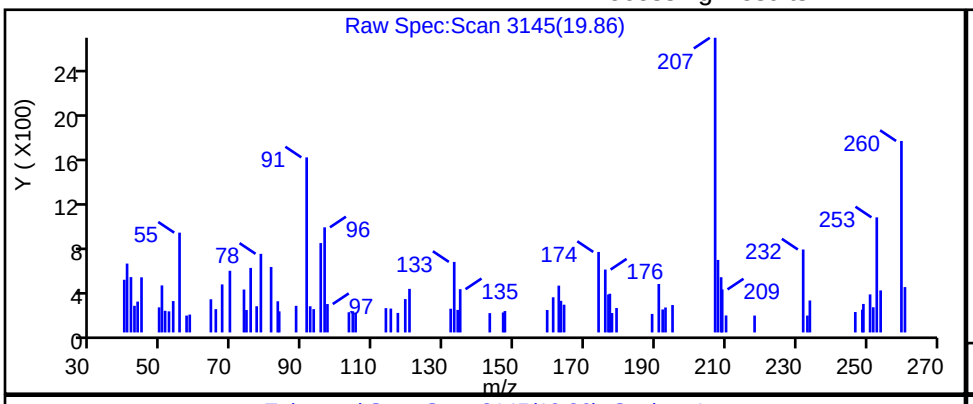
User Disabled Compound Report

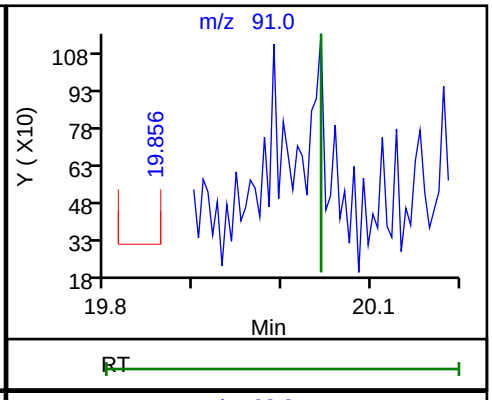
TestAmerica Burlington

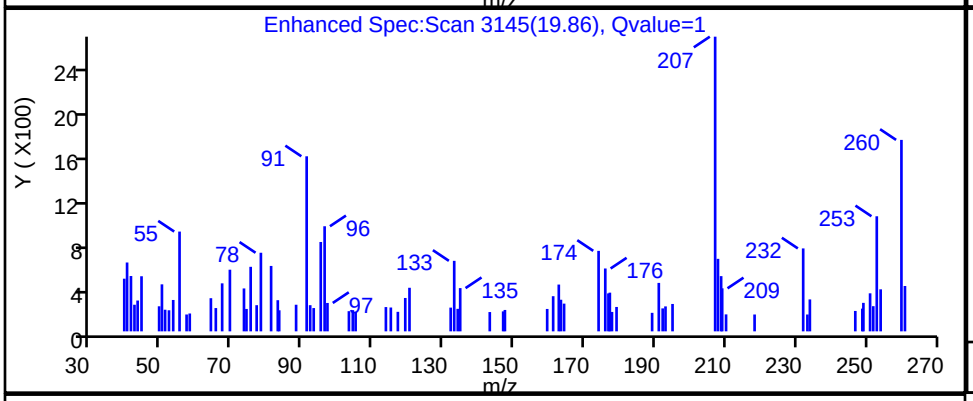
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

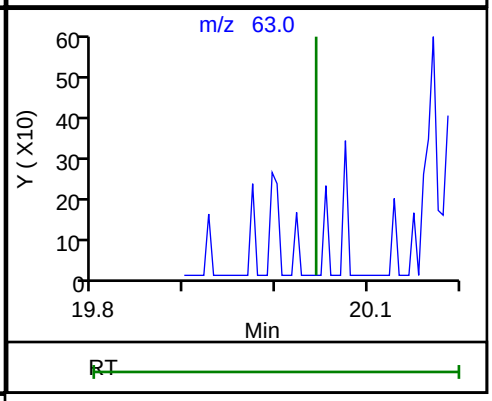
## 89 2-Chlorotoluene, CAS: 95-49-8

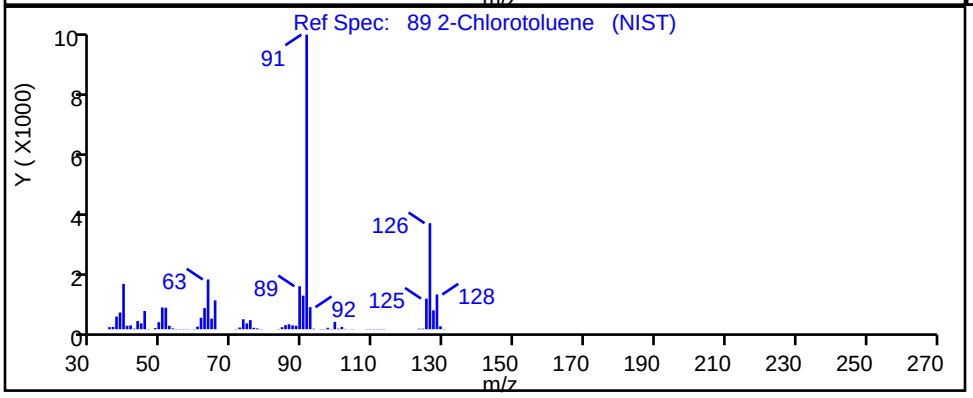
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.86 | 91.00 | 2578 | 0.011621 |
| 20.04 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:00:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

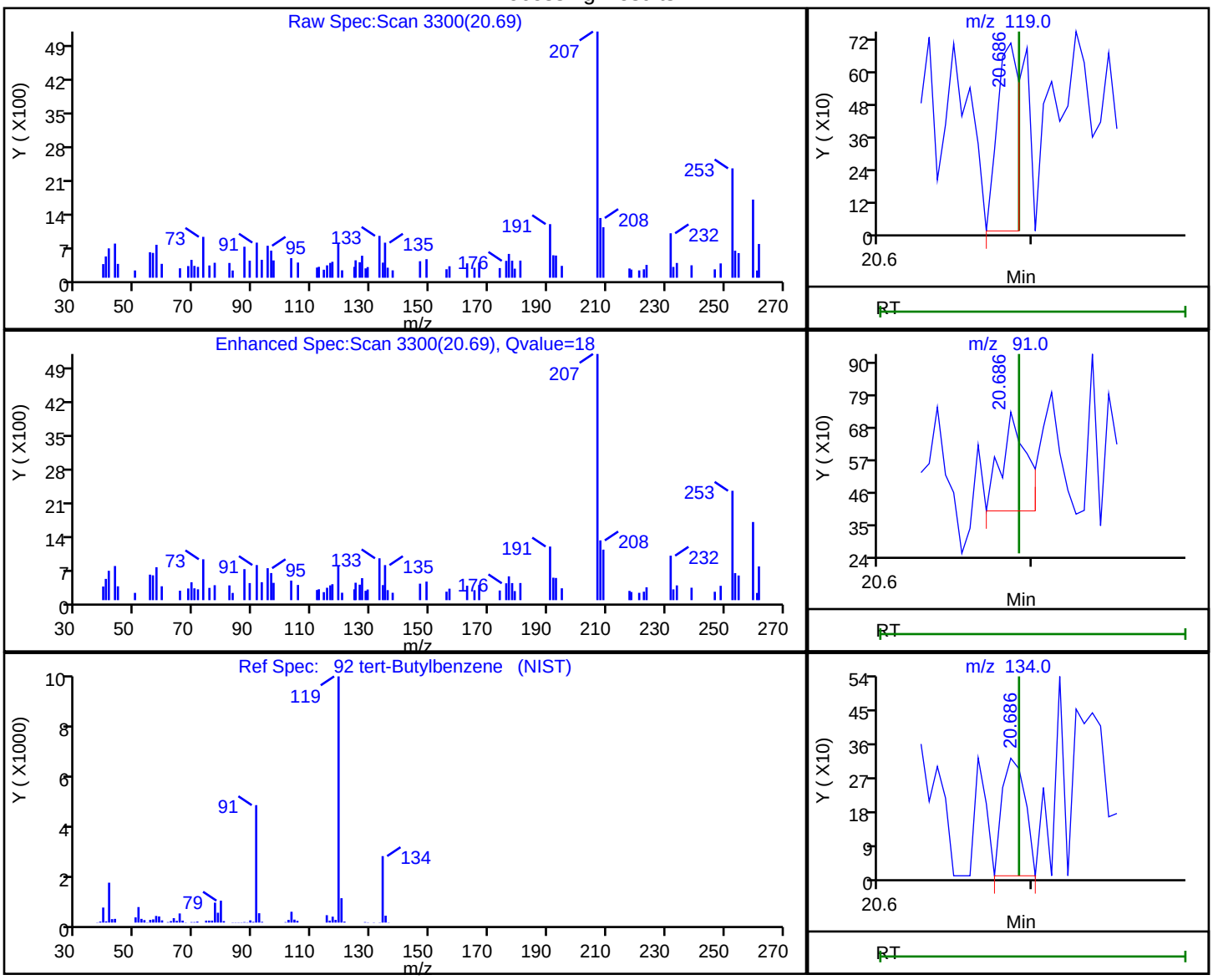
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.69 | 119.00 | 707 | 0.003533 |
| 20.69 | 91.00 | 391 | |
| 20.69 | 134.00 | 326 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

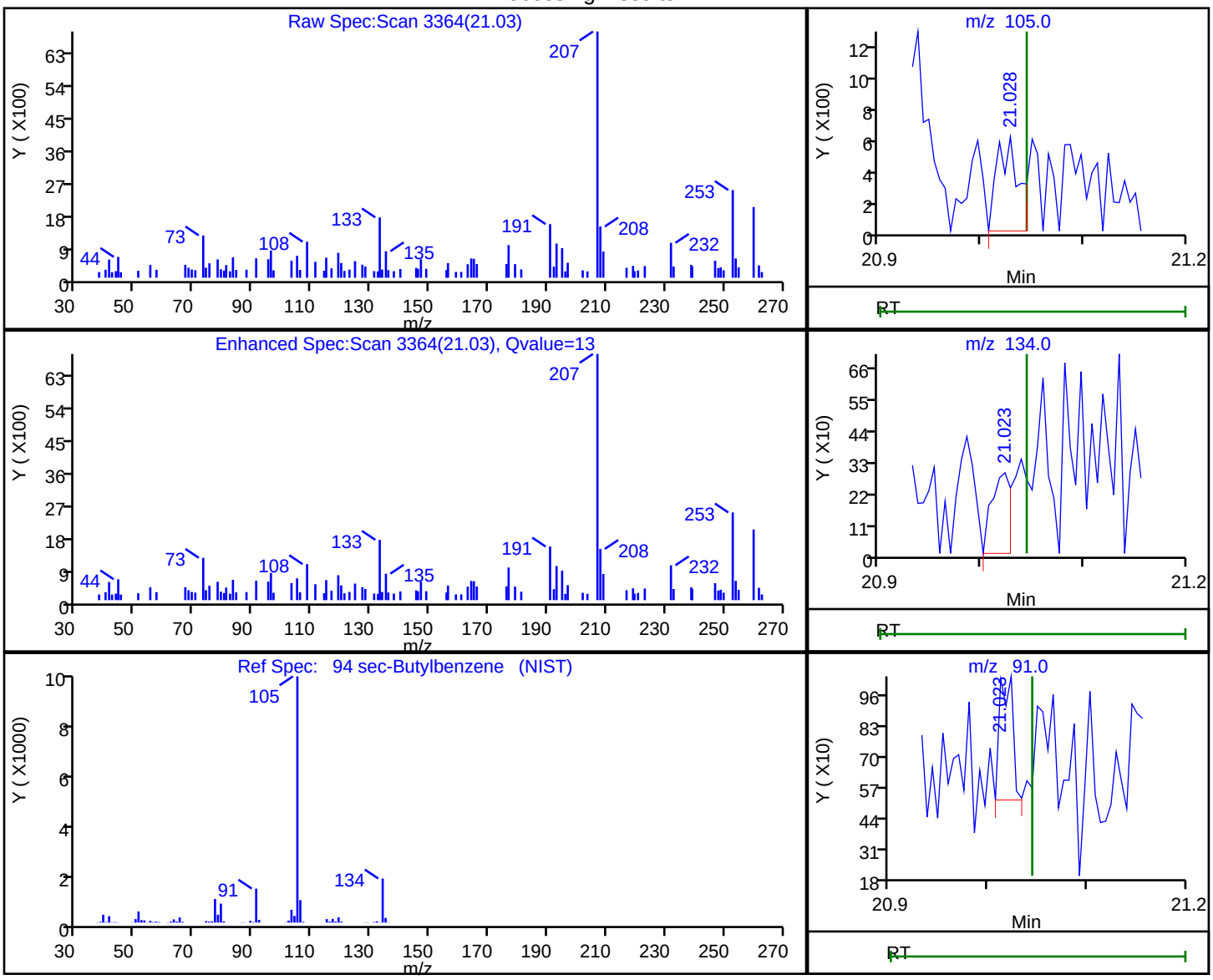
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.03 | 105.00 | 899 | 0.003029 |
| 21.02 | 134.00 | 368 | |
| 21.02 | 91.00 | 479 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

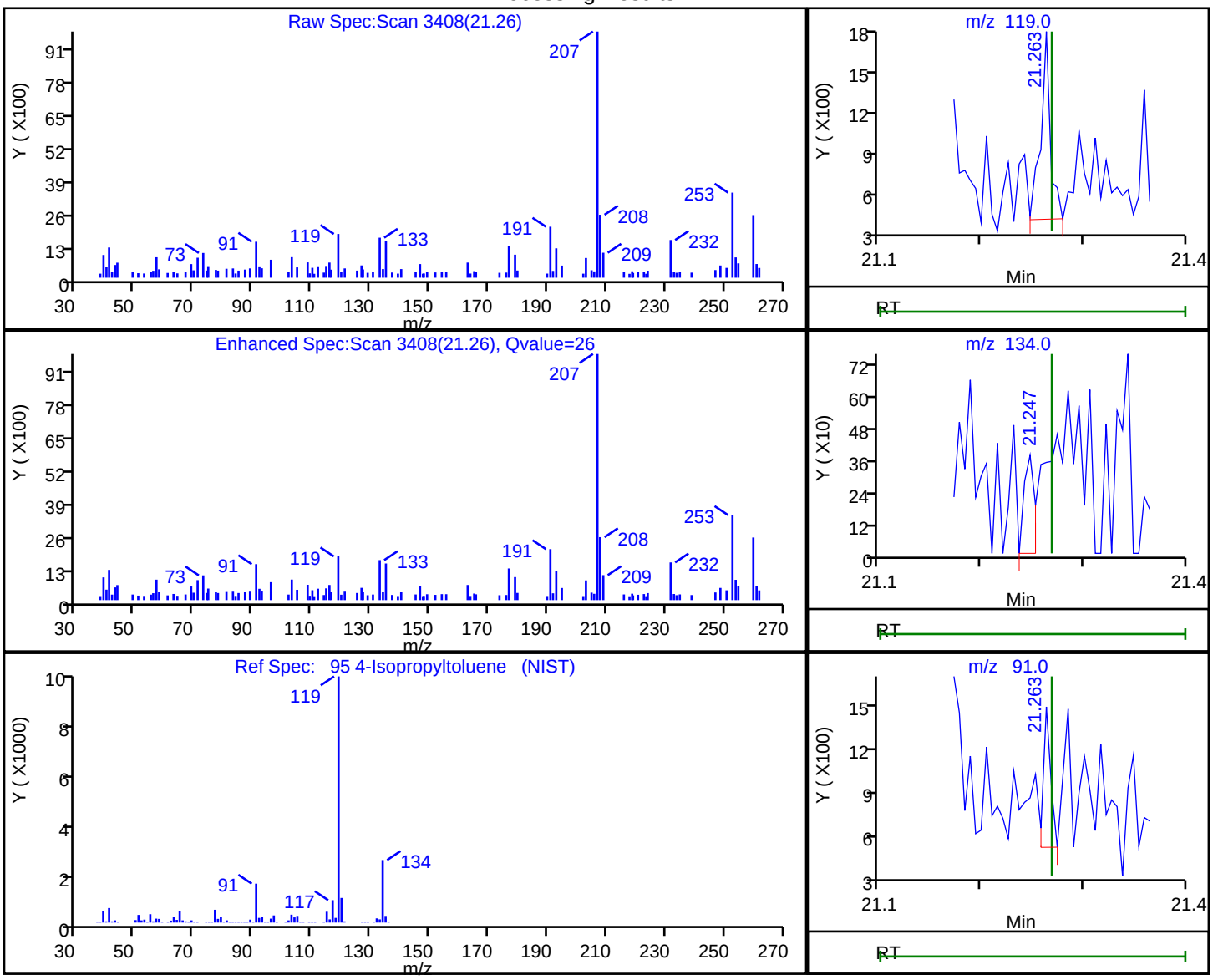
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 119.00 | 864 | 0.003397 |
| 21.25 | 134.00 | 265 | |
| 21.26 | 91.00 | 457 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

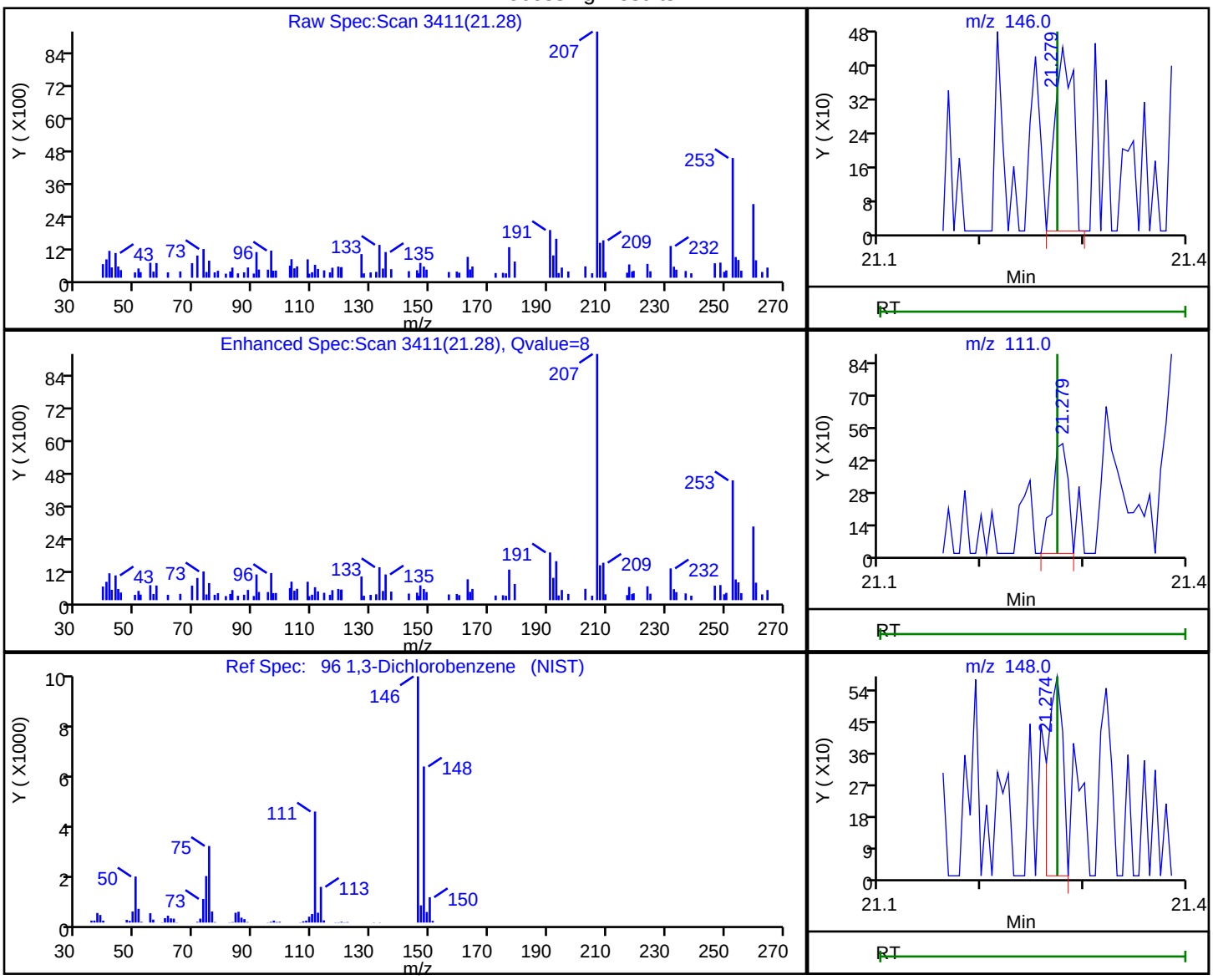
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.28 | 146.00 | 541 | 0.003162 |
| 21.28 | 111.00 | 511 | |
| 21.27 | 148.00 | 578 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

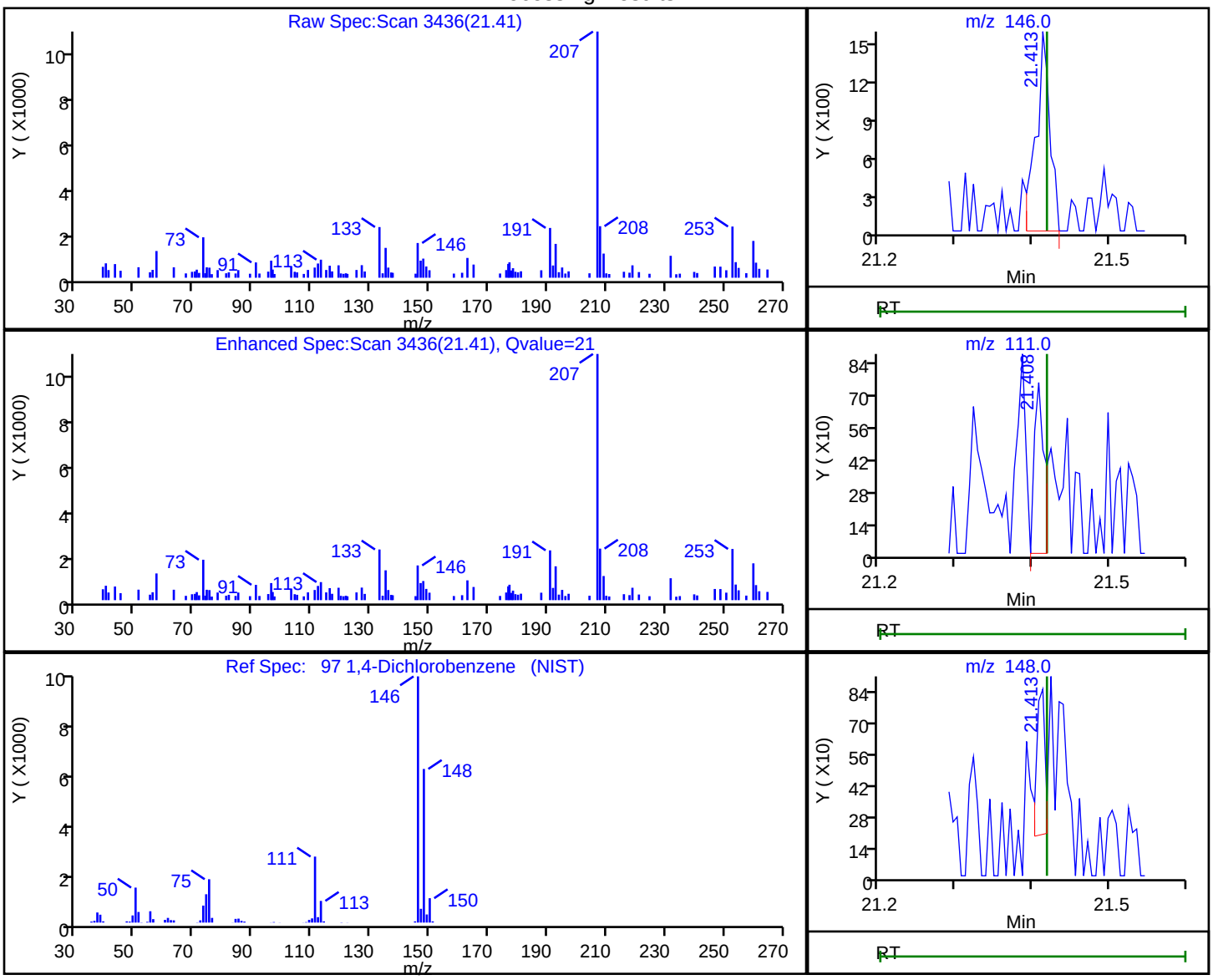
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.41 | 146.00 | 1944 | 0.011883 |
| 21.41 | 111.00 | 680 | |
| 21.41 | 148.00 | 505 | |

Reviewer: bunmaa, 07-Dec-2018 08:59:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

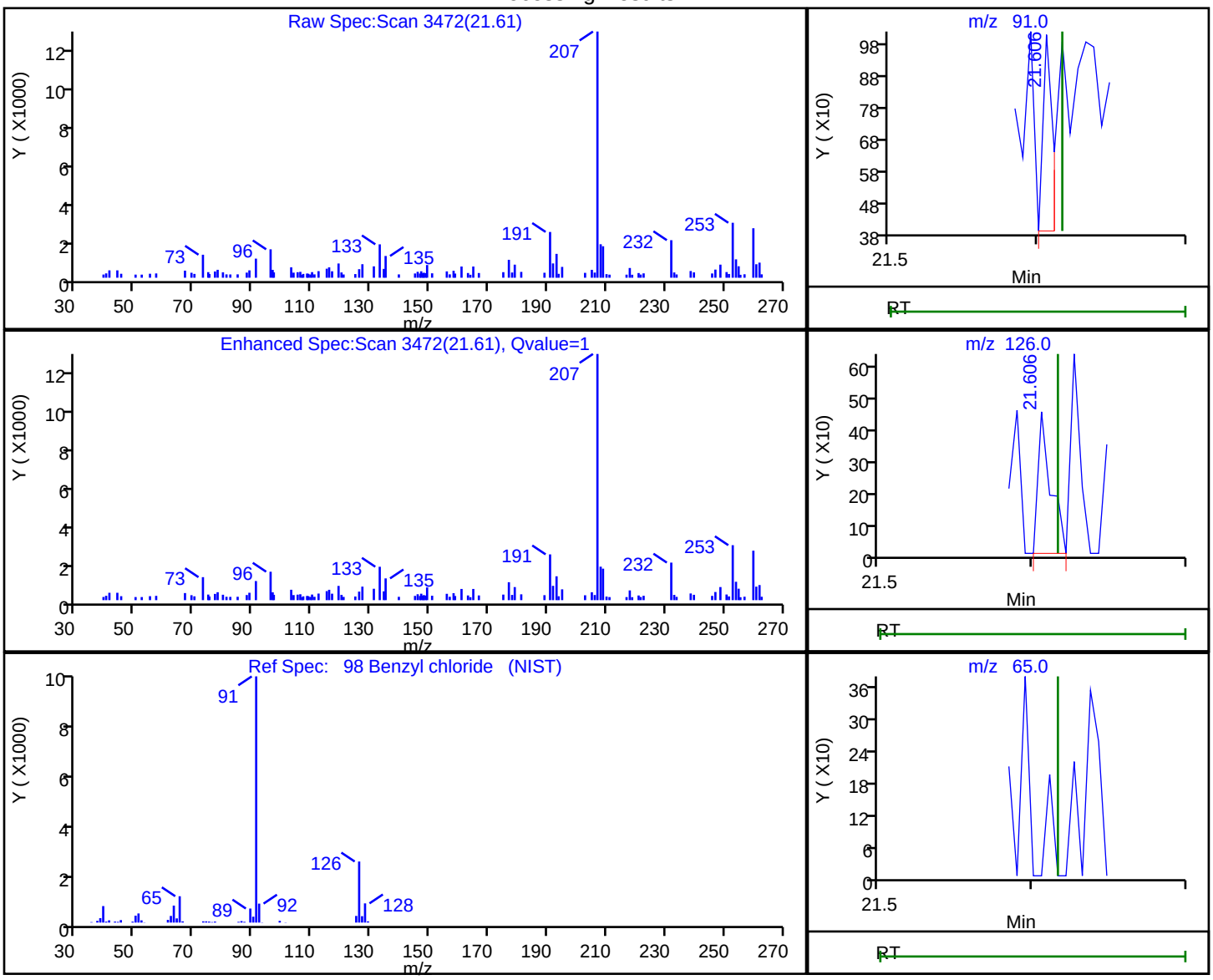
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.61 | 91.00 | 280 | 0.001387 |
| 21.61 | 126.00 | 261 | |
| 21.62 | 65.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

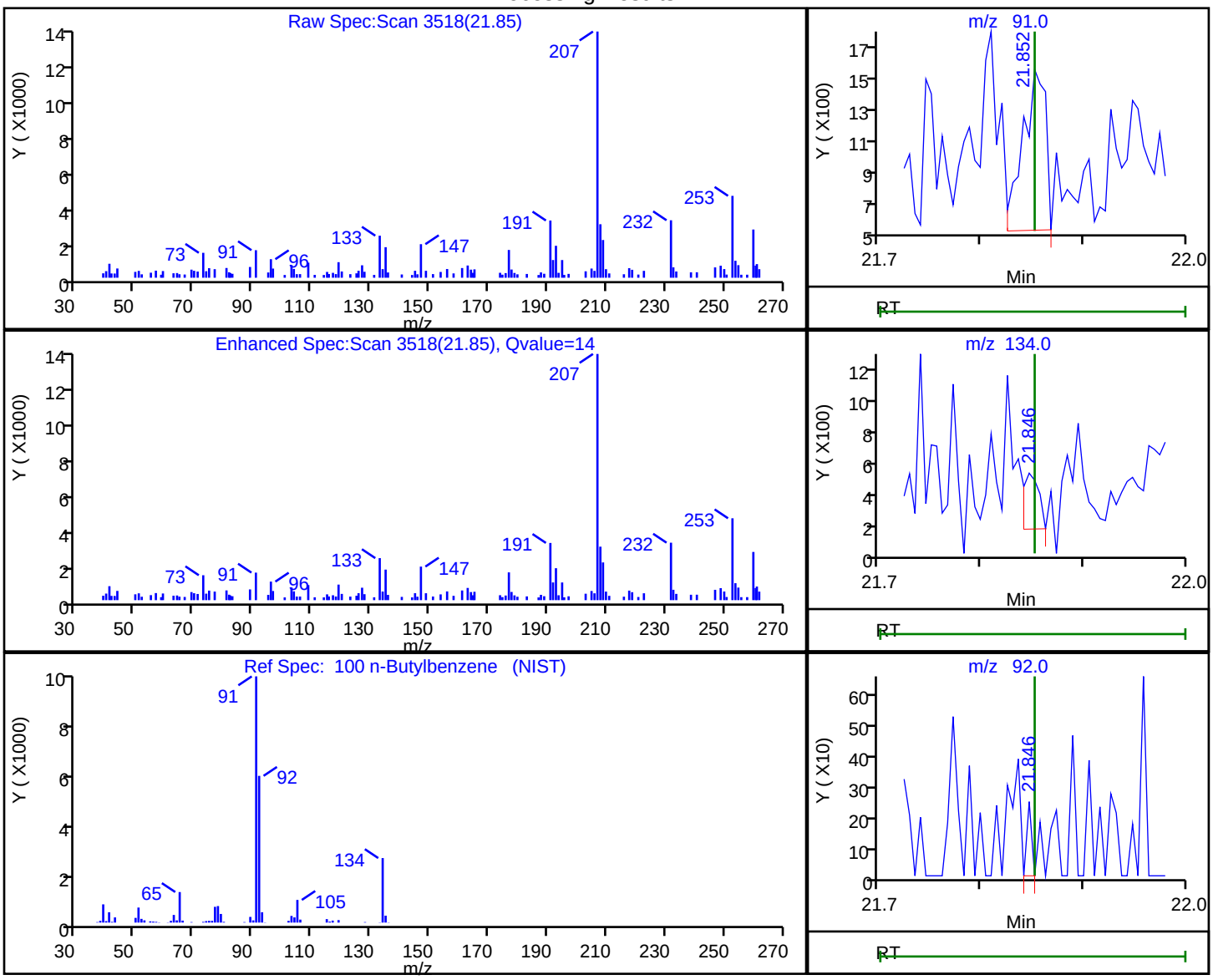
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 1484 | 0.006400 |
| 21.85 | 134.00 | 377 | |
| 21.85 | 92.00 | 78 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

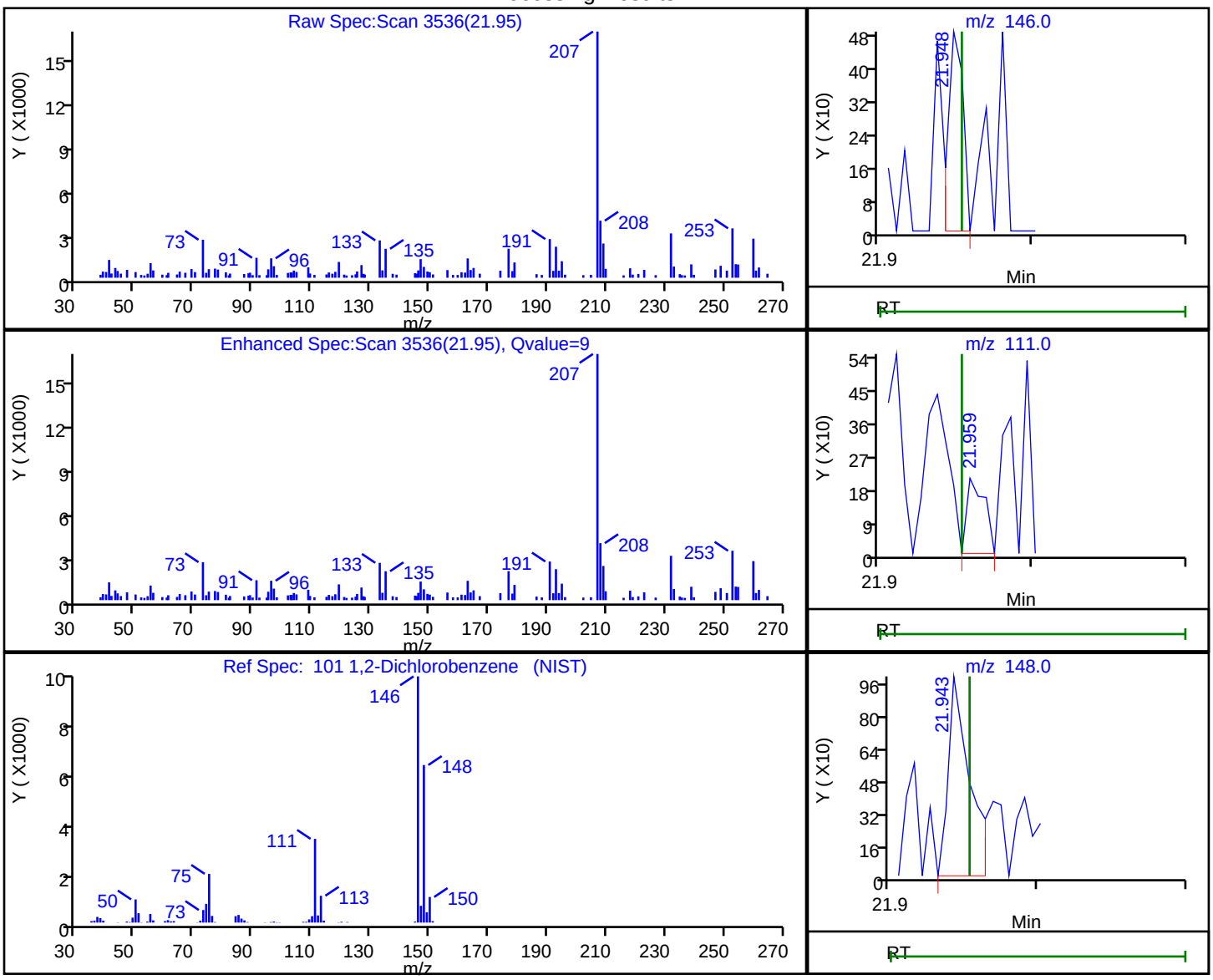
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.95 | 146.00 | 331 | 0.002105 |
| 21.96 | 111.00 | 164 | |
| 21.94 | 148.00 | 1006 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

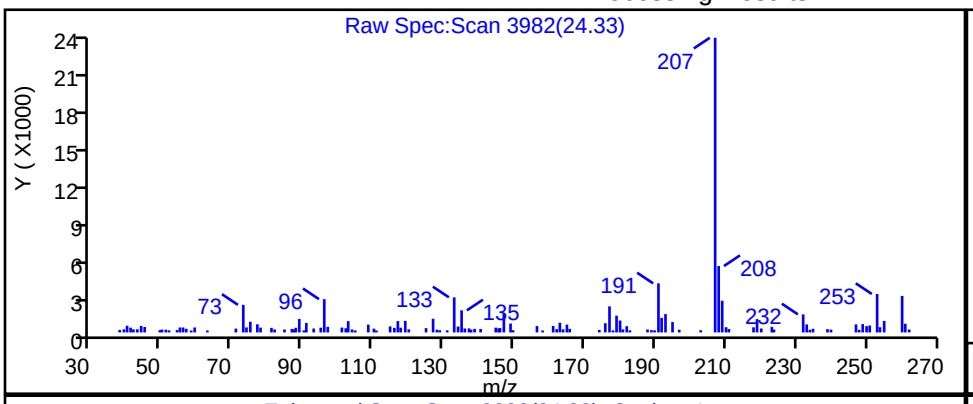
User Disabled Compound Report

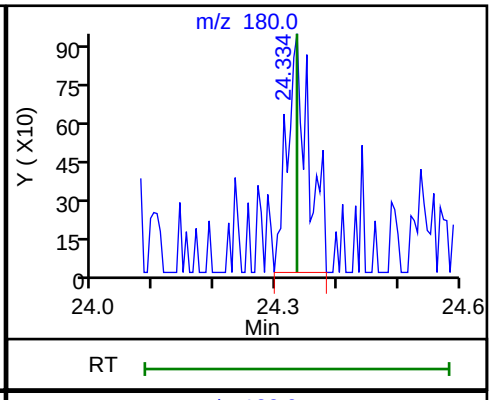
TestAmerica Burlington

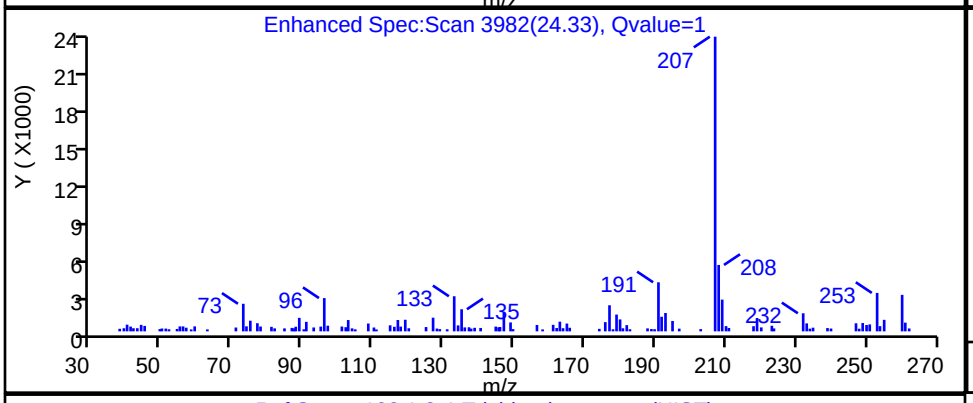
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

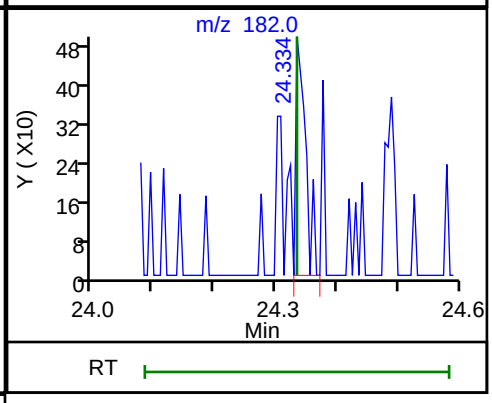
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

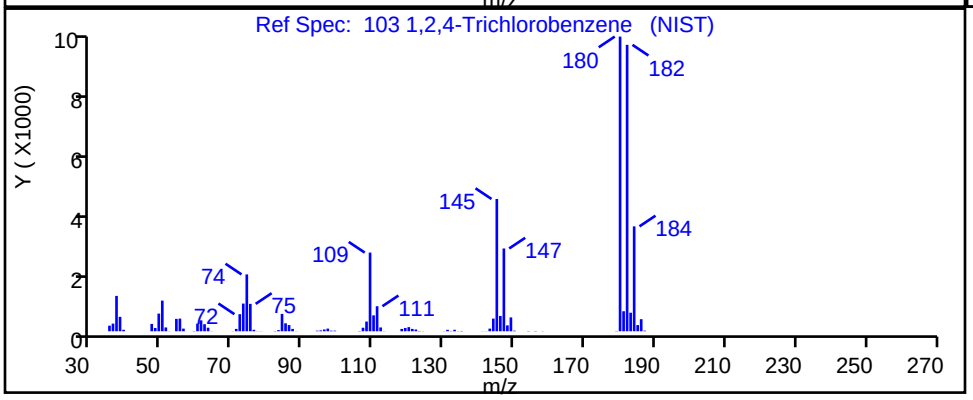
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.33 | 180.00 | 2320 | 0.019632 |
| 24.33 | 182.00 | 551 | |

Reviewer: bunmaa, 07-Dec-2018 09:00:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

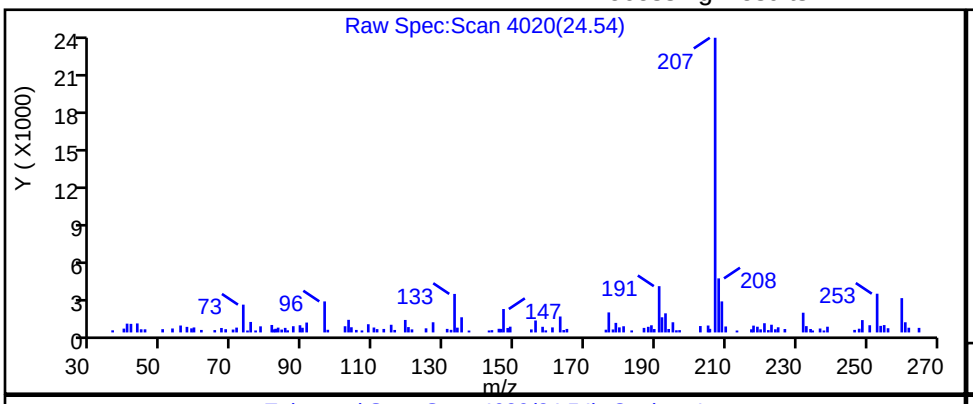
User Disabled Compound Report

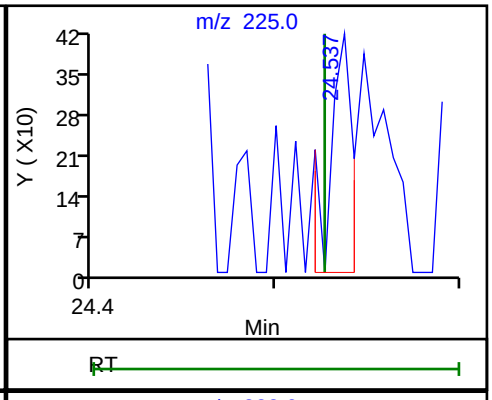
TestAmerica Burlington

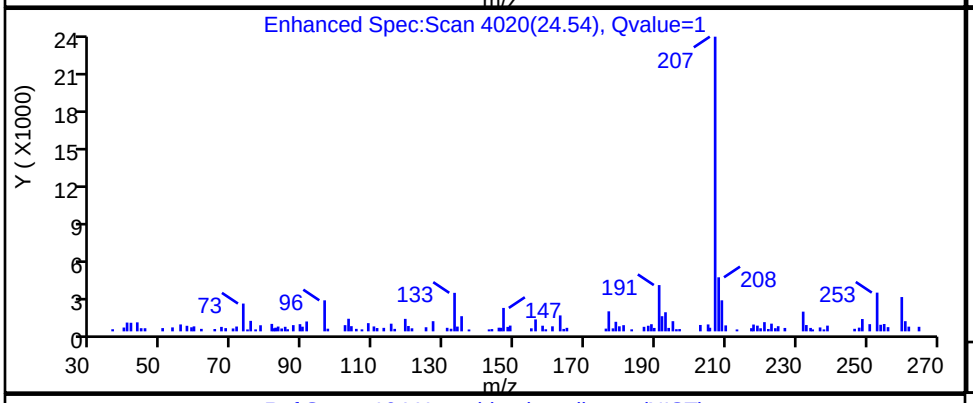
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

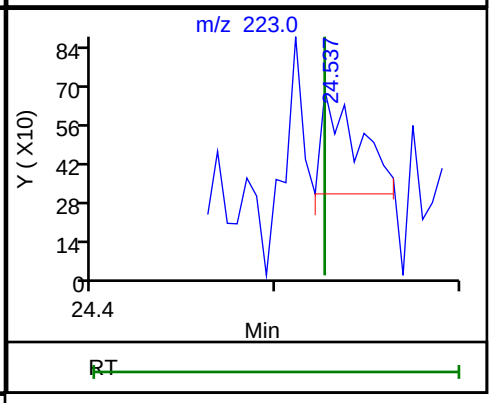
## 104 Hexachlorobutadiene, CAS: 87-68-3

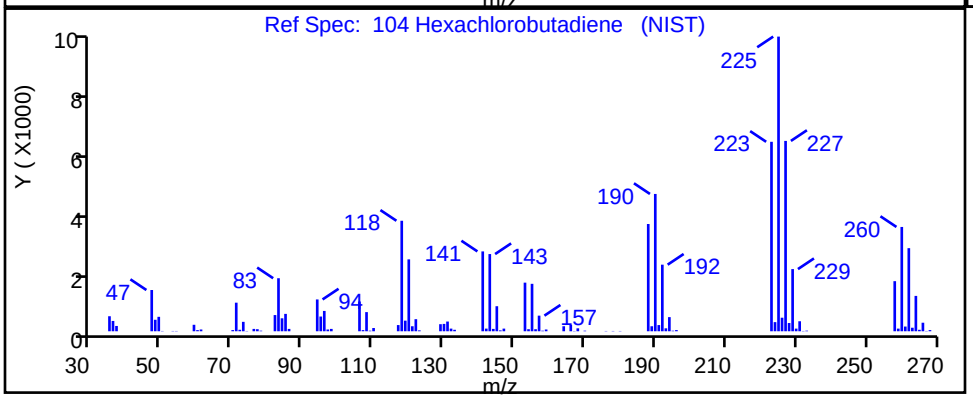
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.54 | 225.00 | 366 | 0.003113 |
| 24.54 | 223.00 | 519 | |

Reviewer: guazzonig, 06-Dec-2018 12:01:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

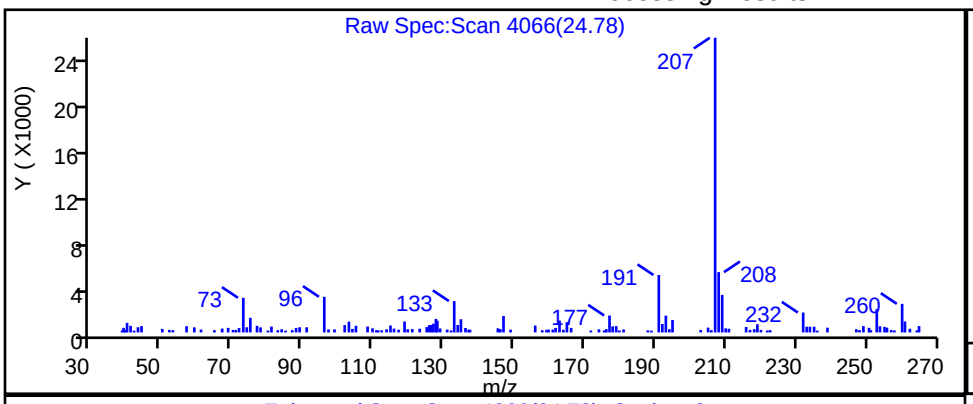
User Disabled Compound Report

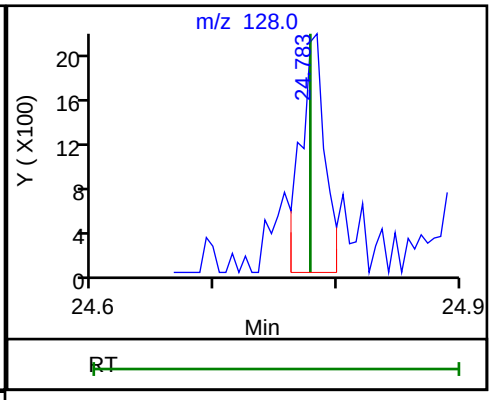
TestAmerica Burlington

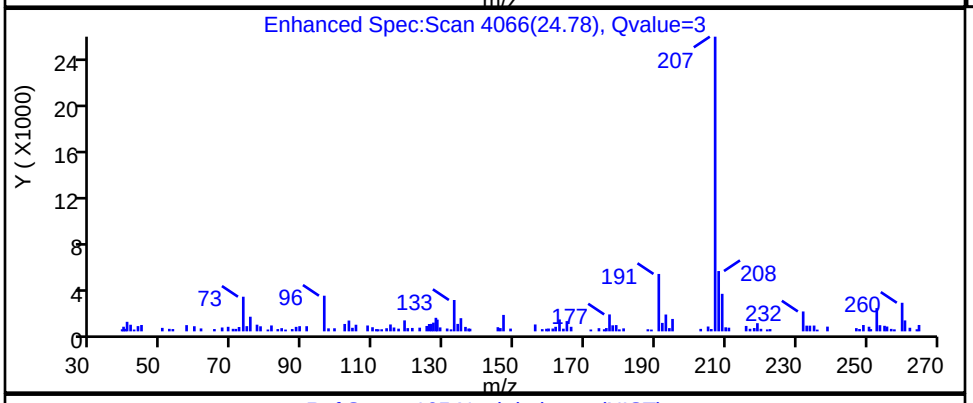
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D | | | | |
| Injection Date: | 06-Dec-2018 05:11:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-3 | Lab Sample ID: | 200-46353-3 | | |
| Client ID: | IA-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 19 | Worklist Smp#: | 19 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

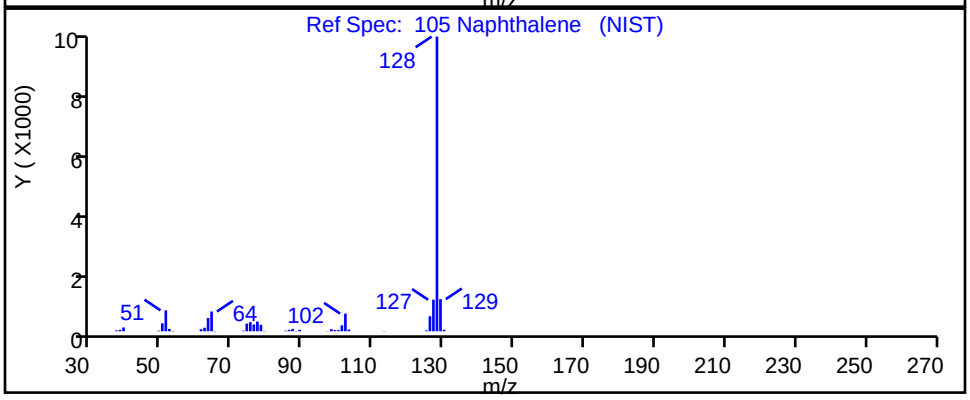
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.78 | 128.00 | 3049 | 0.013308 |

Reviewer: bunmaa, 07-Dec-2018 09:00:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120  Lab Sample ID: 200-46353-4

Matrix: Air  Lab File ID: 200-33531-020.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.51 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.66 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.4 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 9.2 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.47 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.8 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.35 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.053 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.22 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.32 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120 | Lab Sample ID: 200-46353-4

Matrix: Air | Lab File ID: 200-33531-020.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.90 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.68 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.27 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120  Lab Sample ID: 200-46353-4

Matrix: Air  Lab File ID: 200-33531-020.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120 | Lab Sample ID: 200-46353-4

Matrix: Air | Lab File ID: 200-33531-020.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.4 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.7 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 22 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.7 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 5.2 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.2 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.34 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 1.0 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.0 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120 | Lab Sample ID: 200-46353-4

Matrix: Air | Lab File ID: 200-33531-020.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.4 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.86 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 3.0 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 1.2 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120  Lab Sample ID: 200-46353-4

Matrix: Air  Lab File ID: 200-33531-020.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D
Lims ID: 200-46353-A-4
Client ID: IA-3_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 06:01:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-020
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:06:52 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: guazzonig Date: 06-Dec-2018 11:54:55

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.153 | -0.011 | 99 | 117057 | 0.5063 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.179 | -0.005 | 96 | 38817 | 0.3944 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | ND | MU |
| 5 Chloromethane | 50 | 3.454 | 3.463 | -0.011 | 97 | 29828 | 0.6631 | |
| 6 Butane | 43 | 3.604 | 3.598 | 0.000 | 99 | 144740 | 2.39 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | U |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | 4.380 | 4.377 | 0.000 | 19 | 2095 | 0.1005 | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.754 | 4.754 | -0.006 | 97 | 40642 | 0.2225 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599 | 5.599 | -0.006 | 63 | 8198 | 0.0637 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.851 | 5.853 | -0.005 | 99 | 442293 | 9.17 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.011 | -0.006 | 64 | 2702 | 0.0185 | |
| 24 Isopropyl alcohol | 45 | 6.107 | 6.093 | 0.010 | 100 | 94156 | 1.77 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | Ua |
| 27 Methylene Chloride | 49 | 6.551 | 6.552 | -0.006 | 87 | 15801 | 0.3091 | |
| 28 2-Methyl-2-propanol | 59 | 6.803 | 6.767 | 0.032 | 81 | 9653 | 0.1184 | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | 7.284 | 7.275 | 0.005 | 90 | 25710 | 0.4699 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.798 | 8.788 | 0.005 | 100 | 30791 | 1.78 | |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.152 | -0.006 | 74 | 619684 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.242 | 9.210 | 0.032 | 71 | 3404 | 0.1010 | |
| 42 Chloroform | 83 | 9.269 | 9.269 | 0.000 | 47 | 5299 | 0.0409 | M |
| 43 Cyclohexane | 84 | 9.521 | 9.515 | -0.010 | 96 | 23607 | 0.3482 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | U |
| 45 Carbon tetrachloride | 117 | 9.761 | 9.778 | -0.022 | 73 | 9357 | 0.0534 | |
| 46 Isooctane | 57 | 10.189 | 10.190 | -0.006 | 95 | 48601 | 0.2167 | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | 10.211 | 10.216 | -0.005 | 95 | 49804 | 0.3166 | |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | MU |
| | 49 n-Heptane | 43 | 10.553 | 10.553 | -0.022 | 87 | 16210 | 0.2003 | |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2953990 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.484 | | | | ND | U |
| | 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| | 56 1,4-Dioxane | 88 | 12.318 | 12.318 | 0.032 | 71 | 2821 | 0.0976 | M |
| | 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | |
| | 65 Toluene | 92 | 14.052 | 14.068 | -0.016 | 97 | 95699 | 0.9004 | |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| | 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 15.138 | 15.143 | -0.005 | 94 | 14699 | 0.1155 | M |
| | 69 2-Hexanone | 43 | | 15.507 | | | | ND | MU |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 16.951 | 16.957 | -0.006 | 85 | 2623869 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | 17.176 | 17.187 | -0.006 | 97 | 47492 | 0.1984 | |
| | 78 m-Xylene & p-Xylene | 106 | 17.427 | 17.438 | -0.006 | 0 | 66042 | 0.6807 | |
| | 79 o-Xylene | 106 | 18.278 | 18.294 | -0.016 | 98 | 25188 | 0.2732 | M |
| | 80 Styrene | 104 | 18.332 | 18.342 | -0.005 | 48 | 5128 | 0.0363 | M |
| | 81 Bromoform | 173 | | 18.781 | | | | ND | |
| | 82 Isopropylbenzene | 105 | 19.043 | 19.043 | -0.006 | 21 | 4162 | 0.0154 | M |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | 19.846 | 19.846 | 0.000 | 97 | 11313 | 0.0352 | |
| | 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | |
| | 88 4-Ethyltoluene | 105 | 20.043 | 20.049 | -0.011 | 85 | 12204 | 0.0447 | |
| | 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.167 | 0.000 | 88 | 10221 | 0.0437 | |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.804 | 0.000 | 97 | 31565 | 0.1368 | |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| | 95 4-Isopropyltoluene | 119 | | 21.269 | | | | ND | U |
| | 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | 21.408 | 21.408 | -0.010 | 57 | 7477 | 0.0418 | a |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| | 105 Naphthalene | 128 | 24.773 | 24.786 | -0.005 | 31 | 6438 | 0.0257 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15GIS_00015 | Amount Added: | 20.00 | Units: mL | Run Reagent |

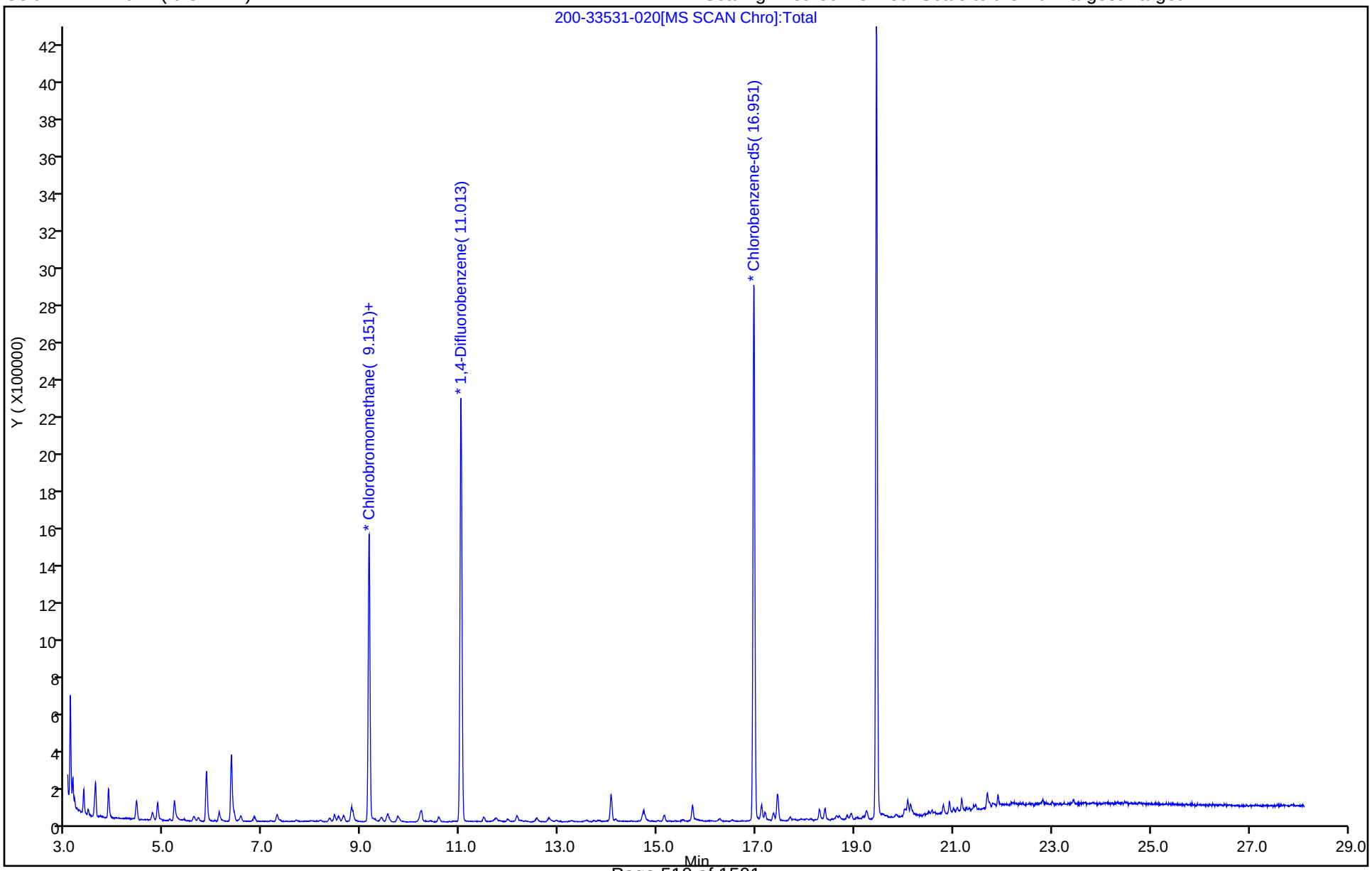
Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | Worklist Smp#: | 20 |
| Client ID: | IA-3_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 20 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



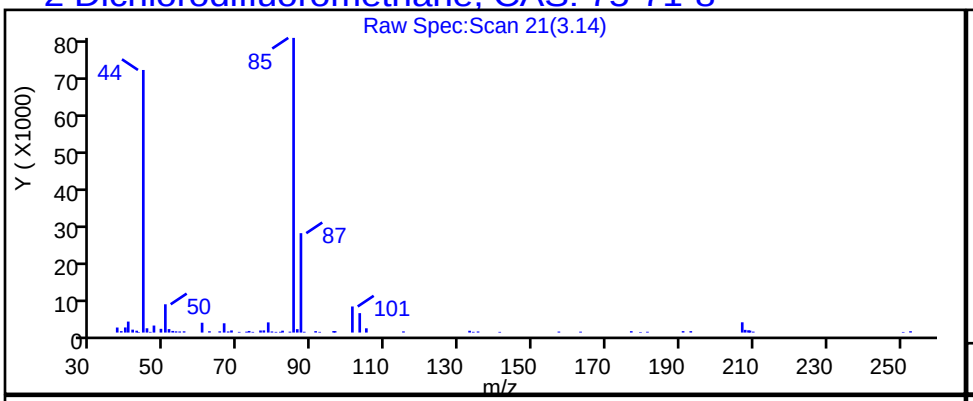
Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

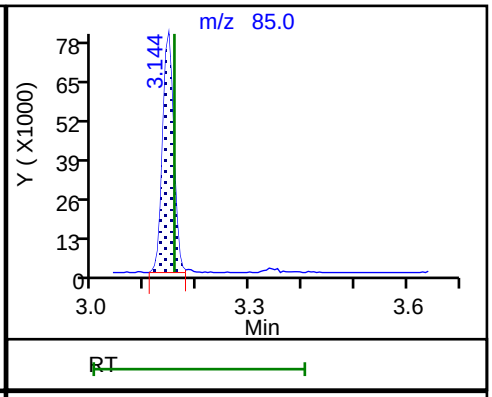
TestAmerica Burlington

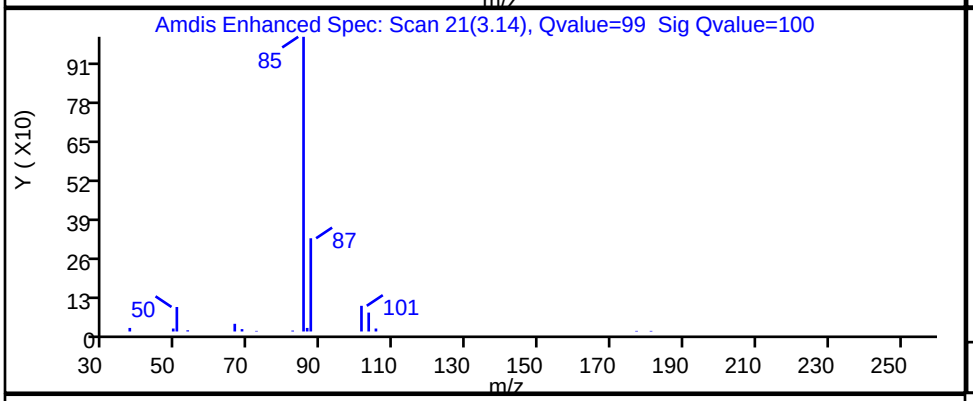
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

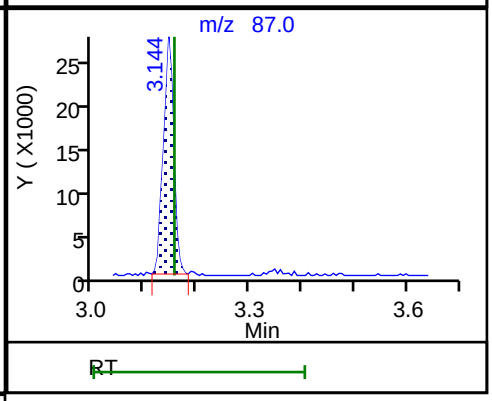
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

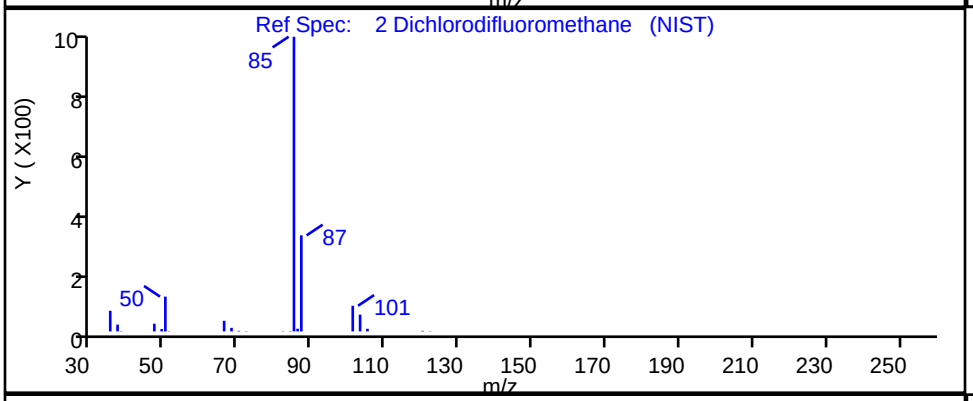
## 2 Dichlorodifluoromethane, CAS: 75-71-8

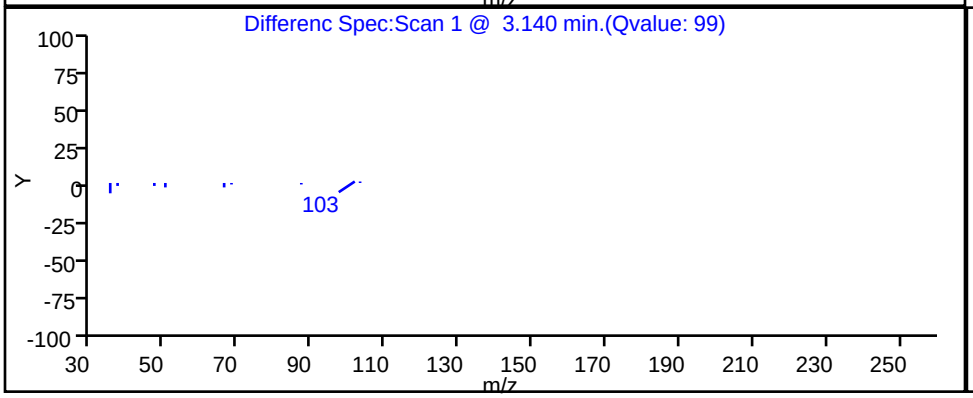


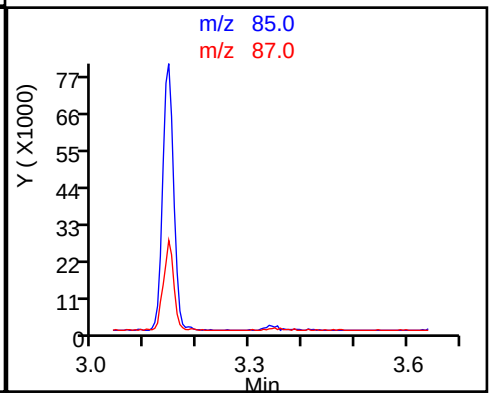



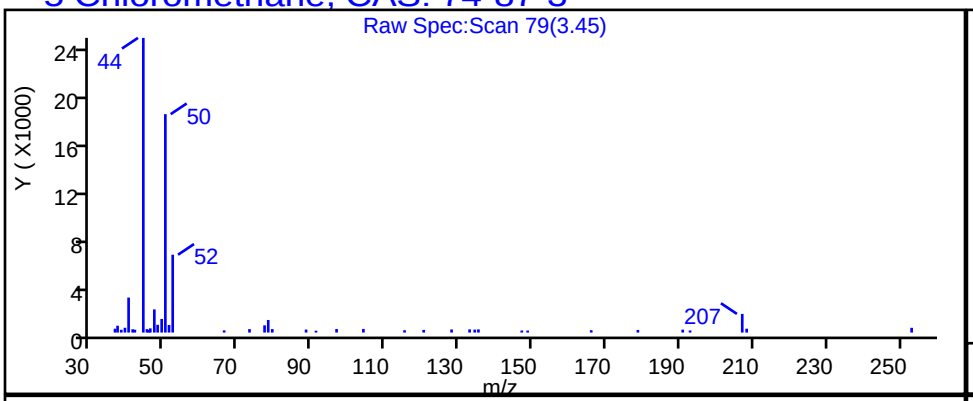
Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

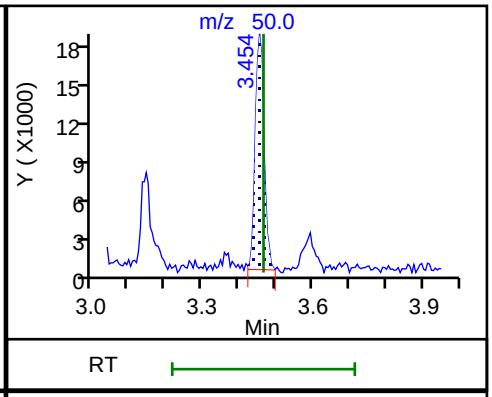
TestAmerica Burlington

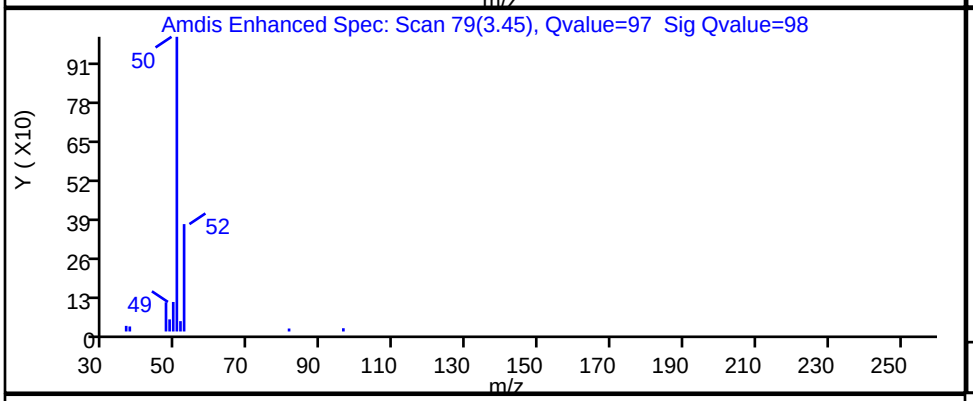
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

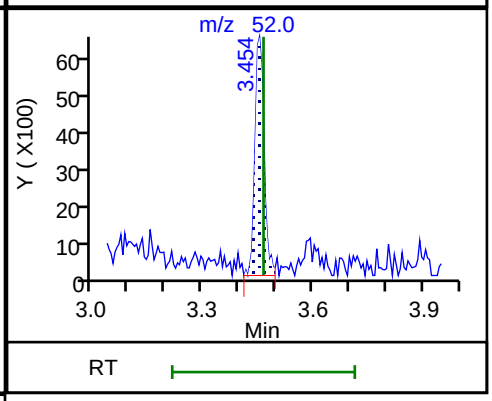
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

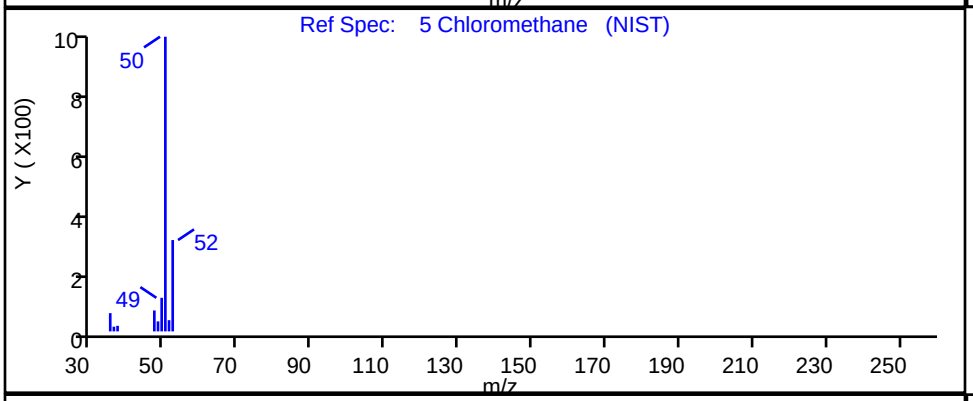
## 5 Chloromethane, CAS: 74-87-3

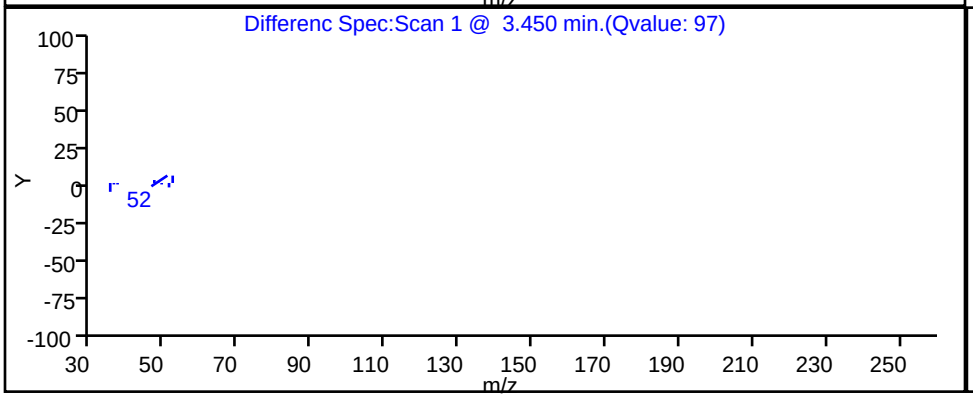


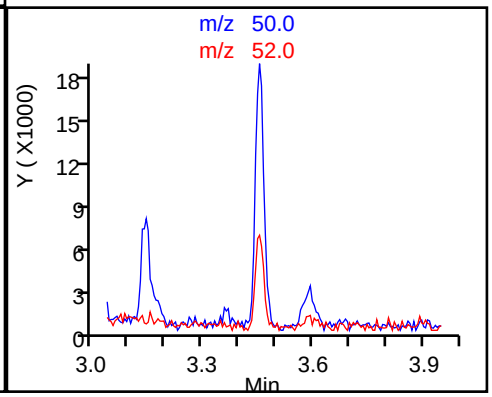



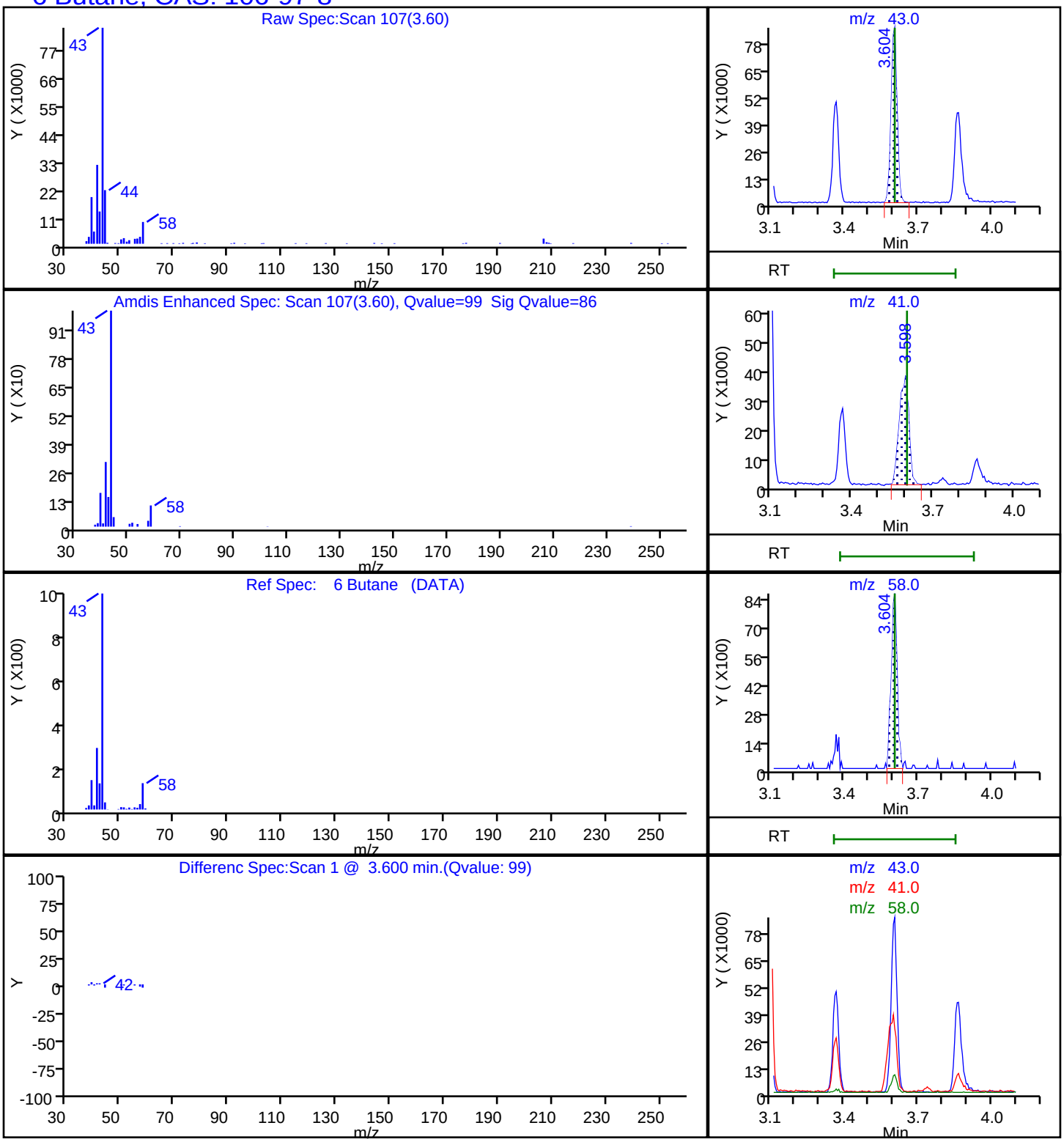
Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
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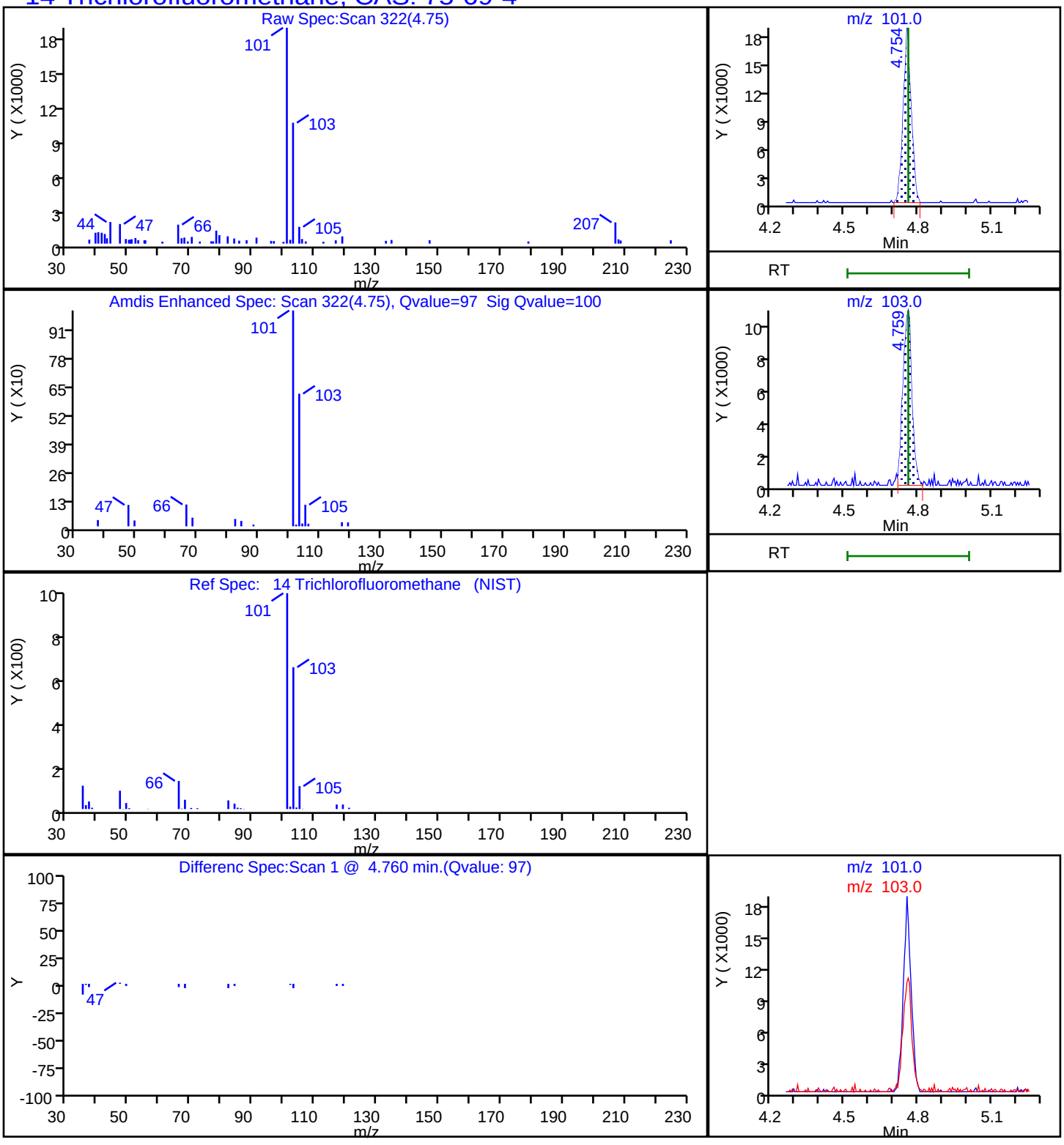
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4



Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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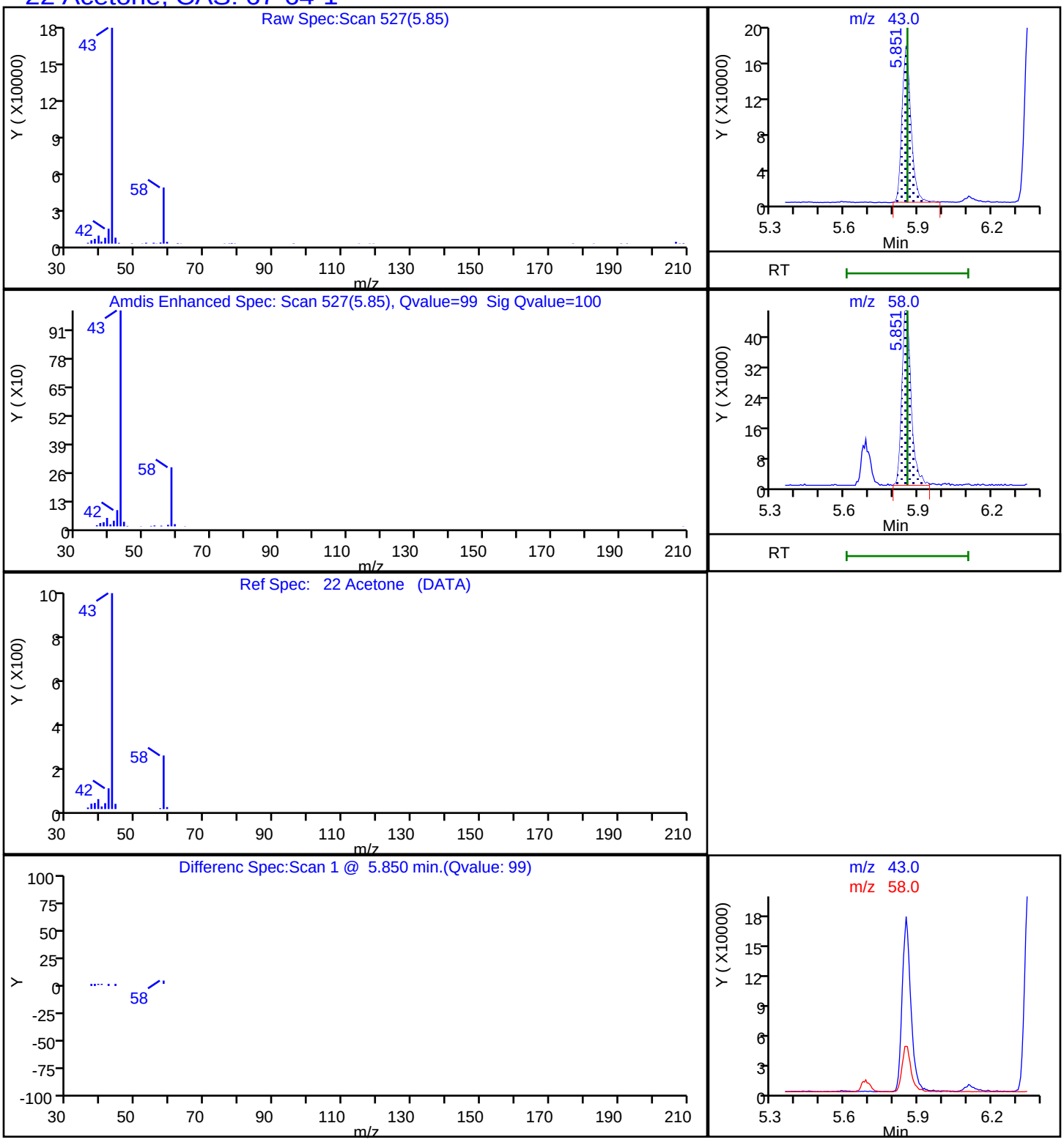
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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| | | | | | |
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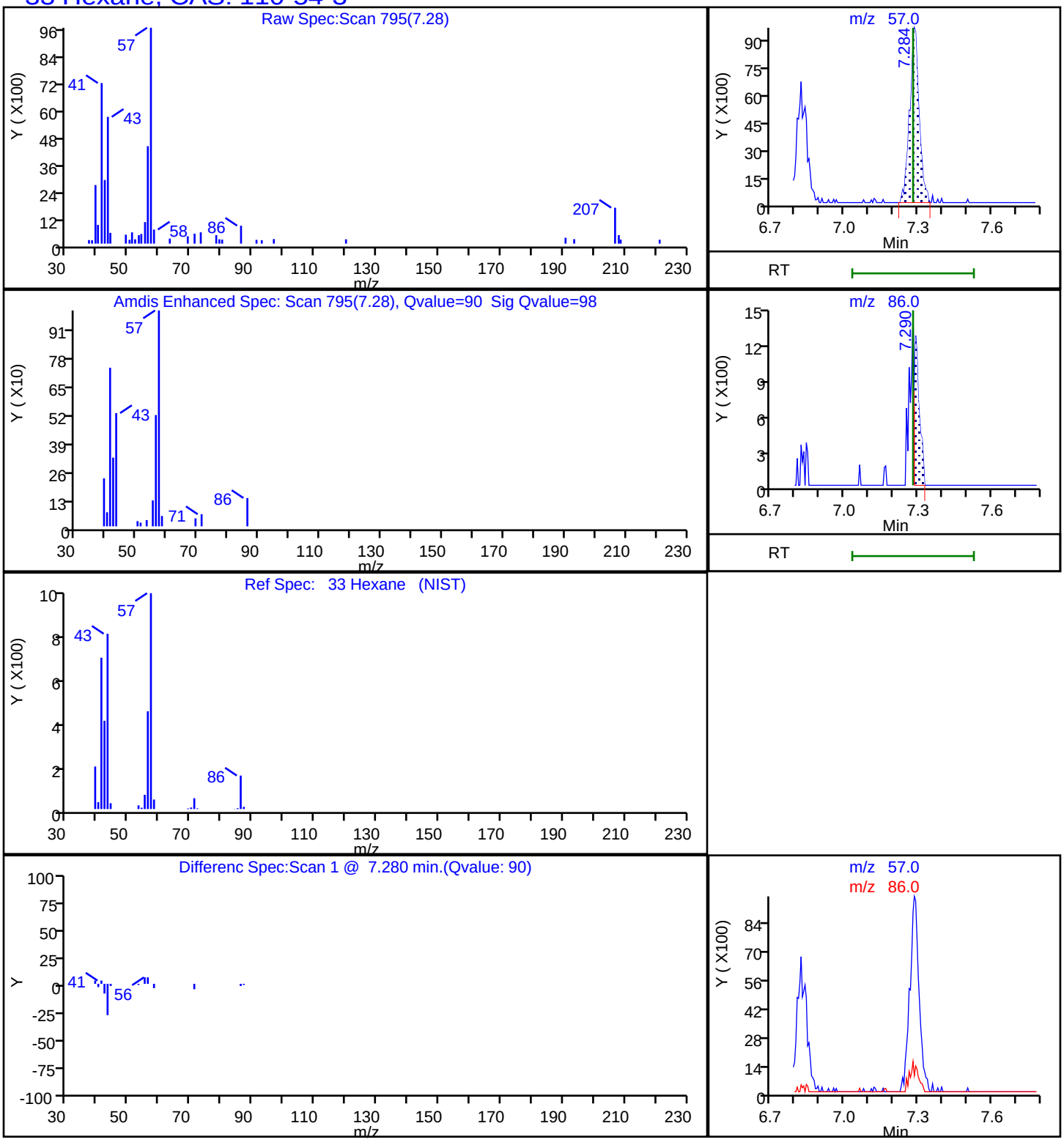
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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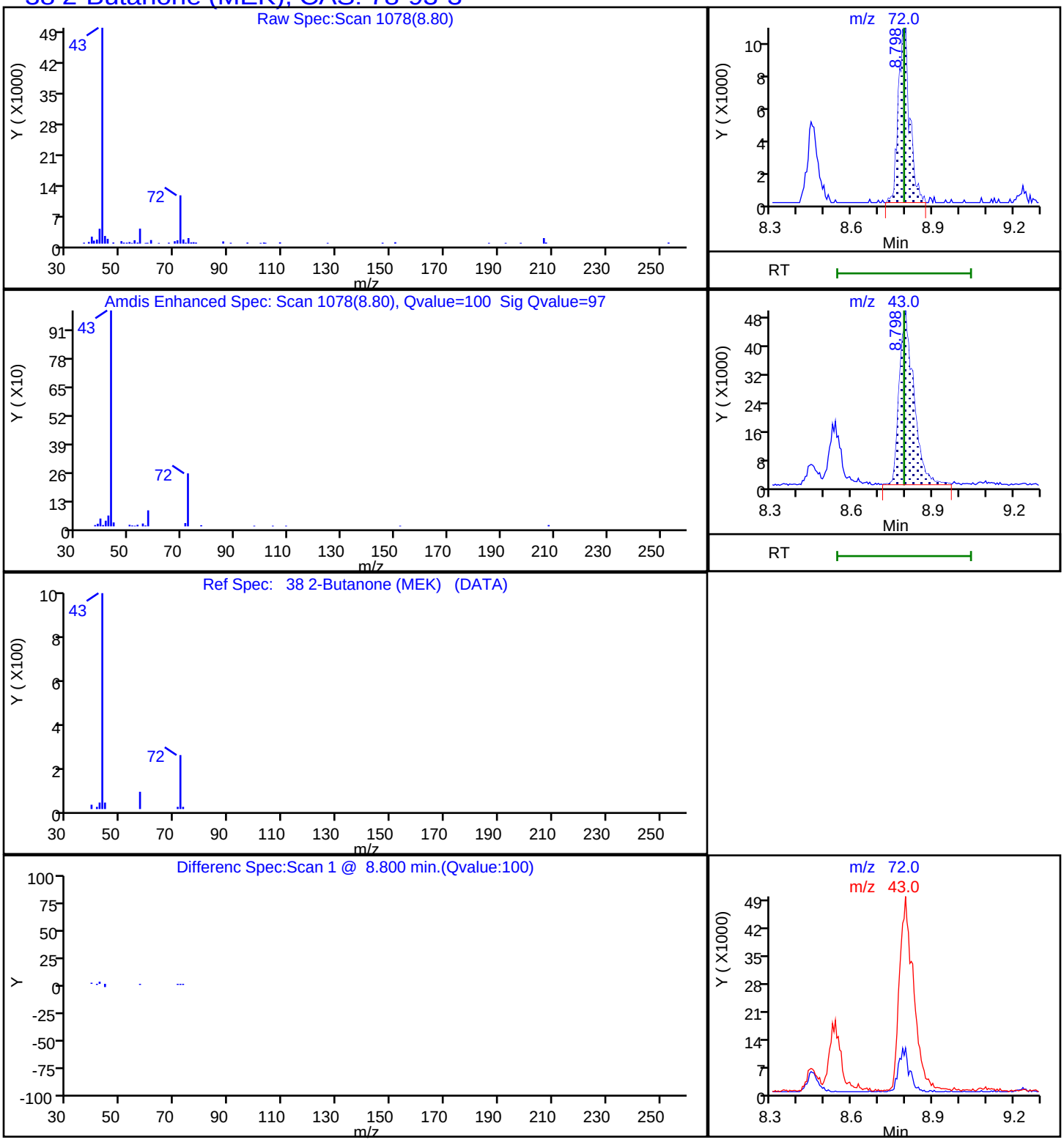
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 38 2-Butanone (MEK), CAS: 78-93-3



Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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| | | | | | |
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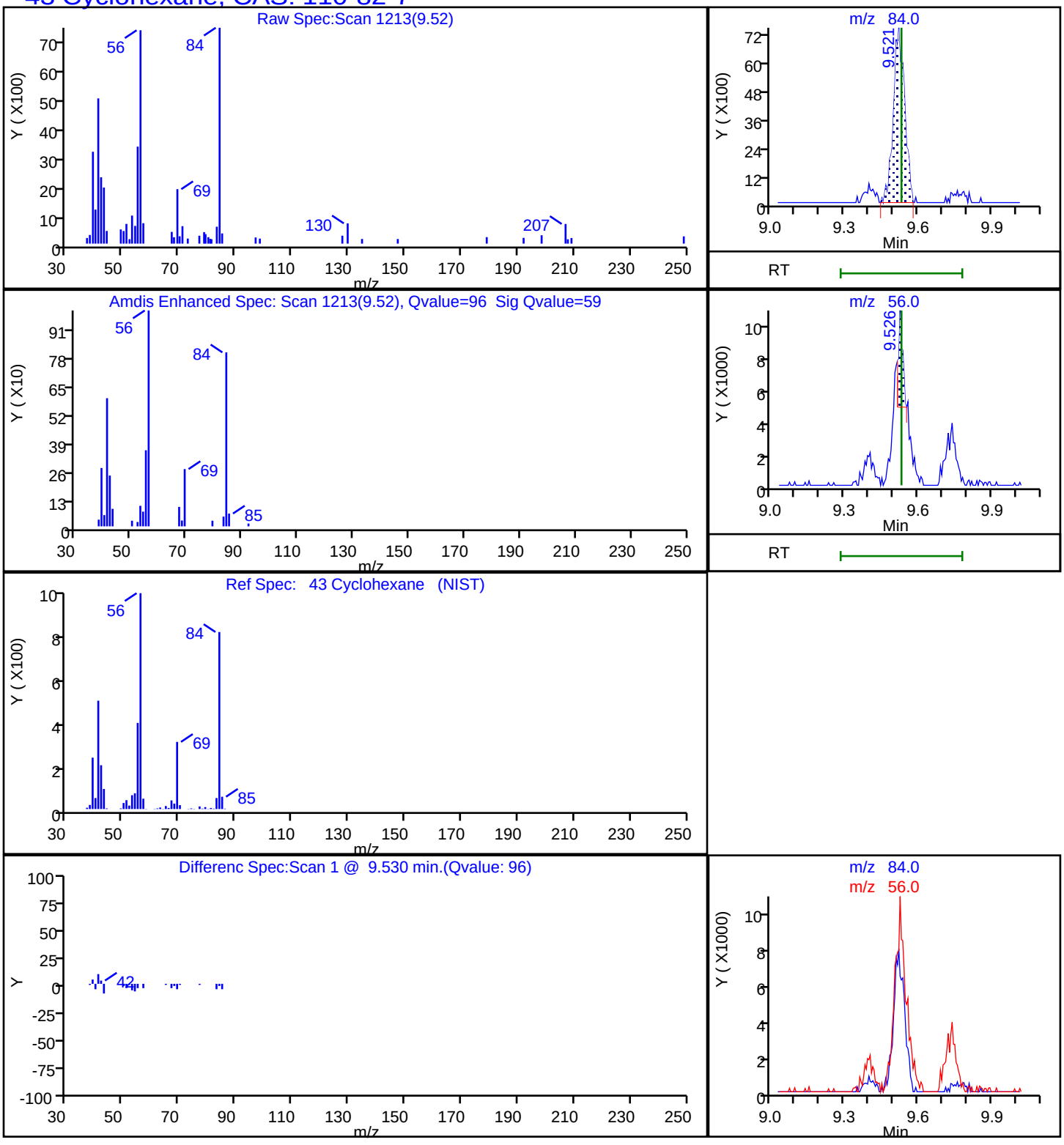
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7



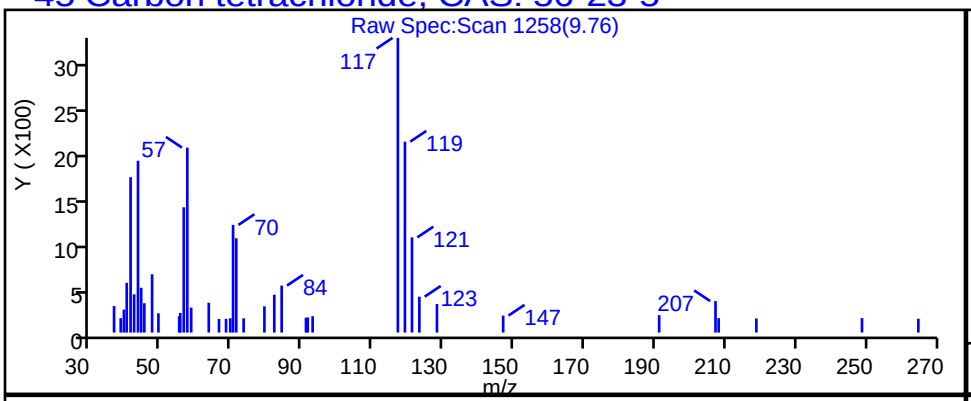
Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

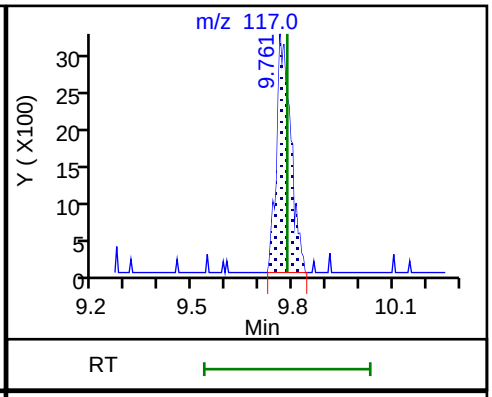
TestAmerica Burlington

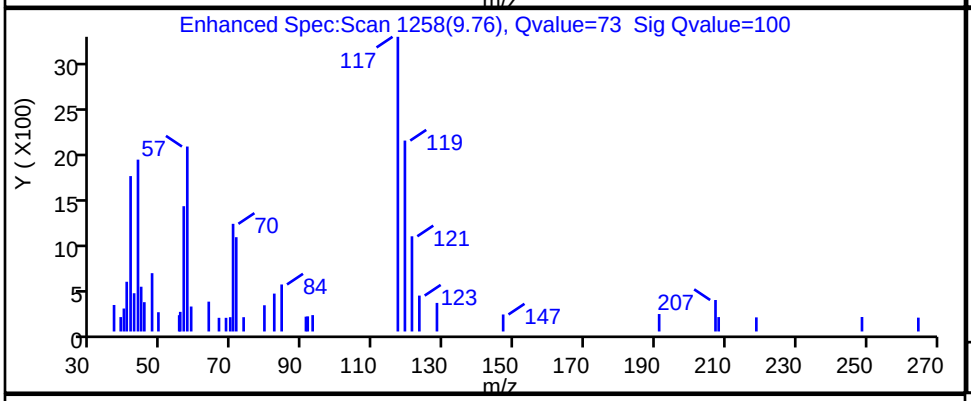
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

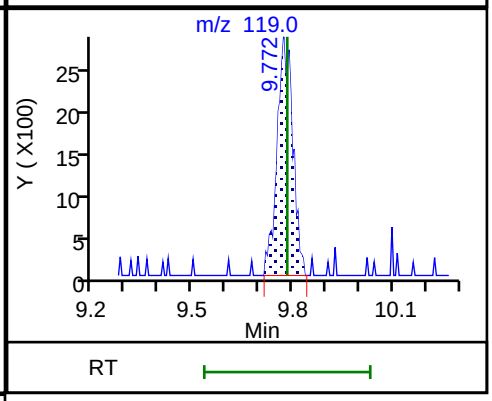
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

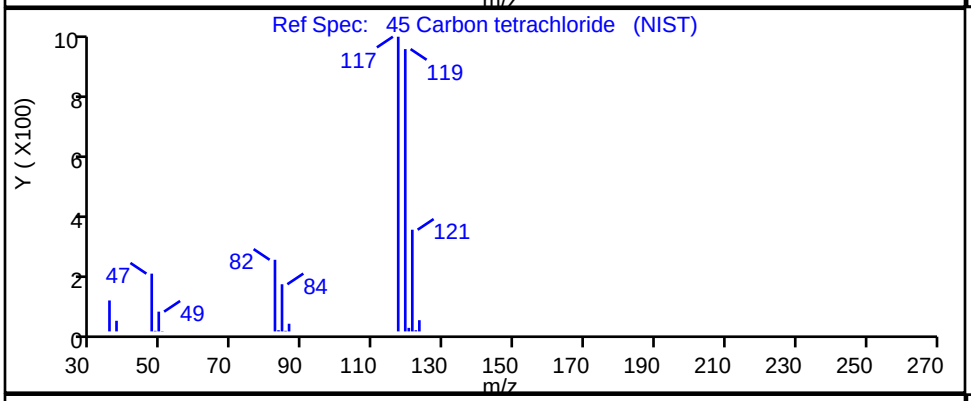
## 45 Carbon tetrachloride, CAS: 56-23-5

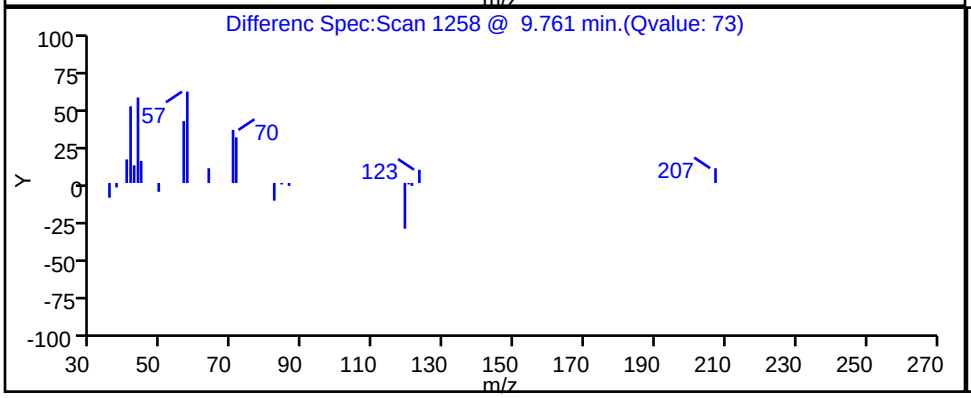


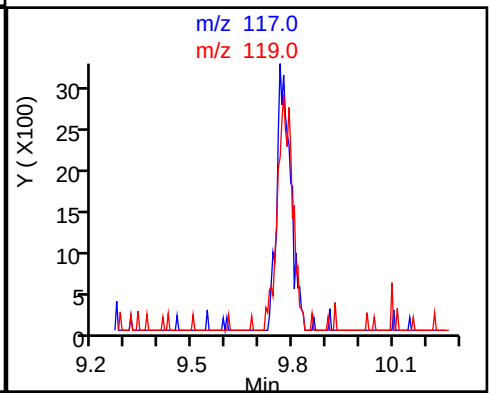



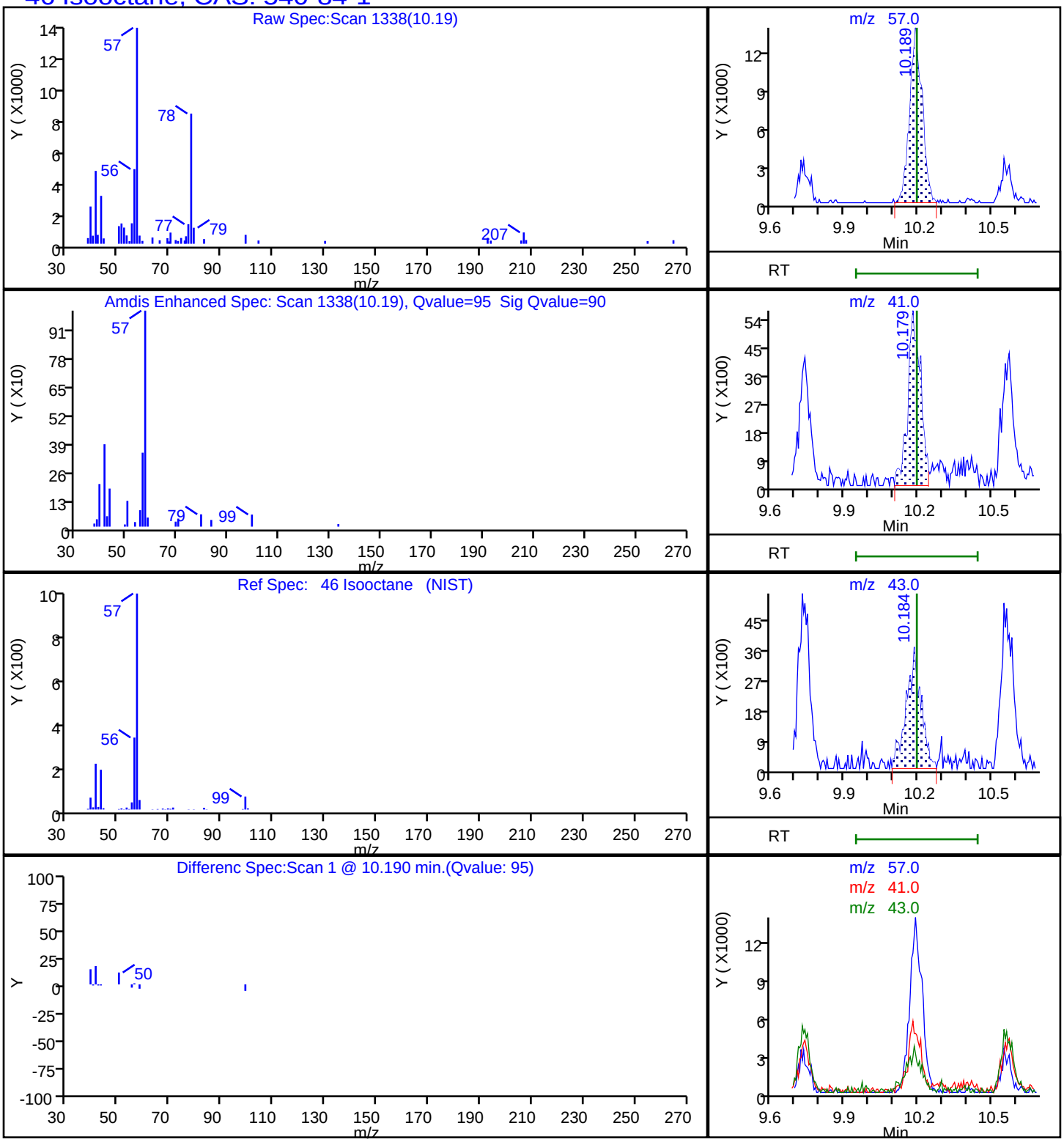
Report Date: 07-Dec-2018 09:06:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1



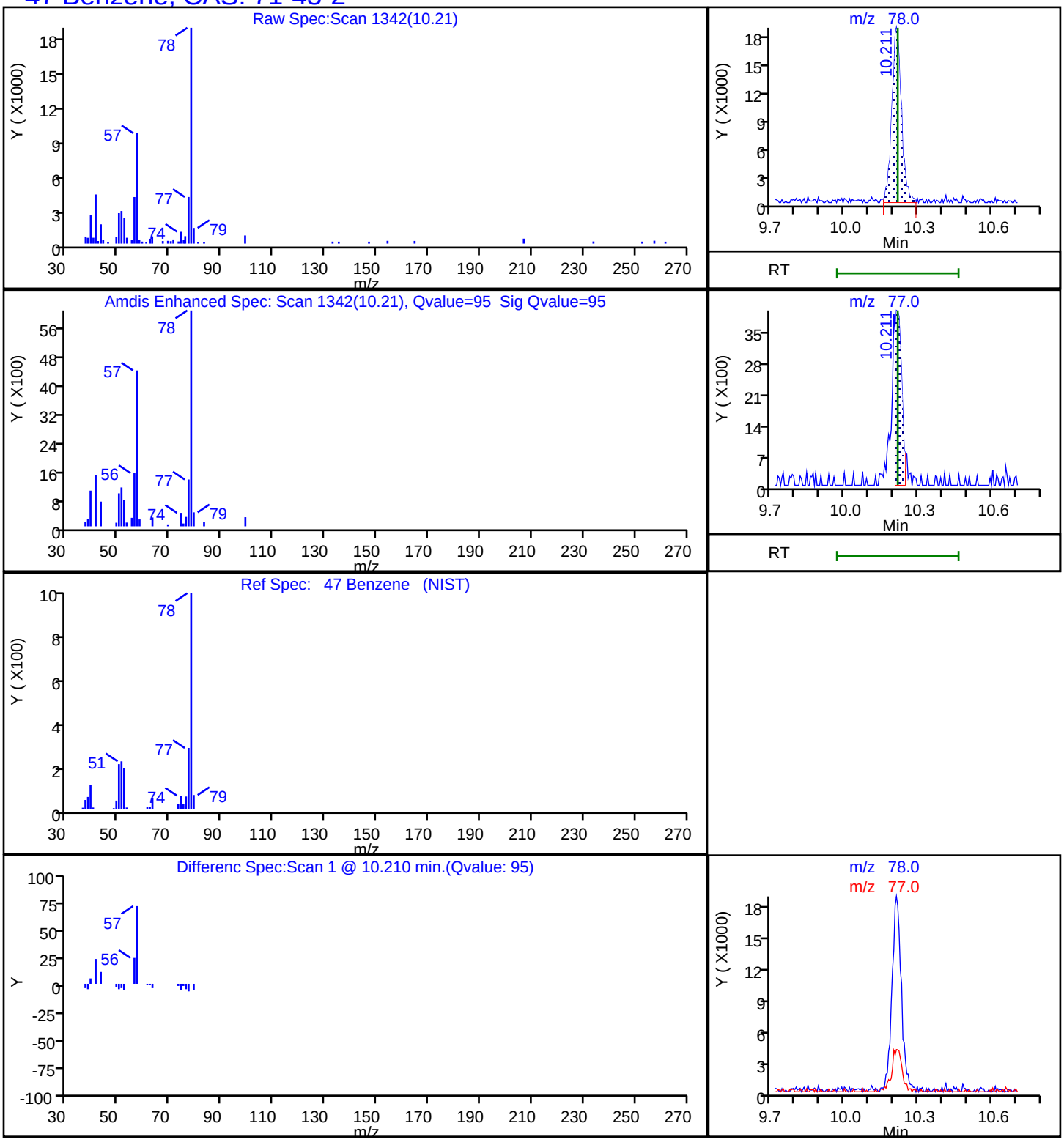
Report Date: 07-Dec-2018 09:06:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



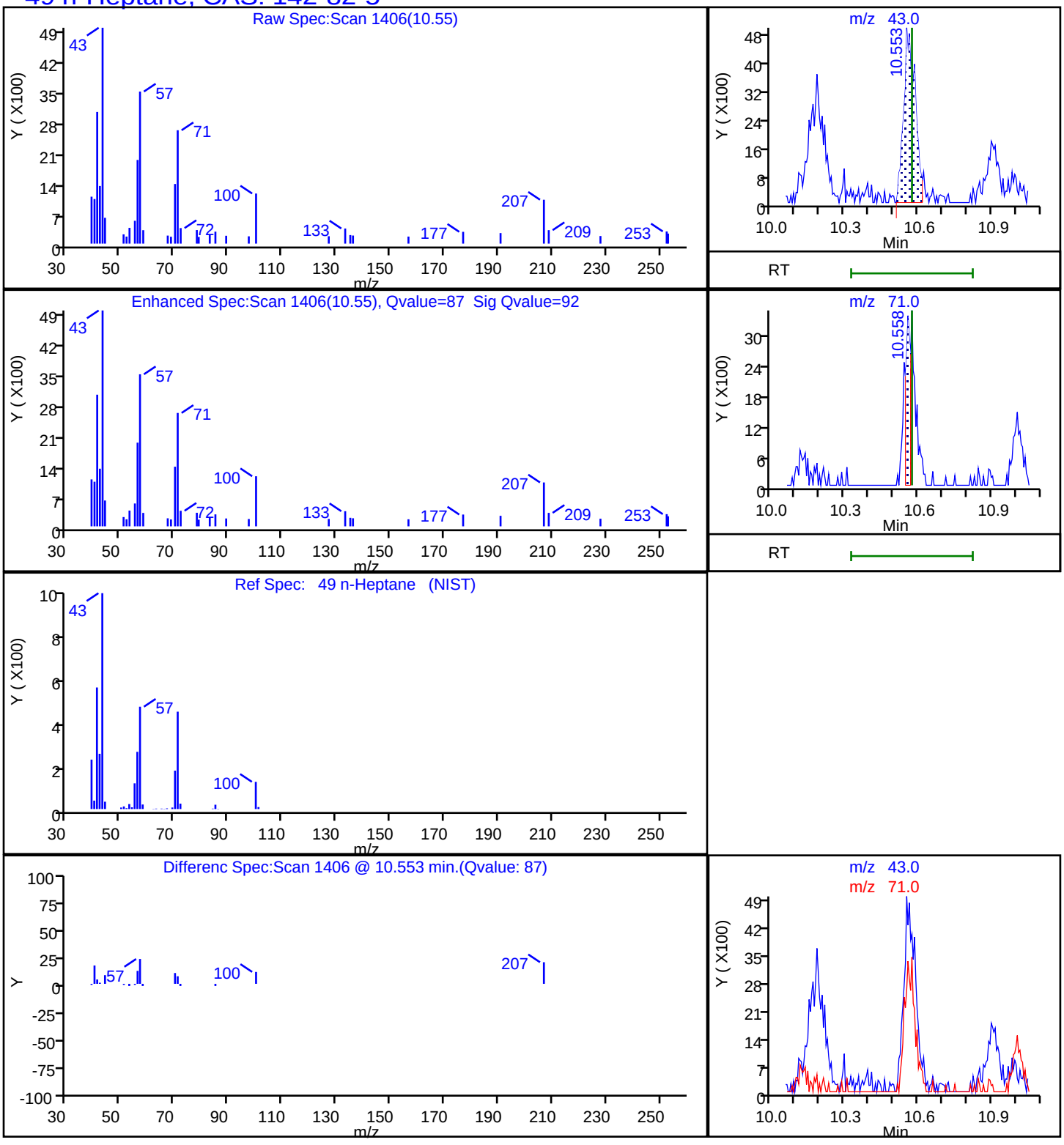
Report Date: 07-Dec-2018 09:06:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



Report Date: 07-Dec-2018 09:06:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
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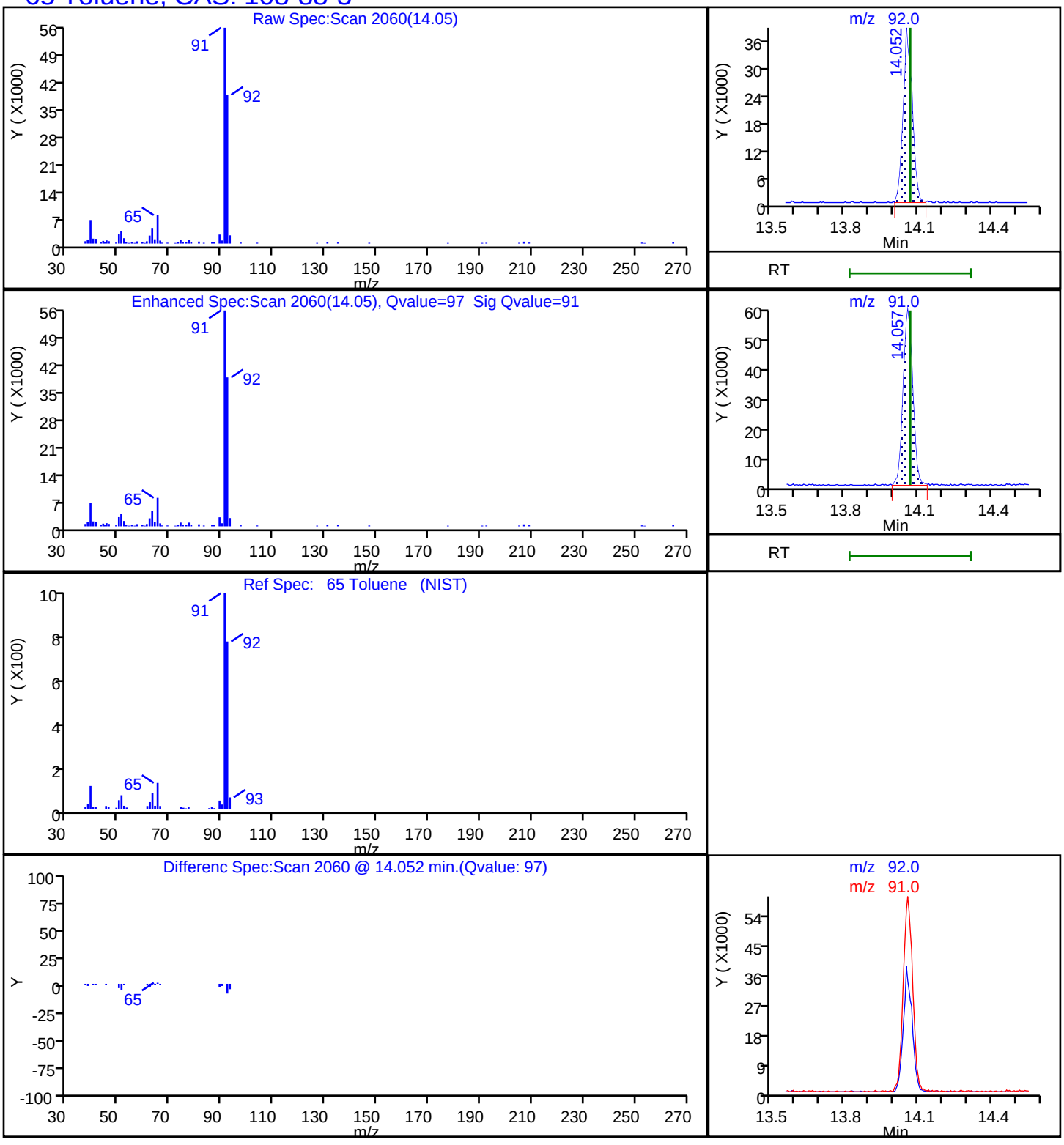
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



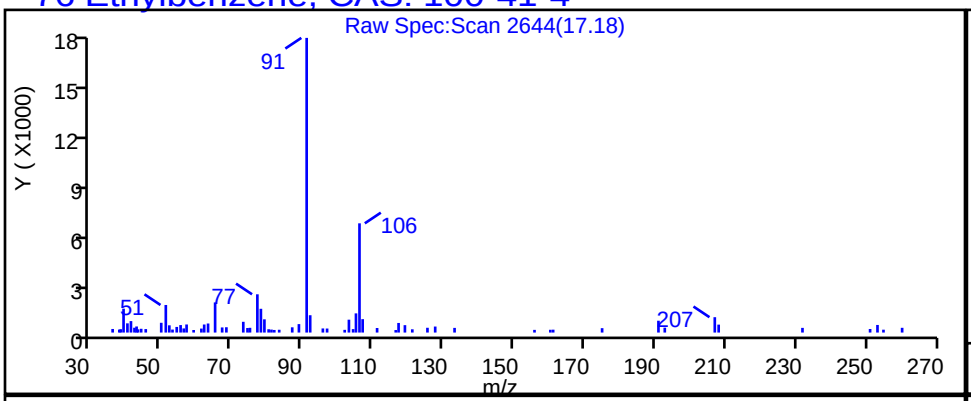
Report Date: 07-Dec-2018 09:06:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

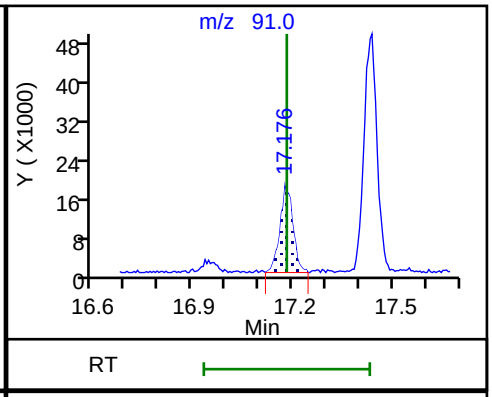
TestAmerica Burlington

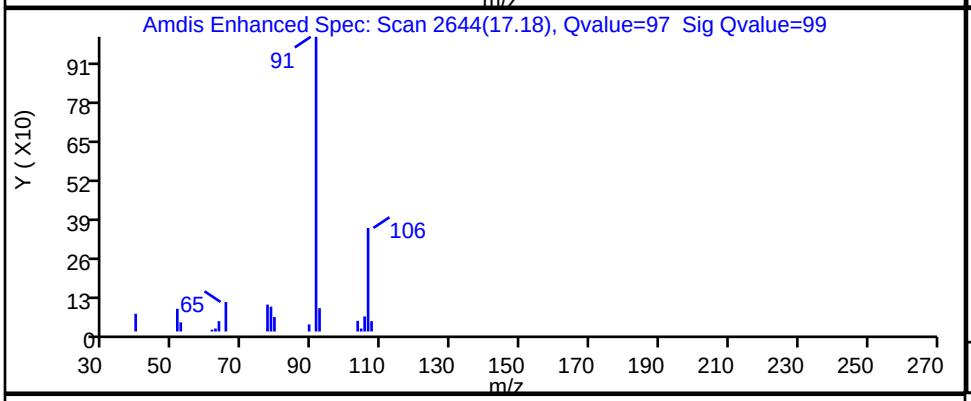
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

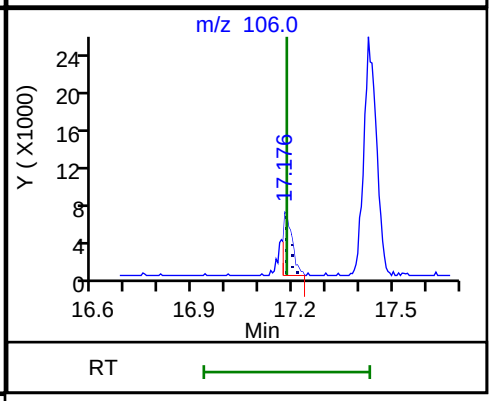
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

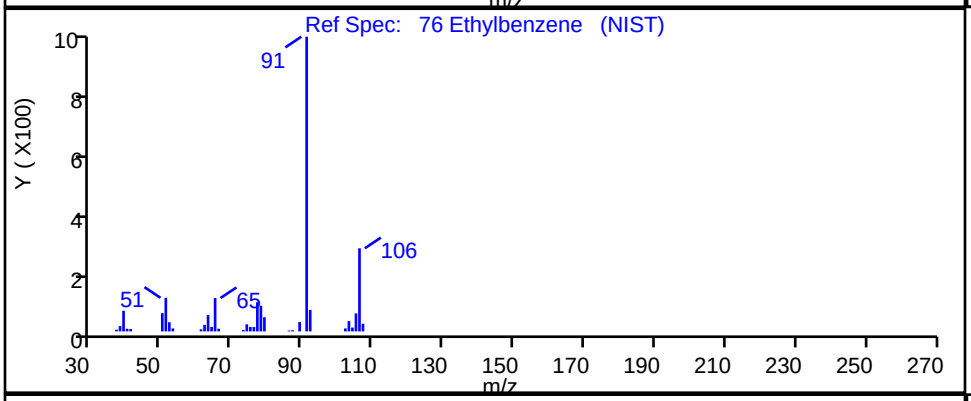
## 76 Ethylbenzene, CAS: 100-41-4

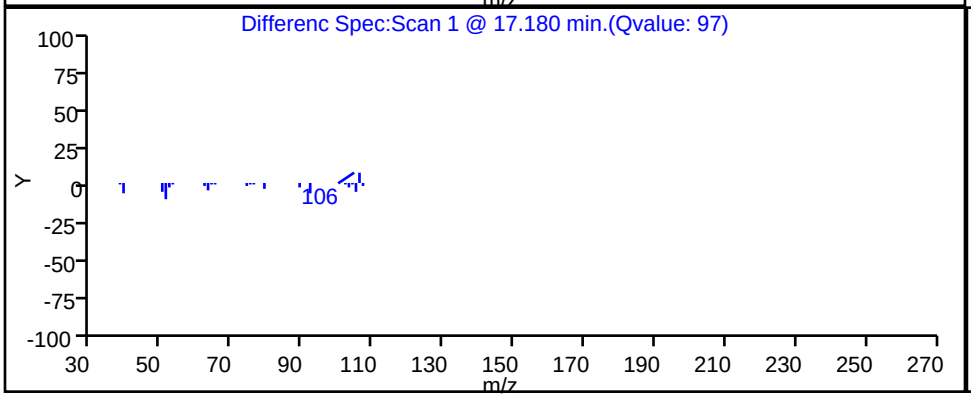


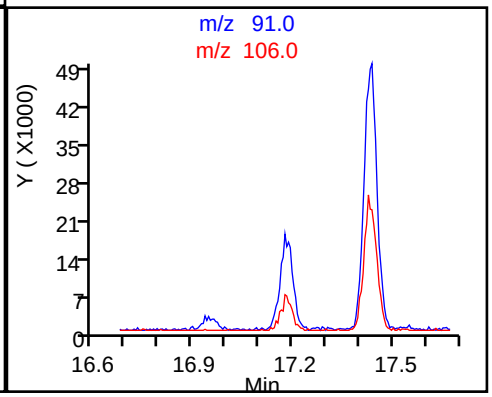



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TestAmerica Burlington

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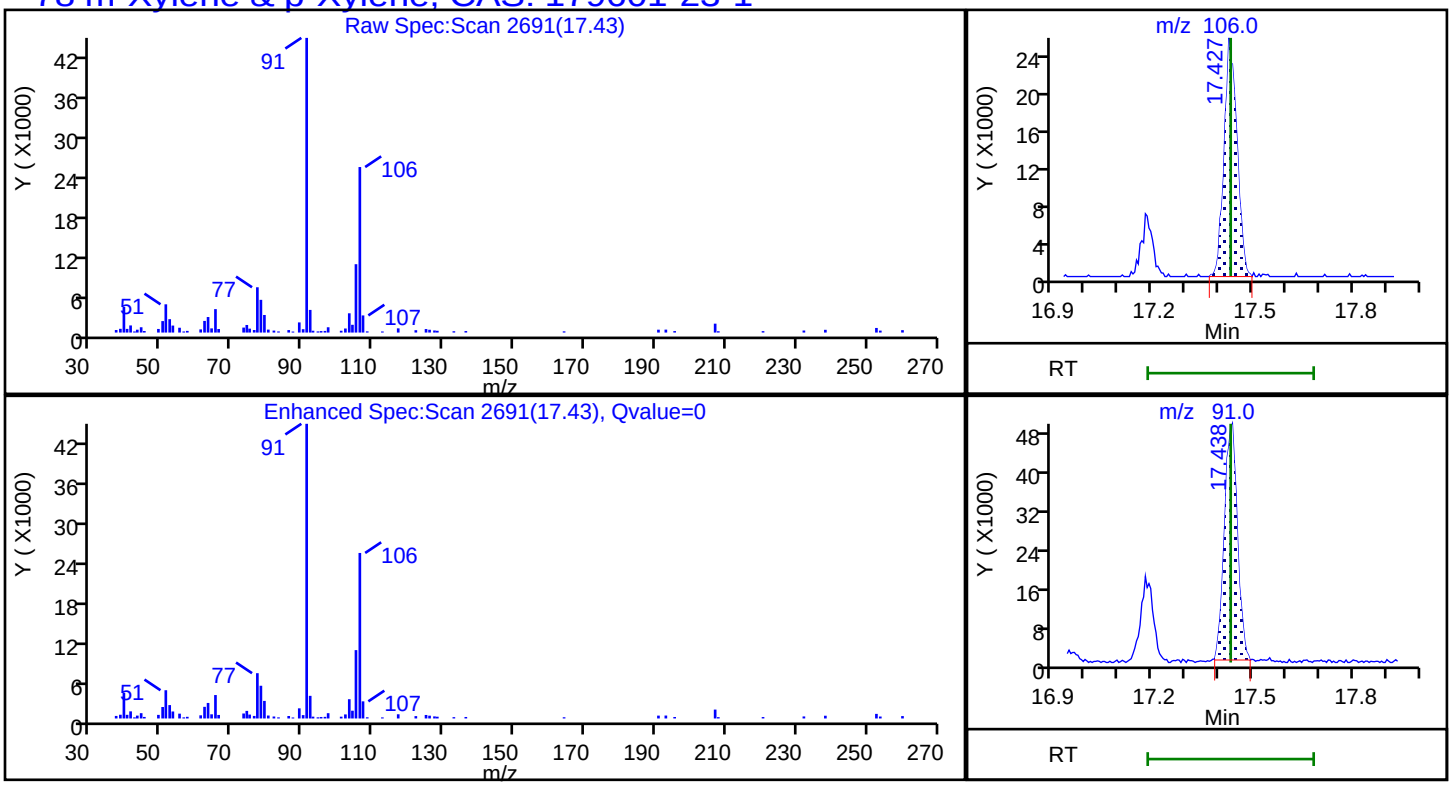
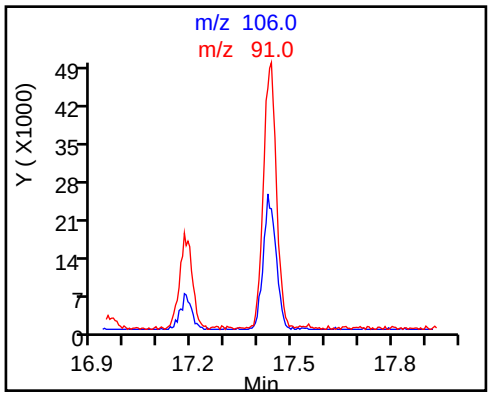
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



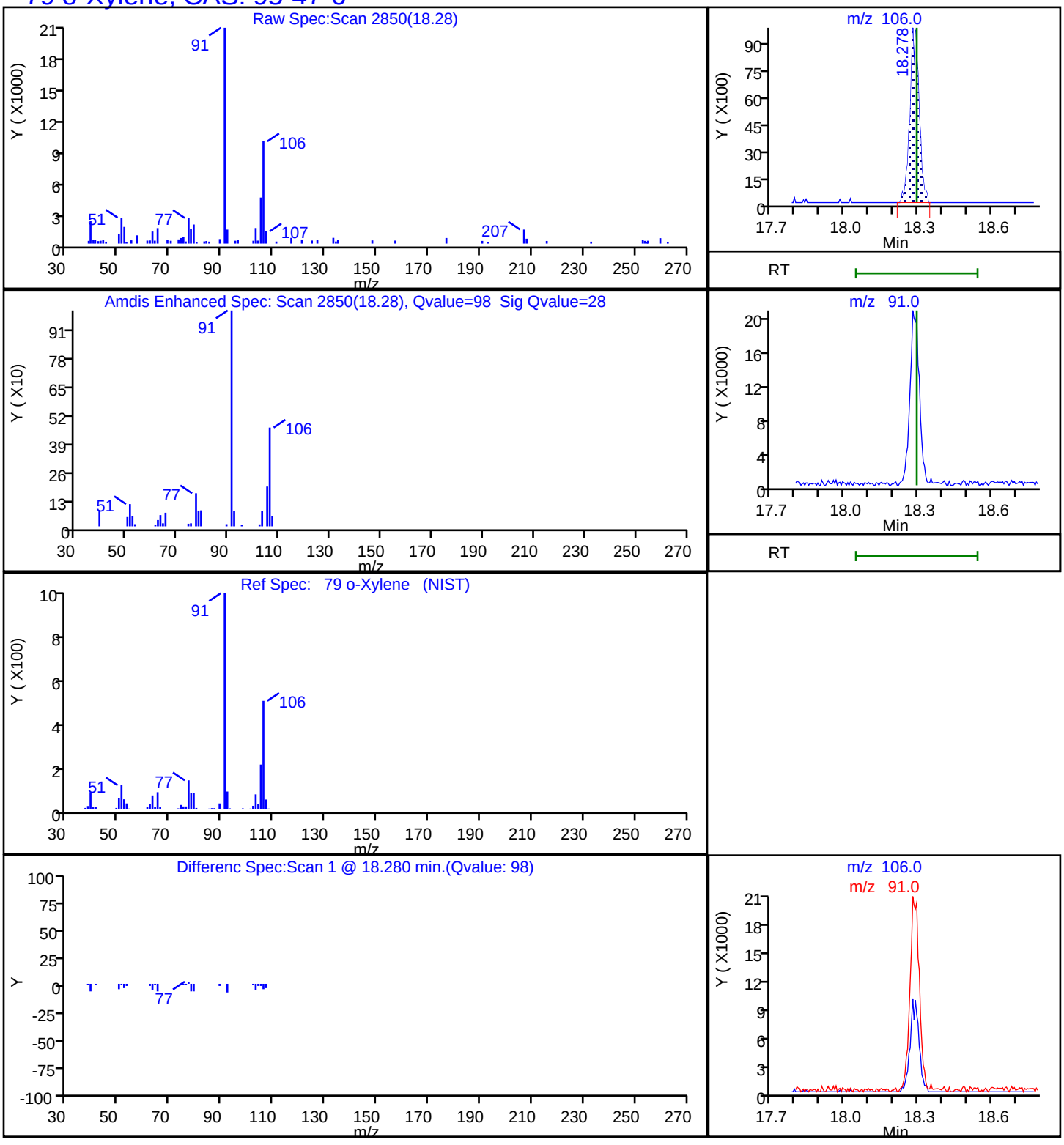
Report Date: 07-Dec-2018 09:06:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



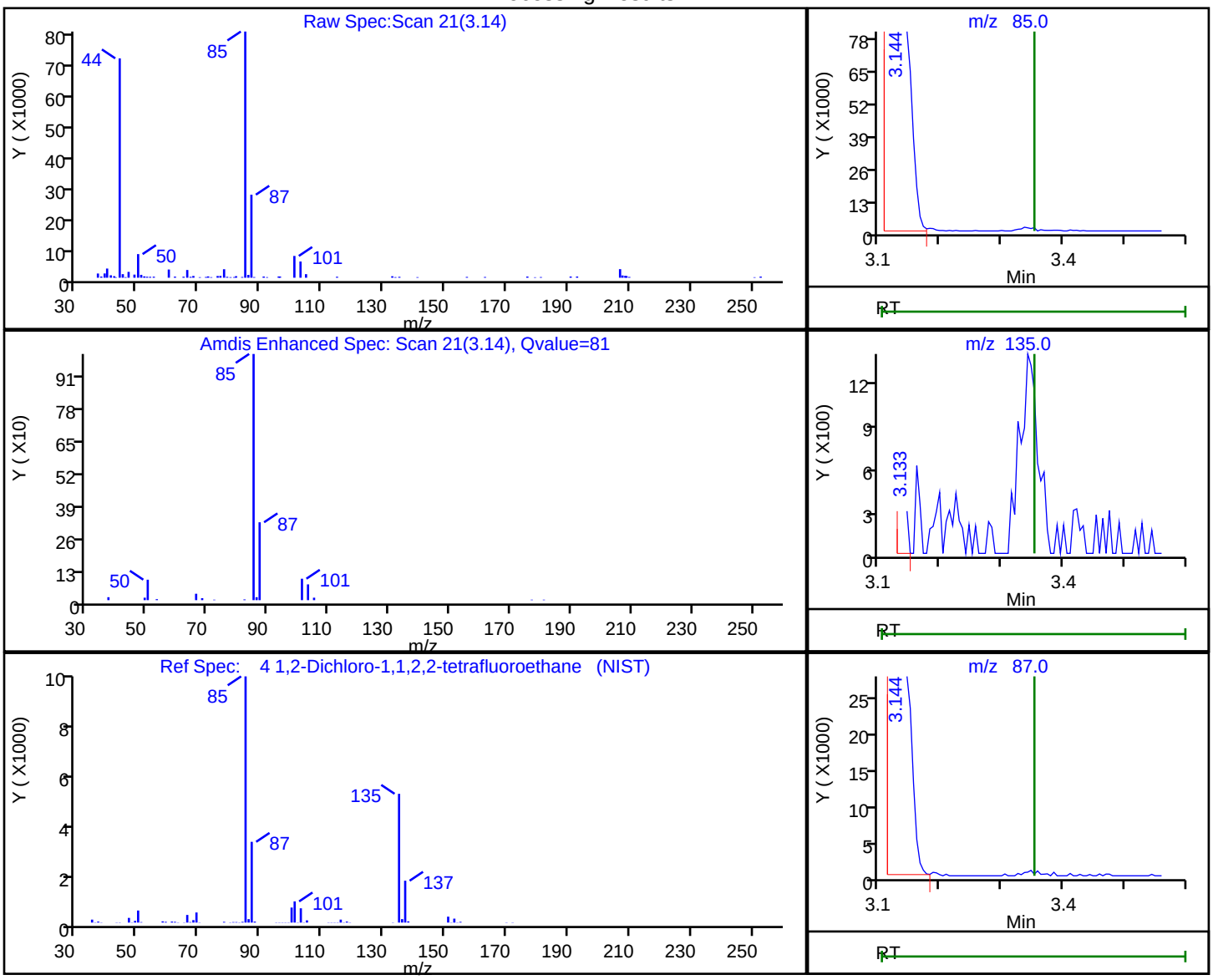
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.14 | 85.00 | 117057 | 0.672795 |
| 3.13 | 135.00 | 293 | |
| 3.14 | 87.00 | 36350 | |

Reviewer: bunmaa, 07-Dec-2018 09:01:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

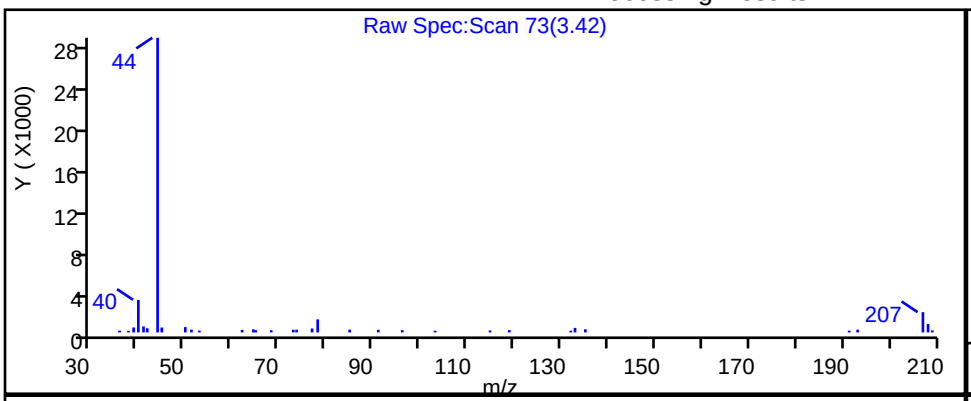
User Disabled Compound Report

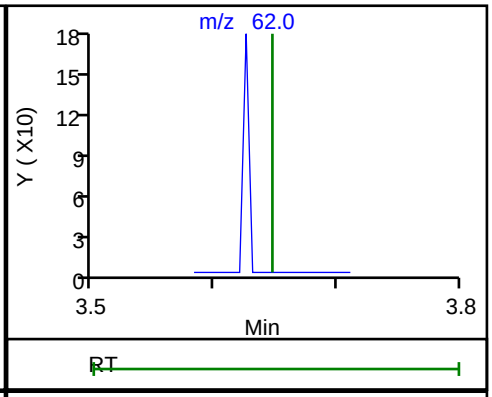
TestAmerica Burlington

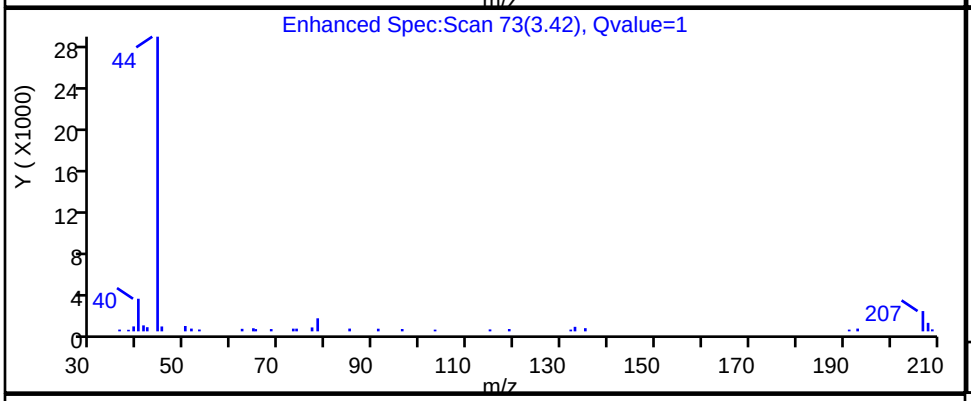
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

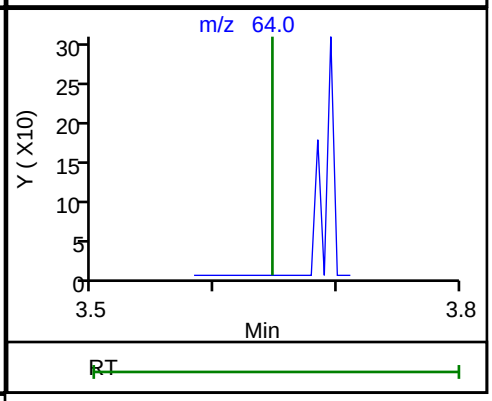
## 7 Vinyl chloride, CAS: 75-01-4

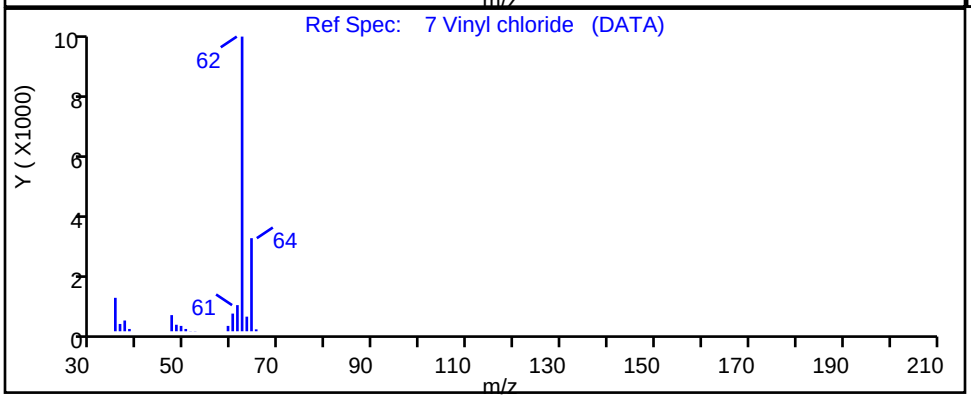
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.42 | 62.00 | 138 | 0.002549 |
| 3.65 | 64.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:53:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

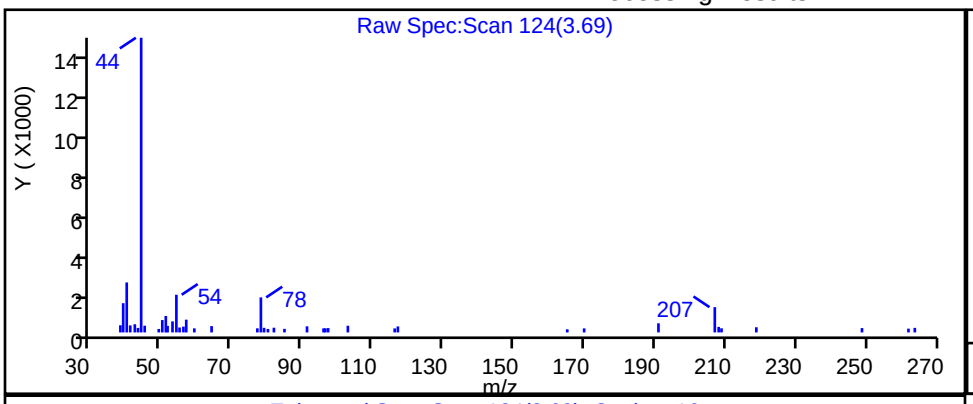
User Disabled Compound Report

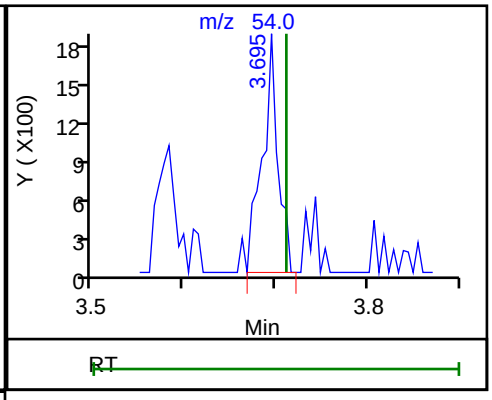
TestAmerica Burlington

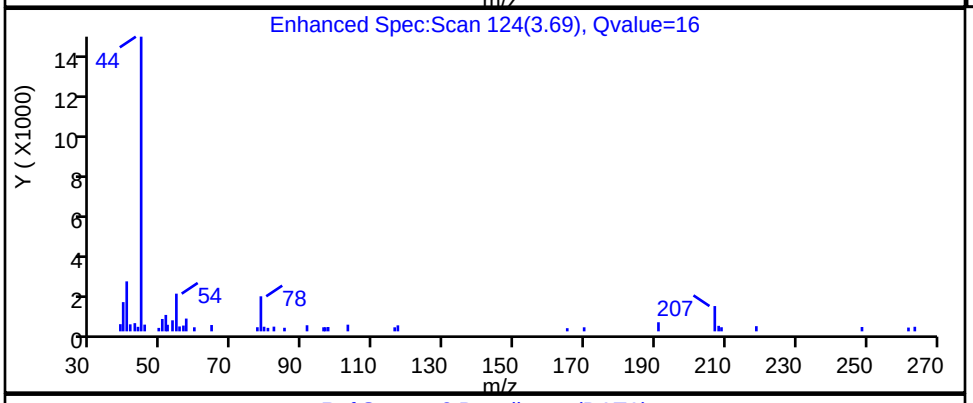
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

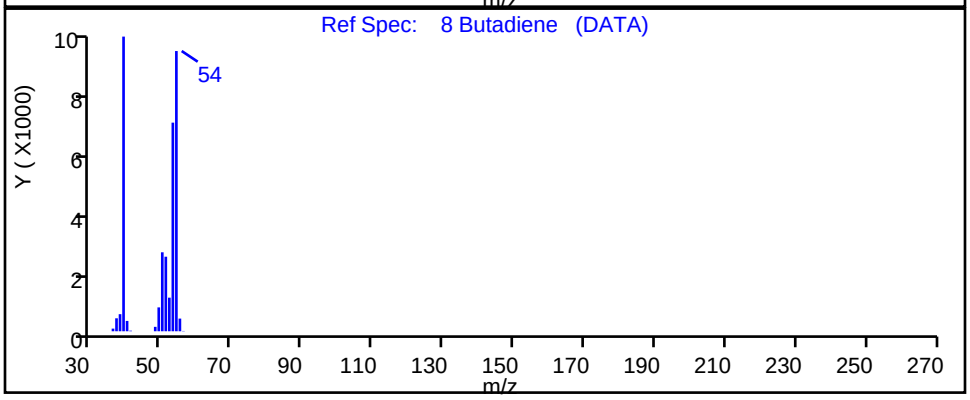
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.69 | 54.00 | 2163 | 0.064204 |

Reviewer: bunmaa, 07-Dec-2018 09:01:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

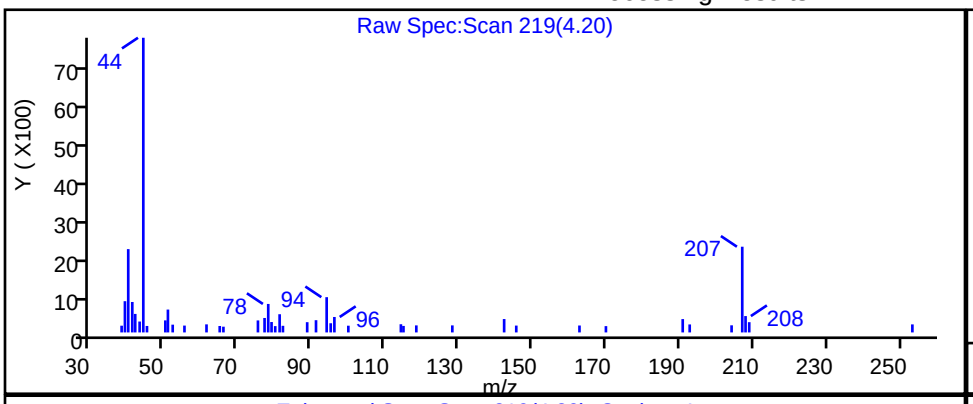
User Disabled Compound Report

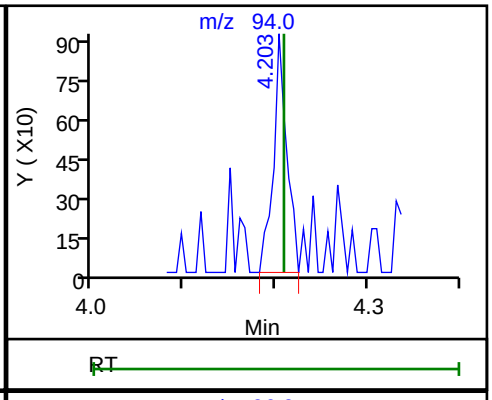
TestAmerica Burlington

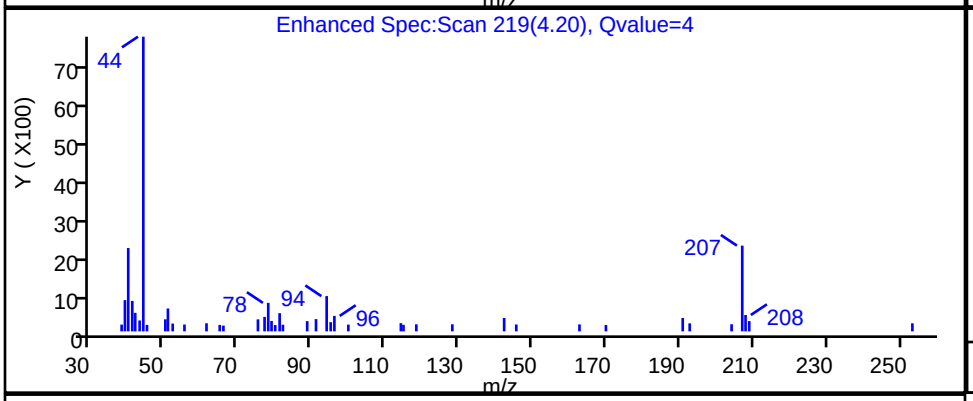
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

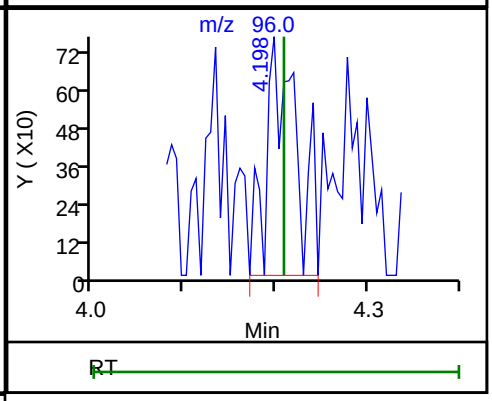
## 10 Bromomethane, CAS: 74-83-9

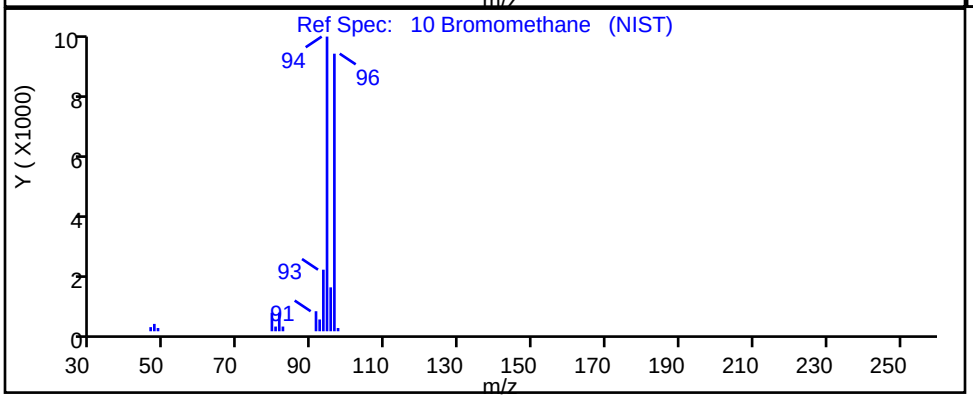
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.20 | 94.00 | 935 | 0.014956 |
| 4.20 | 96.00 | 1765 | |

Reviewer: bunmaa, 07-Dec-2018 09:01:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

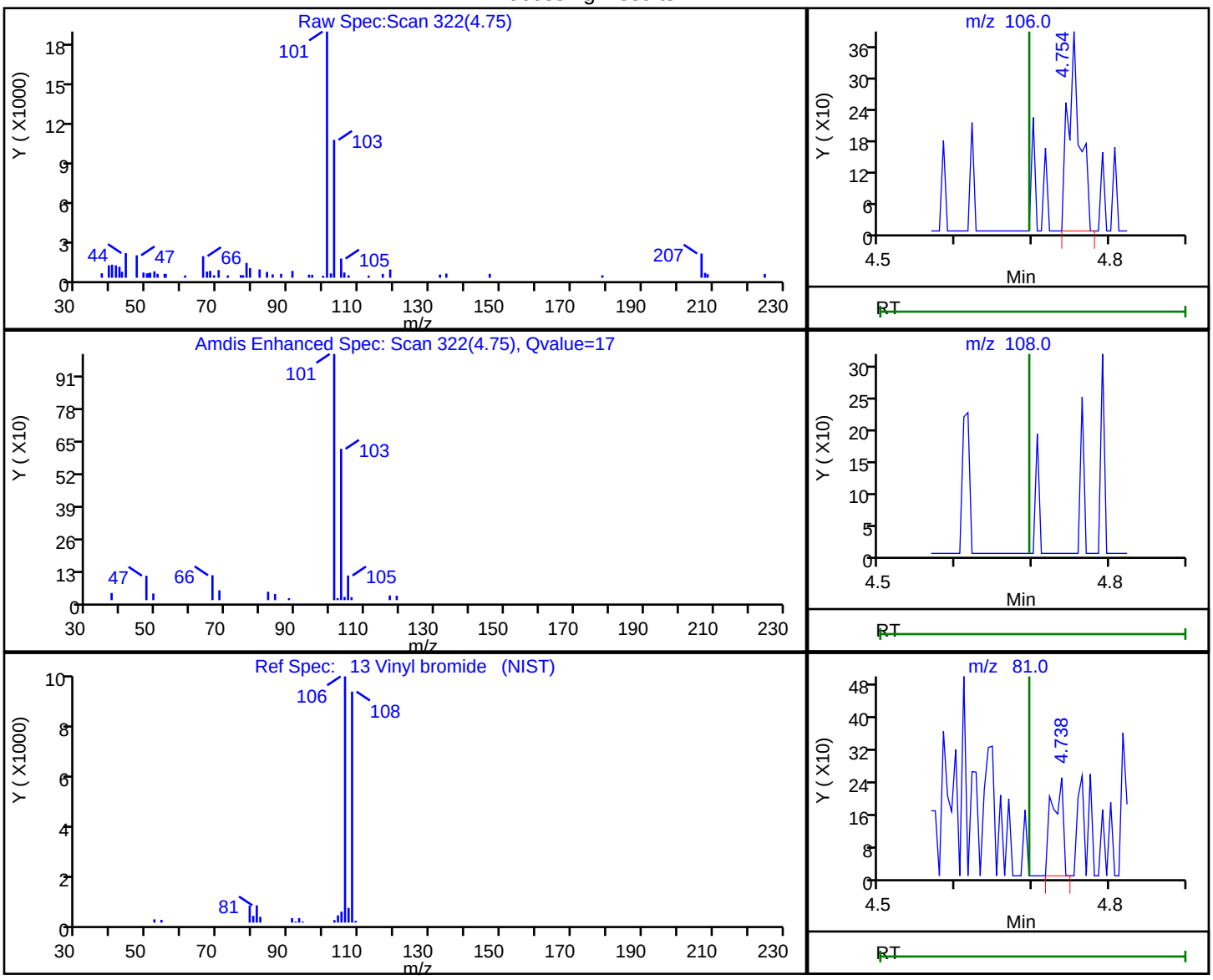
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.75 | 106.00 | 421 | 0.006811 |
| 4.74 | 81.00 | 243 | |
| 4.70 | 108.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:53:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

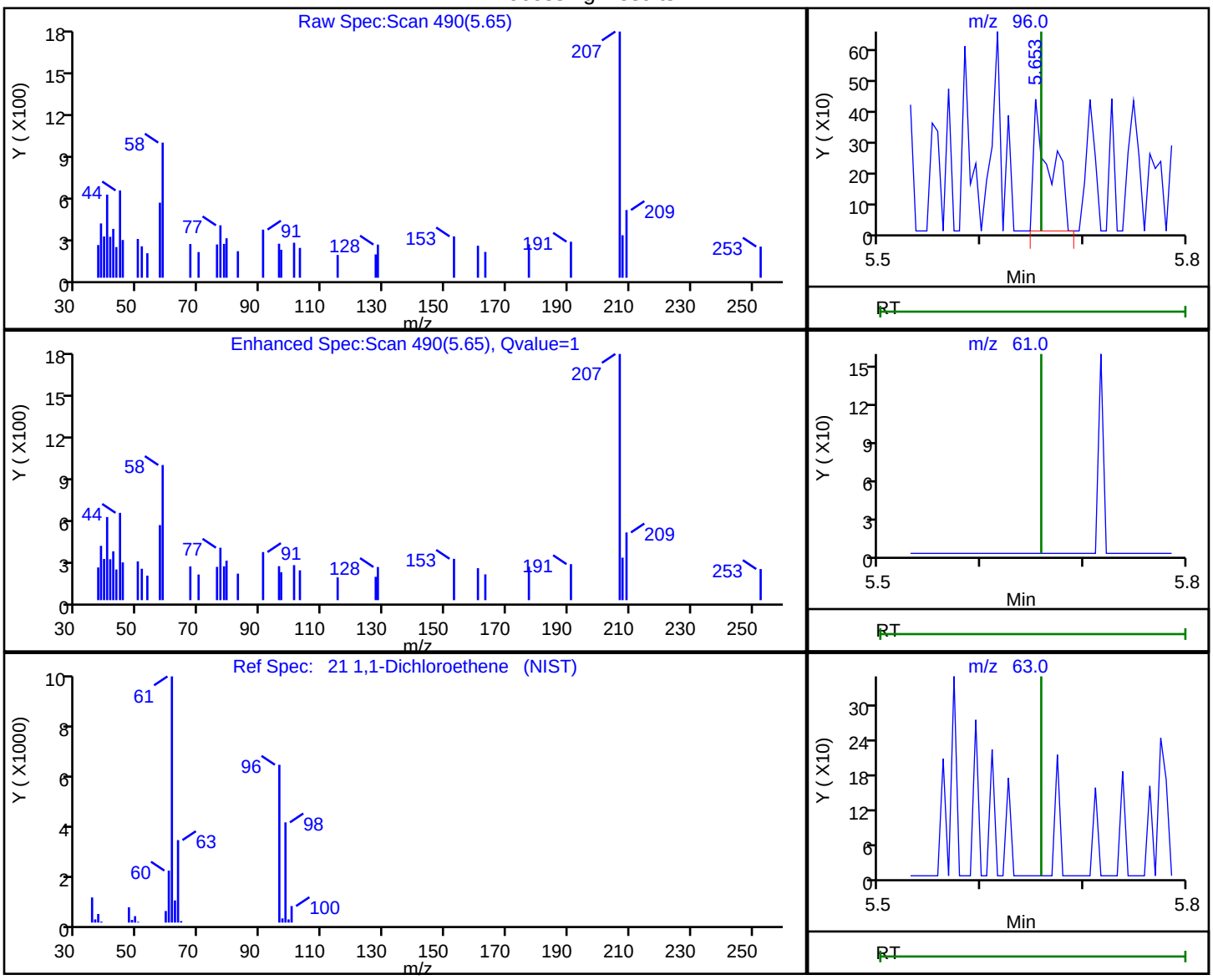
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.65 | 96.00 | 490 | 0.008650 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:53:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

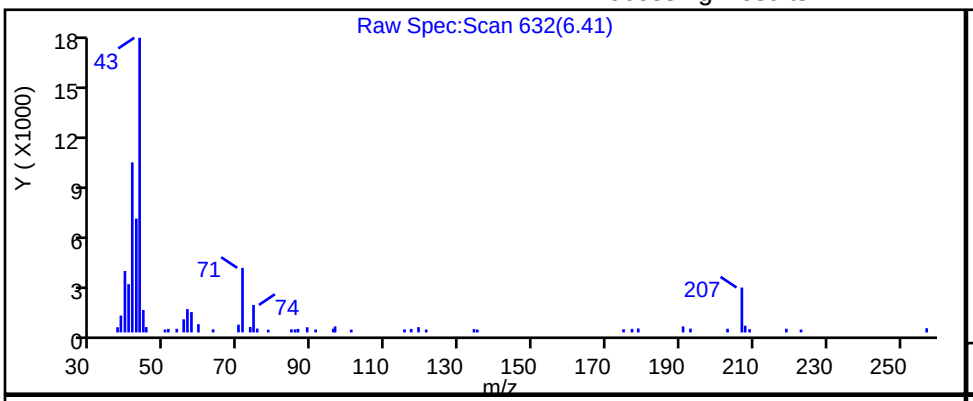
User Disabled Compound Report

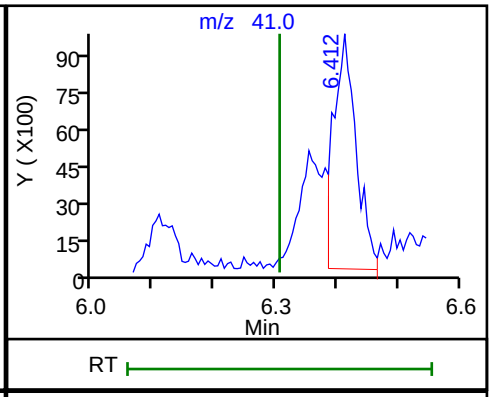
TestAmerica Burlington

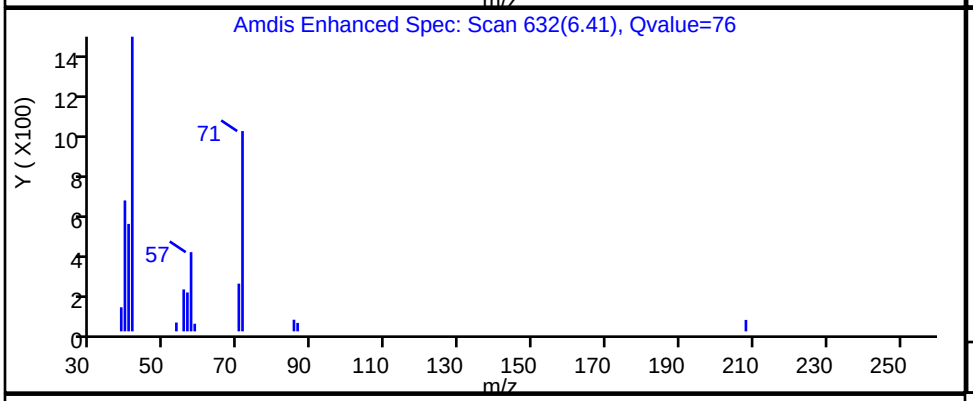
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

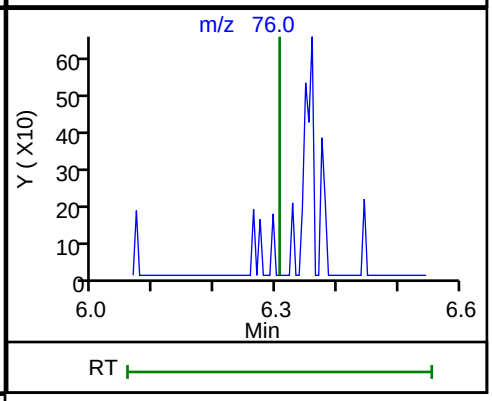
## 25 3-Chloro-1-propene, CAS: 107-05-1

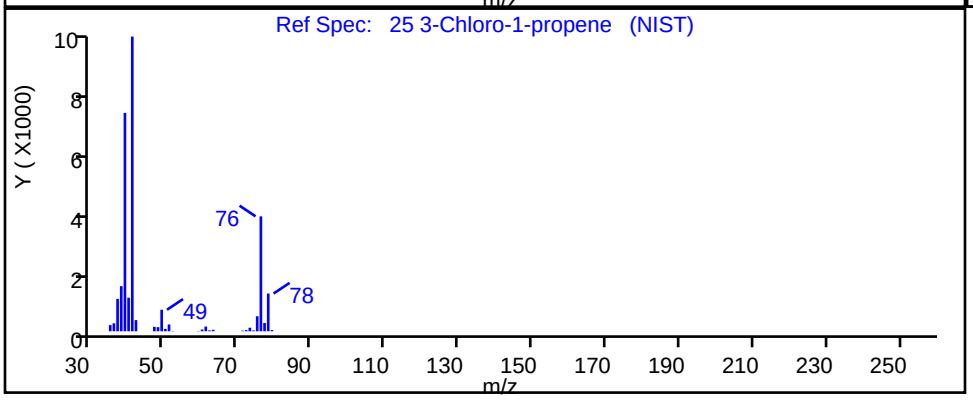
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.41 | 41.00 | 24978 | 0.592665 |
| 6.31 | 76.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:02:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

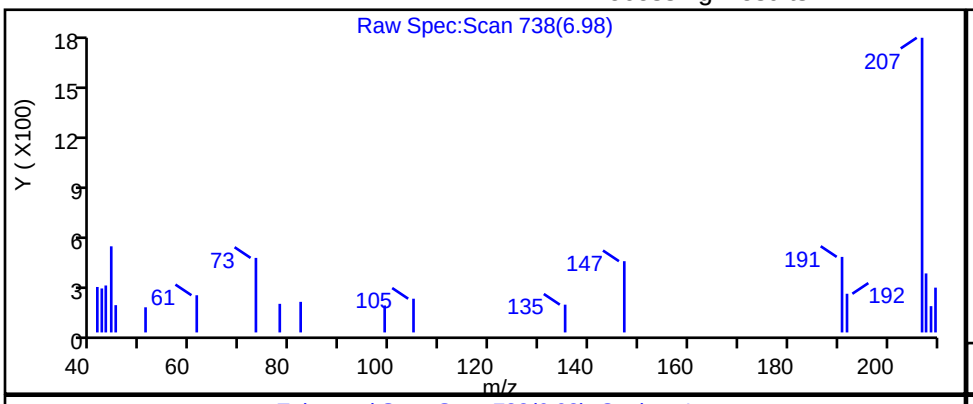
User Disabled Compound Report

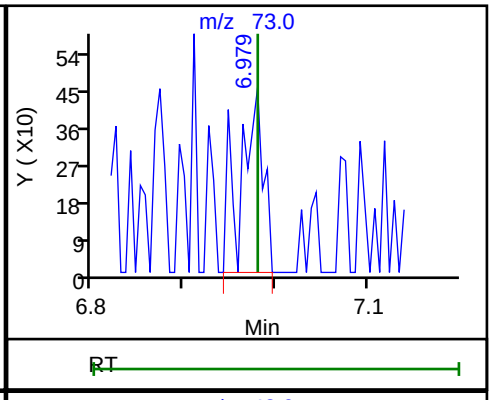
TestAmerica Burlington

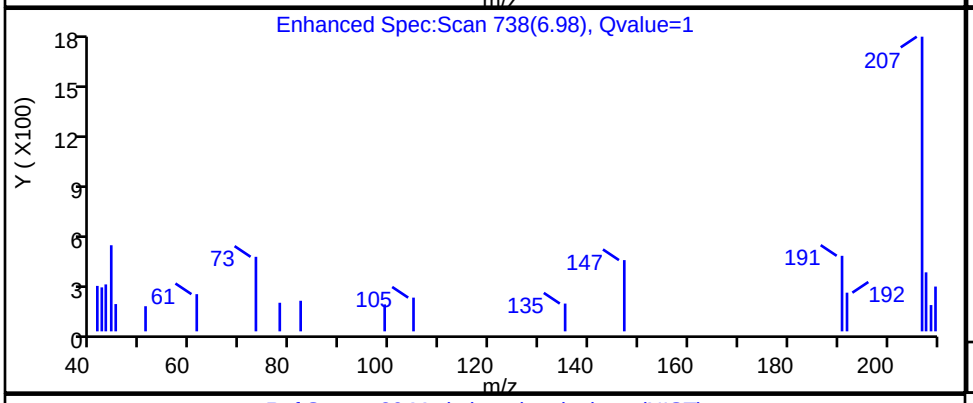
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

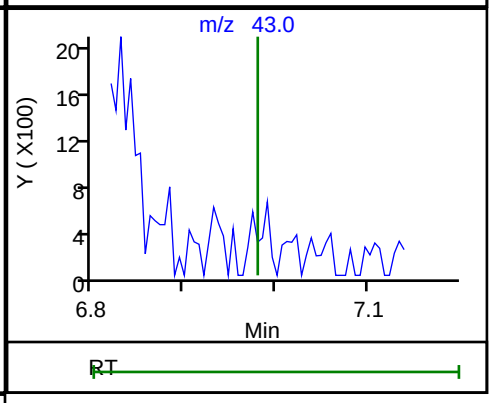
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

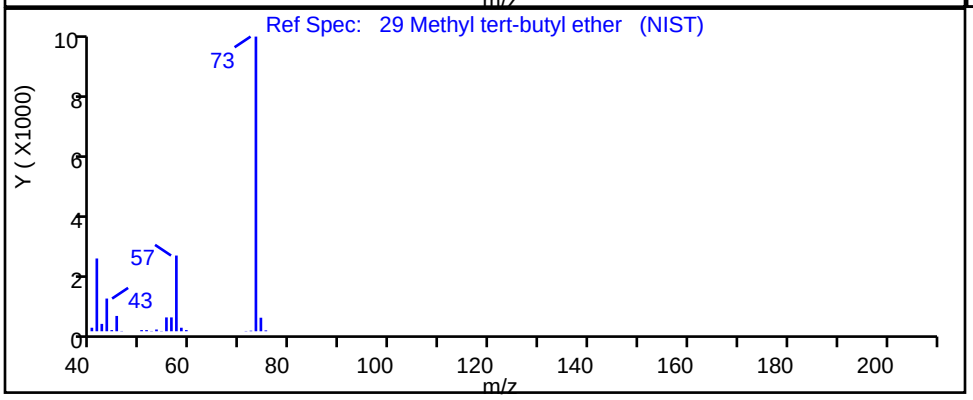
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.98 | 73.00 | 781 | 0.007092 |
| 6.98 | 43.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:55:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

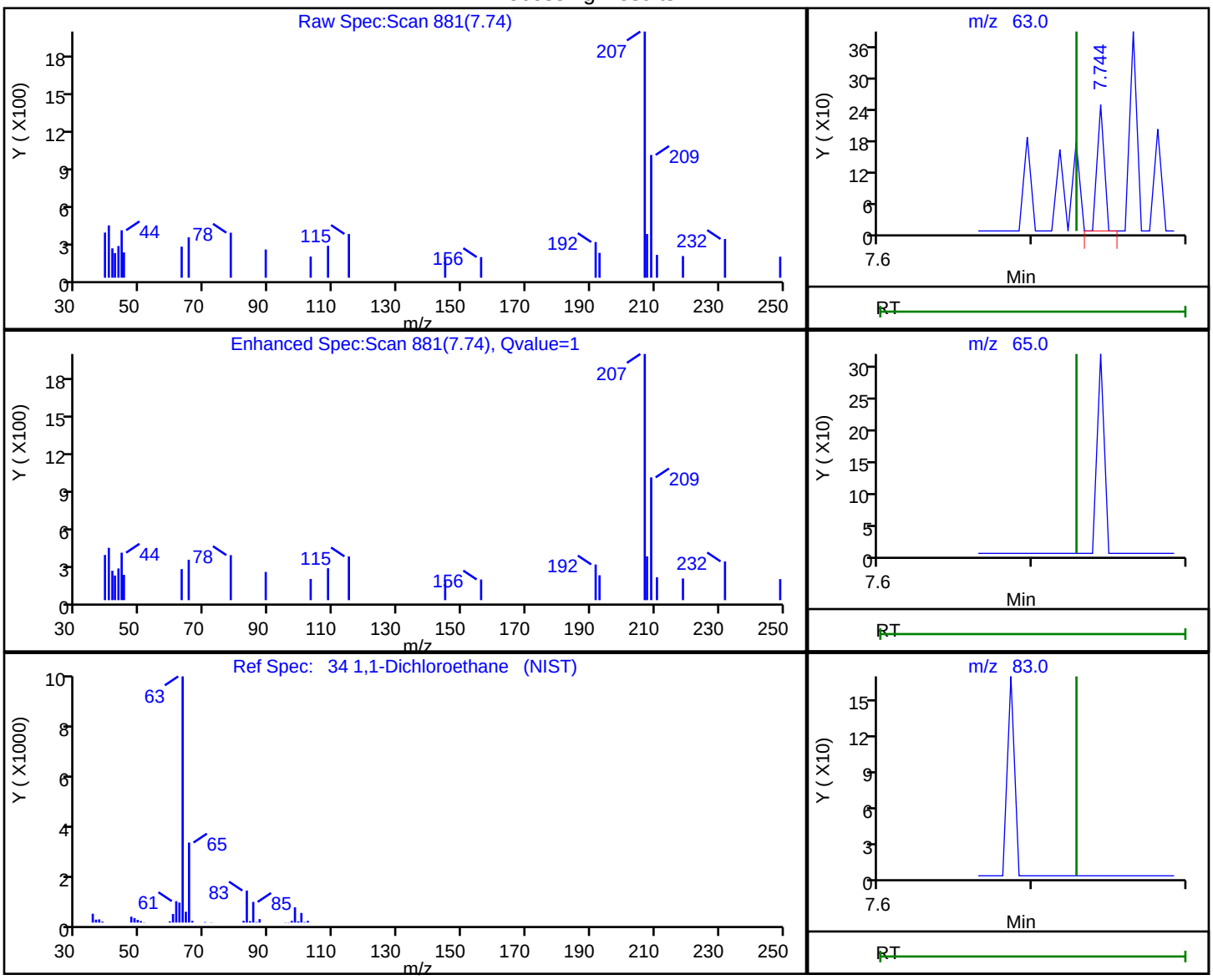
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.74 | 63.00 | 78 | 0.000881 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:55:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

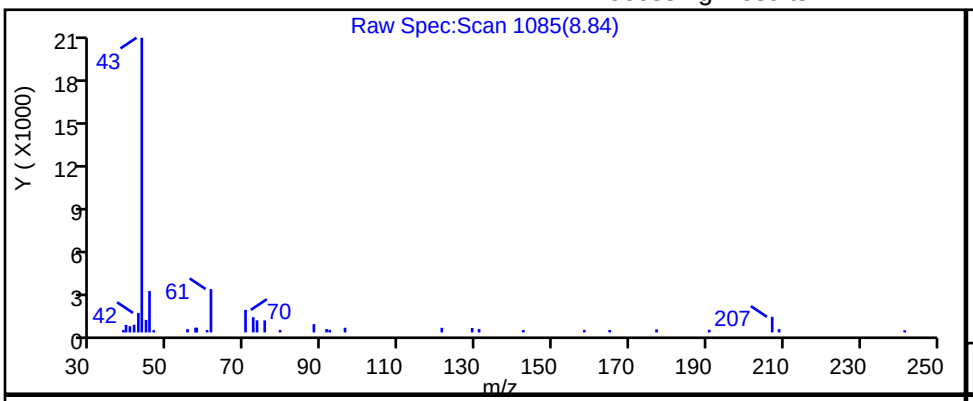
User Disabled Compound Report

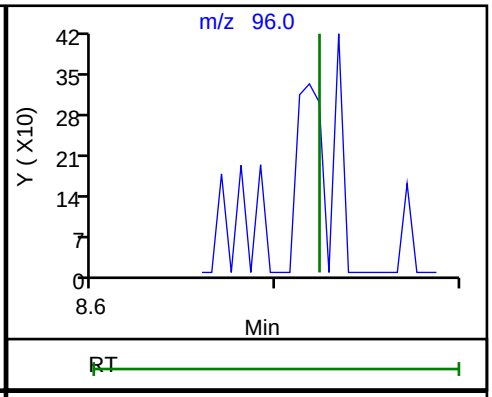
TestAmerica Burlington

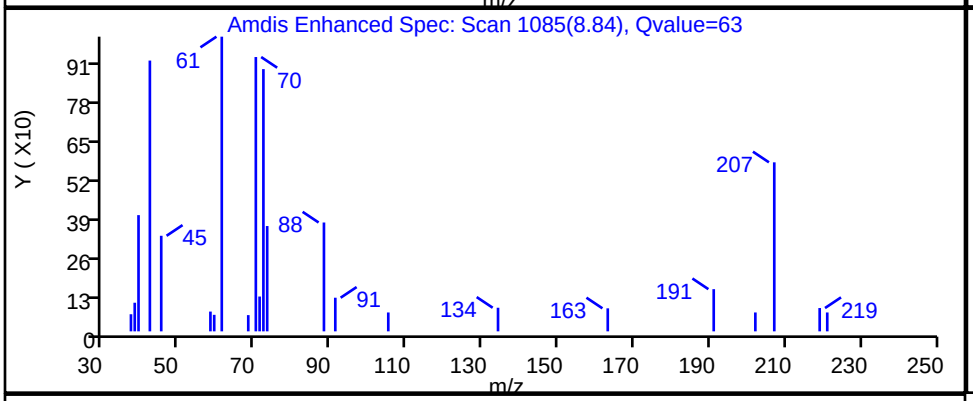
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

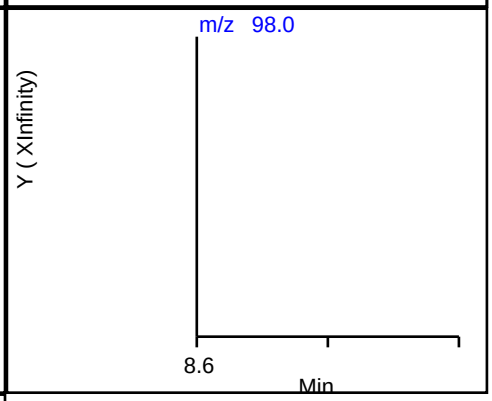
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

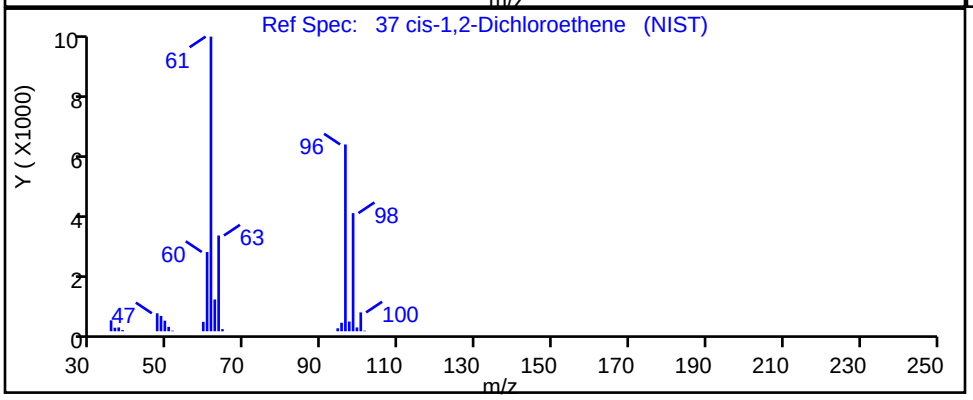
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.84 | 96.00 | 233 | 0.004342 |
| 8.72 | 98.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:55:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

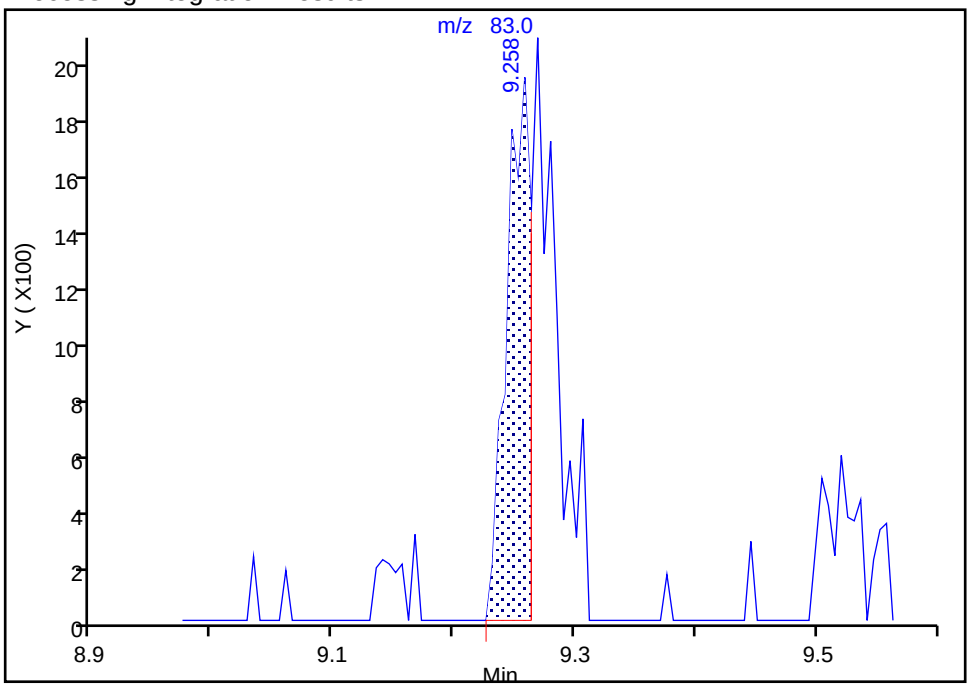
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

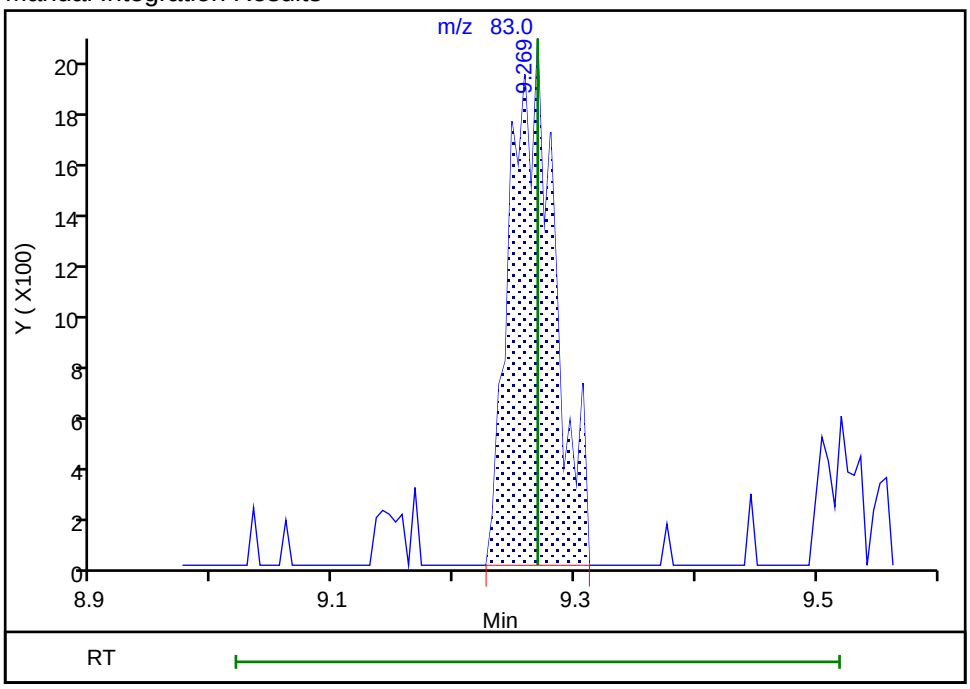
Processing Integration Results

RT: 9.26
Area: 2699
Amount: 0.020851
Amount Units: ppb v/v




Manual Integration Results

RT: 9.27
Area: 5299
Amount: 0.040938
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:03:04
Audit Action: Manually Integrated Audit Reason: Assign Peak

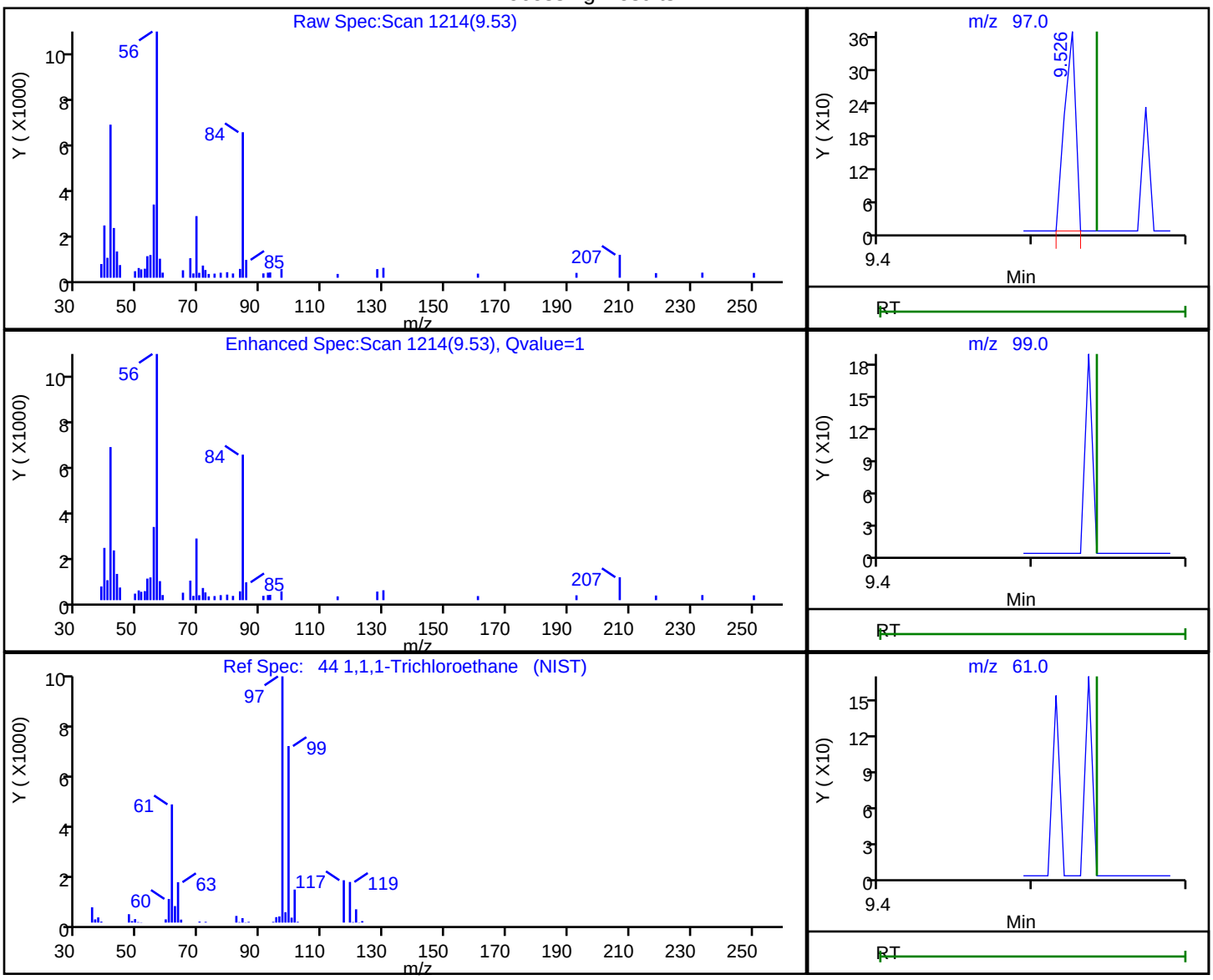
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.53 | 97.00 | 186 | 0.001133 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:03:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

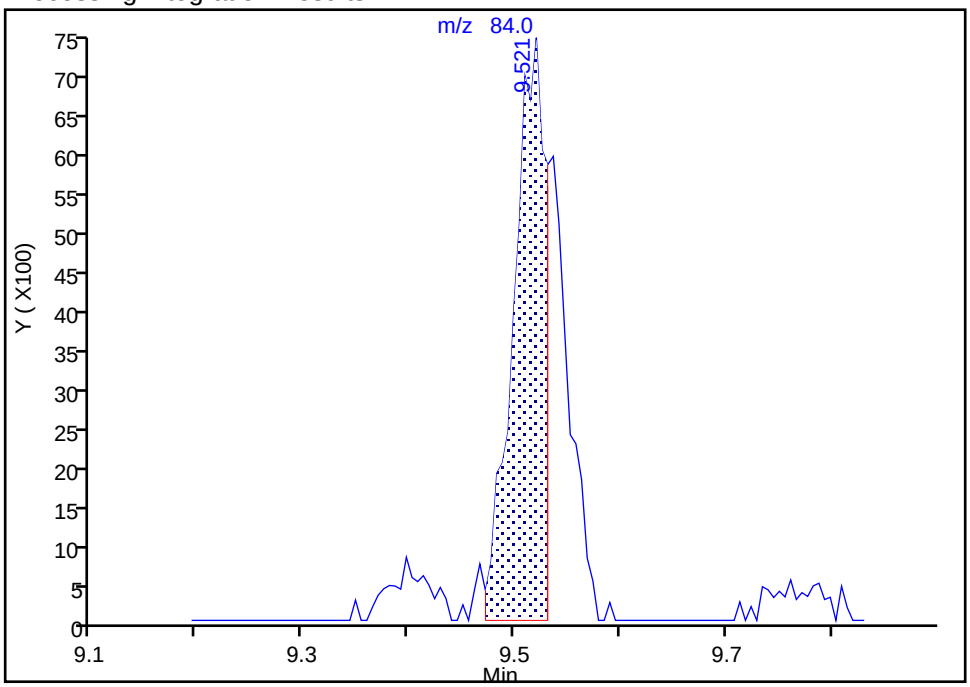
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

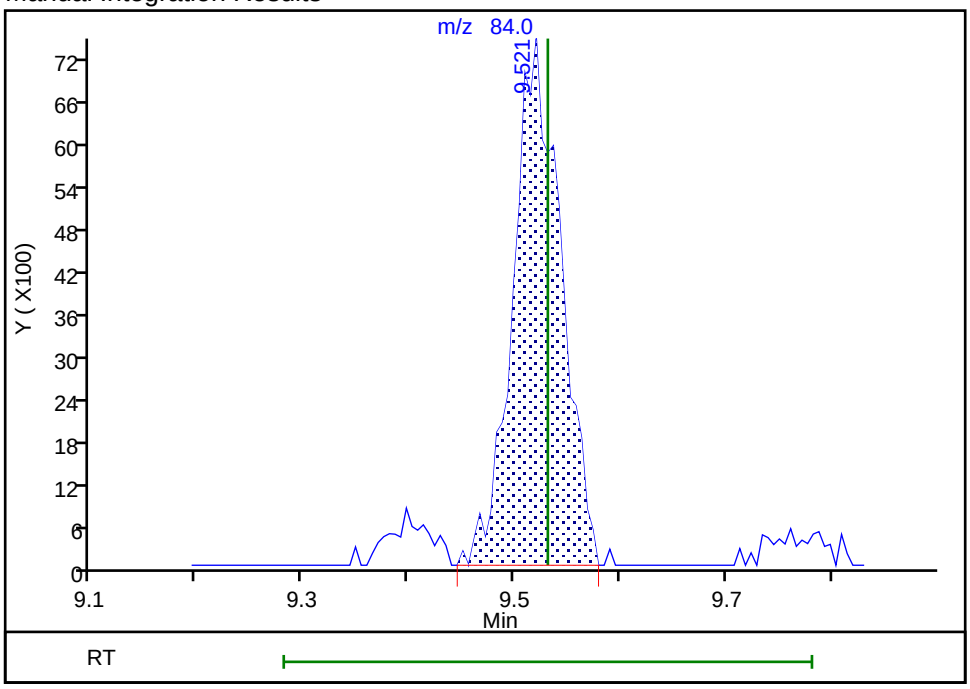
Processing Integration Results

RT: 9.52
Area: 15942
Amount: 0.235122
Amount Units: ppb v/v




Manual Integration Results

RT: 9.52
Area: 23607
Amount: 0.348170
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 11:55:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

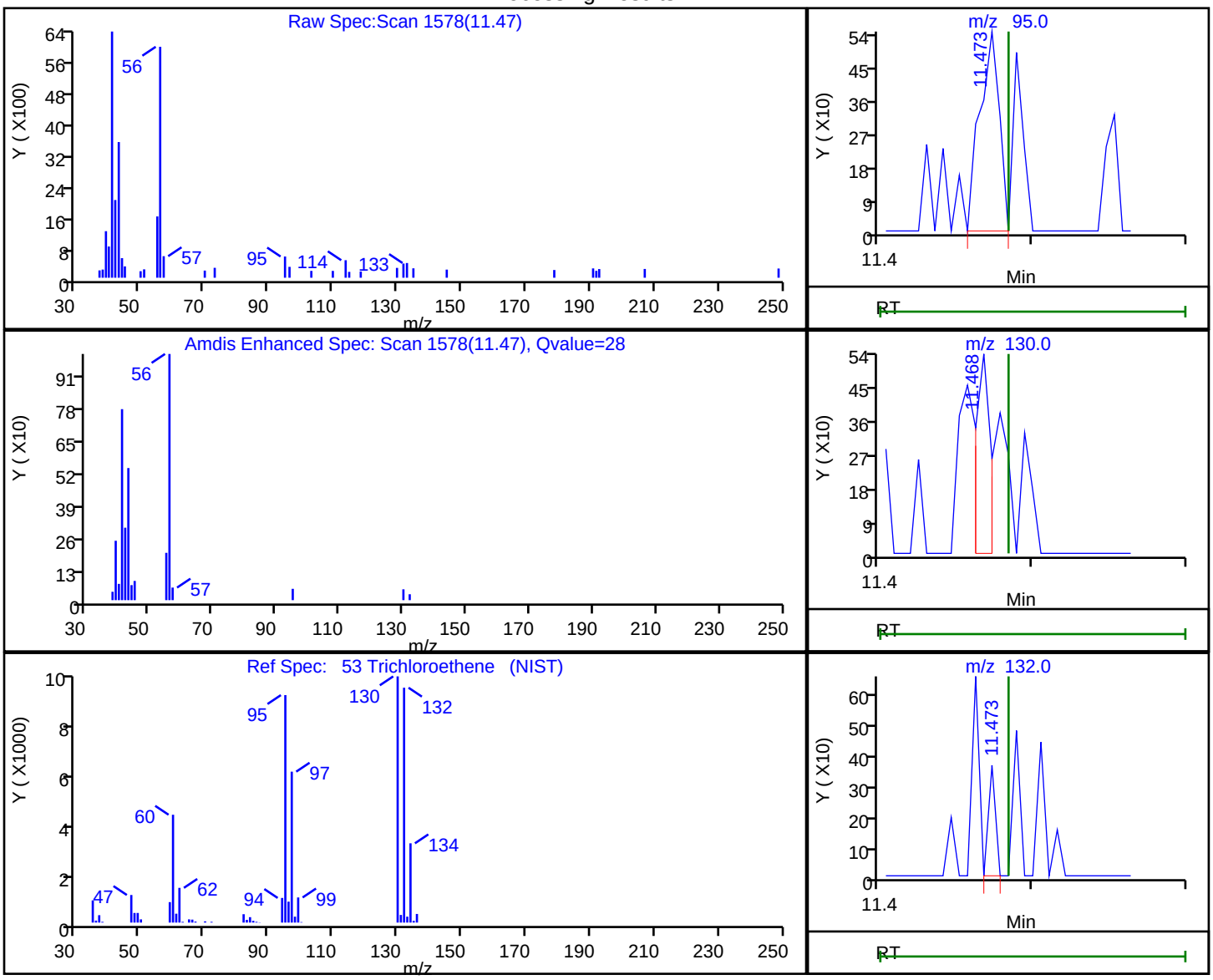
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 11.47 | 95.00 | 483 | 0.004692 |
| 11.47 | 130.00 | 359 | |
| 11.47 | 132.00 | 117 | |

Reviewer: bunmaa, 07-Dec-2018 09:03:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

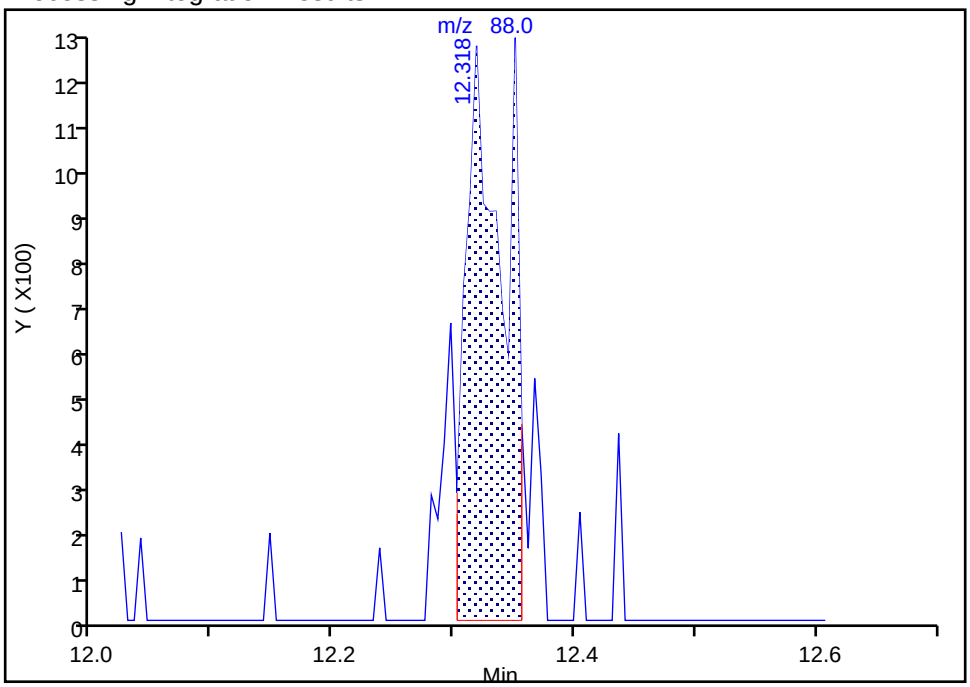
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

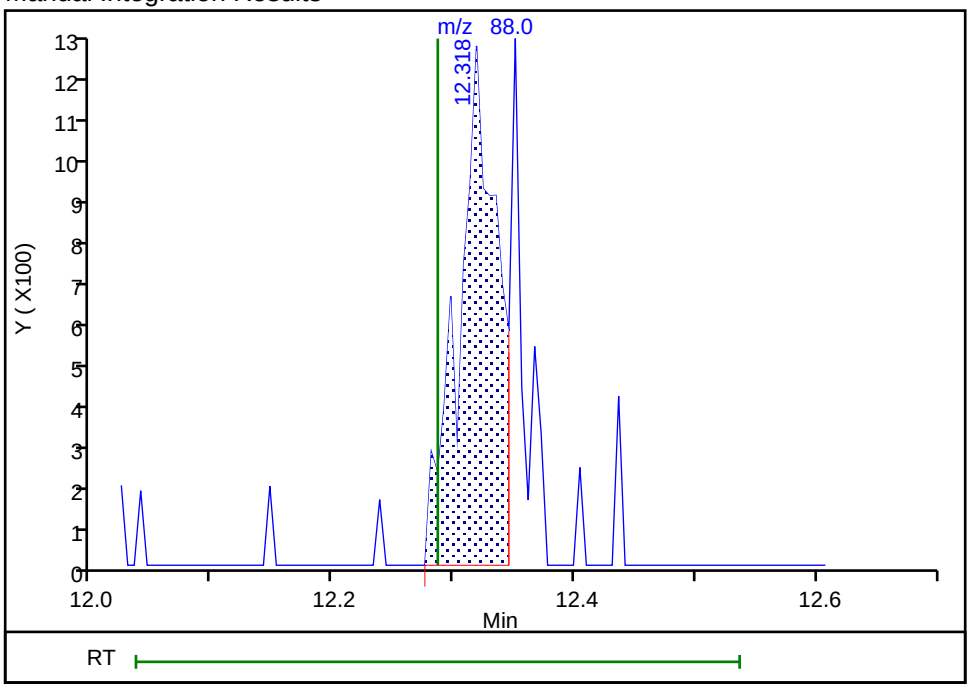
Processing Integration Results

RT: 12.32
Area: 2876
Amount: 0.099466
Amount Units: ppb v/v




Manual Integration Results

RT: 12.32
Area: 2821
Amount: 0.097563
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:04:25

Audit Action: Manually Integrated Audit Reason: Assign Peak

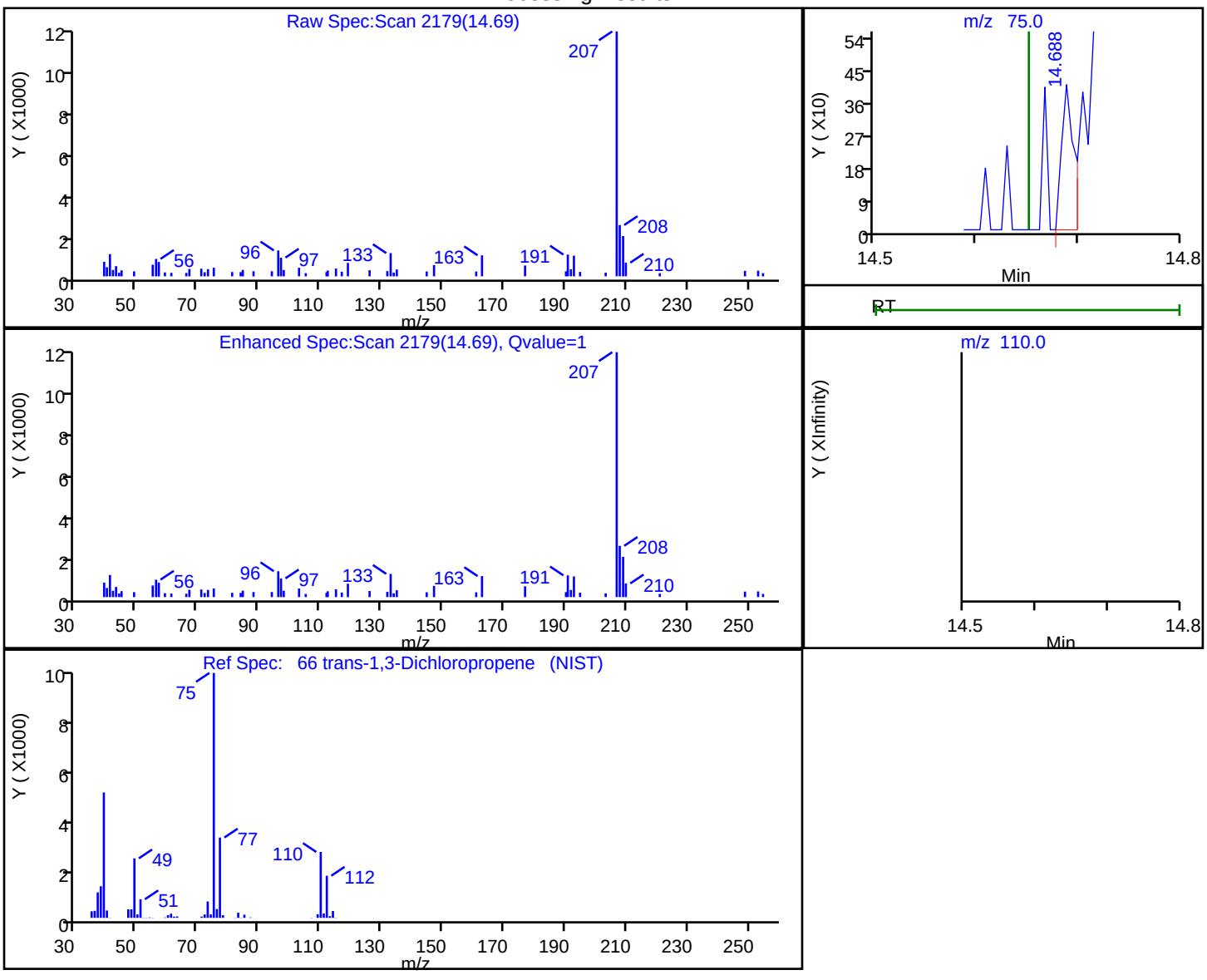
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.69 | 75.00 | 347 | 0.003565 |
| 14.65 | 110.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:56:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

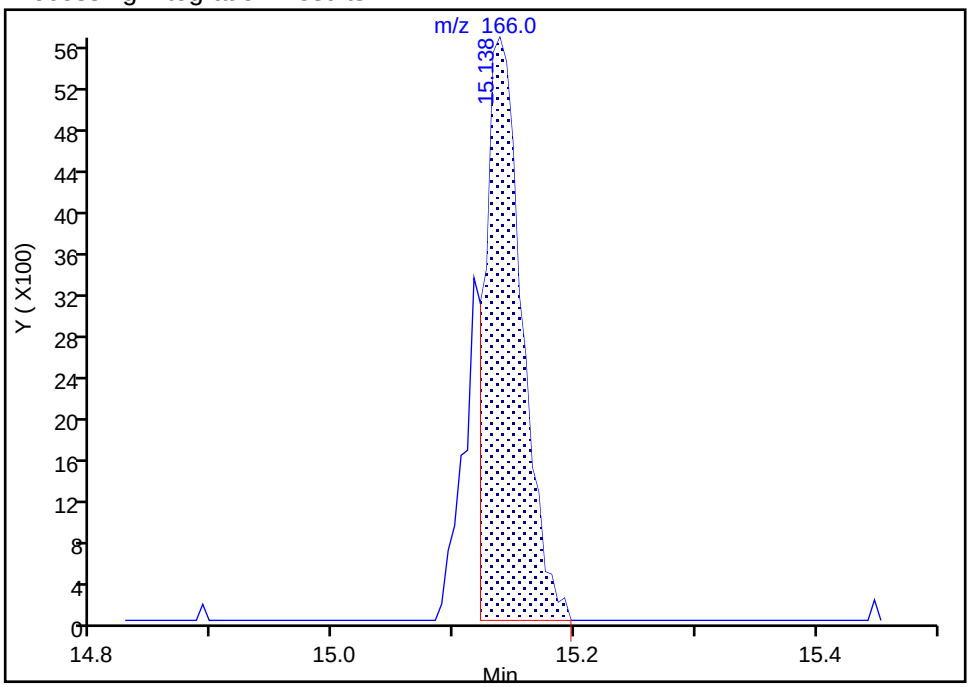
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

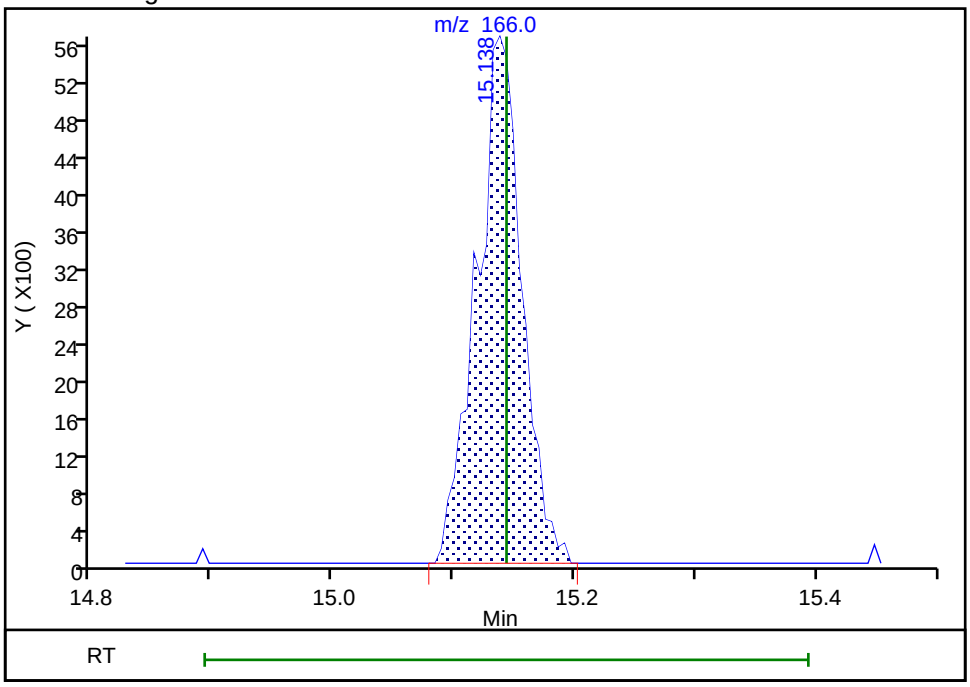
Processing Integration Results

RT: 15.14
Area: 12024
Amount: 0.094477
Amount Units: ppb v/v




Manual Integration Results

RT: 15.14
Area: 14699
Amount: 0.115496
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 11:56:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

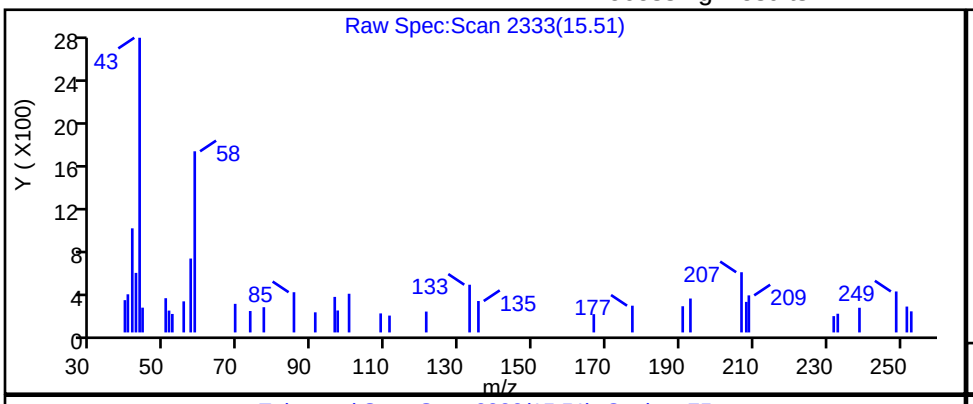
User Disabled Compound Report

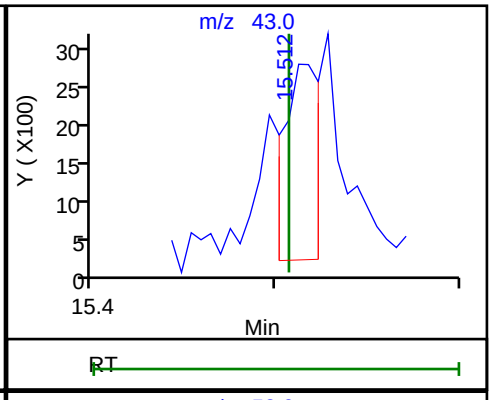
TestAmerica Burlington

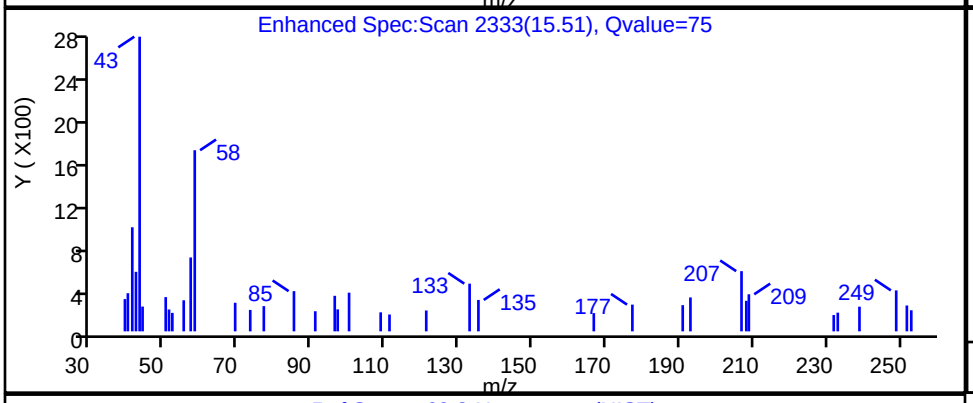
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

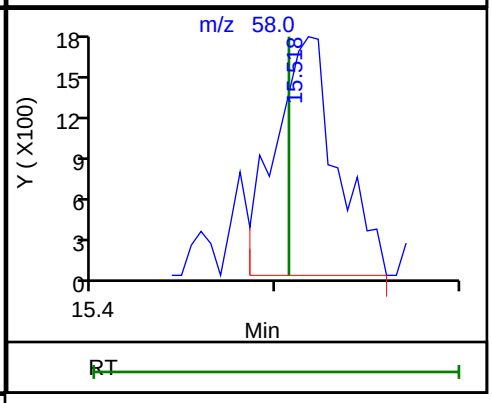
## 69 2-Hexanone, CAS: 591-78-6

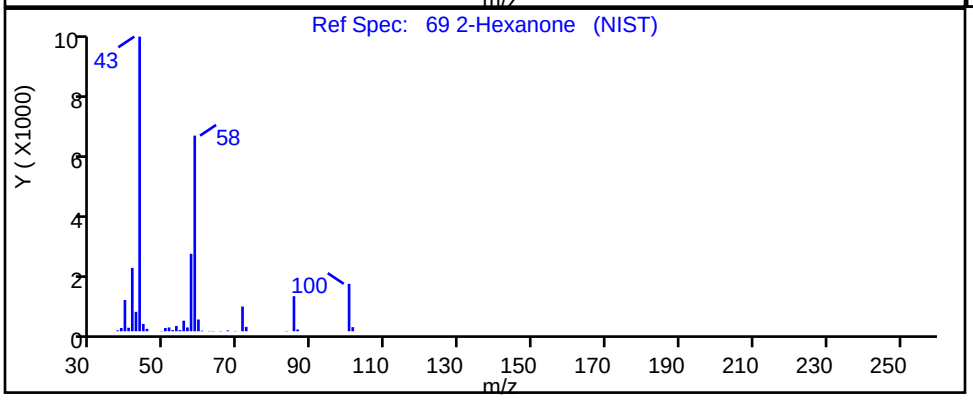
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.51 | 43.00 | 3488 | 0.037337 |
| 15.52 | 58.00 | 4205 | |

Reviewer: bunmaa, 07-Dec-2018 09:05:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

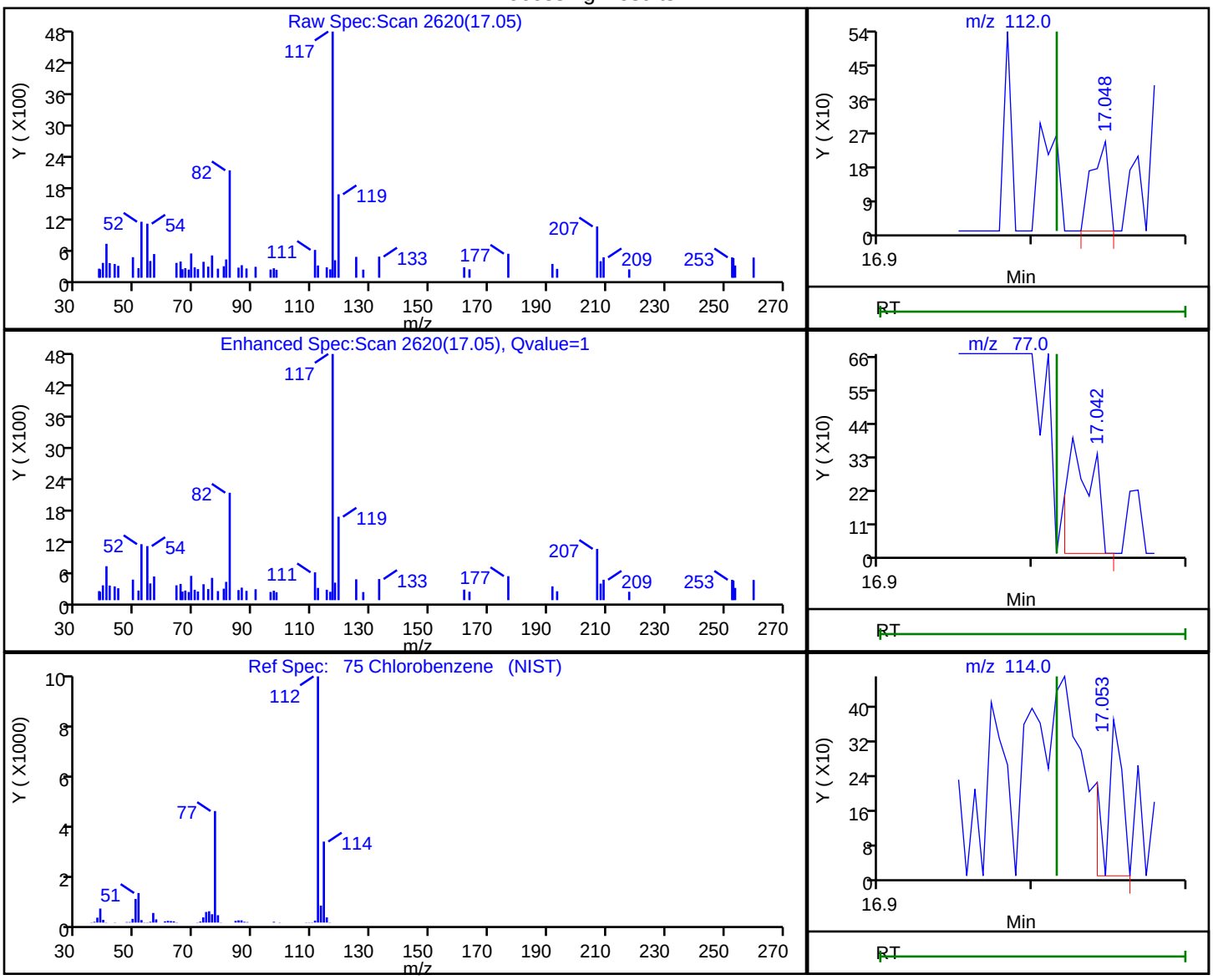
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.05 | 112.00 | 181 | 0.001107 |
| 17.04 | 77.00 | 436 | |
| 17.05 | 114.00 | 268 | |

Reviewer: bunmaa, 07-Dec-2018 09:05:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

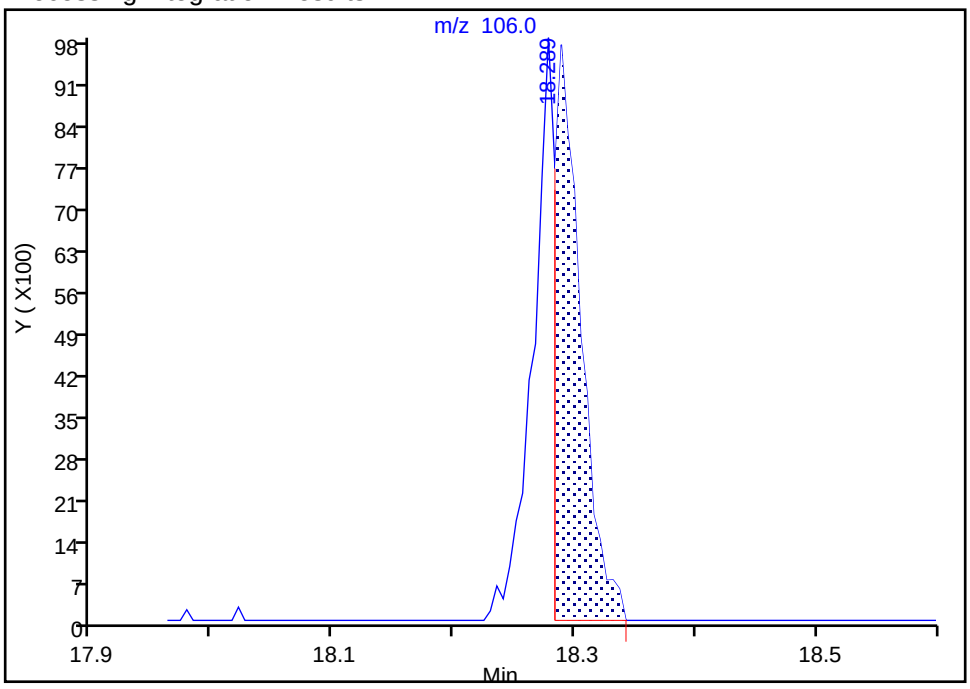
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6

Signal: 1

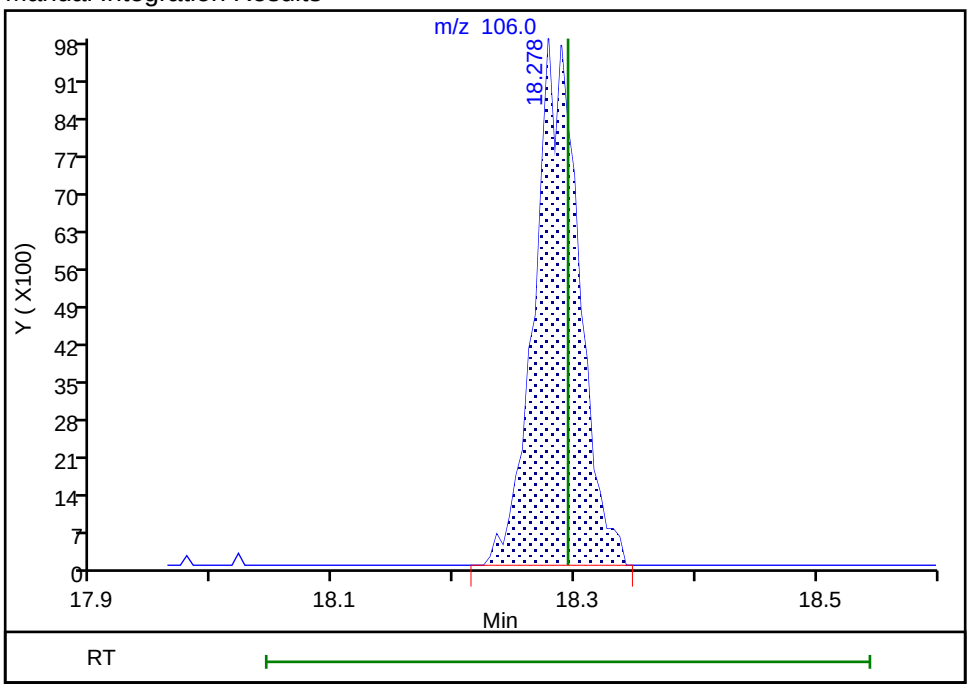
Processing Integration Results

RT: 18.29
Area: 14944
Amount: 0.162073
Amount Units: ppb v/v




Manual Integration Results

RT: 18.28
Area: 25188
Amount: 0.273172
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 11:56:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

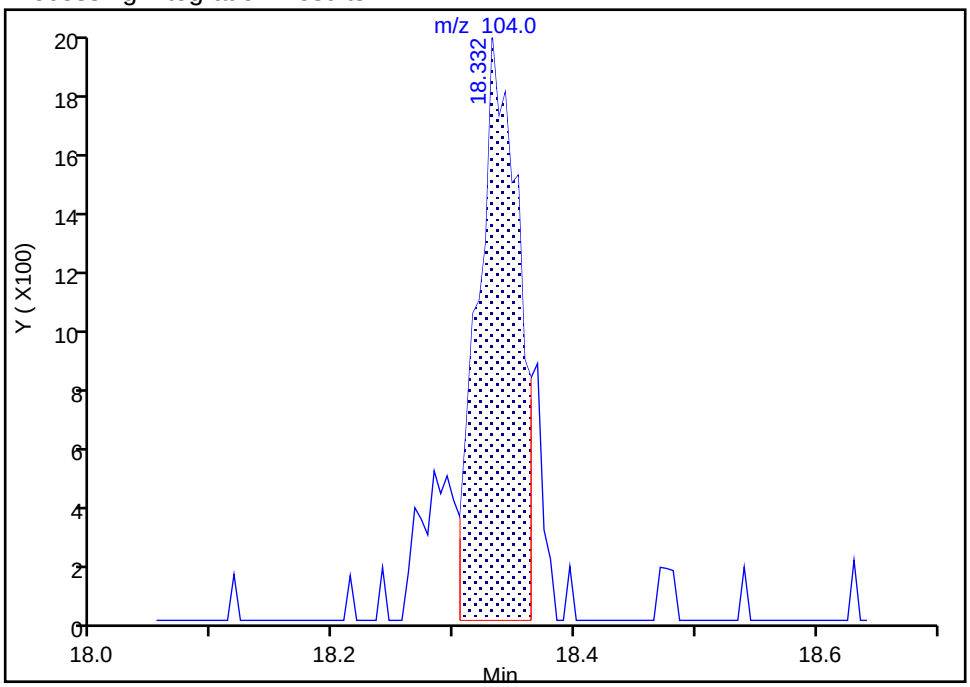
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Signal: 1

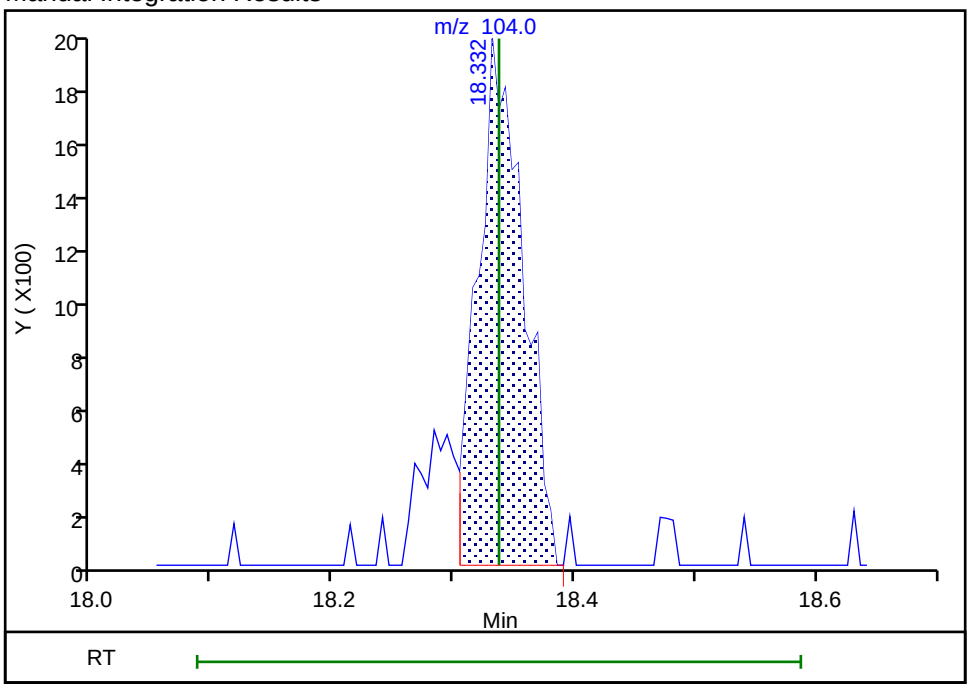
Processing Integration Results

RT: 18.33
Area: 4683
Amount: 0.033178
Amount Units: ppb v/v




Manual Integration Results

RT: 18.33
Area: 5128
Amount: 0.036330
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 11:56:55

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

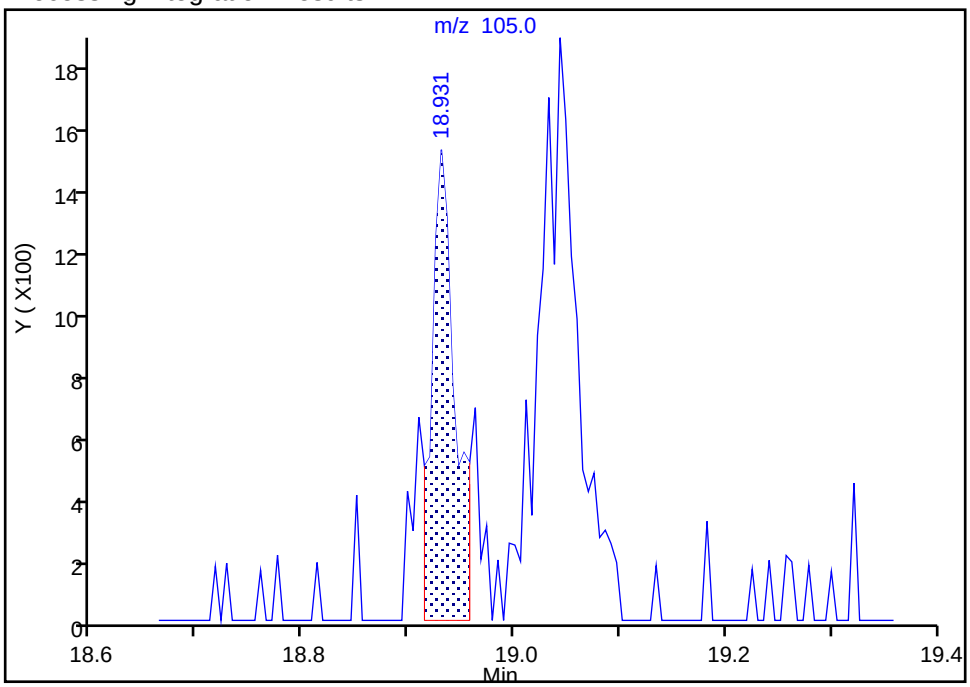
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Signal: 1

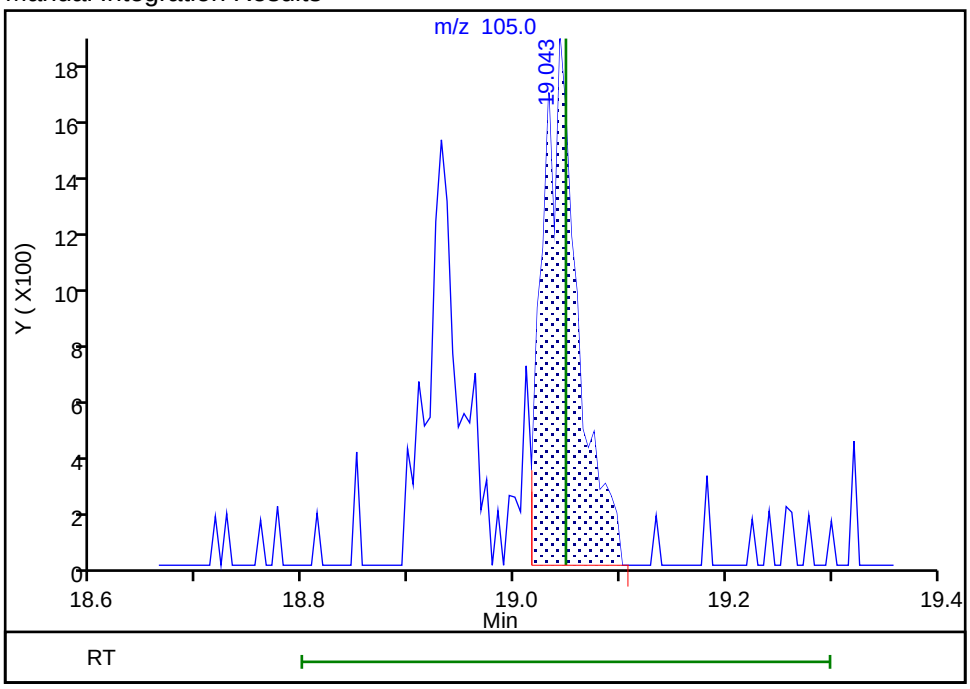
Processing Integration Results

RT: 18.93
Area: 2316
Amount: 0.008590
Amount Units: ppb v/v




Manual Integration Results

RT: 19.04
Area: 4162
Amount: 0.015437
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:05:53

Audit Action: Manually Integrated Audit Reason: Assign Peak

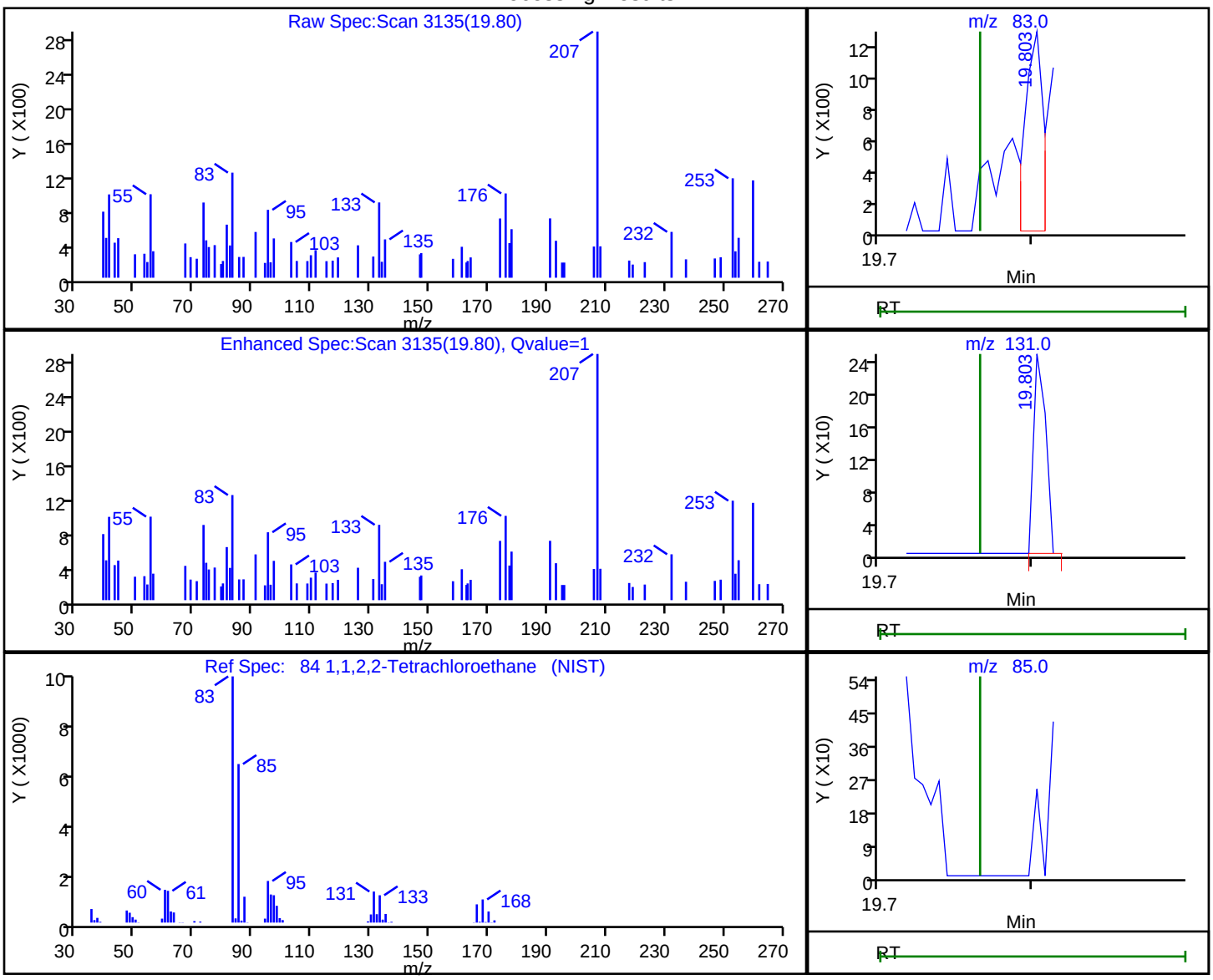
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.80 | 83.00 | 1013 | 0.006886 |
| 19.80 | 131.00 | 133 | |
| 19.77 | 85.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

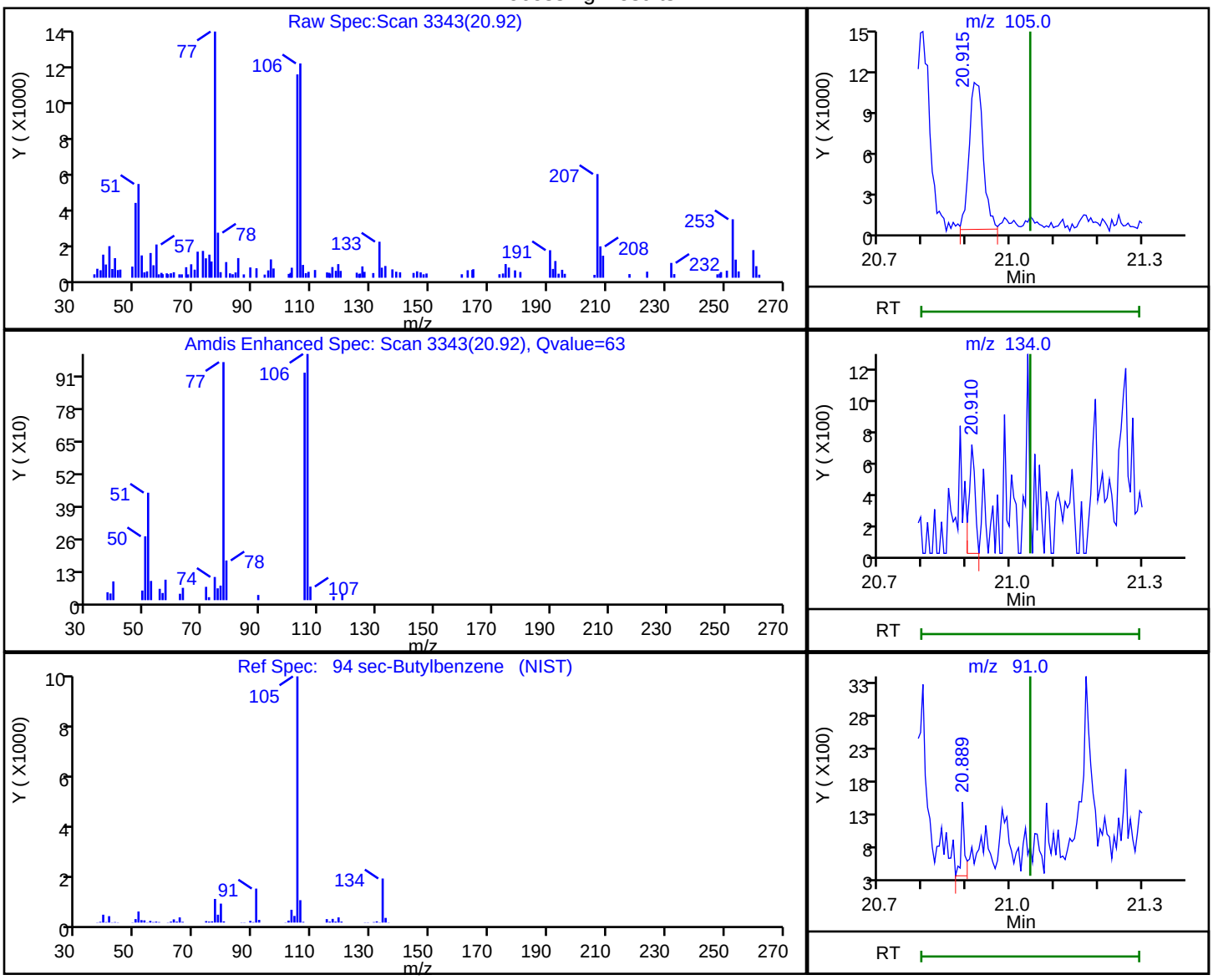
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 23892 | 0.073665 |
| 20.91 | 134.00 | 652 | |
| 20.89 | 91.00 | 624 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

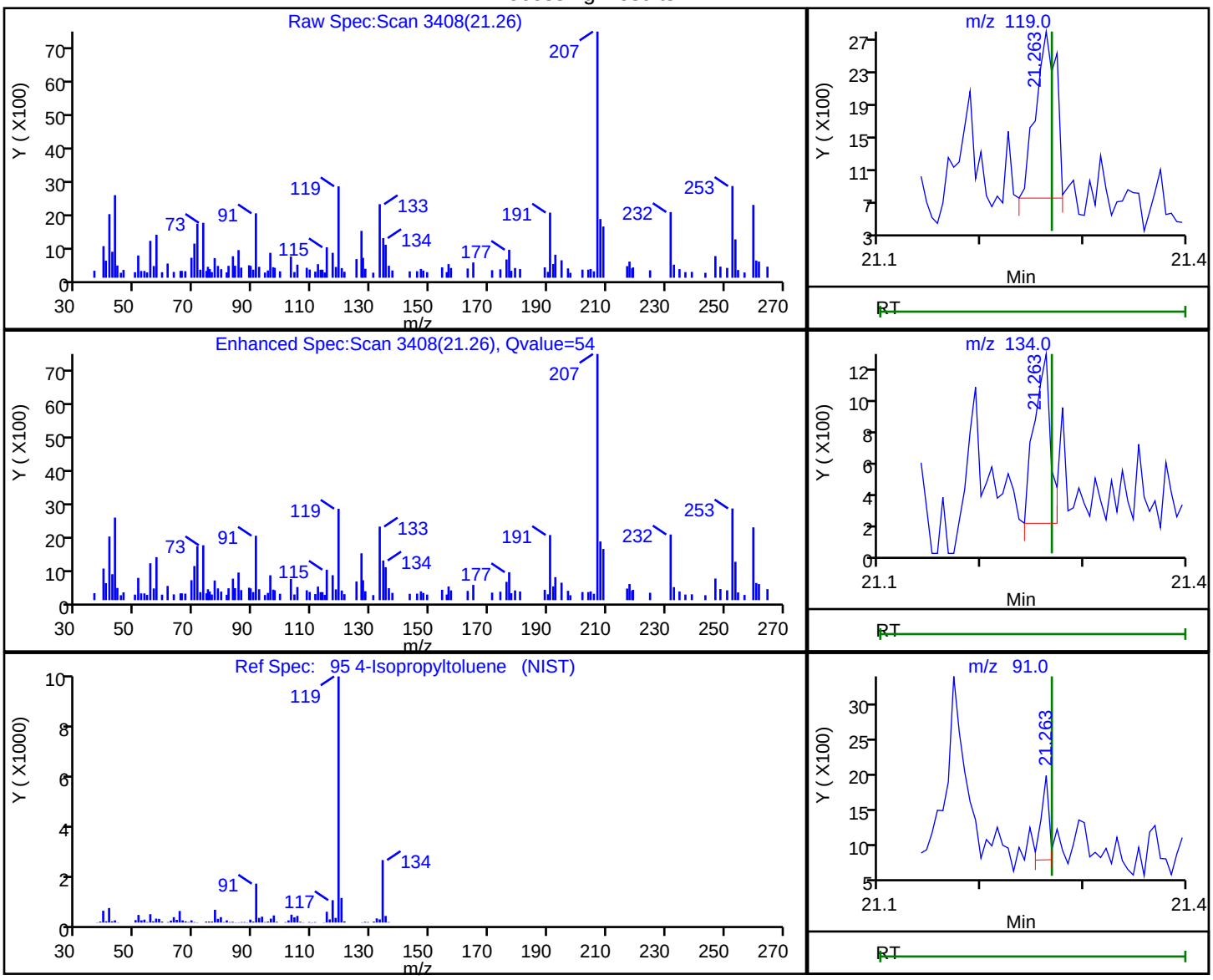
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 119.00 | 2846 | 0.010238 |
| 21.26 | 134.00 | 1132 | |
| 21.26 | 91.00 | 654 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

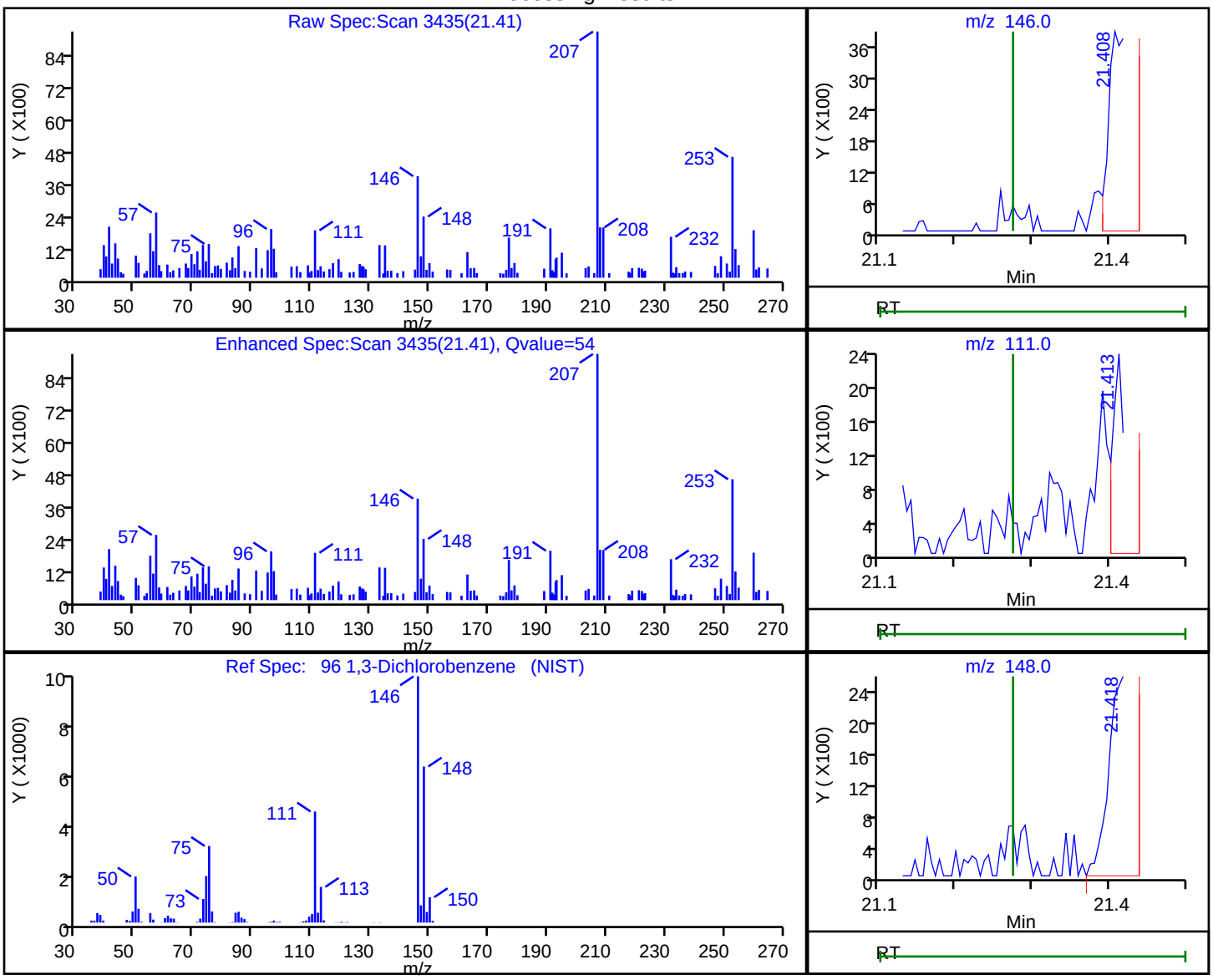
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.41 | 146.00 | 7477 | 0.039990 |
| 21.41 | 111.00 | 3292 | |
| 21.42 | 148.00 | 5112 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

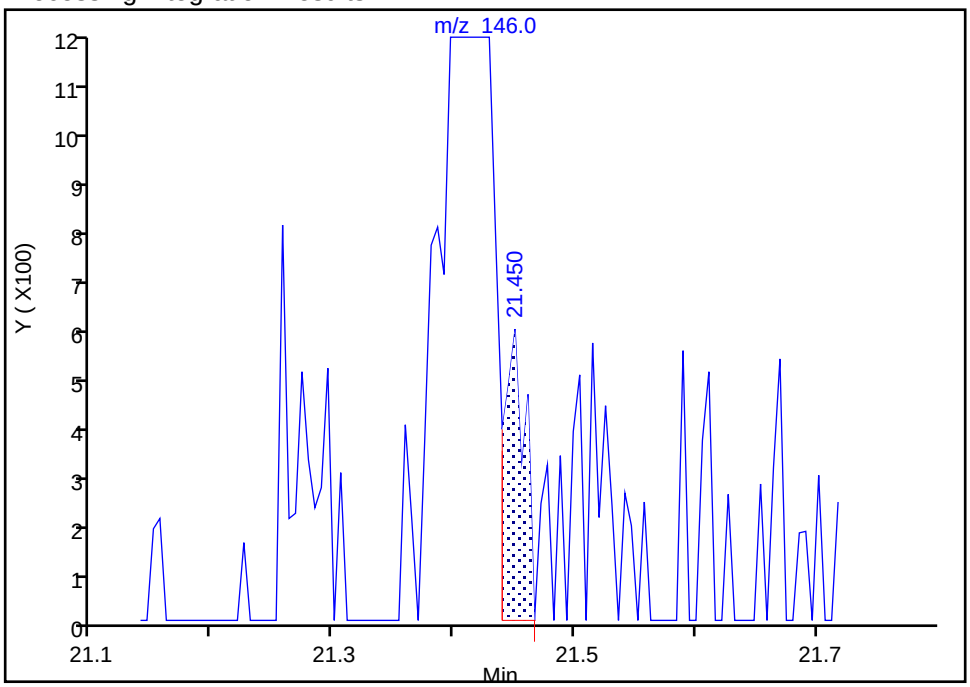
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

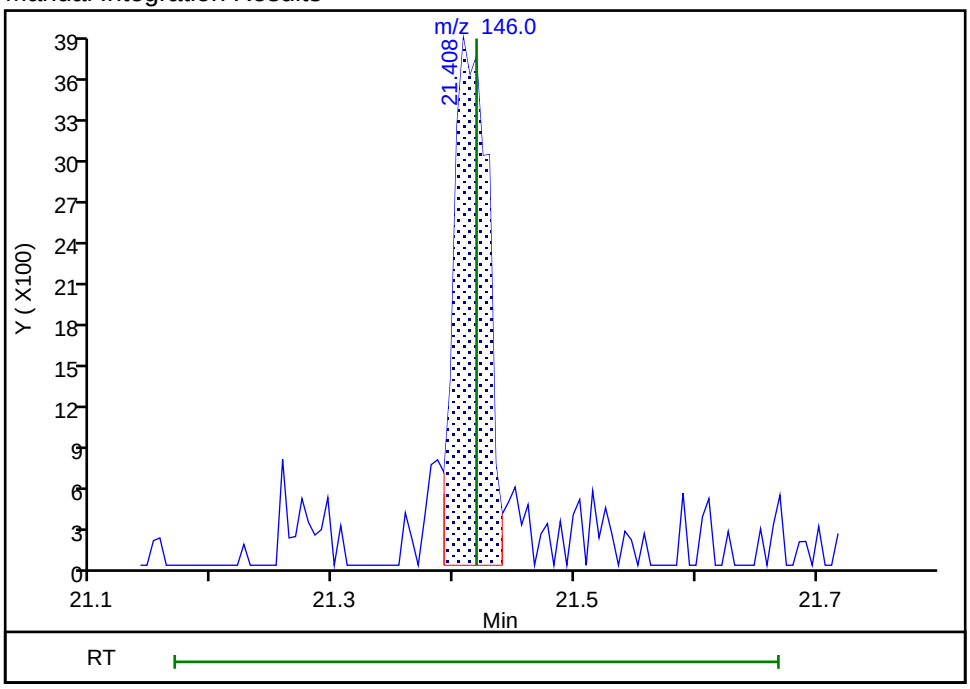
Processing Integration Results

RT: 21.45
Area: 683
Amount: 0.003820
Amount Units: ppb v/v




Manual Integration Results

RT: 21.41
Area: 7477
Amount: 0.041819
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:06:29
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

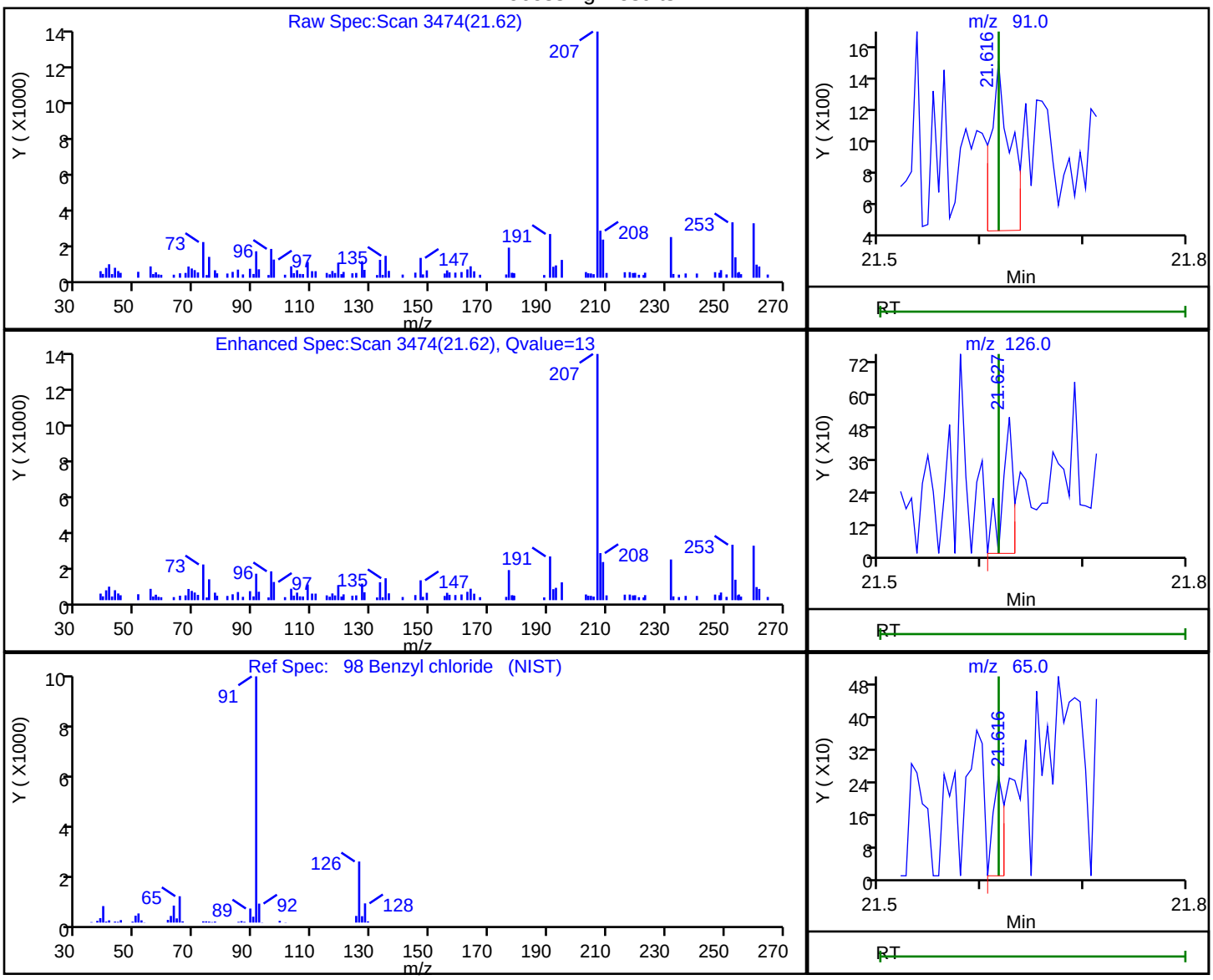
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.62 | 91.00 | 1315 | 0.005958 |
| 21.63 | 126.00 | 383 | |
| 21.62 | 65.00 | 186 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

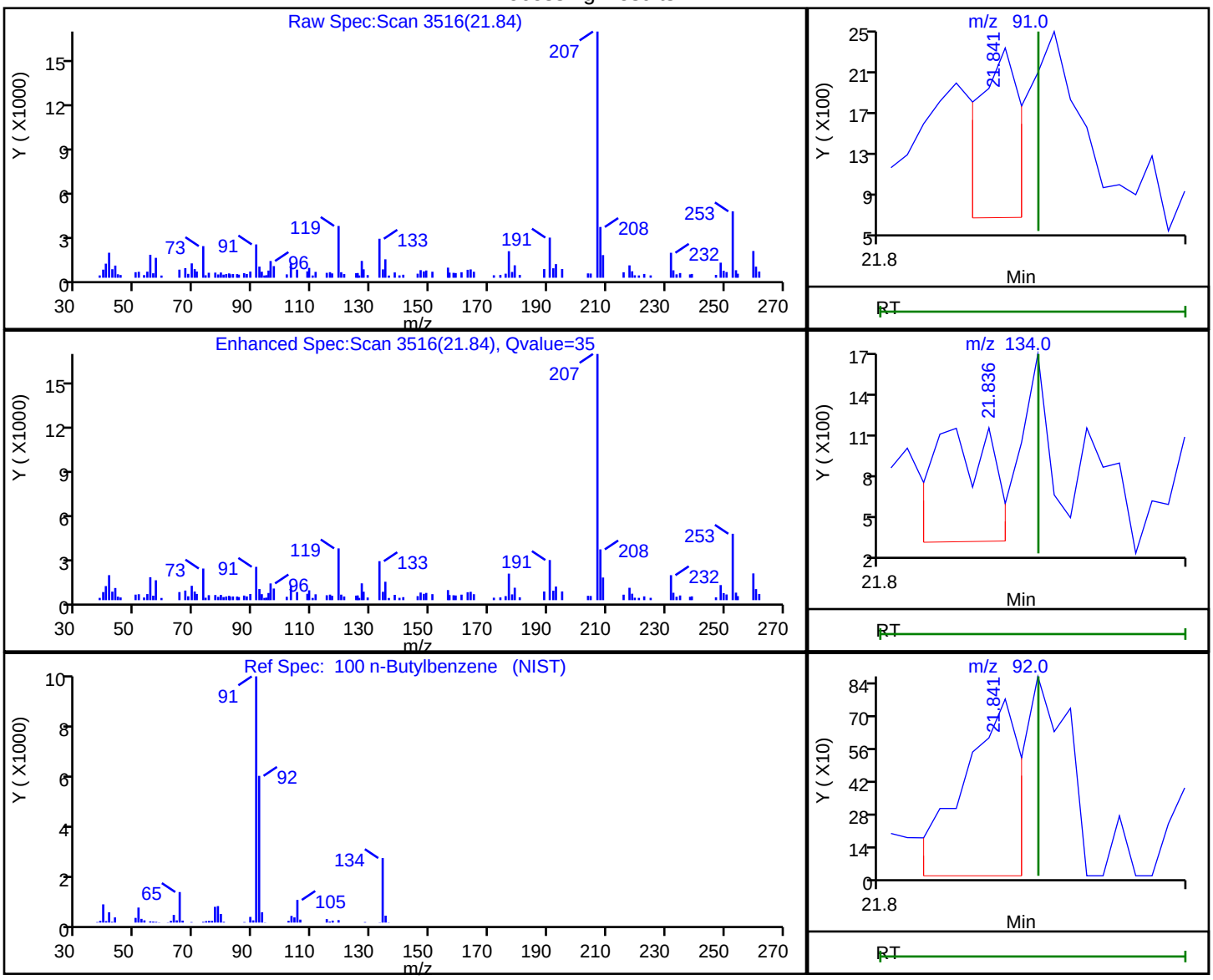
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.84 | 91.00 | 1580 | 0.006235 |
| 21.84 | 134.00 | 1123 | |
| 21.84 | 92.00 | 1011 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

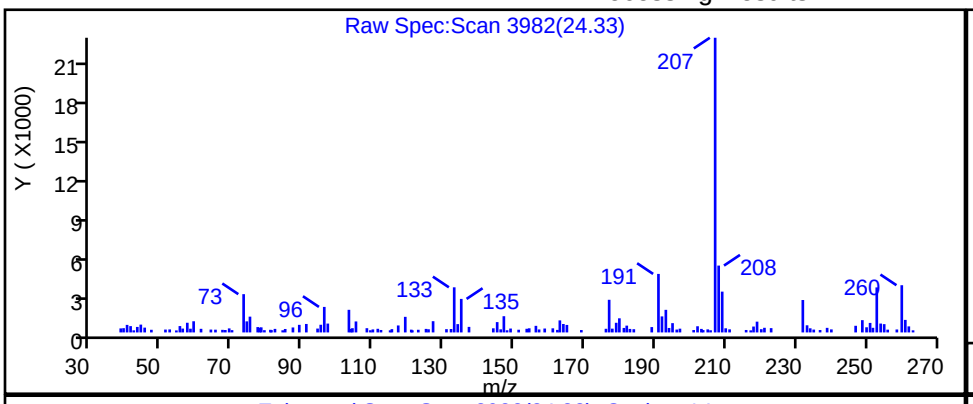
User Disabled Compound Report

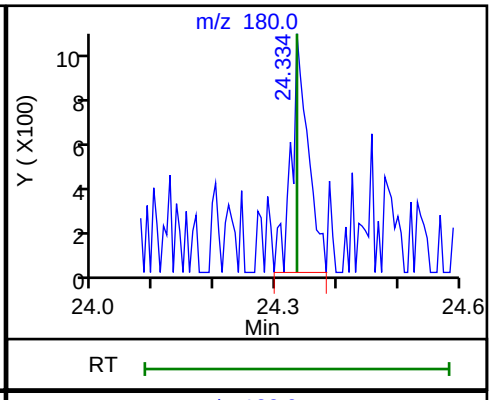
TestAmerica Burlington

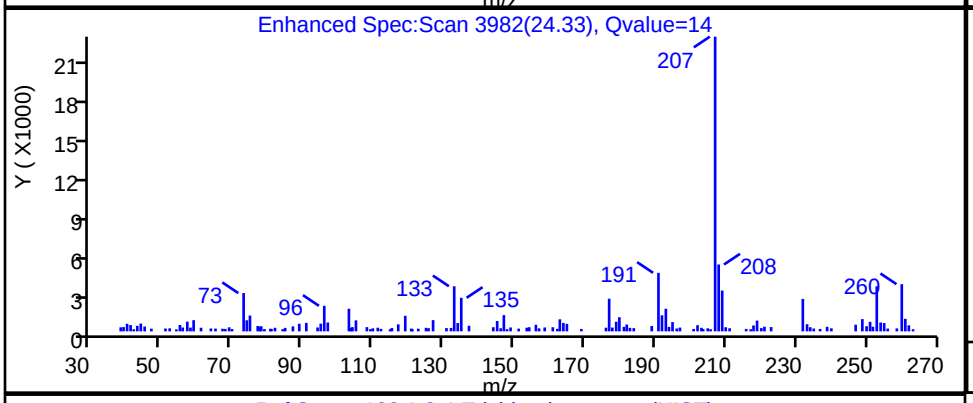
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

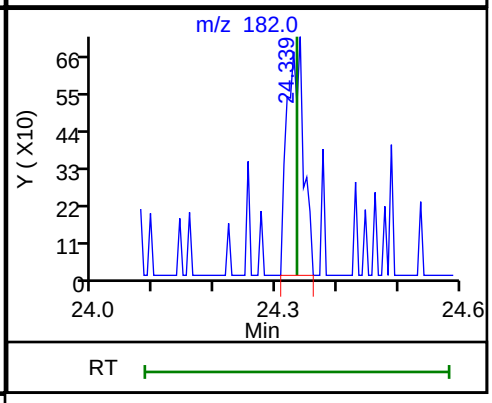
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

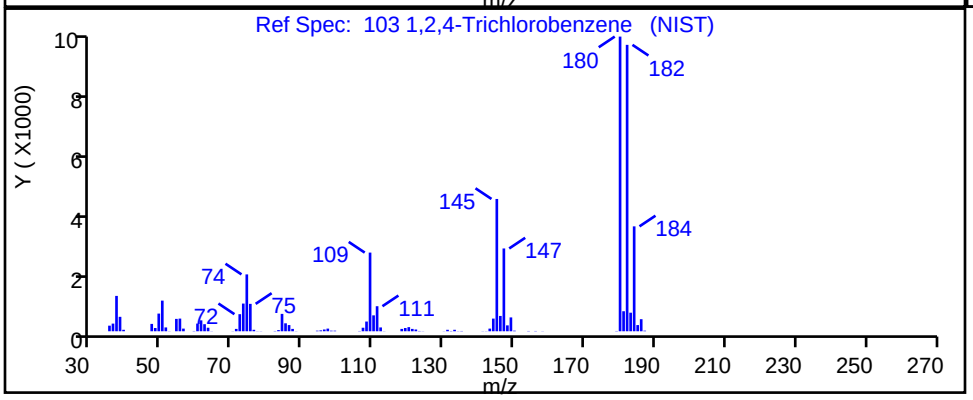
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.33 | 180.00 | 2059 | 0.015942 |
| 24.34 | 182.00 | 1300 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

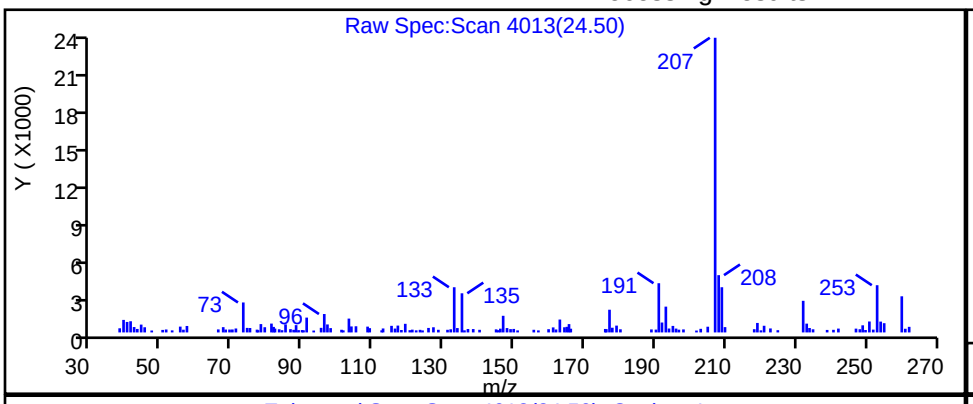
User Disabled Compound Report

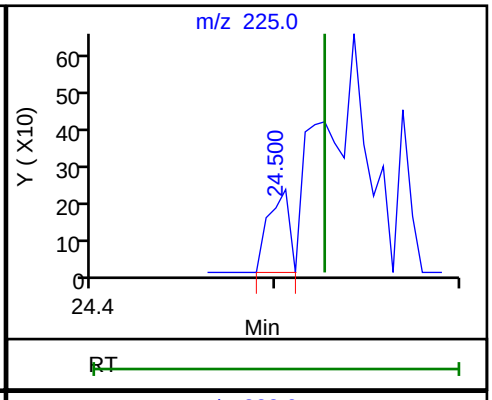
TestAmerica Burlington

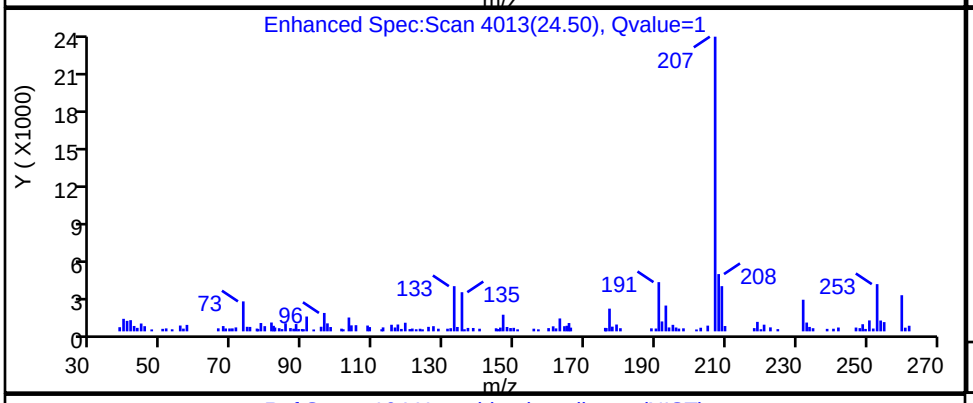
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D | | | | |
| Injection Date: | 06-Dec-2018 06:01:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-4 | Lab Sample ID: | 200-46353-4 | | |
| Client ID: | IA-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 20 | Worklist Smp#: | 20 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

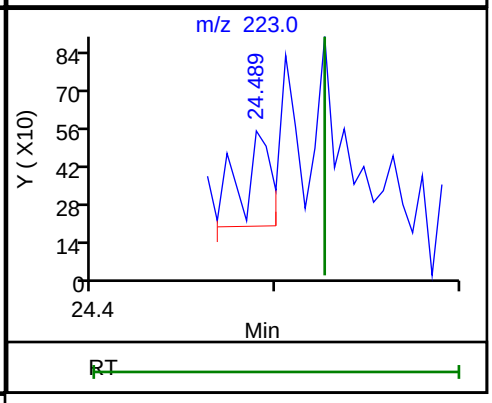
## 104 Hexachlorobutadiene, CAS: 87-68-3

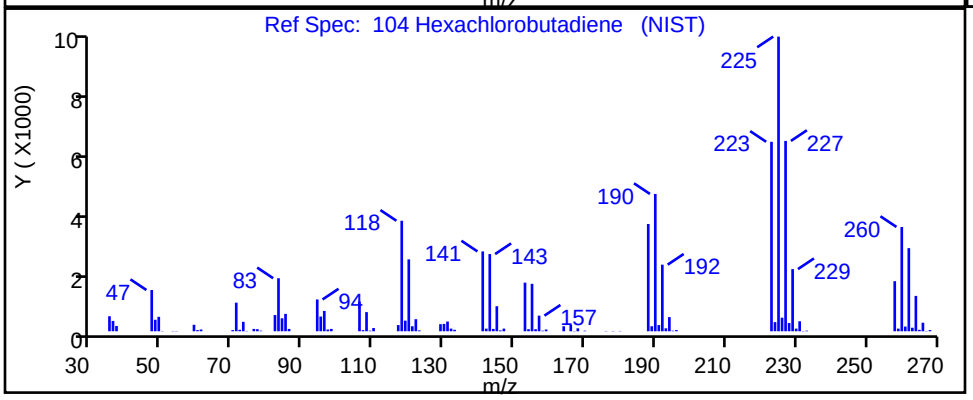
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.50 | 225.00 | 179 | 0.001393 |
| 24.49 | 223.00 | 401 | |

Reviewer: guazzonig, 06-Dec-2018 11:57:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 | Lab Sample ID: 200-46353-5

Matrix: Air | Lab File ID: 200-33531-021.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.51 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 5.5 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 4.0 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 11 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.77 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.4 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.28 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.046 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.30 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120  Lab Sample ID: 200-46353-5

Matrix: Air  Lab File ID: 200-33531-021.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.21 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.92 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 Lab Sample ID: 200-46353-5

Matrix: Air Lab File ID: 200-33531-021.D

Analysis Method: TO-15 Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 | Lab Sample ID: 200-46353-5

Matrix: Air | Lab File ID: 200-33531-021.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 11 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 9.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 26 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 2.7 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 4.0 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.95 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.29 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.97 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120  Lab Sample ID: 200-46353-5

Matrix: Air  Lab File ID: 200-33531-021.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.87 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.5 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120  Lab Sample ID: 200-46353-5

Matrix: Air  Lab File ID: 200-33531-021.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D
Lims ID: 200-46353-A-5
Client ID: IA-4_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 06:51:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-021
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:13:56 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: guazzonig Date: 06-Dec-2018 13:34:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.153 | -0.011 | 99 | 109811 | 0.5088 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.179 | -0.005 | 95 | 36289 | 0.3950 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | ND | MU |
| 5 Chloromethane | 50 | 3.454 | 3.463 | -0.011 | 98 | 232586 | 5.54 | |
| 6 Butane | 43 | 3.604 | 3.598 | 0.000 | 98 | 228063 | 4.03 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | |
| 8 Butadiene | 54 | | 3.711 | | | | ND | MU |
| 10 Bromomethane | 94 | 4.208 | 4.206 | 0.000 | 13 | 2061 | 0.0353 | |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | MU |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.754 | -0.001 | 99 | 37035 | 0.2171 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599 | 5.599 | -0.006 | 92 | 6919 | 0.0576 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.851 | 5.853 | -0.005 | 99 | 487976 | 10.8 | |
| 23 Carbon disulfide | 76 | 6.001 | 6.001 | -0.016 | 93 | 7399 | 0.0544 | M |
| 24 Isopropyl alcohol | 45 | 6.113 | 6.093 | 0.016 | 99 | 71756 | 1.44 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | Ua |
| 27 Methylene Chloride | 49 | 6.546 | 6.552 | -0.011 | 87 | 10404 | 0.2180 | |
| 28 2-Methyl-2-propanol | 59 | | 6.771 | | | | ND | U |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | U |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | 7.284 | 7.275 | 0.005 | 88 | 39449 | 0.7724 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.788 | 0.000 | 100 | 21865 | 1.35 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.152 | 0.000 | 75 | 578523 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.232 | 9.210 | 0.022 | 77 | 3447 | 0.1358 | |
| 42 Chloroform | 83 | 9.264 | 9.264 | -0.005 | 33 | 5179 | 0.0429 | M |
| 43 Cyclohexane | 84 | 9.505 | 9.515 | -0.026 | 92 | 14098 | 0.2760 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.778 | 0.000 | 72 | 6058 | 0.0458 | |
| 46 Isooctane | 57 | 10.189 | 10.190 | -0.006 | 90 | 33766 | 0.1998 | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | 10.211 | 10.216 | -0.005 | 95 | 36110 | 0.3047 | |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| | 49 n-Heptane | 43 | 10.553 | 10.553 | -0.022 | 91 | 12872 | 0.2111 | |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2225579 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.484 | | | | ND | U |
| | 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | MU |
| | 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | |
| | 65 Toluene | 92 | 14.057 | 14.068 | -0.011 | 95 | 84316 | 0.9207 | |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| | 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 15.138 | 15.143 | -0.005 | 92 | 12688 | 0.1157 | |
| | 69 2-Hexanone | 43 | | 15.507 | | | | ND | MU |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 85 | 2260849 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | 17.181 | 17.187 | -0.001 | 97 | 17510 | 0.0849 | |
| | 78 m-Xylene & p-Xylene | 106 | 17.433 | 17.438 | 0.000 | 0 | 15793 | 0.1889 | |
| | 79 o-Xylene | 106 | 18.283 | 18.294 | -0.011 | 97 | 4332 | 0.0545 | |
| | 80 Styrene | 104 | | 18.337 | | | | ND | U |
| | 81 Bromoform | 173 | | 18.781 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 19.049 | | | | ND | U |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | | 19.846 | | | | ND | U |
| | 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | U |
| | 88 4-Ethyltoluene | 105 | | 20.054 | | | | ND | U |
| | 90 1,3,5-Trimethylbenzene | 105 | | 20.177 | | | | ND | U |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.792 | 20.792 | -0.006 | 36 | 2882 | 0.0145 | M |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| | 95 4-Isopropyltoluene | 119 | | 21.269 | | | | ND | U |
| | 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | | 21.418 | | | | ND | U |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| | 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15GIS_00015 | Amount Added: | 20.00 | Units: mL | Run Reagent |

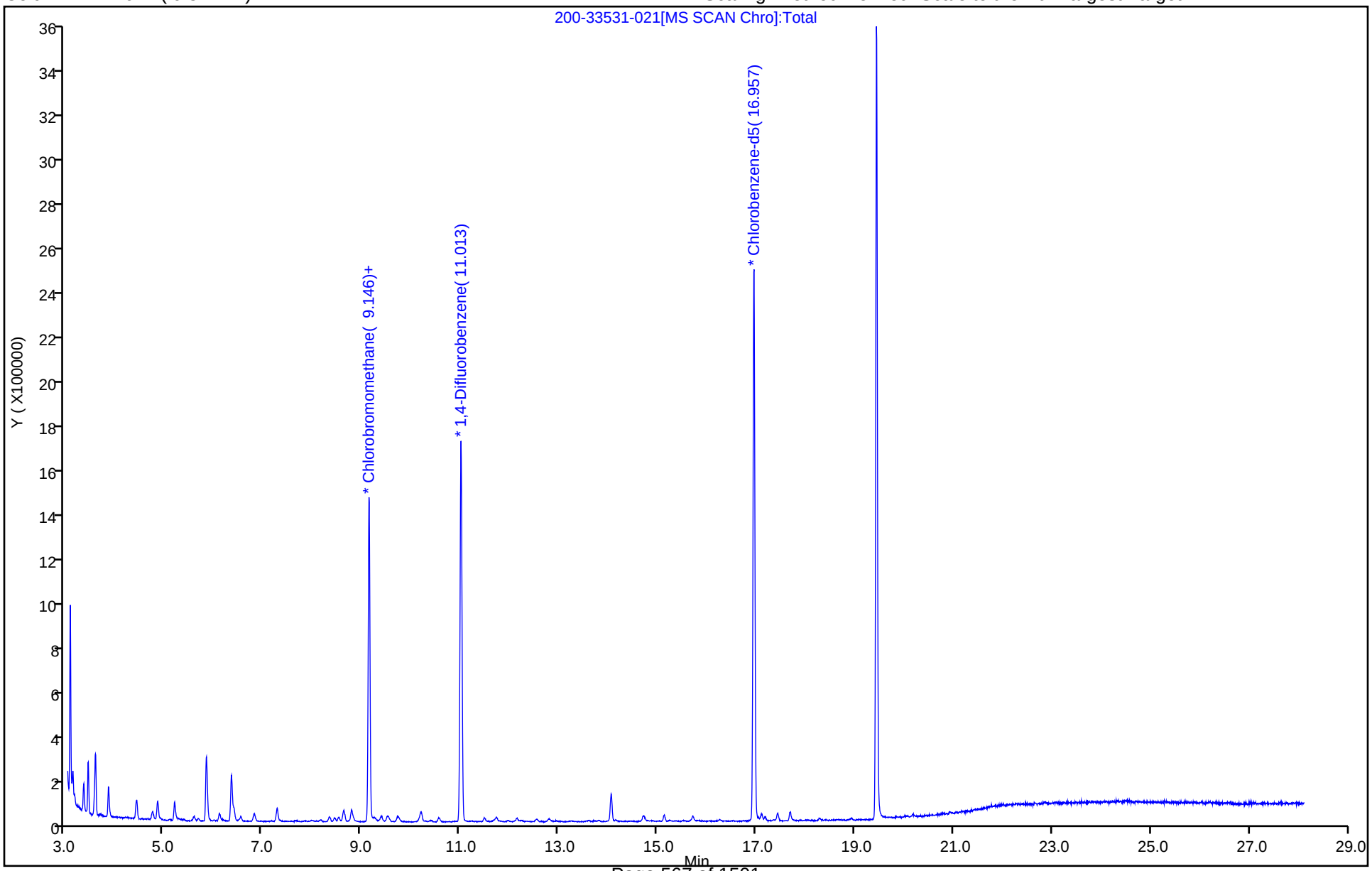
Report Date: 07-Dec-2018 09:14:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | Worklist Smp#: | 21 |
| Client ID: | IA-4_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 21 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



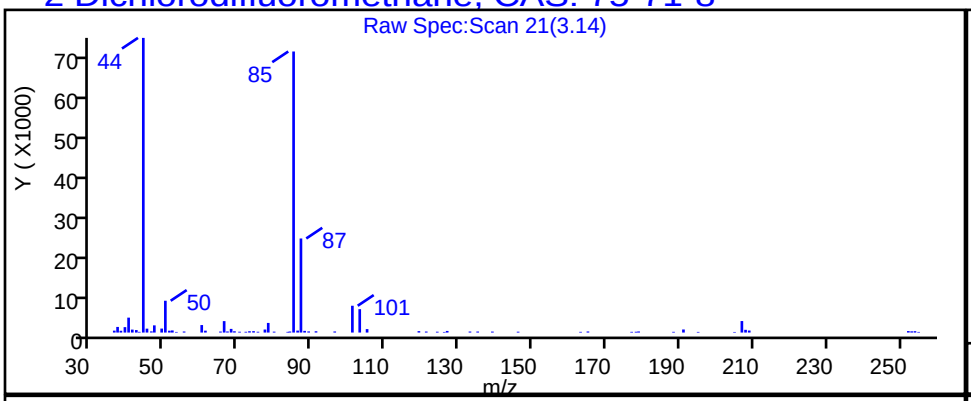
Report Date: 07-Dec-2018 09:14:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

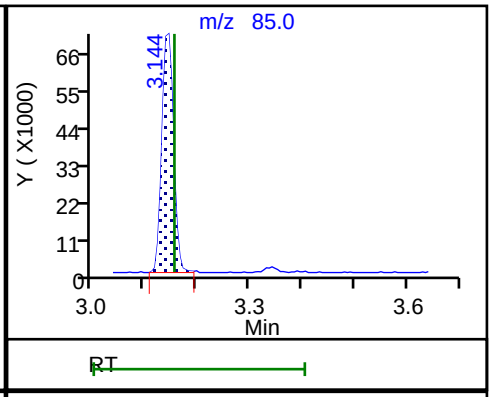
TestAmerica Burlington

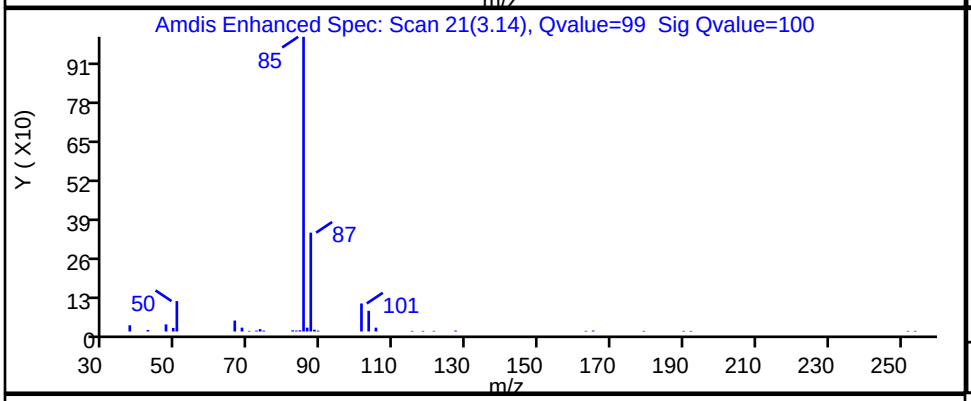
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

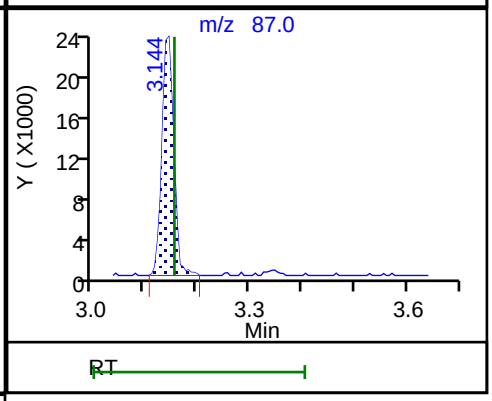
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

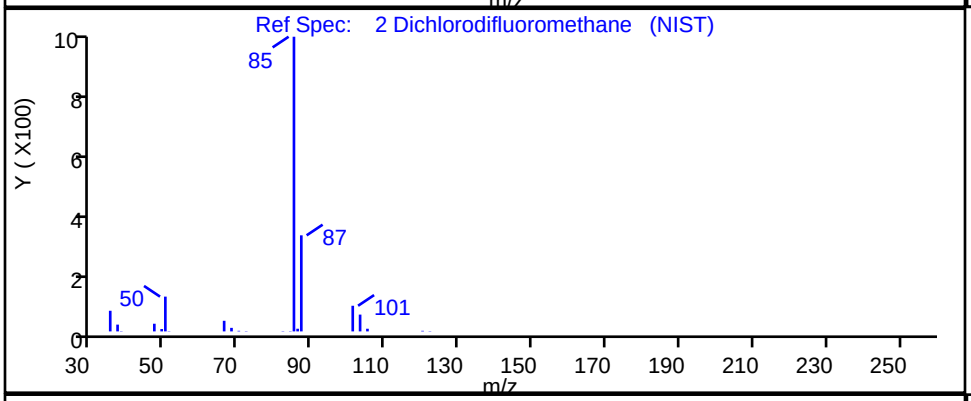
## 2 Dichlorodifluoromethane, CAS: 75-71-8

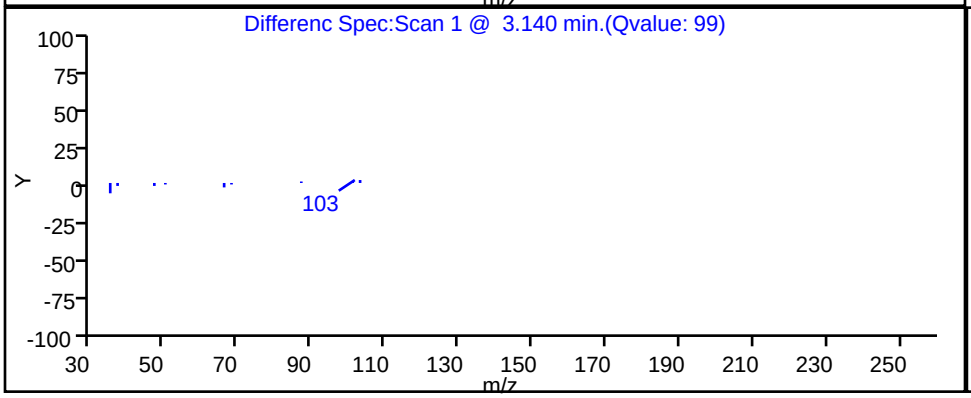


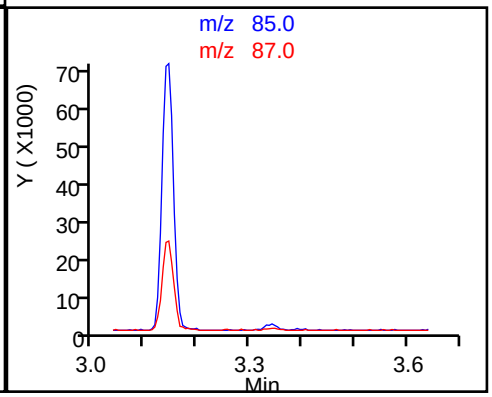



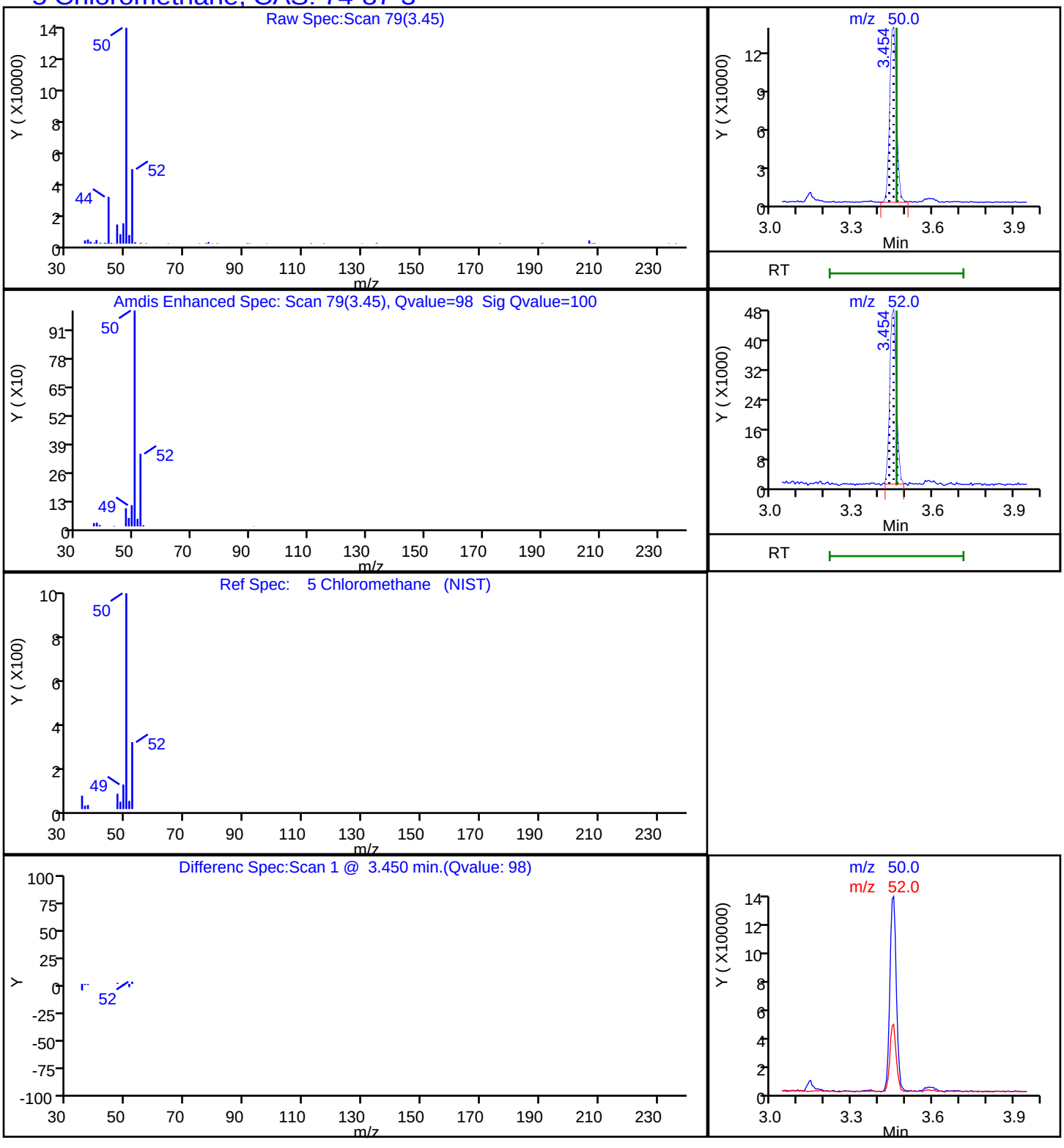
Report Date: 07-Dec-2018 09:14:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 5 Chloromethane, CAS: 74-87-3



Report Date: 07-Dec-2018 09:14:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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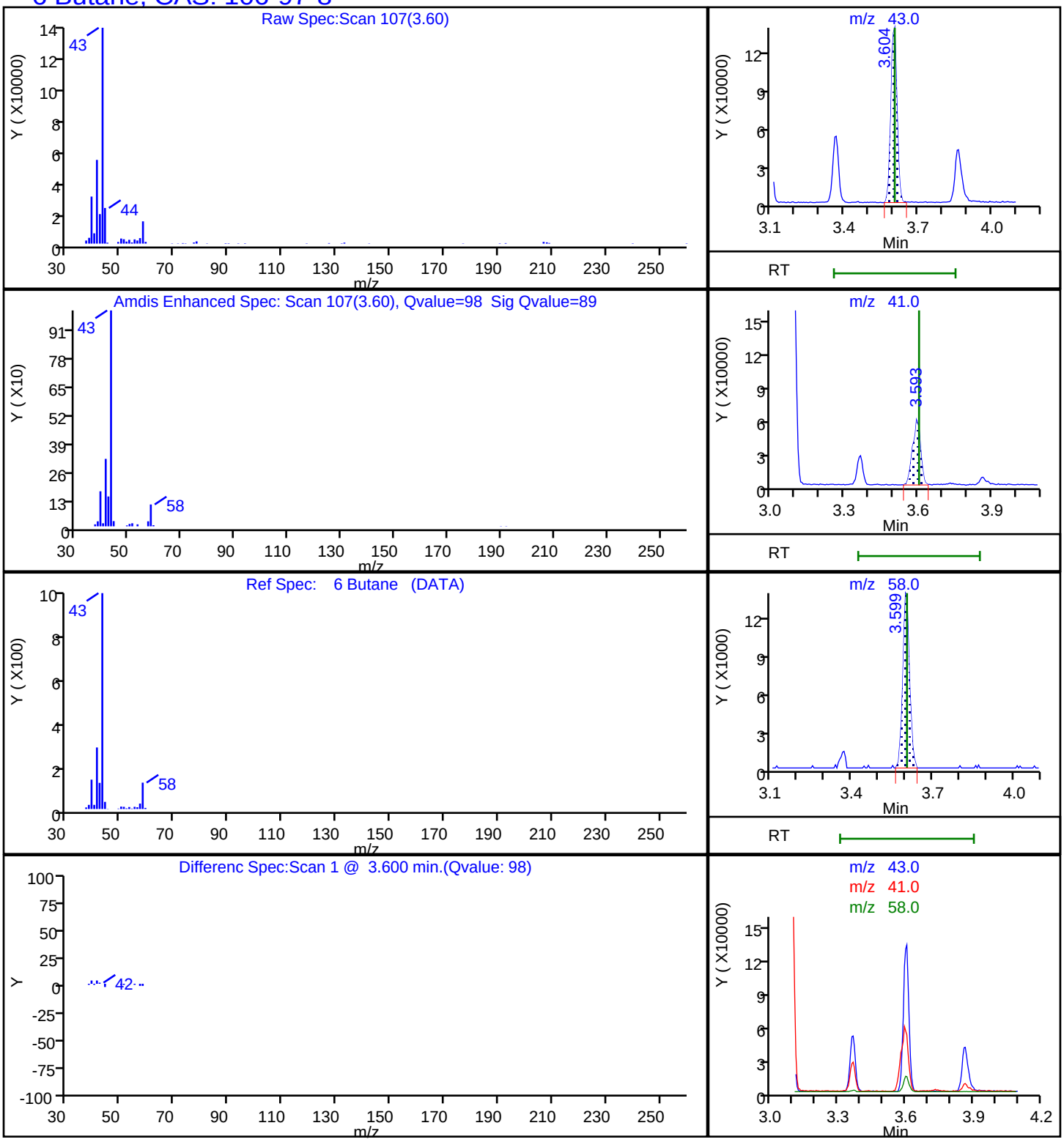
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



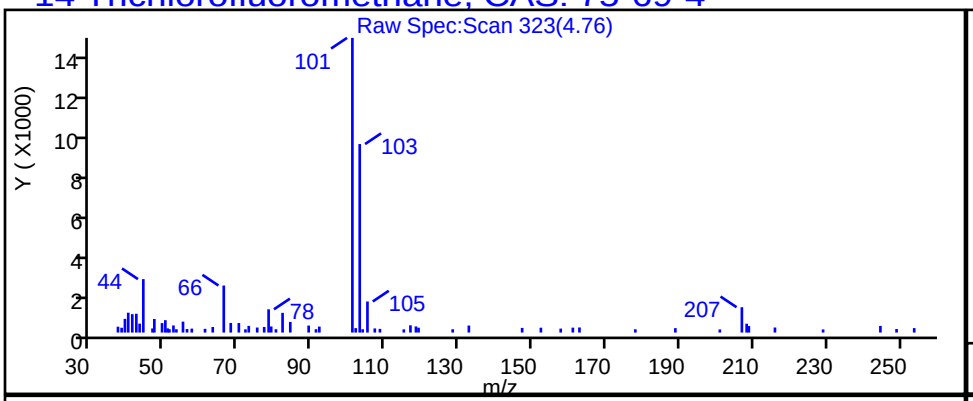
Report Date: 07-Dec-2018 09:14:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

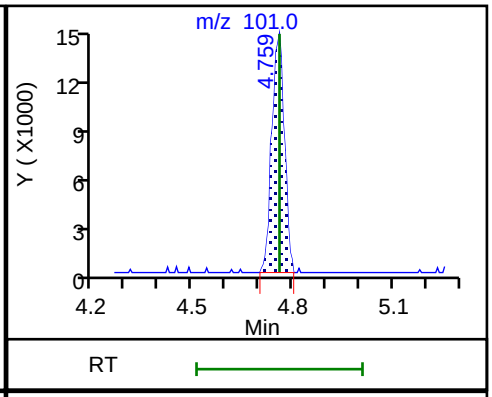
TestAmerica Burlington

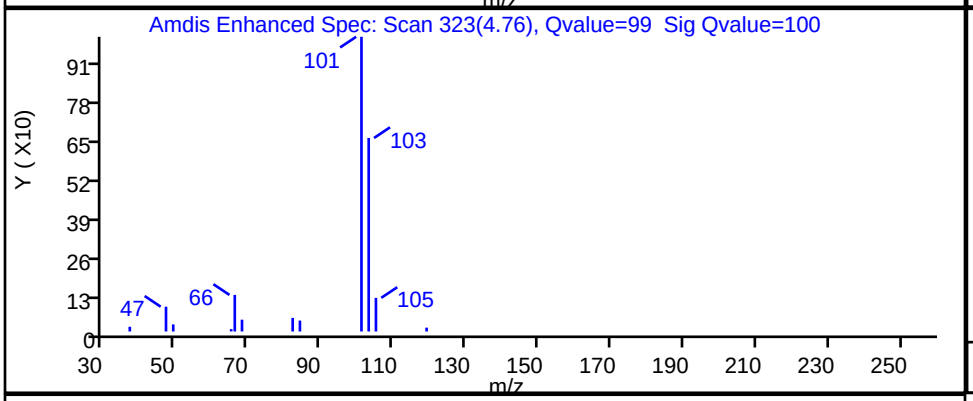
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

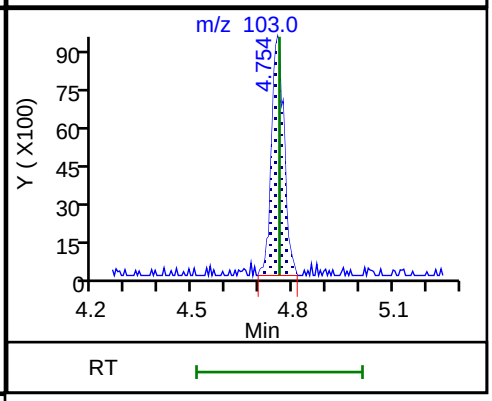
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

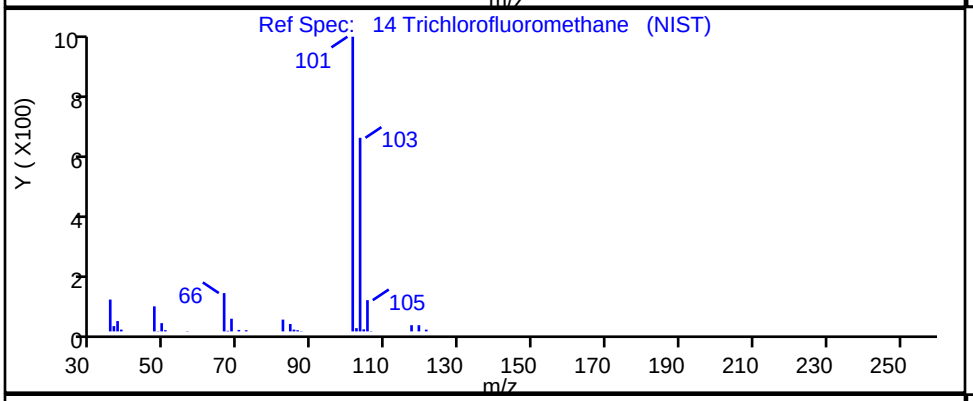
## 14 Trichlorofluoromethane, CAS: 75-69-4

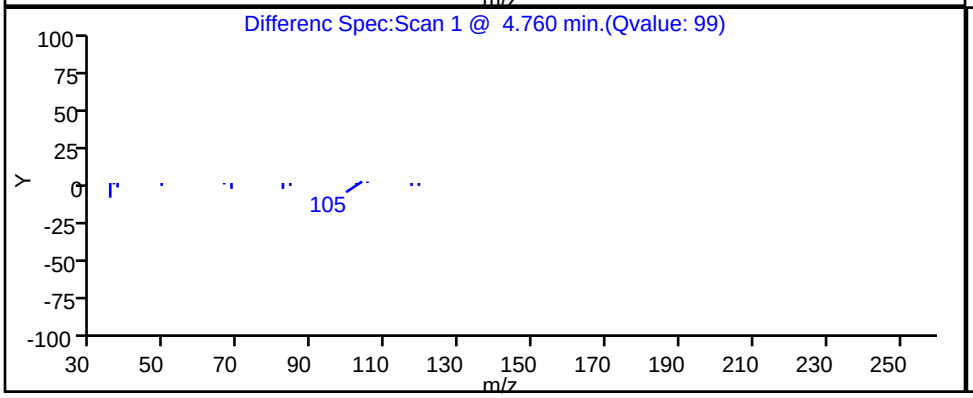


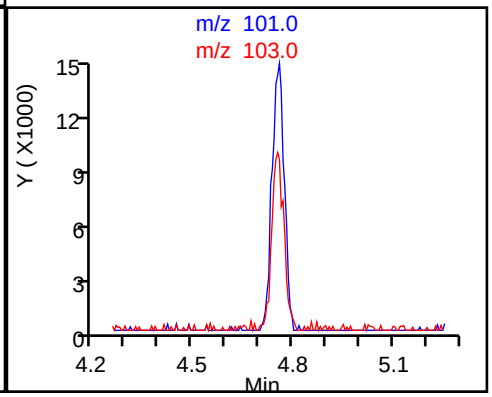



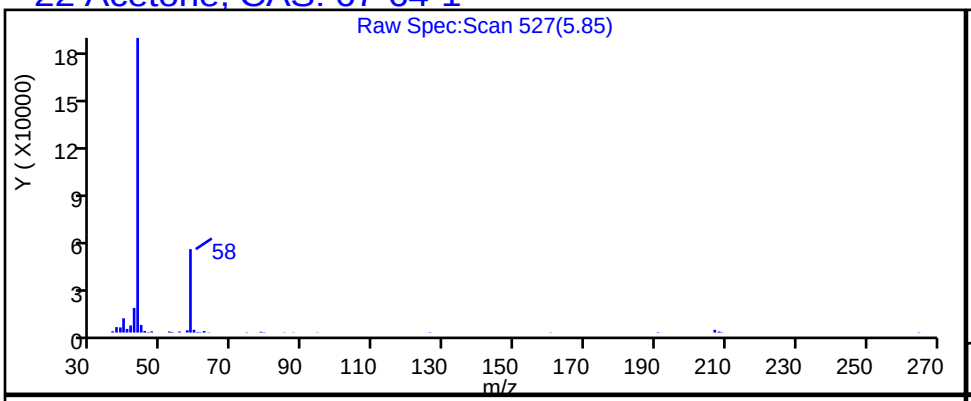
Report Date: 07-Dec-2018 09:14:27 Chrom Revision: 2.3 21-Nov-2018 13:56:44

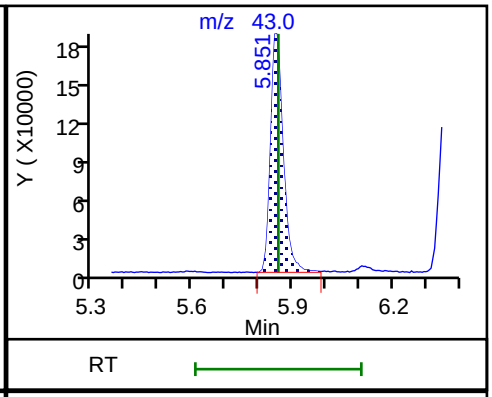
TestAmerica Burlington

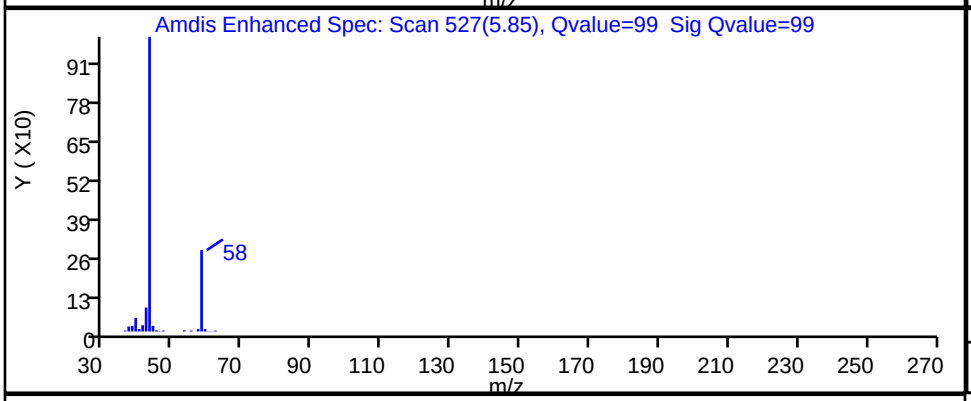
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

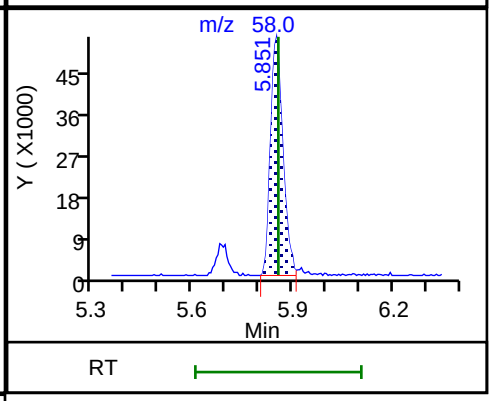
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

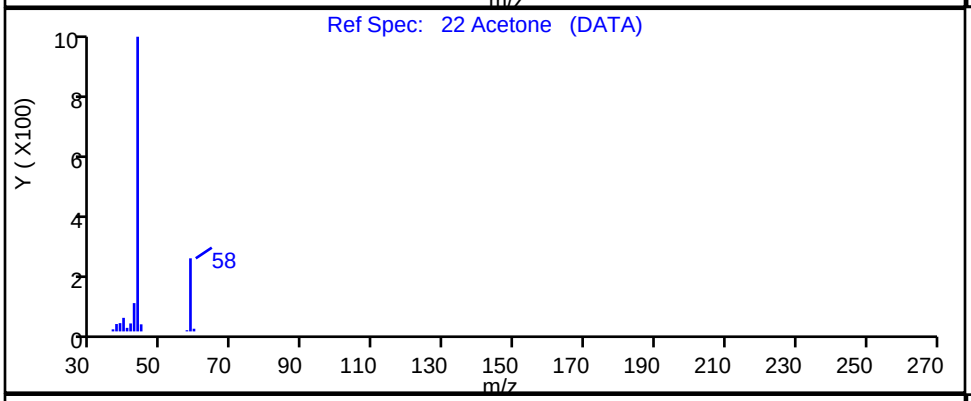
## 22 Acetone, CAS: 67-64-1

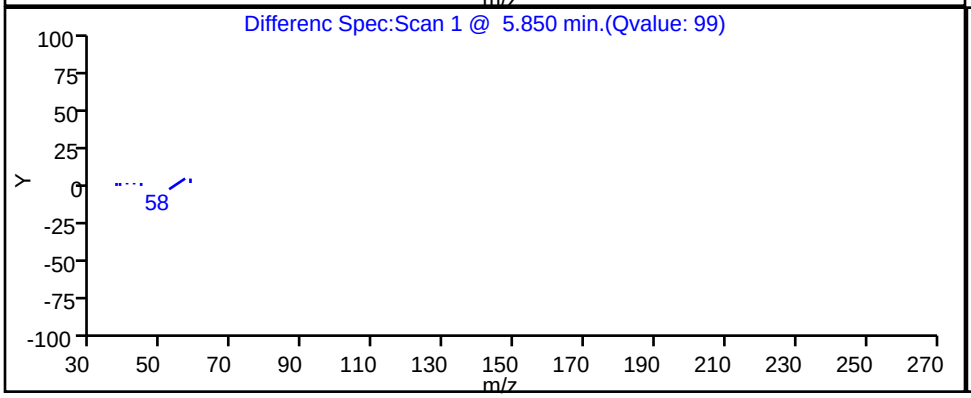


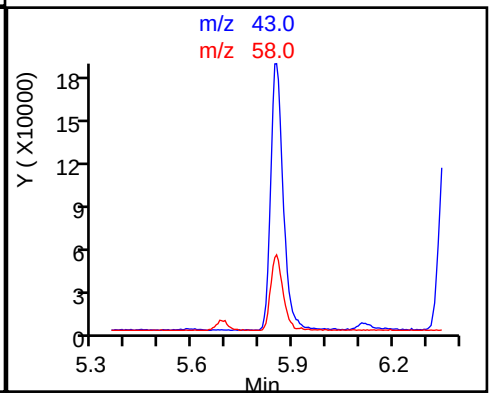



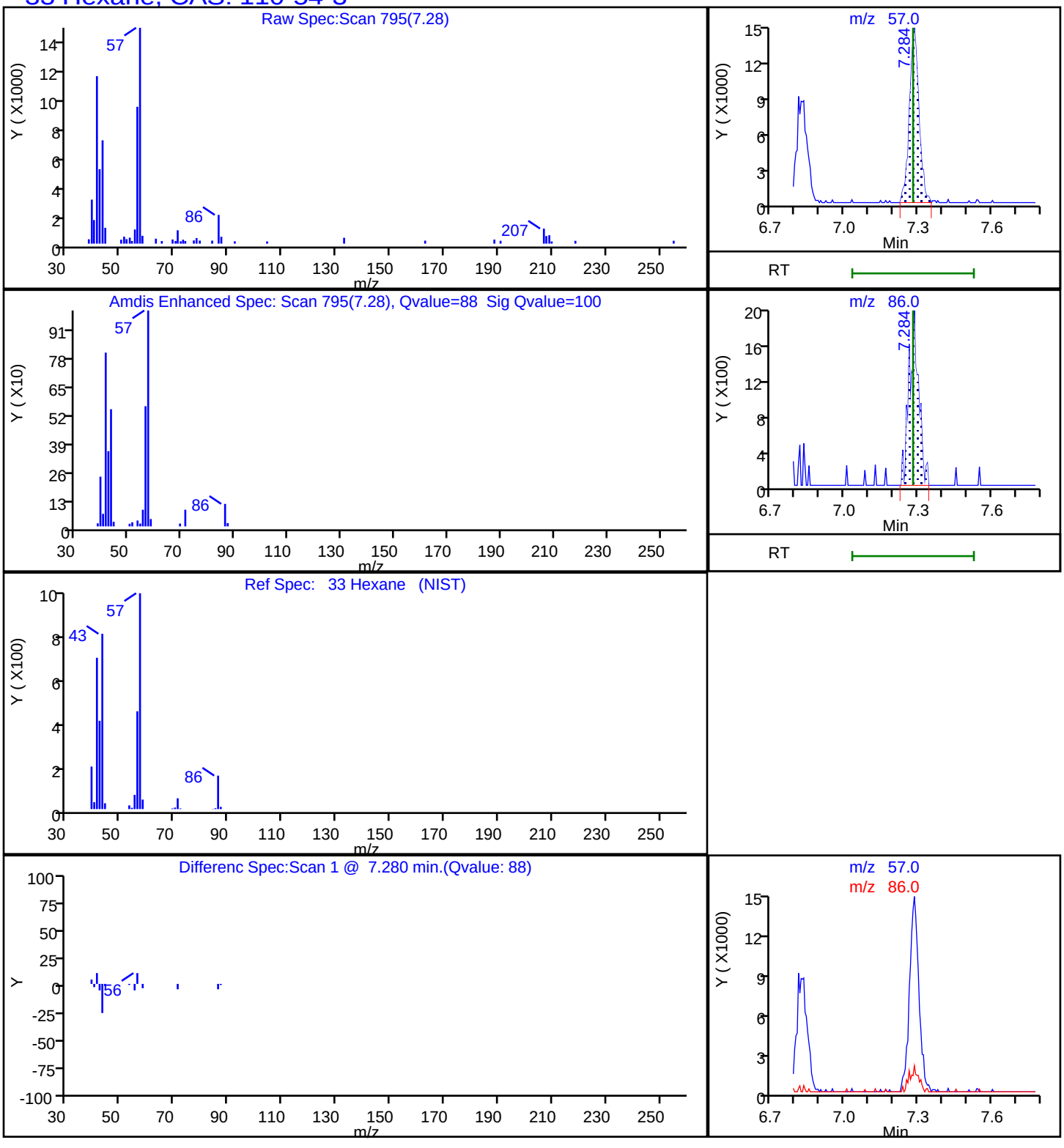
Report Date: 07-Dec-2018 09:14:27 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



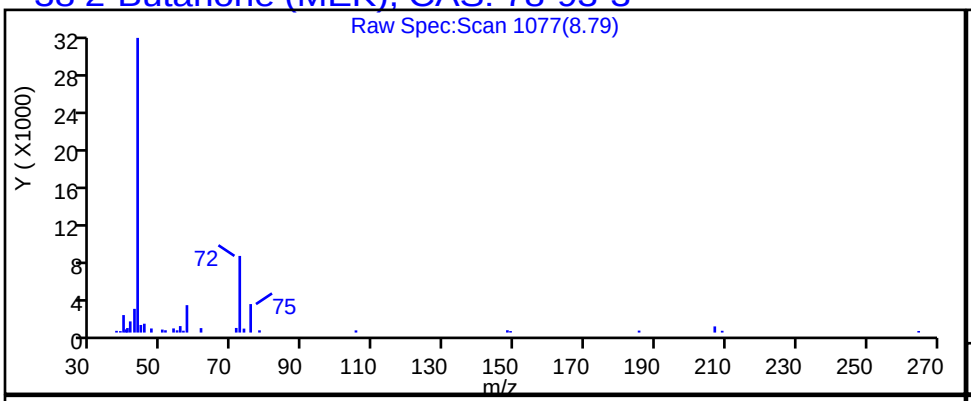
Report Date: 07-Dec-2018 09:14:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

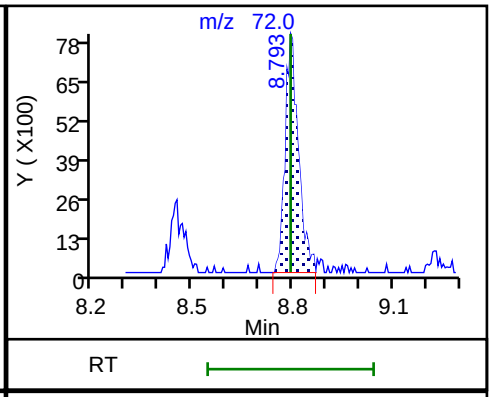
TestAmerica Burlington

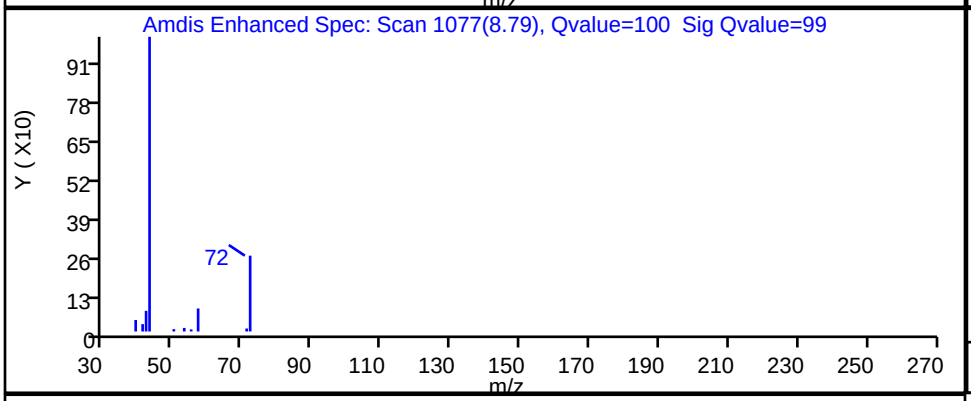
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

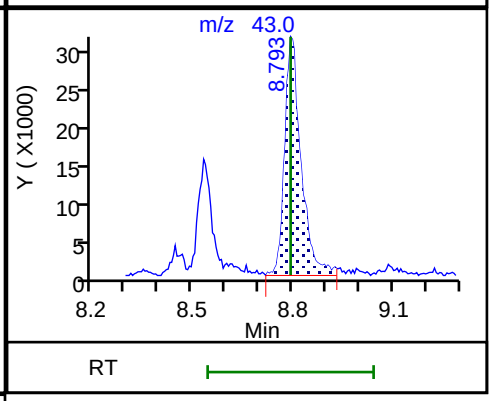
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

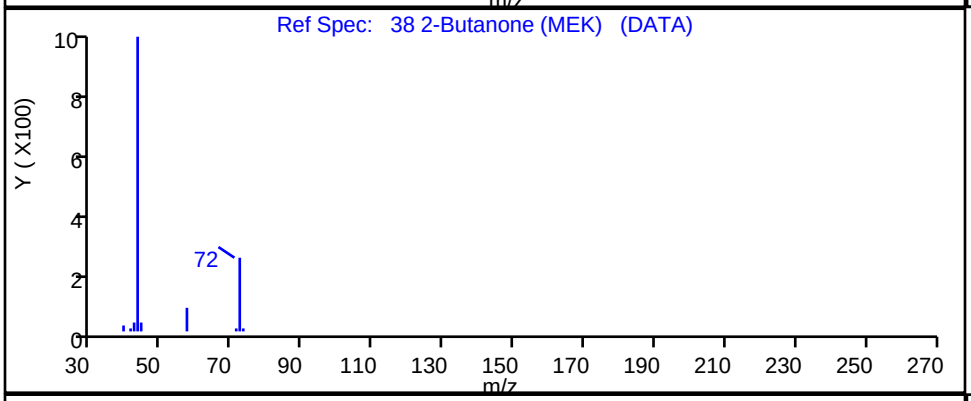
## 38 2-Butanone (MEK), CAS: 78-93-3

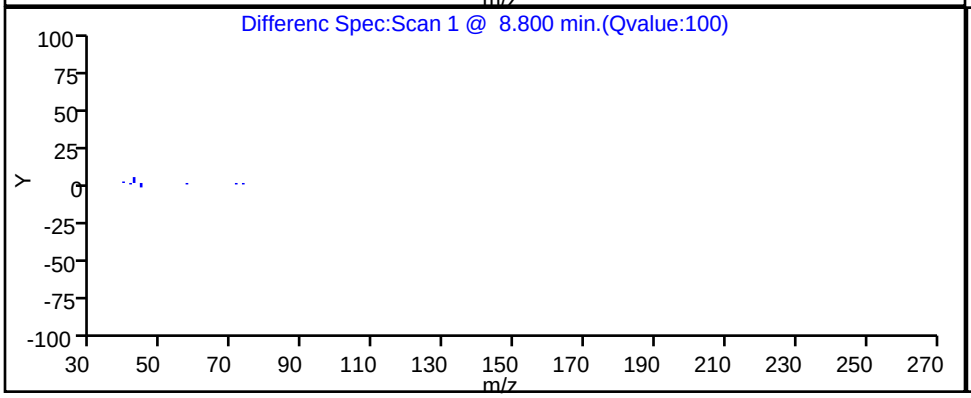


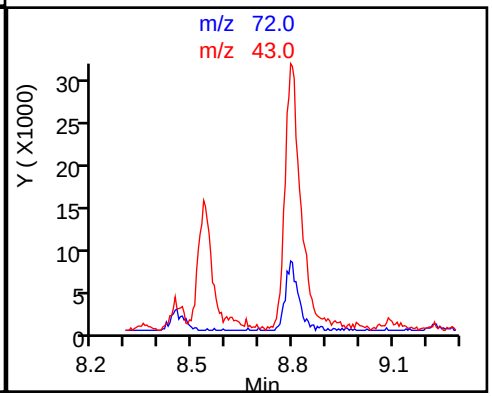



Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
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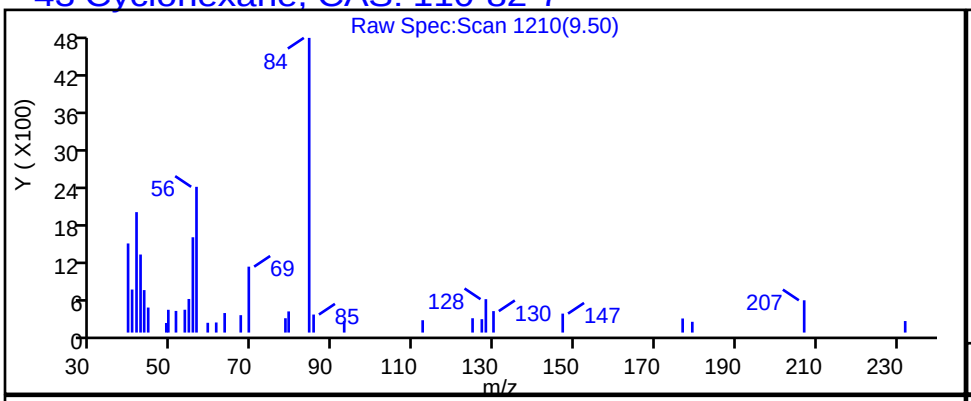
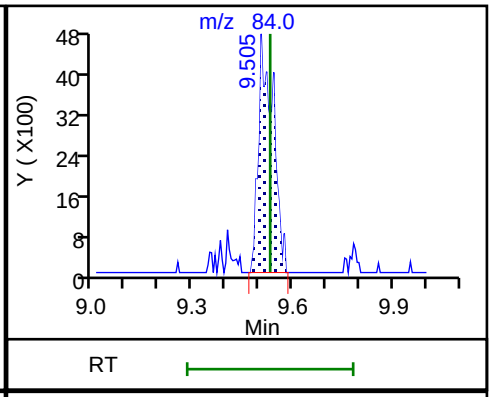
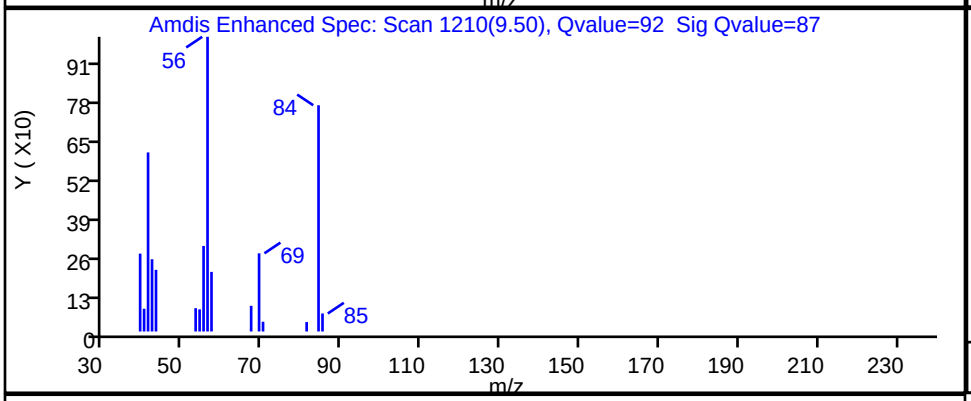
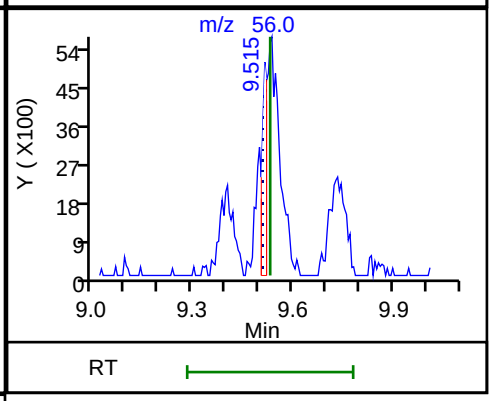
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

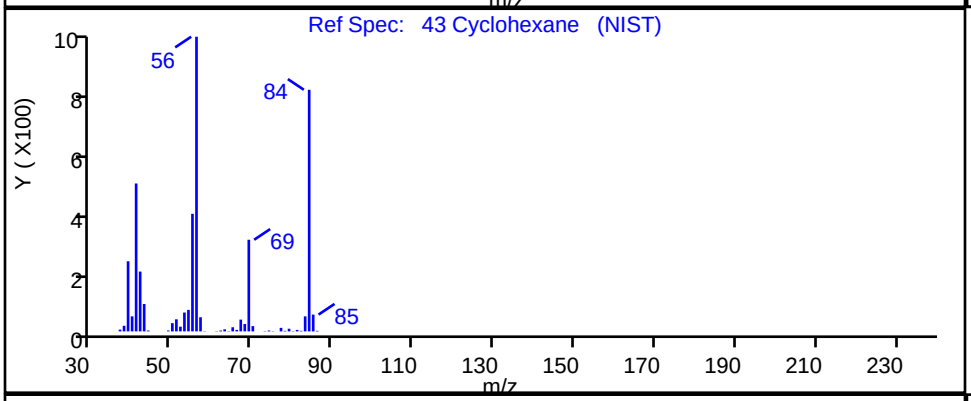
## 43 Cyclohexane, CAS: 110-82-7

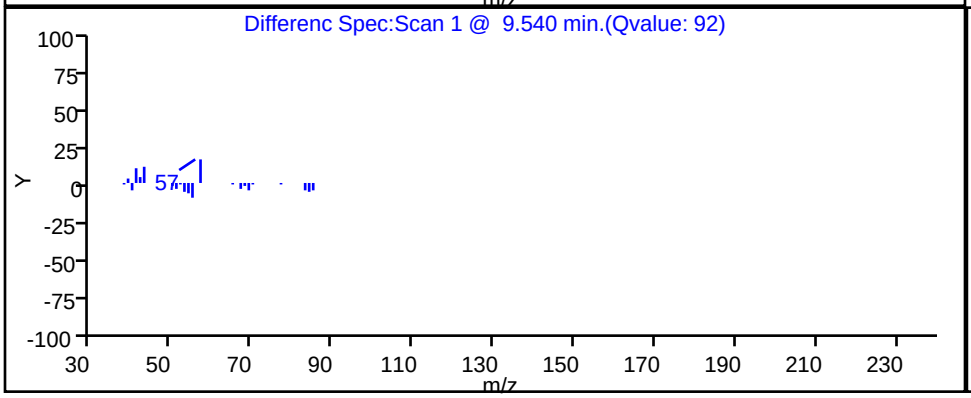


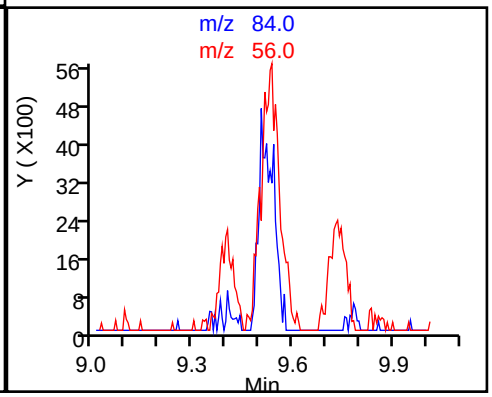



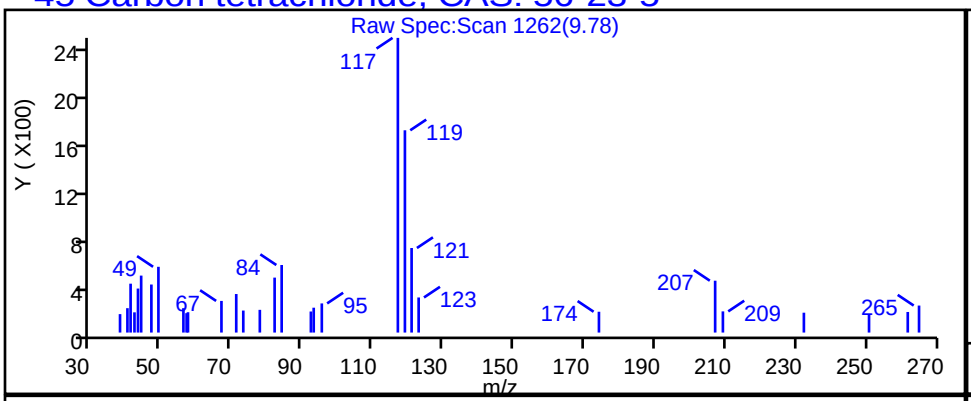
Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

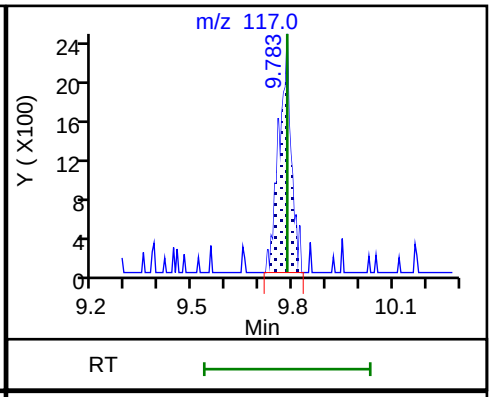
TestAmerica Burlington

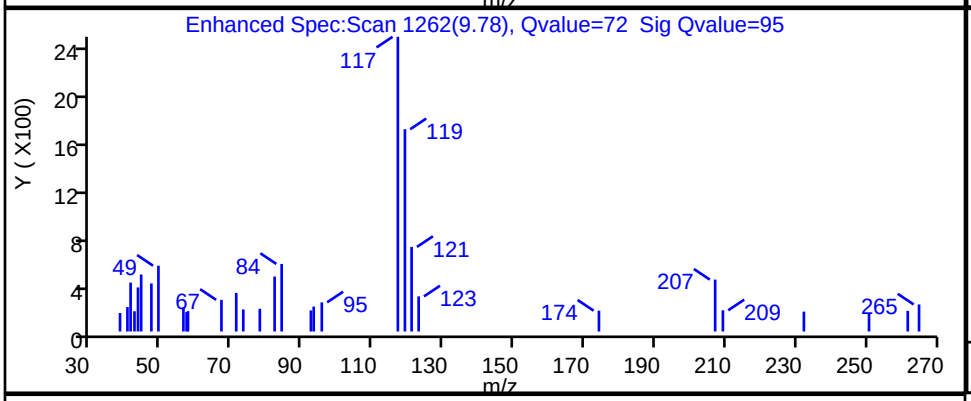
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

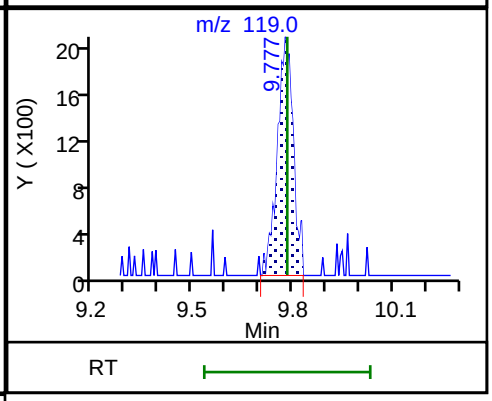
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

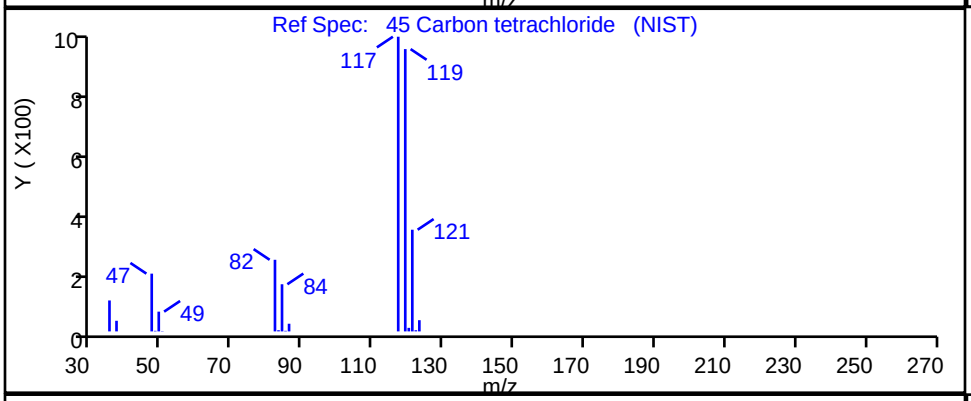
## 45 Carbon tetrachloride, CAS: 56-23-5

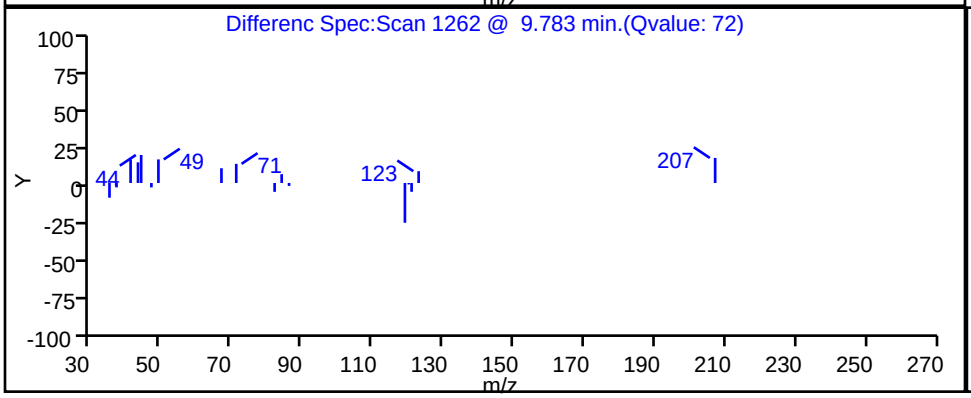


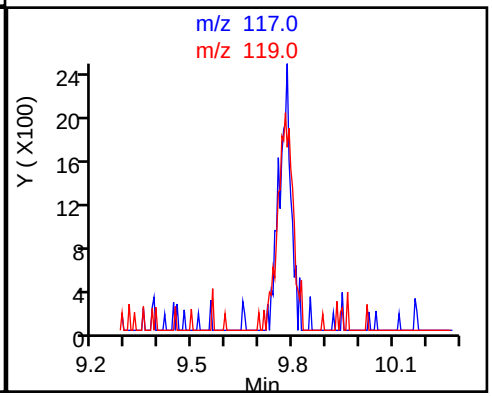



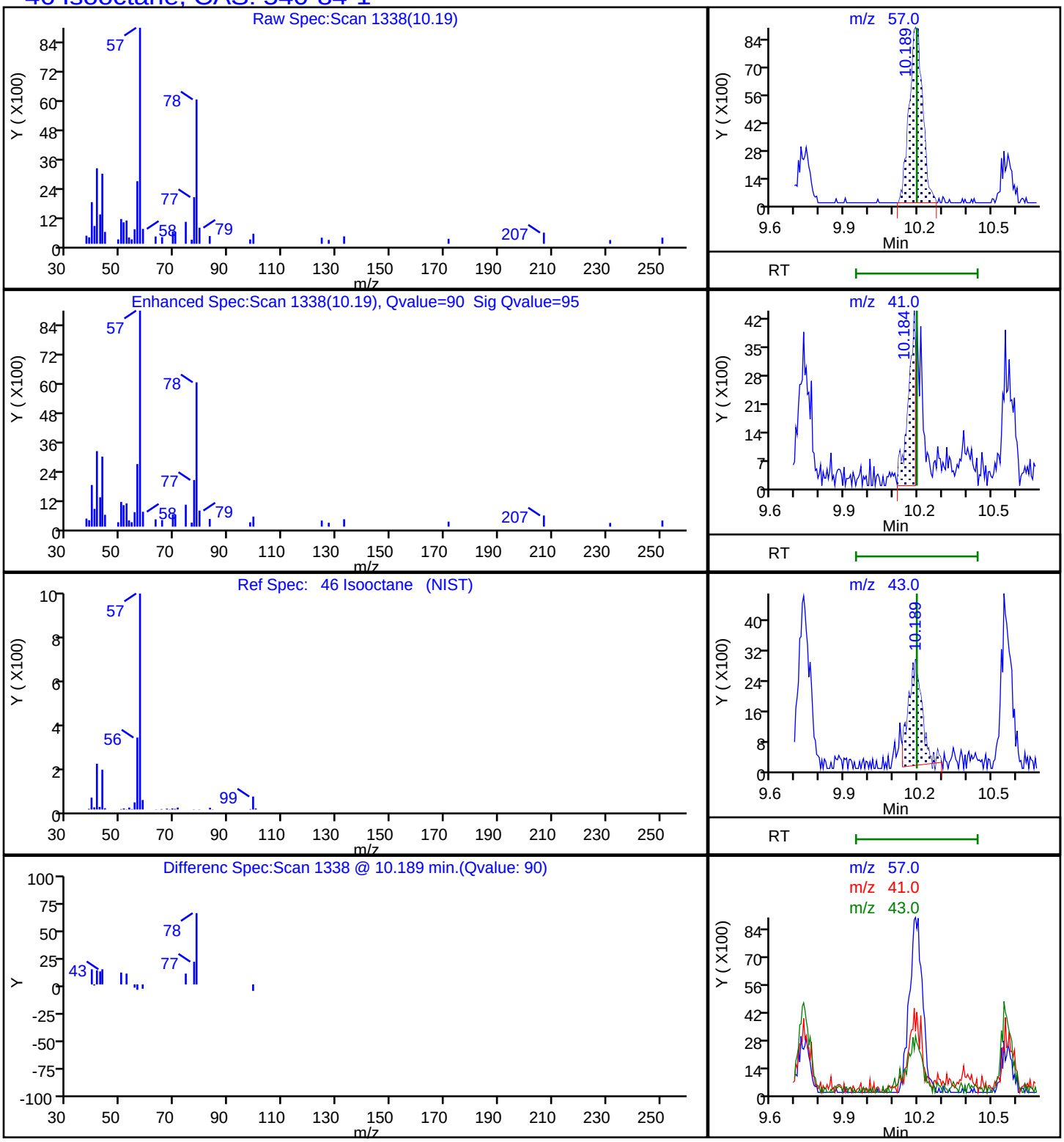
Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1



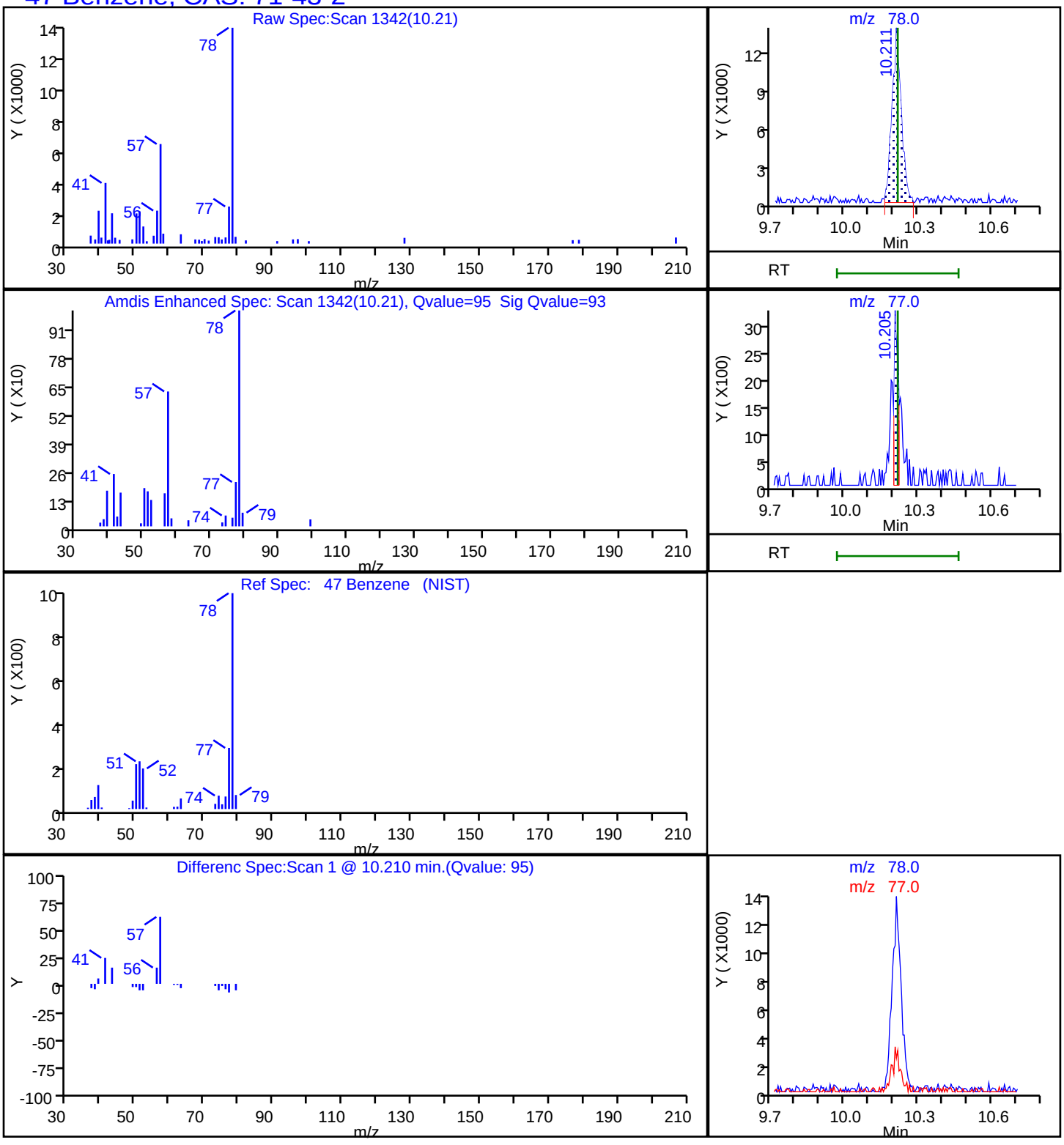
Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



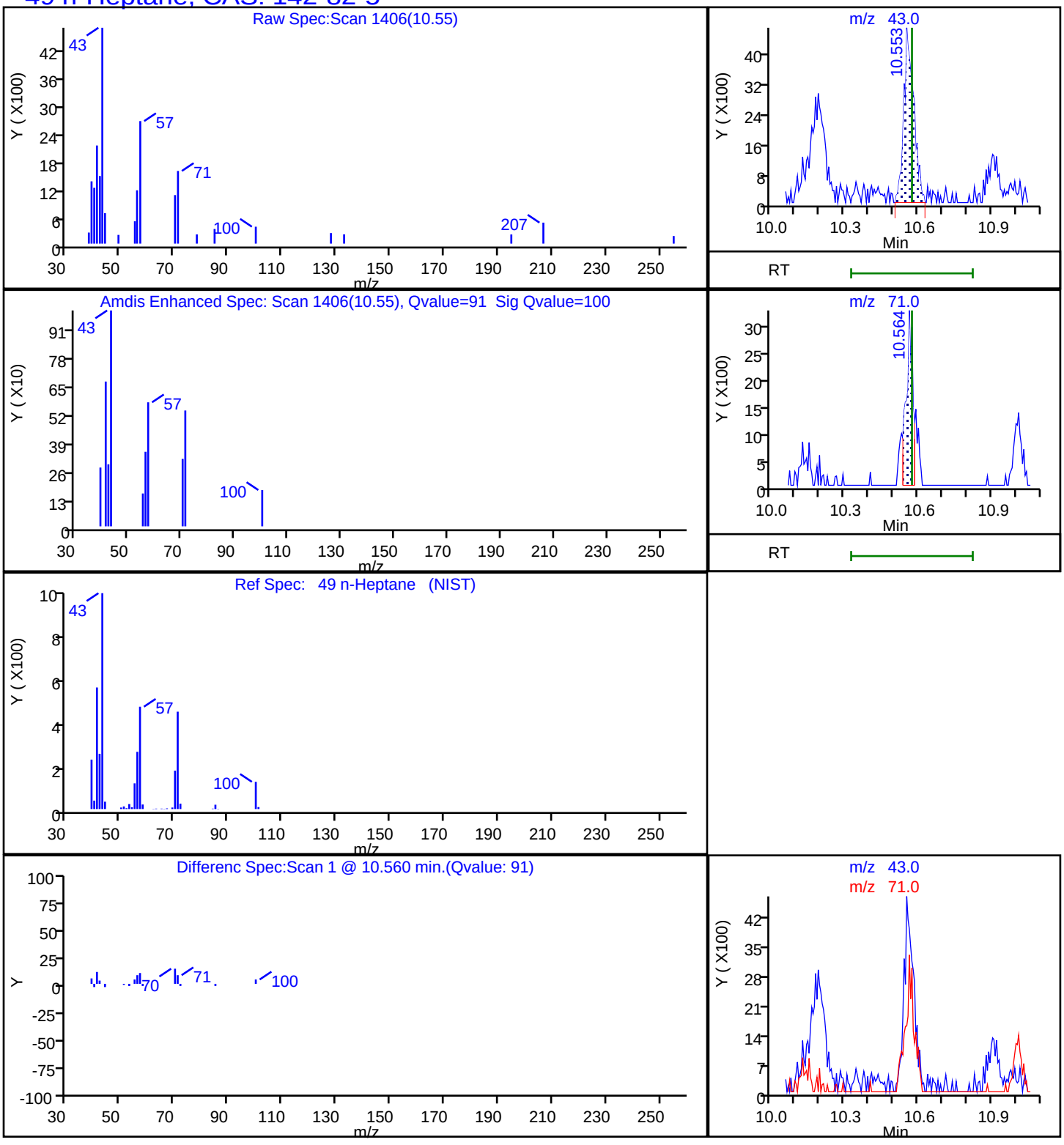
Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



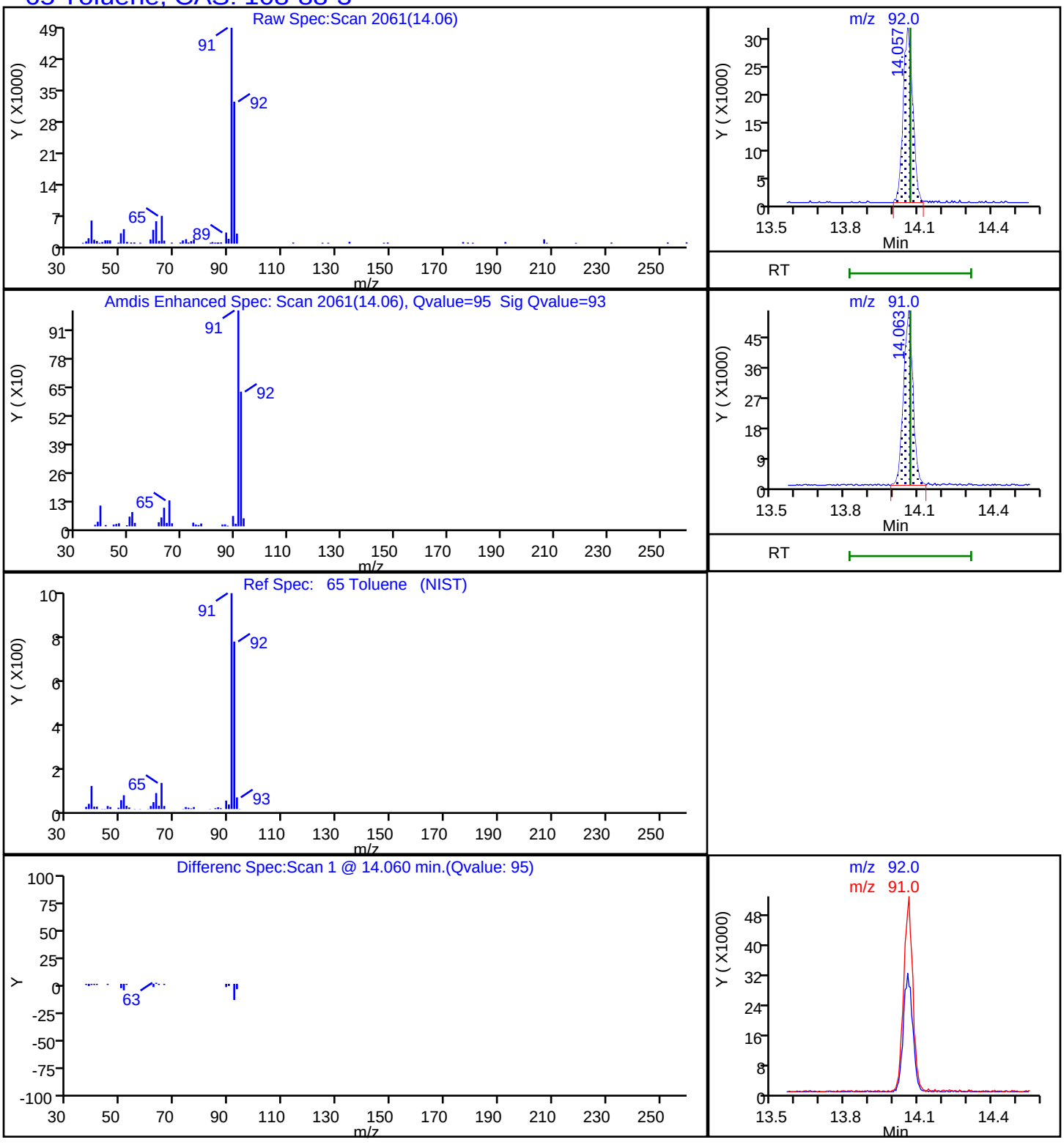
Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



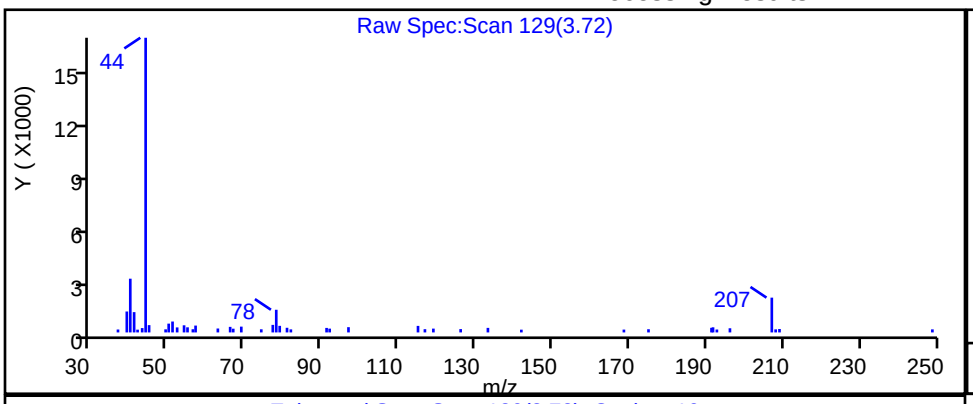
User Disabled Compound Report

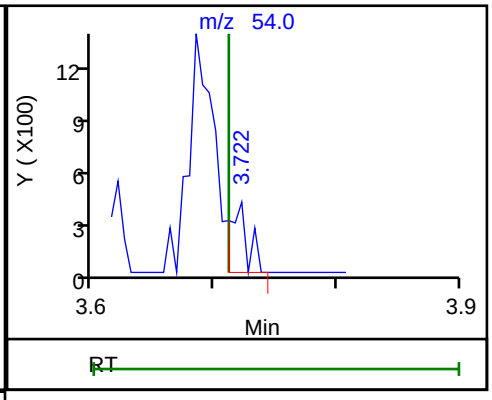
TestAmerica Burlington

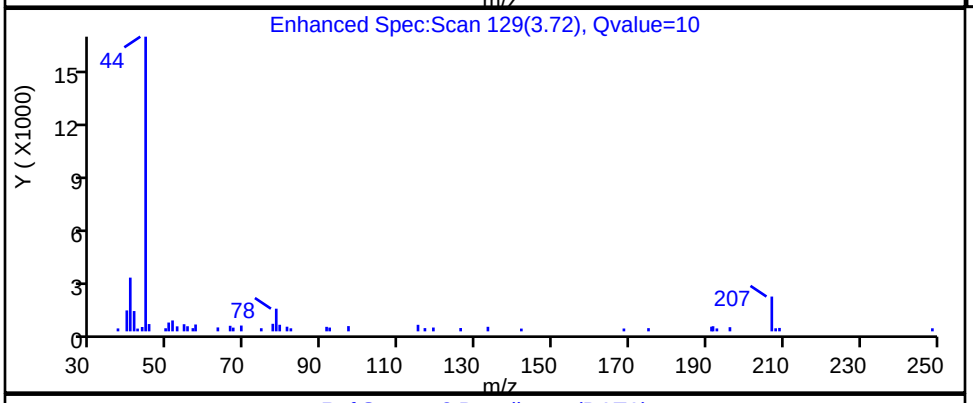
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

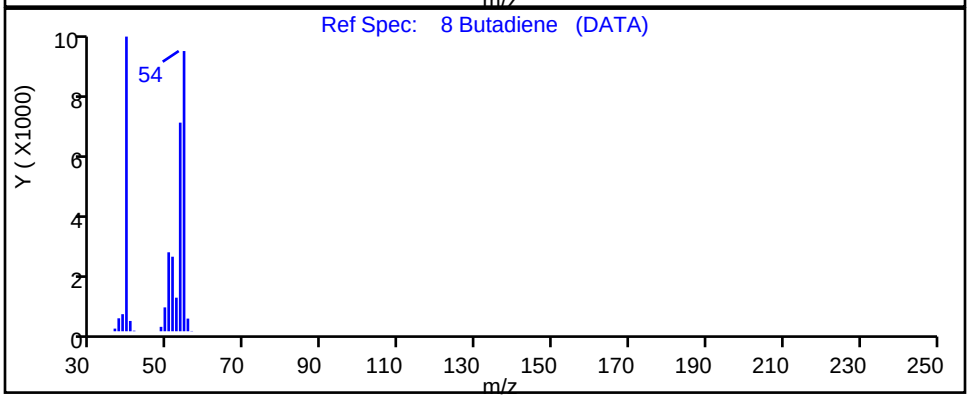
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.72 | 54.00 | 381 | 0.012114 |

Reviewer: bunmaa, 07-Dec-2018 09:07:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

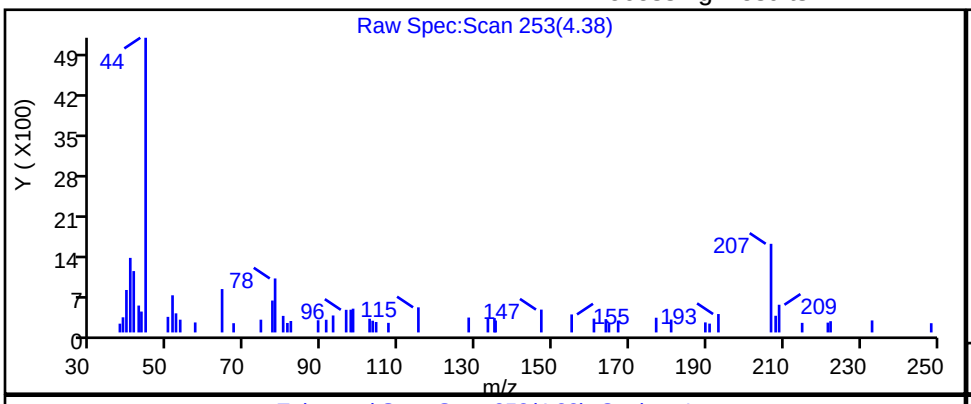
User Disabled Compound Report

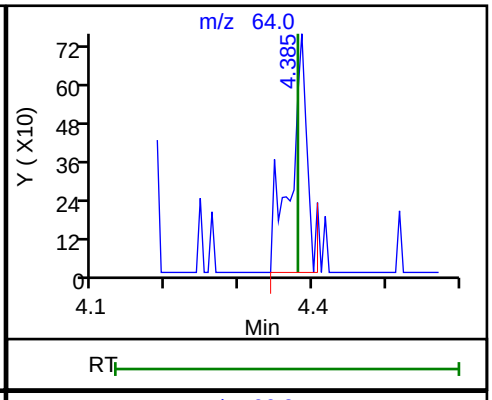
TestAmerica Burlington

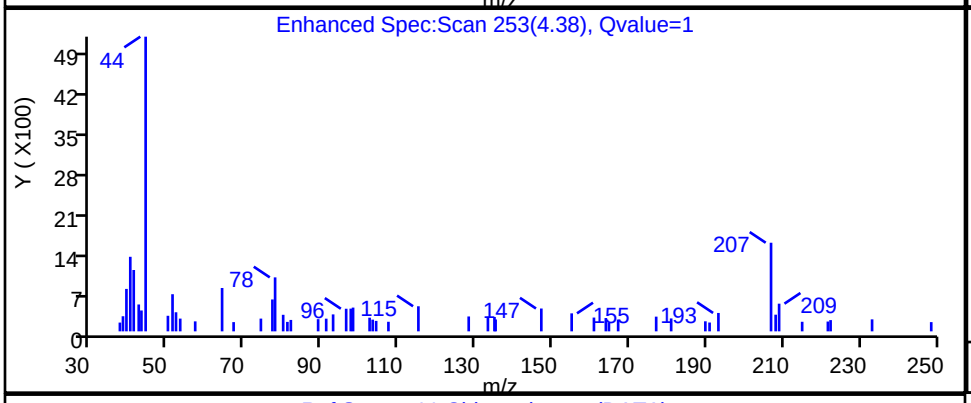
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

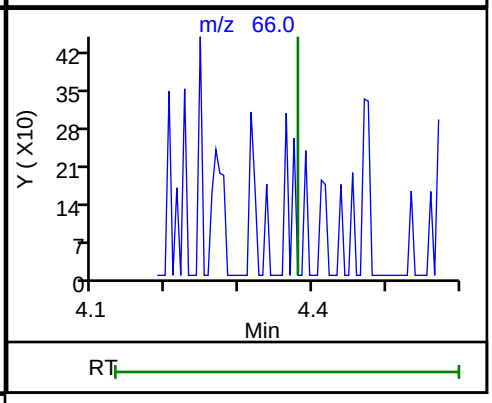
## 11 Chloroethane, CAS: 75-00-3

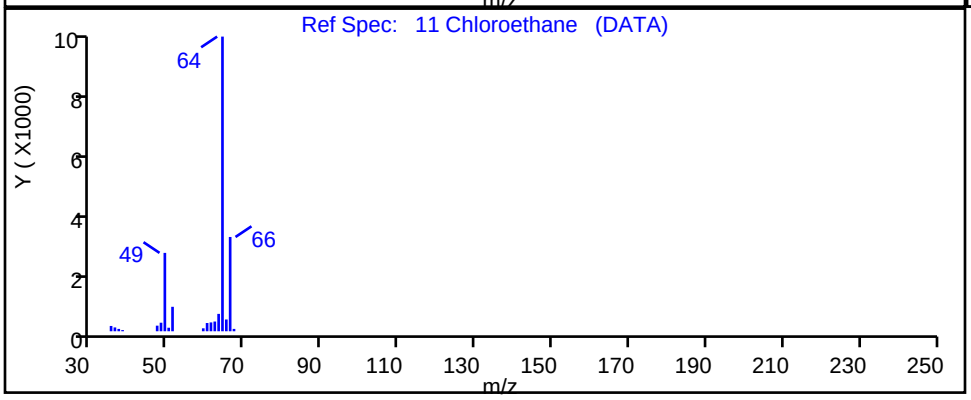
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.38 | 64.00 | 1193 | 0.061323 |
| 4.38 | 66.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:08:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 09:14:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

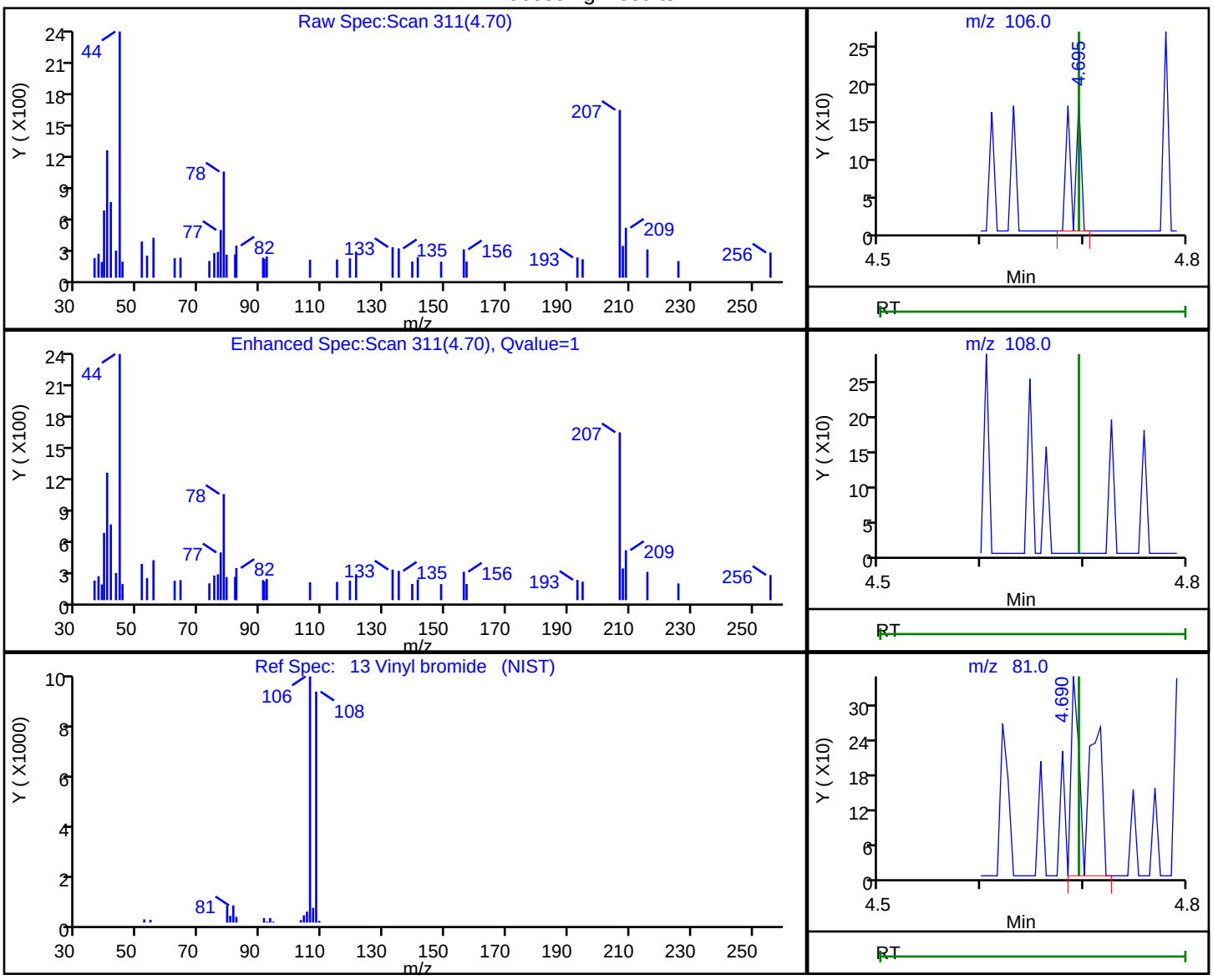
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.70 | 106.00 | 108 | 0.001872 |
| 4.69 | 81.00 | 416 | |
| 4.70 | 108.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:33:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

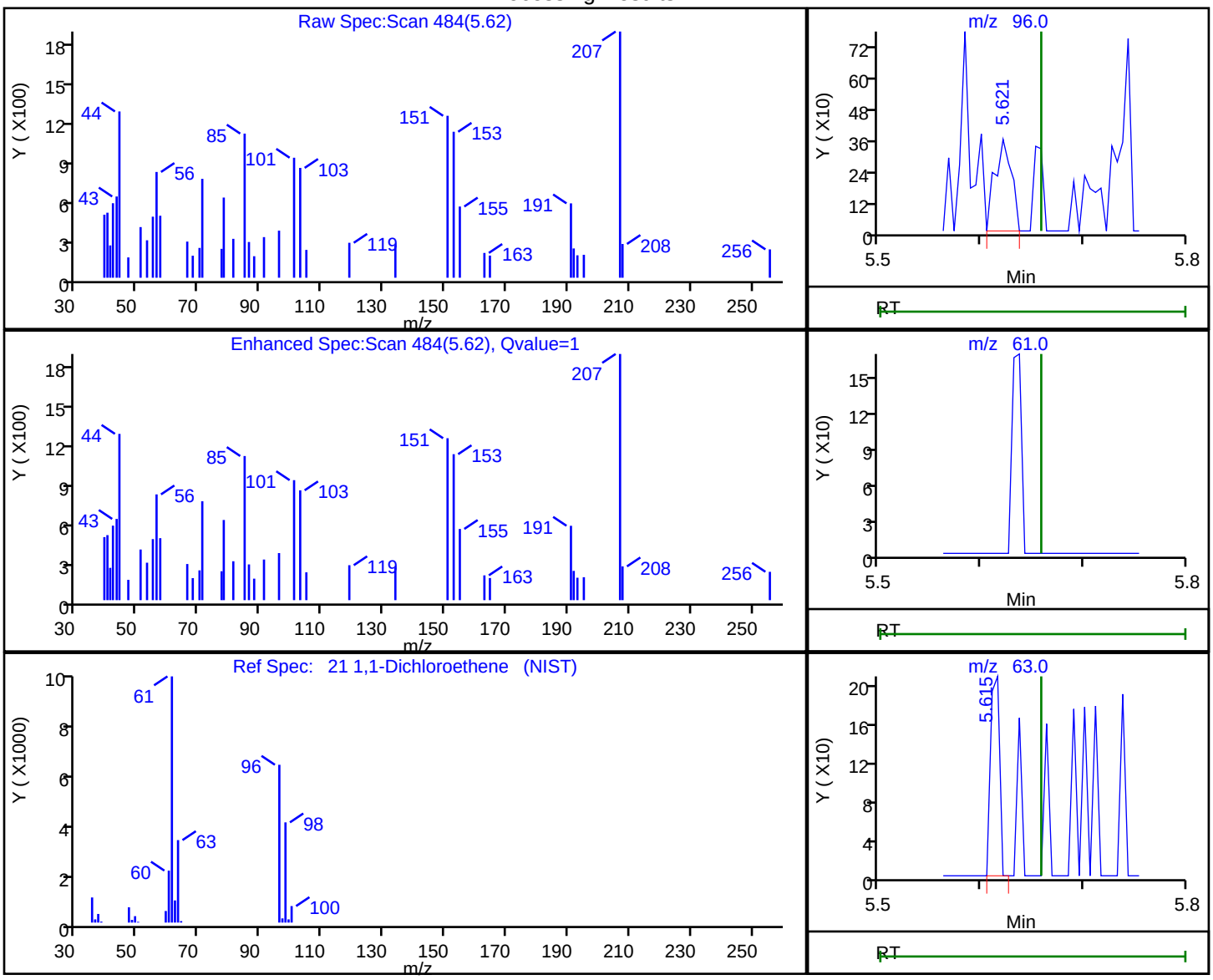
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.62 | 96.00 | 405 | 0.007658 |
| 5.66 | 61.00 | 0 | |
| 5.62 | 63.00 | 125 | |

Reviewer: guazzonig, 06-Dec-2018 13:33:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

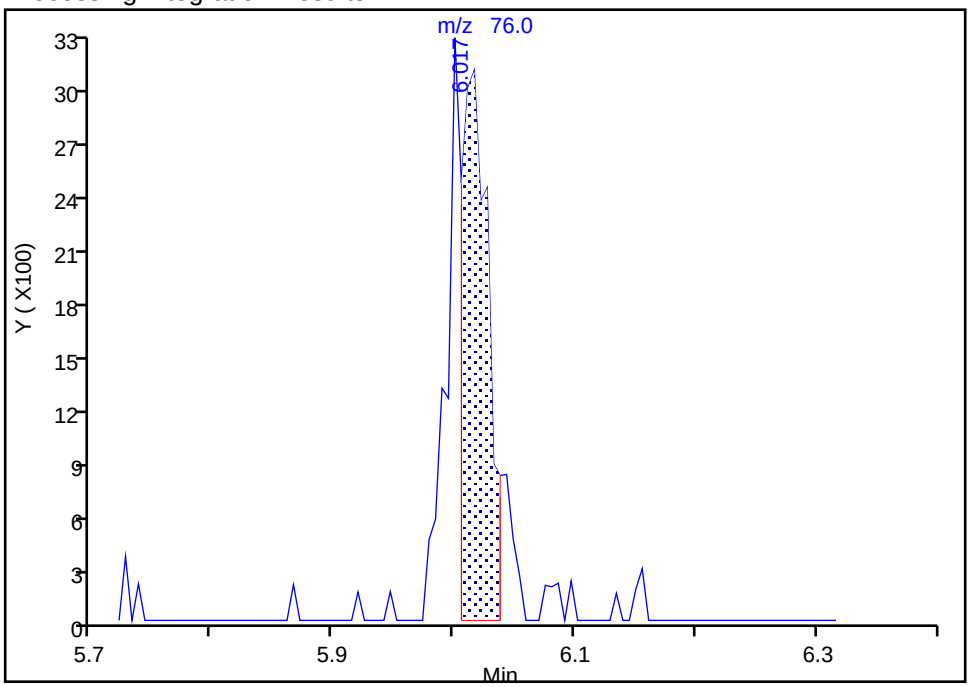
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 23 Carbon disulfide, CAS: 75-15-0

Signal: 1

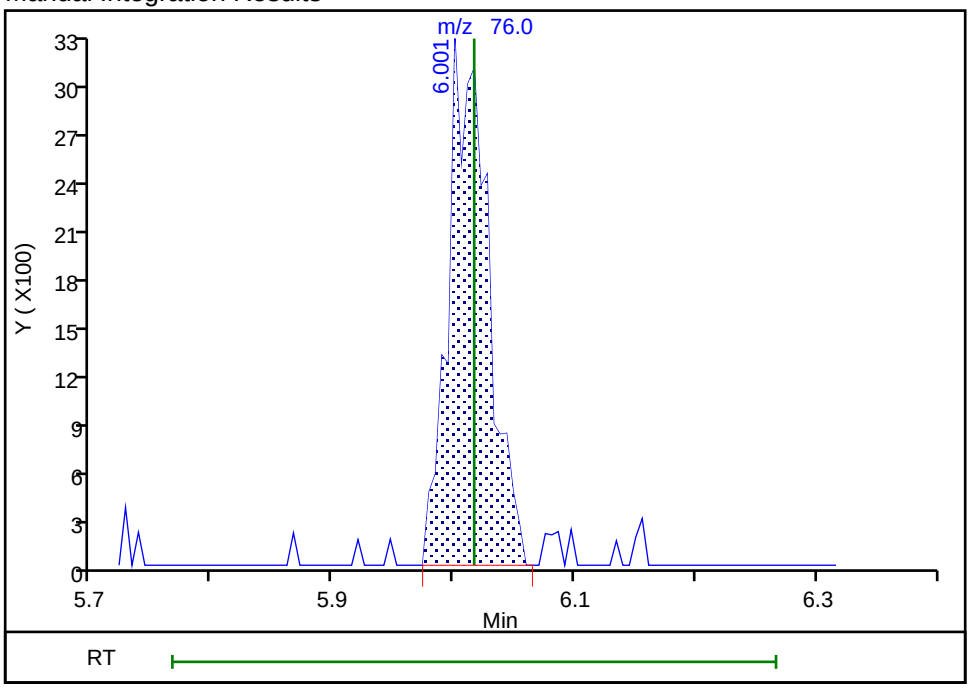
Processing Integration Results

RT: 6.02
Area: 4747
Amount: 0.034895
Amount Units: ppb v/v




Manual Integration Results

RT: 6.00
Area: 7399
Amount: 0.054390
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:09:15

Audit Action: Manually Integrated Audit Reason: Assign Peak

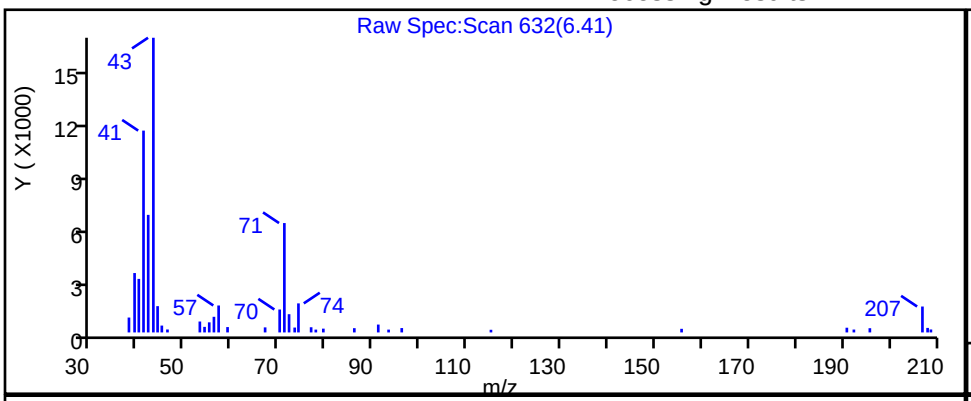
User Disabled Compound Report

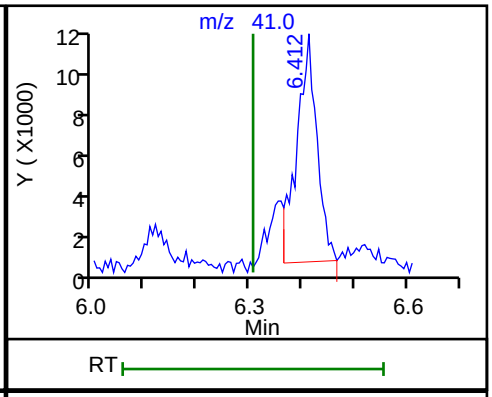
TestAmerica Burlington

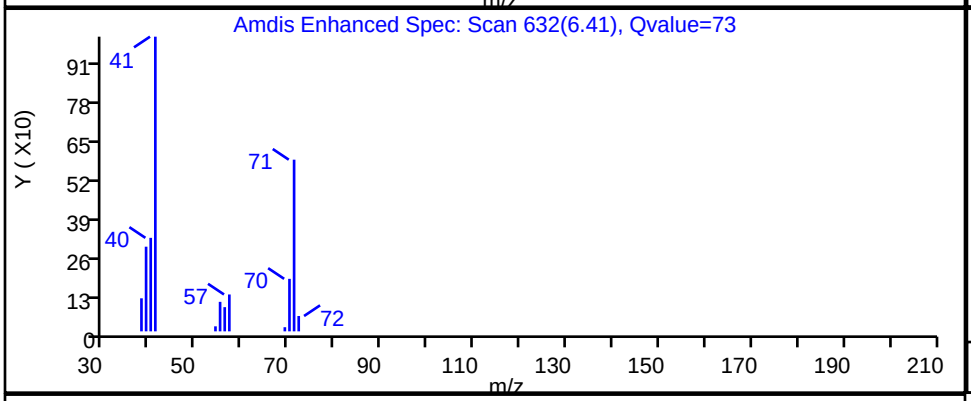
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

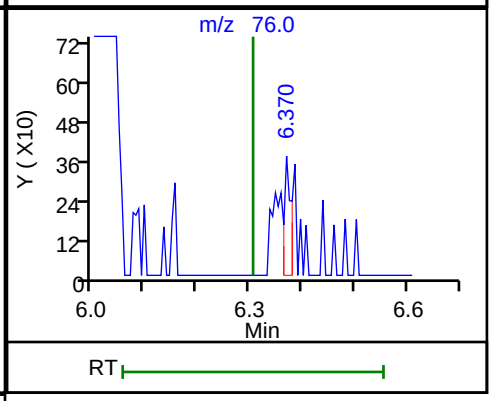
## 25 3-Chloro-1-propene, CAS: 107-05-1

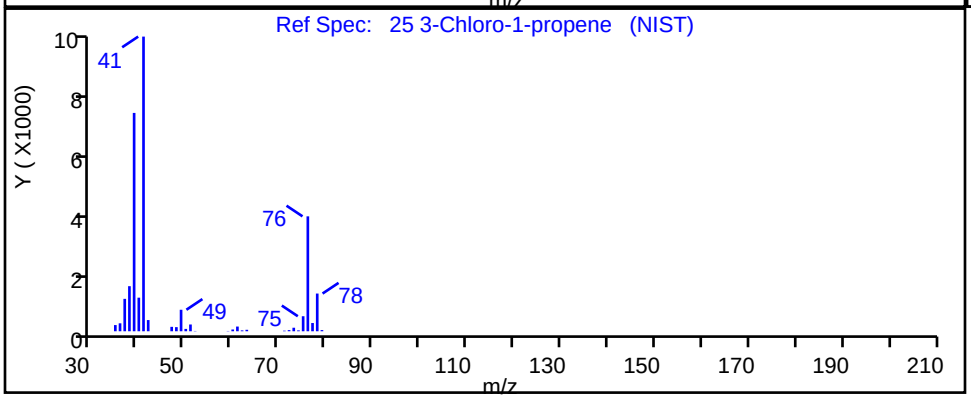
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.41 | 41.00 | 29678 | 0.754286 |
| 6.37 | 76.00 | 316 | |

Reviewer: bunmaa, 07-Dec-2018 09:09:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

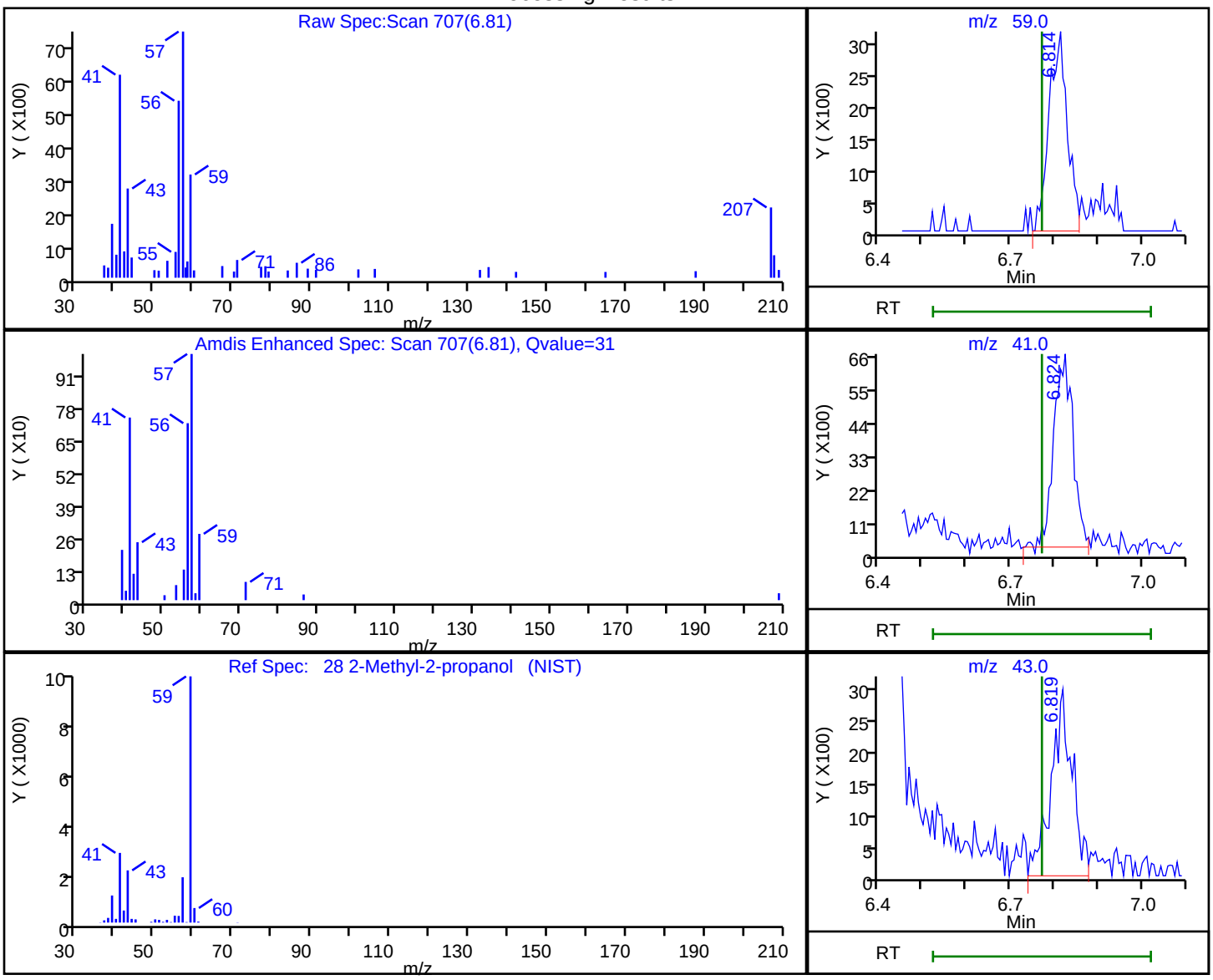
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.81 | 59.00 | 9141 | 0.120131 |
| 6.82 | 41.00 | 19894 | |
| 6.82 | 43.00 | 9776 | |

Reviewer: bunmaa, 07-Dec-2018 09:09:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

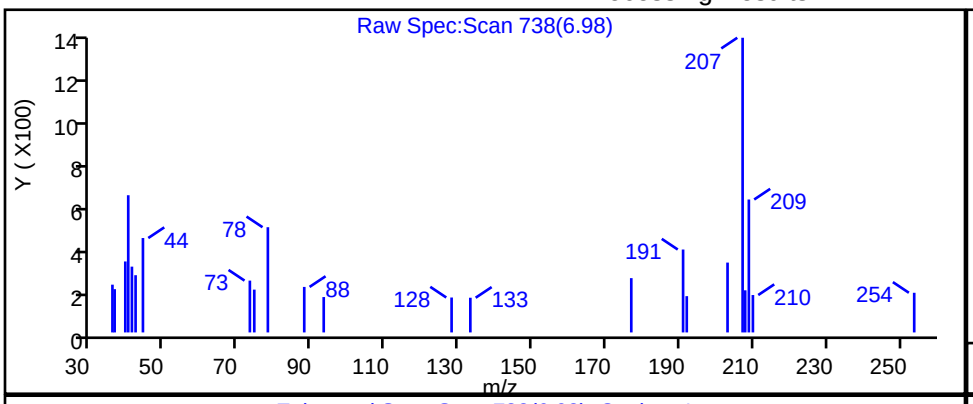
User Disabled Compound Report

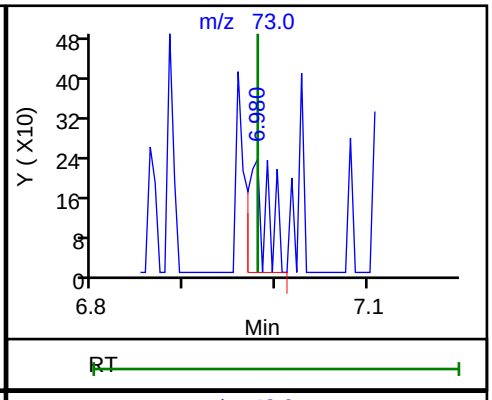
TestAmerica Burlington

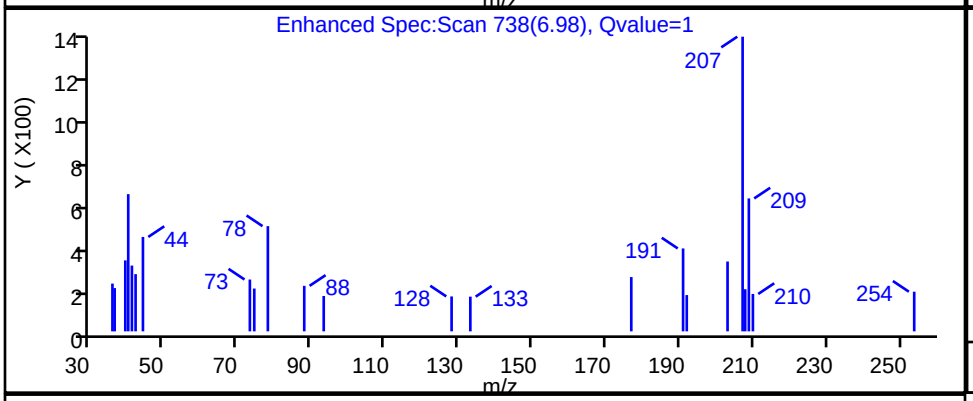
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

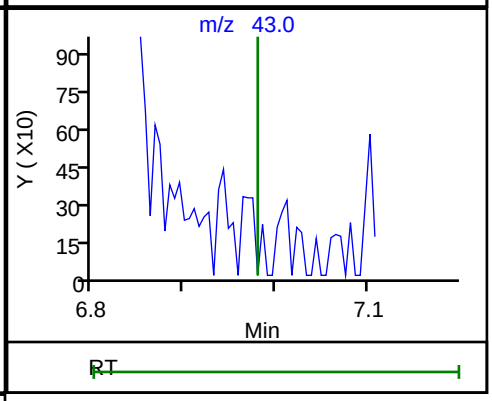
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

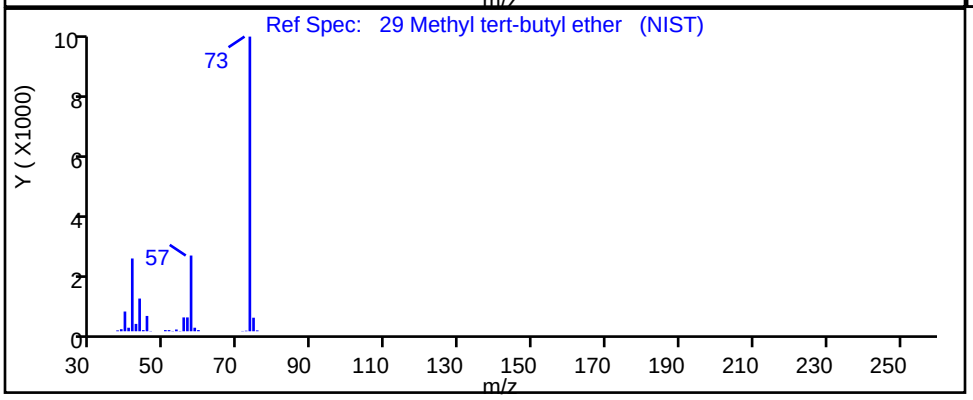
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.98 | 73.00 | 334 | 0.003249 |
| 6.98 | 43.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:09:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

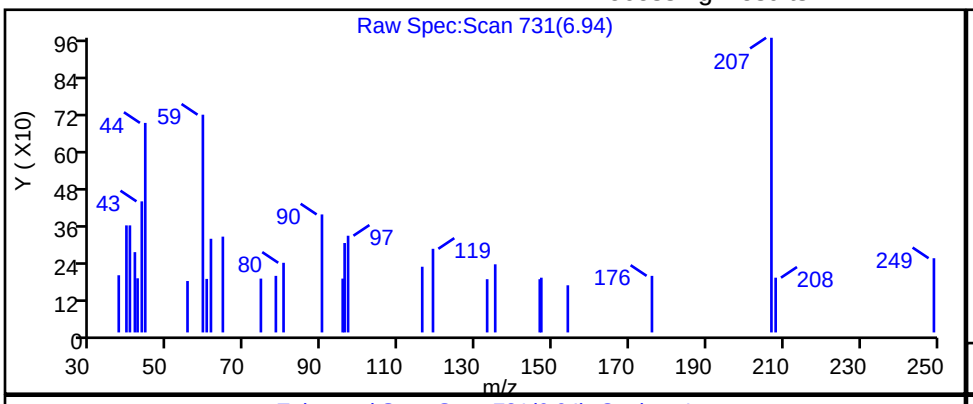
User Disabled Compound Report

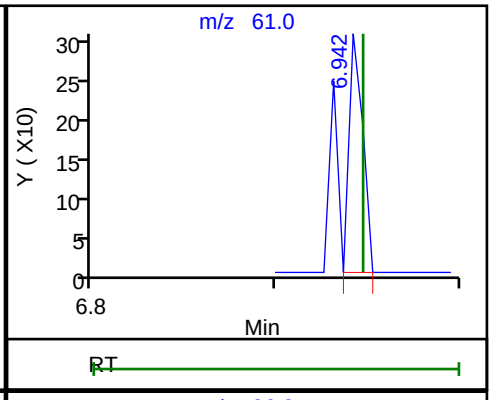
TestAmerica Burlington

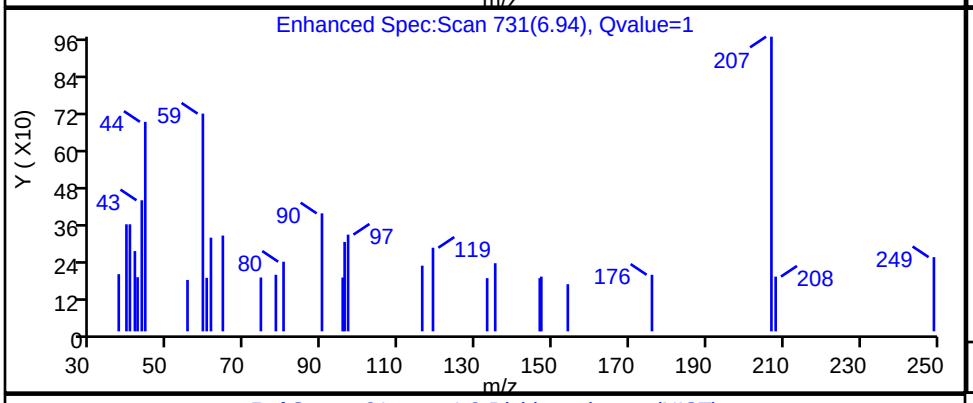
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

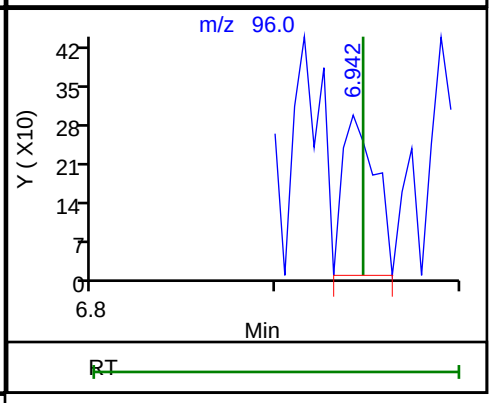
## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

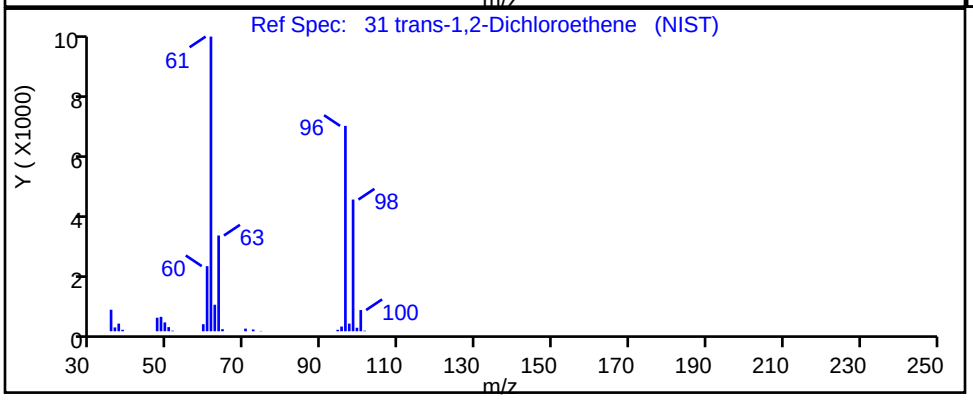
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.94 | 61.00 | 159 | 0.002481 |
| 6.94 | 96.00 | 368 | |

Reviewer: guazzonig, 06-Dec-2018 13:33:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

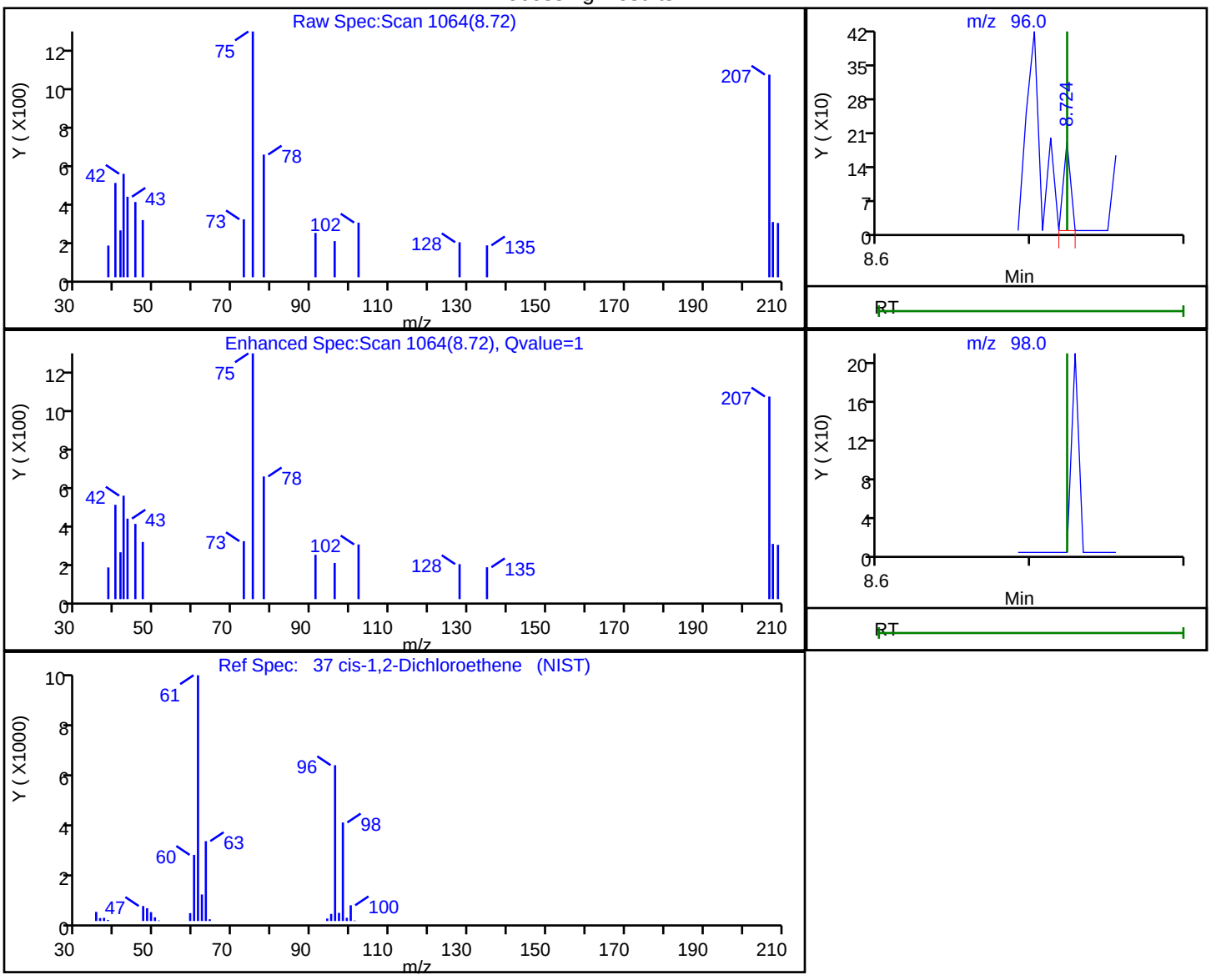
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.72 | 96.00 | 60 | 0.001198 |
| 8.72 | 98.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:33:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

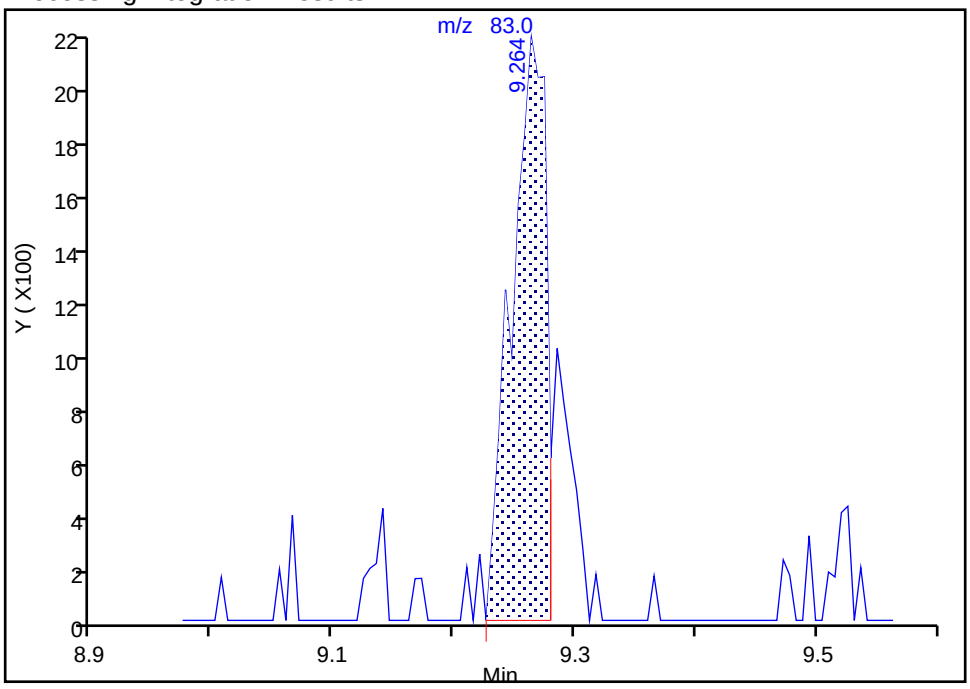
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

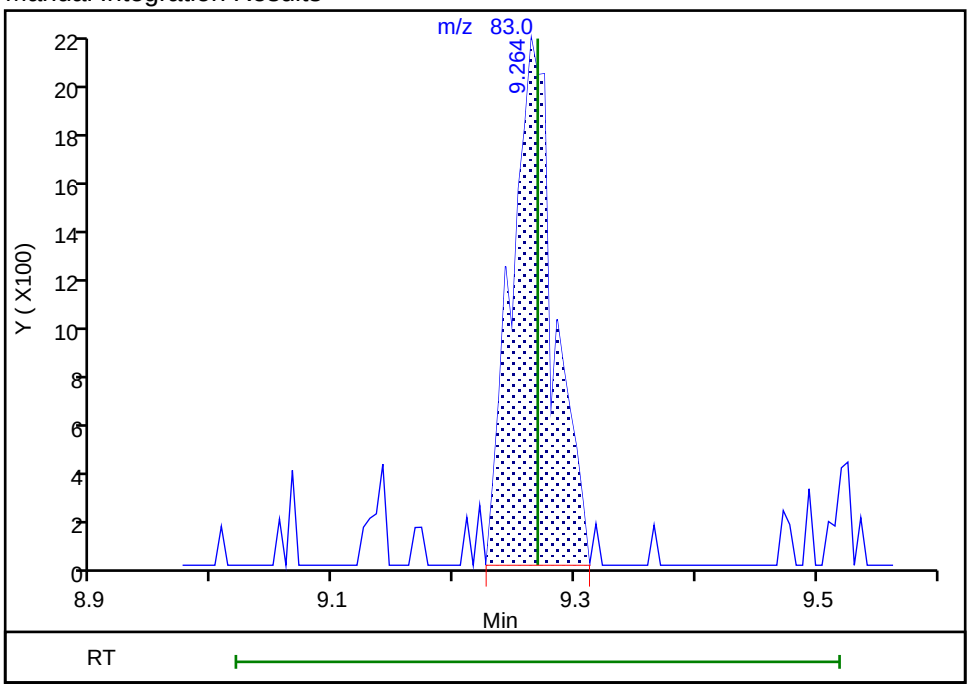
Processing Integration Results

RT: 9.26
Area: 4177
Amount: 0.034566
Amount Units: ppb v/v




Manual Integration Results

RT: 9.26
Area: 5179
Amount: 0.042857
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:10:24

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

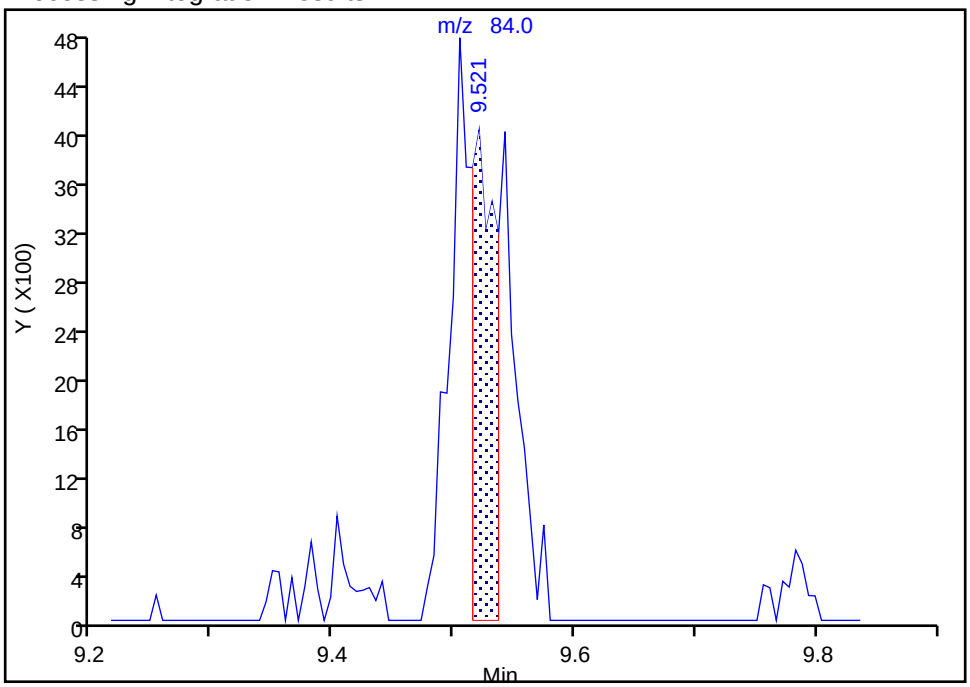
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

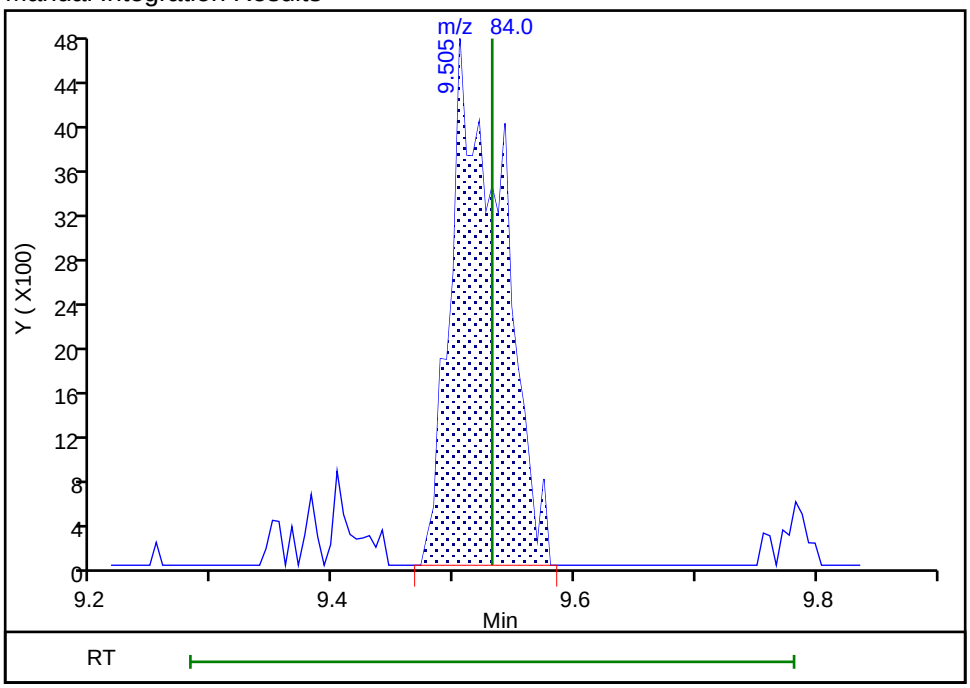
Processing Integration Results

RT: 9.52
Area: 5543
Amount: 0.108508
Amount Units: ppb v/v




Manual Integration Results

RT: 9.50
Area: 14098
Amount: 0.275977
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:33:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

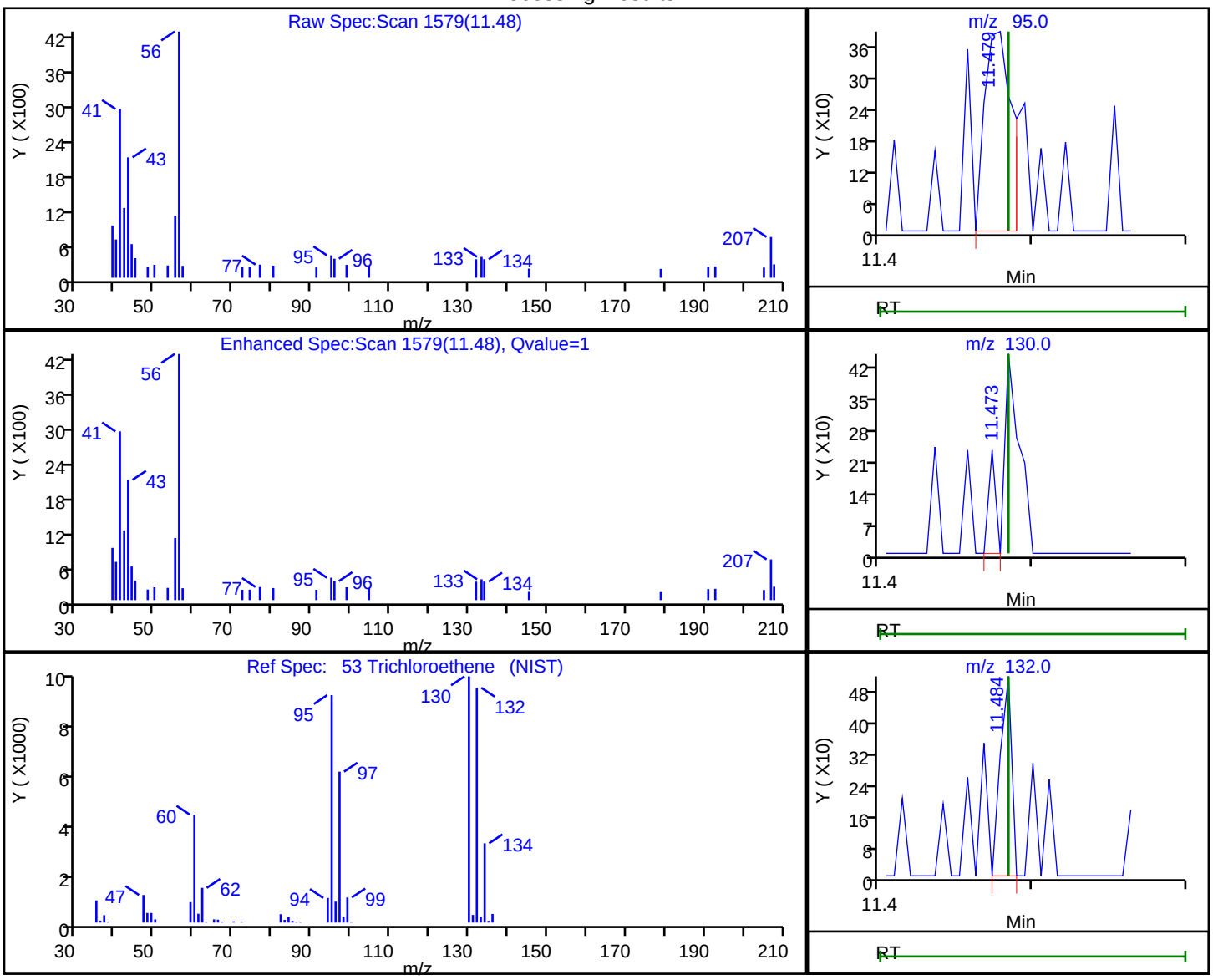
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 11.48 | 95.00 | 476 | 0.006138 |
| 11.47 | 130.00 | 75 | |
| 11.48 | 132.00 | 268 | |

Reviewer: guazzonig, 06-Dec-2018 13:34:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

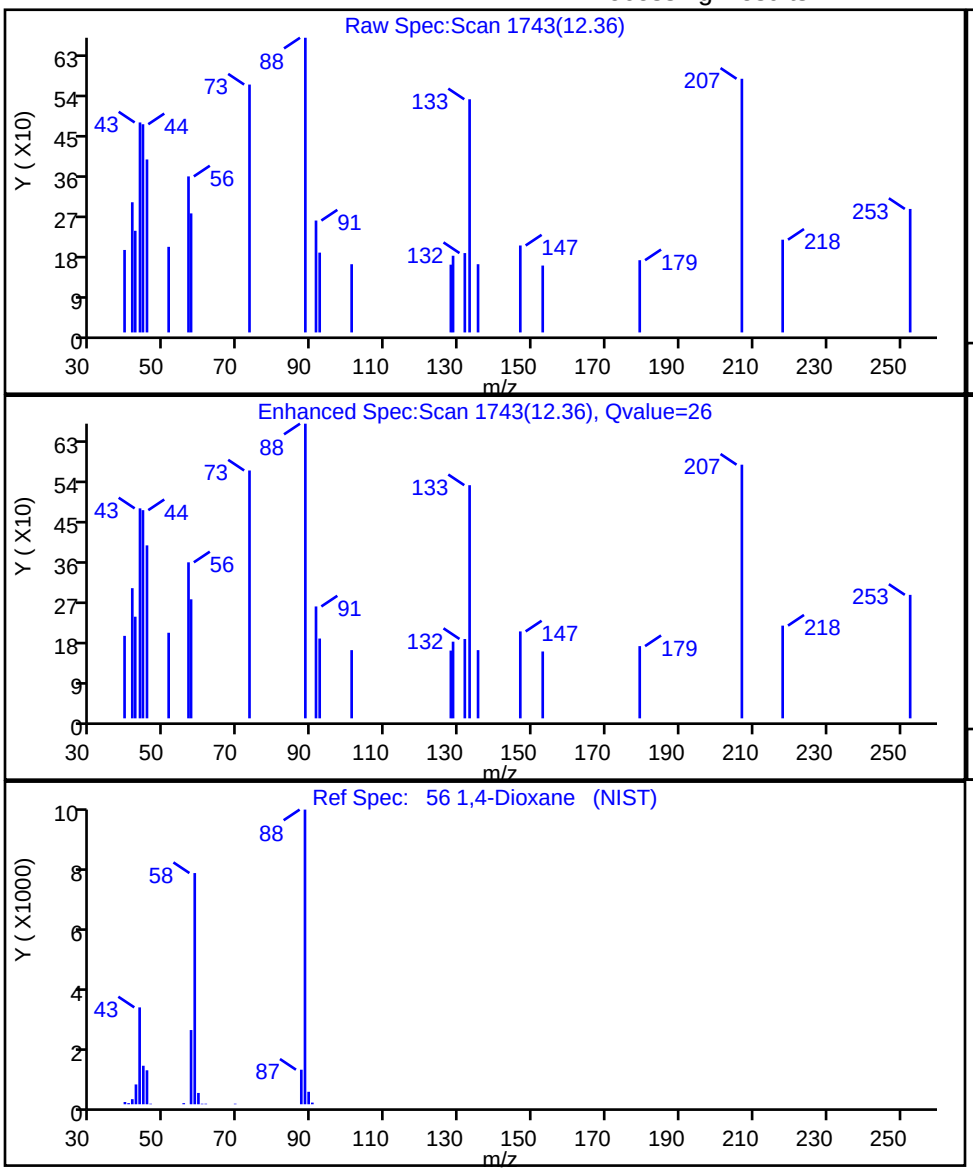
User Disabled Compound Report

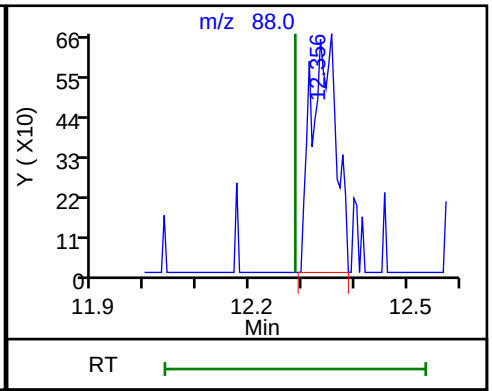
TestAmerica Burlington

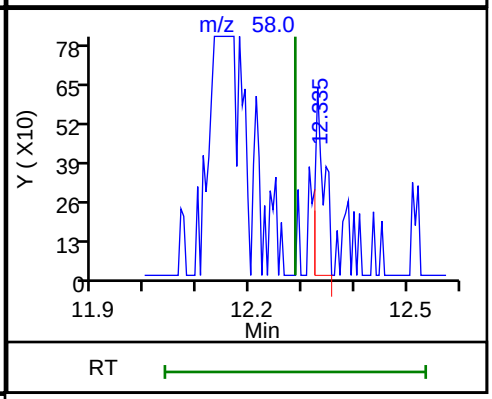
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 56 1,4-Dioxane, CAS: 123-91-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.36 | 88.00 | 2192 | 0.100621 |
| 12.33 | 58.00 | 730 | |

Reviewer: bunmaa, 07-Dec-2018 09:11:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

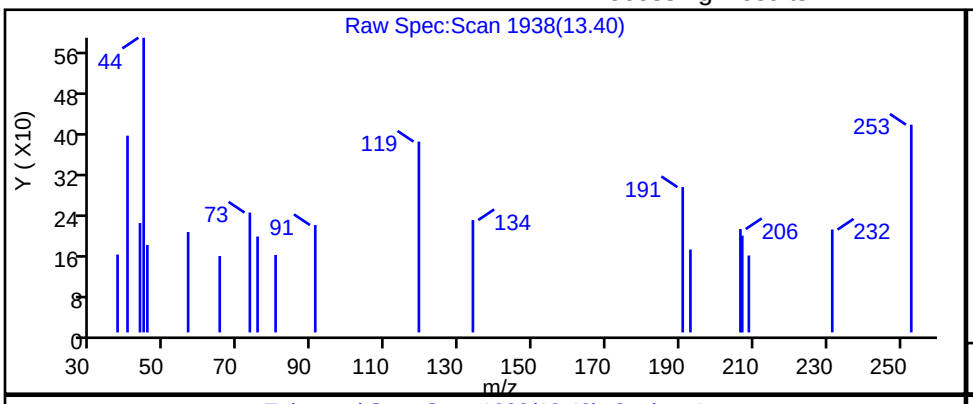
User Disabled Compound Report

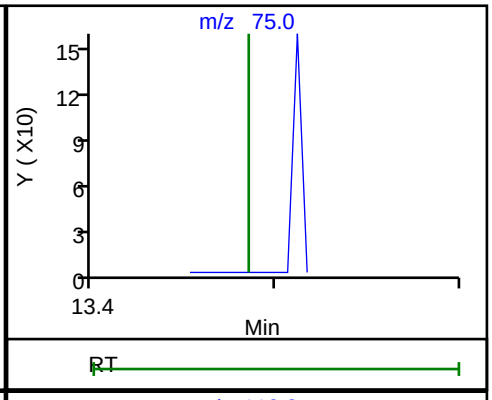
TestAmerica Burlington

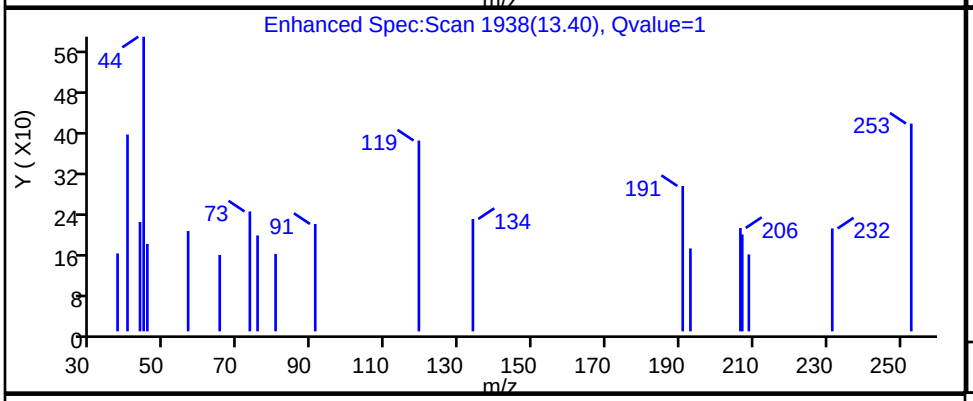
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

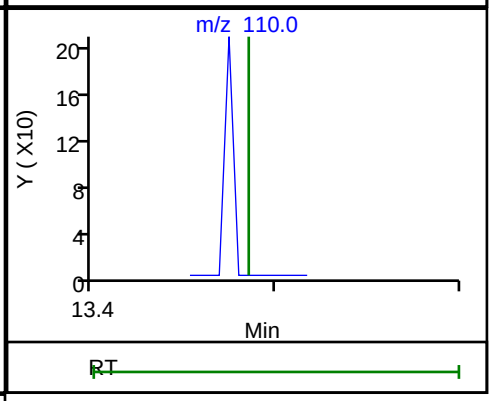
## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

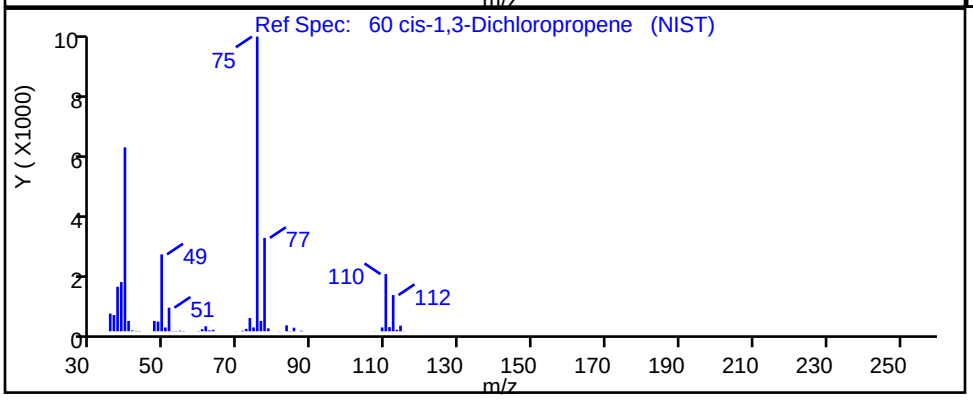
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.40 | 75.00 | 62 | 0.000831 |
| 13.48 | 110.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:34:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

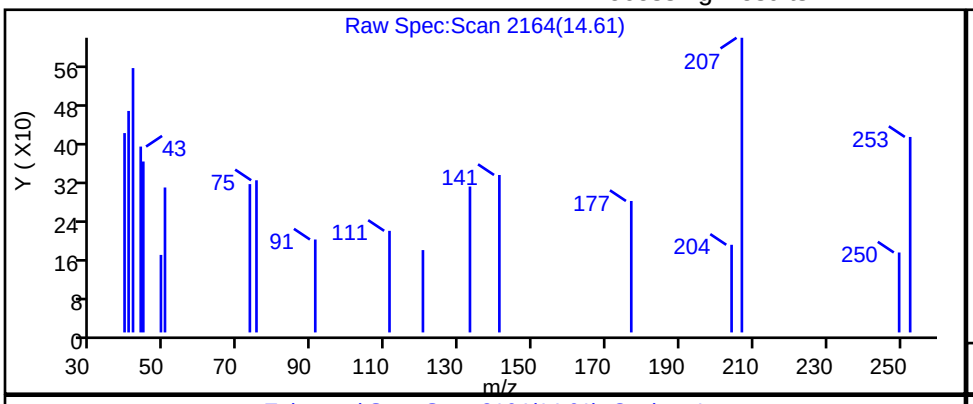
User Disabled Compound Report

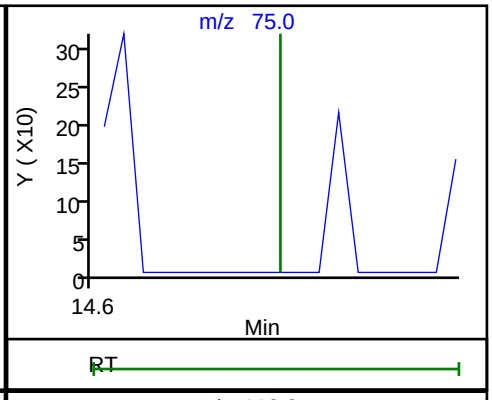
TestAmerica Burlington

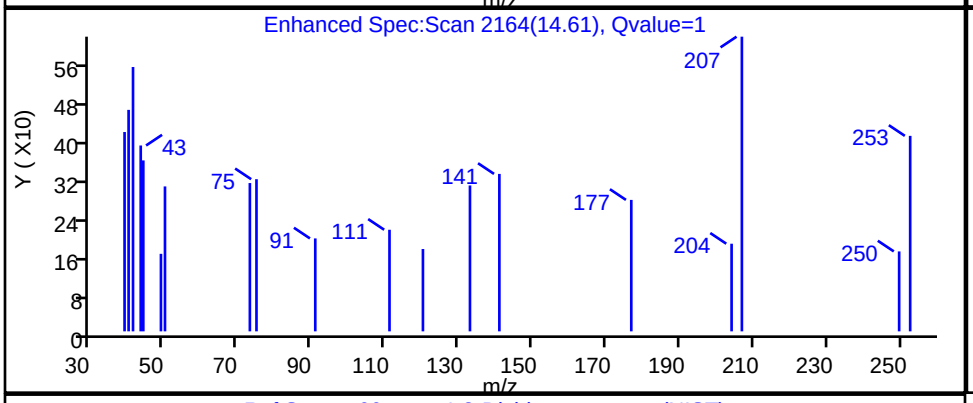
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

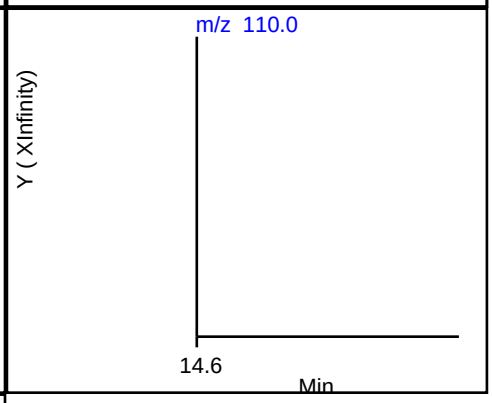
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

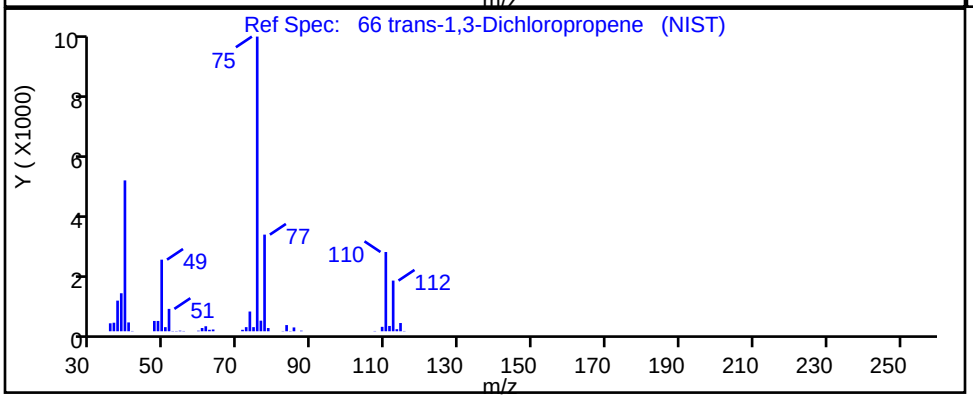
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.61 | 75.00 | 163 | 0.002223 |
| 14.65 | 110.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:34:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

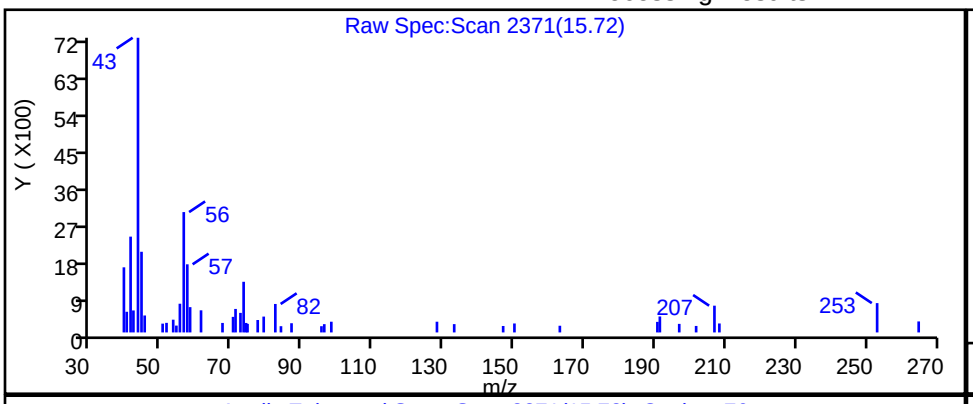
User Disabled Compound Report

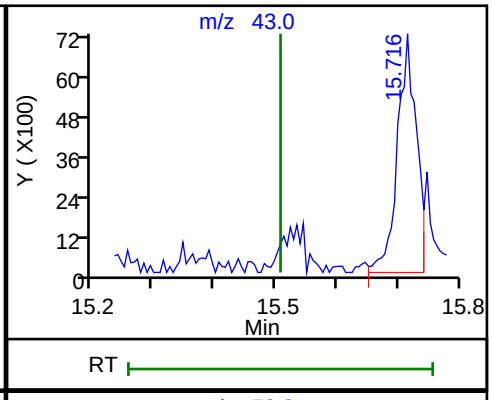
TestAmerica Burlington

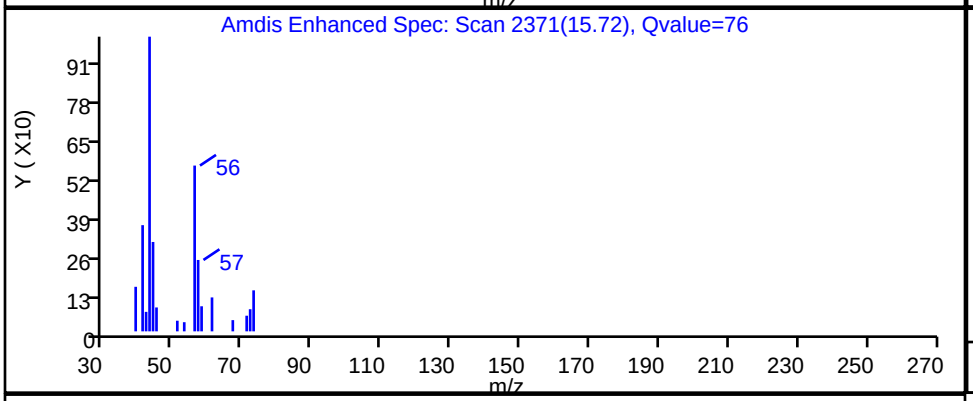
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

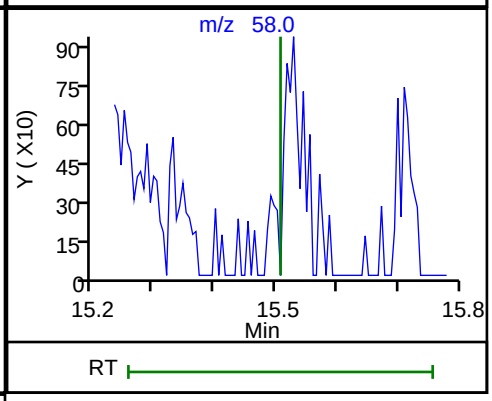
## 69 2-Hexanone, CAS: 591-78-6

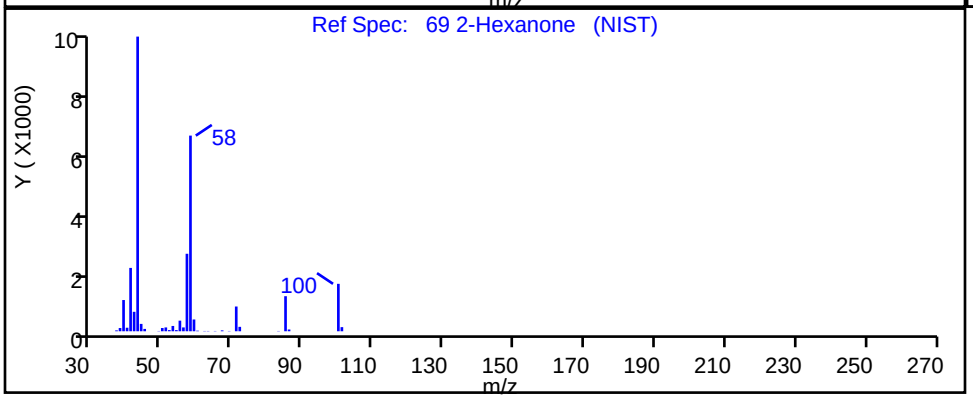
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.72 | 43.00 | 15737 | 0.195506 |
| 15.51 | 58.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:11:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 09:14:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

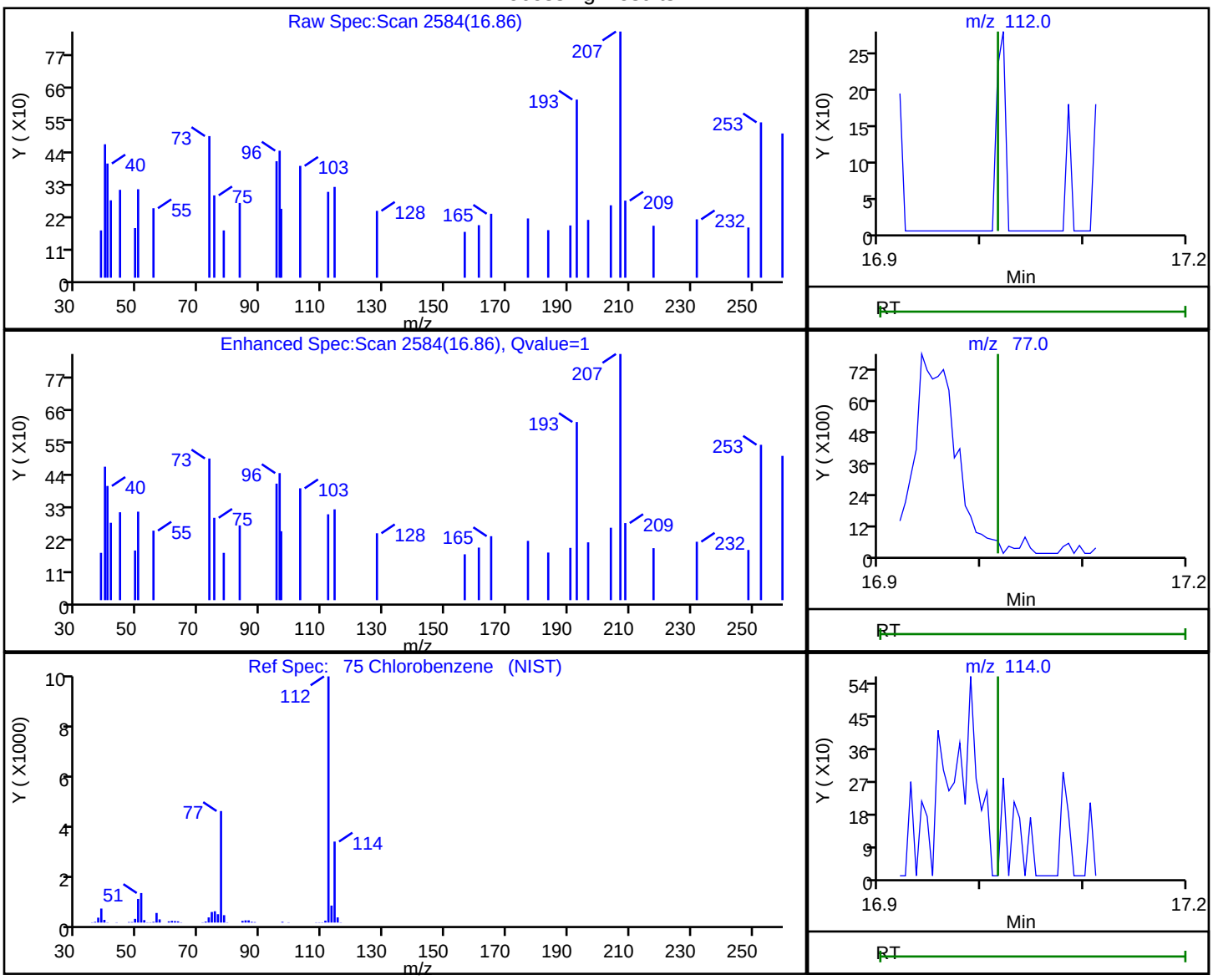
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 16.86 | 112.00 | 171 | 0.001214 |
| 16.86 | 114.00 | 100 | |
| 17.02 | 77.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:12:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

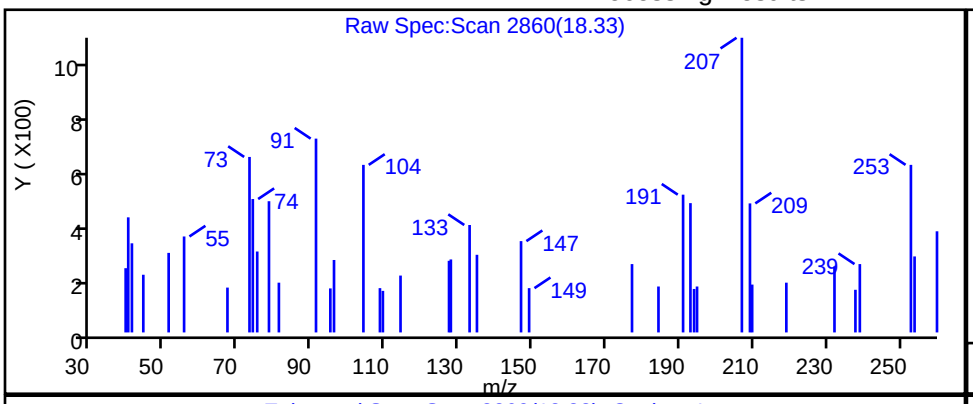
User Disabled Compound Report

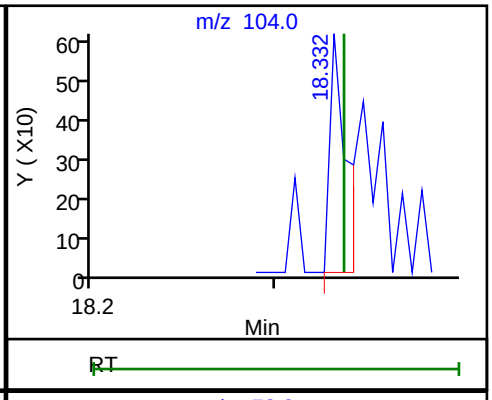
TestAmerica Burlington

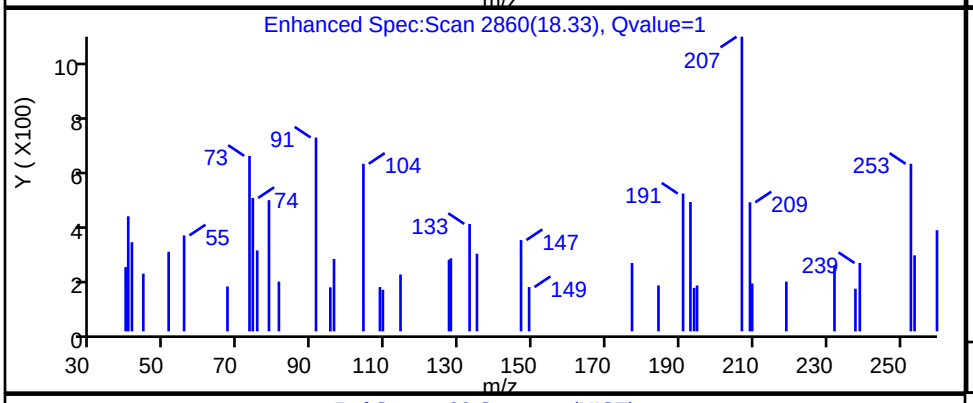
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

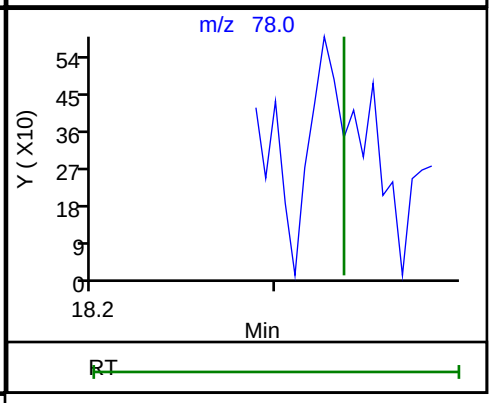
## 80 Styrene, CAS: 100-42-5

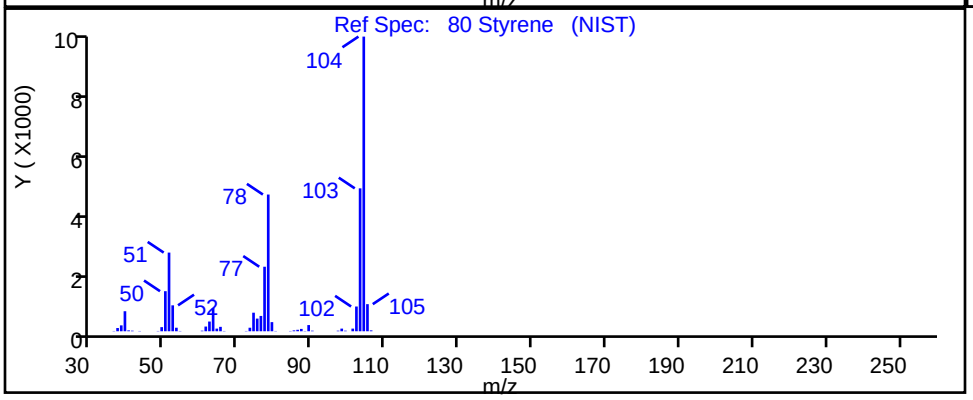
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.33 | 104.00 | 379 | 0.003116 |
| 18.34 | 78.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:34:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

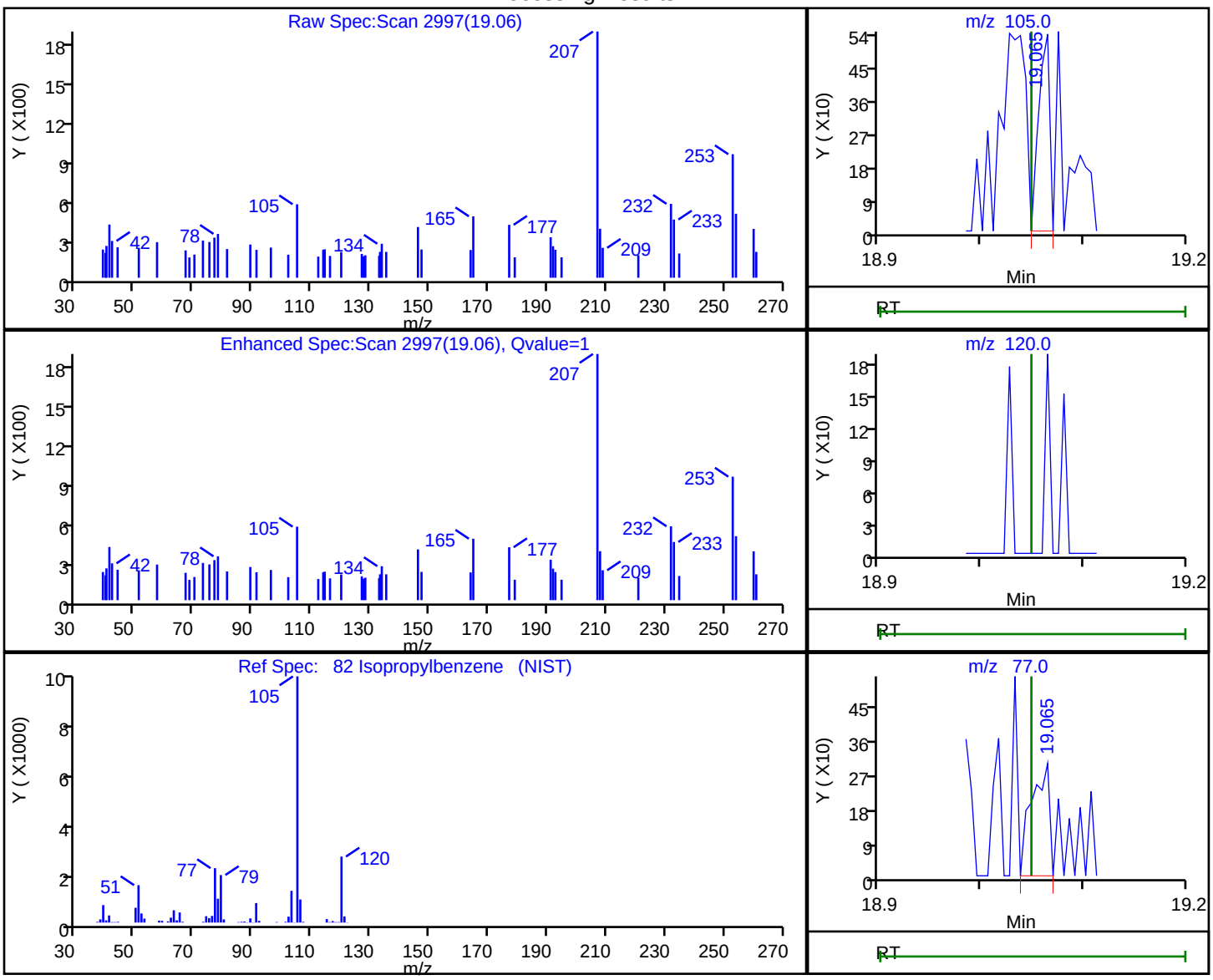
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.06 | 105.00 | 402 | 0.001730 |
| 19.06 | 77.00 | 361 | |
| 19.05 | 120.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:34:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

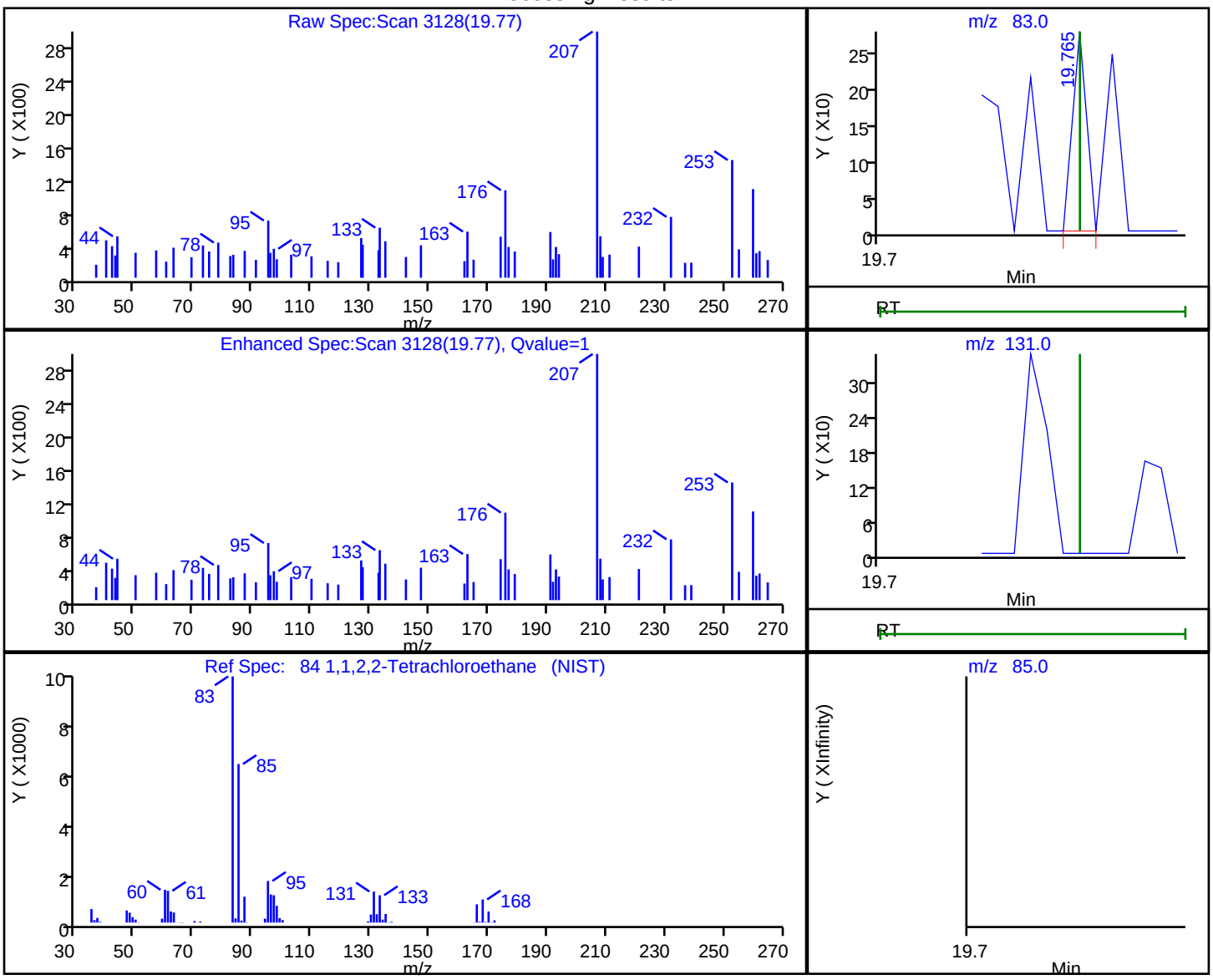
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.77 | 83.00 | 88 | 0.000694 |
| 19.77 | 131.00 | 0 | |
| 19.77 | 85.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:34:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

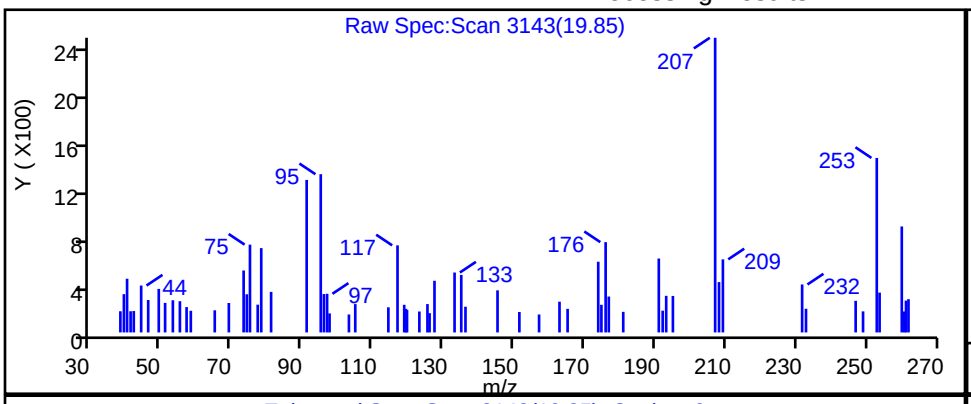
User Disabled Compound Report

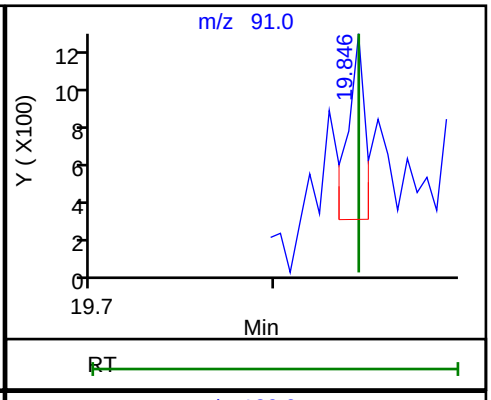
TestAmerica Burlington

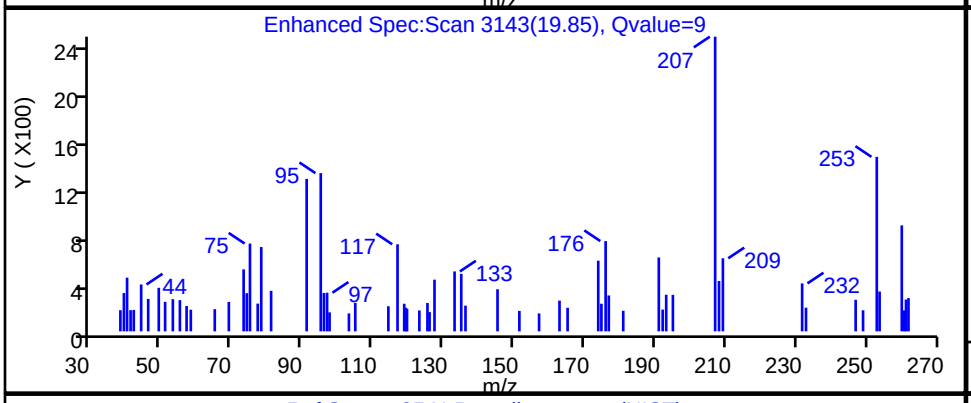
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

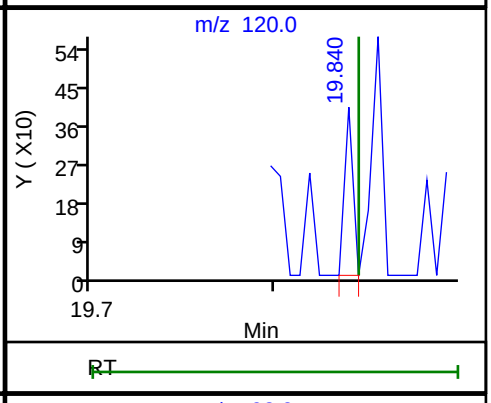
## 85 N-Propylbenzene, CAS: 103-65-1

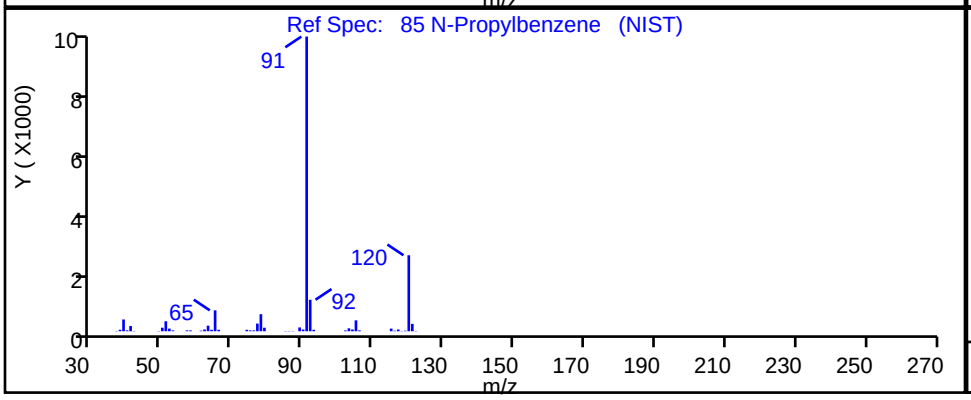
Processing Results

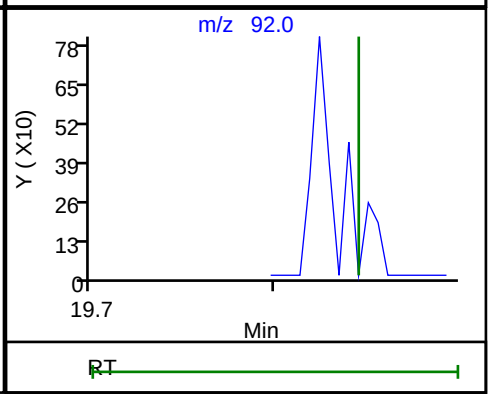



| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.85 | 91.00 | 664 | 0.002400 |
| 19.84 | 120.00 | 127 | |
| 19.85 | 92.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:12:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

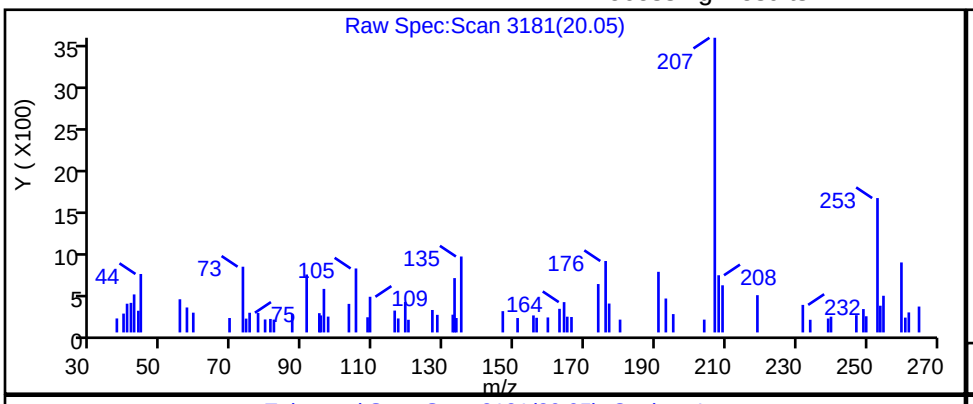
User Disabled Compound Report

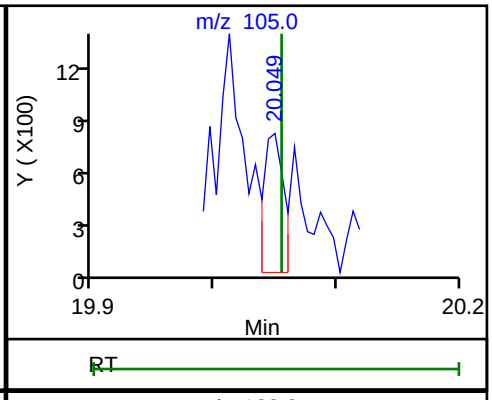
TestAmerica Burlington

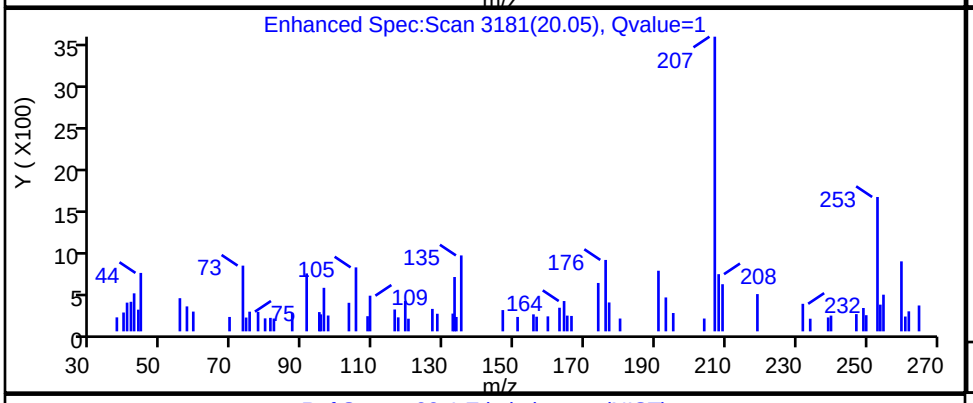
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

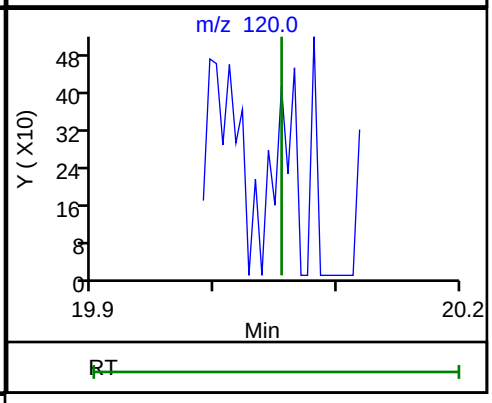
## 88 4-Ethyltoluene, CAS: 622-96-8

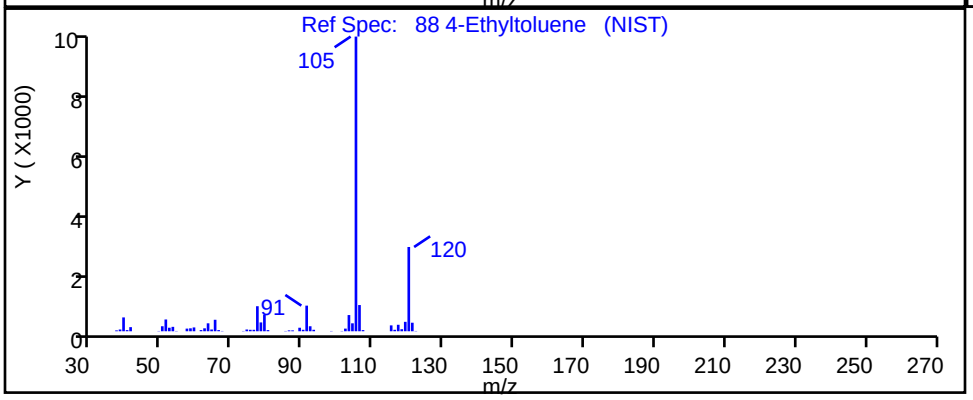
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.05 | 105.00 | 892 | 0.003788 |
| 20.05 | 120.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:12:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

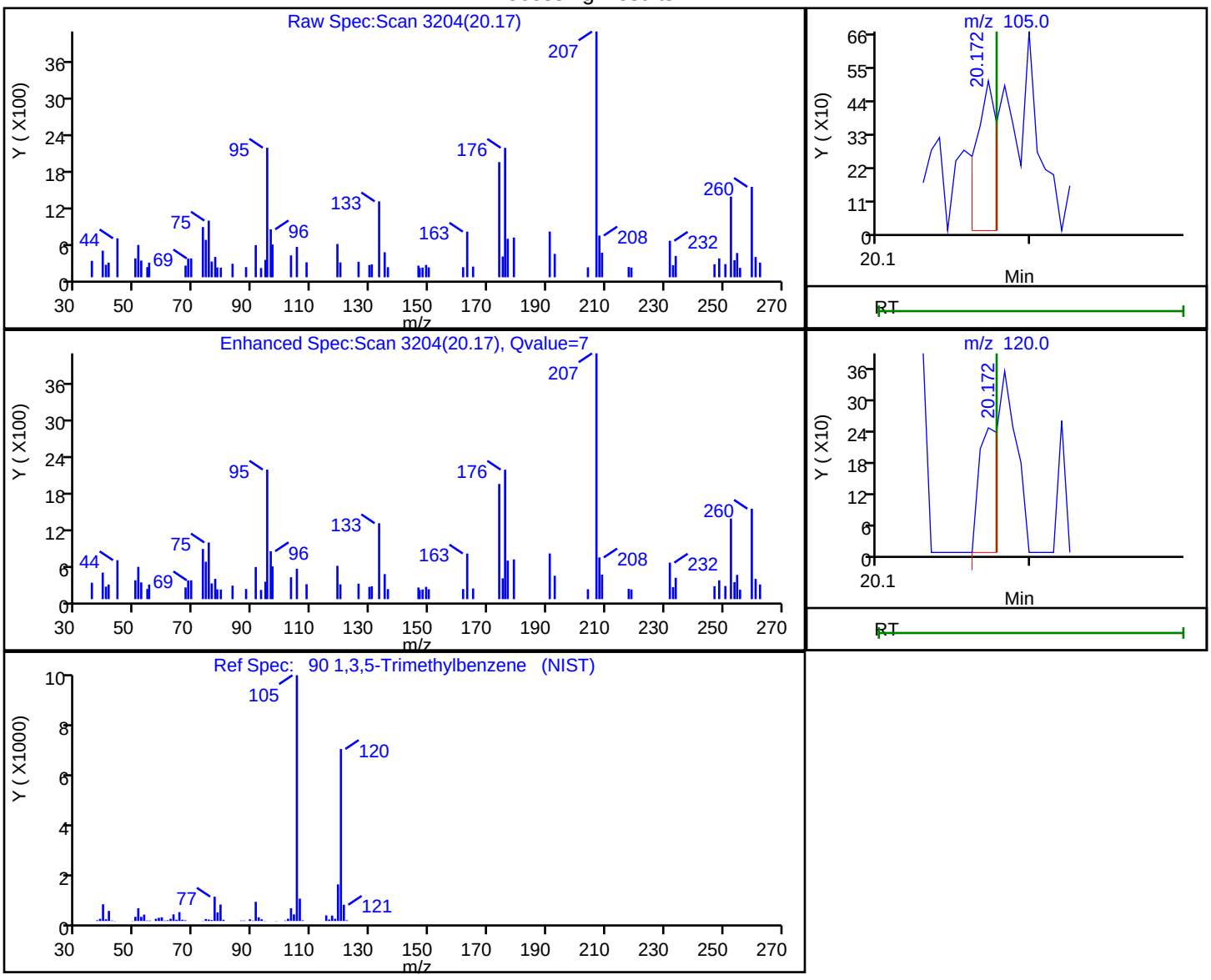
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.17 | 105.00 | 469 | 0.002328 |
| 20.17 | 120.00 | 219 | |

Reviewer: bunmaa, 07-Dec-2018 09:12:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

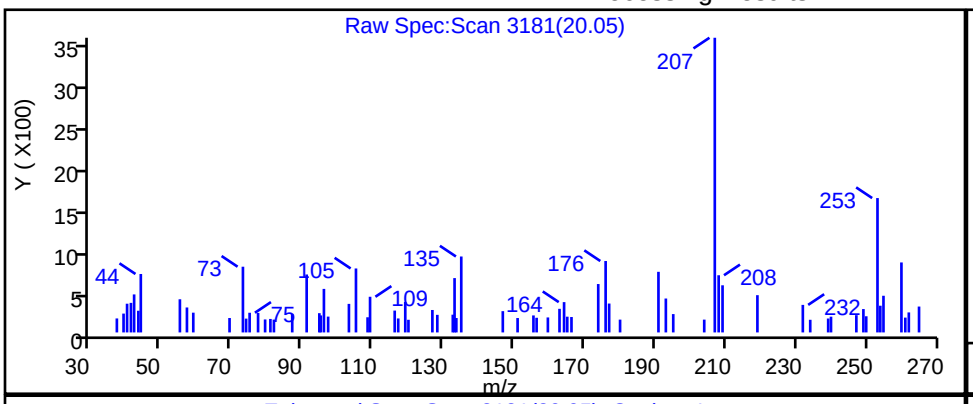
User Disabled Compound Report

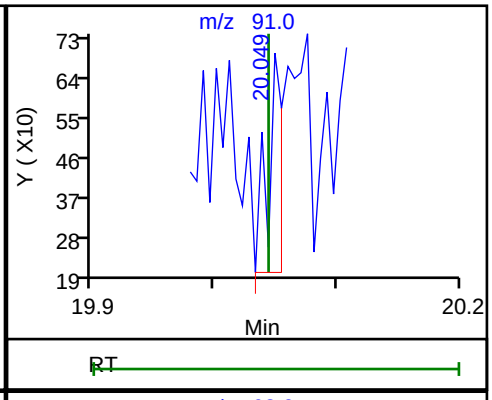
TestAmerica Burlington

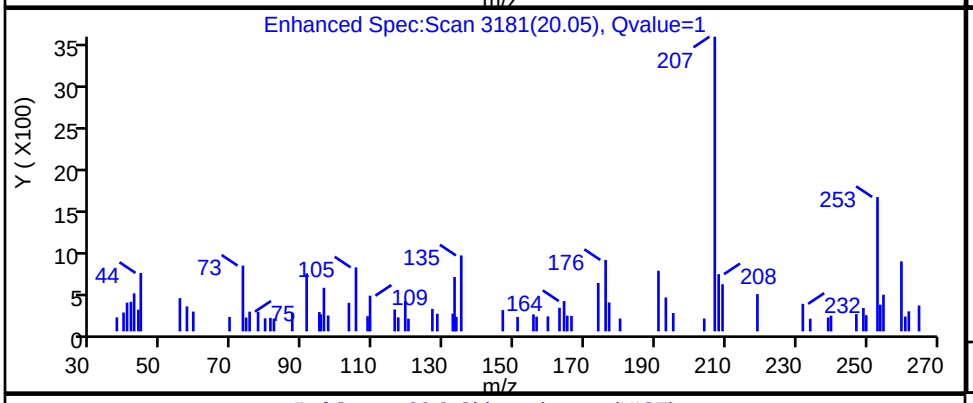
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

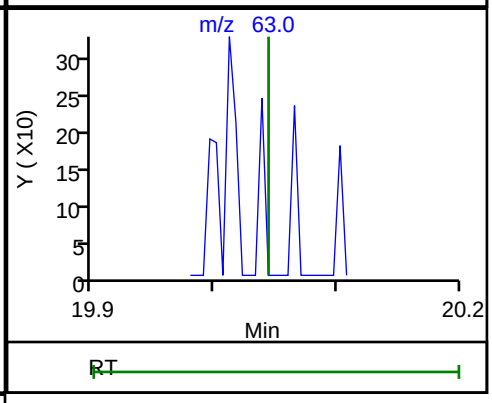
## 89 2-Chlorotoluene, CAS: 95-49-8

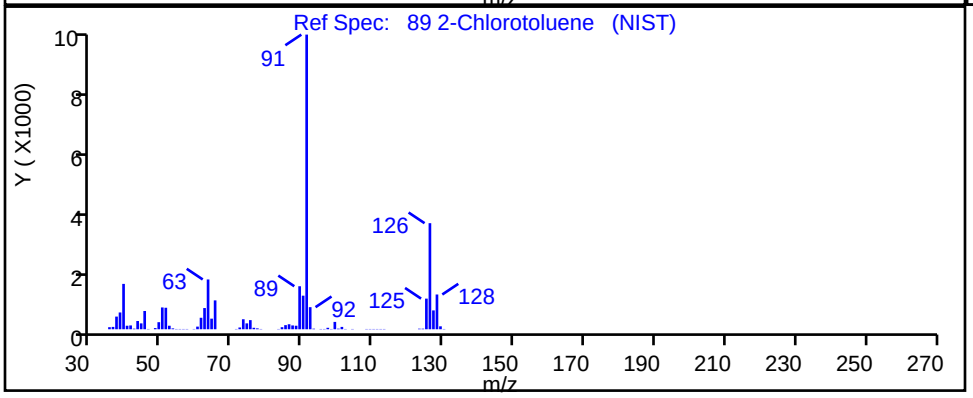
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.05 | 91.00 | 398 | 0.001905 |
| 20.04 | 63.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:12:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

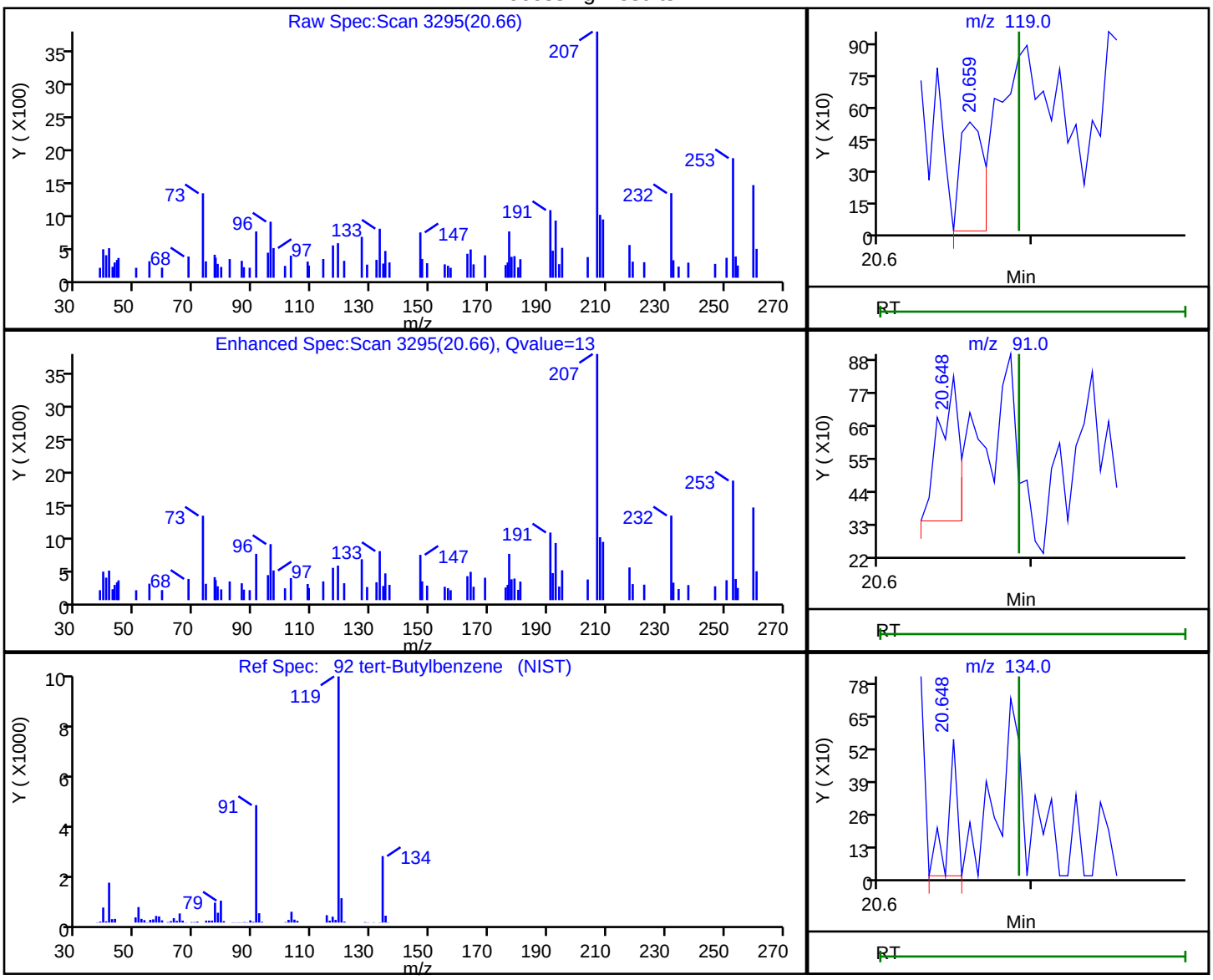
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.66 | 119.00 | 568 | 0.003014 |
| 20.65 | 91.00 | 447 | |
| 20.65 | 134.00 | 238 | |

Reviewer: bunmaa, 07-Dec-2018 09:12:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

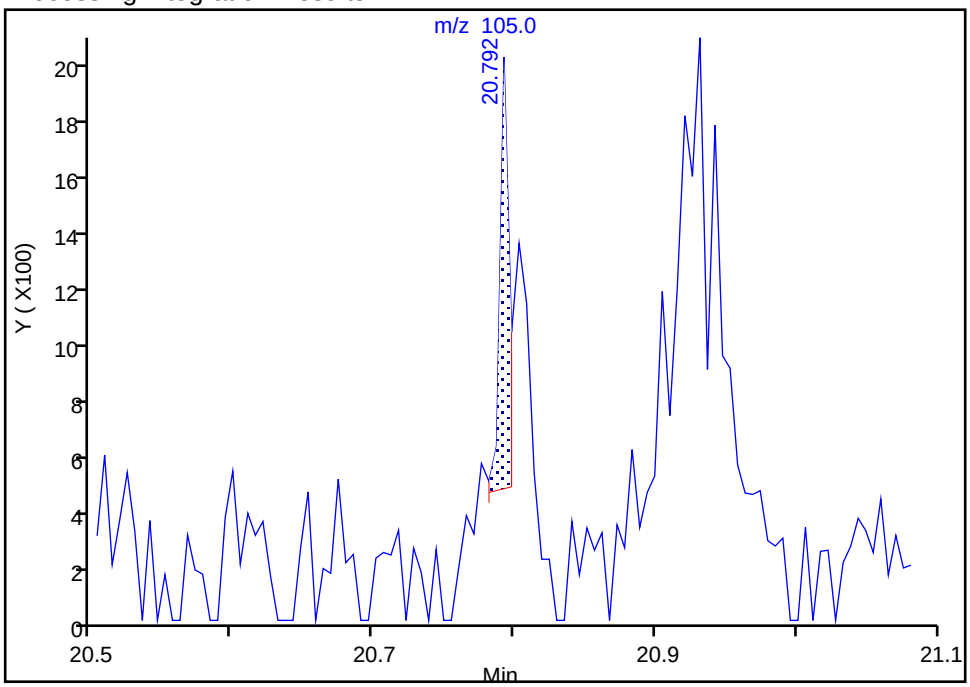
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

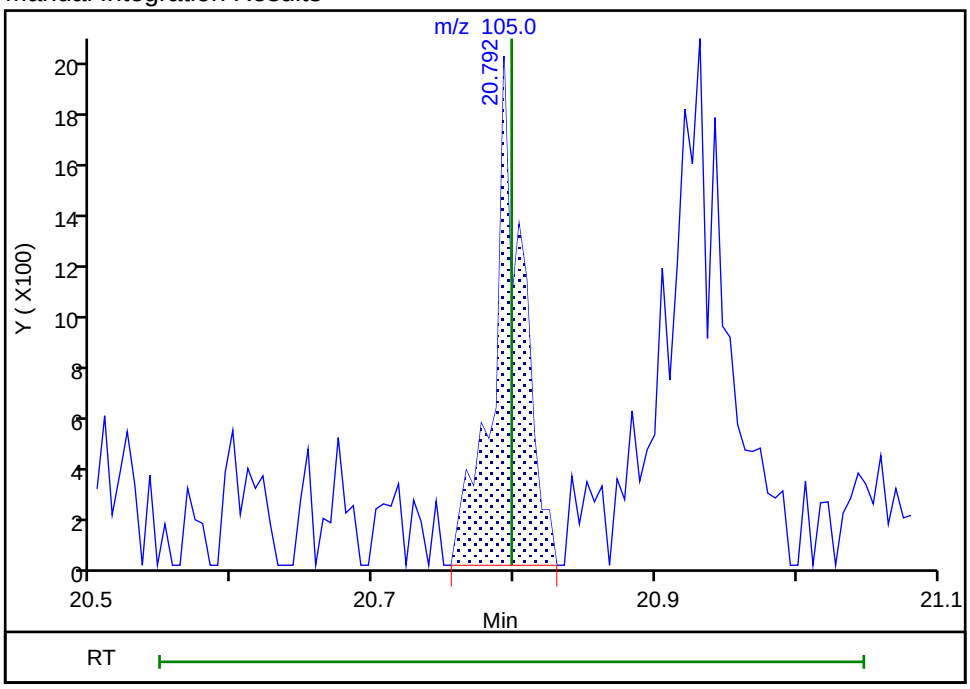
Processing Integration Results

RT: 20.79
Area: 731
Amount: 0.003677
Amount Units: ppb v/v




Manual Integration Results

RT: 20.79
Area: 2882
Amount: 0.014498
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:13:05

Audit Action: Manually Integrated Audit Reason: Assign Peak

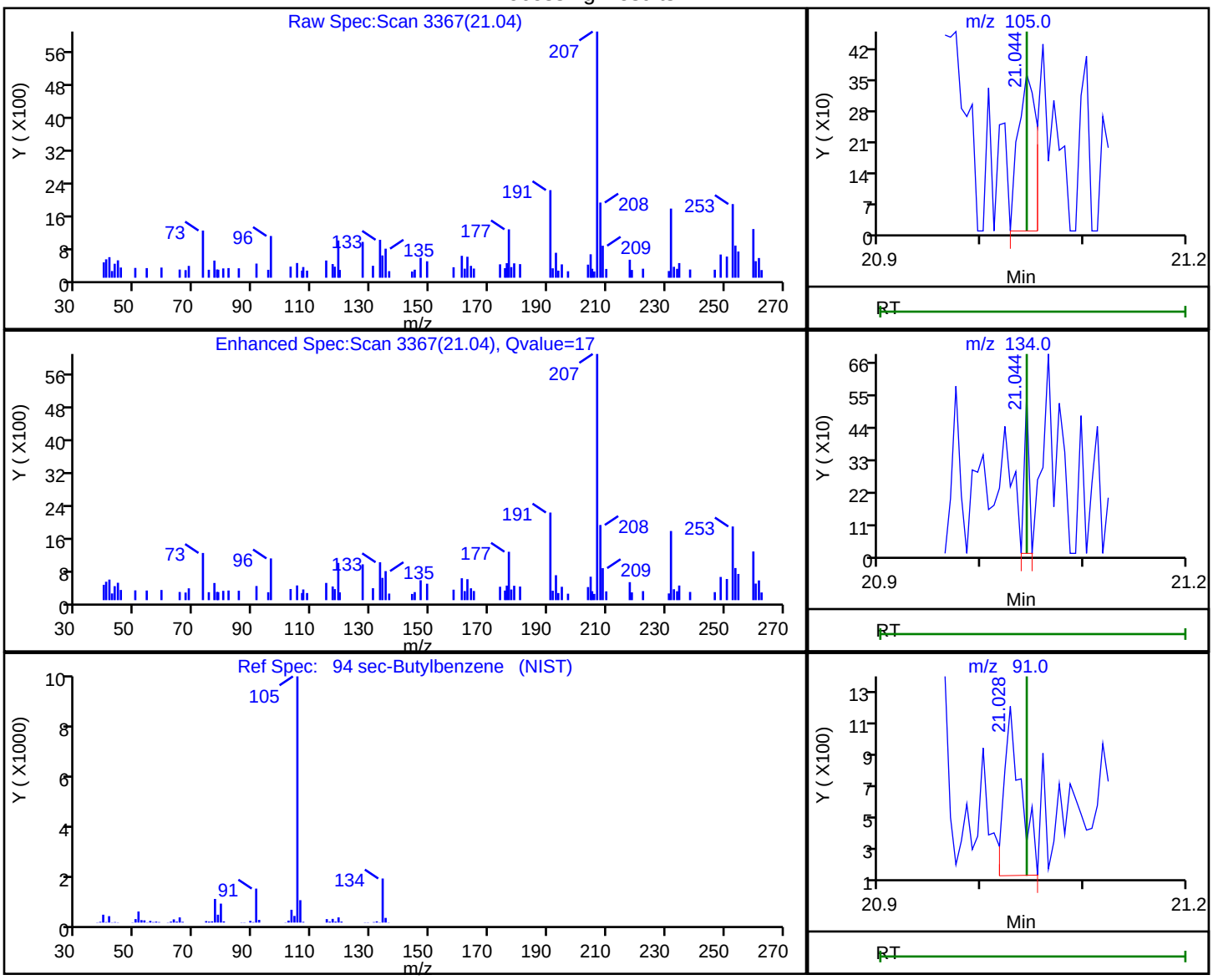
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.04 | 105.00 | 446 | 0.001596 |
| 21.04 | 134.00 | 176 | |
| 21.03 | 91.00 | 1107 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

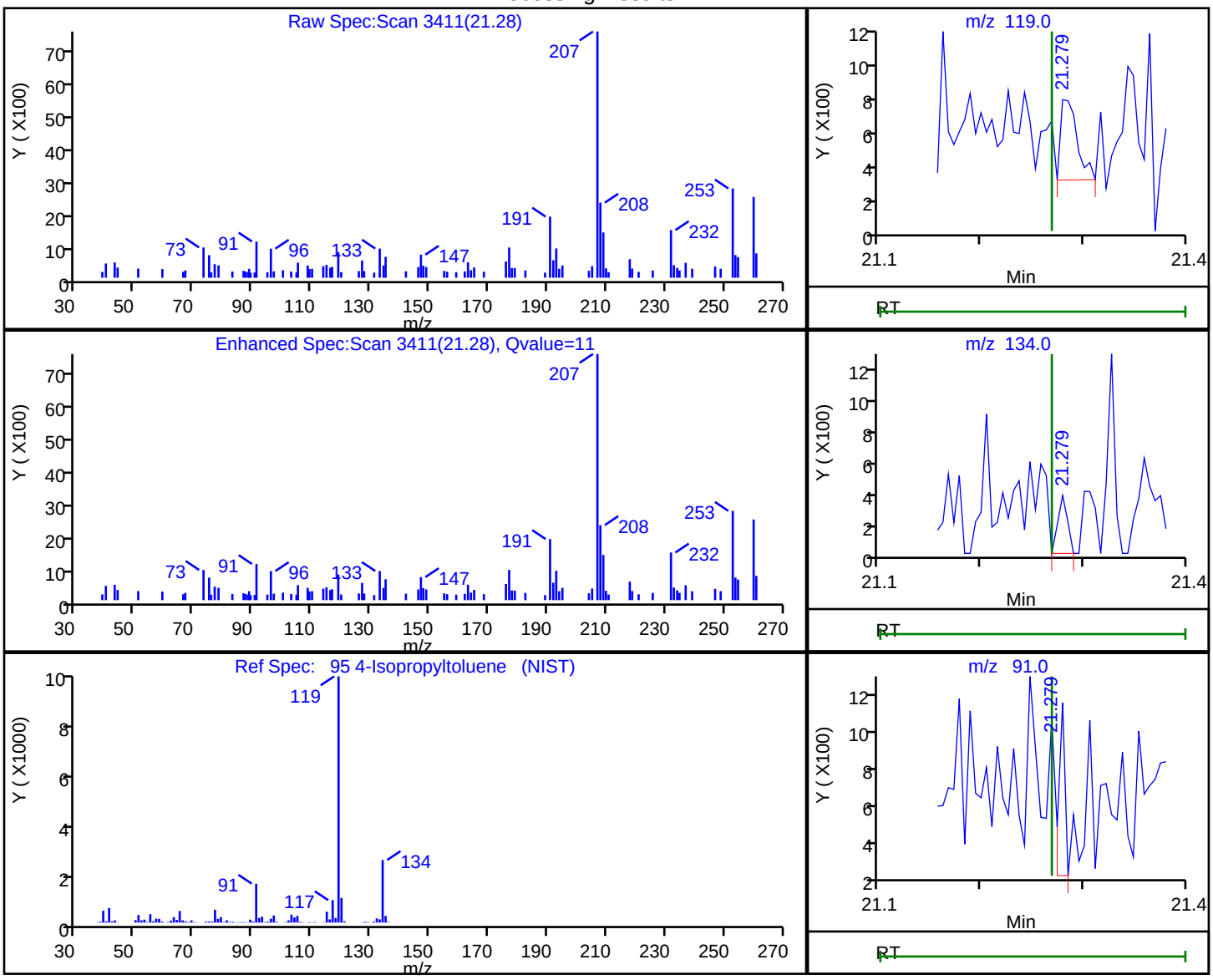
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.28 | 119.00 | 544 | 0.002271 |
| 21.28 | 134.00 | 244 | |
| 21.28 | 91.00 | 359 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

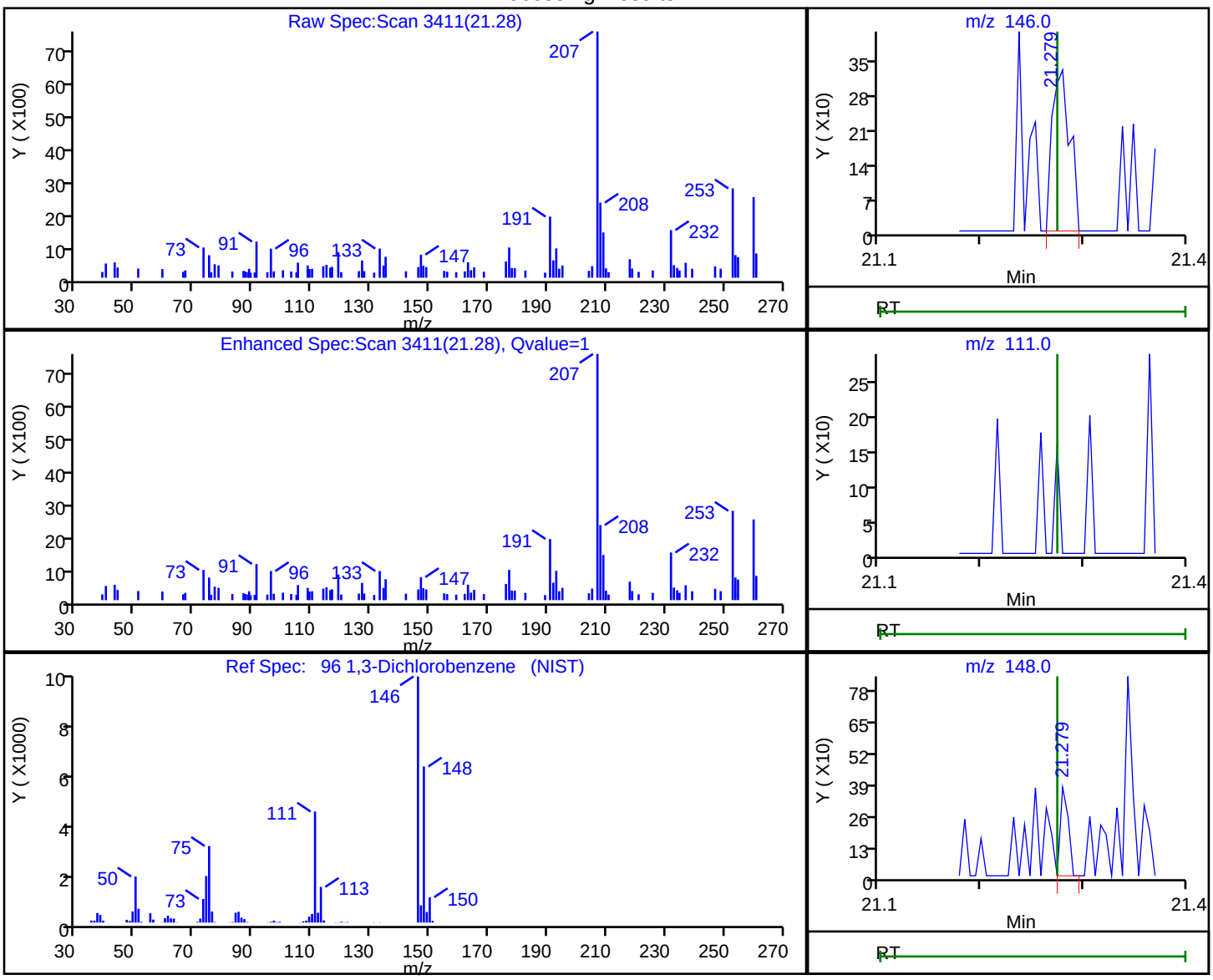
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.28 | 146.00 | 394 | 0.002446 |
| 21.28 | 148.00 | 198 | |
| 21.27 | 111.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

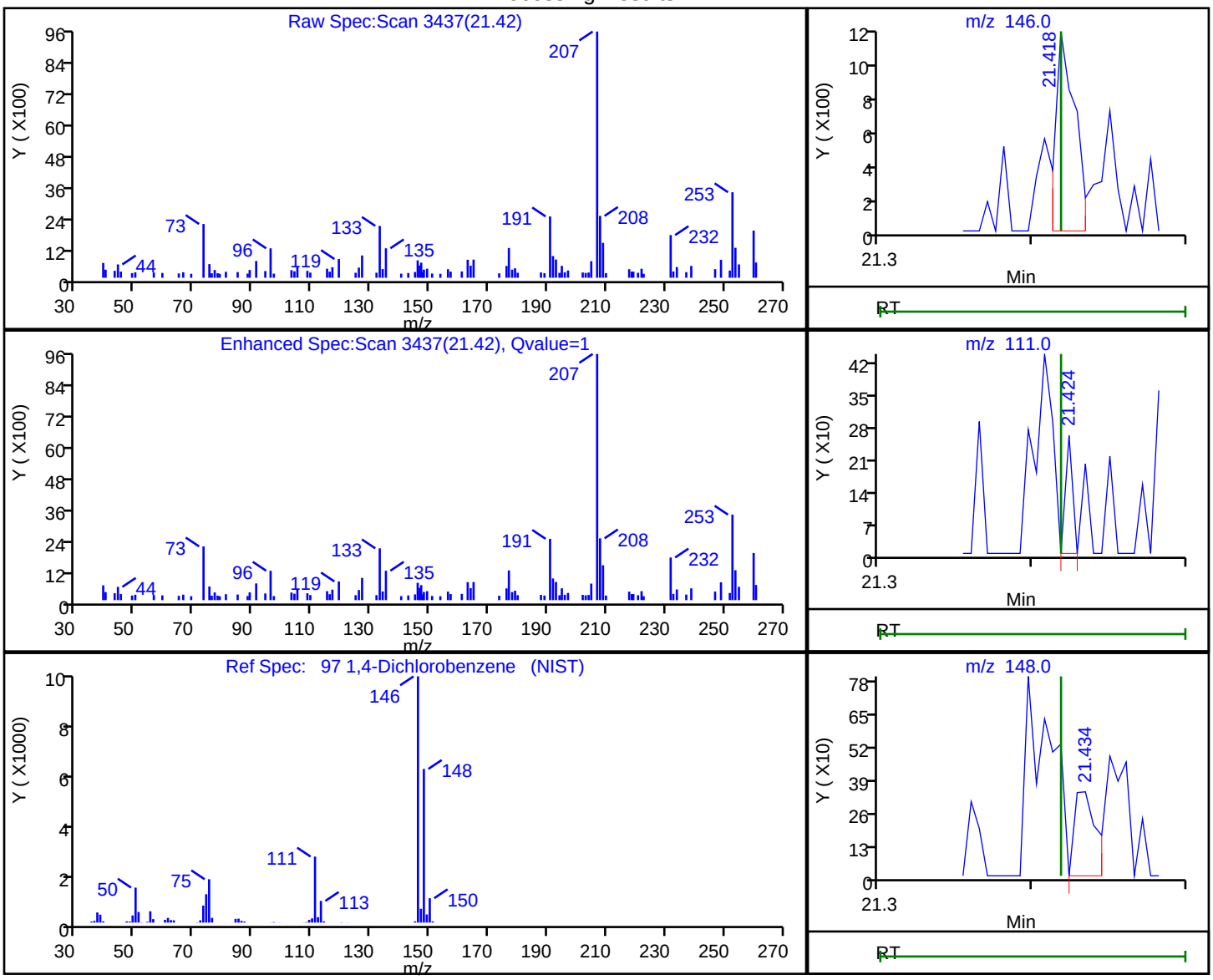
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.42 | 146.00 | 1020 | 0.006621 |
| 21.42 | 111.00 | 83 | |
| 21.43 | 148.00 | 330 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

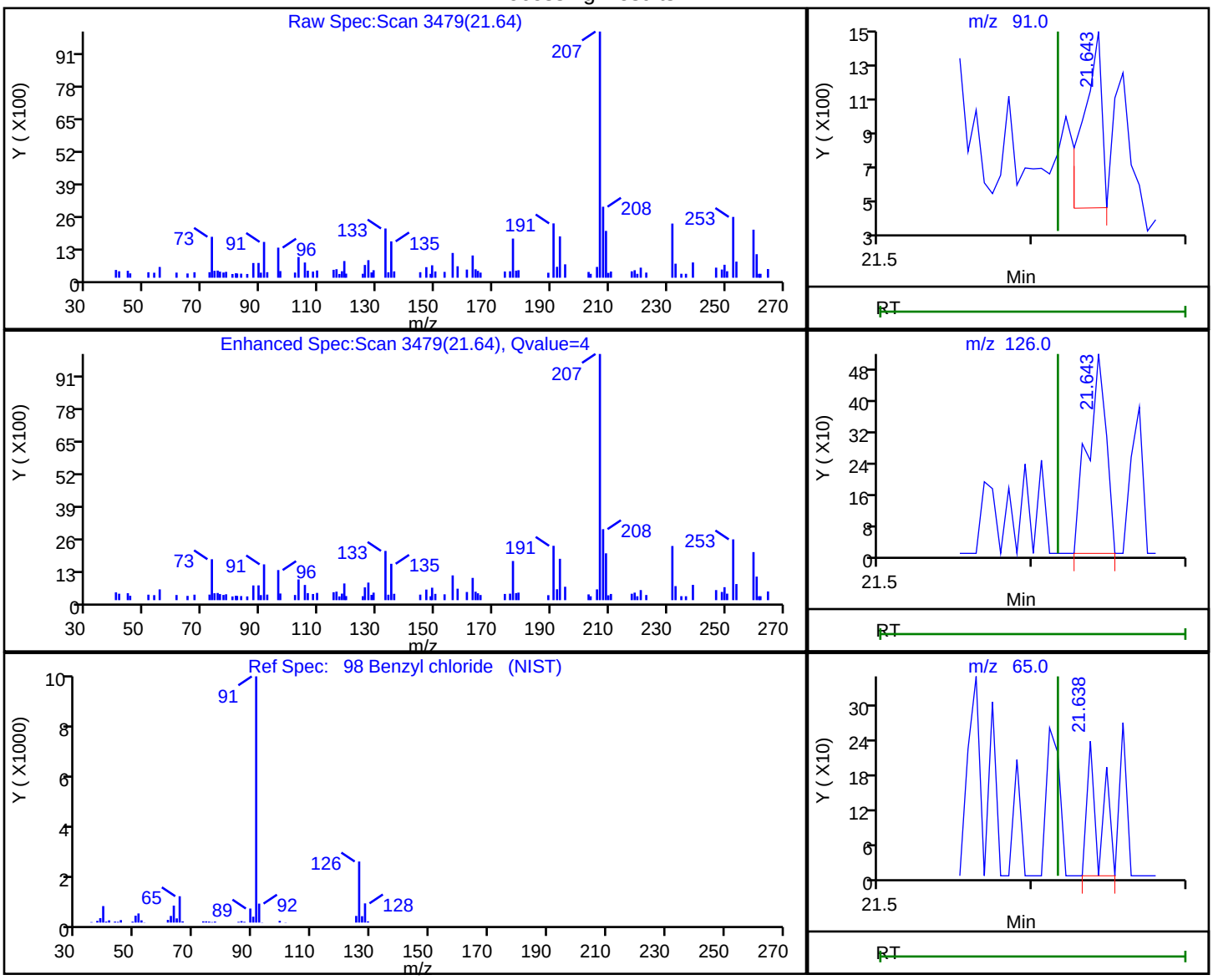
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.64 | 91.00 | 783 | 0.004117 |
| 21.64 | 126.00 | 433 | |
| 21.64 | 65.00 | 135 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

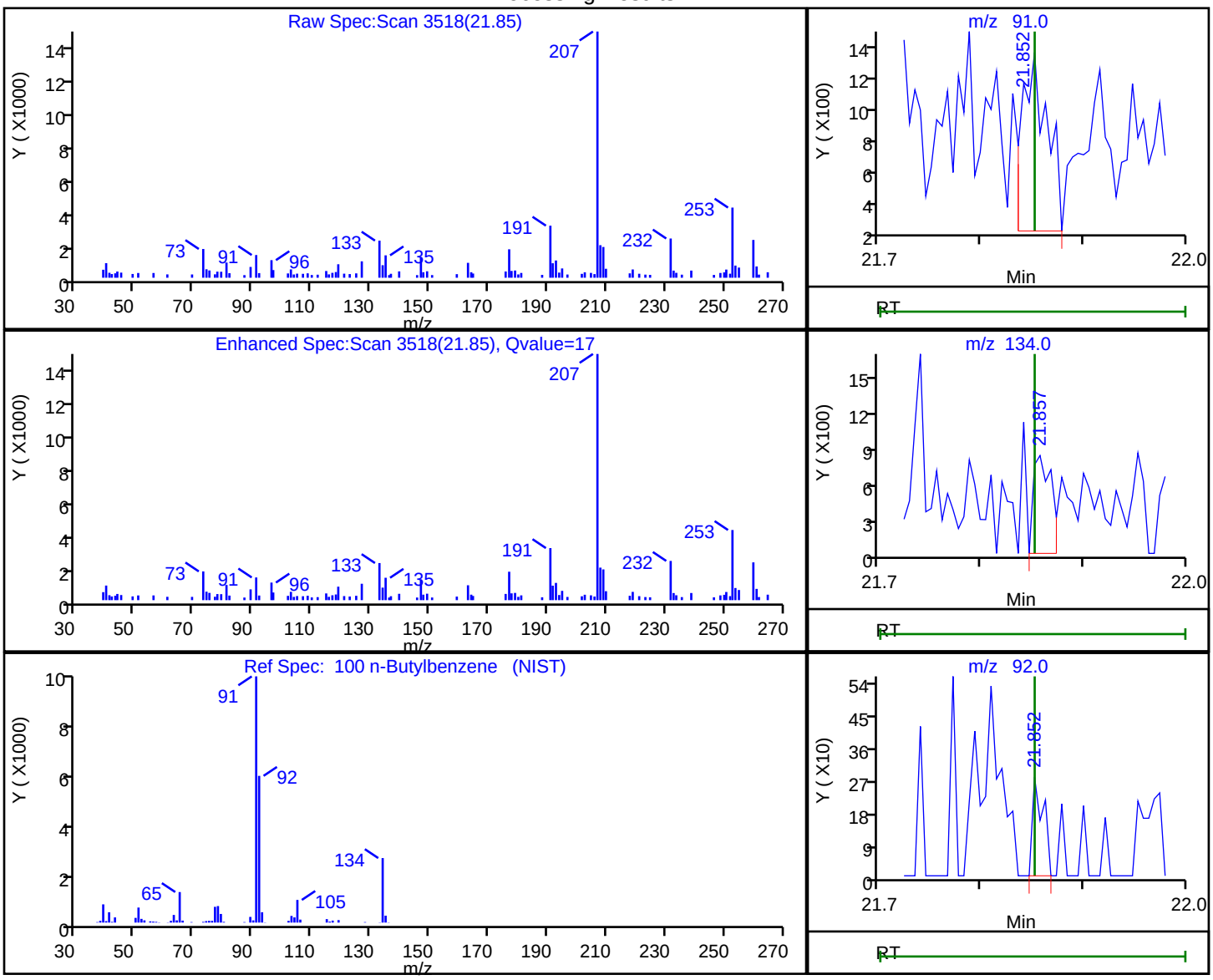
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 1826 | 0.008362 |
| 21.86 | 134.00 | 1023 | |
| 21.85 | 92.00 | 206 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

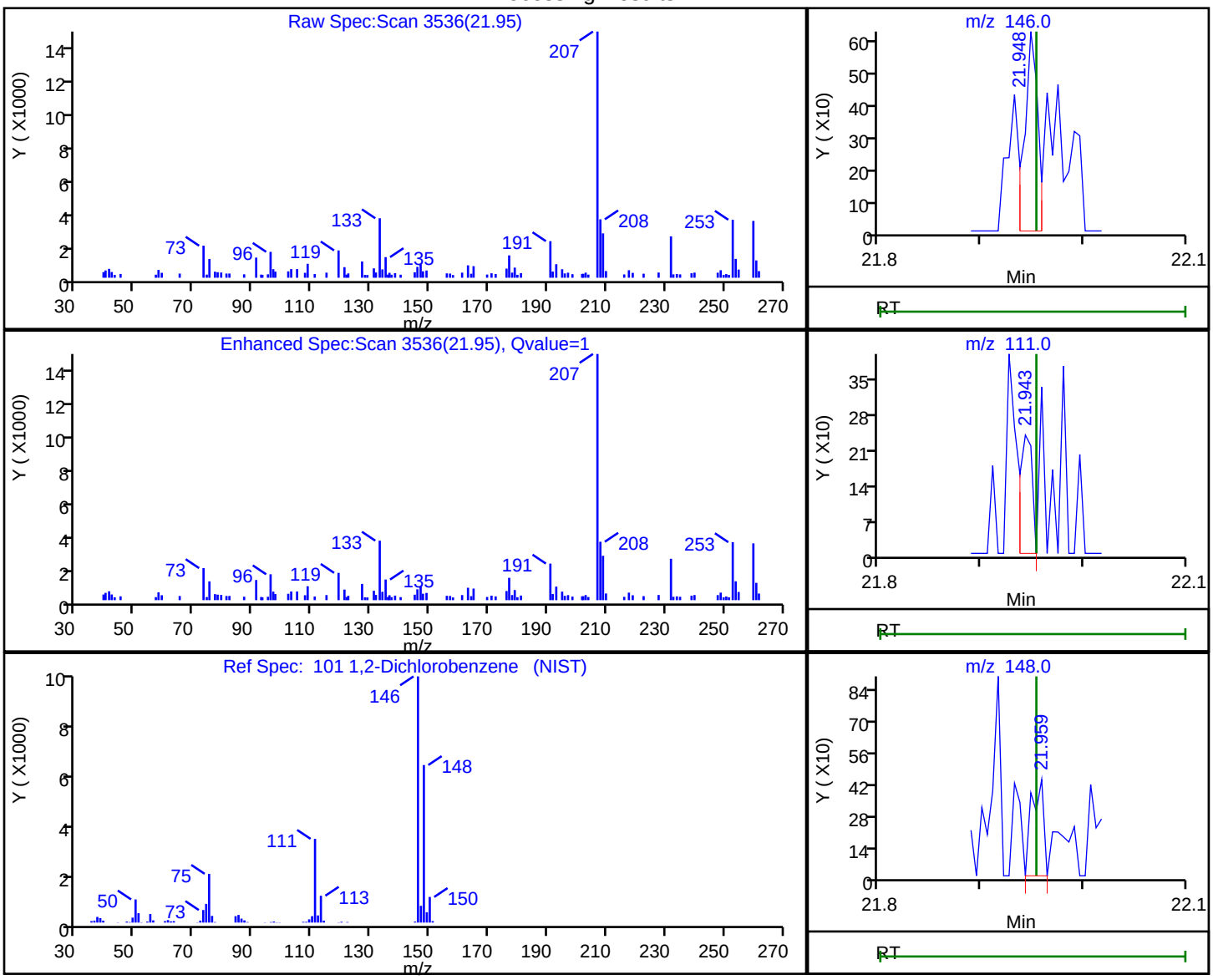
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.95 | 146.00 | 567 | 0.003830 |
| 21.94 | 111.00 | 192 | |
| 21.96 | 148.00 | 353 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

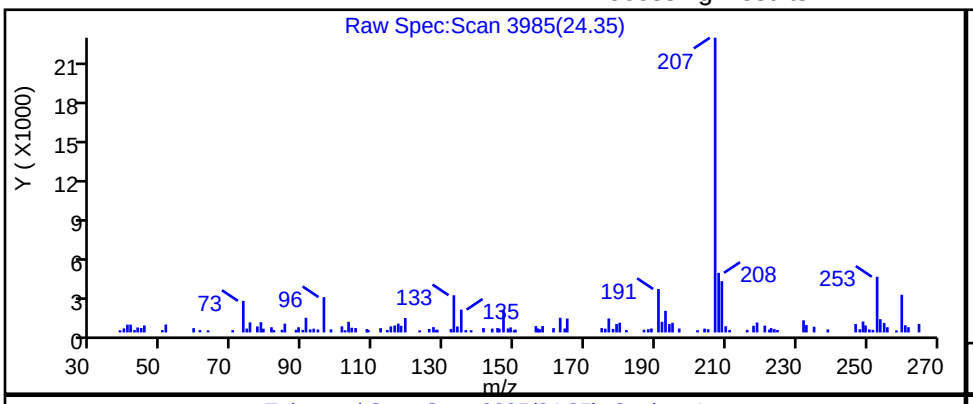
User Disabled Compound Report

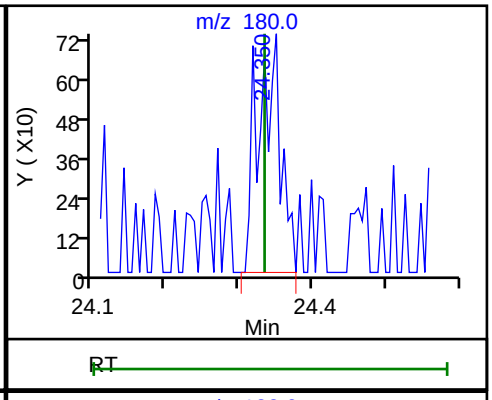
TestAmerica Burlington

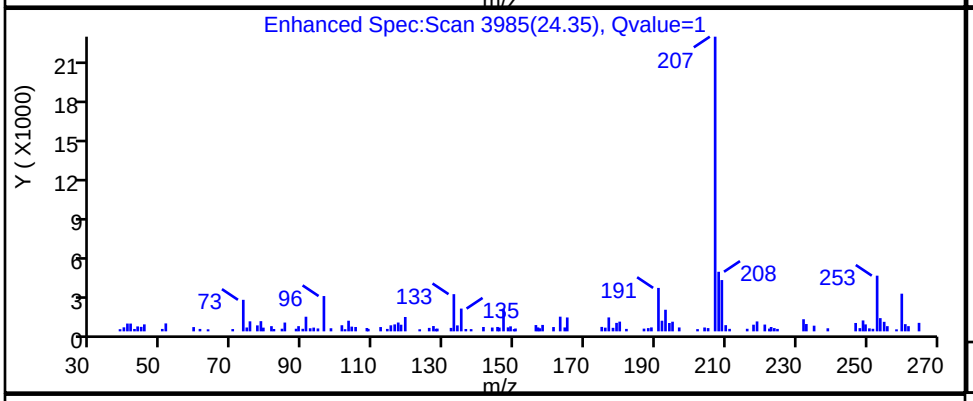
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

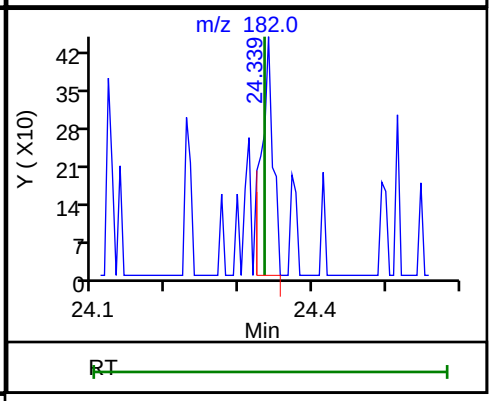
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

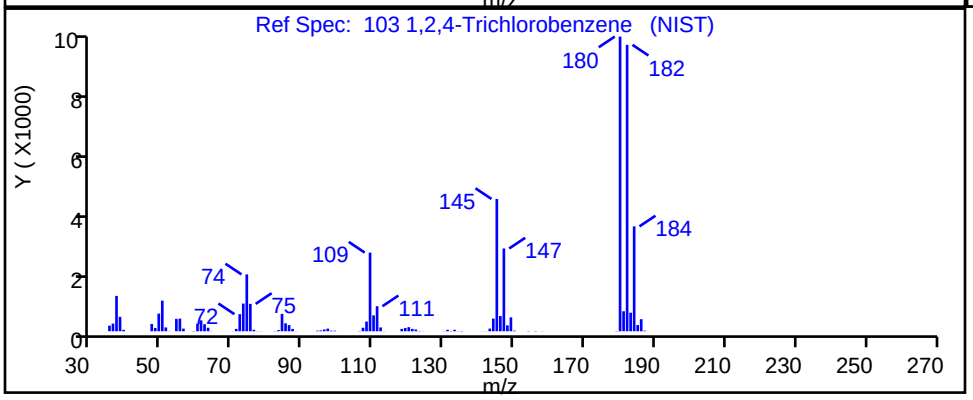
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.35 | 180.00 | 1580 | 0.014198 |
| 24.34 | 182.00 | 490 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

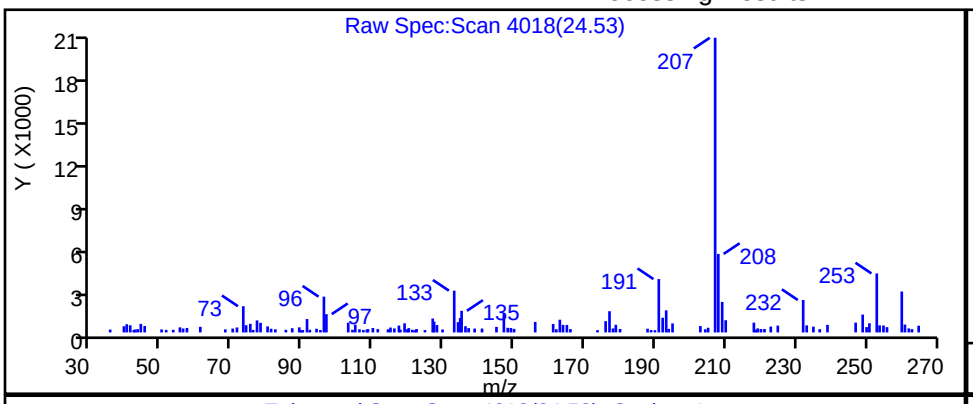
User Disabled Compound Report

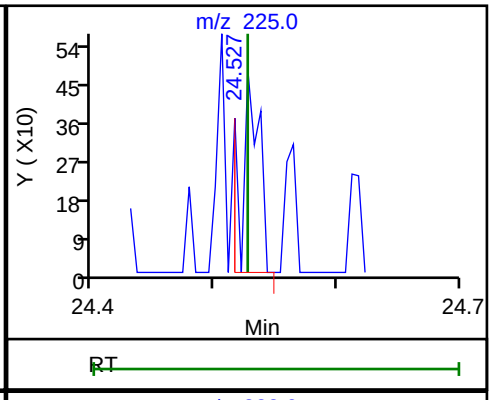
TestAmerica Burlington

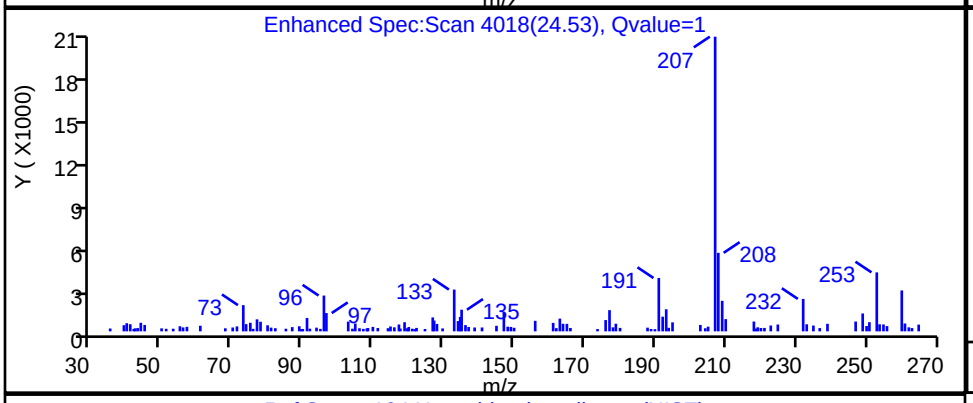
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

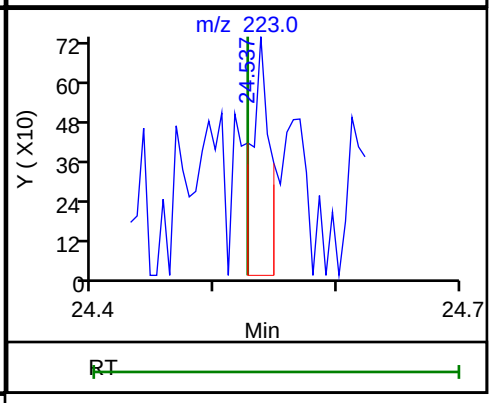
## 104 Hexachlorobutadiene, CAS: 87-68-3

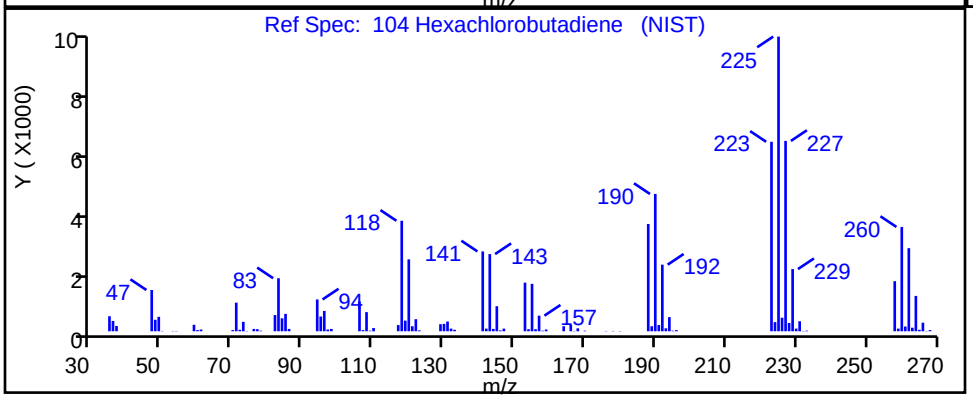
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 489 | 0.004417 |
| 24.54 | 223.00 | 747 | |

Reviewer: bunmaa, 07-Dec-2018 09:13:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

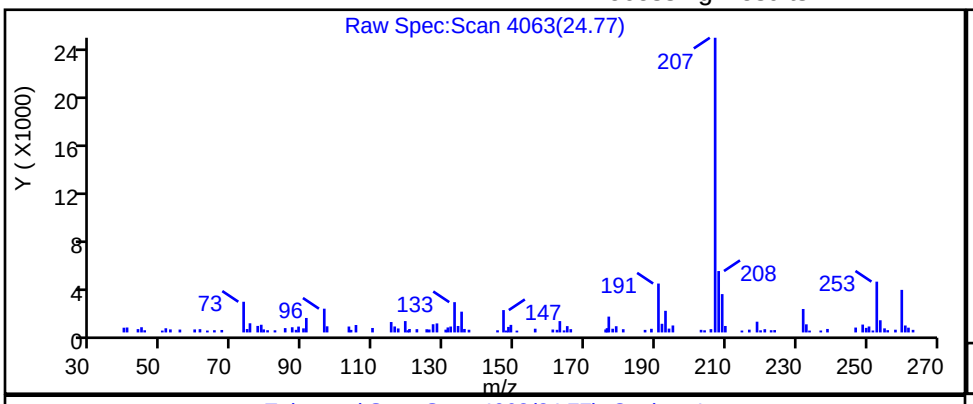
User Disabled Compound Report

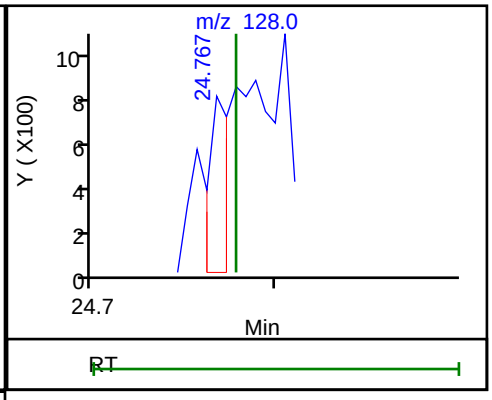
TestAmerica Burlington

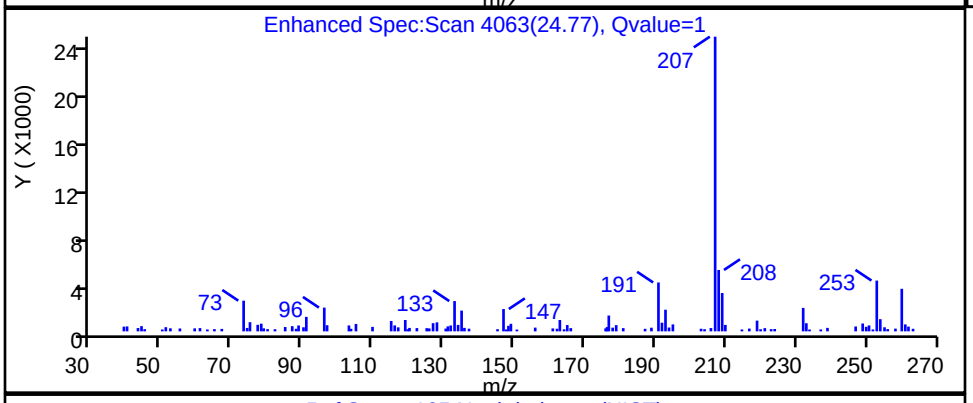
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D | | | | |
| Injection Date: | 06-Dec-2018 06:51:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-5 | Lab Sample ID: | 200-46353-5 | | |
| Client ID: | IA-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 21 | Worklist Smp#: | 21 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

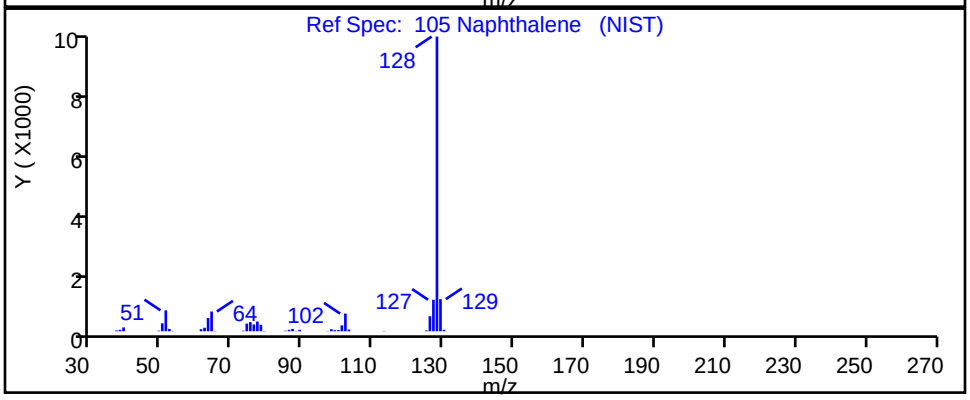
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.77 | 128.00 | 564 | 0.002614 |

Reviewer: bunmaa, 07-Dec-2018 09:13:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.51 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.62 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.4 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 100 | E | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.38 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 3.5 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.39 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.061 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.31 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.58 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.78 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.3 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 6.1 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 2.1 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120  Lab Sample ID: 200-46353-6

Matrix: Air  Lab File ID: 200-33531-022.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.3 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.3 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 240 | E | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.3 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 10 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.3 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.39 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.98 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.83 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.4 | | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.0 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 5.5 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 26 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 9.3 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120  Lab Sample ID: 200-46353-6

Matrix: Air  Lab File ID: 200-33531-022.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D
Lims ID: 200-46353-A-6
Client ID: IA-5_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 07:42:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-022
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:24:07 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: guazzonig Date: 06-Dec-2018 13:38:26

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.153 | -0.011 | 99 | 112663 | 0.5095 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.179 | -0.005 | 96 | 37556 | 0.3990 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | ND | MU |
| 5 Chloromethane | 50 | 3.460 | 3.463 | -0.005 | 98 | 26506 | 0.6160 | |
| 6 Butane | 43 | 3.604 | 3.598 | 0.000 | 97 | 136777 | 2.36 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | U |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | U |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.760 | 4.754 | 0.000 | 98 | 39279 | 0.2248 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.615 | 5.599 | 0.010 | 92 | 7483 | 0.0608 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.840 | 5.853 | -0.016 | 99 | 4744976 | 102.8 | E |
| 23 Carbon disulfide | 76 | 6.011 | 6.001 | -0.006 | 99 | 49155 | 0.3527 | |
| 24 Isopropyl alcohol | 45 | 6.108 | 6.093 | 0.011 | 100 | 99631 | 1.95 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | U |
| 27 Methylene Chloride | 49 | 6.546 | 6.552 | -0.011 | 89 | 18083 | 0.3698 | M |
| 28 2-Methyl-2-propanol | 59 | 6.787 | 6.767 | 0.016 | 90 | 16041 | 0.2058 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.937 | 6.943 | -0.011 | 81 | 6204 | 0.0945 | |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | 7.285 | 7.275 | 0.006 | 90 | 19682 | 0.3761 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.788 | 0.000 | 100 | 58778 | 3.55 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.152 | 0.000 | 75 | 592709 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | |
| 42 Chloroform | 83 | 9.275 | 9.275 | 0.006 | 86 | 5141 | 0.0415 | M |
| 43 Cyclohexane | 84 | 9.537 | 9.515 | 0.006 | 95 | 23531 | 0.3893 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | |
| 45 Carbon tetrachloride | 117 | 9.778 | 9.778 | -0.005 | 89 | 9577 | 0.0613 | |
| 46 Isooctane | 57 | 10.200 | 10.190 | 0.005 | 68 | 25072 | 0.1254 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 47 Benzene | 78 | 10.216 | 10.216 | 0.000 | 97 | 42873 | 0.3057 | |
| 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | MU |
| 49 n-Heptane | 43 | 10.559 | 10.559 | -0.016 | 89 | 14617 | 0.2026 | M |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2633468 | 10.0 | |
| 53 Trichloroethene | 95 | | 11.484 | | | | ND | |
| 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| 55 Methyl methacrylate | 69 | 12.196 | 12.196 | -0.010 | 36 | 2062 | 0.0505 | M |
| 56 1,4-Dioxane | 88 | 12.297 | 12.335 | 0.011 | 91 | 40372 | 1.57 | |
| 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.801 | 13.827 | 0.011 | 97 | 52748 | 0.5784 | |
| 65 Toluene | 92 | 14.063 | 14.068 | -0.005 | 94 | 79489 | 0.7850 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| 68 Tetrachloroethene | 166 | 15.133 | 15.143 | -0.010 | 93 | 14441 | 0.1191 | |
| 69 2-Hexanone | 43 | | 15.507 | | | | ND | MU |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 85 | 2499919 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| 76 Ethylbenzene | 91 | 17.176 | 17.187 | -0.006 | 98 | 289954 | 1.27 | |
| 78 m-Xylene & p-Xylene | 106 | 17.433 | 17.438 | 0.000 | 0 | 561638 | 6.08 | |
| 79 o-Xylene | 106 | 18.284 | 18.294 | -0.010 | 98 | 187813 | 2.14 | |
| 80 Styrene | 104 | 18.342 | 18.342 | 0.005 | 46 | 2587 | 0.0192 | M |
| 81 Bromoform | 173 | | 18.781 | | | | ND | |
| 82 Isopropylbenzene | 105 | 19.049 | 19.049 | 0.000 | 40 | 5027 | 0.0196 | M |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| 85 N-Propylbenzene | 91 | 19.846 | 19.846 | 0.000 | 80 | 7785 | 0.0255 | M |
| 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | |
| 88 4-Ethyltoluene | 105 | 20.060 | 20.060 | 0.006 | 41 | 8807 | 0.0338 | M |
| 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.167 | 0.000 | 86 | 8472 | 0.0380 | |
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.792 | 0.000 | 98 | 26526 | 0.1207 | |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | MU |
| 95 4-Isopropyltoluene | 119 | 21.258 | 21.275 | -0.011 | 65 | 5527 | 0.0209 | |
| 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| 97 1,4-Dichlorobenzene | 146 | 21.419 | 21.419 | 0.001 | 55 | 5266 | 0.0309 | a |
| 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

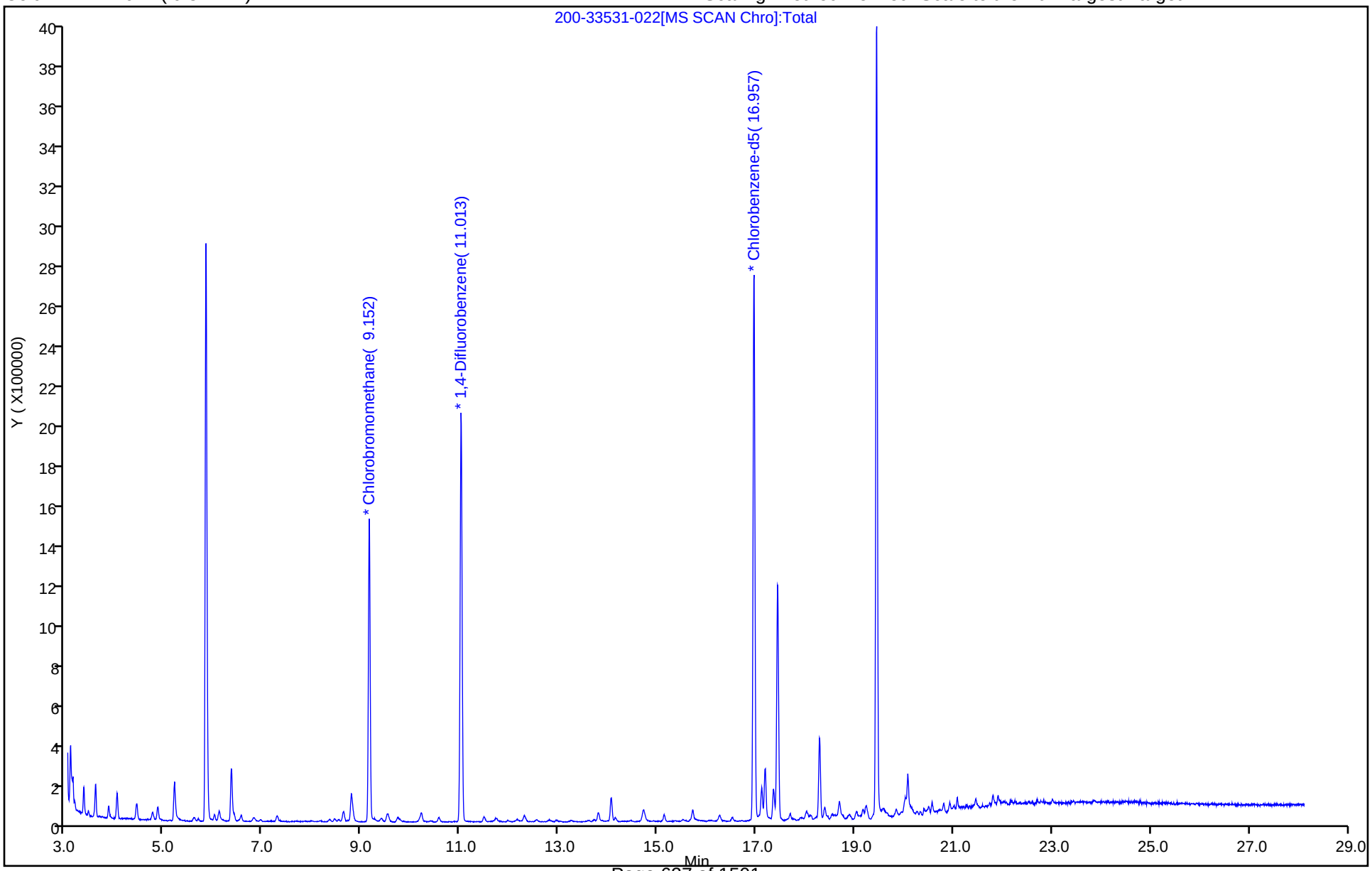
Report Date: 07-Dec-2018 09:24:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | Worklist Smp#: | 22 |
| Client ID: | IA-5_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 22 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



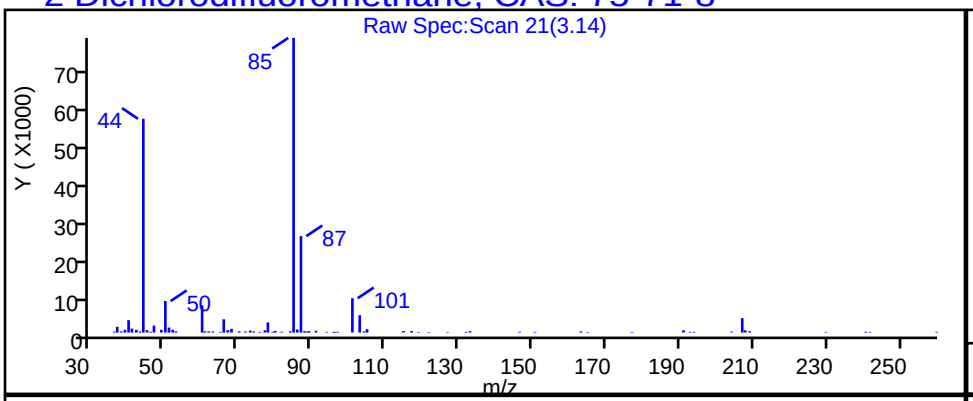
Report Date: 07-Dec-2018 09:24:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

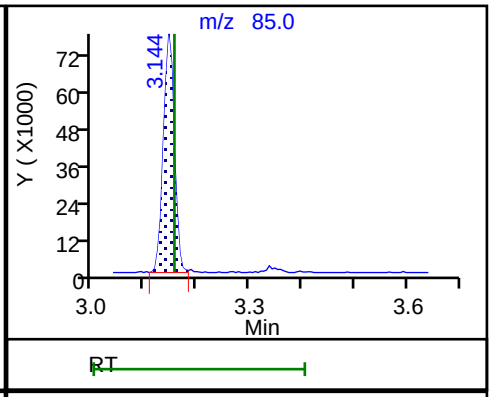
TestAmerica Burlington

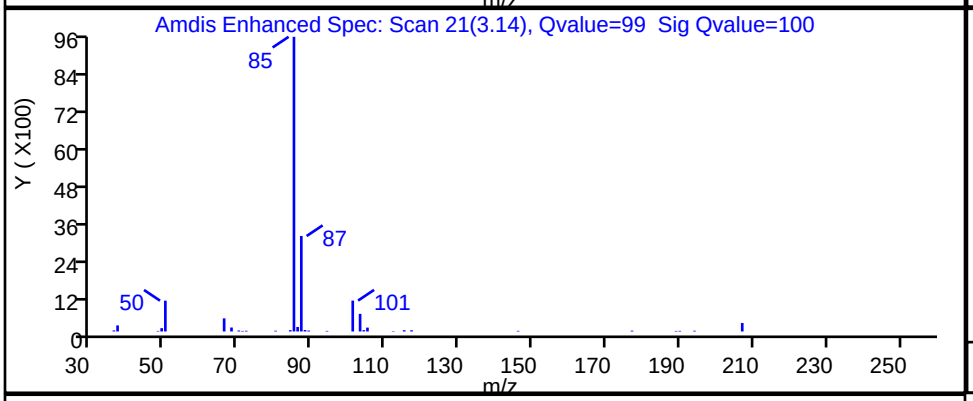
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

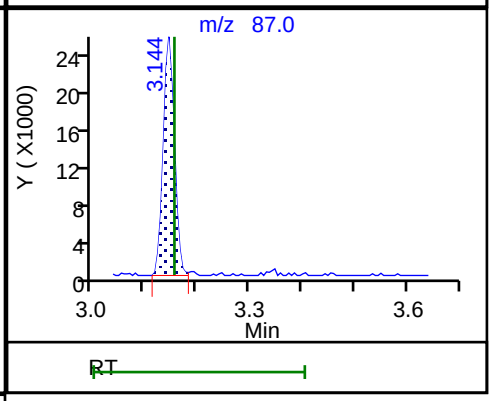
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

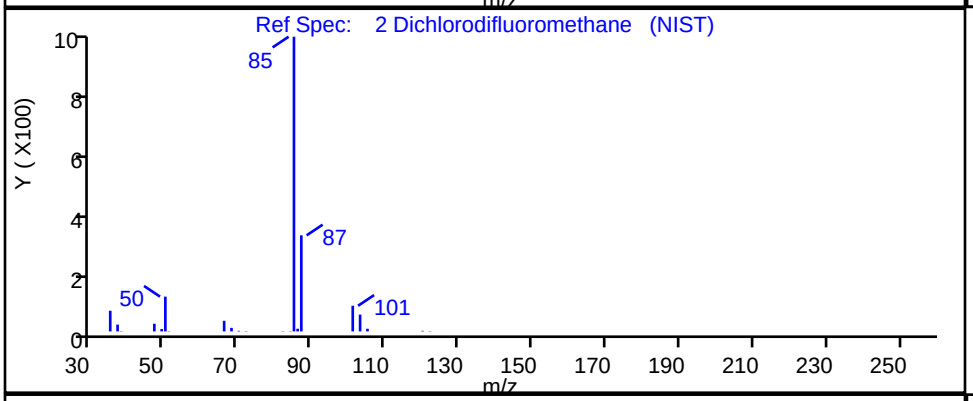
## 2 Dichlorodifluoromethane, CAS: 75-71-8

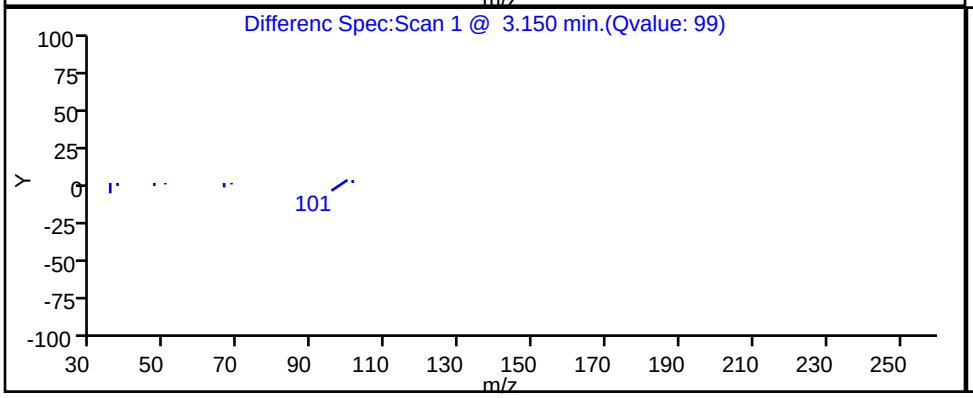


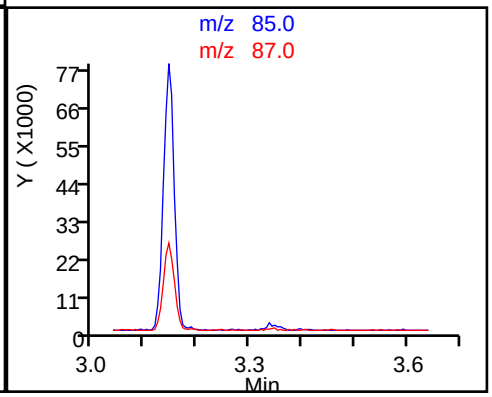



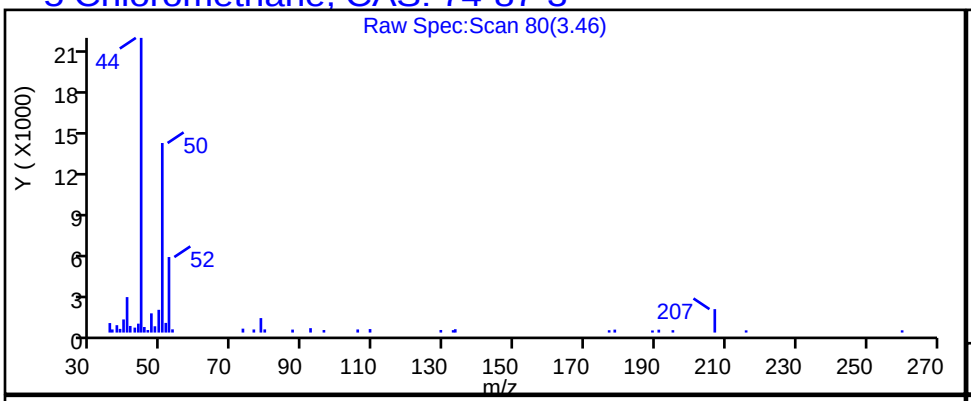
Report Date: 07-Dec-2018 09:24:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

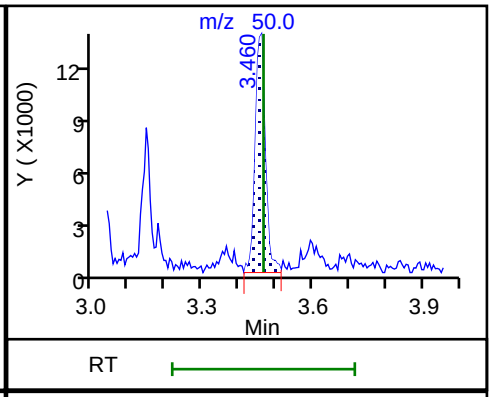
TestAmerica Burlington

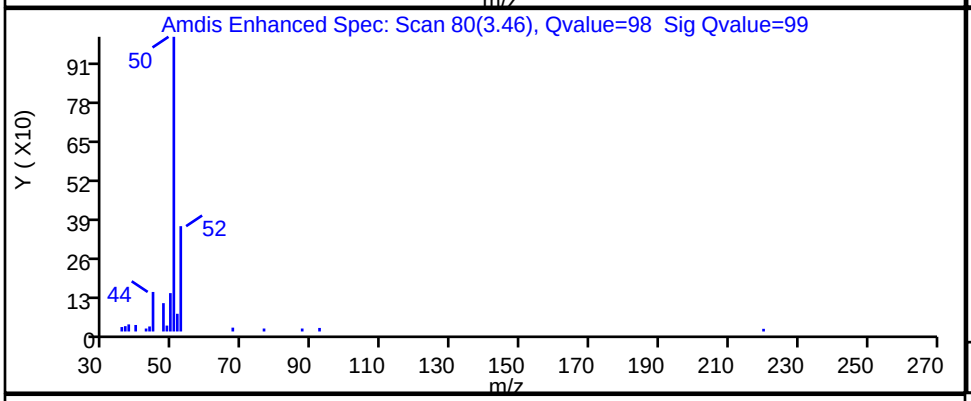
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

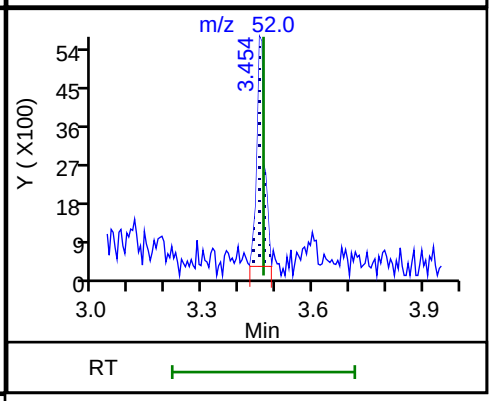
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

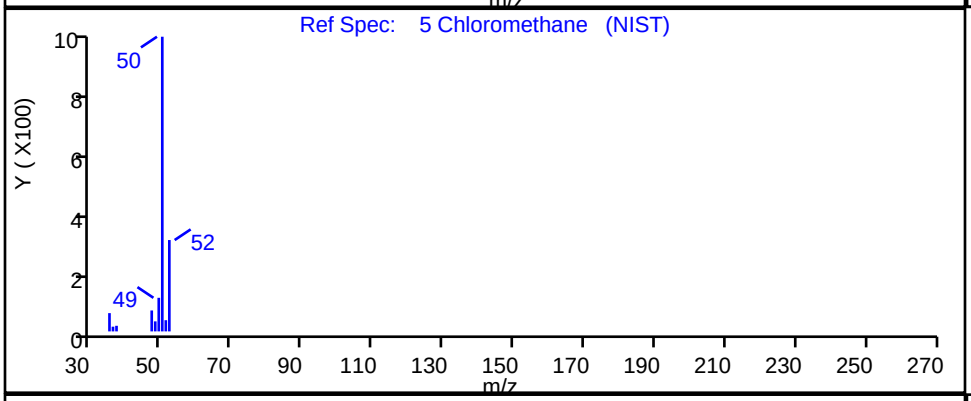
## 5 Chloromethane, CAS: 74-87-3

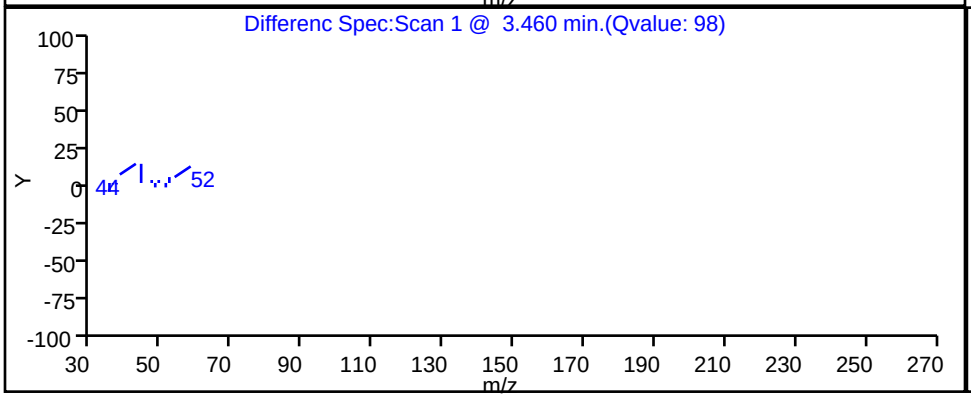


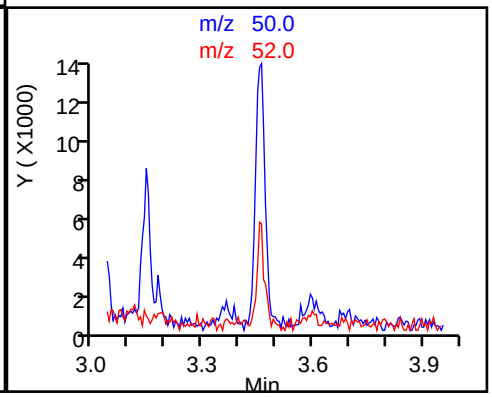



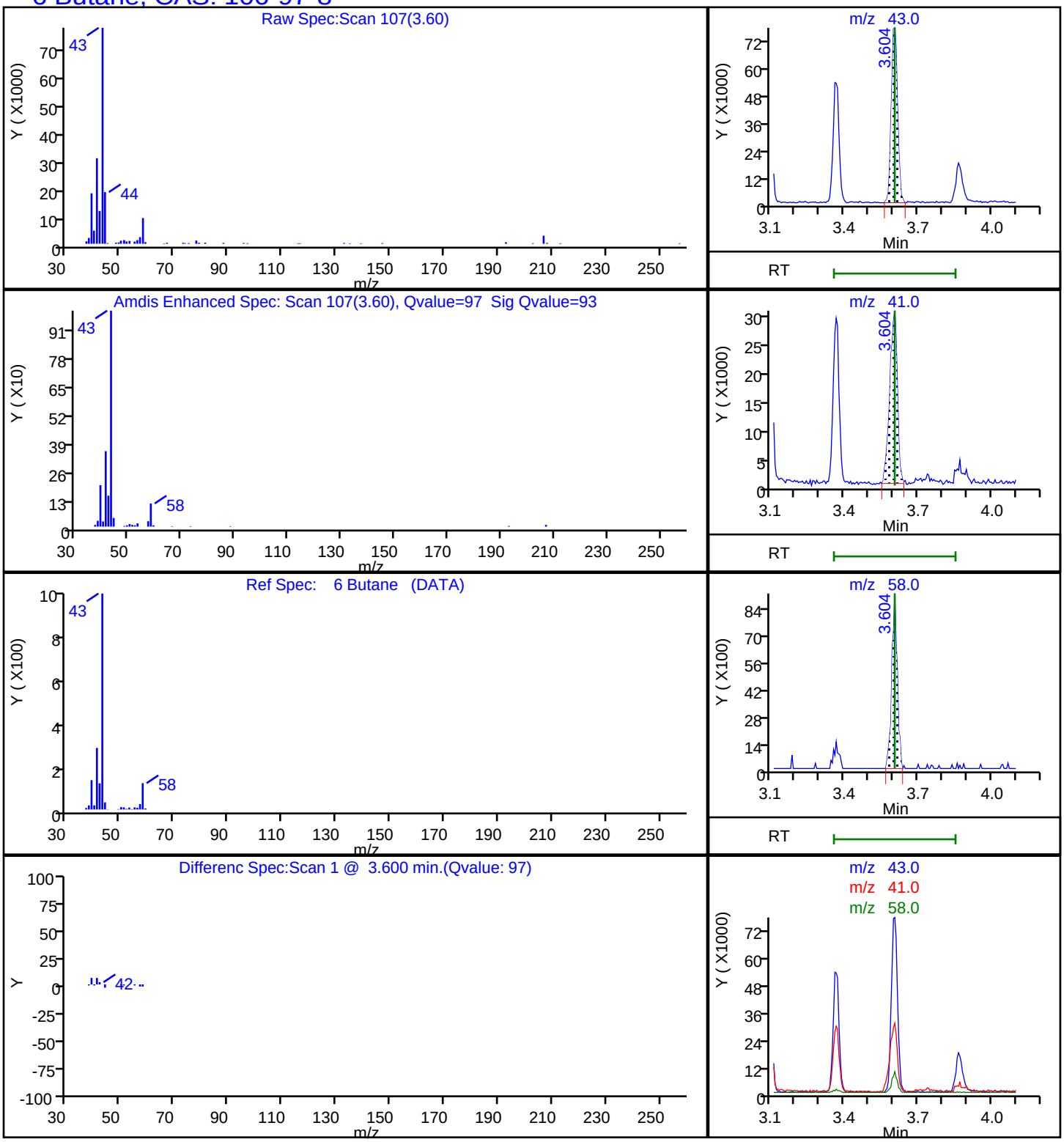
Report Date: 07-Dec-2018 09:24:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



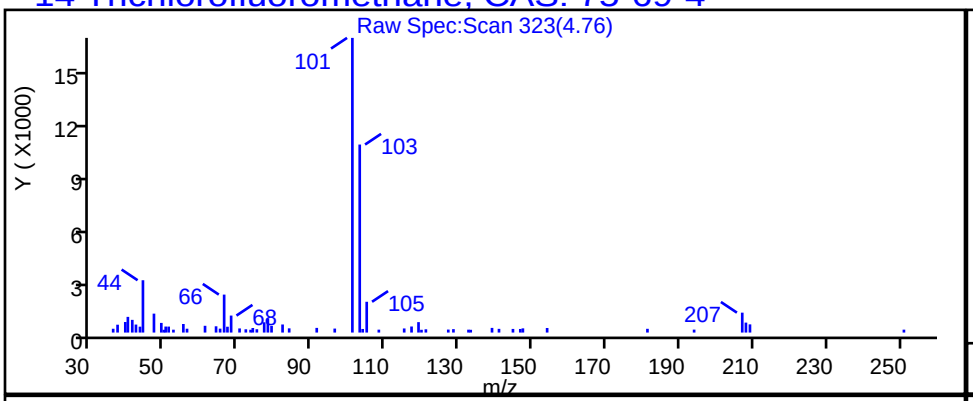
Report Date: 07-Dec-2018 09:24:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

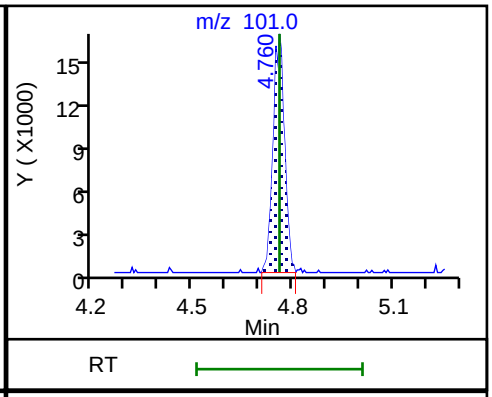
TestAmerica Burlington

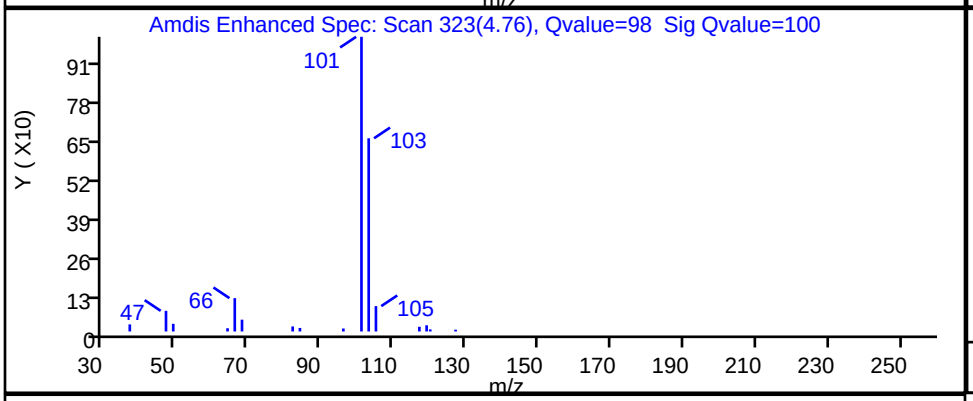
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

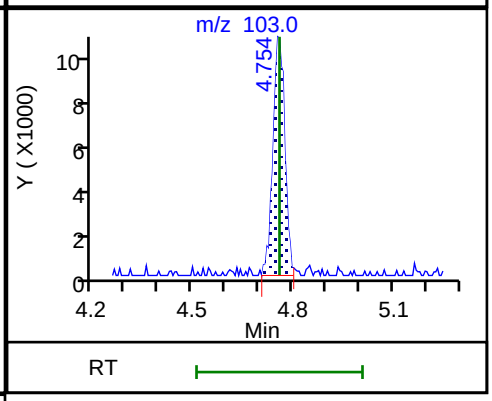
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

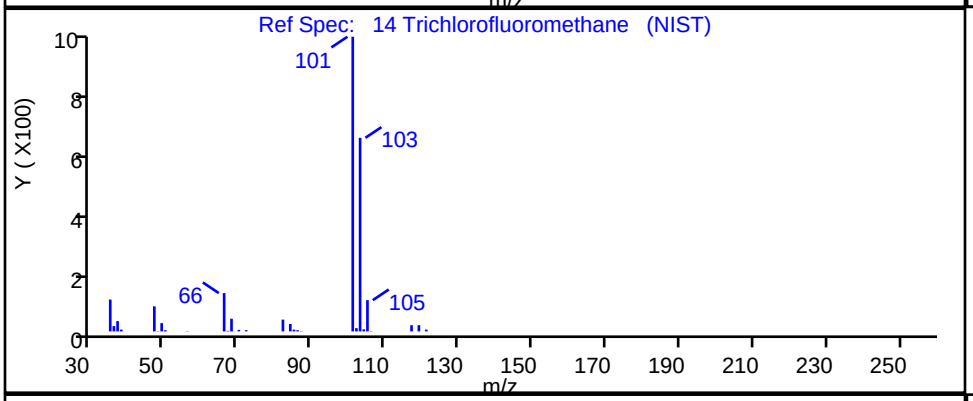
## 14 Trichlorofluoromethane, CAS: 75-69-4

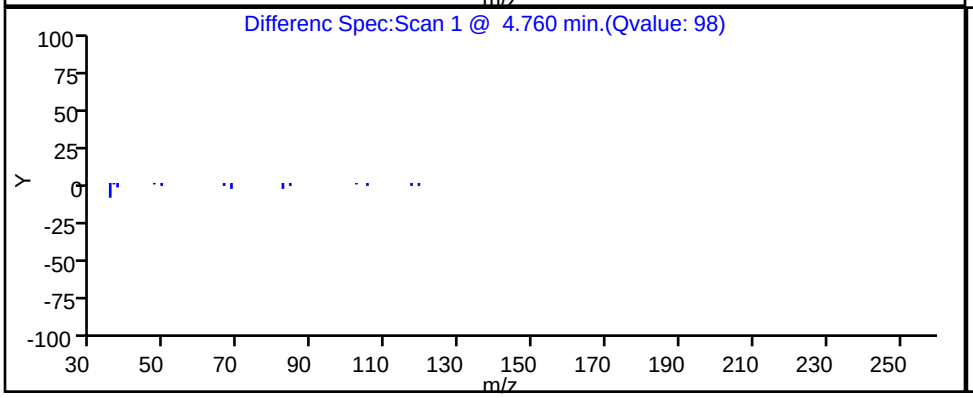


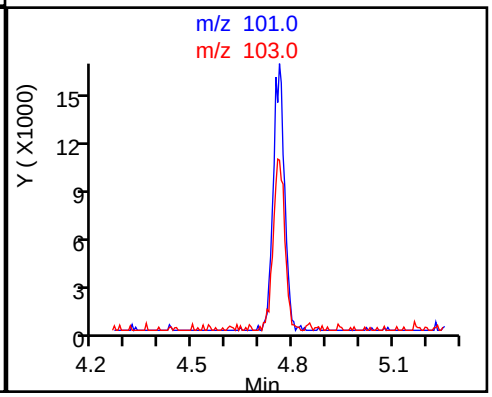



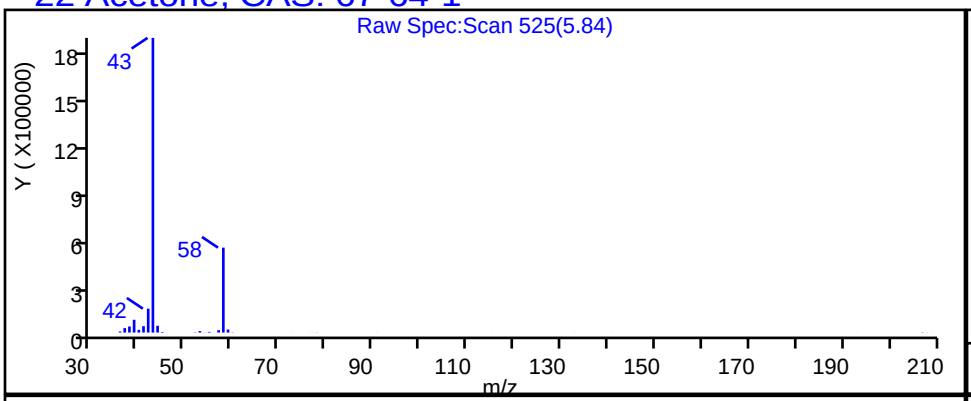
Report Date: 07-Dec-2018 09:24:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

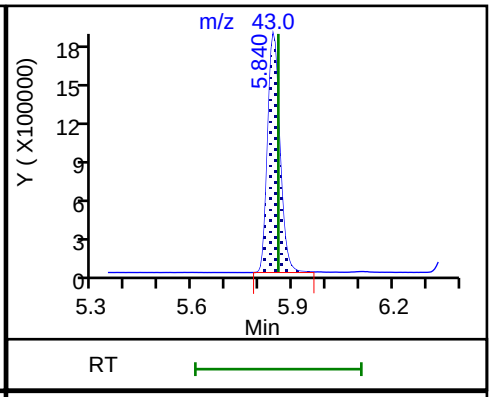
TestAmerica Burlington

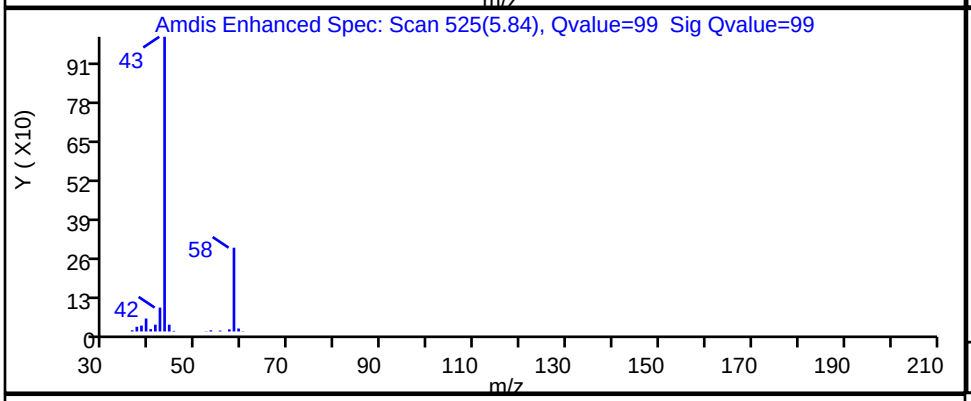
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

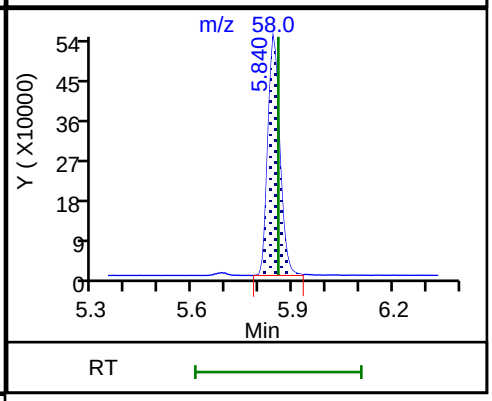
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

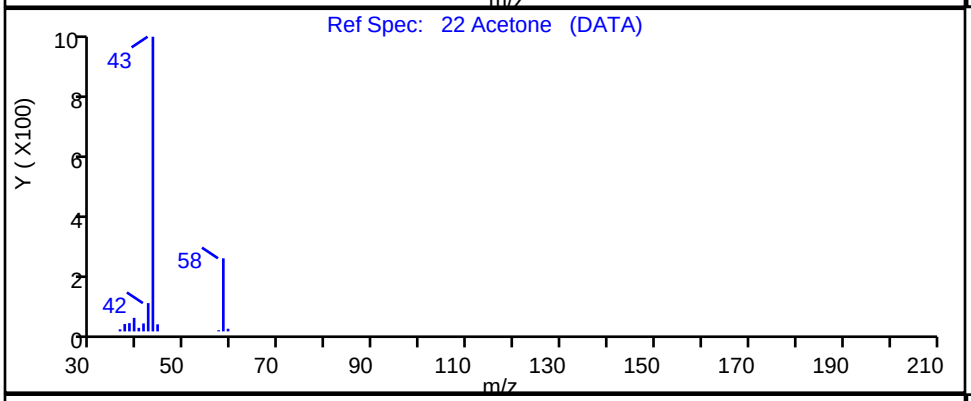
## 22 Acetone, CAS: 67-64-1

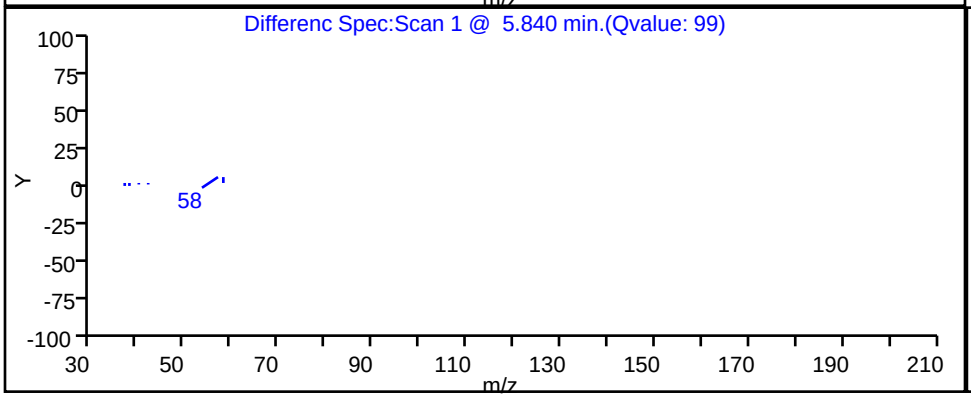


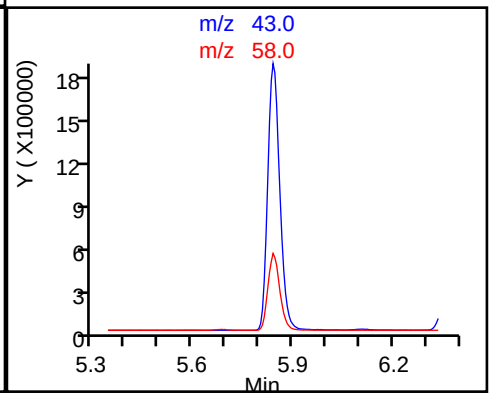



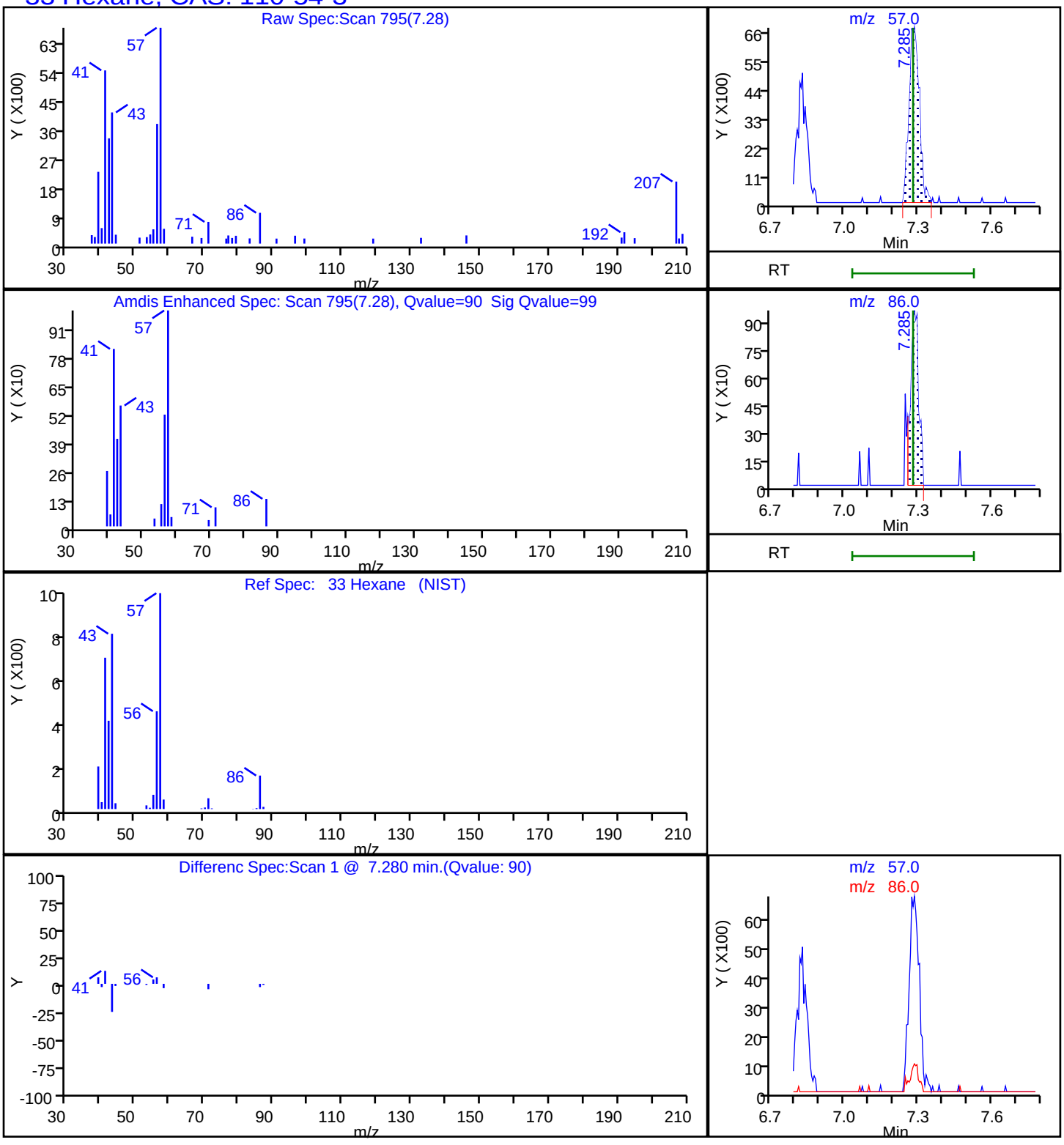



Report Date: 07-Dec-2018 09:24:22 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



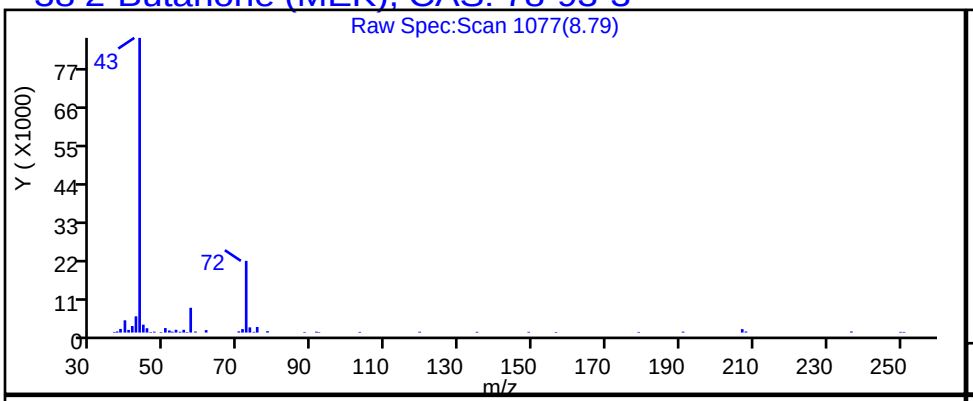
Report Date: 07-Dec-2018 09:24:22 Chrom Revision: 2.3 21-Nov-2018 13:56:44

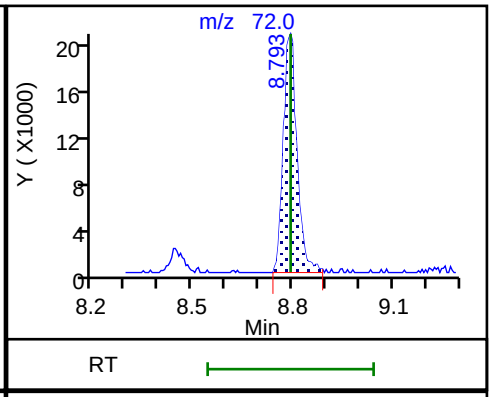
TestAmerica Burlington

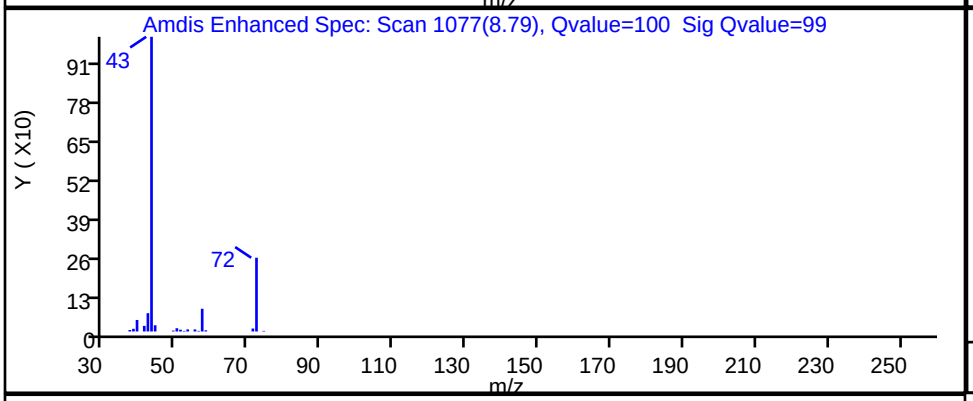
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

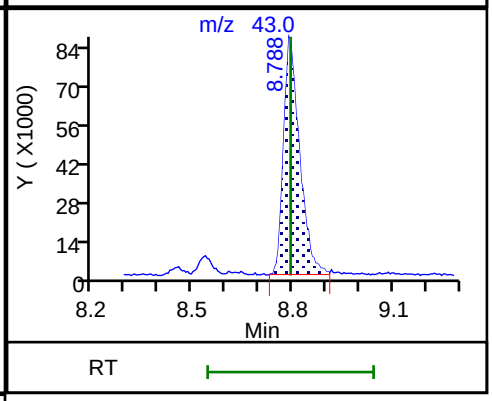
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

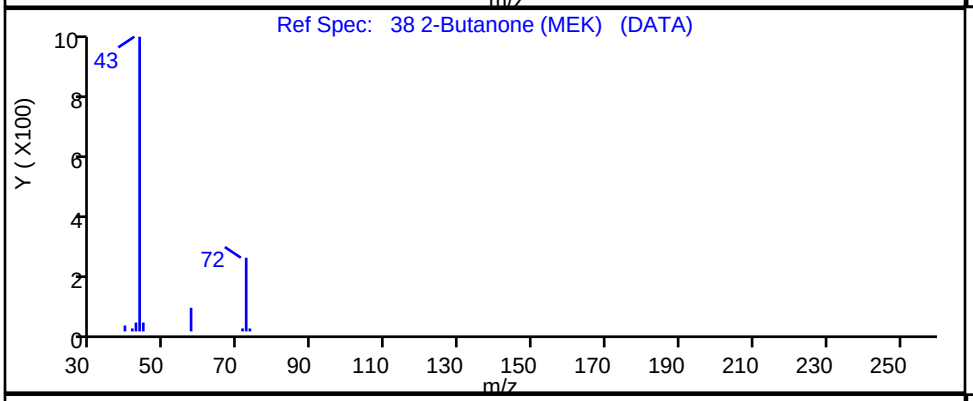
## 38 2-Butanone (MEK), CAS: 78-93-3

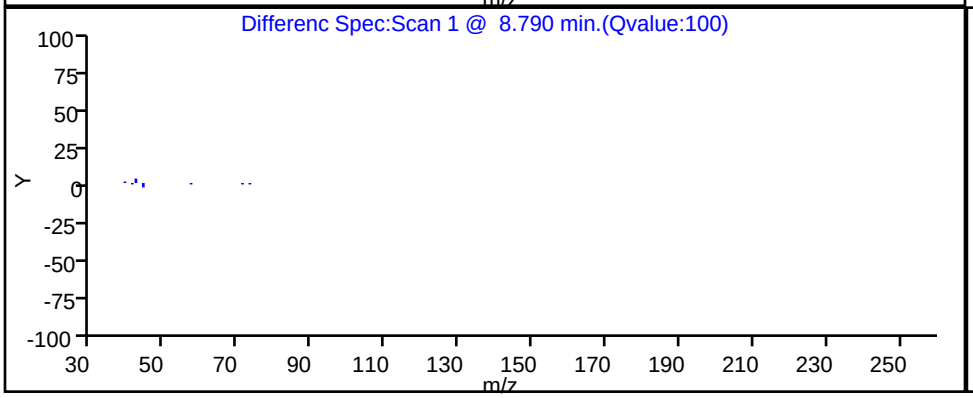


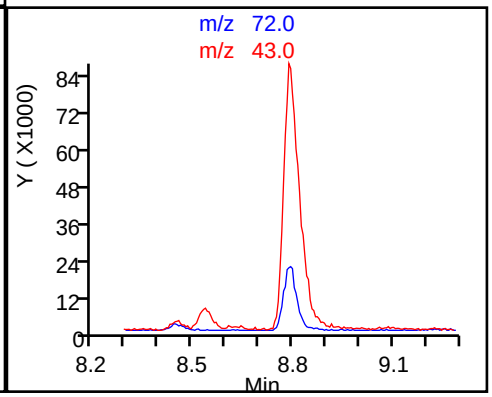



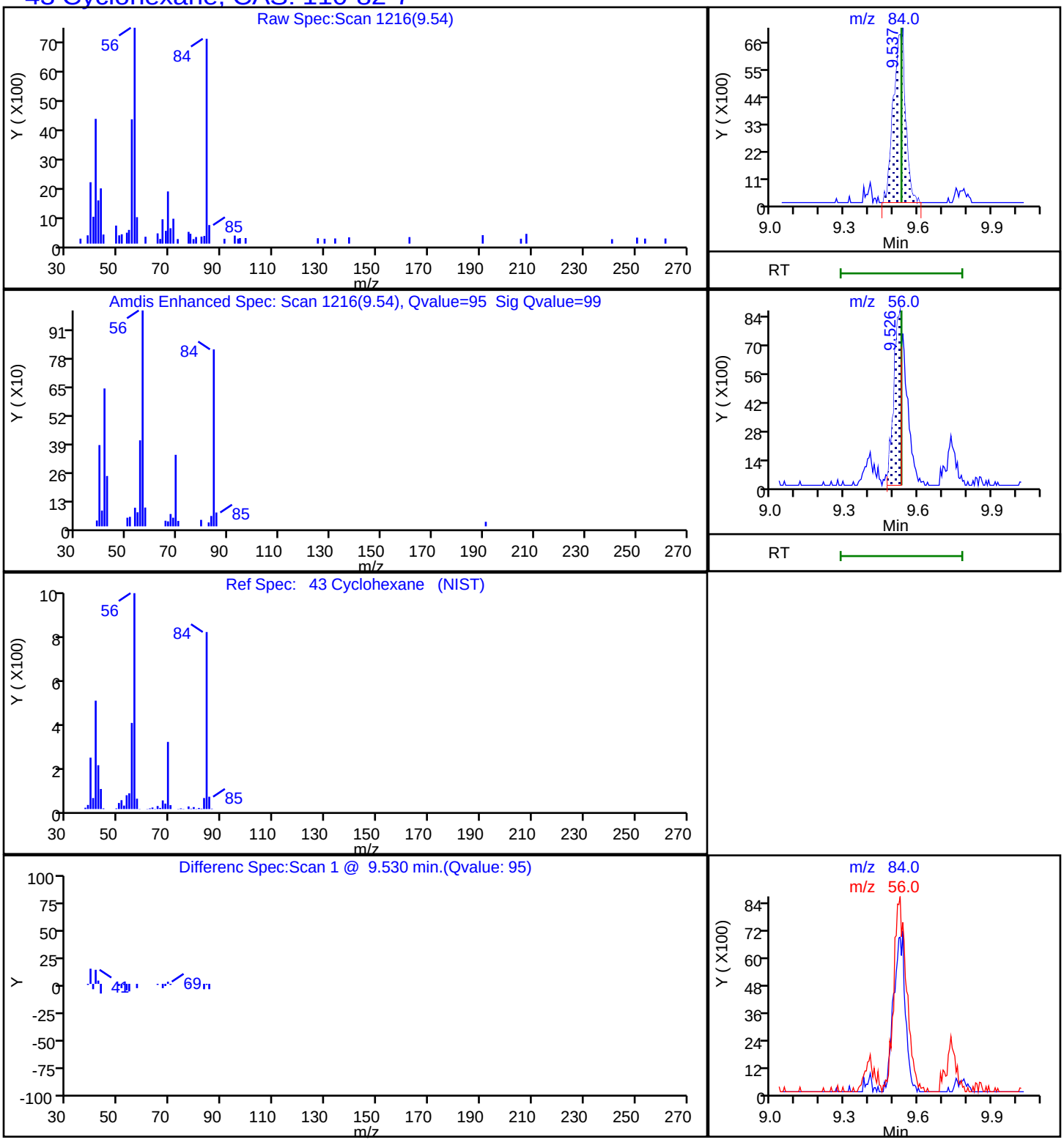
Report Date: 07-Dec-2018 09:24:22 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7



Report Date: 07-Dec-2018 09:24:23 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
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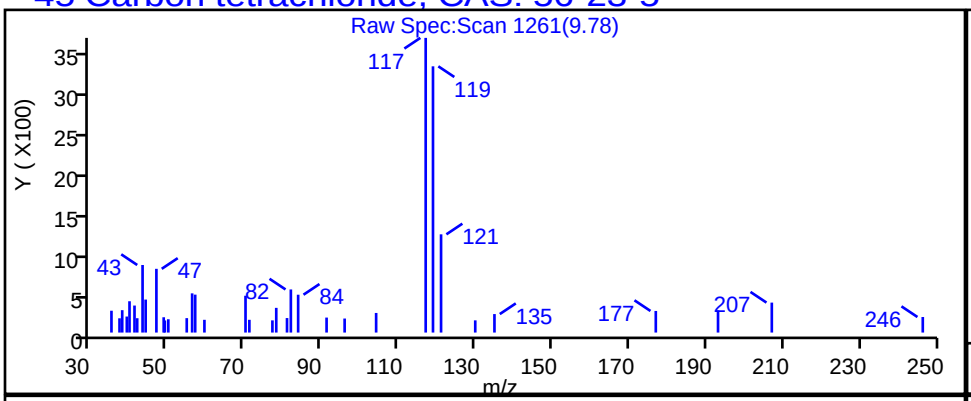
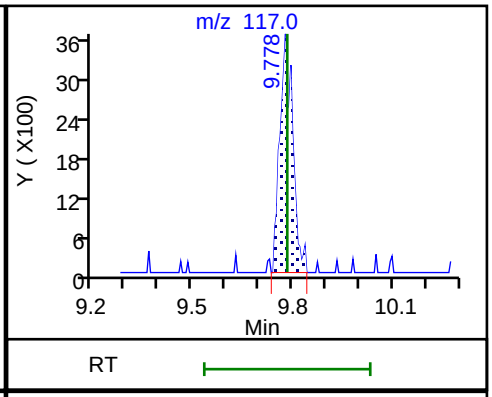
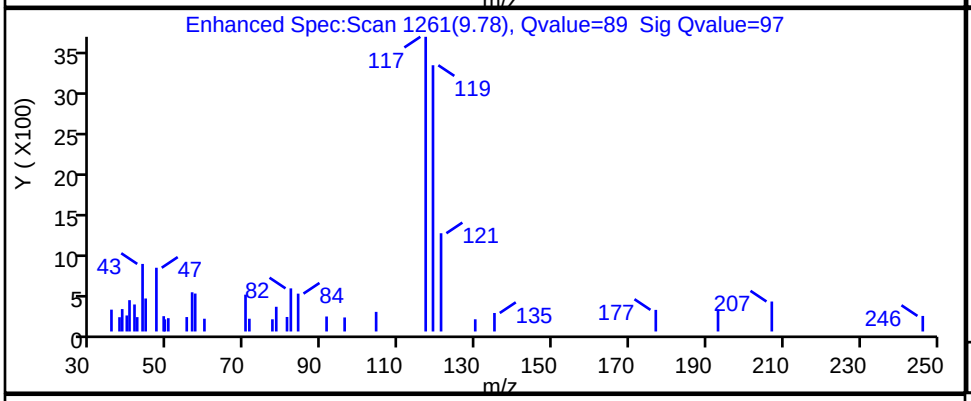
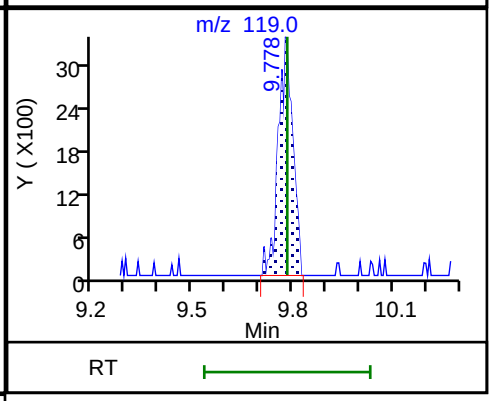
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

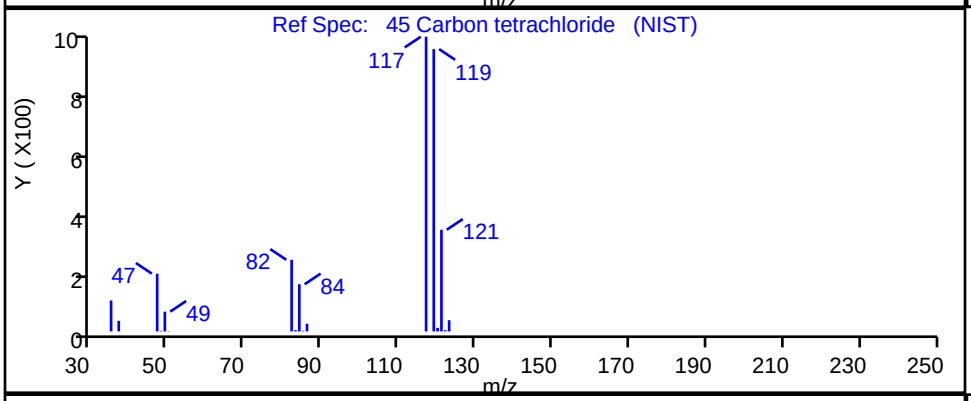
## 45 Carbon tetrachloride, CAS: 56-23-5

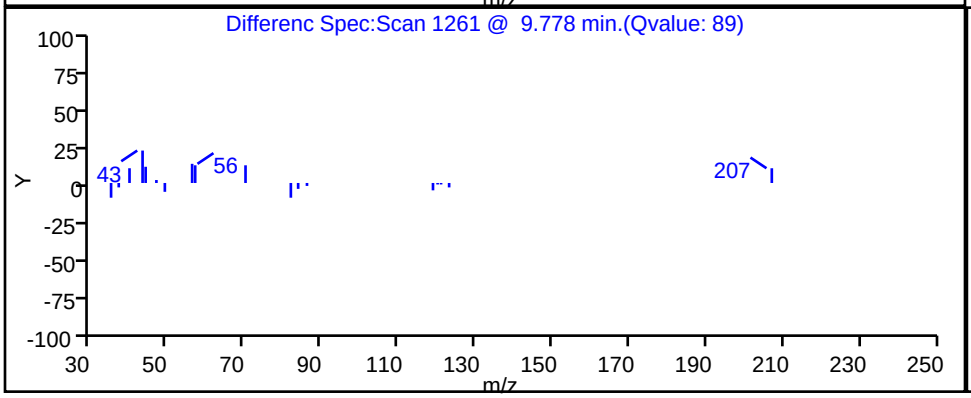


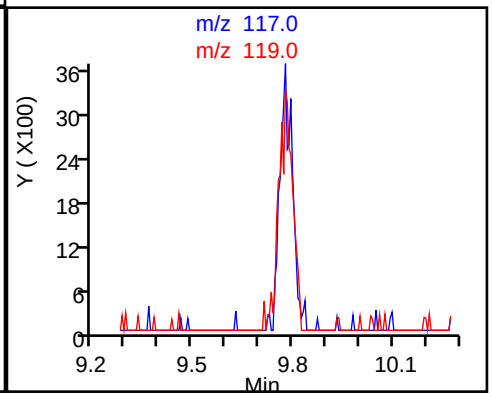



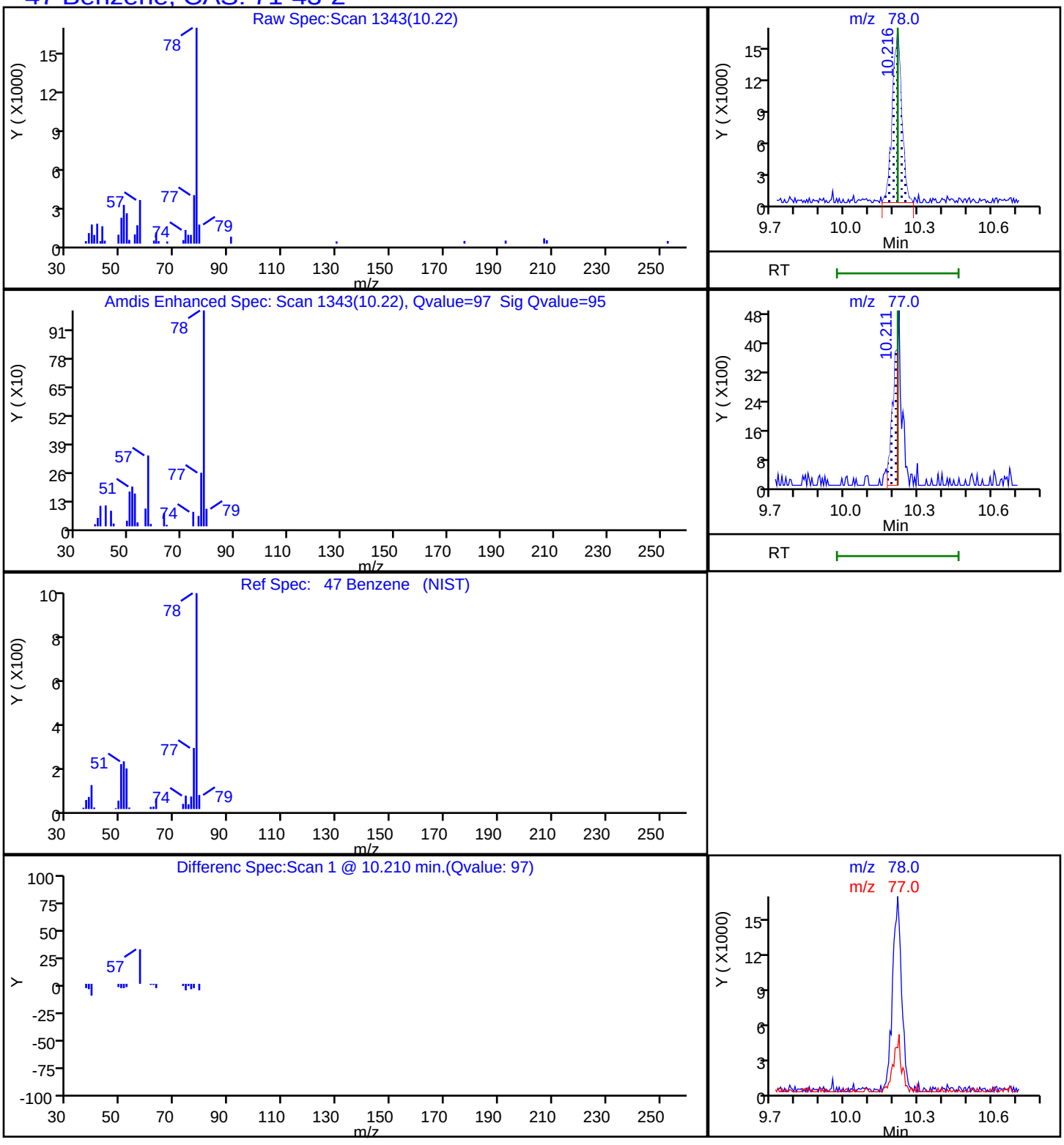
Report Date: 07-Dec-2018 09:24:23 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



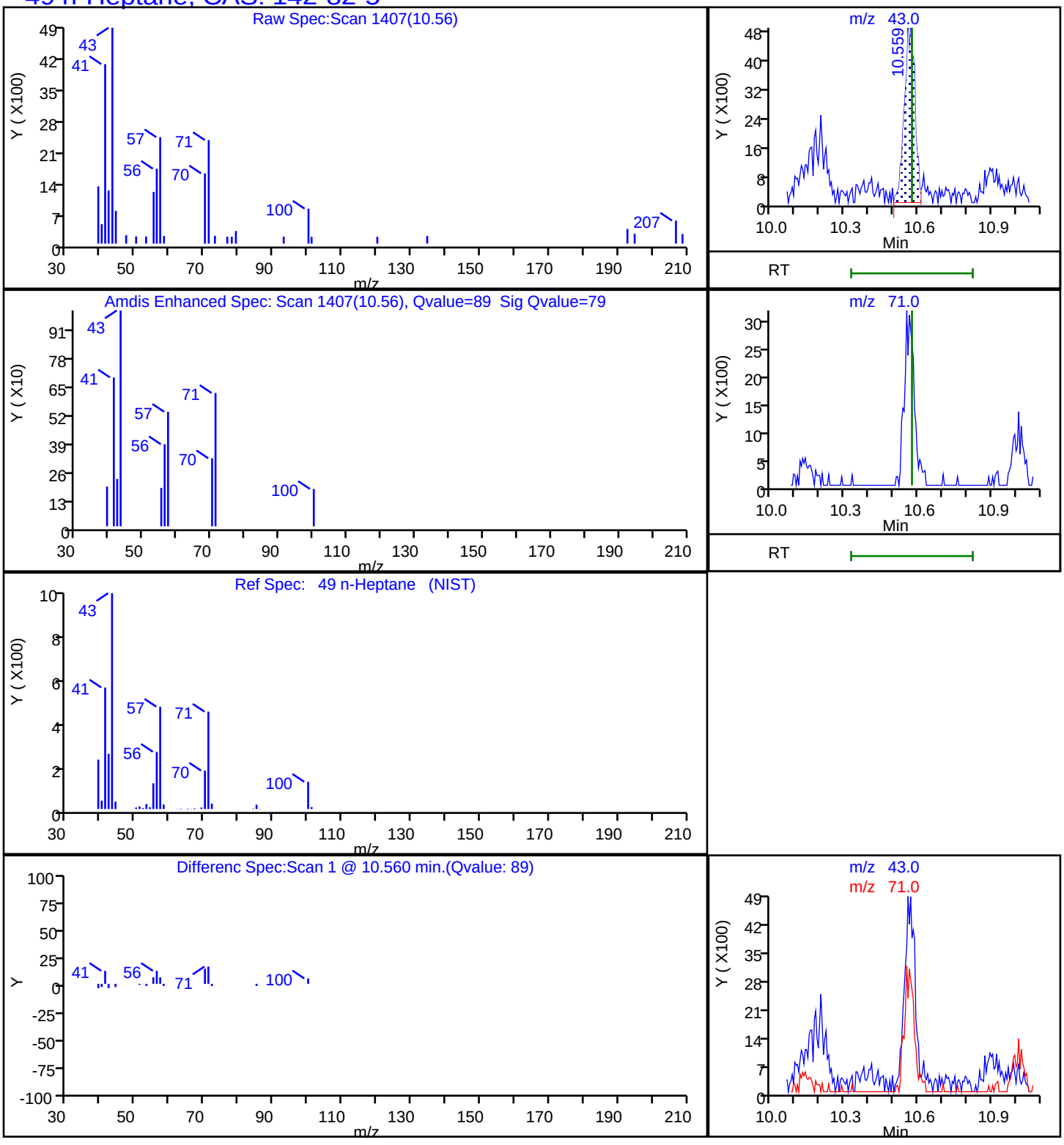
Report Date: 07-Dec-2018 09:24:23 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



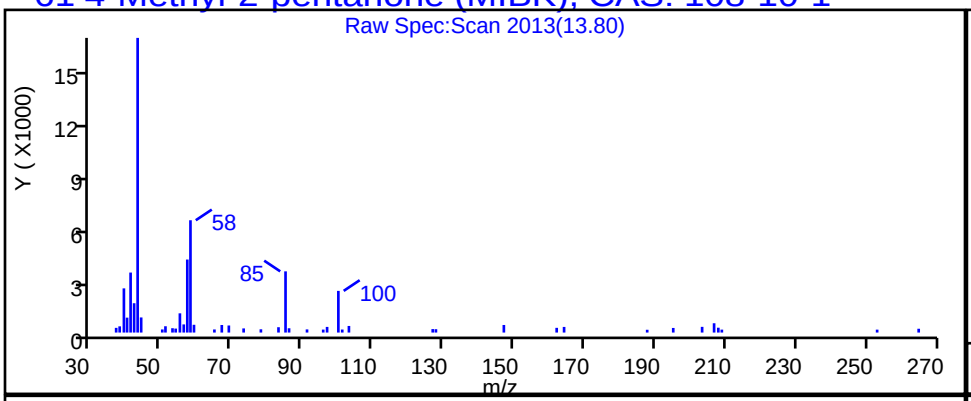
Report Date: 07-Dec-2018 09:24:23 Chrom Revision: 2.3 21-Nov-2018 13:56:44

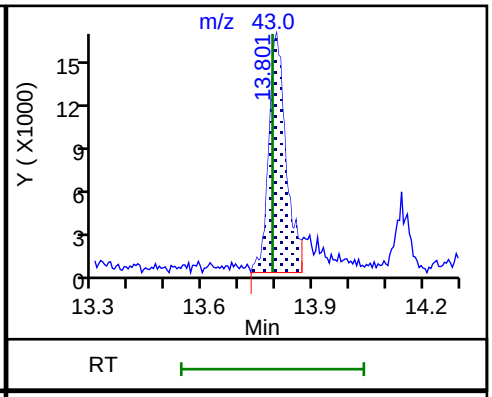
TestAmerica Burlington

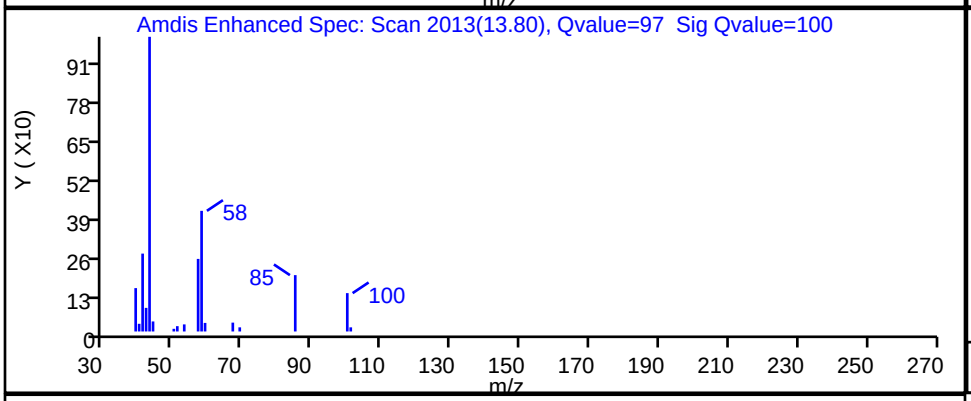
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

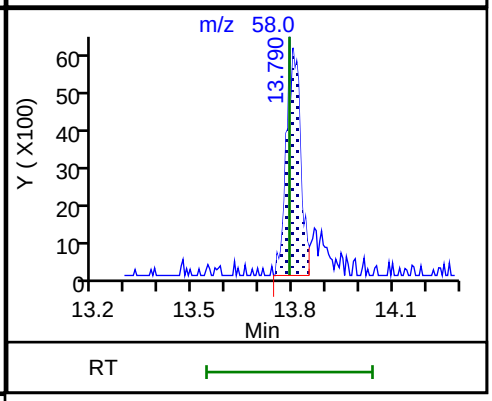
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

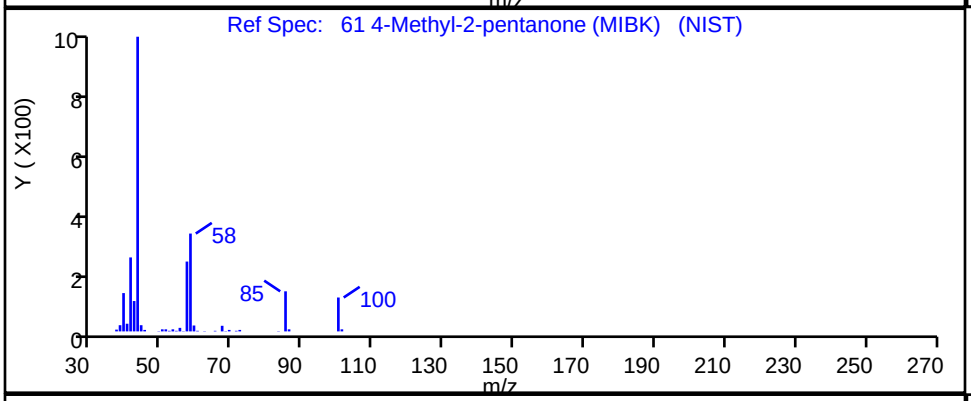
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

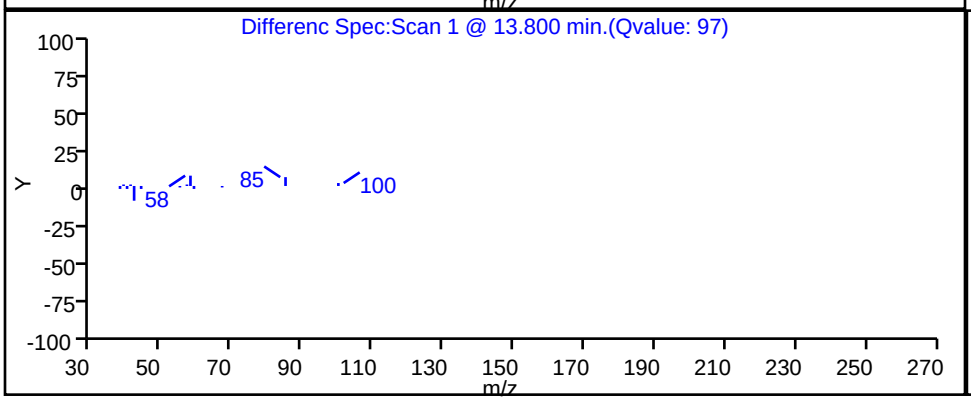


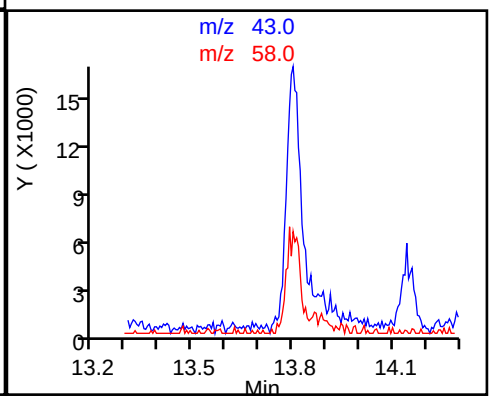



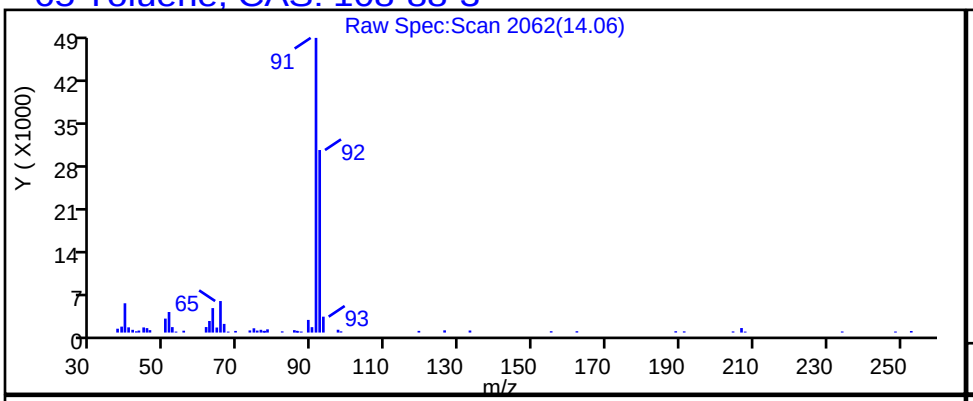
Report Date: 07-Dec-2018 09:24:23 Chrom Revision: 2.3 21-Nov-2018 13:56:44

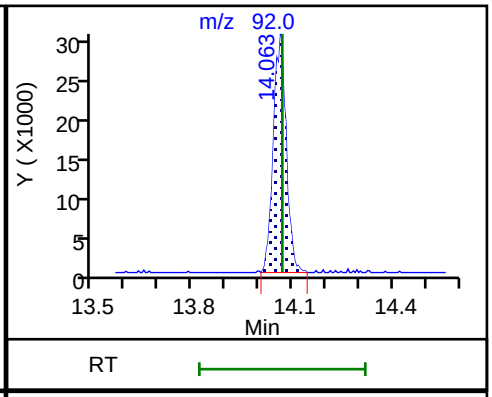
TestAmerica Burlington

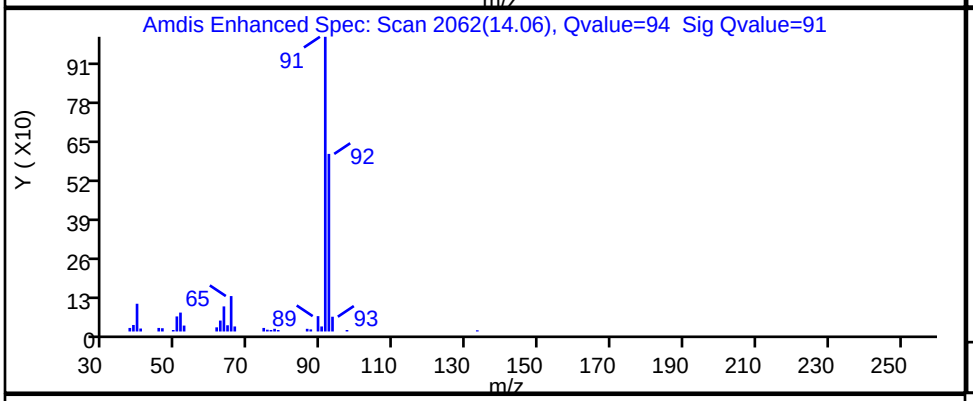
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

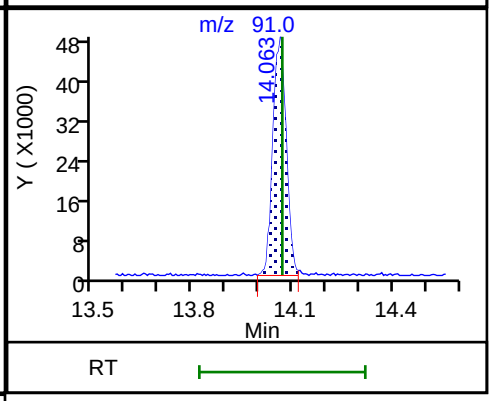
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

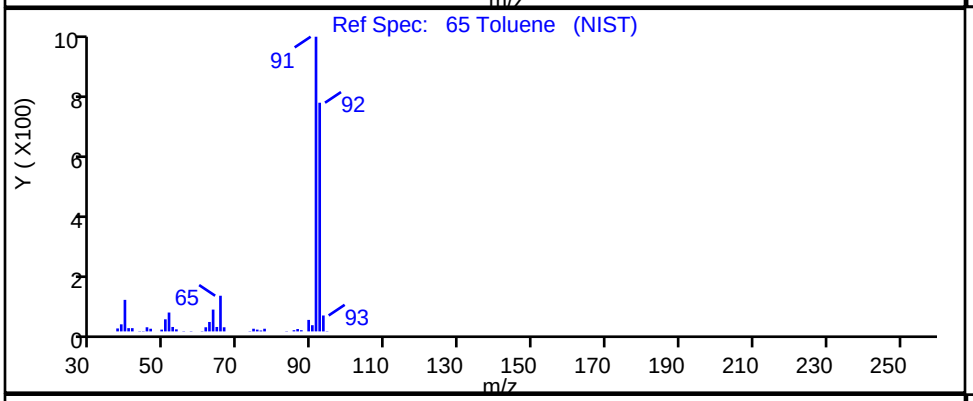
## 65 Toluene, CAS: 108-88-3

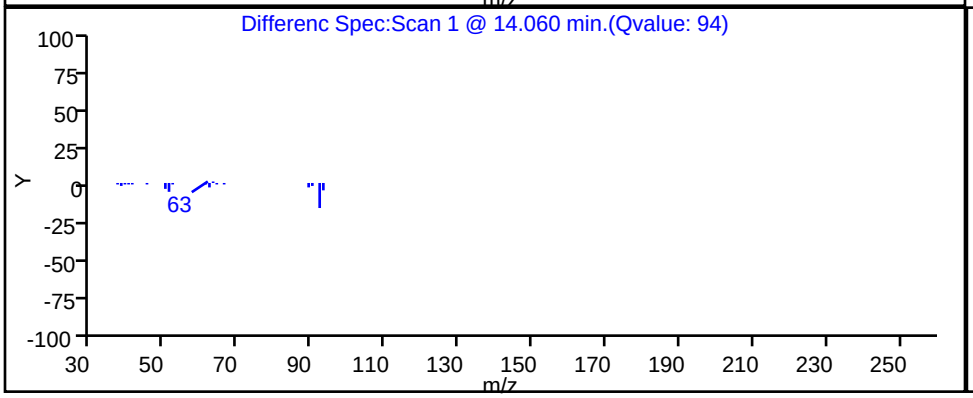


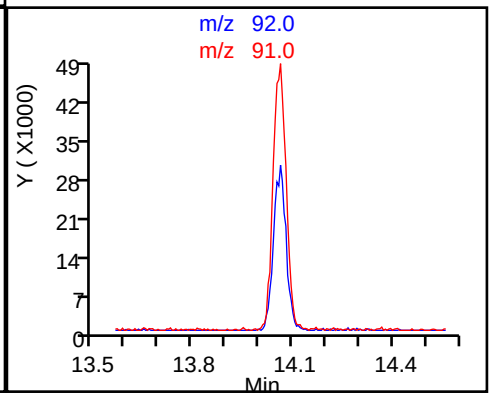



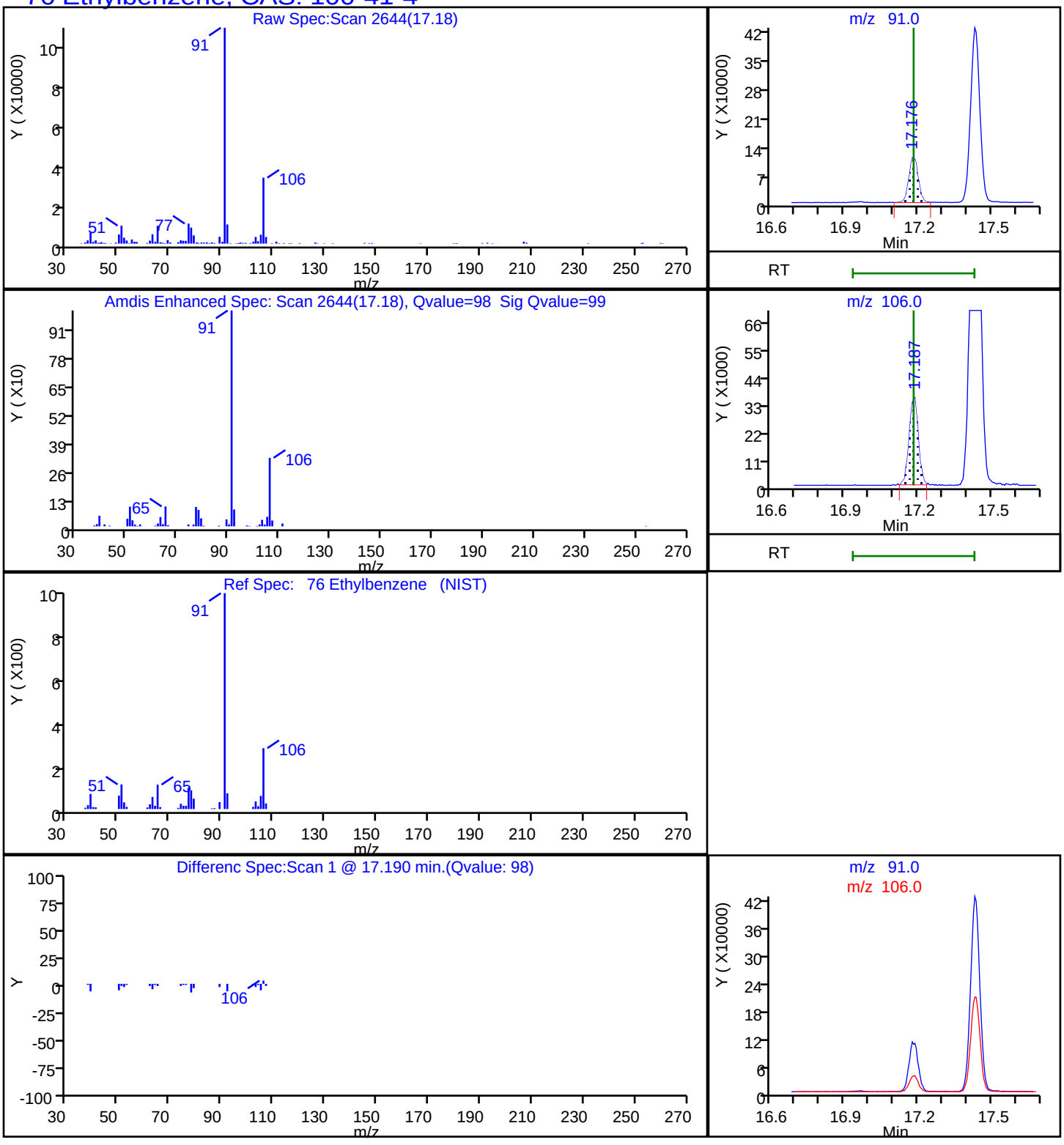
Report Date: 07-Dec-2018 09:24:24 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 76 Ethylbenzene, CAS: 100-41-4

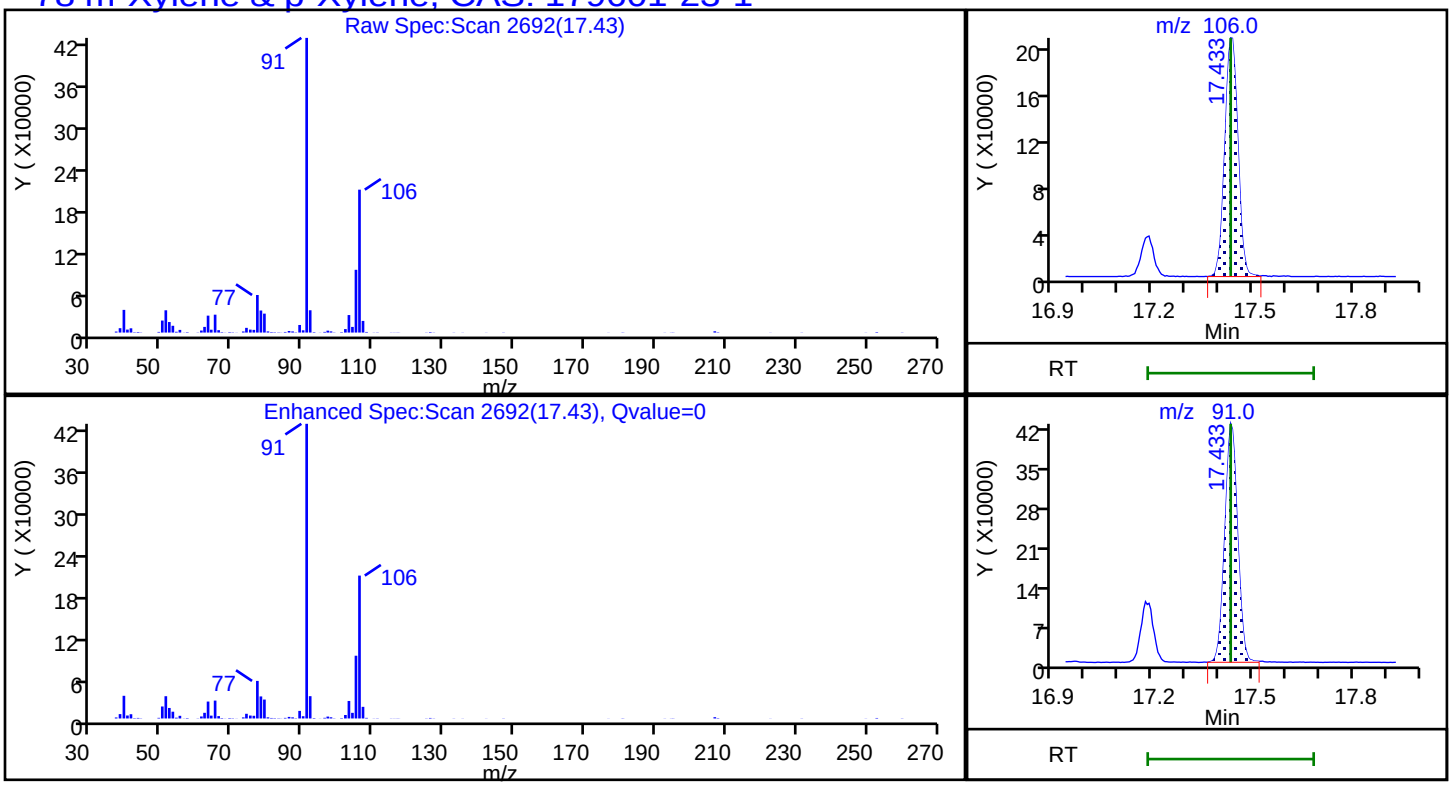


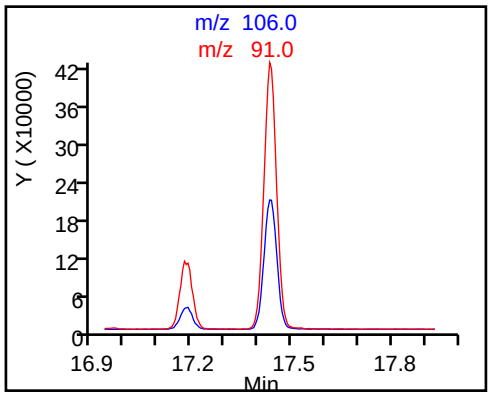
Report Date: 07-Dec-2018 09:24:24 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



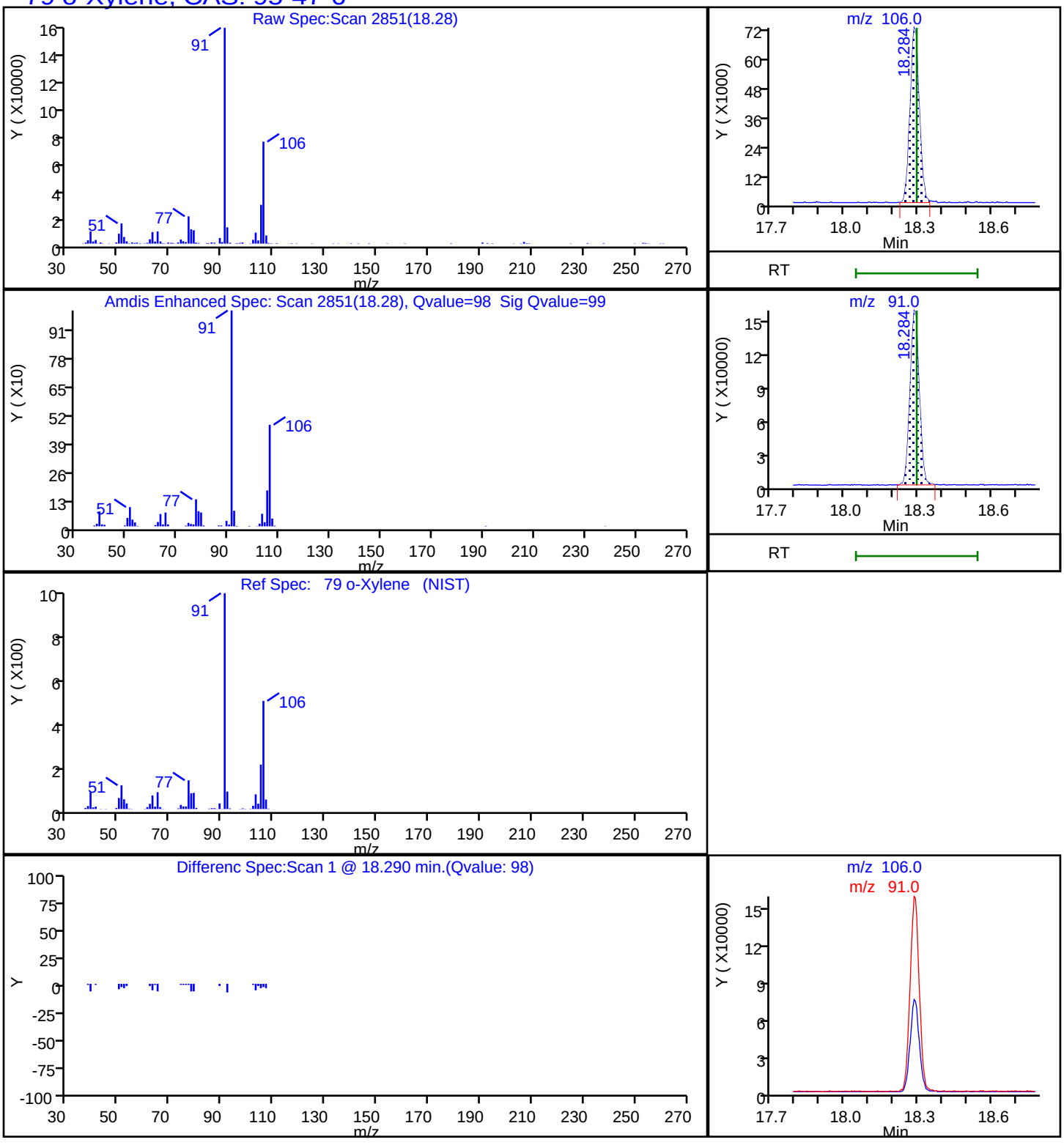
Report Date: 07-Dec-2018 09:24:24 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



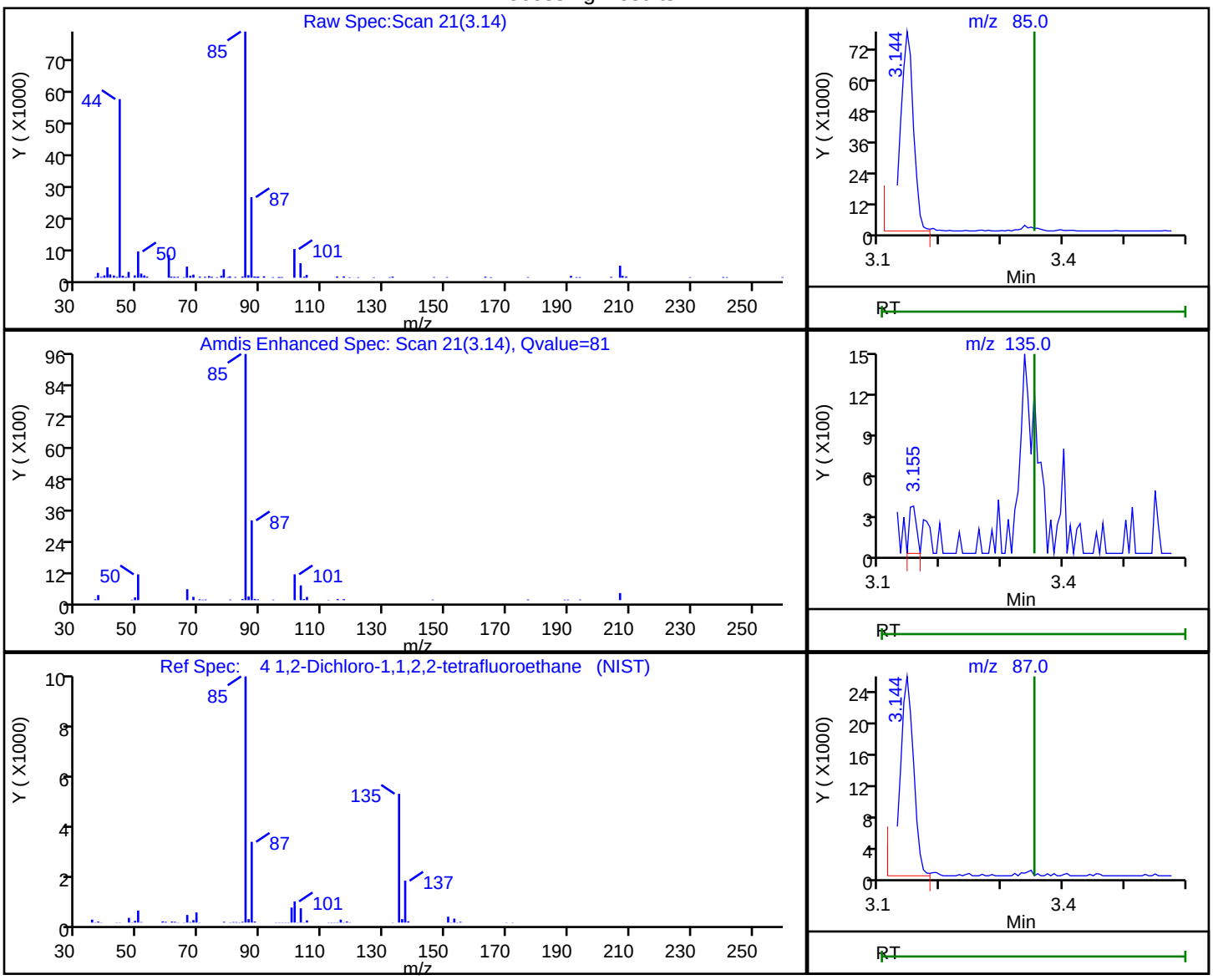
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.14 | 85.00 | 112663 | 0.677011 |
| 3.15 | 135.00 | 270 | |
| 3.14 | 87.00 | 37793 | |

Reviewer: bunmaa, 07-Dec-2018 09:17:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

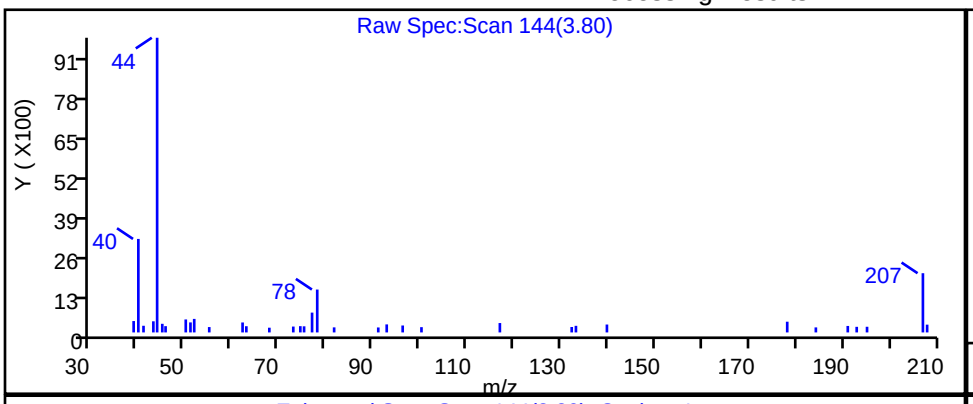
User Disabled Compound Report

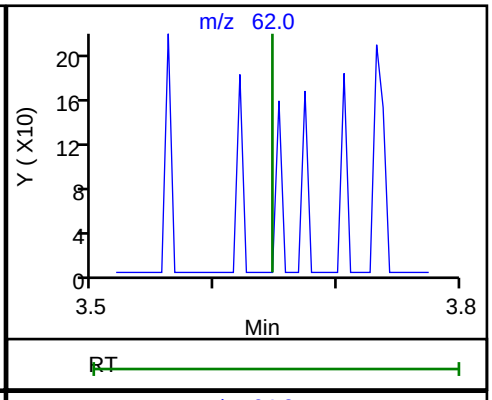
TestAmerica Burlington

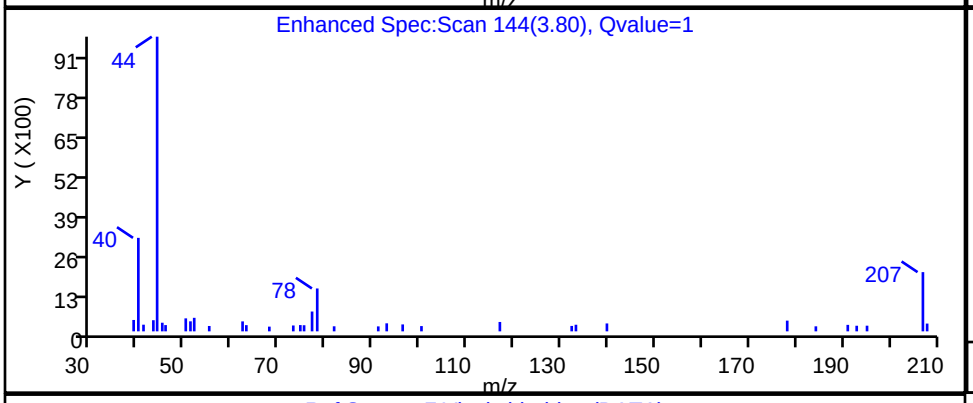
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

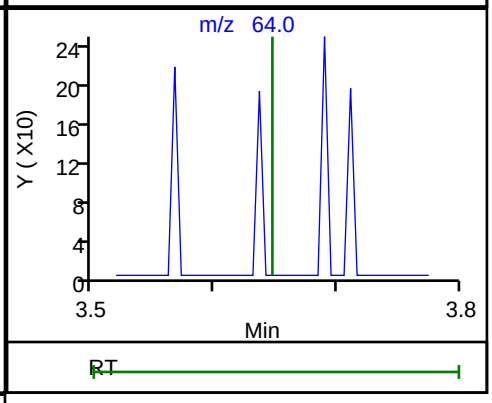
## 7 Vinyl chloride, CAS: 75-01-4

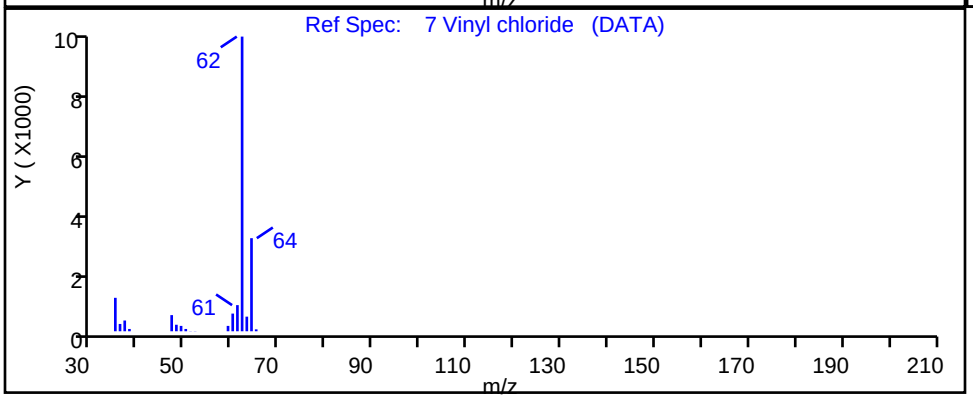
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.80 | 62.00 | 449 | 0.008669 |
| 3.65 | 64.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:35:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

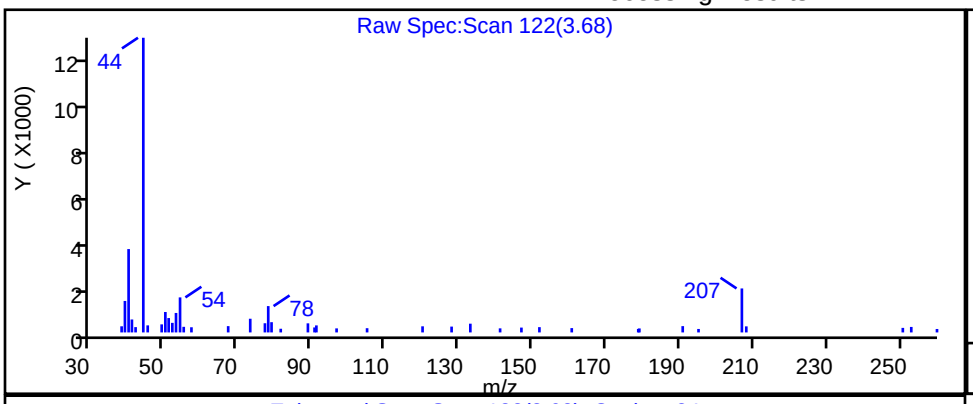
User Disabled Compound Report

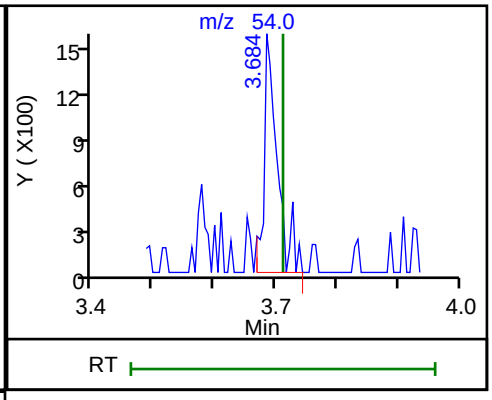
TestAmerica Burlington

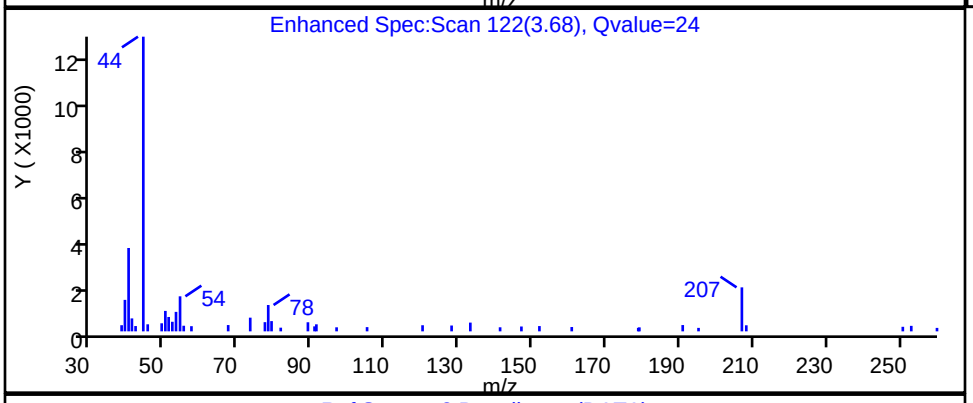
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

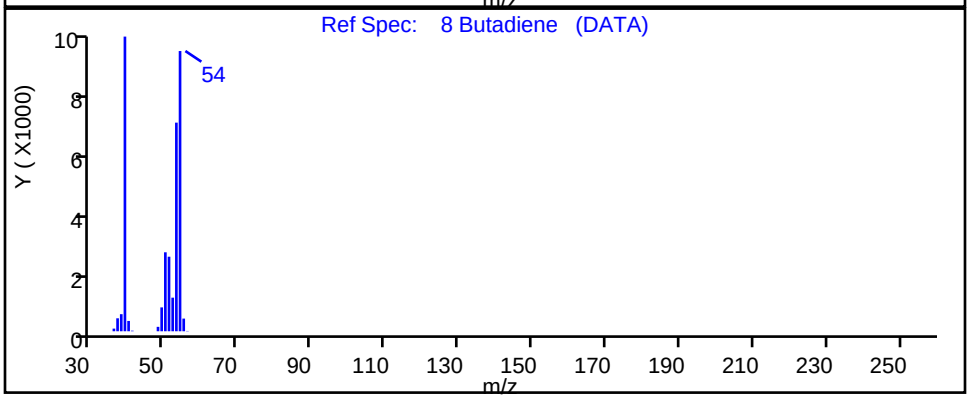
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.68 | 54.00 | 2280 | 0.070757 |

Reviewer: bunmaa, 07-Dec-2018 09:18:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

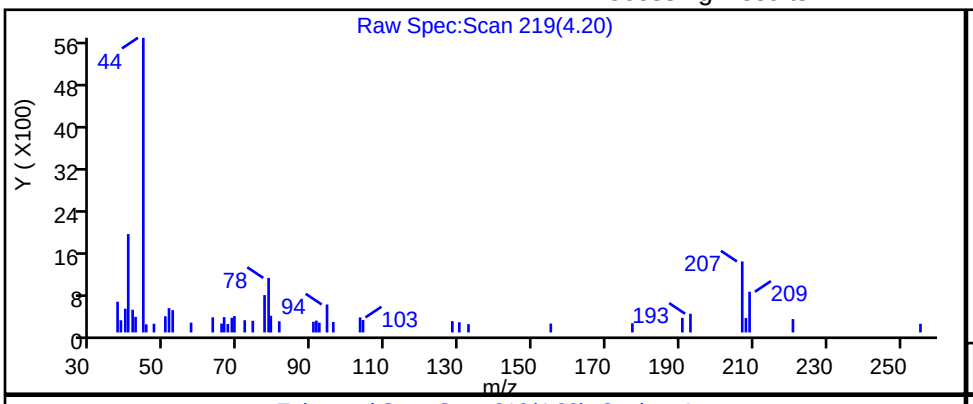
User Disabled Compound Report

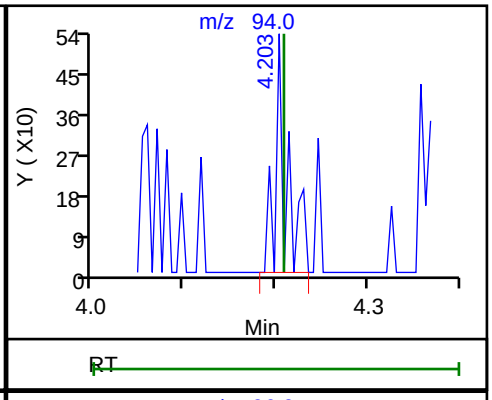
TestAmerica Burlington

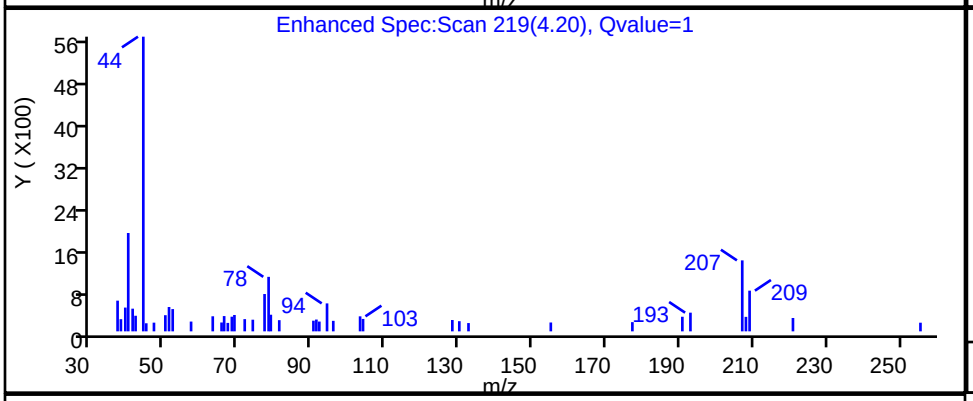
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

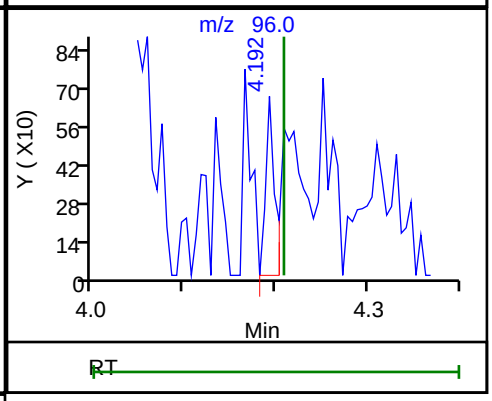
## 10 Bromomethane, CAS: 74-83-9

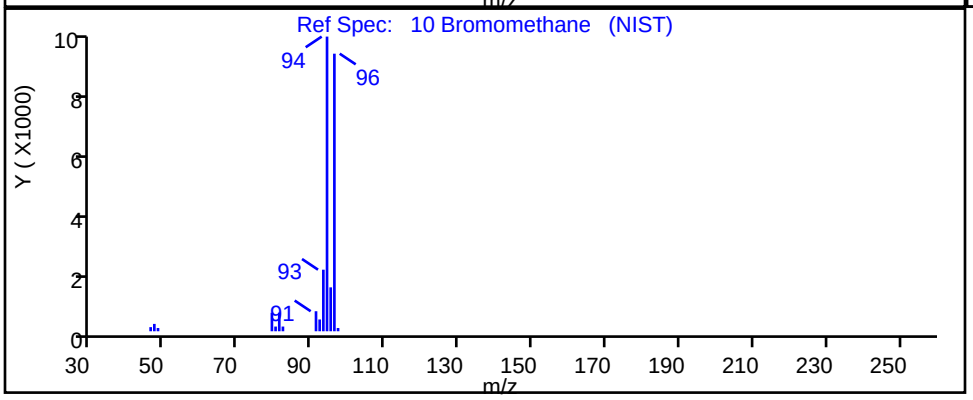
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.20 | 94.00 | 464 | 0.007760 |
| 4.19 | 96.00 | 454 | |

Reviewer: bunmaa, 07-Dec-2018 09:18:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

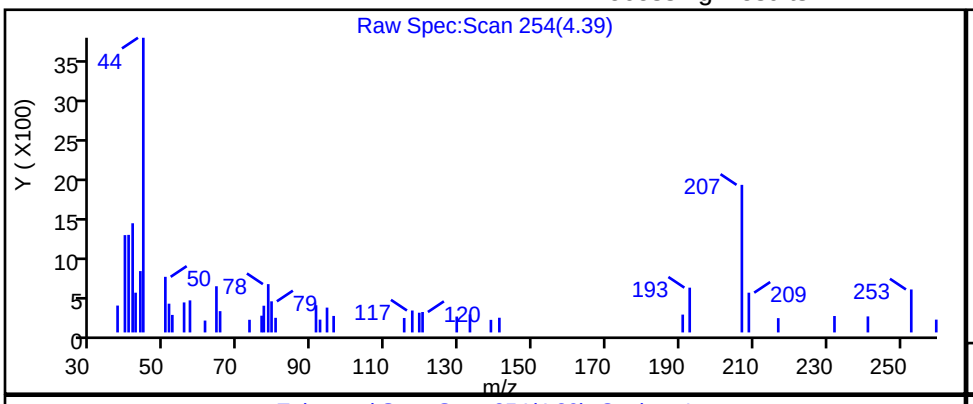
User Disabled Compound Report

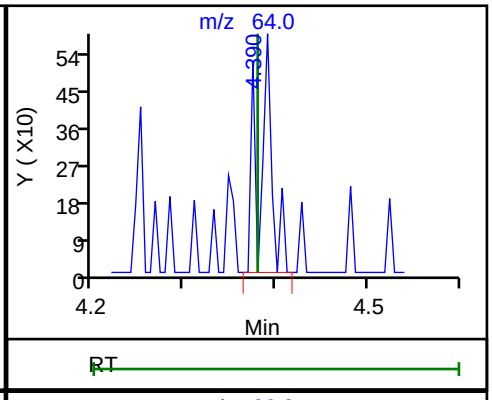
TestAmerica Burlington

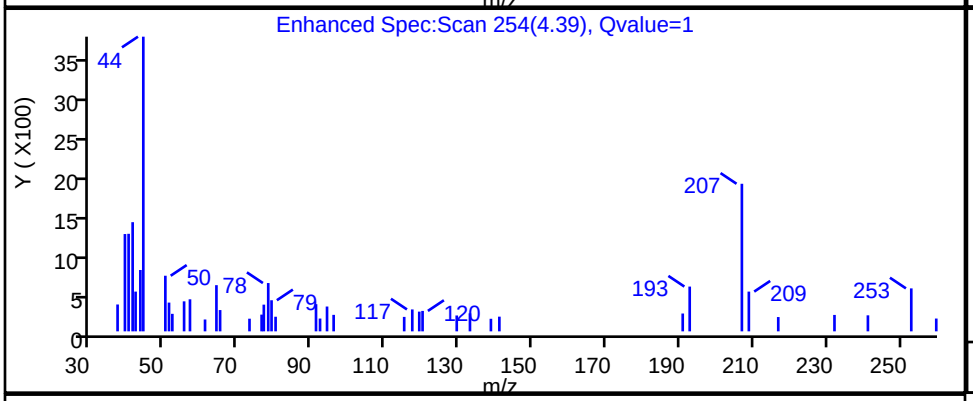
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

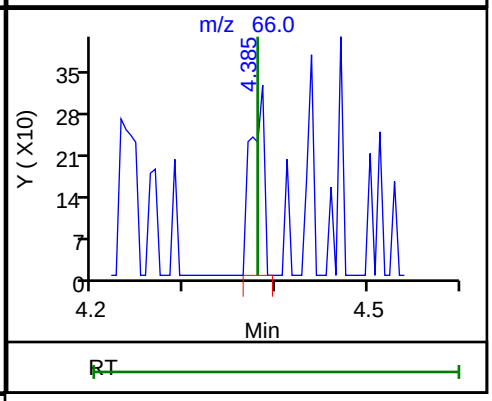
## 11 Chloroethane, CAS: 75-00-3

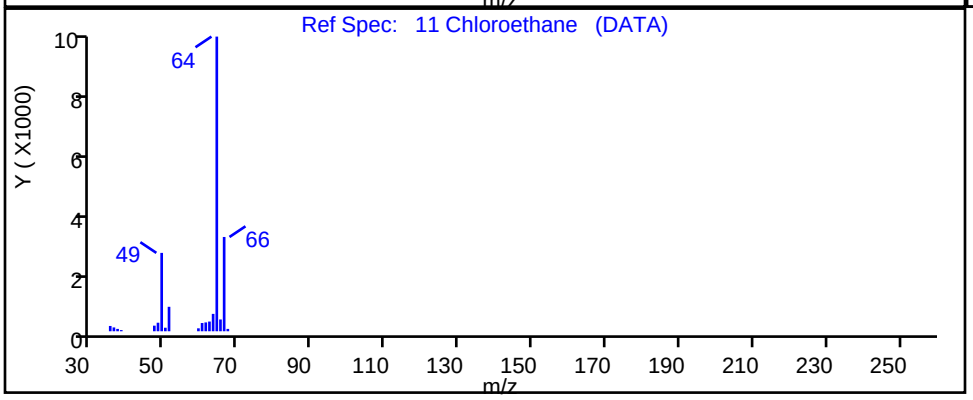
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.39 | 64.00 | 568 | 0.028498 |
| 4.39 | 66.00 | 327 | |

Reviewer: bunmaa, 07-Dec-2018 09:18:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

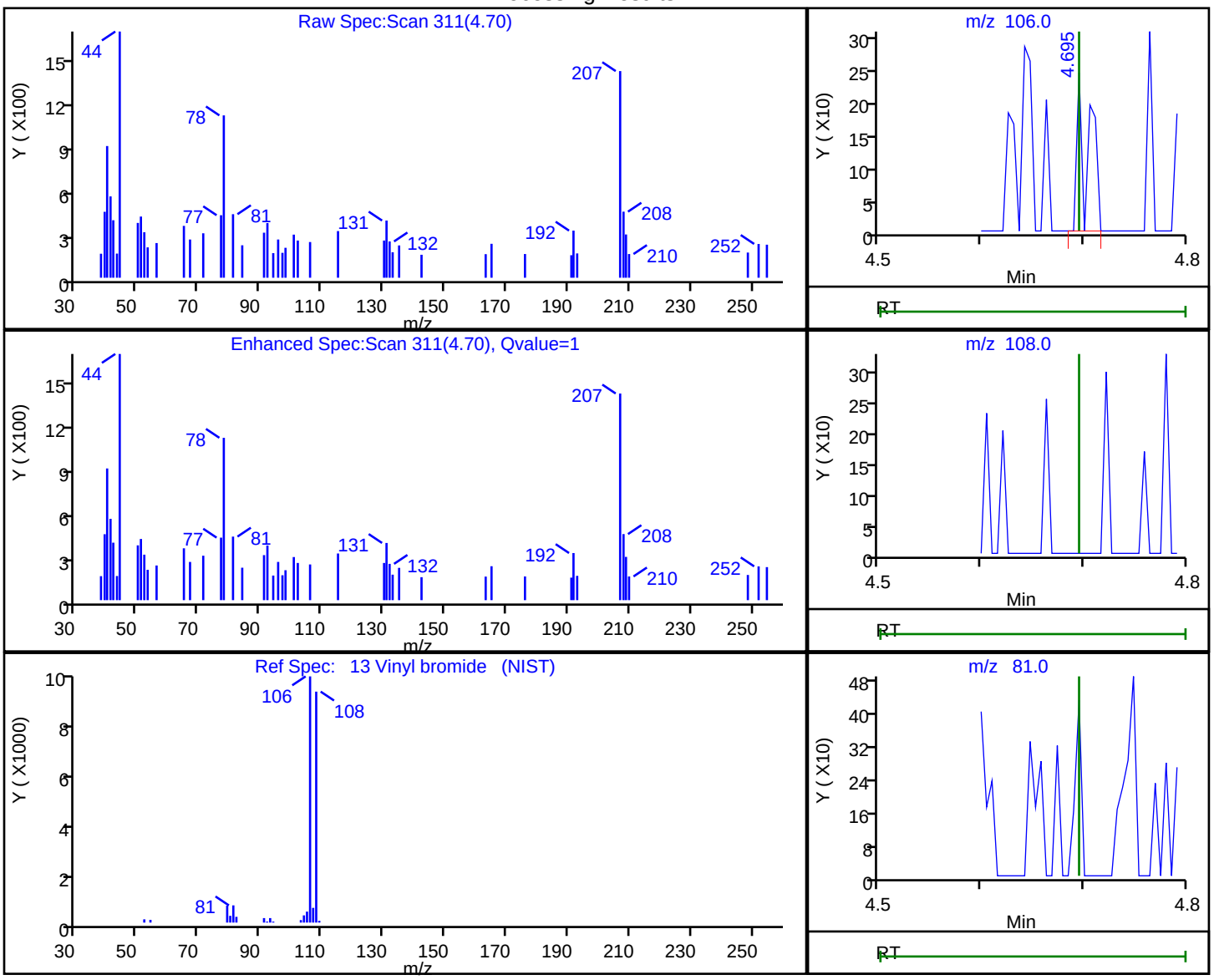
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.70 | 106.00 | 195 | 0.003298 |
| 4.70 | 108.00 | 0 | |
| 4.70 | 81.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:18:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

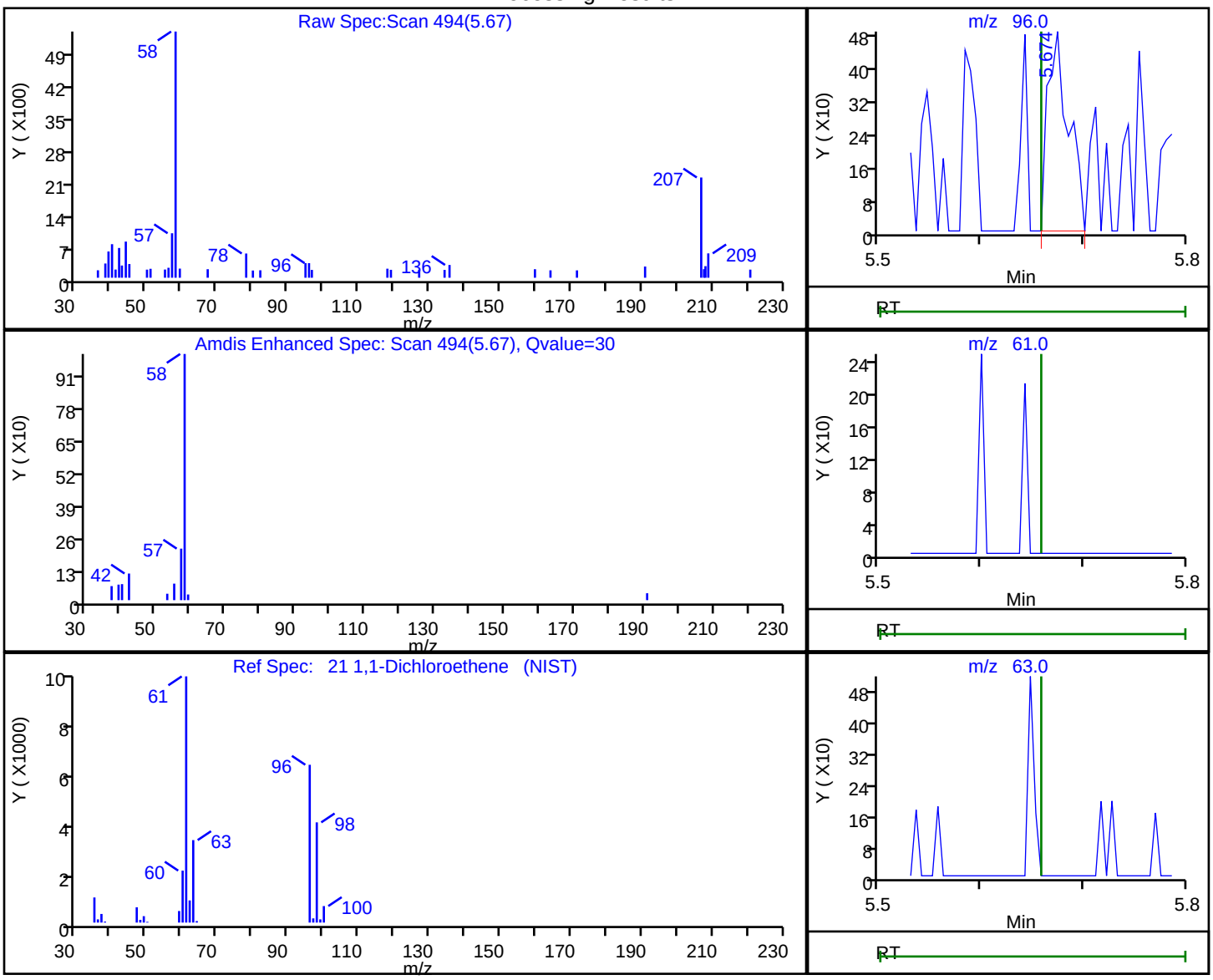
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.67 | 96.00 | 690 | 0.012735 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:18:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

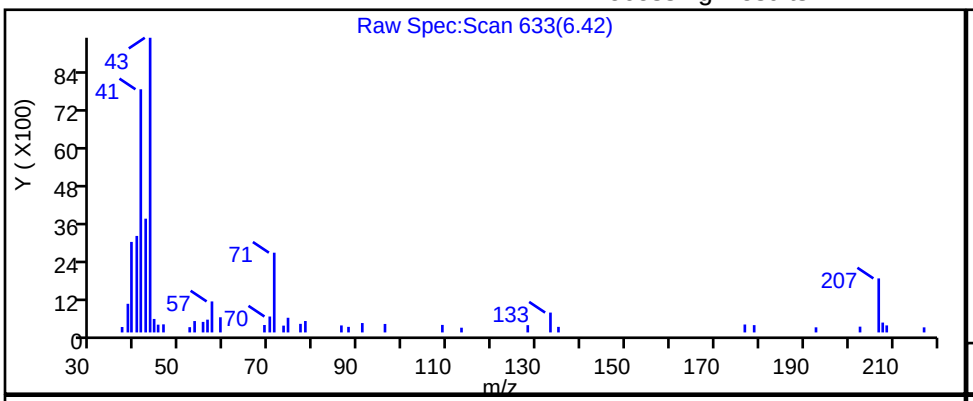
User Disabled Compound Report

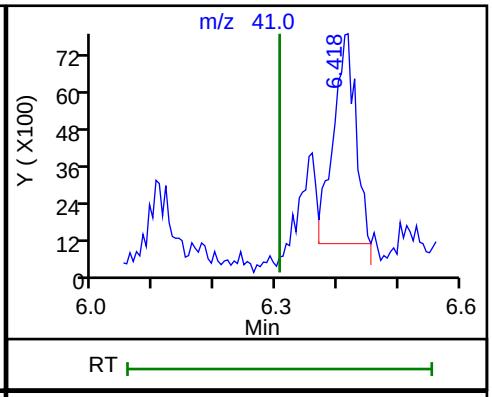
TestAmerica Burlington

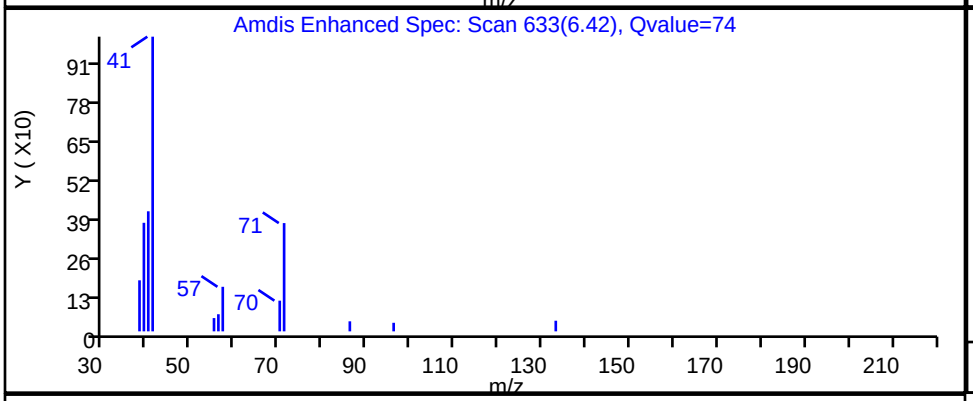
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

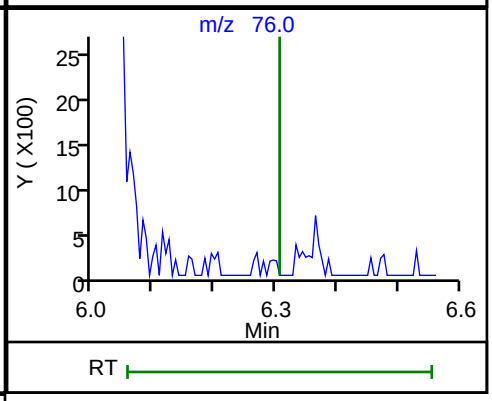
## 25 3-Chloro-1-propene, CAS: 107-05-1

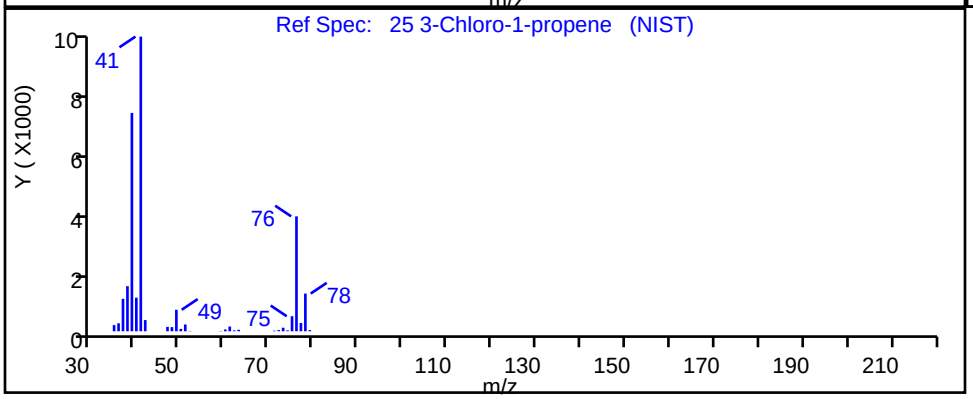
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.42 | 41.00 | 17526 | 0.434774 |
| 6.31 | 76.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:35:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

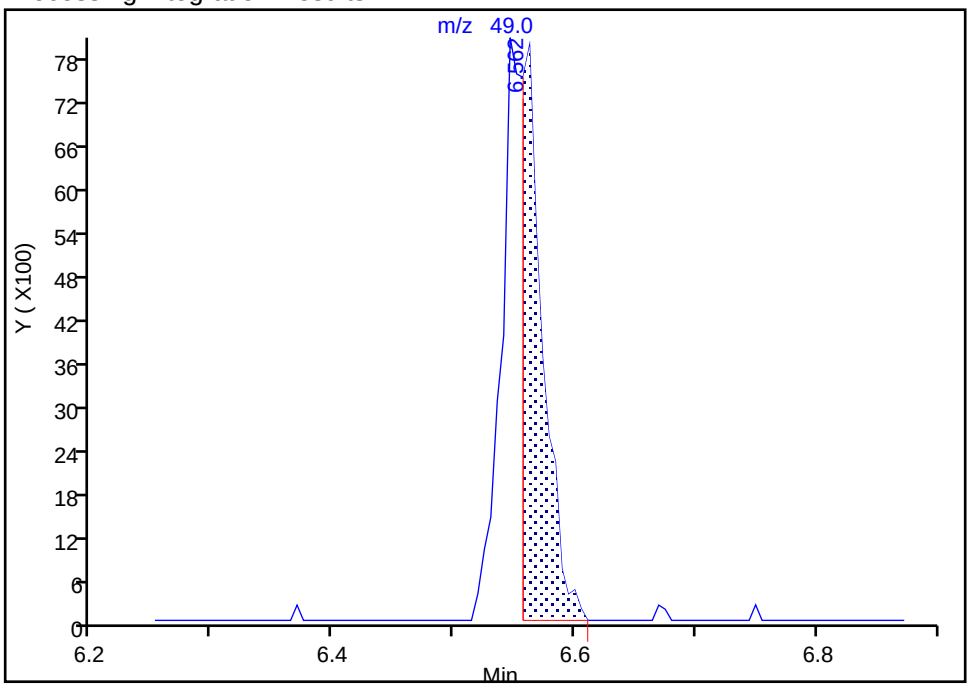
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

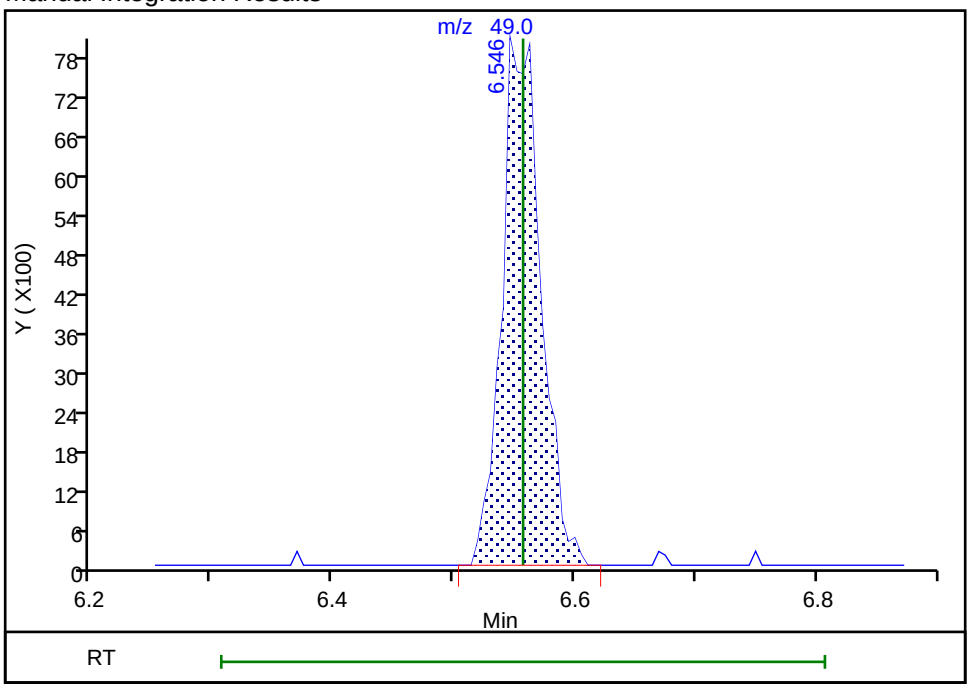
Processing Integration Results

RT: 6.56
Area: 9942
Amount: 0.203318
Amount Units: ppb v/v




Manual Integration Results

RT: 6.55
Area: 18083
Amount: 0.369805
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:35:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

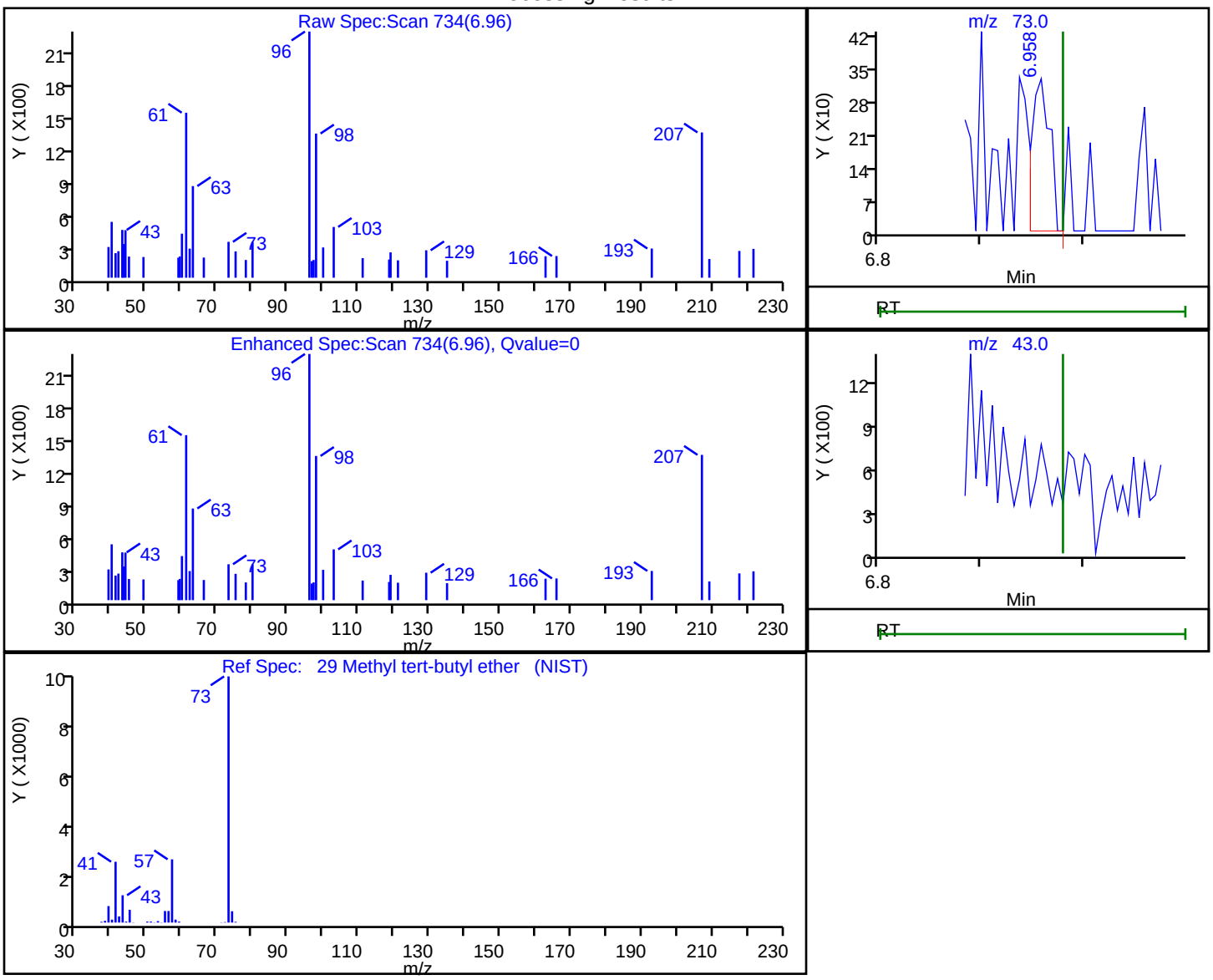
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.96 | 73.00 | 394 | 0.003740 |
| 6.98 | 43.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:18:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

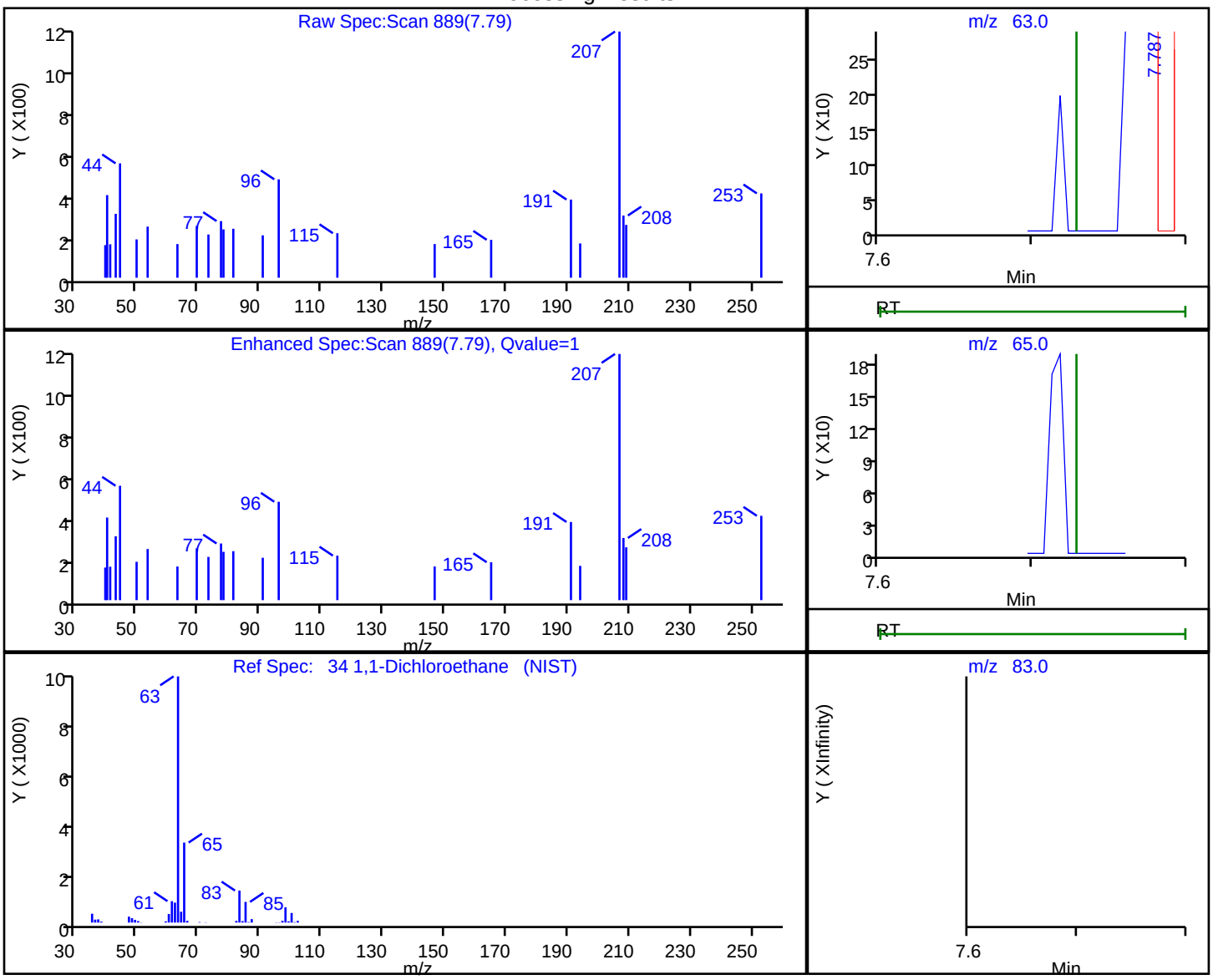
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.79 | 63.00 | 51 | 0.000602 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:19:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

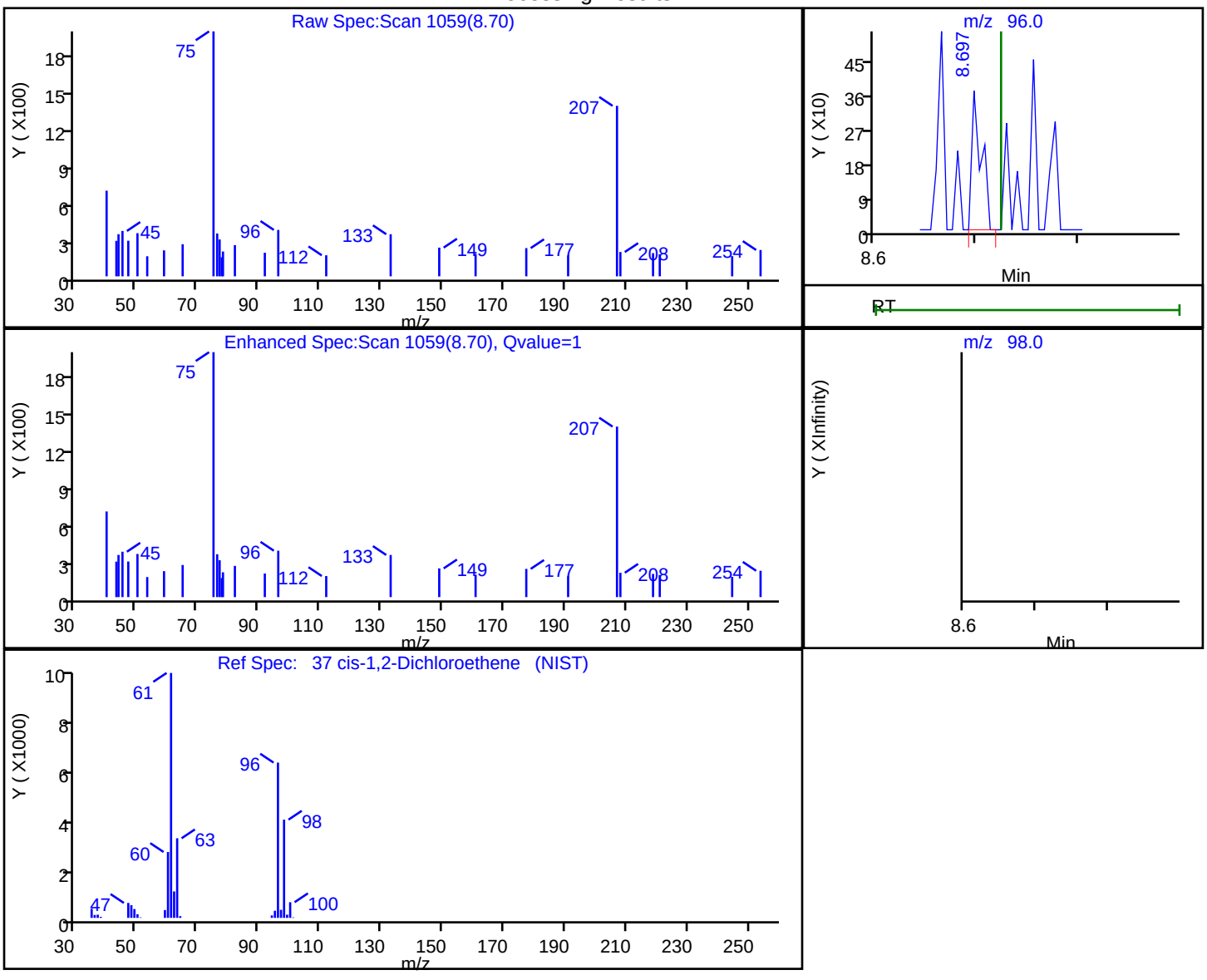
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.70 | 96.00 | 242 | 0.004715 |
| 8.72 | 98.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:19:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

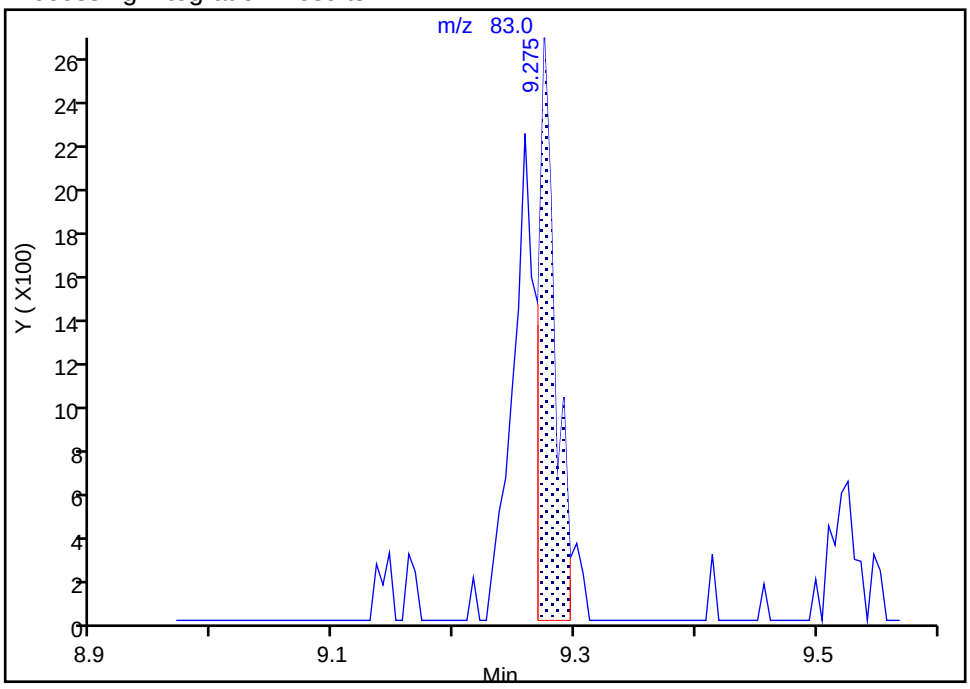
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

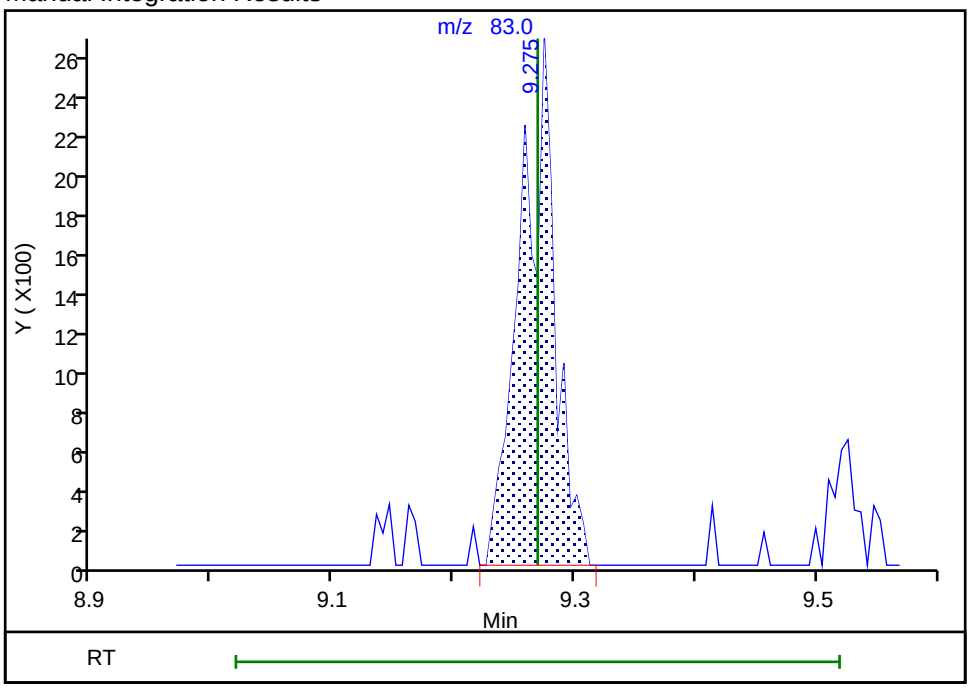
Processing Integration Results

RT: 9.27
Area: 2535
Amount: 0.020476
Amount Units: ppb v/v




Manual Integration Results

RT: 9.27
Area: 5141
Amount: 0.041525
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:19:18

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

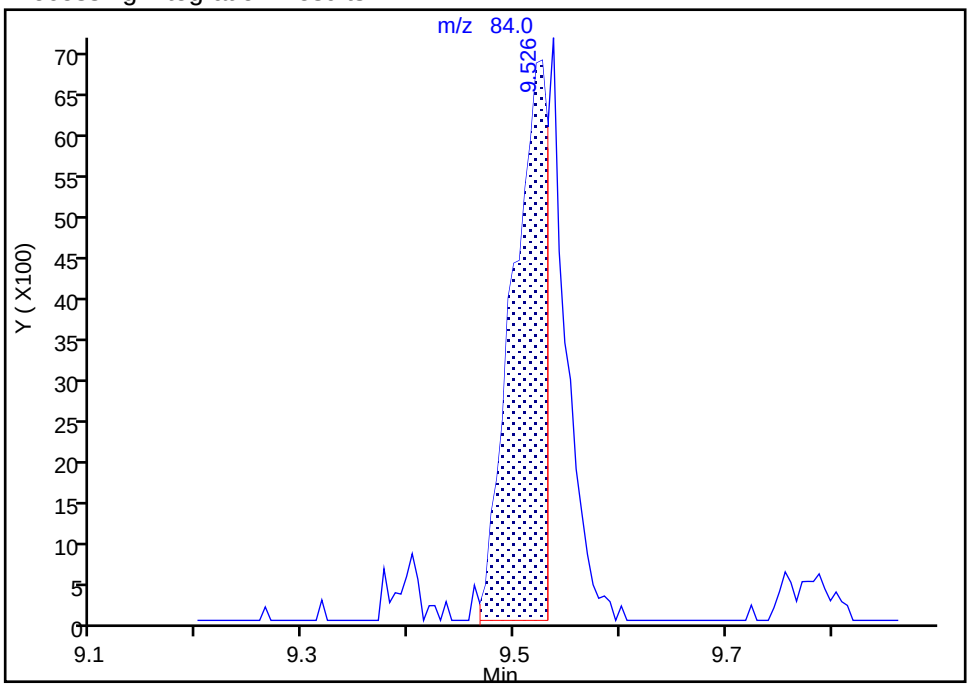
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

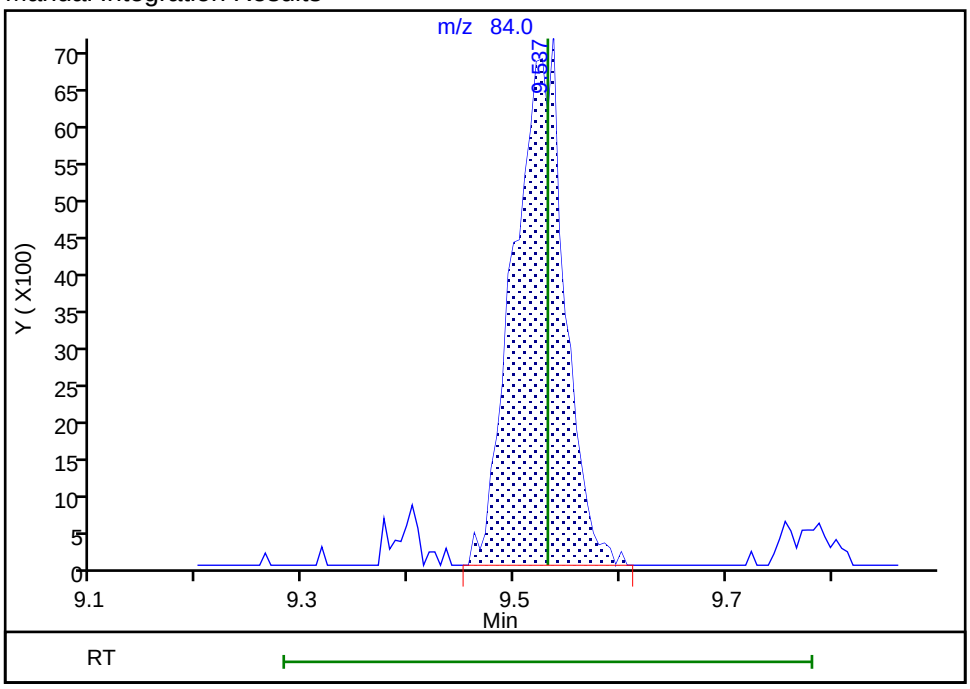
Processing Integration Results

RT: 9.53
Area: 15914
Amount: 0.263276
Amount Units: ppb v/v




Manual Integration Results

RT: 9.54
Area: 23531
Amount: 0.389288
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:36:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

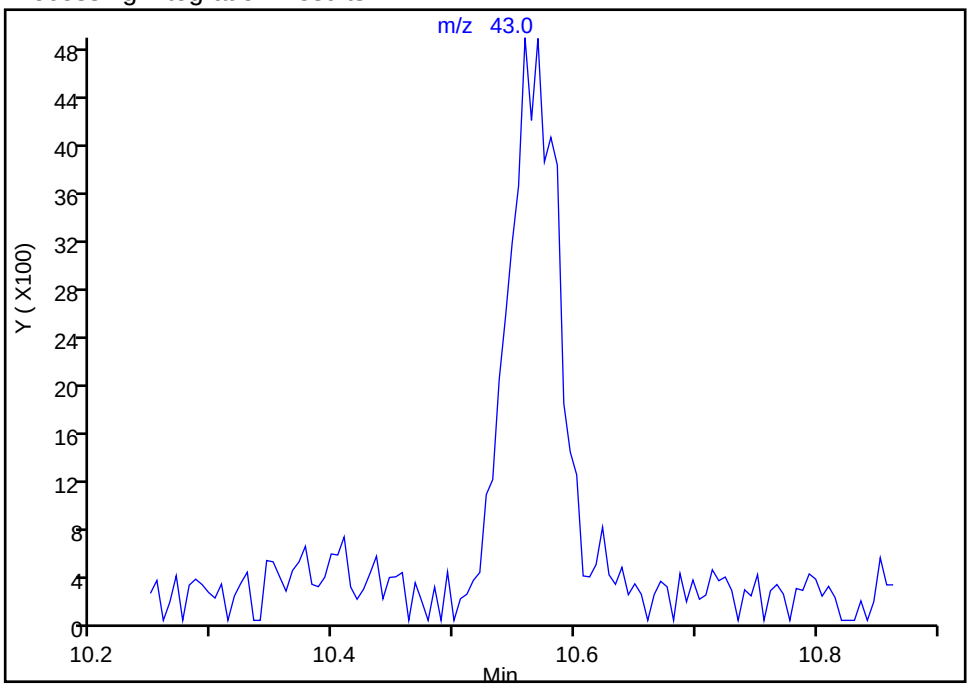
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5

Signal: 1

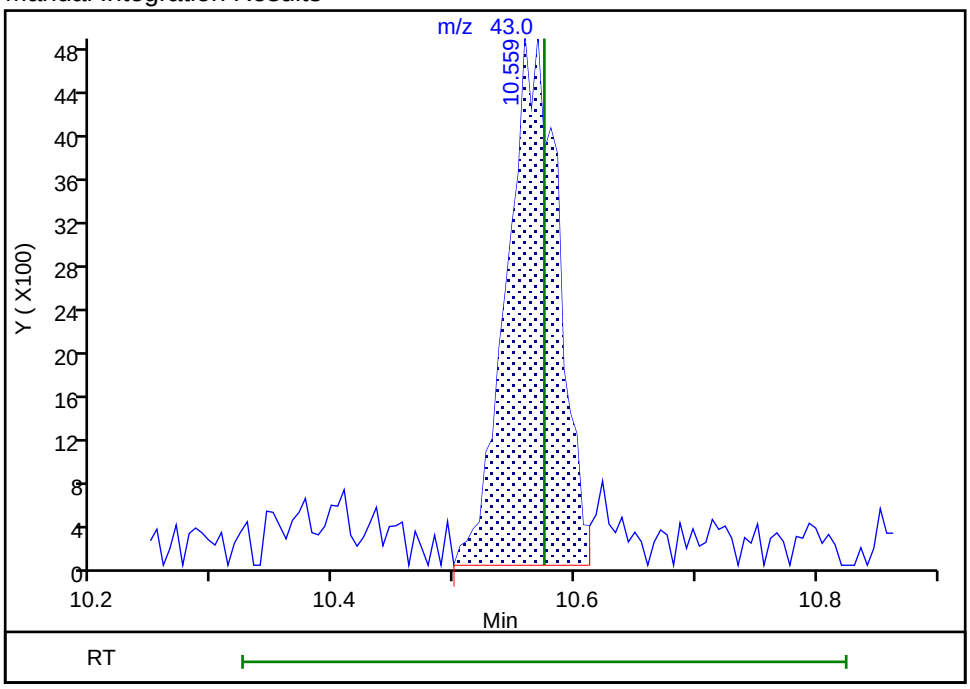
Not Detected
Expected RT: 10.57

Processing Integration Results




Manual Integration Results

RT: 10.56
Area: 14617
Amount: 0.202587
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:20:05
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

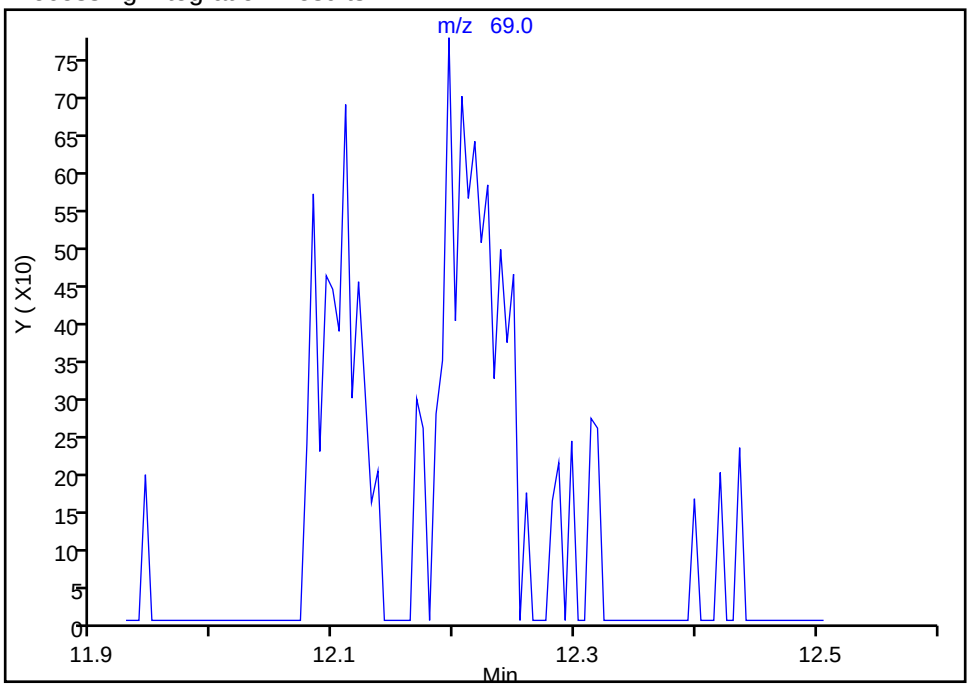
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 55 Methyl methacrylate, CAS: 80-62-6

Signal: 1

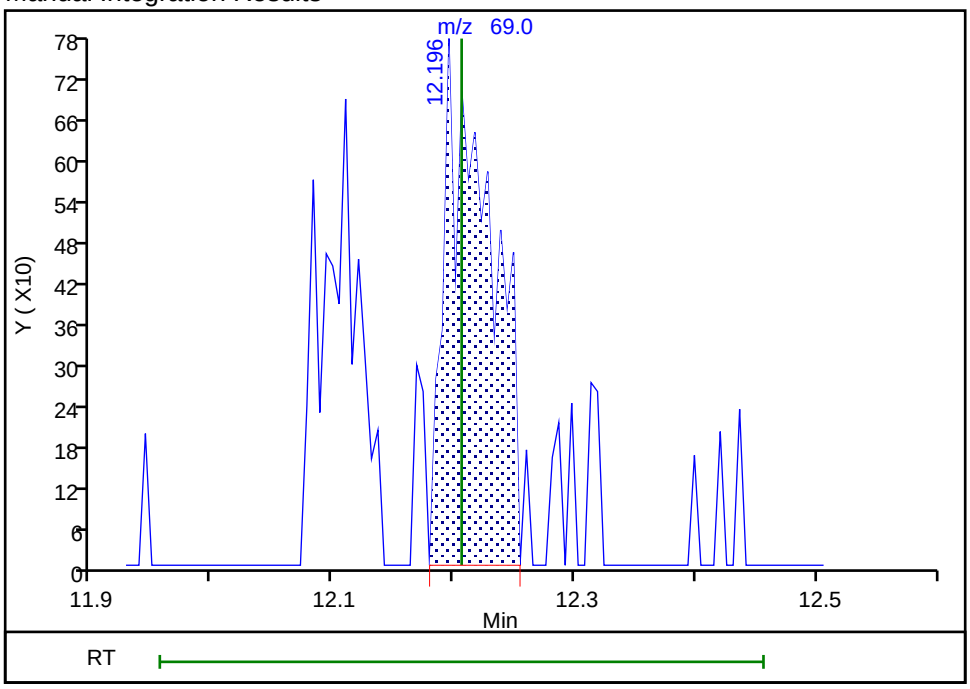
Not Detected
Expected RT: 12.21

Processing Integration Results




Manual Integration Results

RT: 12.20
Area: 2062
Amount: 0.050501
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:20:28
Audit Action: Manually Integrated Audit Reason: Assign Peak

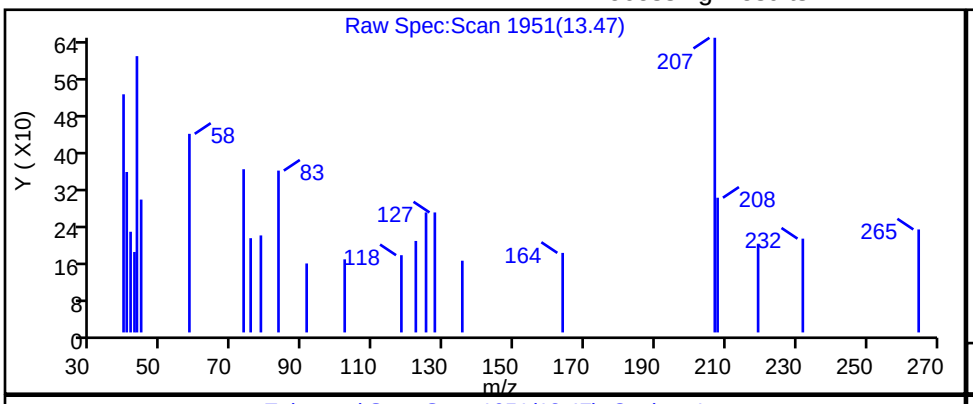
User Disabled Compound Report

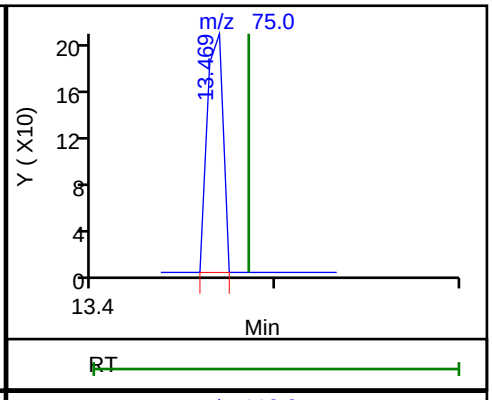
TestAmerica Burlington

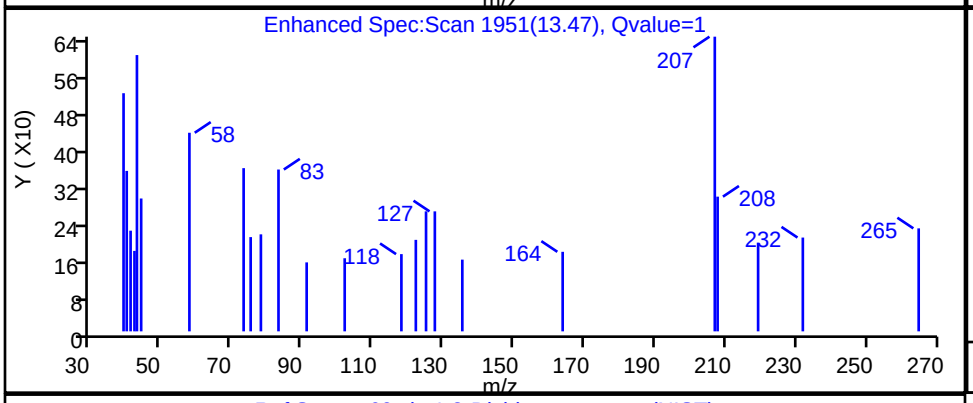
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

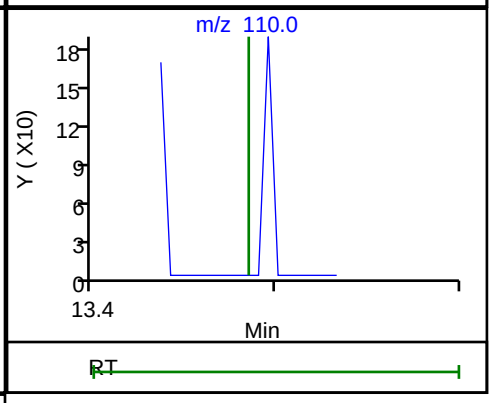
## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

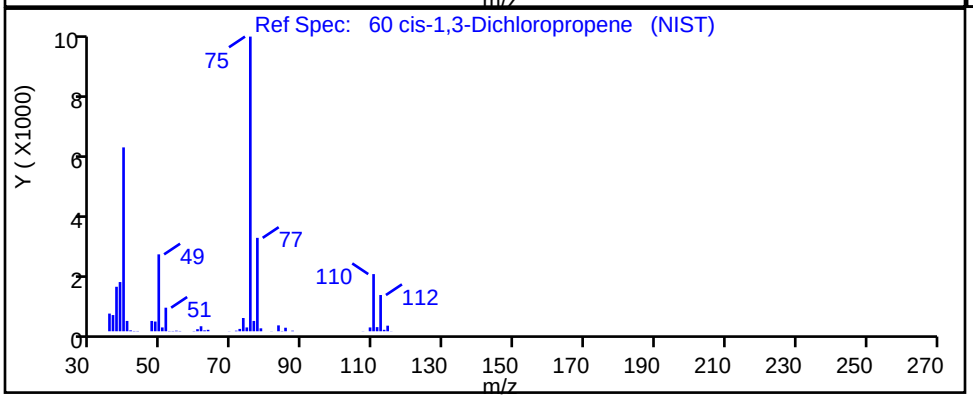
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.47 | 75.00 | 124 | 0.001405 |
| 13.48 | 110.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:36:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

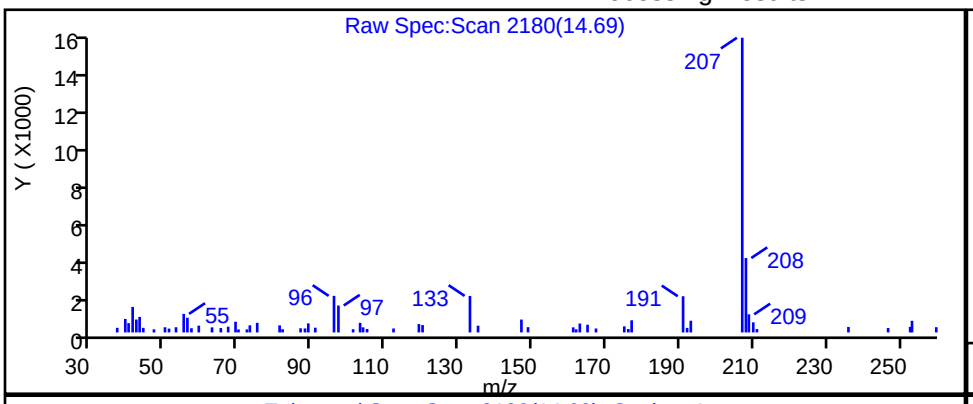
User Disabled Compound Report

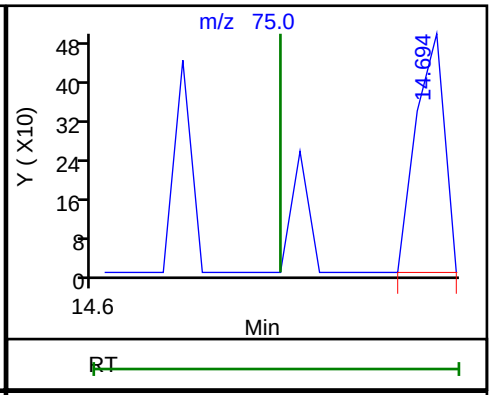
TestAmerica Burlington

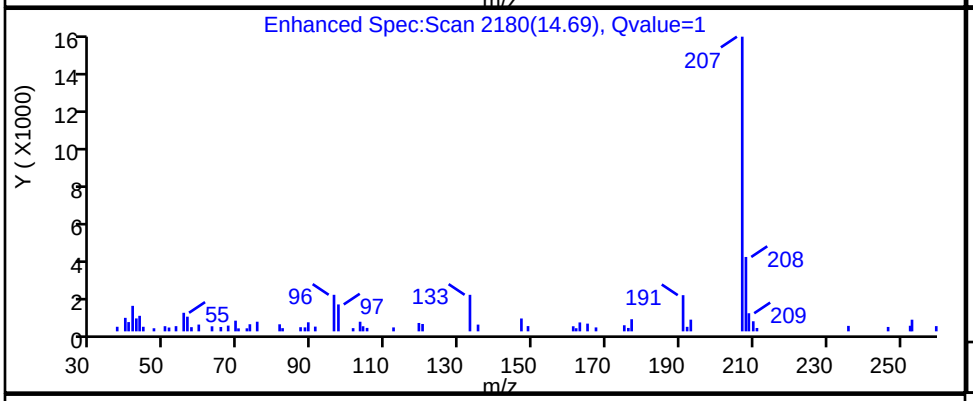
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

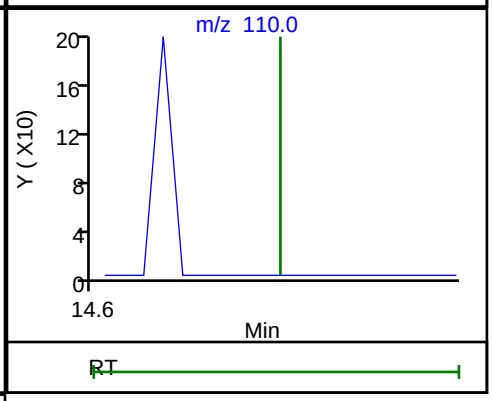
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

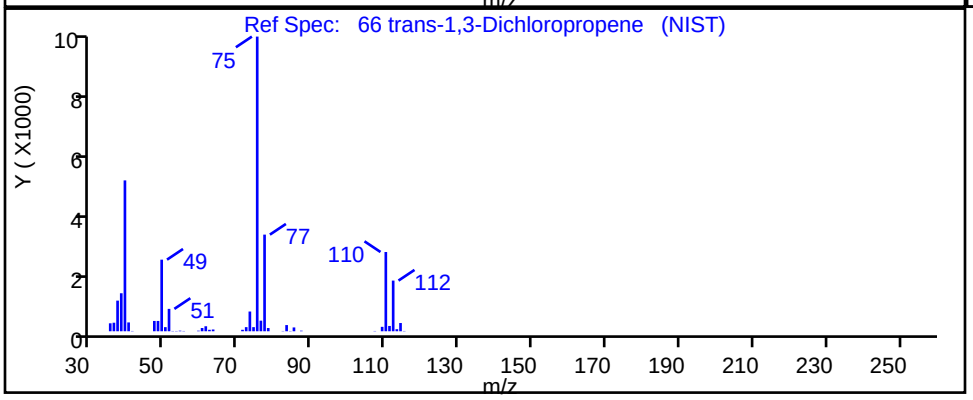
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.69 | 75.00 | 267 | 0.003077 |
| 14.65 | 110.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:36:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

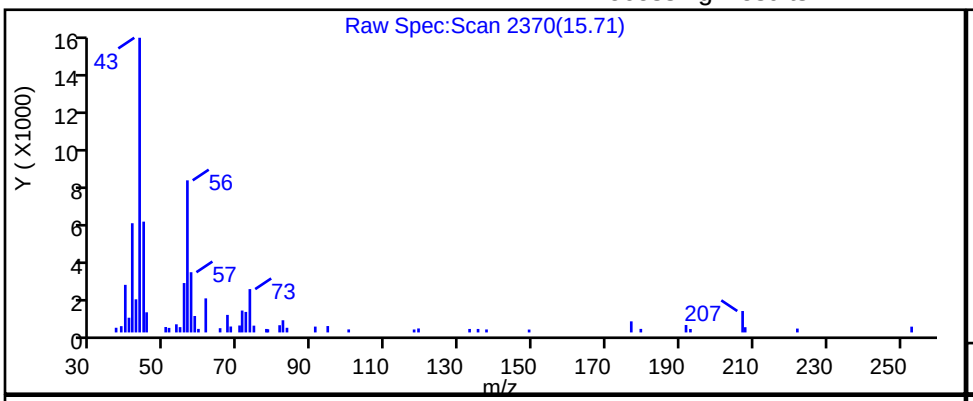
User Disabled Compound Report

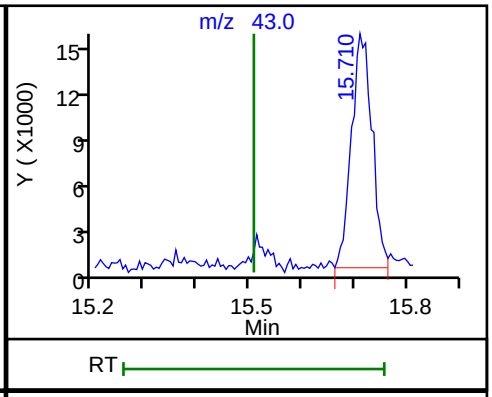
TestAmerica Burlington

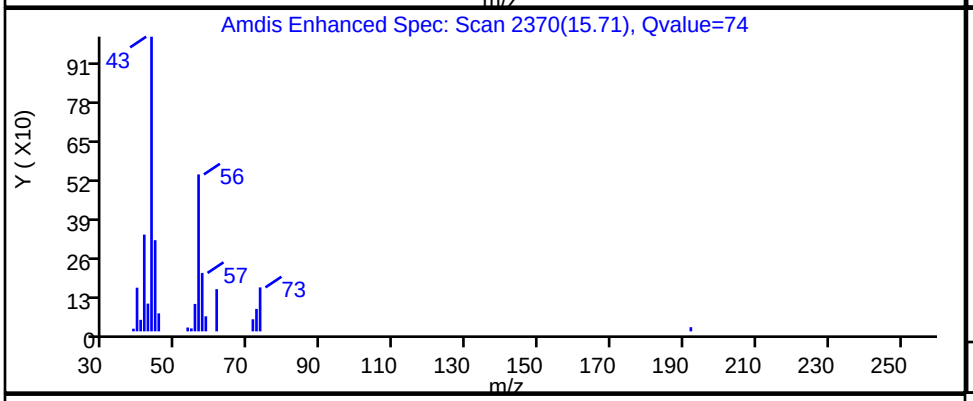
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

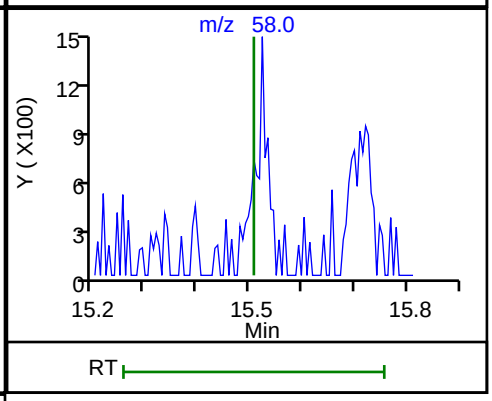
## 69 2-Hexanone, CAS: 591-78-6

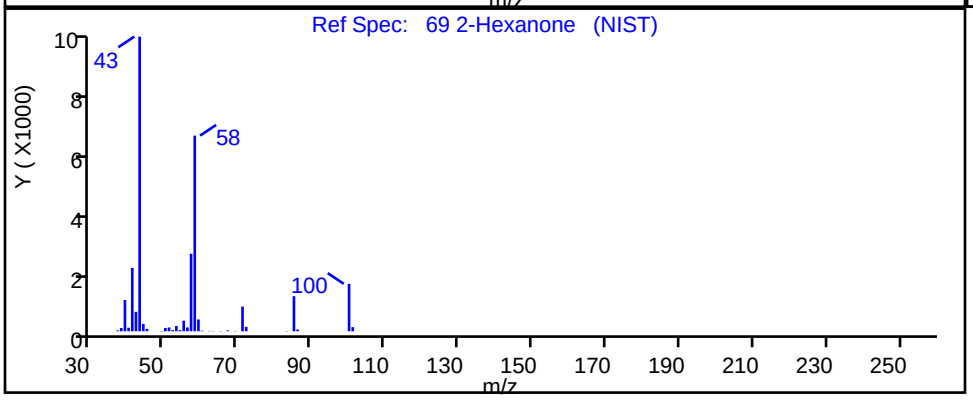
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.71 | 43.00 | 41785 | 0.469467 |
| 15.51 | 58.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:21:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

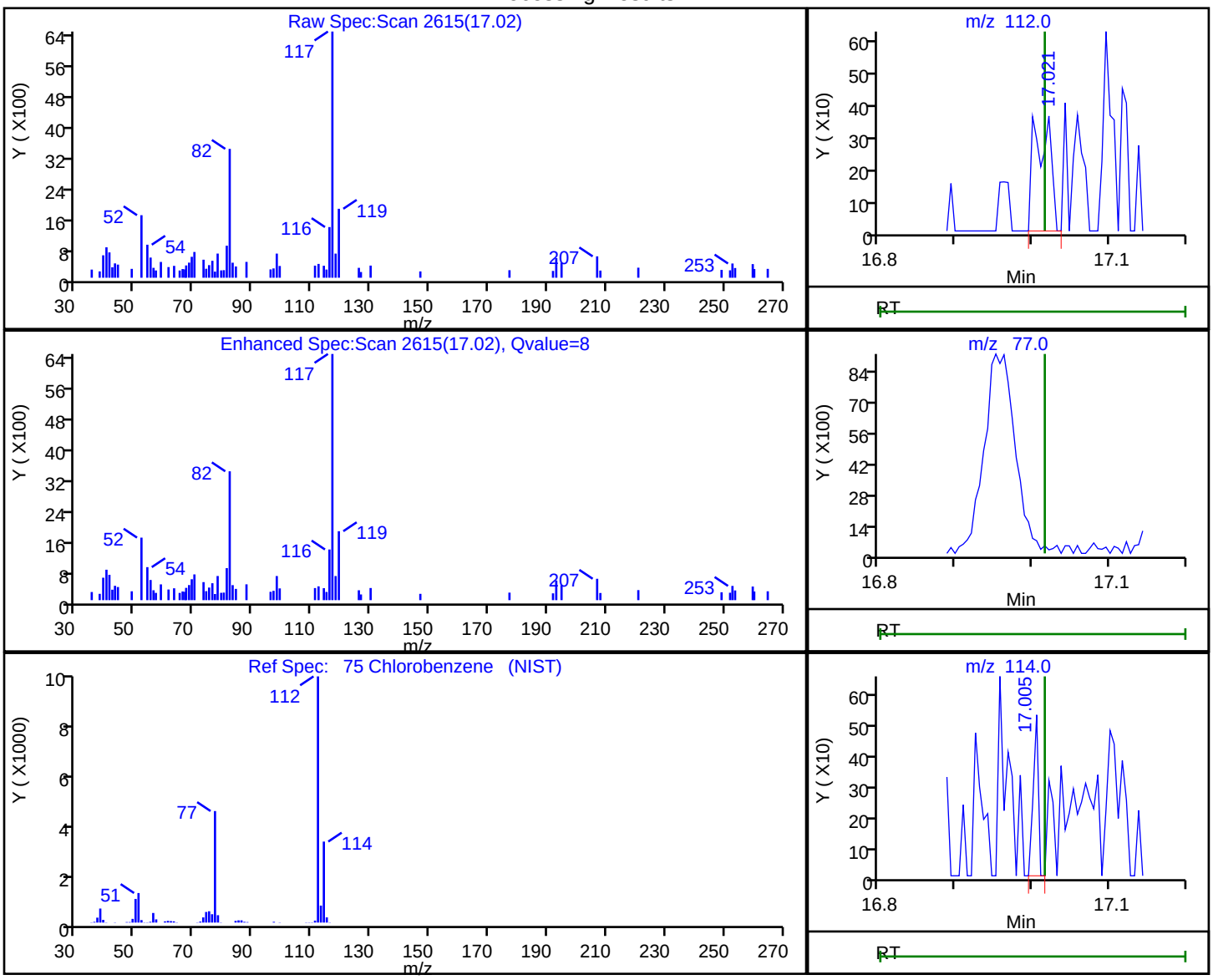
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.02 | 112.00 | 529 | 0.003396 |
| 17.02 | 77.00 | 0 | |
| 17.01 | 114.00 | 246 | |

Reviewer: bunmaa, 07-Dec-2018 09:21:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

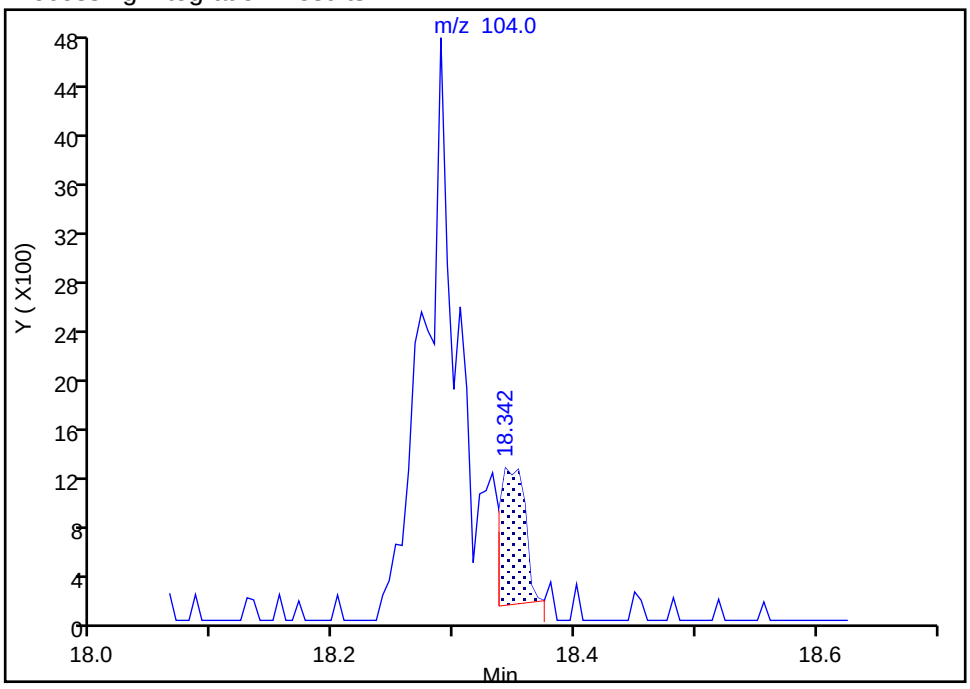
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Signal: 1

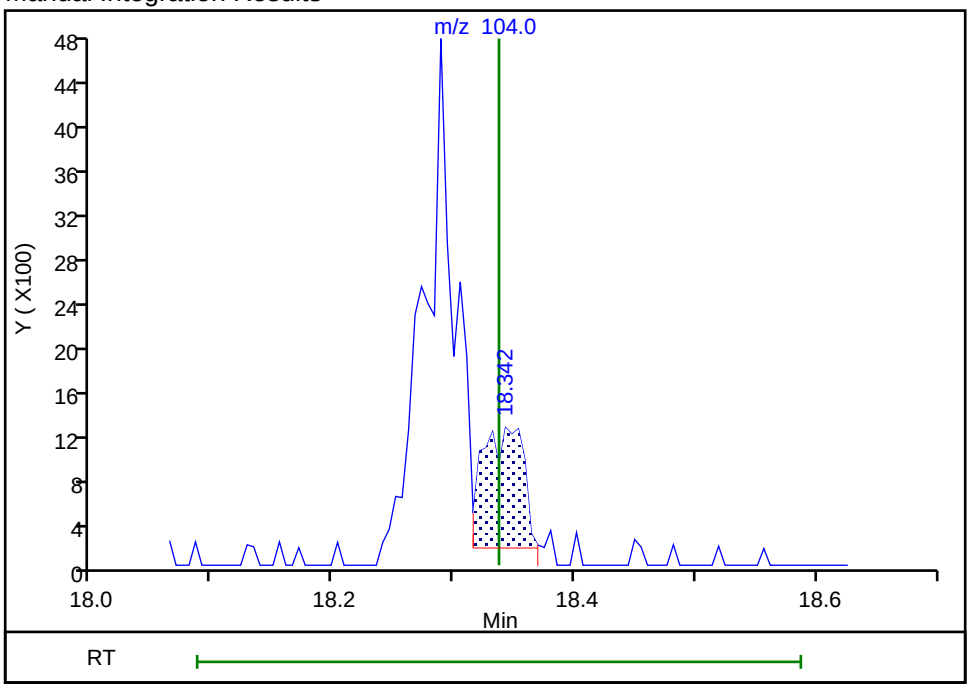
Processing Integration Results

RT: 18.34
Area: 1620
Amount: 0.012046
Amount Units: ppb v/v




Manual Integration Results

RT: 18.34
Area: 2587
Amount: 0.019237
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:21:36

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

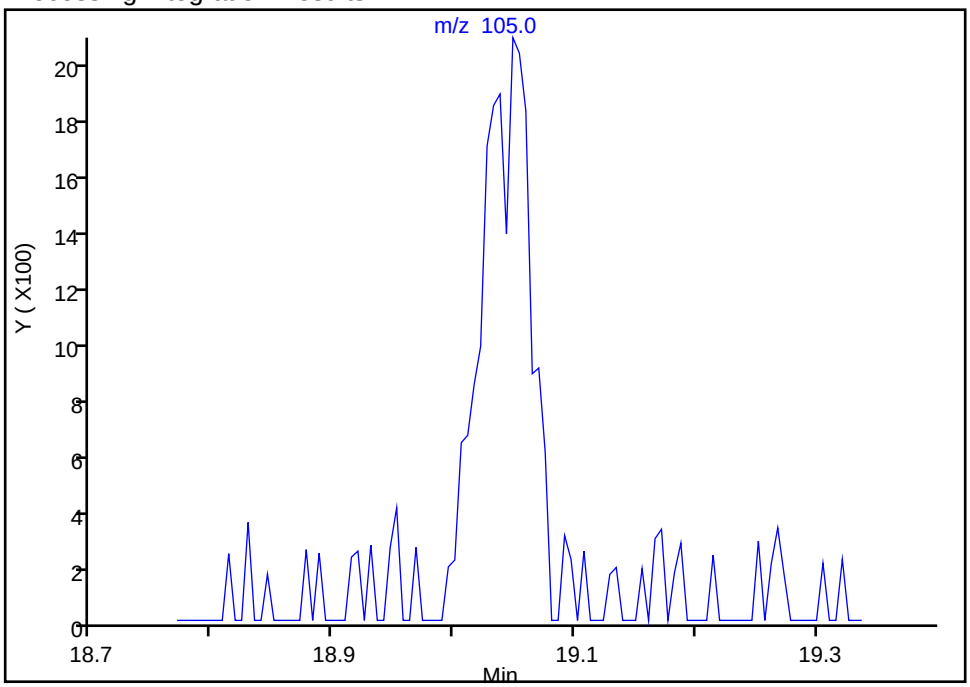
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Signal: 1

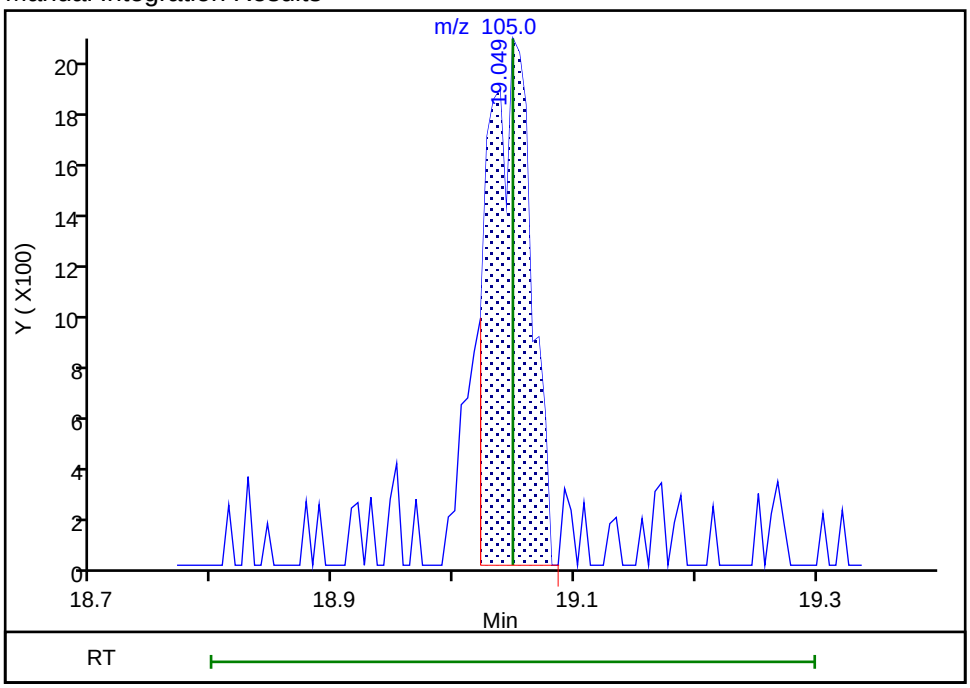
Not Detected
Expected RT: 19.05

Processing Integration Results




Manual Integration Results

RT: 19.05
Area: 5027
Amount: 0.019570
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:22:01
Audit Action: Manually Integrated Audit Reason: Assign Peak

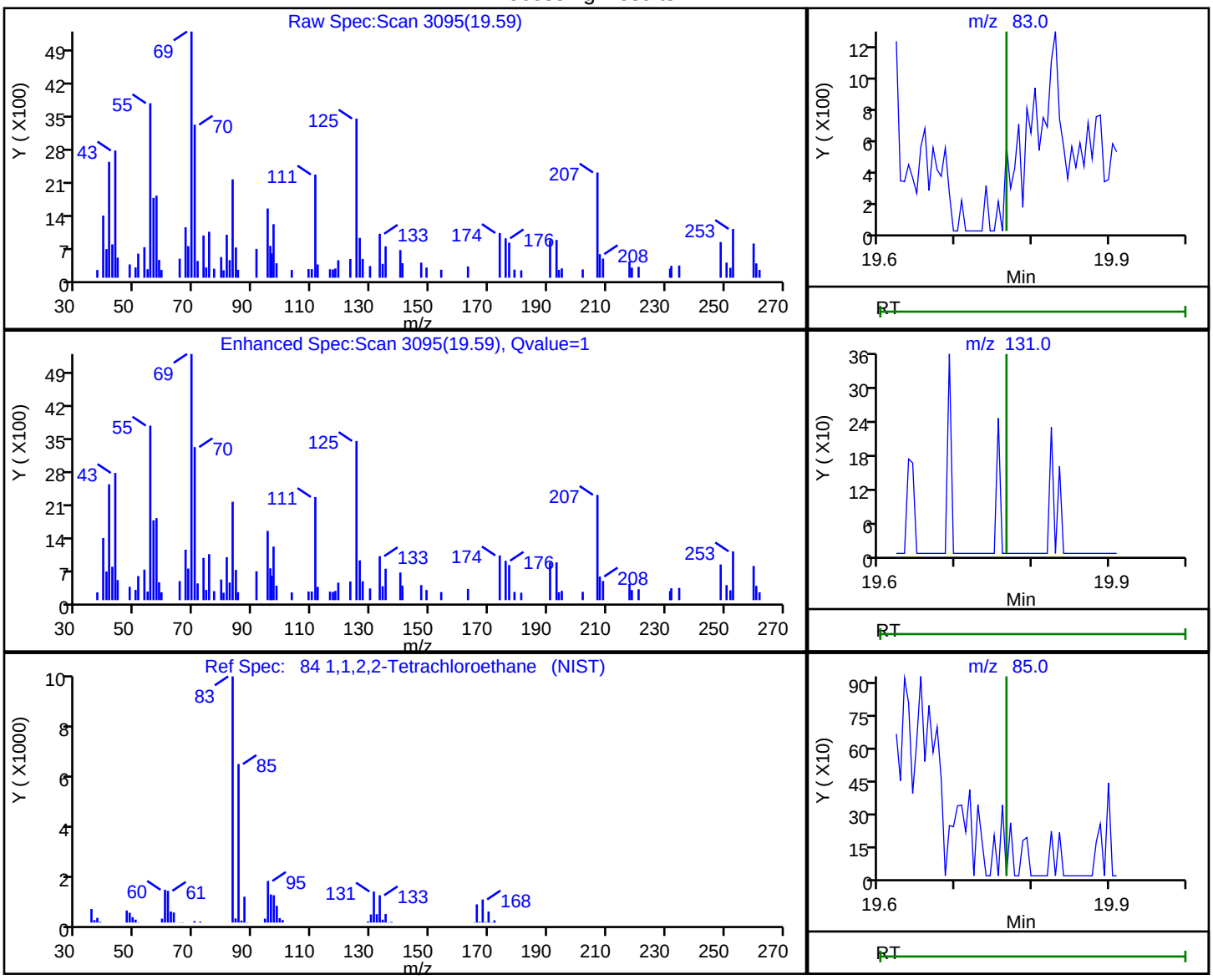
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.59 | 83.00 | 2738 | 0.019535 |
| 19.77 | 131.00 | 0 | |
| 19.77 | 85.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:36:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

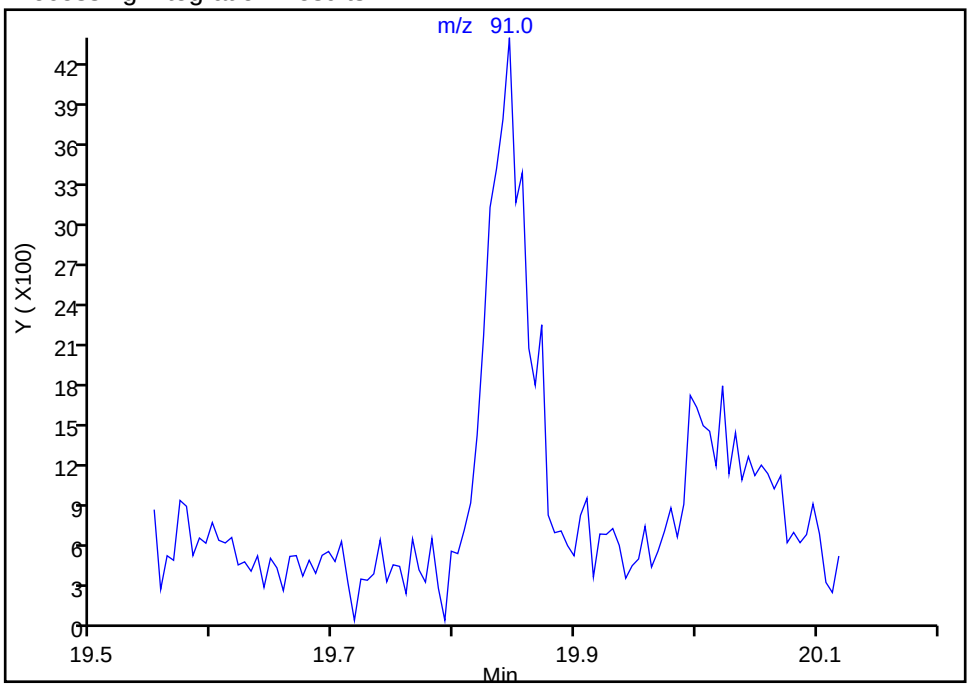
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

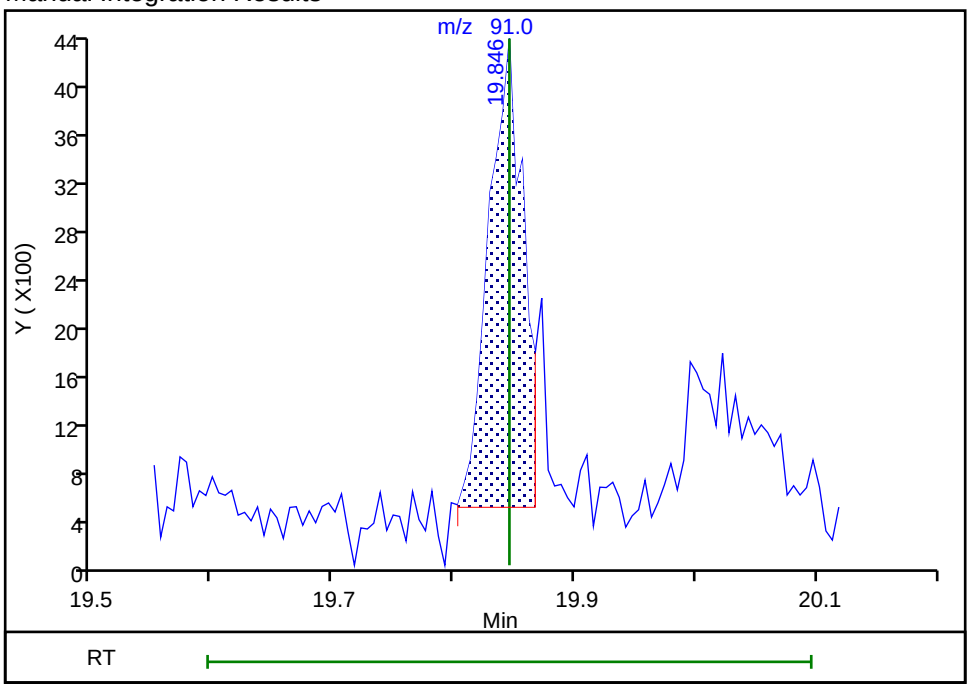
Not Detected
Expected RT: 19.85

Processing Integration Results




Manual Integration Results

RT: 19.85
Area: 7785
Amount: 0.025451
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:22:38
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

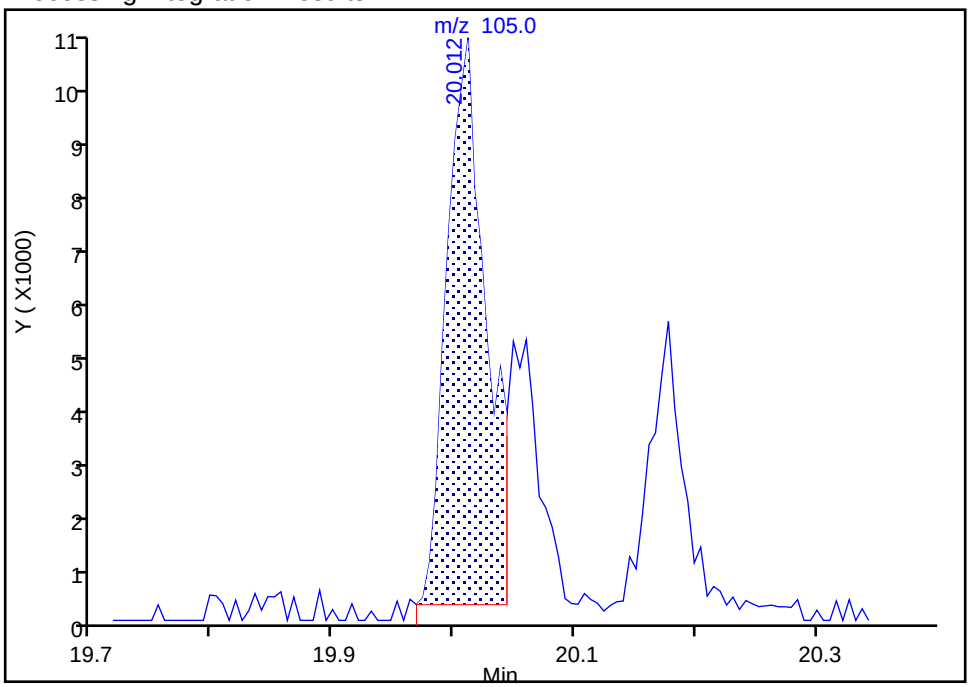
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

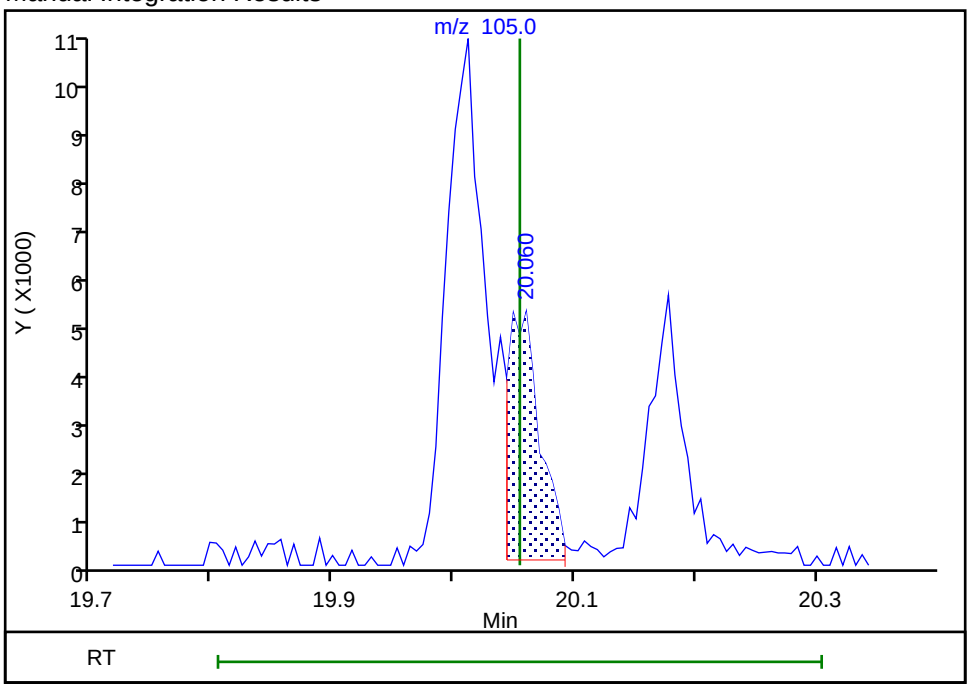
Processing Integration Results

RT: 20.01
Area: 22147
Amount: 0.085052
Amount Units: ppb v/v




Manual Integration Results

RT: 20.06
Area: 8807
Amount: 0.033822
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:23:06

Audit Action: Manually Integrated Audit Reason: Assign Peak

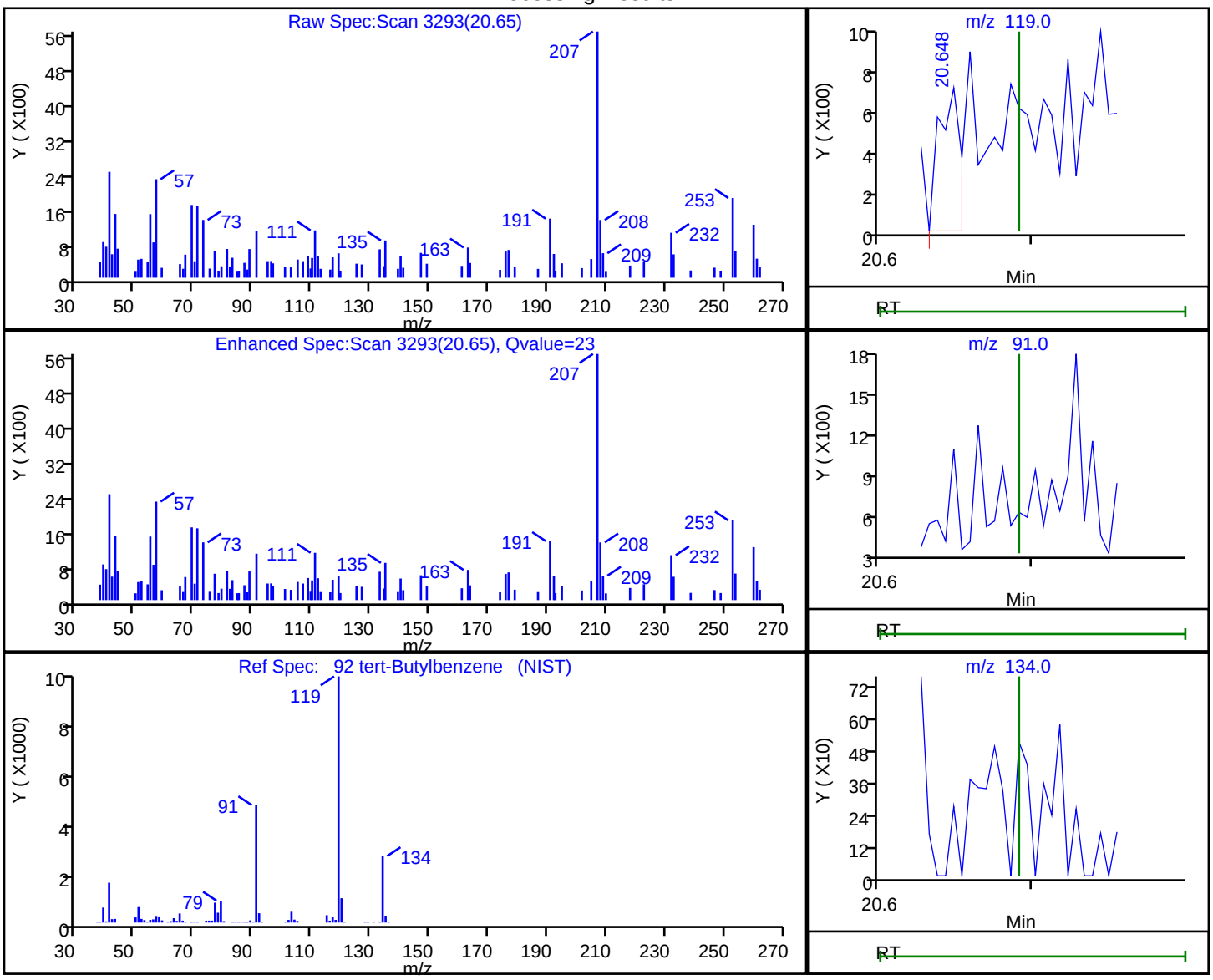
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.65 | 119.00 | 695 | 0.003335 |
| 20.69 | 91.00 | 0 | |
| 20.69 | 134.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:38:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

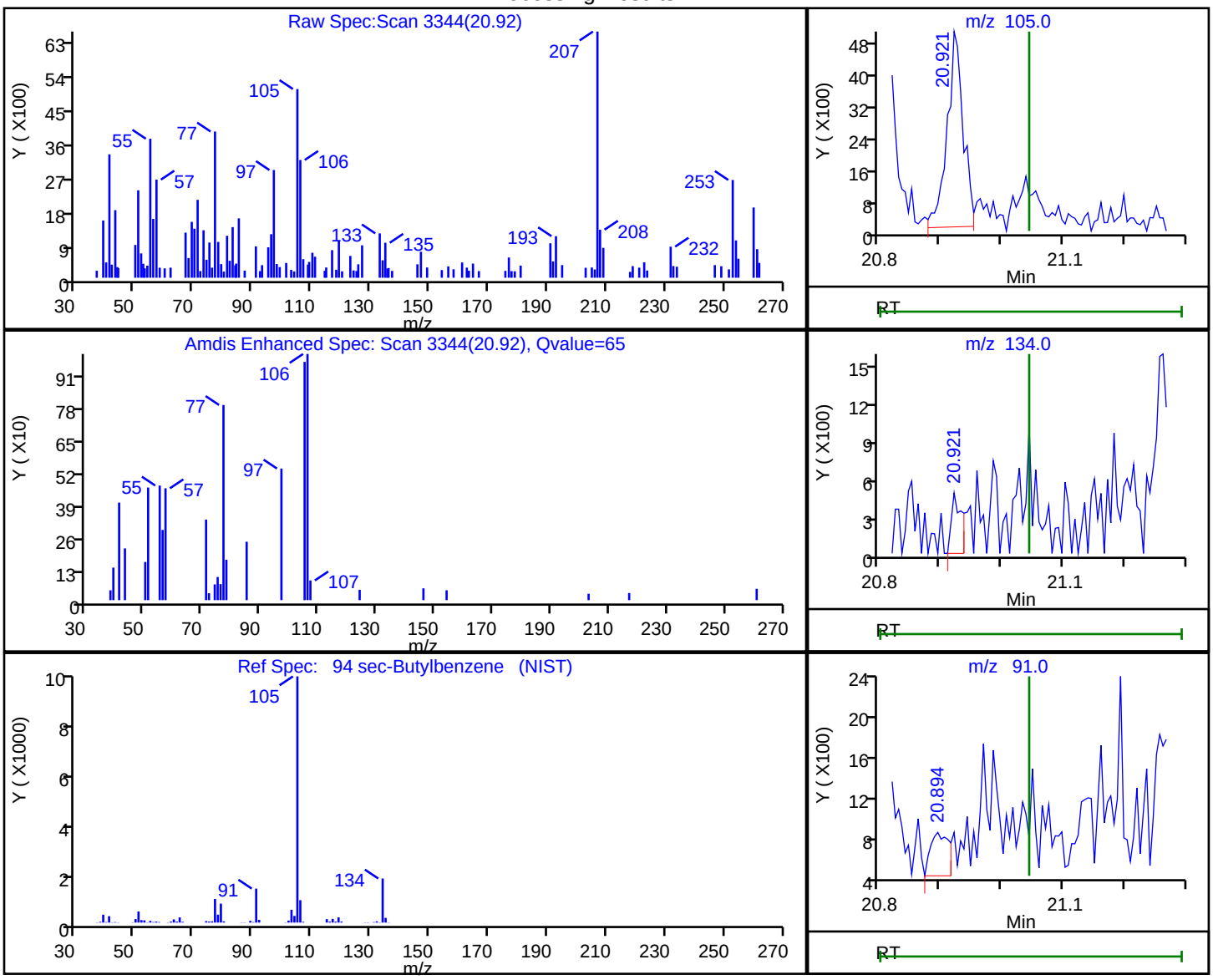
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 8985 | 0.029077 |
| 20.92 | 134.00 | 525 | |
| 20.89 | 91.00 | 864 | |

Reviewer: bunmaa, 07-Dec-2018 09:23:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

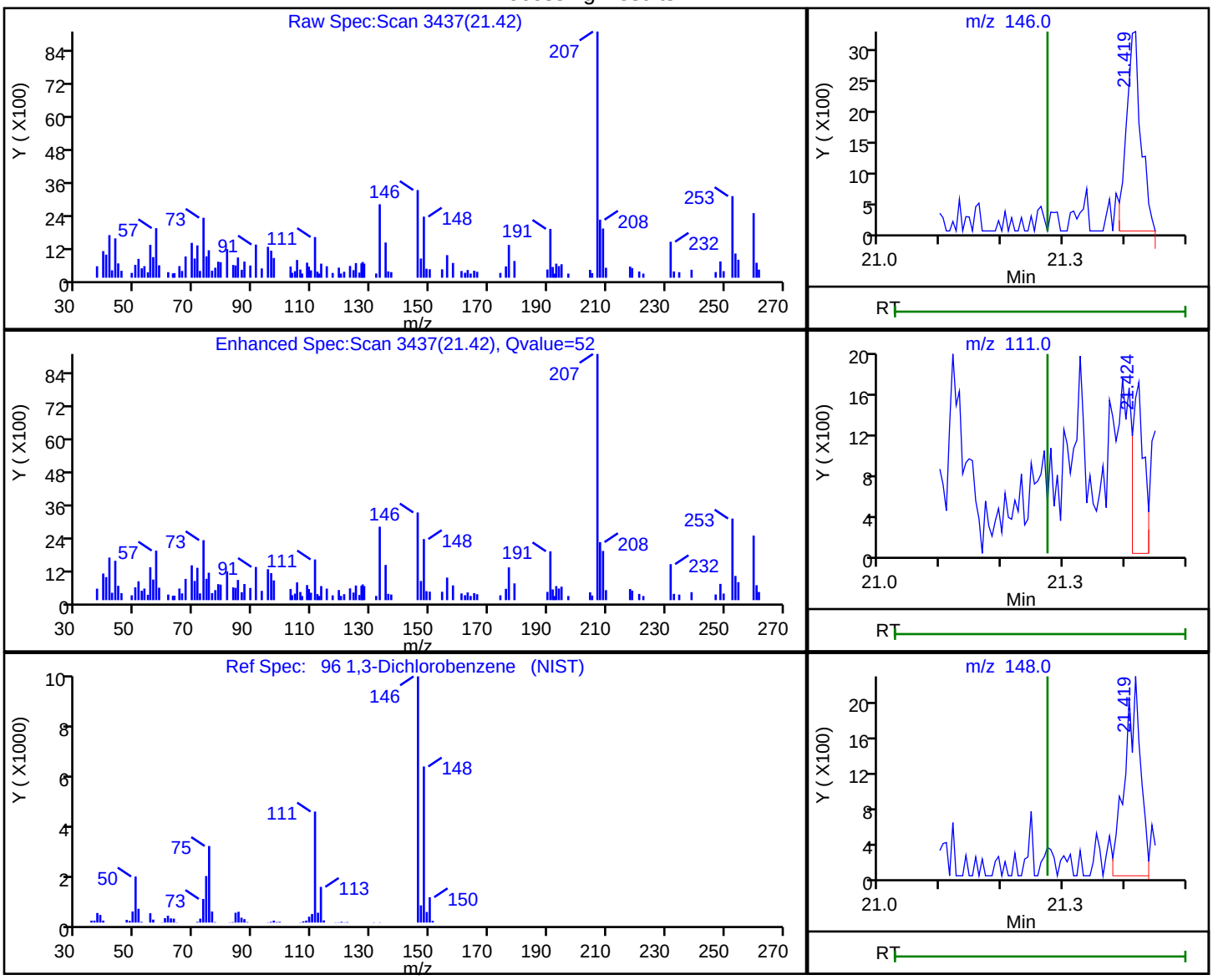
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.42 | 146.00 | 5266 | 0.029561 |
| 21.42 | 111.00 | 2083 | |
| 21.42 | 148.00 | 3988 | |

Reviewer: guazzonig, 06-Dec-2018 13:38:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

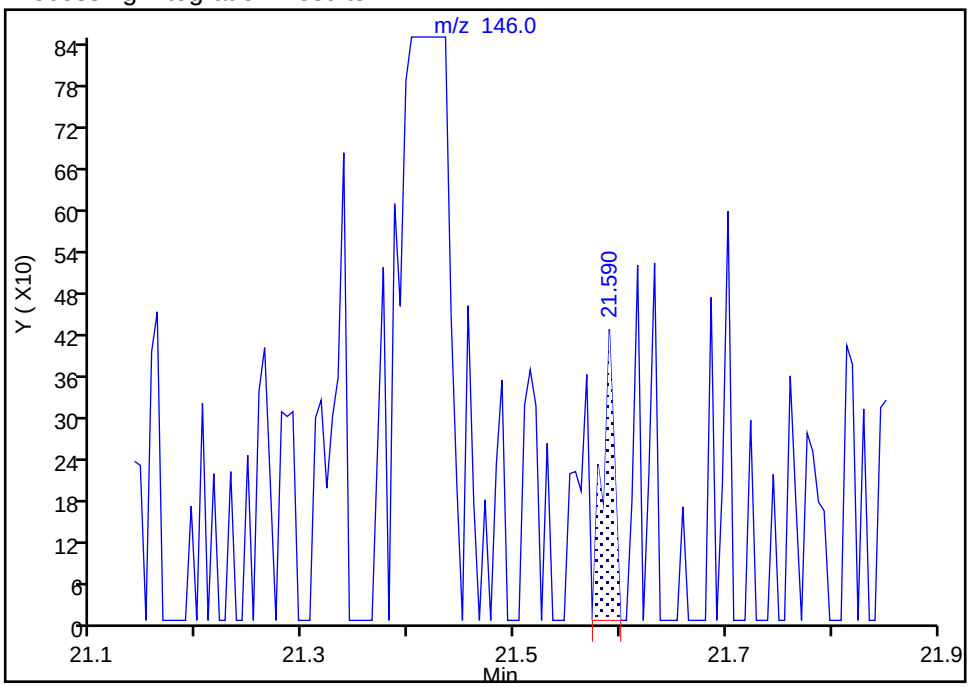
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

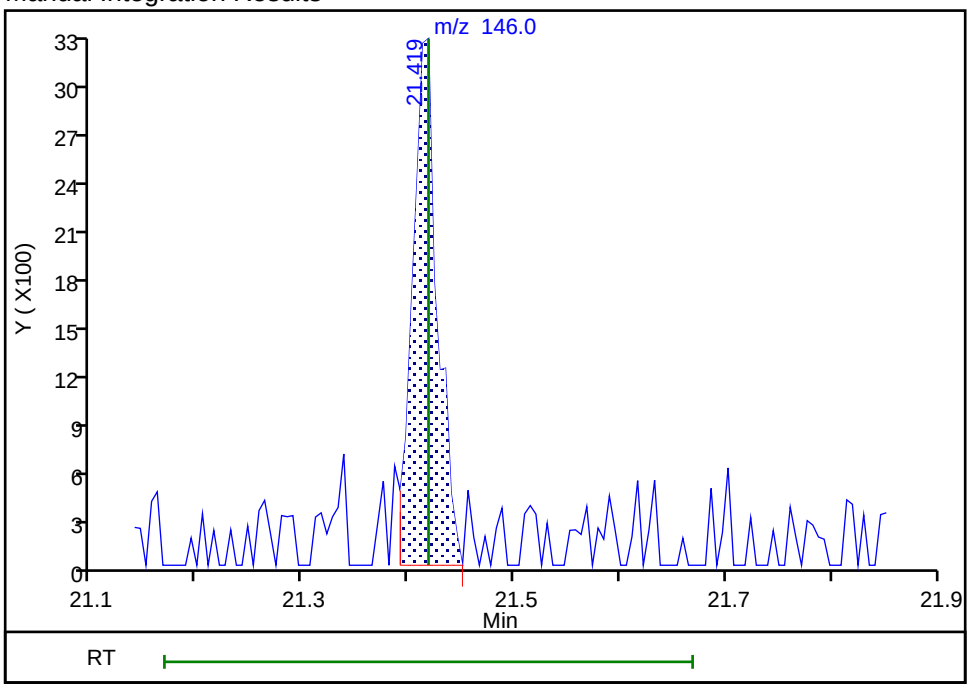
Processing Integration Results

RT: 21.59
Area: 330
Amount: 0.001937
Amount Units: ppb v/v




Manual Integration Results

RT: 21.42
Area: 5266
Amount: 0.030913
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:23:45

Audit Action: Assigned Compound ID Audit Reason: Assign Peak

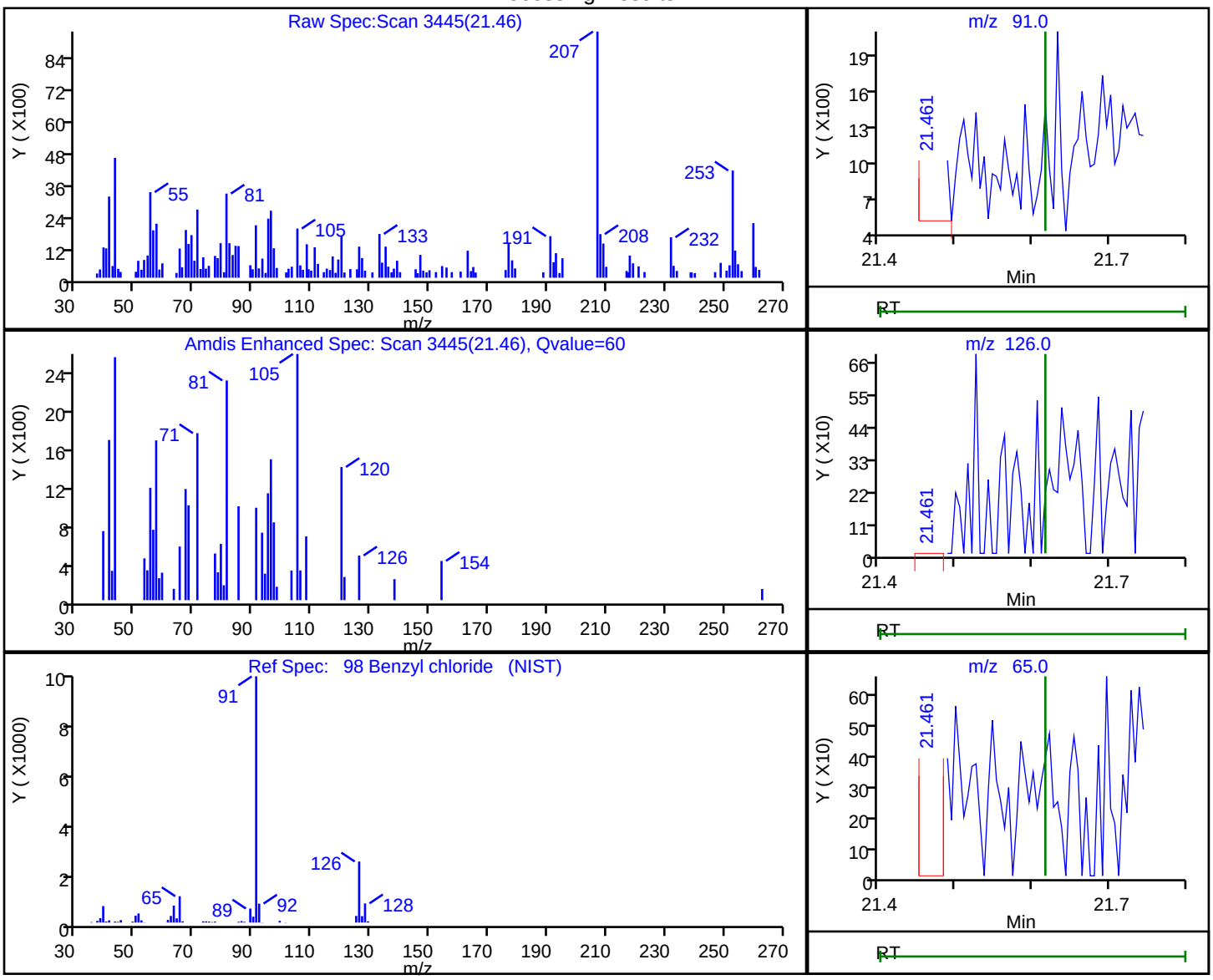
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.46 | 91.00 | 2197 | 0.010448 |
| 21.46 | 126.00 | 1479 | |
| 21.46 | 65.00 | 1245 | |

Reviewer: guazzonig, 06-Dec-2018 13:38:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

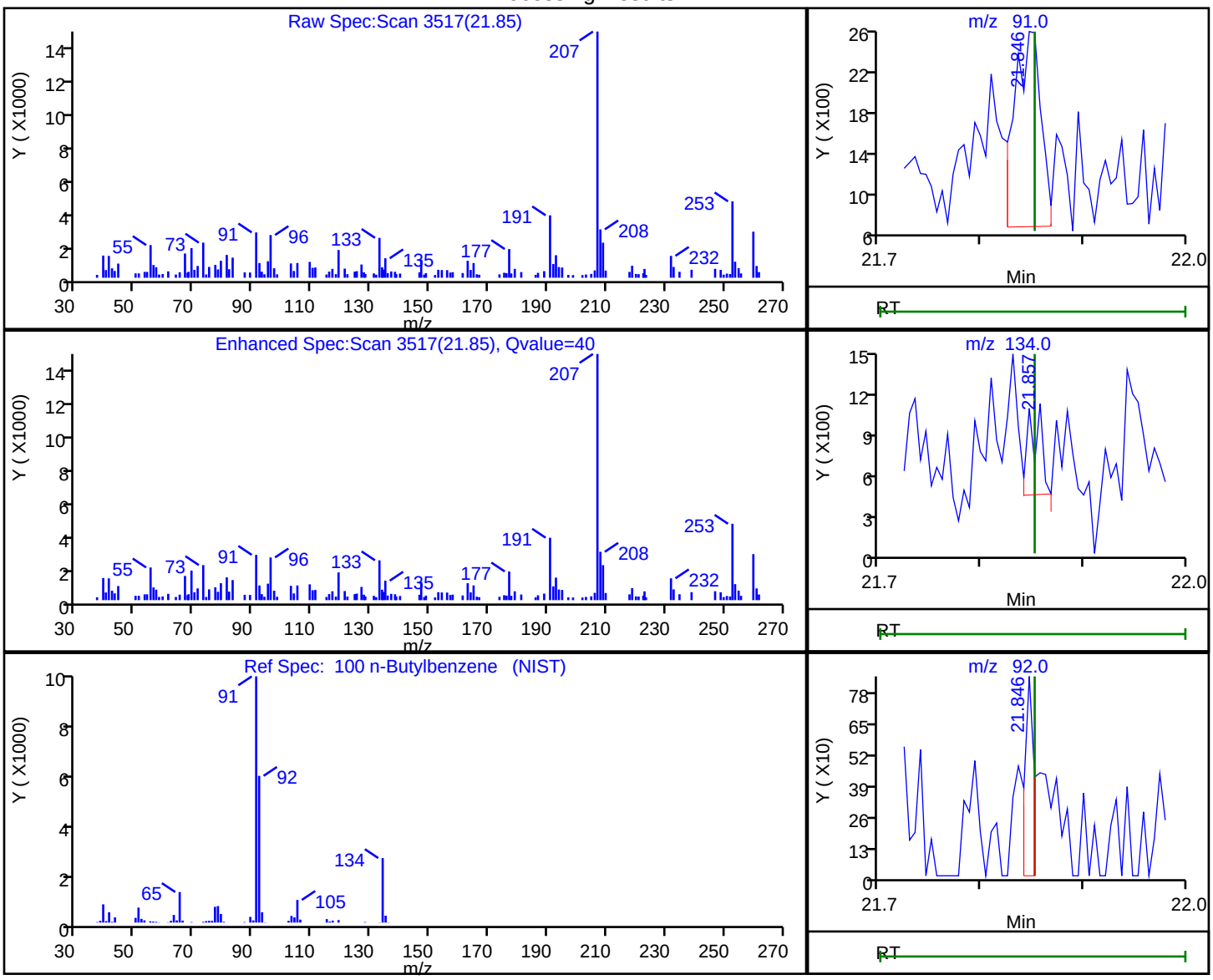
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 3490 | 0.014454 |
| 21.86 | 134.00 | 562 | |
| 21.85 | 92.00 | 523 | |

Reviewer: guazzonig, 06-Dec-2018 13:38:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

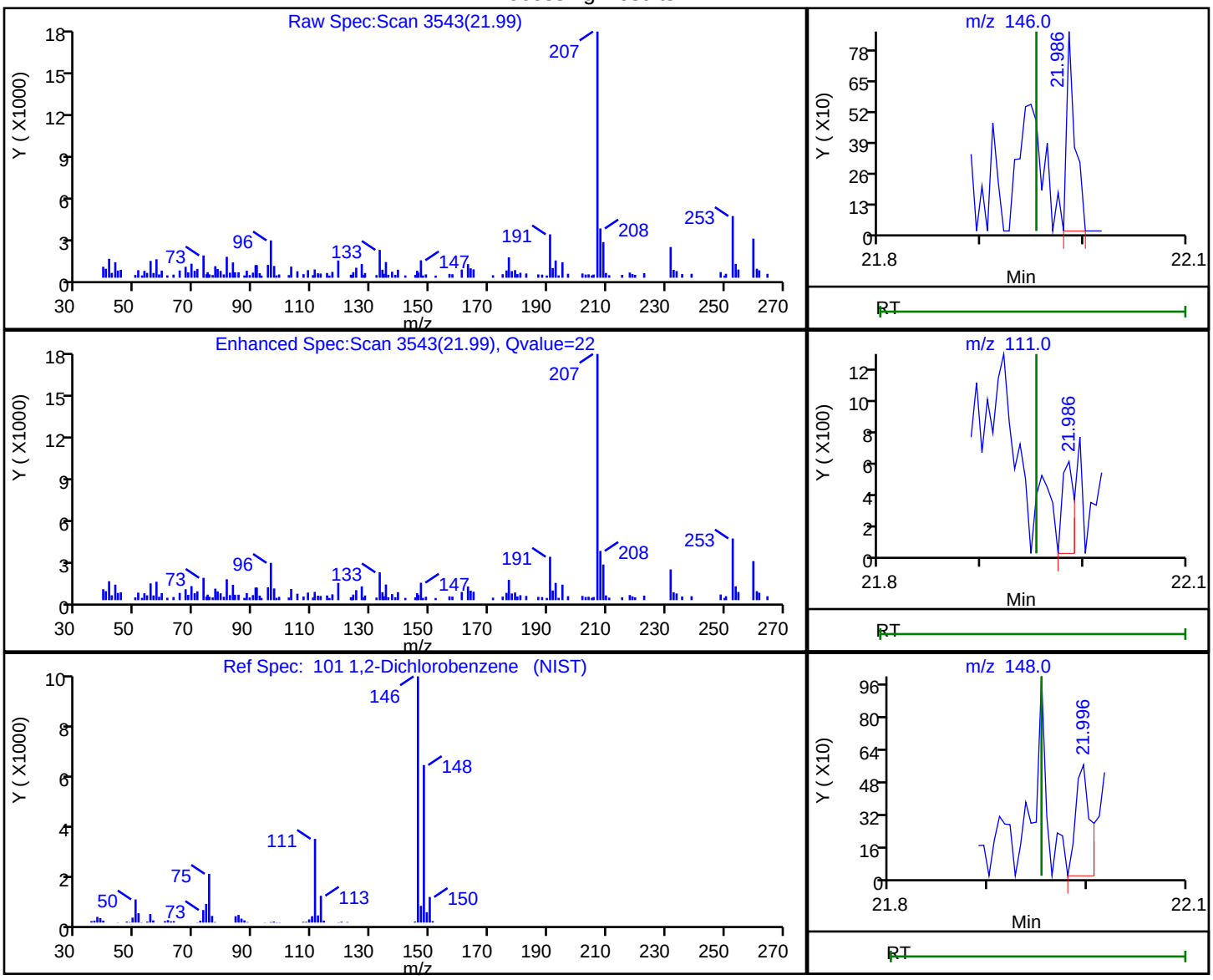
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.99 | 146.00 | 485 | 0.002962 |
| 21.99 | 111.00 | 460 | |
| 22.00 | 148.00 | 560 | |

Reviewer: bunmaa, 07-Dec-2018 09:23:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

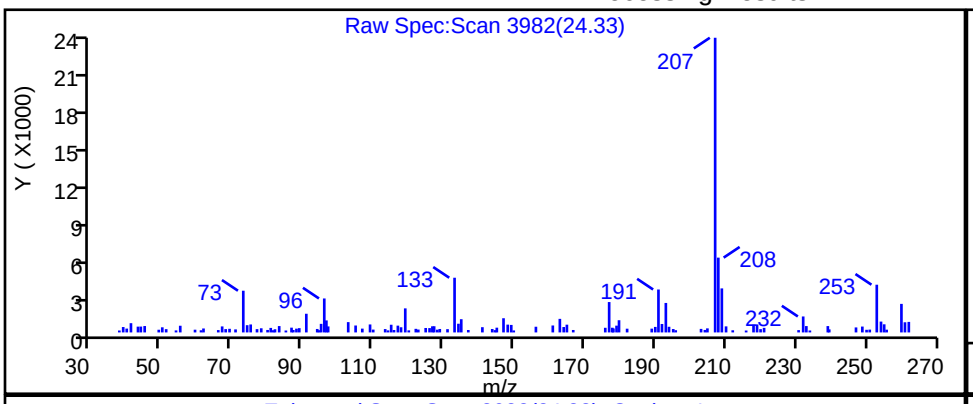
User Disabled Compound Report

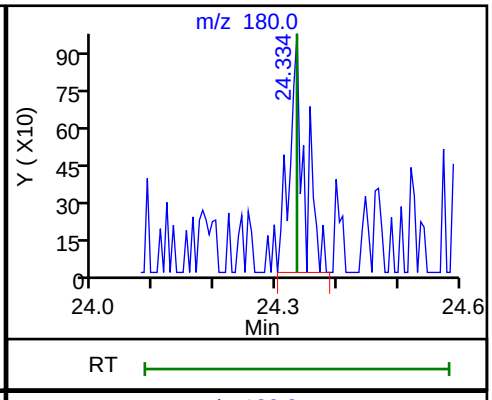
TestAmerica Burlington

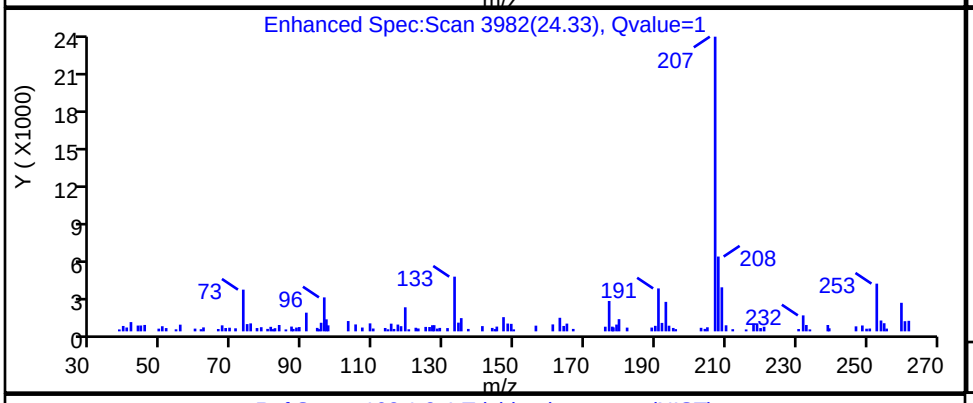
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

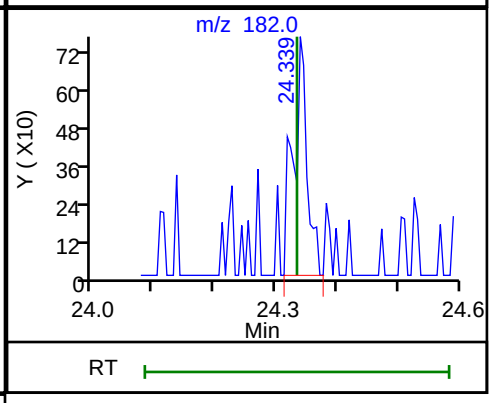
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

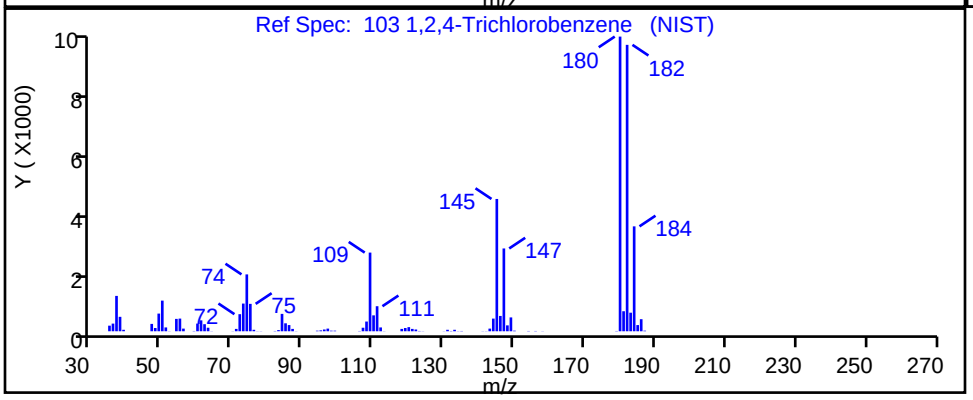
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.33 | 180.00 | 1675 | 0.013612 |
| 24.34 | 182.00 | 1203 | |

Reviewer: bunmaa, 07-Dec-2018 09:23:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

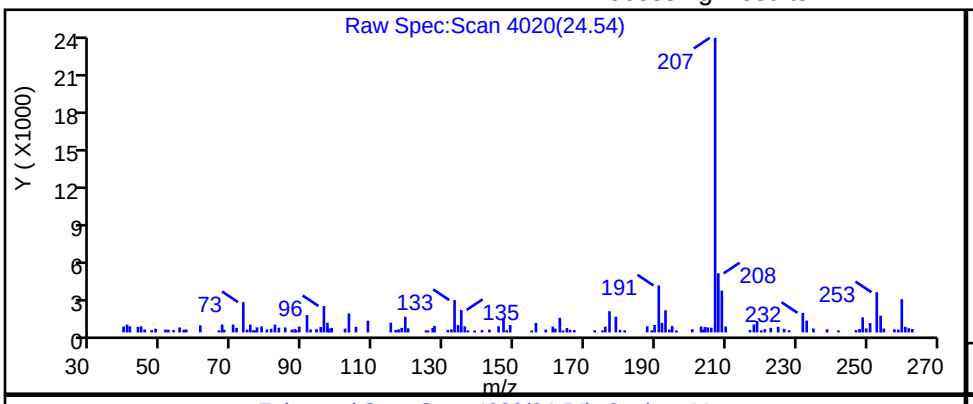
User Disabled Compound Report

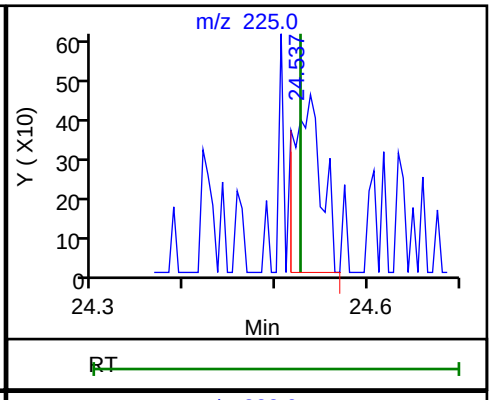
TestAmerica Burlington

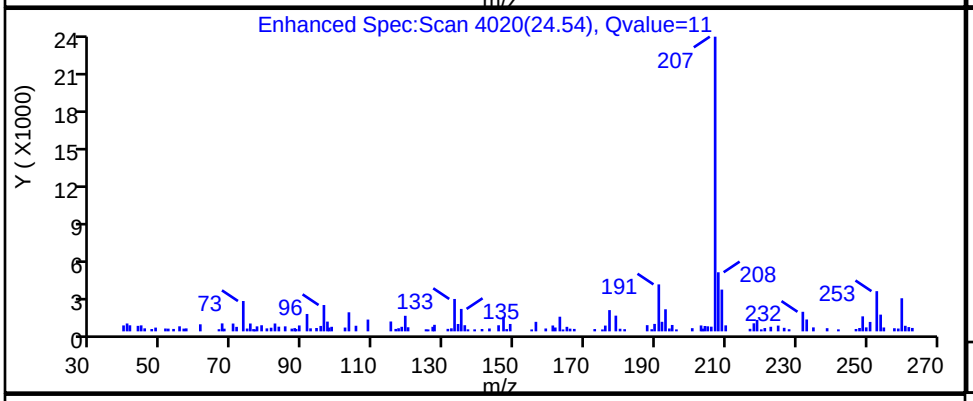
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

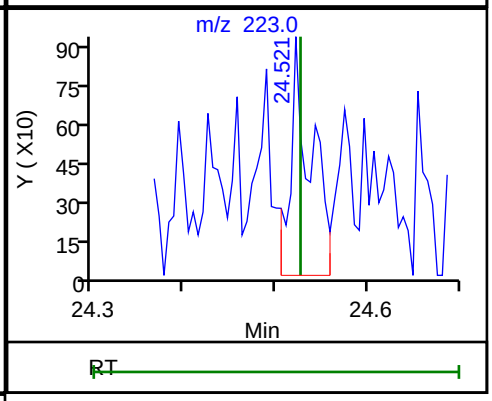
## 104 Hexachlorobutadiene, CAS: 87-68-3

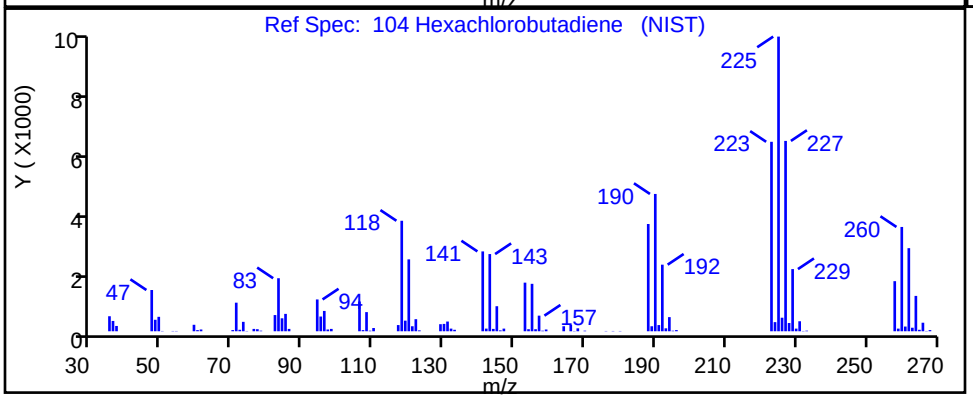
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.54 | 225.00 | 940 | 0.007679 |
| 24.52 | 223.00 | 1461 | |

Reviewer: bunmaa, 07-Dec-2018 09:24:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

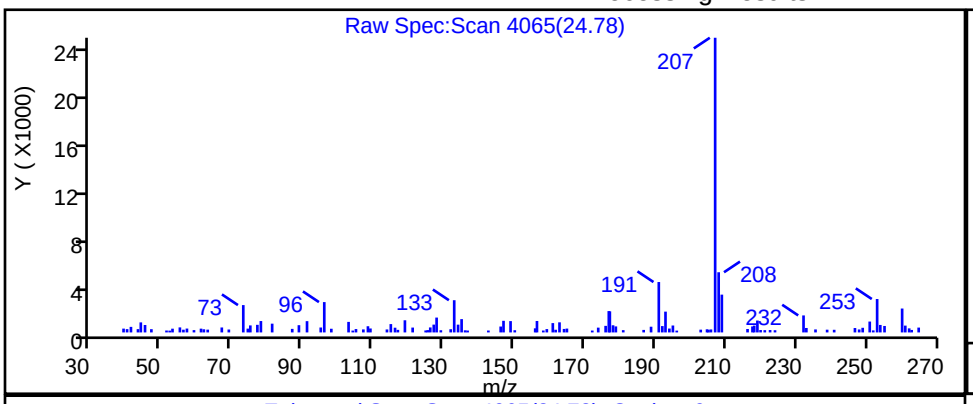
User Disabled Compound Report

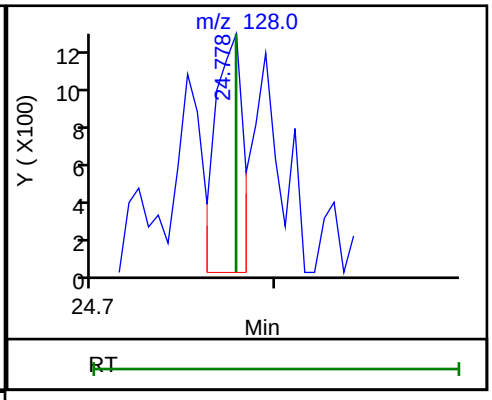
TestAmerica Burlington

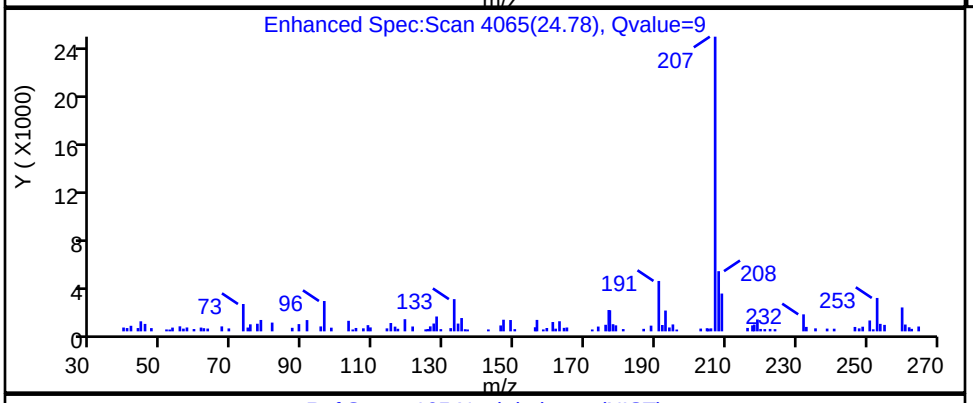
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D | | | | |
| Injection Date: | 06-Dec-2018 07:42:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 22 | Worklist Smp#: | 22 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

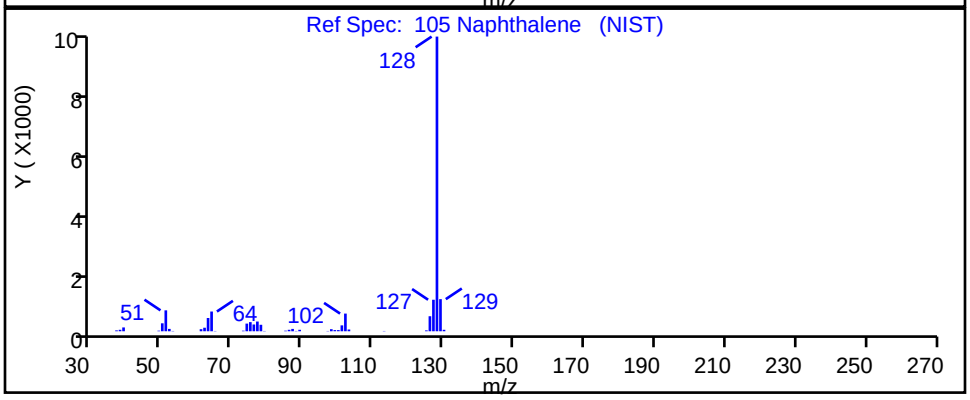
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.78 | 128.00 | 1347 | 0.005646 |

Reviewer: bunmaa, 07-Dec-2018 09:24:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 DL | Lab Sample ID: 200-46353-6 DL

Matrix: Air | Lab File ID: 200-33558-011.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 50(mL) | Date Analyzed: 12/06/2018 22:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.0 | U | 2.0 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 2.0 | U | 2.0 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.80 | U | 0.80 | |
| 74-87-3 | Chloromethane | 50.49 | 2.0 | U | 2.0 | |
| 106-97-8 | n-Butane | 58.12 | 2.5 | D | 2.0 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.31 | U | 0.31 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.80 | U | 0.80 | |
| 74-83-9 | Bromomethane | 94.94 | 0.80 | U | 0.80 | |
| 75-00-3 | Chloroethane | 64.52 | 2.0 | U | 2.0 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.80 | U | 0.80 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.80 | U | 0.80 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.80 | U | 0.80 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 120 | D | 20 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 20 | U | 20 | |
| 75-15-0 | Carbon disulfide | 76.14 | 2.0 | U | 2.0 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 2.0 | U | 2.0 | |
| 75-09-2 | Methylene Chloride | 84.93 | 2.0 | U | 2.0 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 20 | U | 20 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.80 | U | 0.80 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.80 | U | 0.80 | |
| 110-54-3 | n-Hexane | 86.17 | 0.80 | U | 0.80 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.80 | U | 0.80 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 3.3 | D | 2.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.80 | U | 0.80 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 20 | U | 20 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.80 | U | 0.80 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.80 | U | 0.80 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.14 | U | 0.14 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.80 | U | 0.80 | |
| 71-43-2 | Benzene | 78.11 | 0.80 | U | 0.80 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.80 | U | 0.80 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 DL | Lab Sample ID: 200-46353-6 DL

Matrix: Air | Lab File ID: 200-33558-011.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 50(mL) | Date Analyzed: 12/06/2018 22:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.80 | U | 0.80 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.14 | U | 0.14 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.80 | U | 0.80 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 20 | U | 20 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.80 | U | 0.80 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.80 | U | 0.80 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 0.80 | U | 0.80 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.80 | U | 0.80 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.80 | U | 0.80 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.80 | U | 0.80 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.80 | U | 0.80 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.80 | U | 0.80 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.80 | U | 0.80 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.3 | D | 0.80 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 6.2 | D | 2.0 | |
| 95-47-6 | o-Xylene | 106.17 | 2.1 | D | 0.80 | |
| 100-42-5 | Styrene | 104.15 | 0.80 | U | 0.80 | |
| 75-25-2 | Bromoform | 252.75 | 0.80 | U | 0.80 | |
| 98-82-8 | Cumene | 120.19 | 0.80 | U | 0.80 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.80 | U | 0.80 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.80 | U | 0.80 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.80 | U | 0.80 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.80 | U | 0.80 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.80 | U | 0.80 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.80 | U | 0.80 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.80 | U | 0.80 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.80 | U | 0.80 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.80 | U | 0.80 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.80 | U | 0.80 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.80 | U | 0.80 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 DL  Lab Sample ID: 200-46353-6 DL

Matrix: Air  Lab File ID: 200-33558-011.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:58

Sample wt/vol: 50(mL)  Date Analyzed: 12/06/2018 22:33

Soil Aliquot Vol:  Dilution Factor: 4

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| *100-44-7* | *Benzyl chloride* | *126.58* | *0.80* | *U* | *0.80* | |
| *104-51-8* | *n-Butylbenzene* | *134.22* | *0.80* | *U* | *0.80* | |
| *95-50-1* | *1,2-Dichlorobenzene* | *147.00* | *0.80* | *U* | *0.80* | |
| *120-82-1* | *1,2,4-Trichlorobenzene* | *181.45* | *2.0* | *U* | *2.0* | |
| *87-68-3* | *Hexachlorobutadiene* | *260.76* | *0.80* | *U* | *0.80* | |
| *91-20-3* | *Naphthalene* | *128.17* | *2.0* | *U* | *2.0* | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 DL | Lab Sample ID: 200-46353-6 DL

Matrix: Air | Lab File ID: 200-33558-011.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 50(mL) | Date Analyzed: 12/06/2018 22:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 9.9 | U | 9.9 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 7.1 | U | 7.1 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 5.6 | U | 5.6 | |
| 74-87-3 | Chloromethane | 50.49 | 4.1 | U | 4.1 | |
| 106-97-8 | n-Butane | 58.12 | 6.0 | D | 4.8 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.80 | U | 0.80 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 1.8 | U | 1.8 | |
| 74-83-9 | Bromomethane | 94.94 | 3.1 | U | 3.1 | |
| 75-00-3 | Chloroethane | 64.52 | 5.3 | U | 5.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 3.5 | U | 3.5 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 4.5 | U | 4.5 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 6.1 | U | 6.1 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.56 | U | 0.56 | |
| 67-64-1 | Acetone | 58.08 | 290 | D | 48 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 49 | U | 49 | |
| 75-15-0 | Carbon disulfide | 76.14 | 6.2 | U | 6.2 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 6.3 | U | 6.3 | |
| 75-09-2 | Methylene Chloride | 84.93 | 6.9 | U | 6.9 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 61 | U | 61 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 2.9 | U | 2.9 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 3.2 | U | 3.2 | |
| 110-54-3 | n-Hexane | 86.17 | 2.8 | U | 2.8 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 3.2 | U | 3.2 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 9.7 | D | 5.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.80 | U | 0.80 | |
| 67-66-3 | Chloroform | 119.38 | 3.9 | U | 3.9 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 59 | U | 59 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 4.4 | U | 4.4 | |
| 110-82-7 | Cyclohexane | 84.16 | 2.8 | U | 2.8 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.88 | U | 0.88 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 3.7 | U | 3.7 | |
| 71-43-2 | Benzene | 78.11 | 2.6 | U | 2.6 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 3.2 | U | 3.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 DL | Lab Sample ID: 200-46353-6 DL

Matrix: Air | Lab File ID: 200-33558-011.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 50(mL) | Date Analyzed: 12/06/2018 22:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 3.3 | U | 3.3 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.75 | U | 0.75 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 8.2 | U | 8.2 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 3.7 | U | 3.7 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 72 | U | 72 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 5.4 | U | 5.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 3.6 | U | 3.6 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 8.2 | U | 8.2 | |
| 108-88-3 | Toluene | 92.14 | 3.0 | U | 3.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 3.6 | U | 3.6 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 4.4 | U | 4.4 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 5.4 | U | 5.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 8.2 | U | 8.2 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 6.8 | U | 6.8 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 6.1 | U | 6.1 | |
| 108-90-7 | Chlorobenzene | 112.56 | 3.7 | U | 3.7 | |
| 100-41-4 | Ethylbenzene | 106.17 | 5.4 | D | 3.5 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 27 | D | 8.7 | |
| 95-47-6 | o-Xylene | 106.17 | 9.0 | D | 3.5 | |
| 100-42-5 | Styrene | 104.15 | 3.4 | U | 3.4 | |
| 75-25-2 | Bromoform | 252.75 | 8.3 | U | 8.3 | |
| 98-82-8 | Cumene | 120.19 | 3.9 | U | 3.9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 5.5 | U | 5.5 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 3.9 | U | 3.9 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 3.9 | U | 3.9 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 3.9 | U | 3.9 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 4.1 | U | 4.1 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 4.4 | U | 4.4 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 3.9 | U | 3.9 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 4.4 | U | 4.4 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 4.4 | U | 4.4 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 4.8 | U | 4.8 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 4.8 | U | 4.8 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 DL | Lab Sample ID: 200-46353-6 DL

Matrix: Air | Lab File ID: 200-33558-011.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 50(mL) | Date Analyzed: 12/06/2018 22:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| *100-44-7* | *Benzyl chloride* | *126.58* | *4.1* | *U* | *4.1* | |
| *104-51-8* | *n-Butylbenzene* | *134.22* | *4.4* | *U* | *4.4* | |
| *95-50-1* | *1,2-Dichlorobenzene* | *147.00* | *4.8* | *U* | *4.8* | |
| *120-82-1* | *1,2,4-Trichlorobenzene* | *181.45* | *15* | *U* | *15* | |
| *87-68-3* | *Hexachlorobutadiene* | *260.76* | *8.5* | *U* | *8.5* | |
| *91-20-3* | *Naphthalene* | *128.17* | *10* | *U* | *10* | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D
Lims ID: 200-46353-A-6
Client ID: IA-5_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 22:33:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 4.0000
Sample Info: 200-0033558-011
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 16:35:54 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0315

First Level Reviewer: puangmaleek Date: 07-Dec-2018 16:35:54

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.149 | -0.005 | 99 | 30259 | 0.1453 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.179 | -0.005 | 96 | 10859 | 0.1225 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.347 | | | | ND | U |
| 5 Chloromethane | 50 | 3.460 | 3.460 | 0.001 | 96 | 7591 | 0.1873 | |
| 6 Butane | 43 | 3.604 | 3.600 | 0.000 | 96 | 34572 | 0.6337 | |
| 7 Vinyl chloride | 62 | | 3.641 | | | | ND | U |
| 8 Butadiene | 54 | | 3.695 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.685 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.760 | 4.759 | 0.001 | 94 | 9622 | 0.0585 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.605 | | | | ND | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.846 | 5.856 | -0.010 | 99 | 1316455 | 30.3 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 13183 | 0.1004 | |
| 24 Isopropyl alcohol | 45 | 6.129 | 6.084 | 0.037 | 99 | 18674 | 0.3888 | |
| 25 3-Chloro-1-propene | 41 | | 6.306 | | | | ND | U |
| 27 Methylene Chloride | 49 | 6.552 | 6.546 | -0.005 | 81 | 5478 | 0.1189 | |
| 28 2-Methyl-2-propanol | 59 | | 6.766 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.937 | | | | ND | U |
| 31 trans-1,2-Dichloroethene | 61 | | 6.947 | | | | ND | U |
| 33 Hexane | 57 | 7.285 | 7.290 | -0.005 | 89 | 5493 | 0.1114 | |
| 34 1,1-Dichloroethane | 63 | | 7.723 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.729 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.799 | 8.820 | 0.011 | 100 | 12781 | 0.8194 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.157 | -0.005 | 74 | 558309 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.205 | | | | ND | U |
| 42 Chloroform | 83 | | 9.269 | | | | ND | |
| 43 Cyclohexane | 84 | 9.521 | 9.526 | -0.010 | 70 | 4890 | 0.0887 | |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.767 | 0.000 | 41 | 2444 | 0.0171 | |
| 46 Isooctane | 57 | 10.195 | 10.195 | -0.005 | 72 | 6851 | 0.0376 | M |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | 10.216 | 10.211 | 0.000 | 96 | 12021 | 0.0940 | |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| | 49 n-Heptane | 43 | | 10.569 | | | | ND | Ua |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2402407 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.484 | | | | ND | |
| | 54 1,2-Dichloropropane | 63 | | 12.019 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.201 | | | | ND | |
| | 56 1,4-Dioxane | 88 | 12.324 | 12.275 | 0.043 | 86 | 9997 | 0.4251 | |
| | 58 Dichlorobromomethane | 83 | | 12.554 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.474 | | | | ND | U |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | 13.811 | 13.795 | 0.021 | 93 | 12172 | 0.1463 | |
| | 65 Toluene | 92 | 14.052 | 14.063 | -0.011 | 94 | 19355 | 0.1978 | |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.656 | | | | ND | U |
| | 67 1,1,2-Trichloroethane | 83 | | 15.026 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 15.143 | 15.143 | 0.005 | 59 | 3543 | 0.0302 | M |
| | 69 2-Hexanone | 43 | | 15.507 | | | | ND | U |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.042 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 16.952 | 16.957 | -0.005 | 85 | 2415939 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | 17.187 | 17.176 | 0.006 | 98 | 69092 | 0.3135 | |
| | 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.438 | 0.000 | 0 | 138044 | 1.55 | |
| | 79 o-Xylene | 106 | 18.278 | 18.294 | -0.005 | 97 | 44163 | 0.5202 | |
| | 80 Styrene | 104 | | 18.342 | | | | ND | U |
| | 81 Bromoform | 173 | | 18.781 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 19.043 | | | | ND | |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | | 19.840 | | | | ND | |
| | 89 2-Chlorotoluene | 91 | | 20.049 | | | | ND | |
| | 88 4-Ethyltoluene | 105 | 20.065 | 20.065 | 0.011 | 41 | 2025 | 0.008047 | 7a |
| | 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.172 | 0.000 | 51 | 2068 | 0.009605 | |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.798 | 0.000 | 59 | 6264 | 0.0295 | |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| | 95 4-Isopropyltoluene | 119 | | 21.263 | | | | ND | U |
| | 96 1,3-Dichlorobenzene | 146 | | 21.269 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | | 21.413 | | | | ND | U |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.846 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.948 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.527 | | | | ND | U |
| | 105 Naphthalene | 128 | | 24.773 | | | | ND | U |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

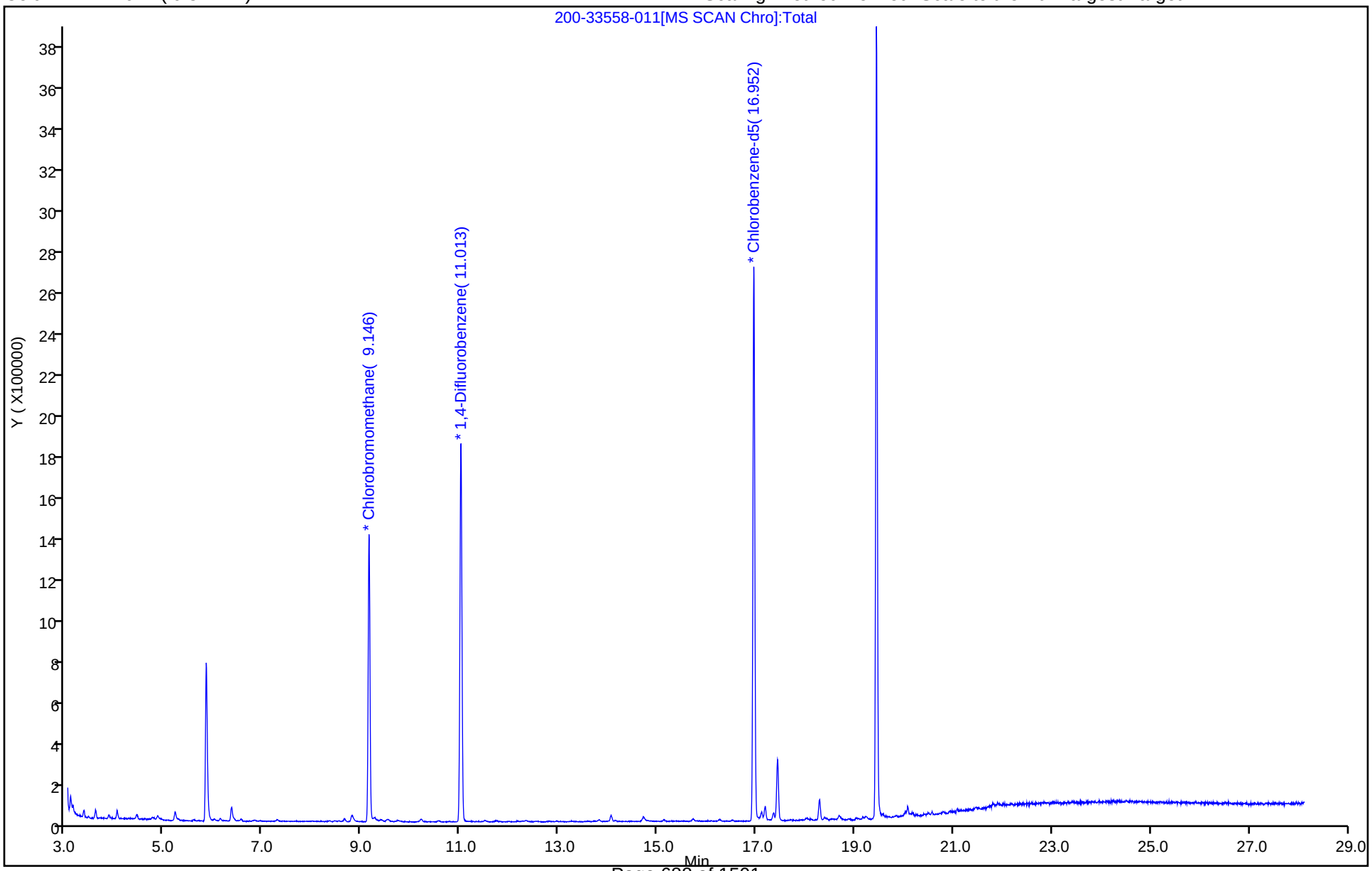
Report Date: 07-Dec-2018 16:35:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | Worklist Smp#: | 11 |
| Client ID: | IA-5_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | ALS Bottle#: | 11 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



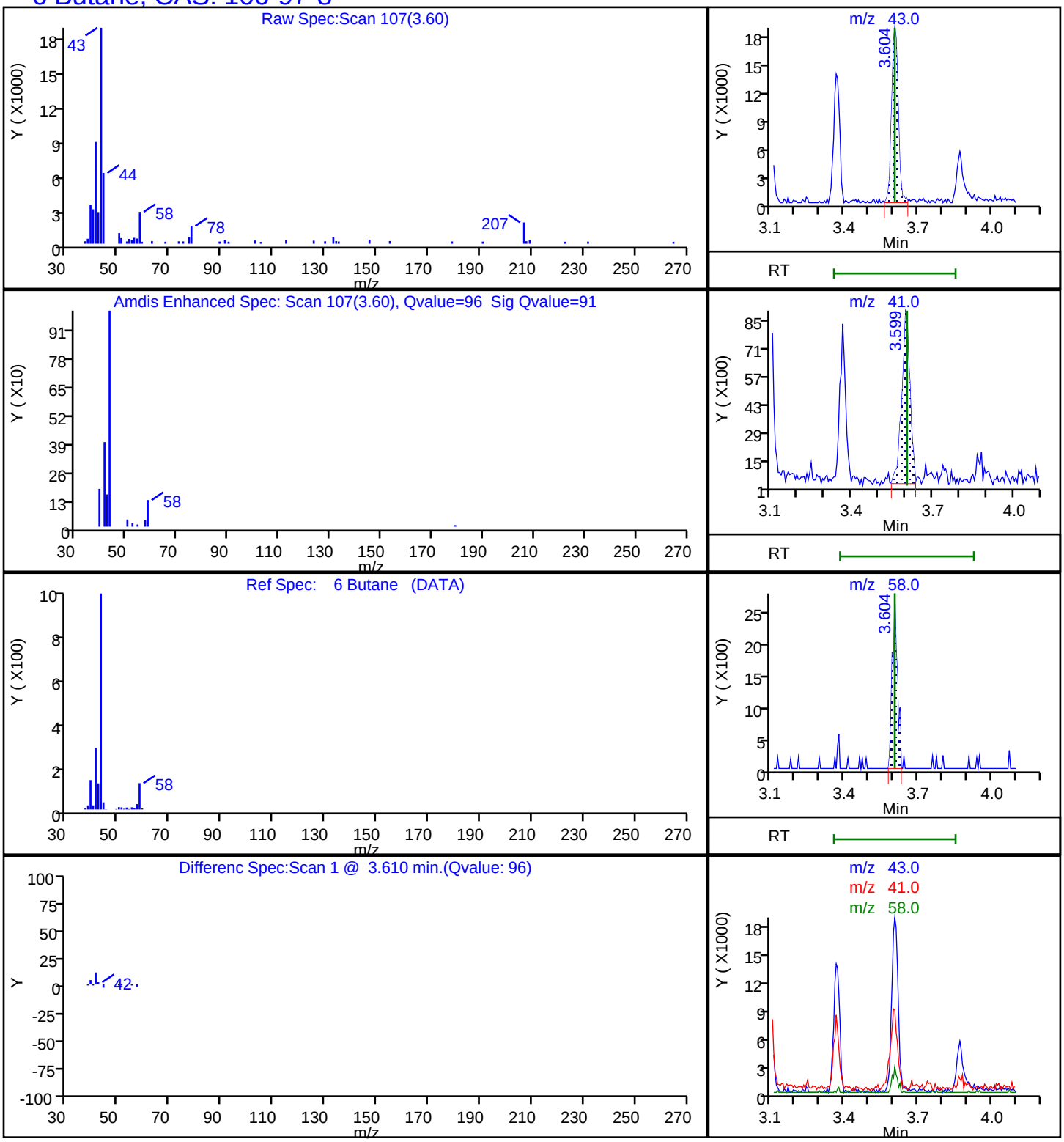
Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



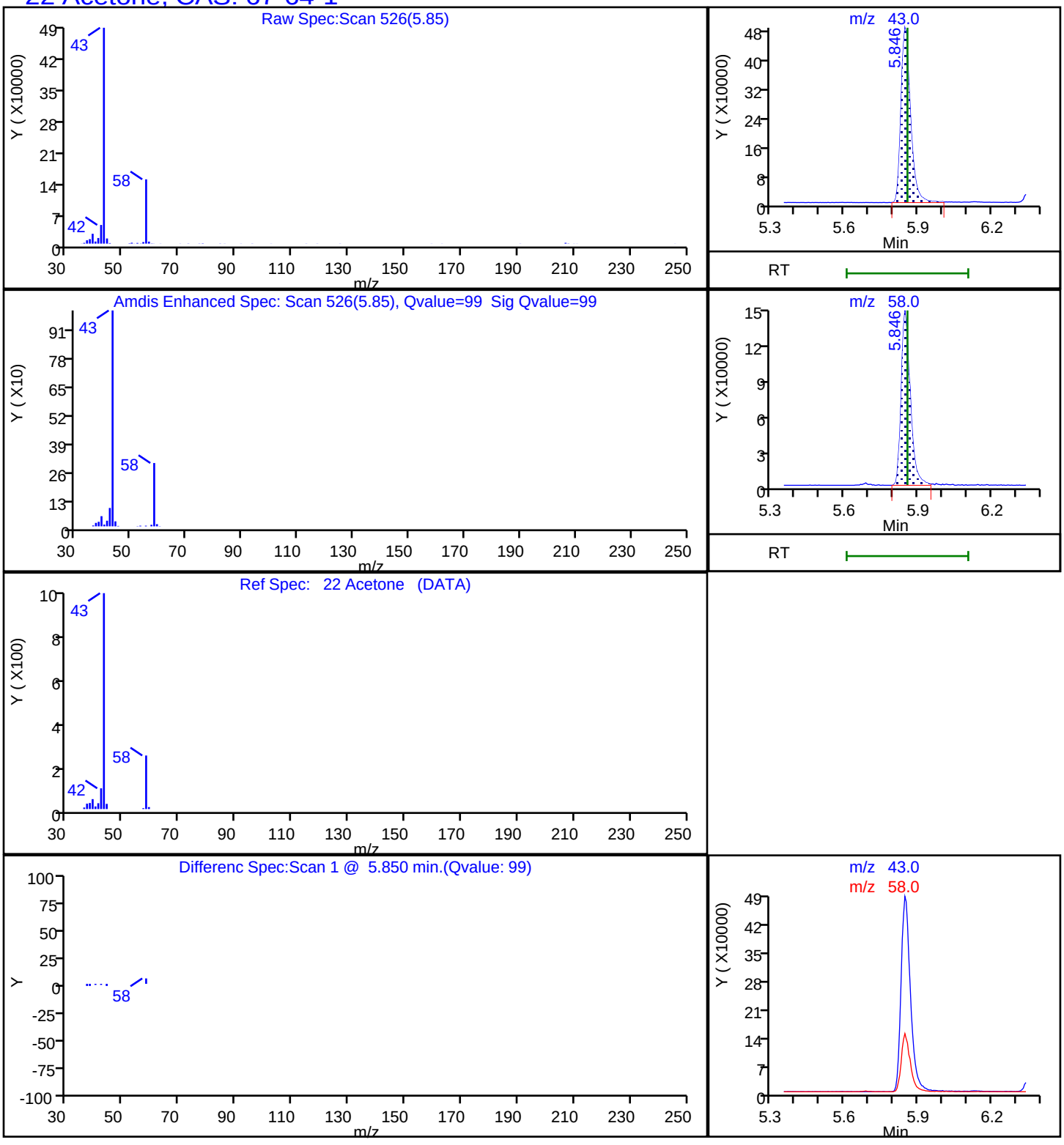
Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



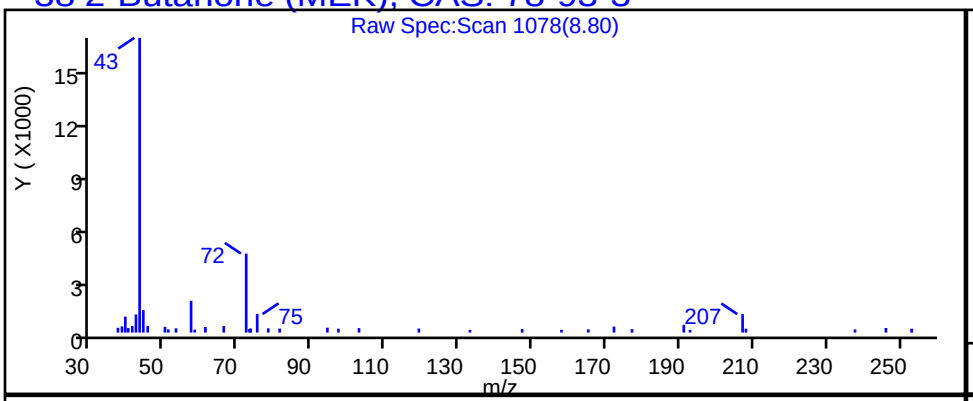
Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

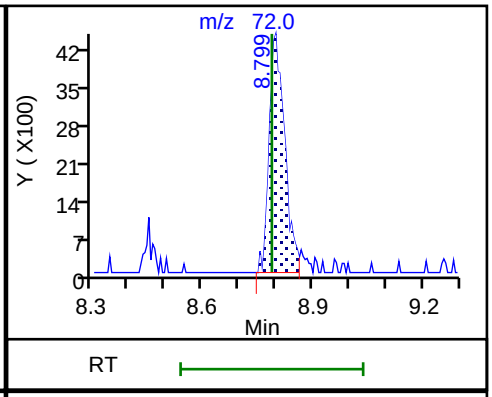
TestAmerica Burlington

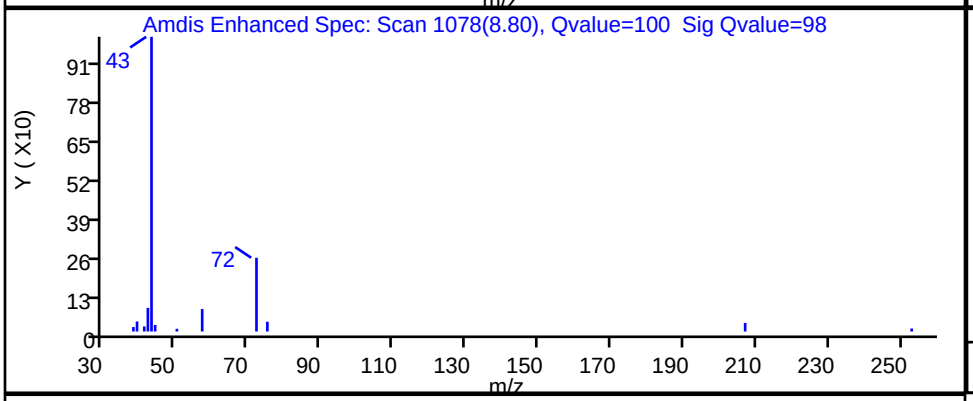
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

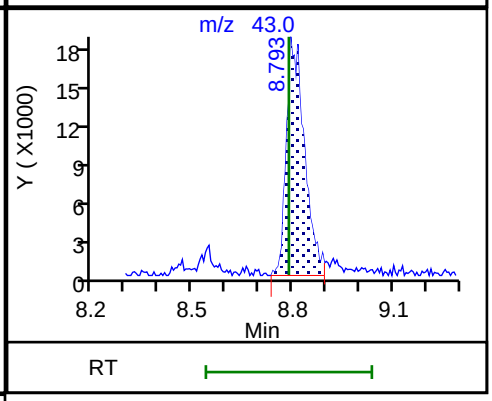
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

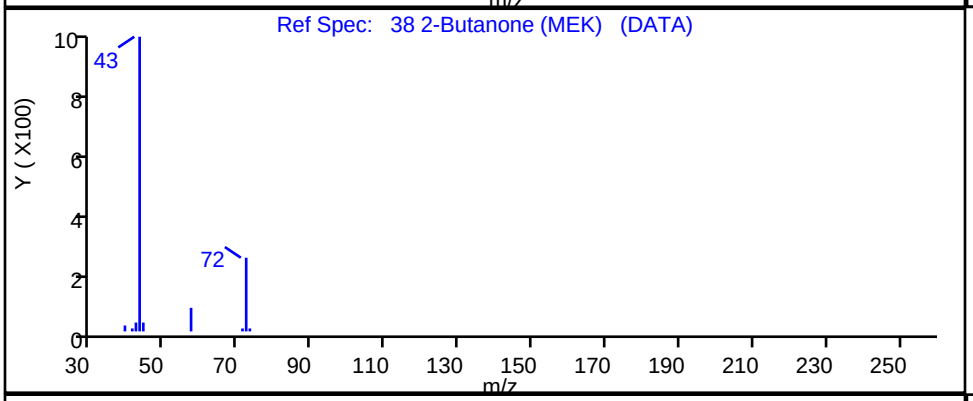
## 38 2-Butanone (MEK), CAS: 78-93-3

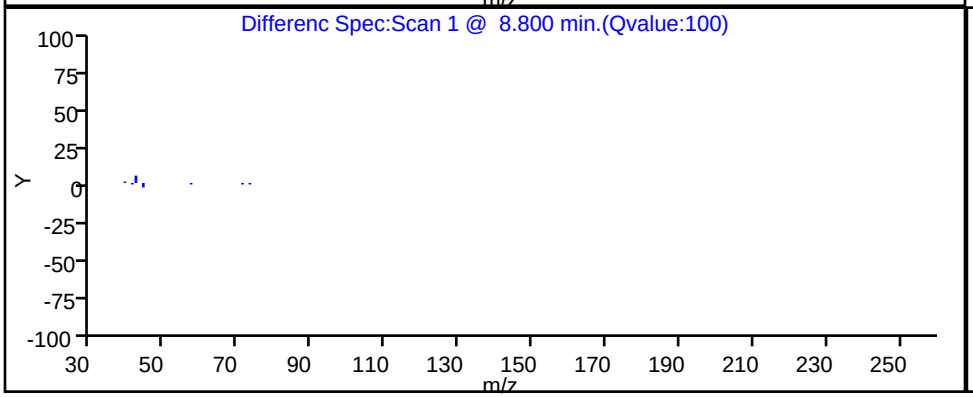


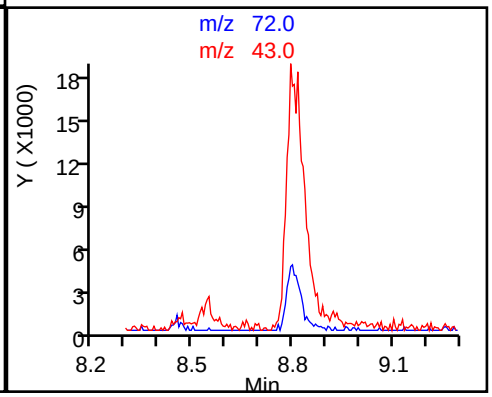



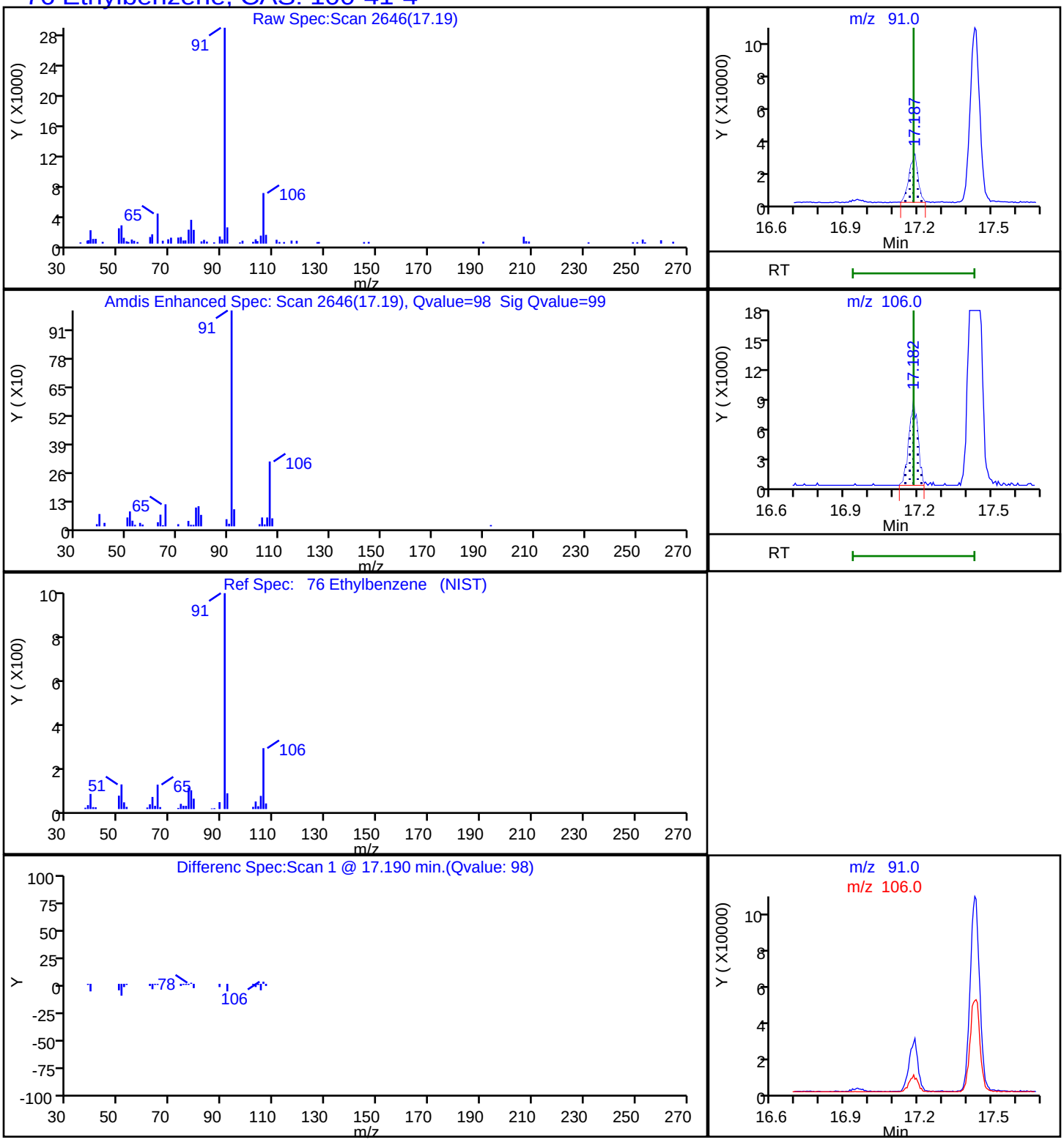
Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 76 Ethylbenzene, CAS: 100-41-4



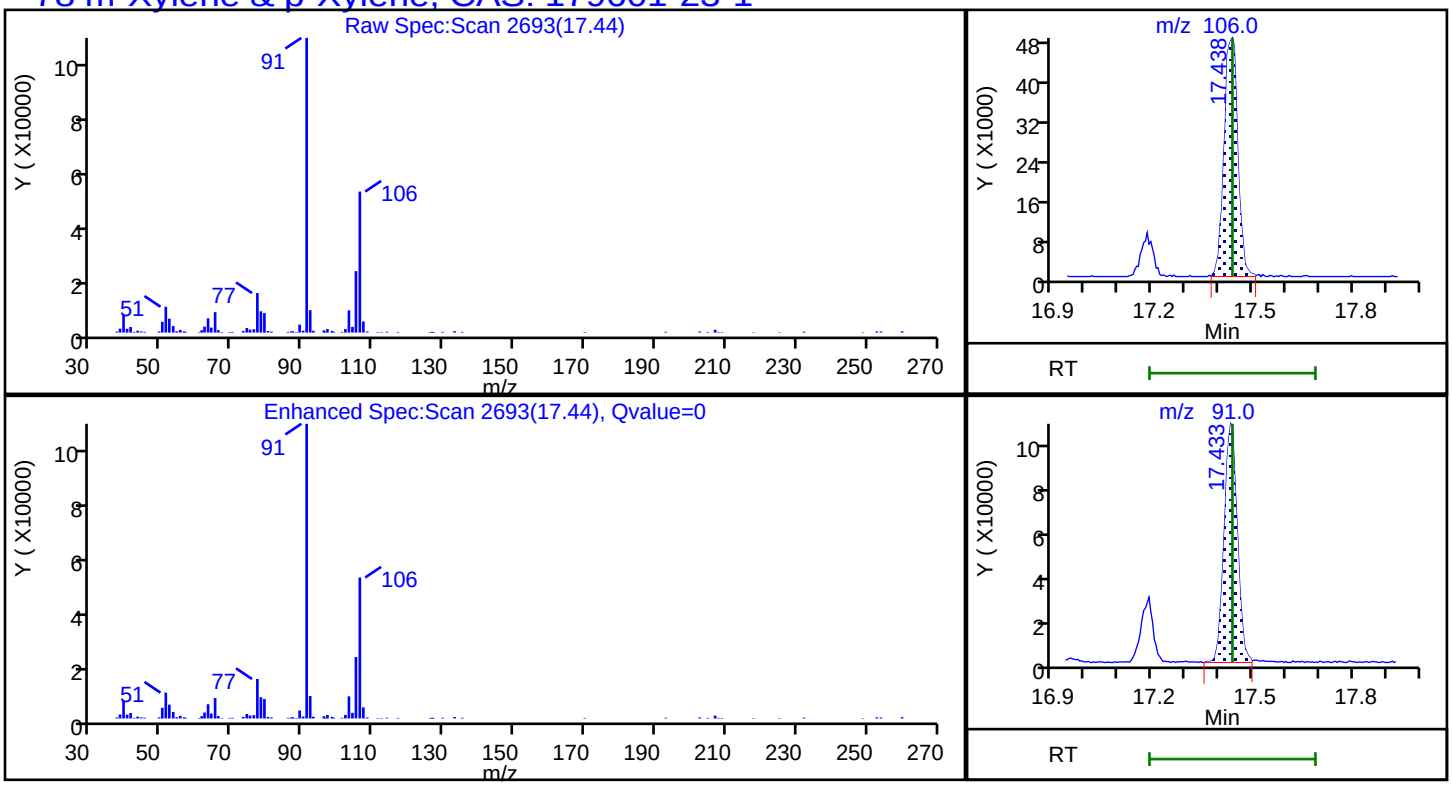
Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

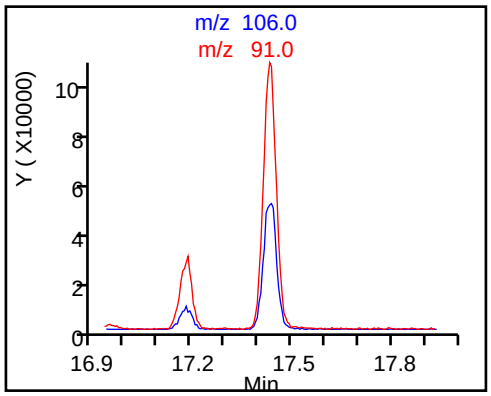
TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



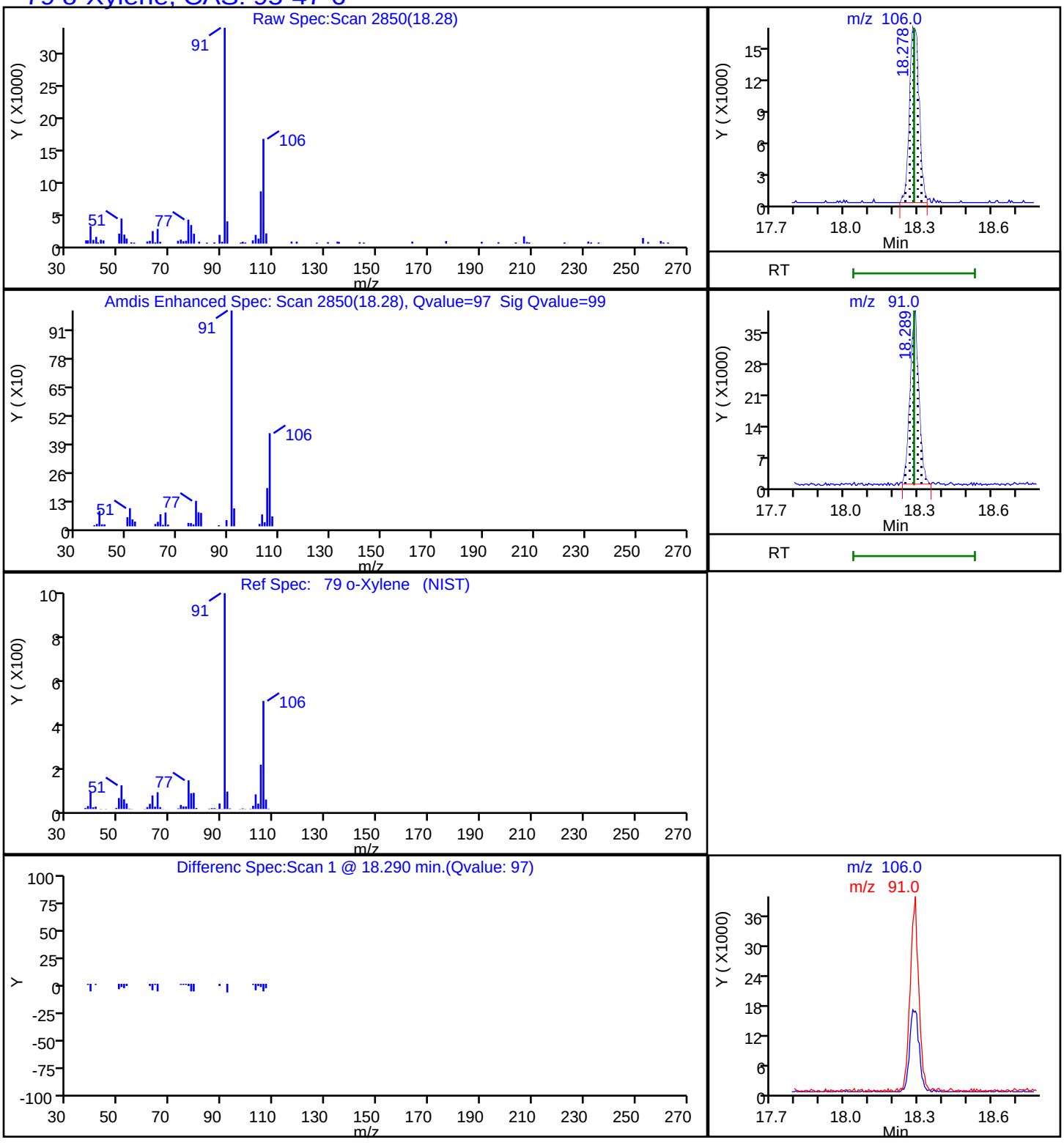
Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



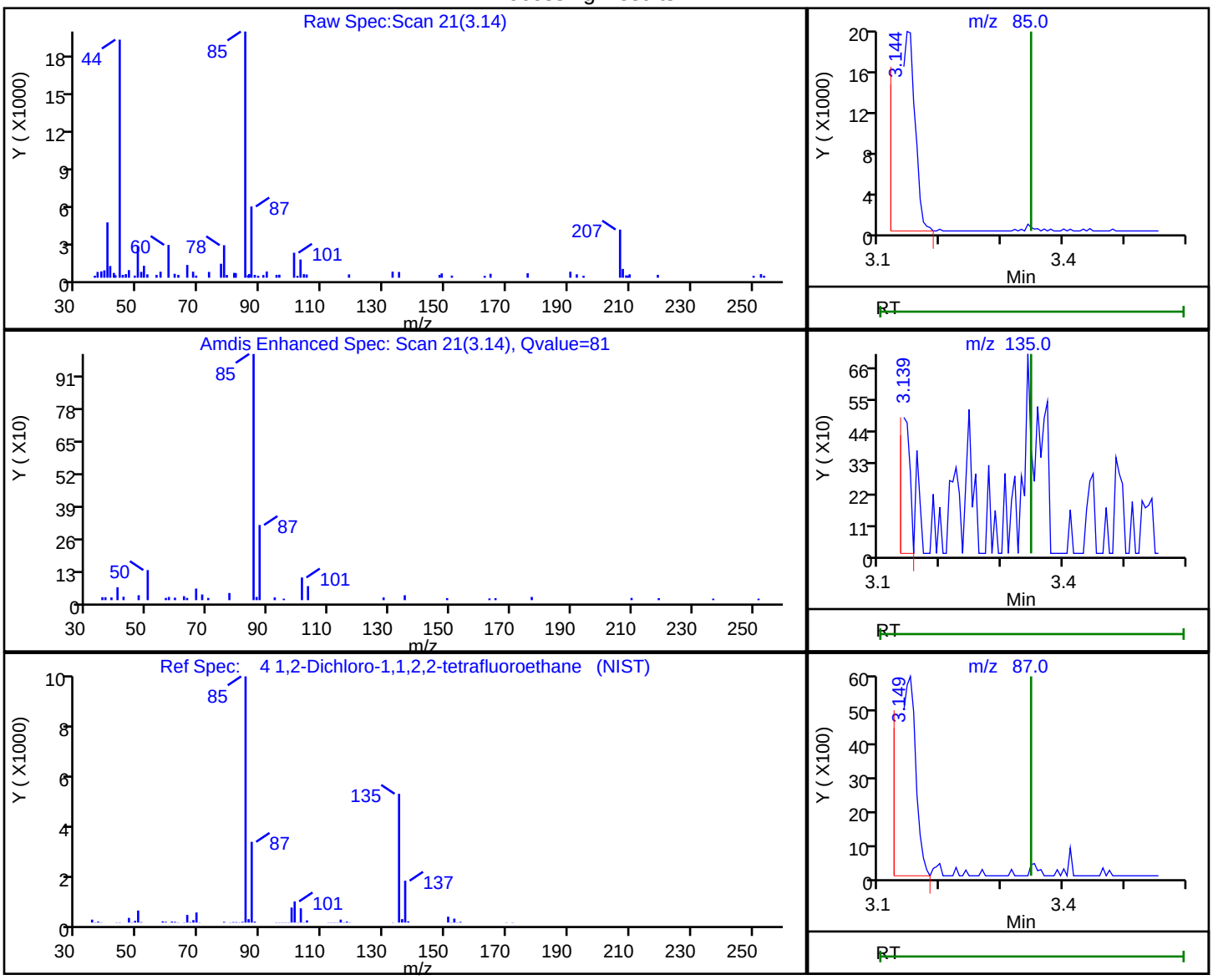
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.14 | 85.00 | 30259 | 0.193035 |
| 3.14 | 135.00 | 441 | |
| 3.15 | 87.00 | 9727 | |

Reviewer: puangmaleek, 07-Dec-2018 16:14:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

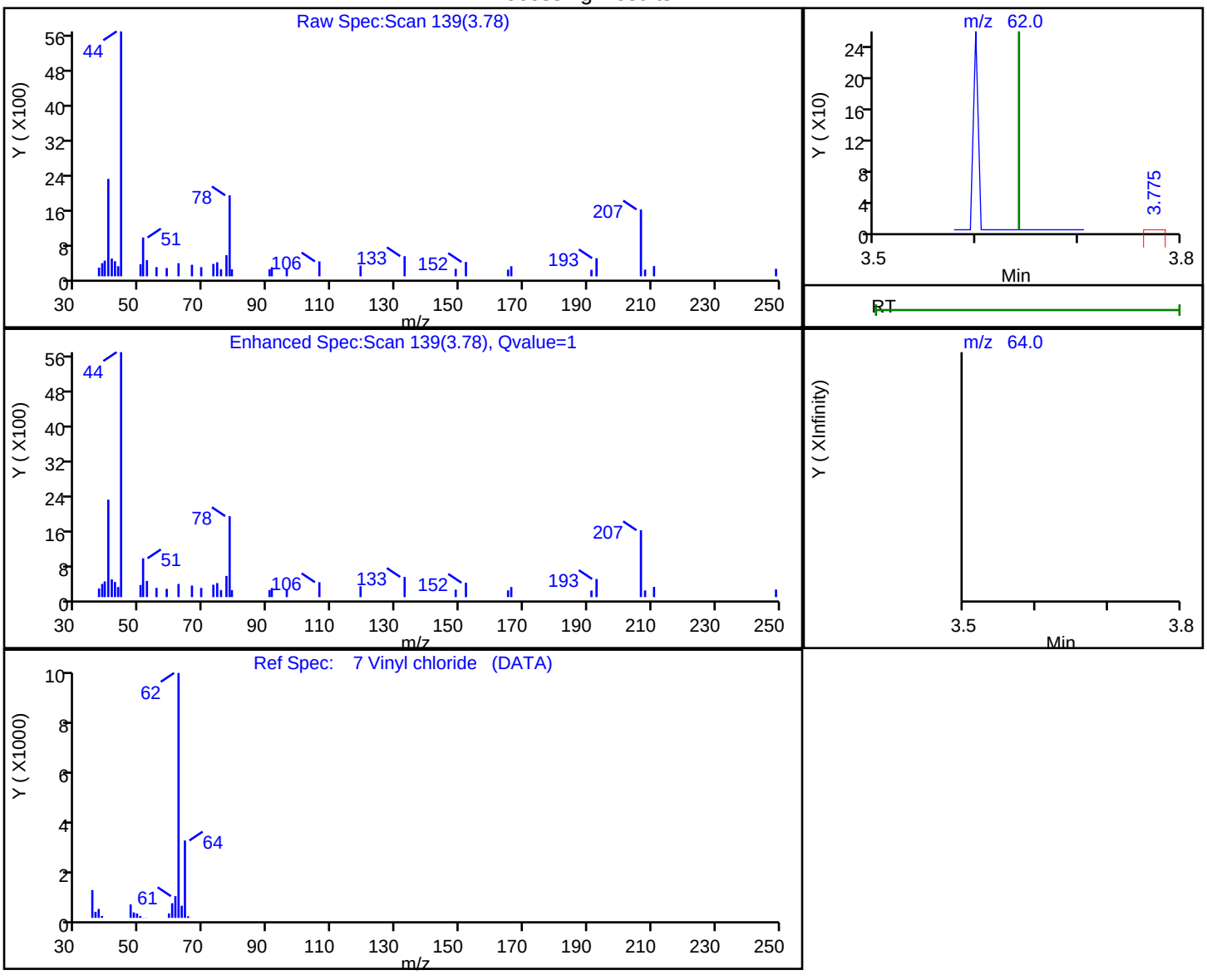
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 7 Vinyl chloride, CAS: 75-01-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.78 | 62.00 | 152 | 0.003116 |
| 3.64 | 64.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:14:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

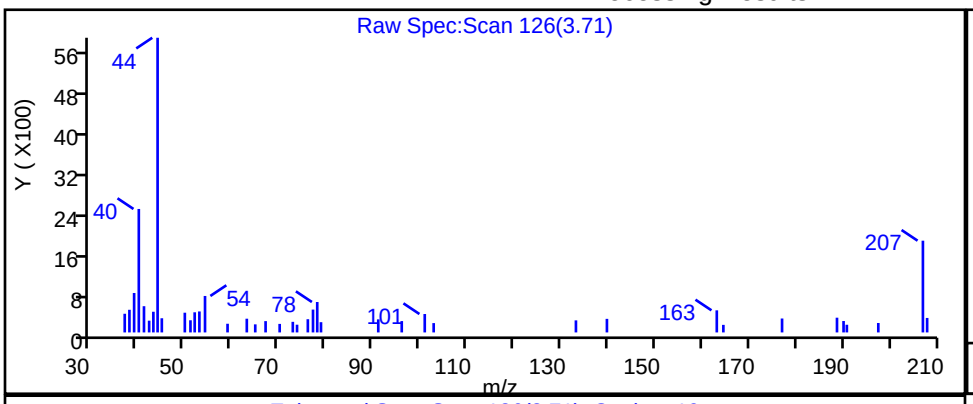
User Disabled Compound Report

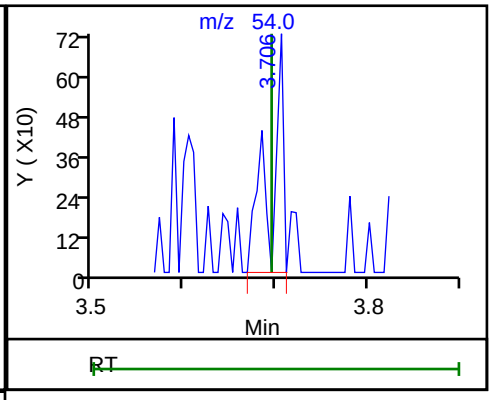
TestAmerica Burlington

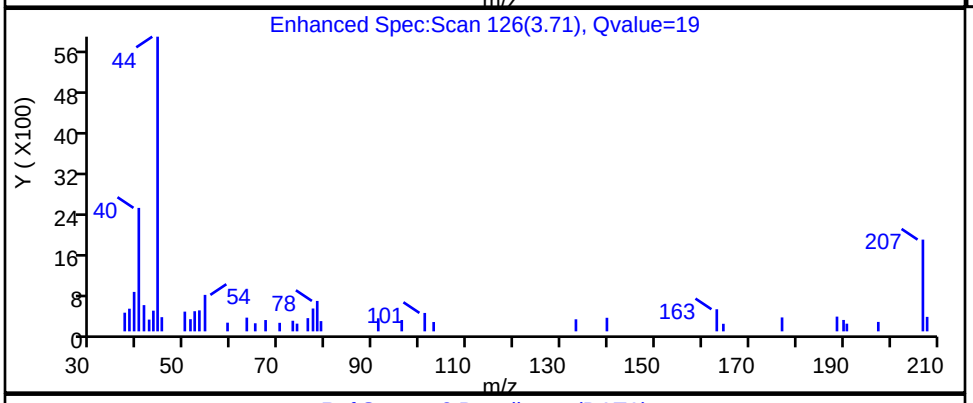
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

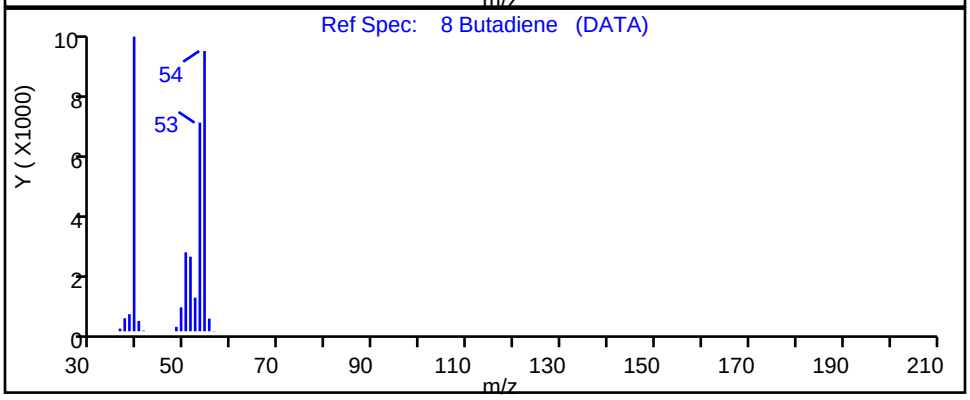
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.71 | 54.00 | 683 | 0.022502 |

Reviewer: puangmaleek, 07-Dec-2018 16:14:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

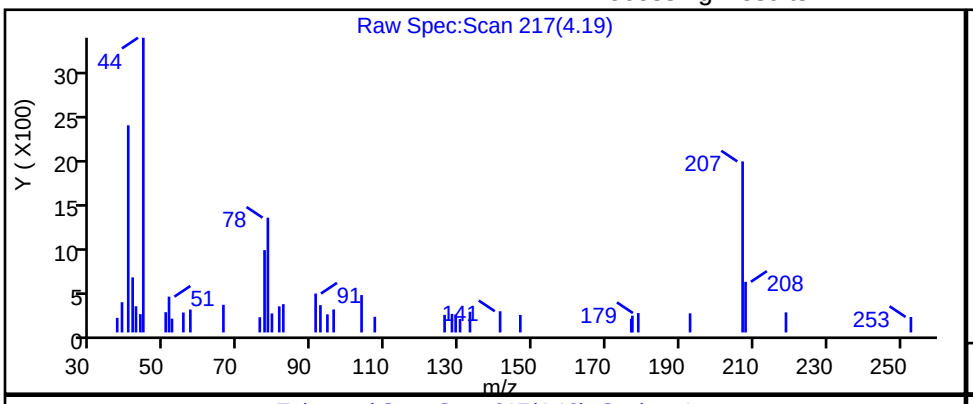
User Disabled Compound Report

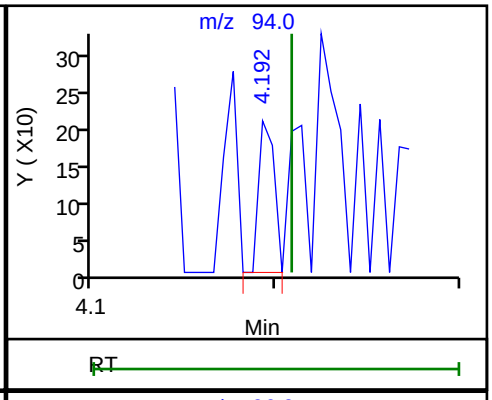
TestAmerica Burlington

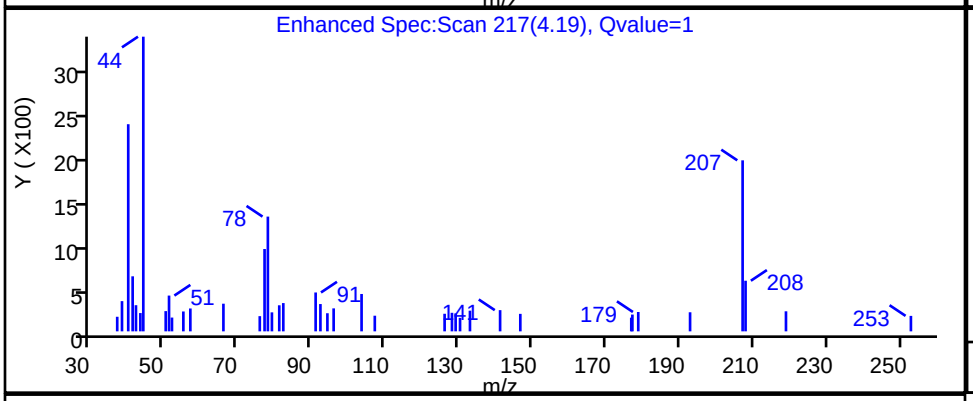
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

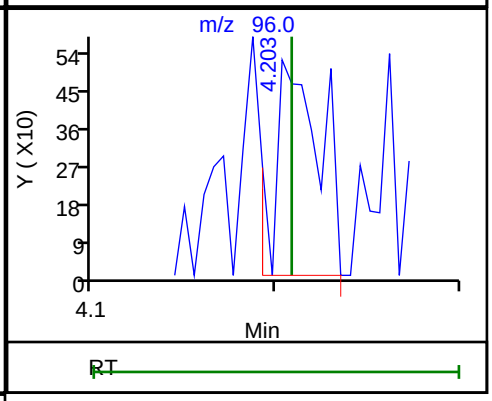
## 10 Bromomethane, CAS: 74-83-9

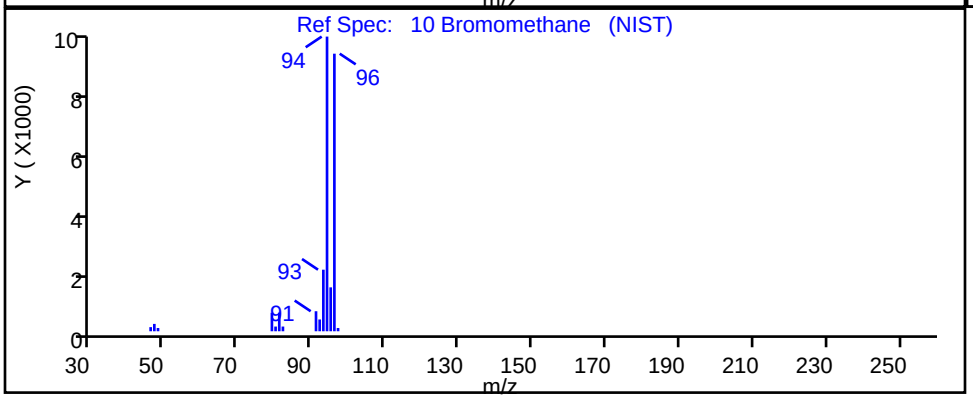
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.19 | 94.00 | 121 | 0.002148 |
| 4.20 | 96.00 | 885 | |

Reviewer: puangmaleek, 07-Dec-2018 16:14:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

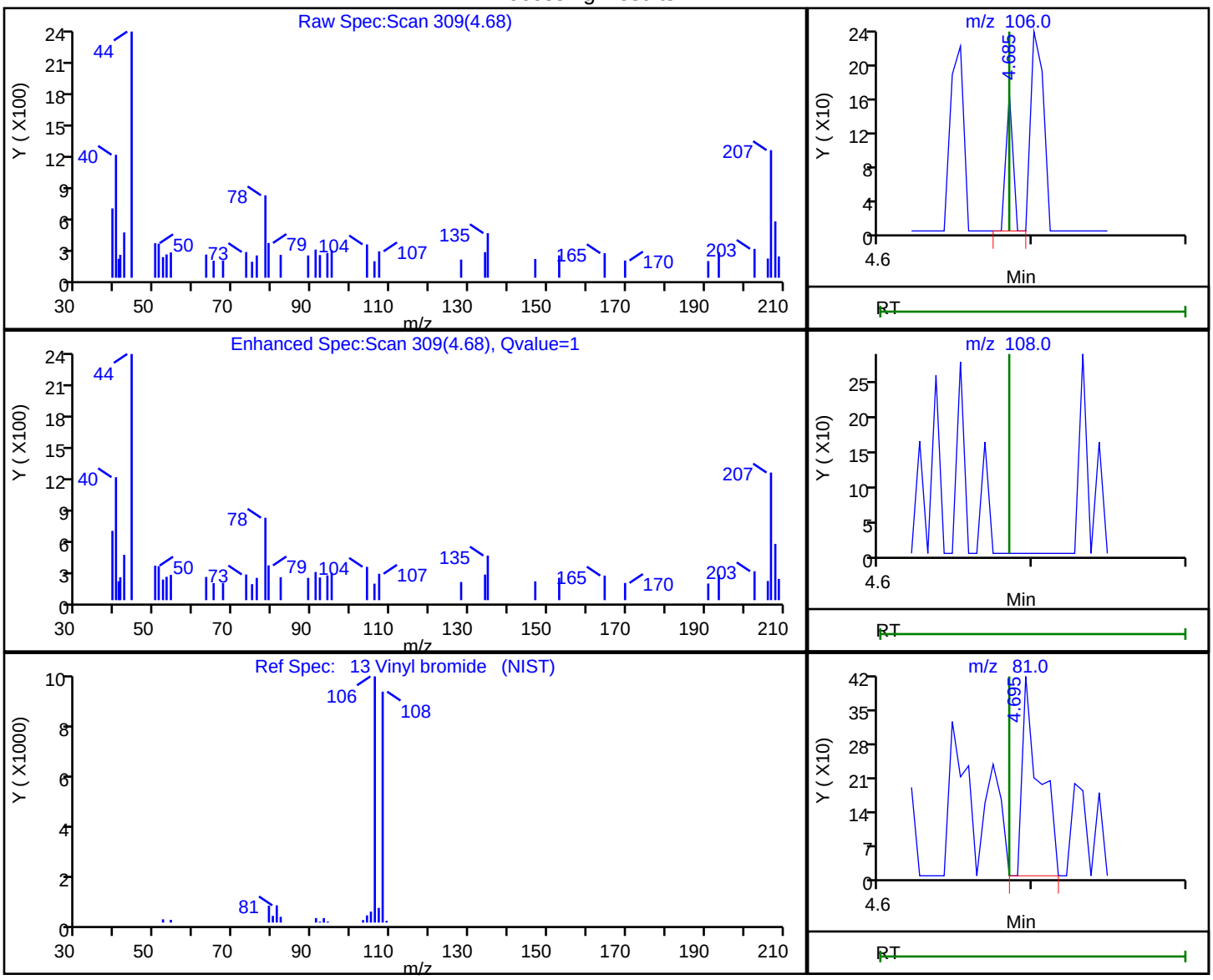
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.68 | 106.00 | 51 | 0.000916 |
| 4.68 | 108.00 | 0 | |
| 4.70 | 81.00 | 323 | |

Reviewer: puangmaleek, 07-Dec-2018 16:14:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

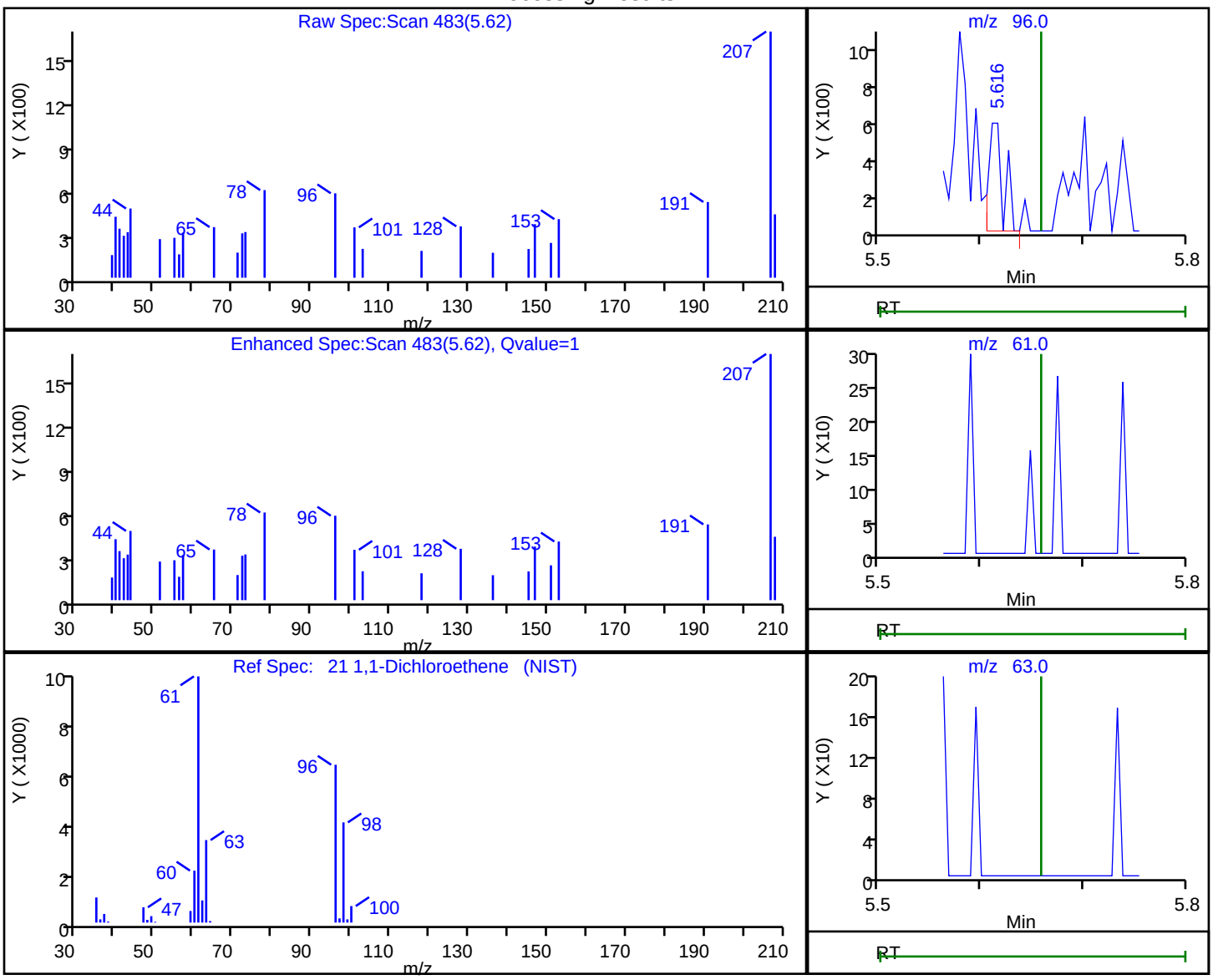
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.62 | 96.00 | 577 | 0.011305 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:14:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 16:35:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

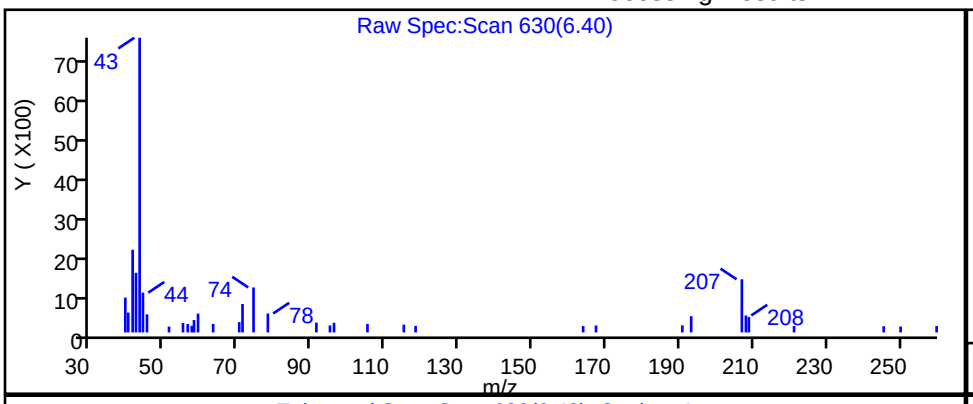
User Disabled Compound Report

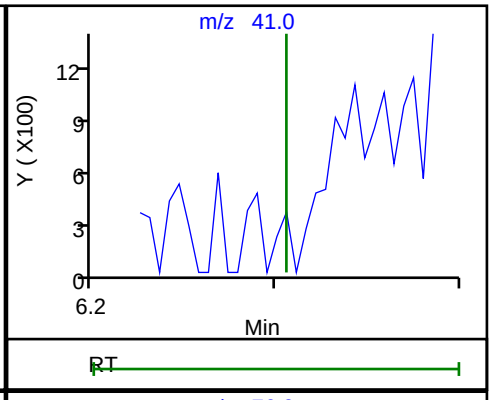
TestAmerica Burlington

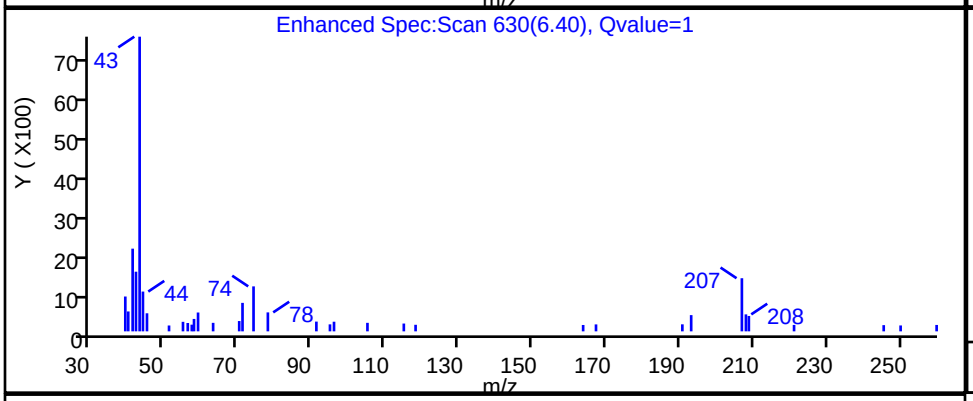
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

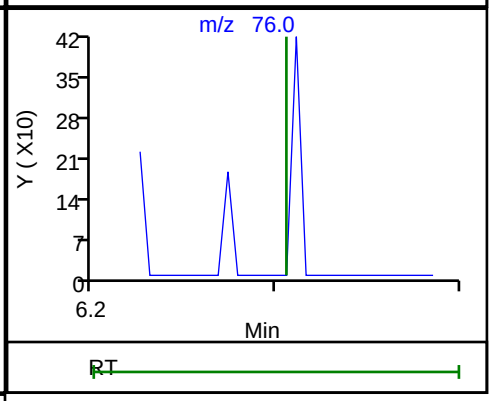
## 25 3-Chloro-1-propene, CAS: 107-05-1

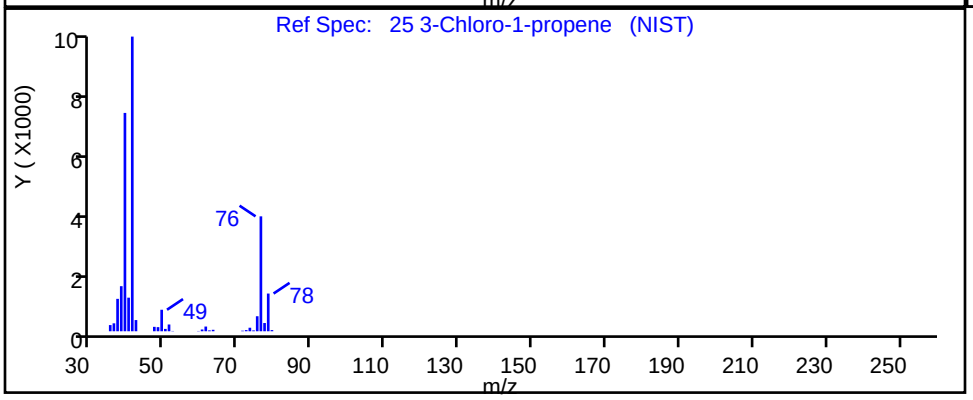
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.40 | 41.00 | 2279 | 0.060019 |
| 6.30 | 76.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:14:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

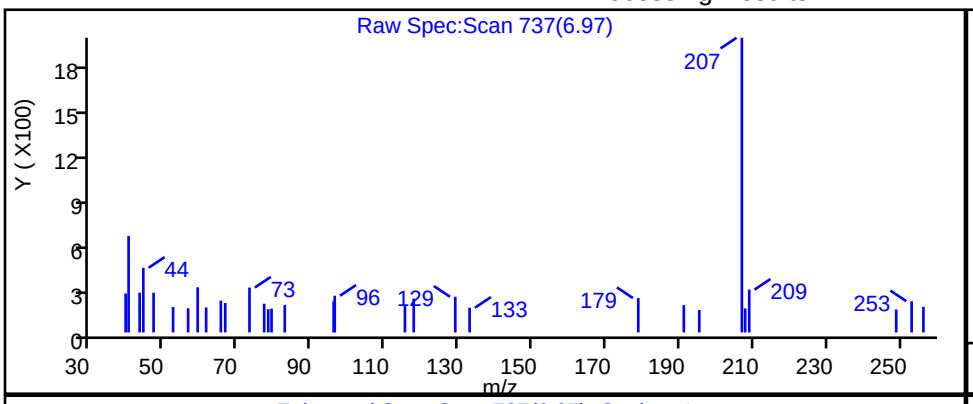
User Disabled Compound Report

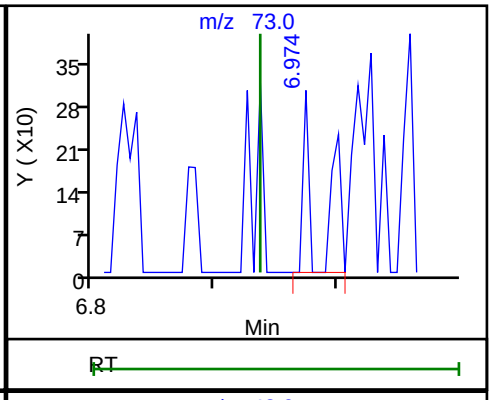
TestAmerica Burlington

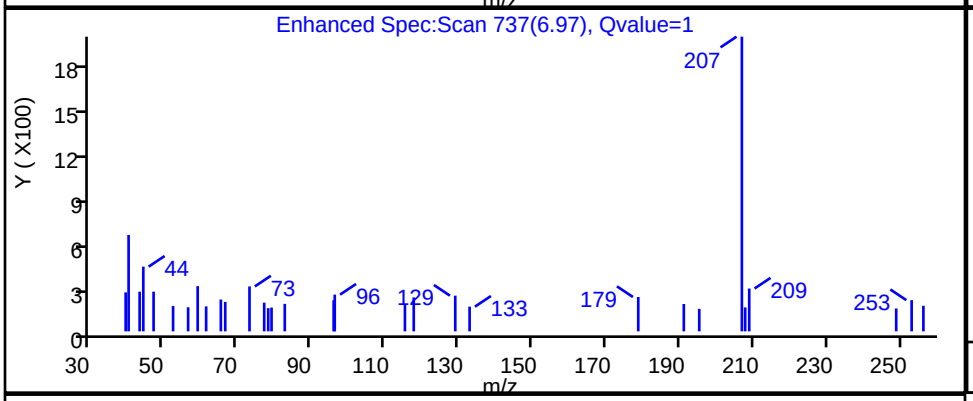
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

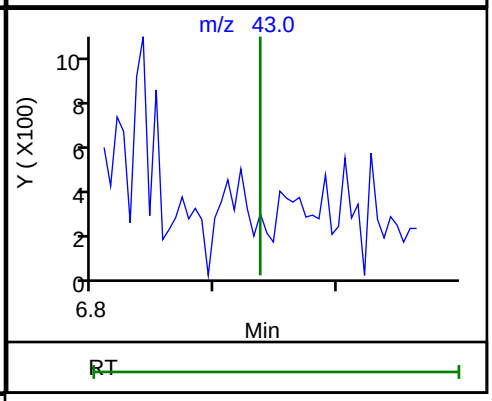
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

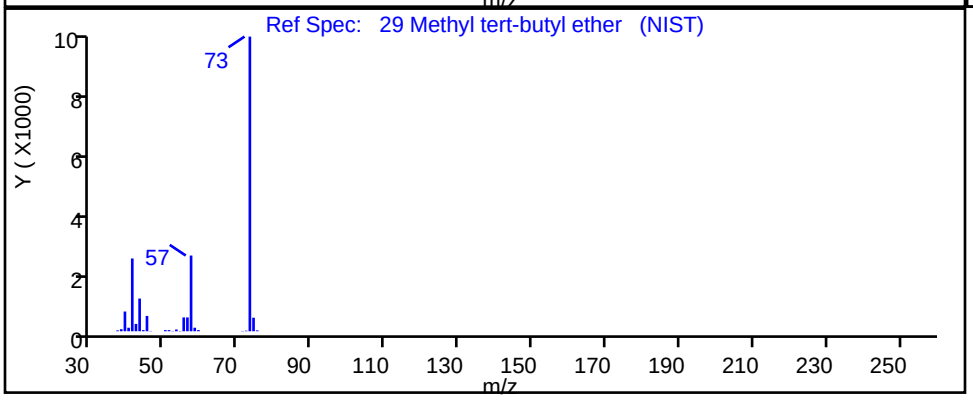
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.97 | 73.00 | 225 | 0.002268 |
| 6.93 | 43.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:15:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

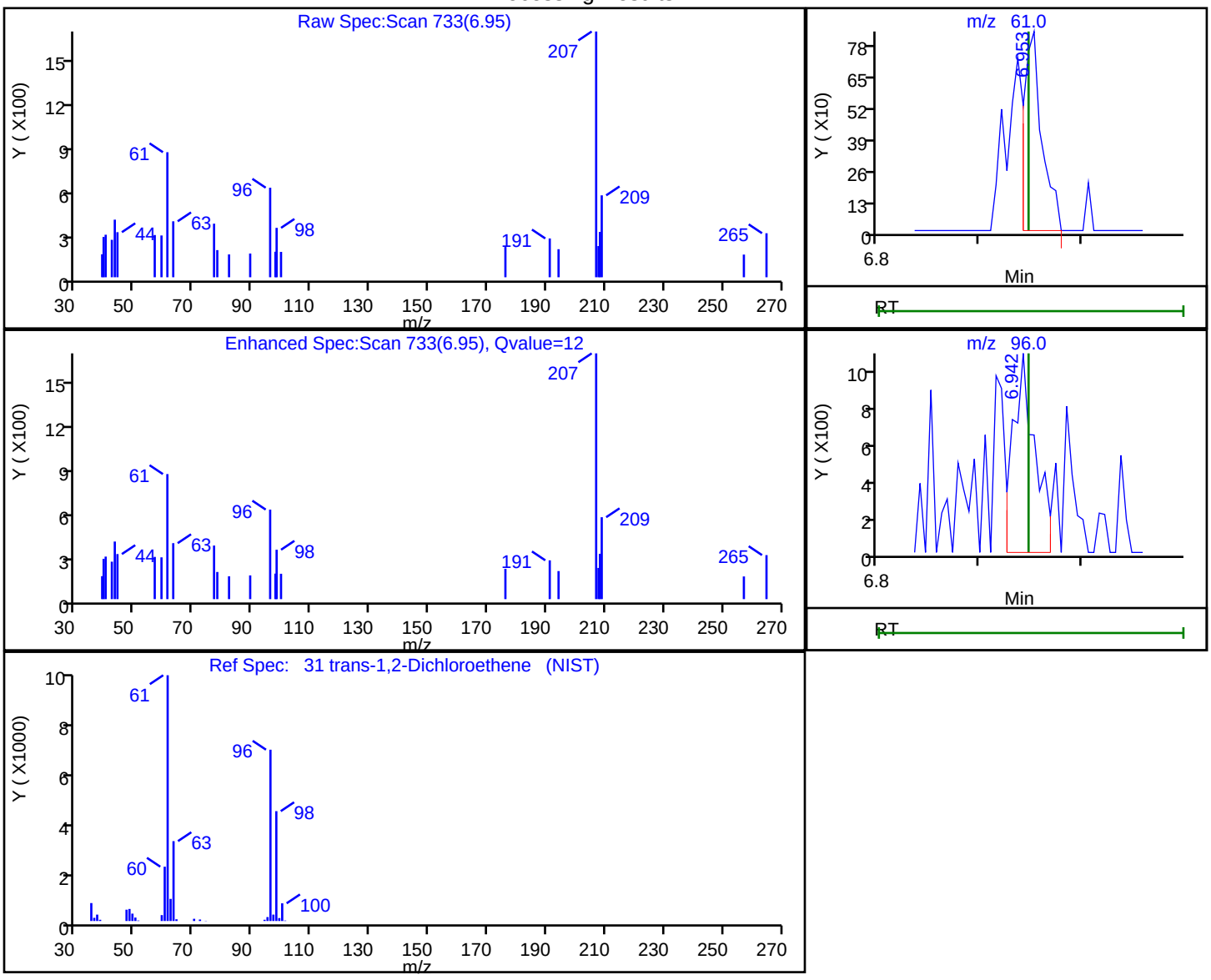
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.95 | 61.00 | 1022 | 0.016527 |
| 6.94 | 96.00 | 1532 | |

Reviewer: puangmaleek, 07-Dec-2018 16:15:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

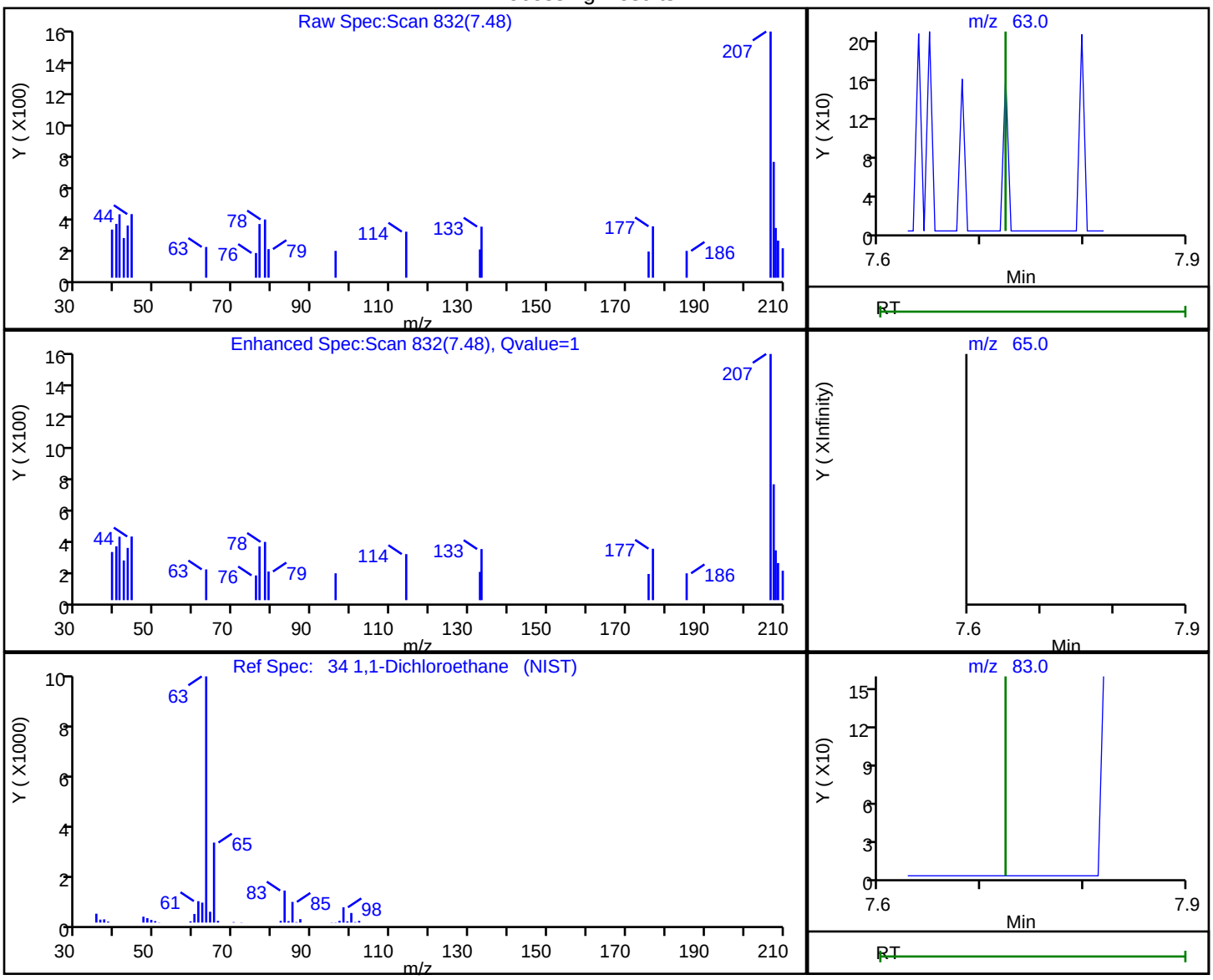
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.48 | 63.00 | 109 | 0.001366 |
| 7.72 | 65.00 | 0 | |
| 7.72 | 83.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:15:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

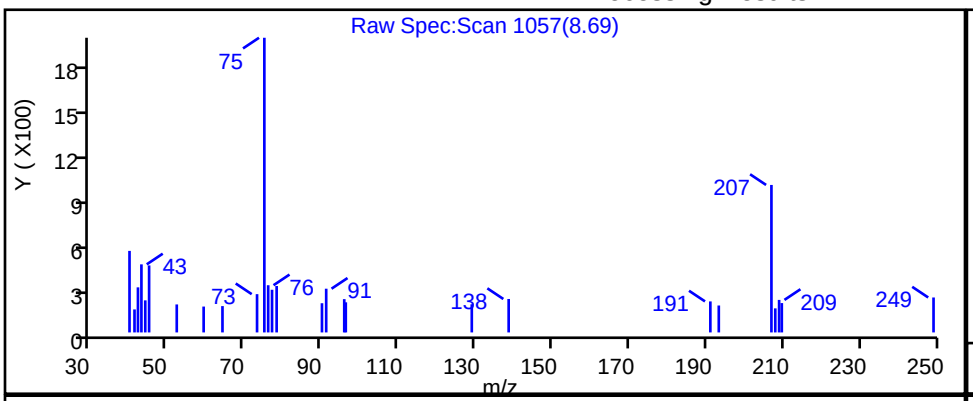
User Disabled Compound Report

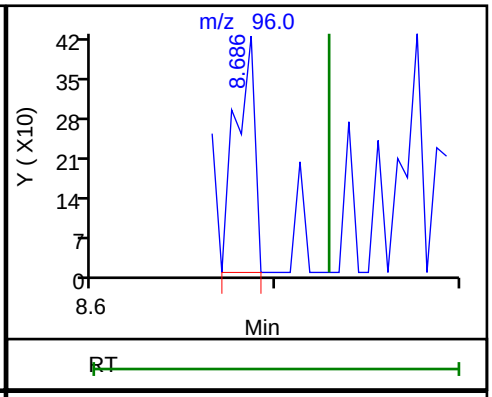
TestAmerica Burlington

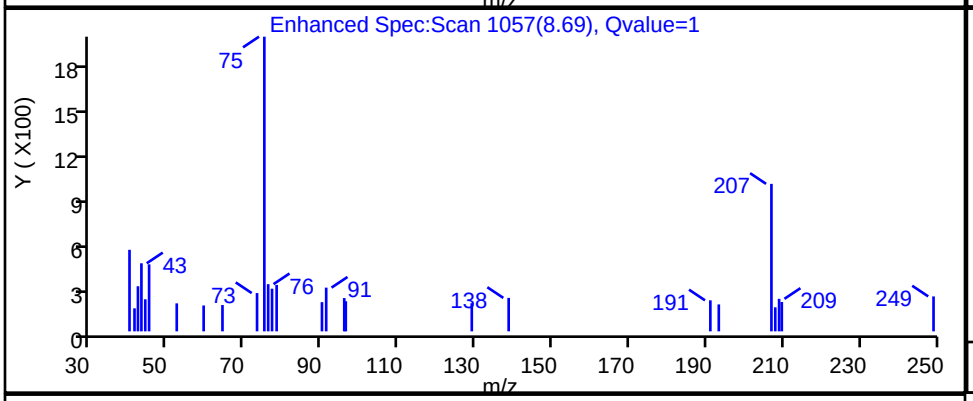
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

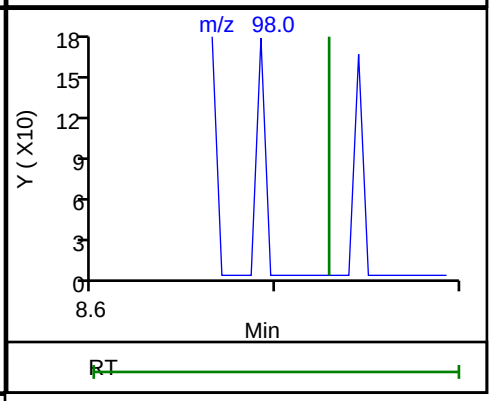
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

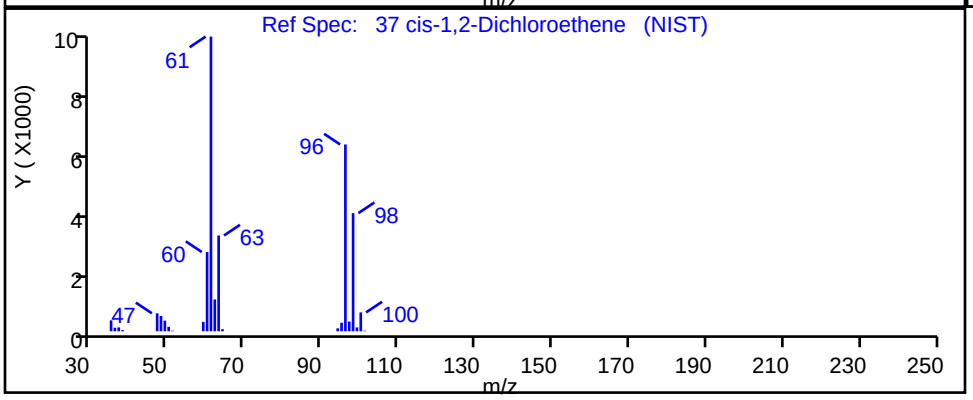
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.69 | 96.00 | 306 | 0.006329 |
| 8.72 | 98.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:15:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

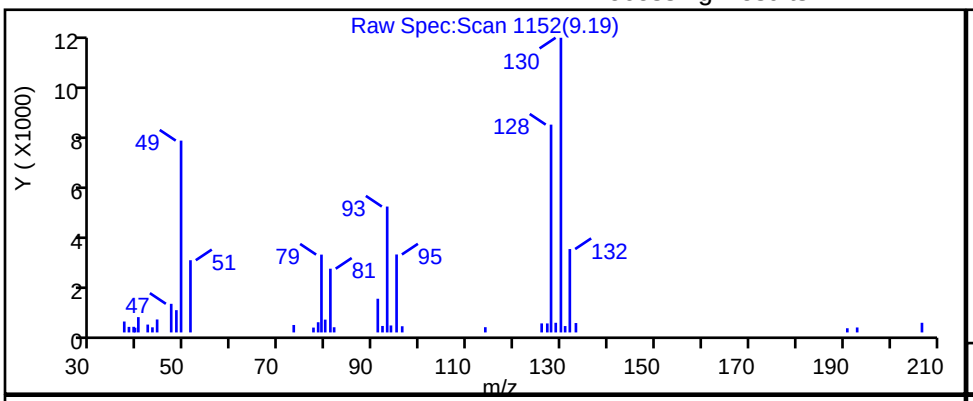
User Disabled Compound Report

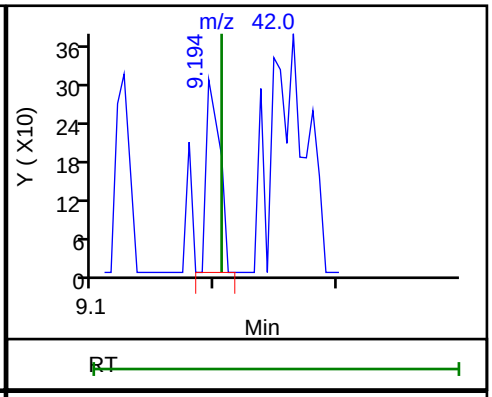
TestAmerica Burlington

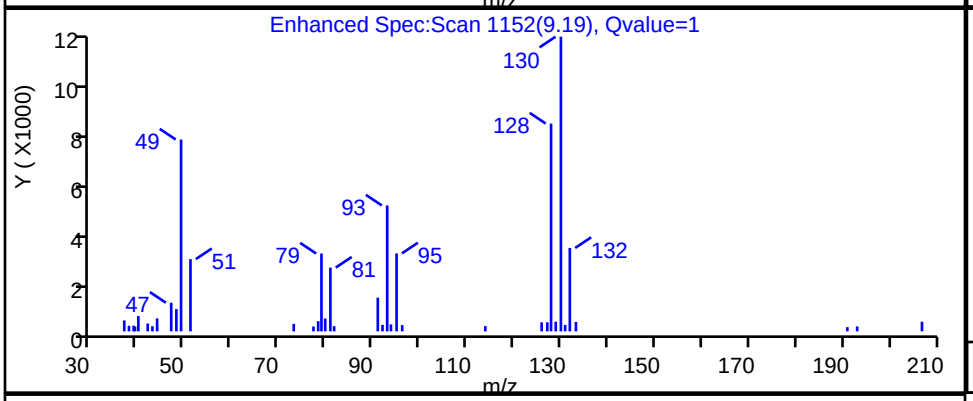
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

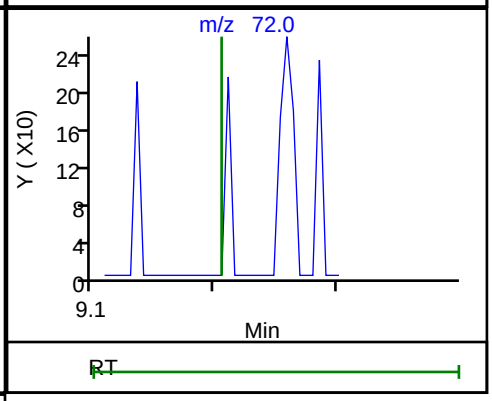
## 41 Tetrahydrofuran, CAS: 109-99-9

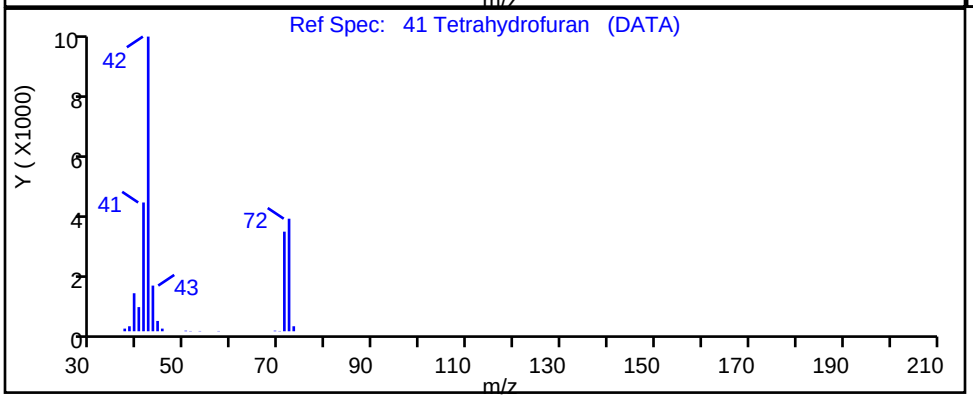
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.19 | 42.00 | 236 | 0.008611 |
| 9.21 | 72.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:15:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

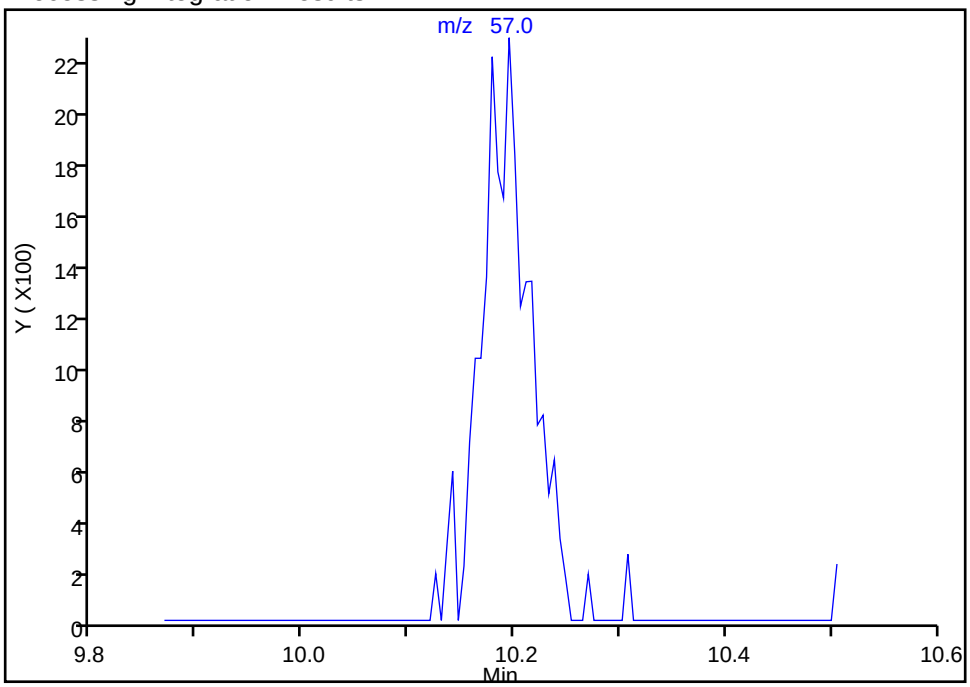
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1

Signal: 1

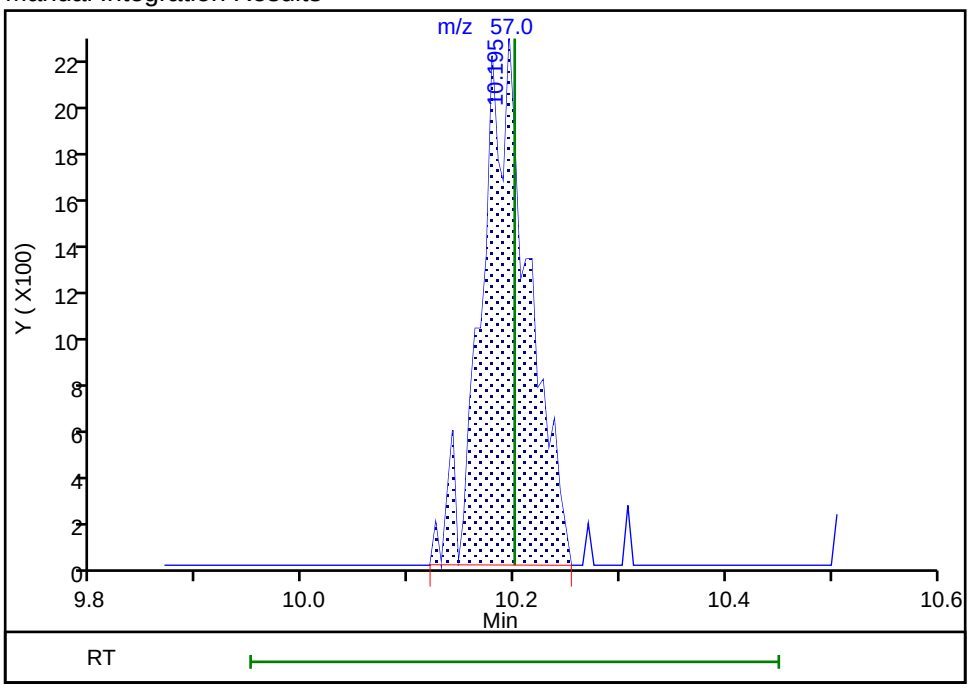
Not Detected
Expected RT: 10.20

Processing Integration Results




Manual Integration Results

RT: 10.19
Area: 6851
Amount: 0.037560
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 16:15:38
Audit Action: Manually Integrated Audit Reason: Assign Peak

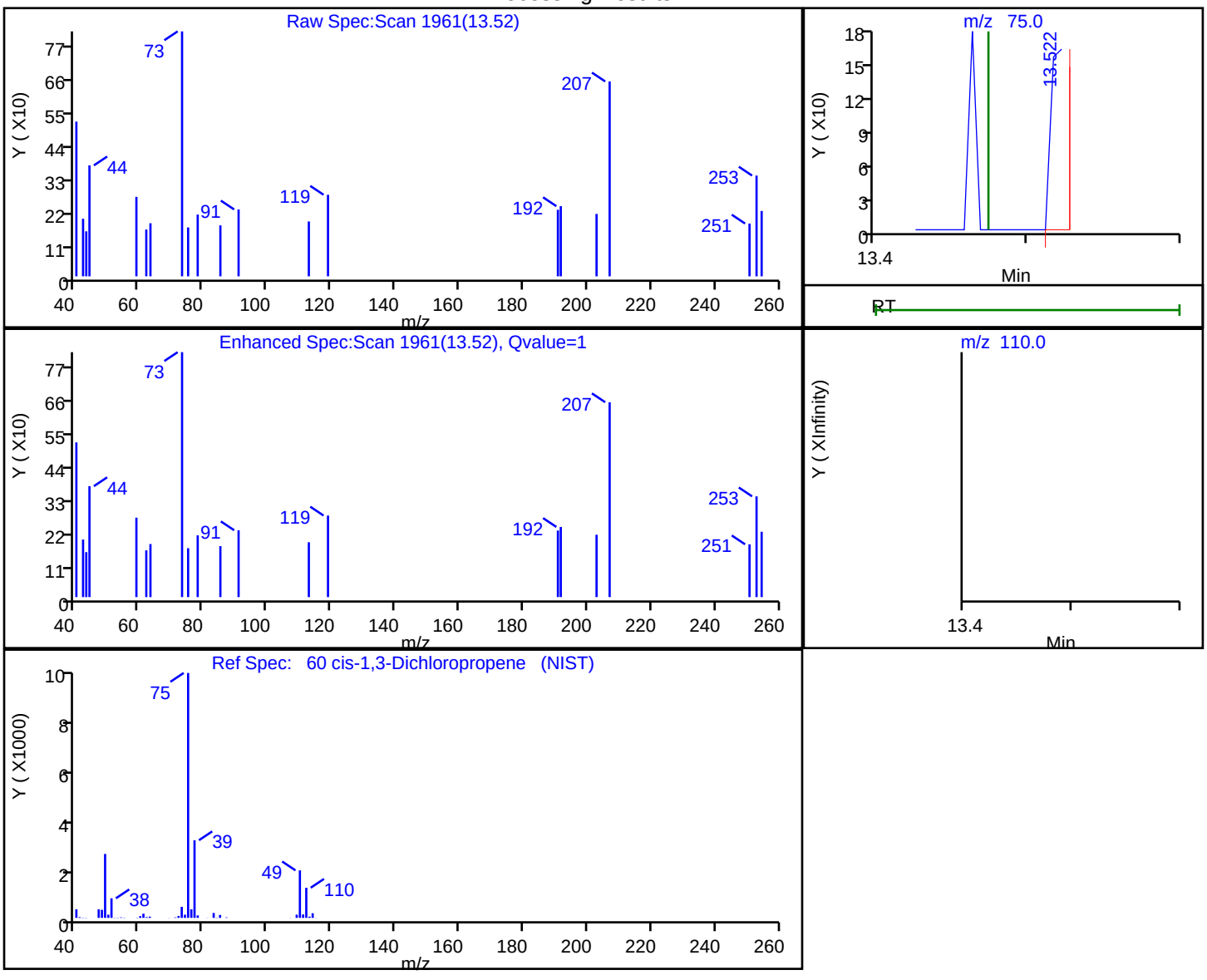
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.52 | 75.00 | 102 | 0.001267 |
| 13.47 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:34:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

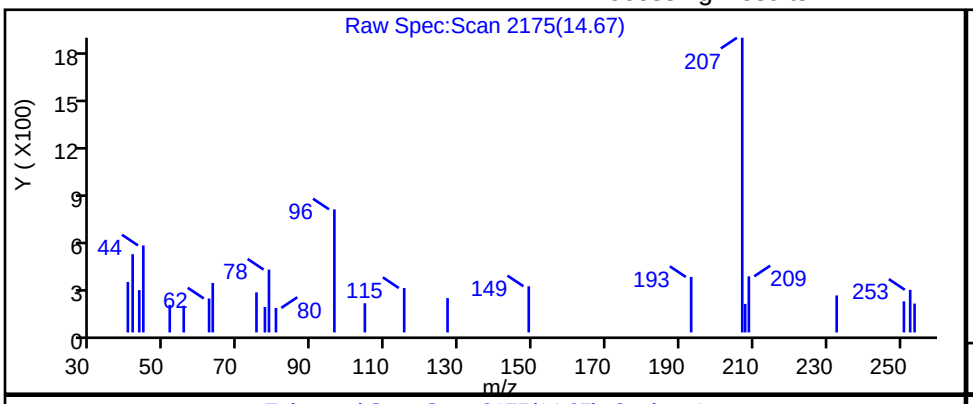
User Disabled Compound Report

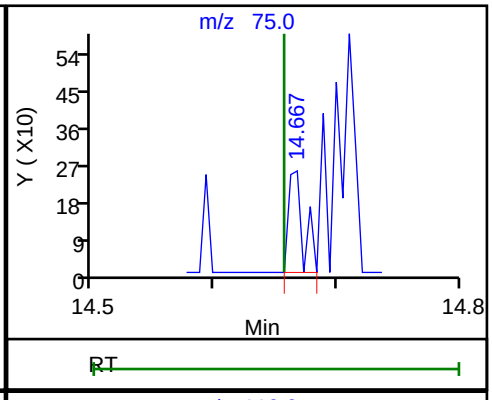
TestAmerica Burlington

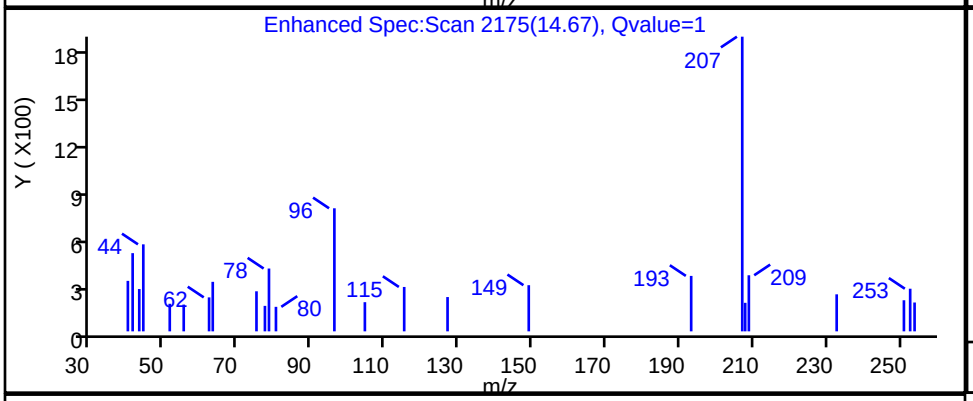
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

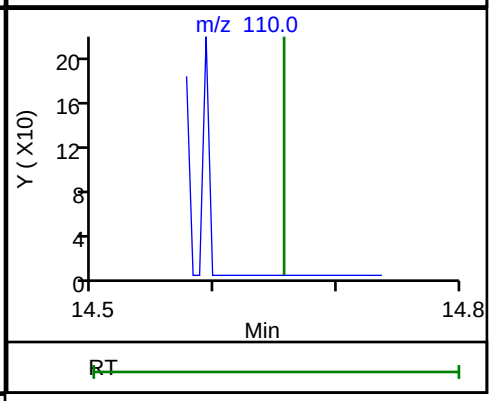
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

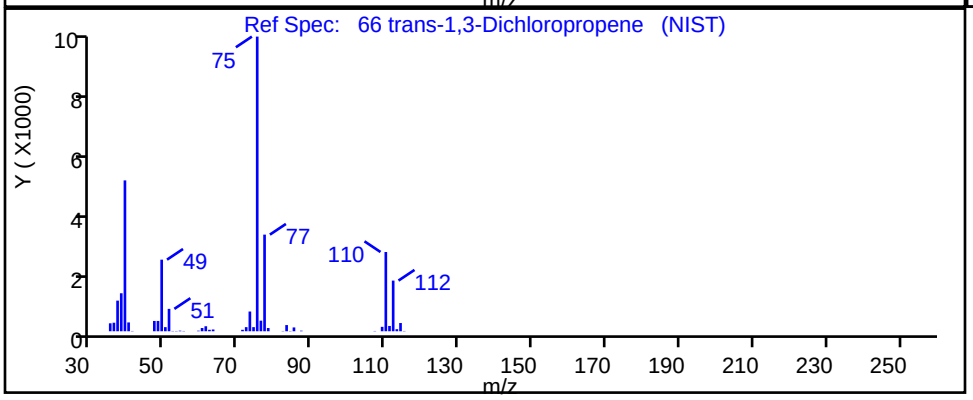
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.67 | 75.00 | 209 | 0.002640 |
| 14.65 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:34:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

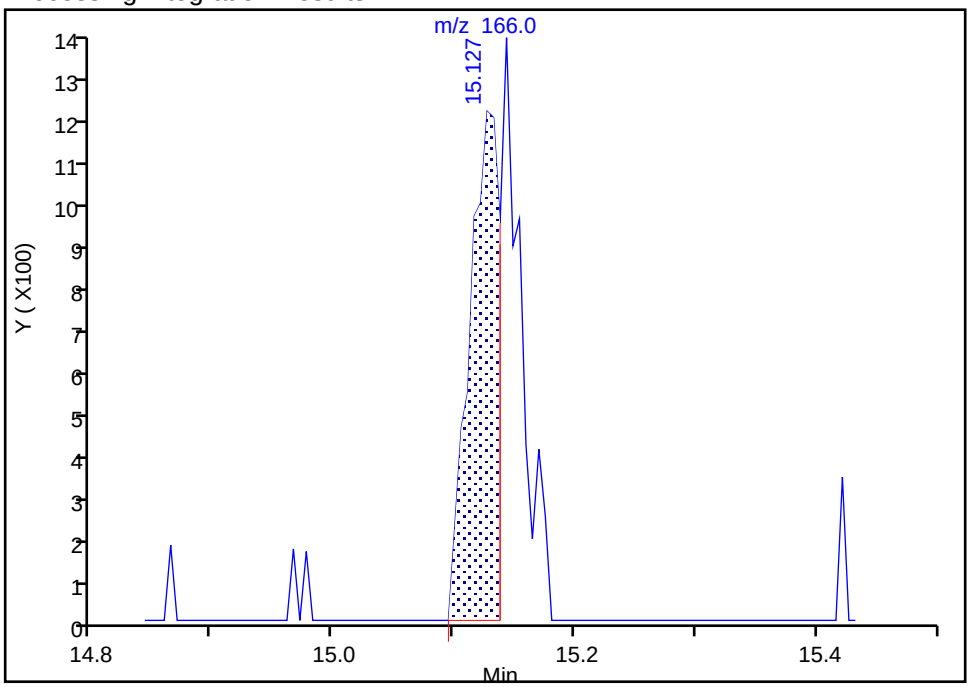
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

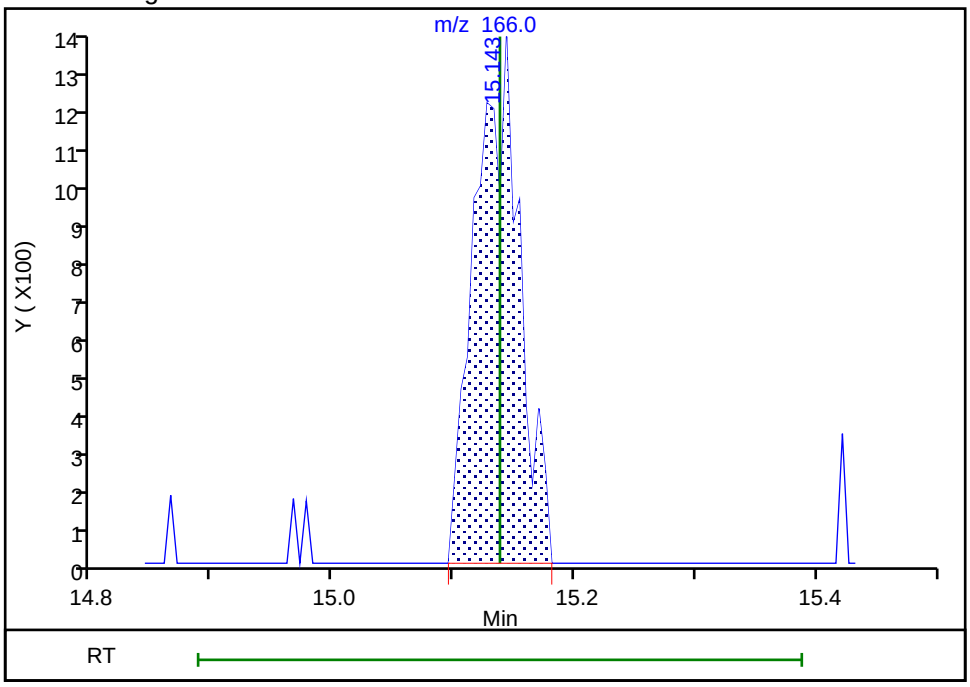
Processing Integration Results

RT: 15.13
Area: 2098
Amount: 0.017904
Amount Units: ppb v/v




Manual Integration Results

RT: 15.14
Area: 3543
Amount: 0.030235
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 16:35:04

Audit Action: Manually Integrated Audit Reason: Assign Peak

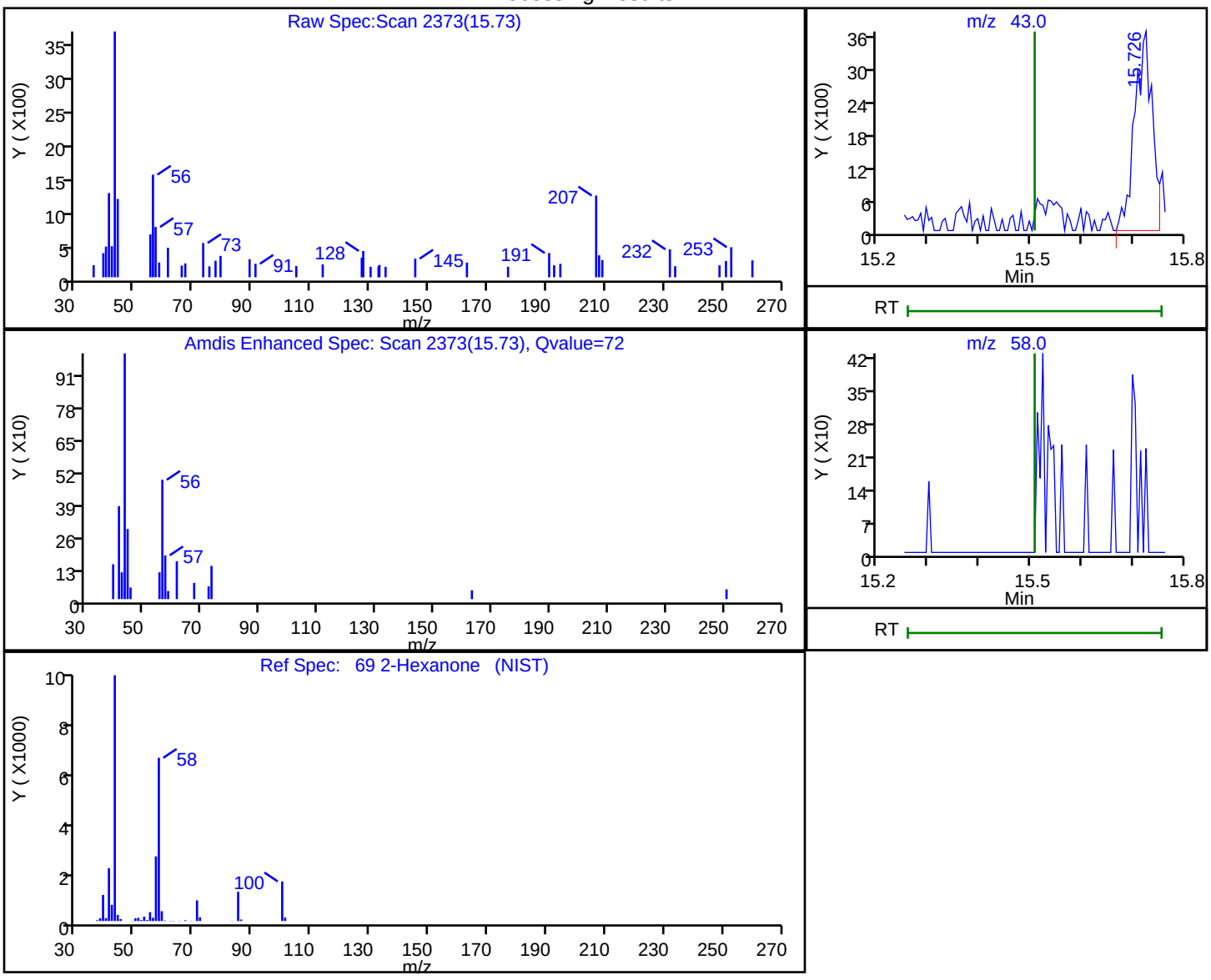
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 69 2-Hexanone, CAS: 591-78-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.73 | 43.00 | 8817 | 0.102505 |
| 15.51 | 58.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

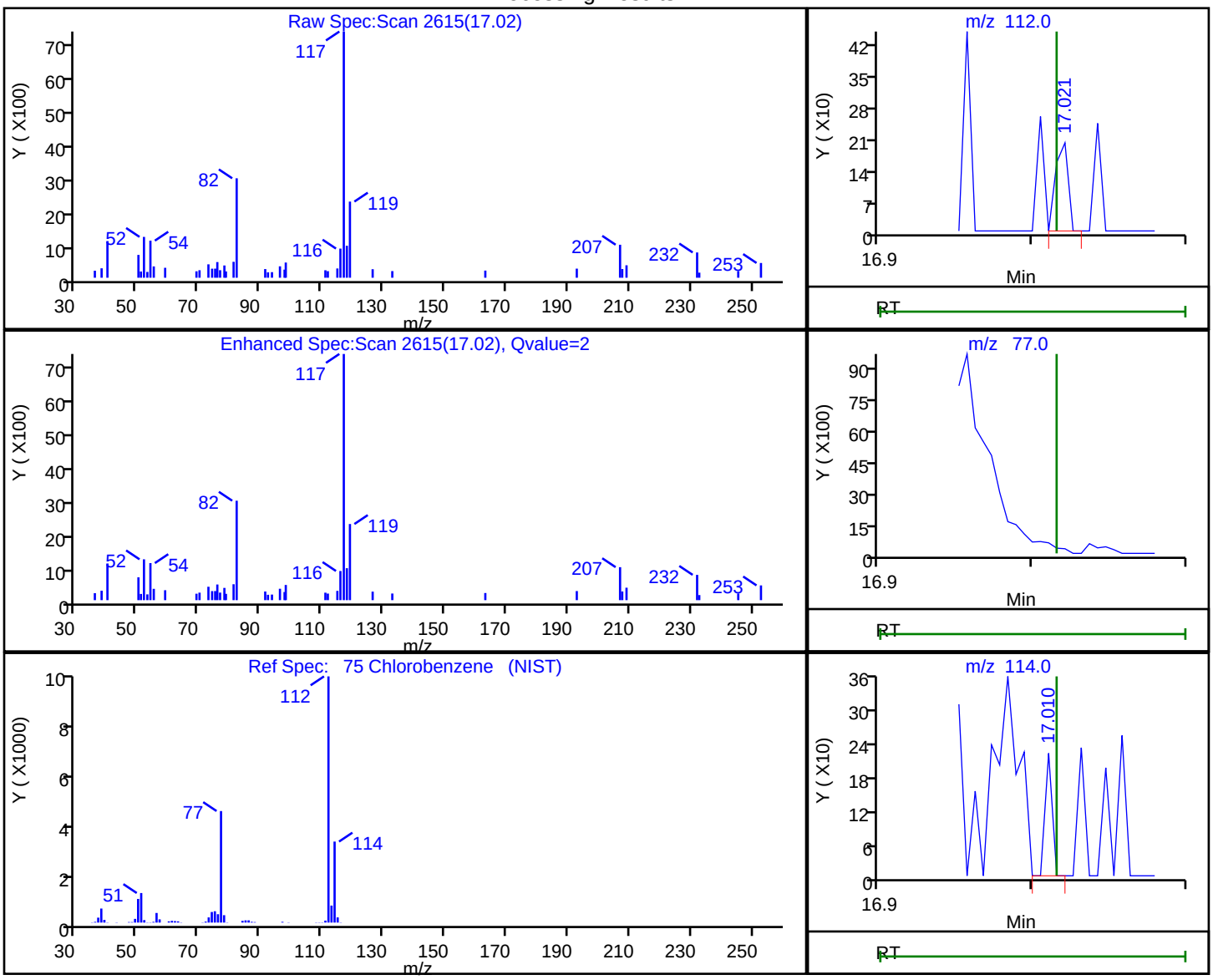
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.02 | 112.00 | 111 | 0.000737 |
| 17.02 | 77.00 | 0 | |
| 17.01 | 114.00 | 71 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

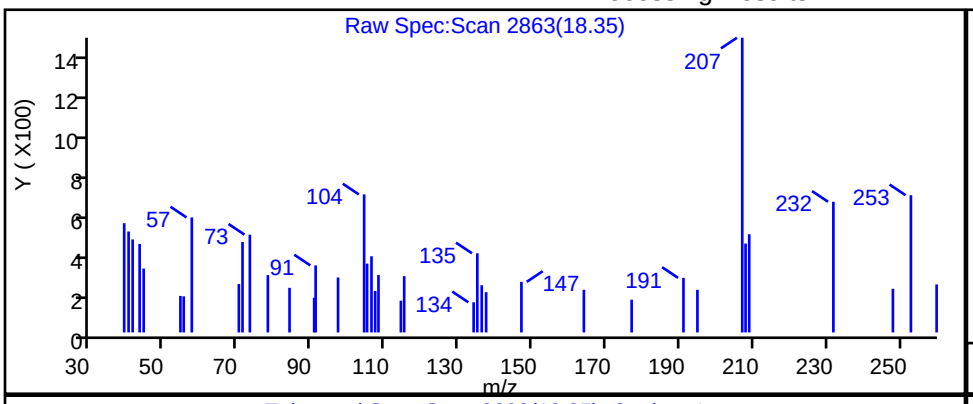
User Disabled Compound Report

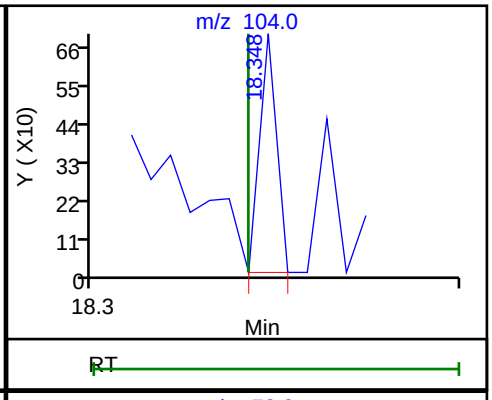
TestAmerica Burlington

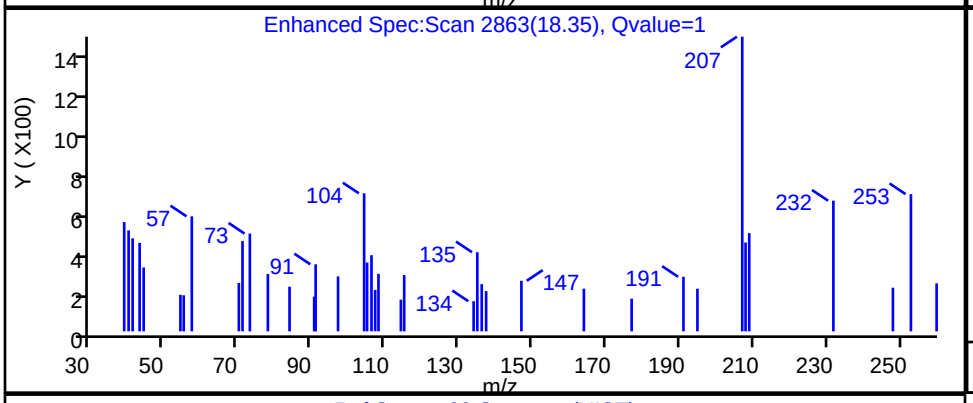
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

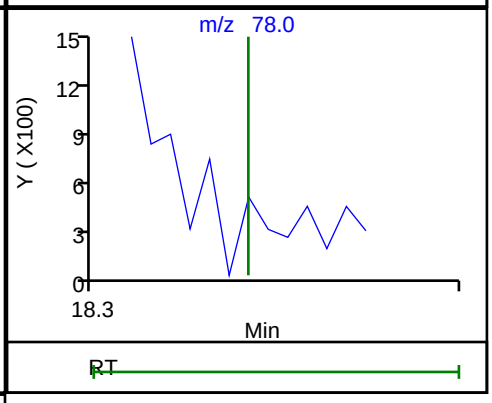
## 80 Styrene, CAS: 100-42-5

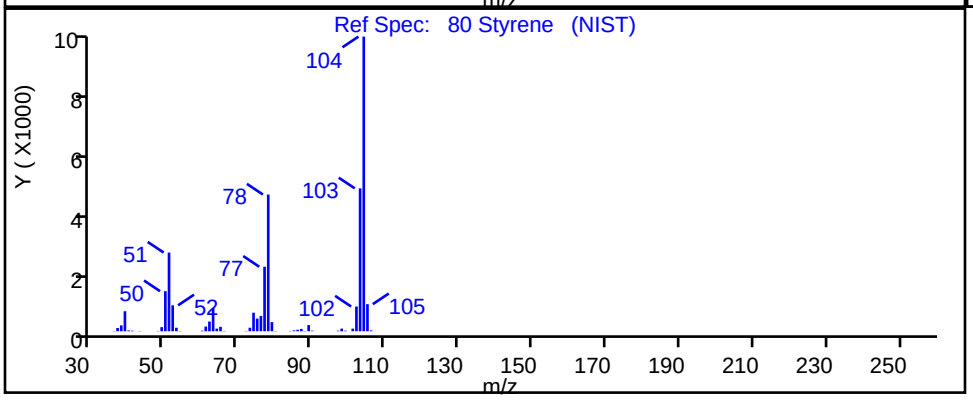
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.35 | 104.00 | 223 | 0.001716 |
| 18.34 | 78.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

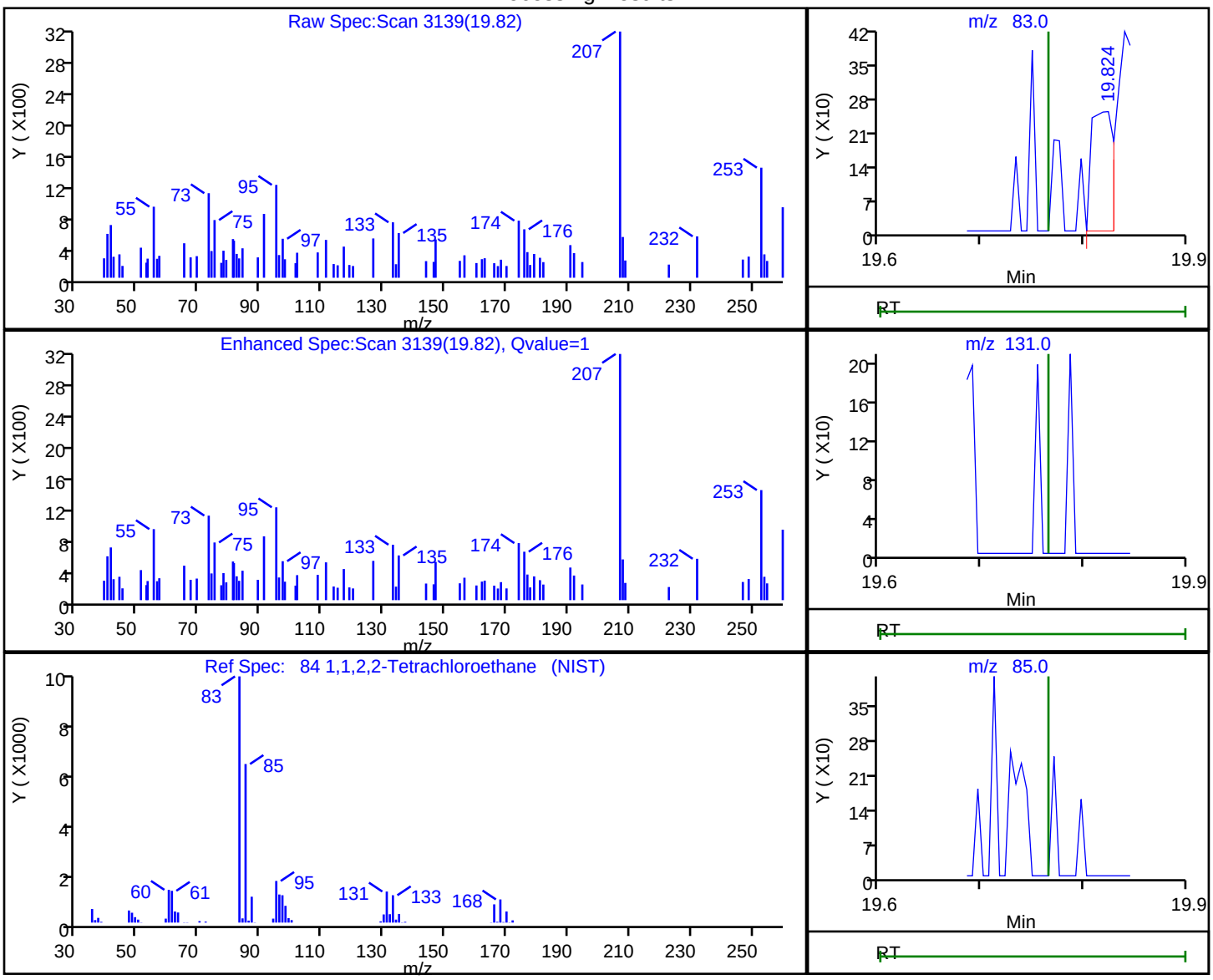
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.82 | 83.00 | 373 | 0.002754 |
| 19.76 | 131.00 | 0 | |
| 19.76 | 85.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

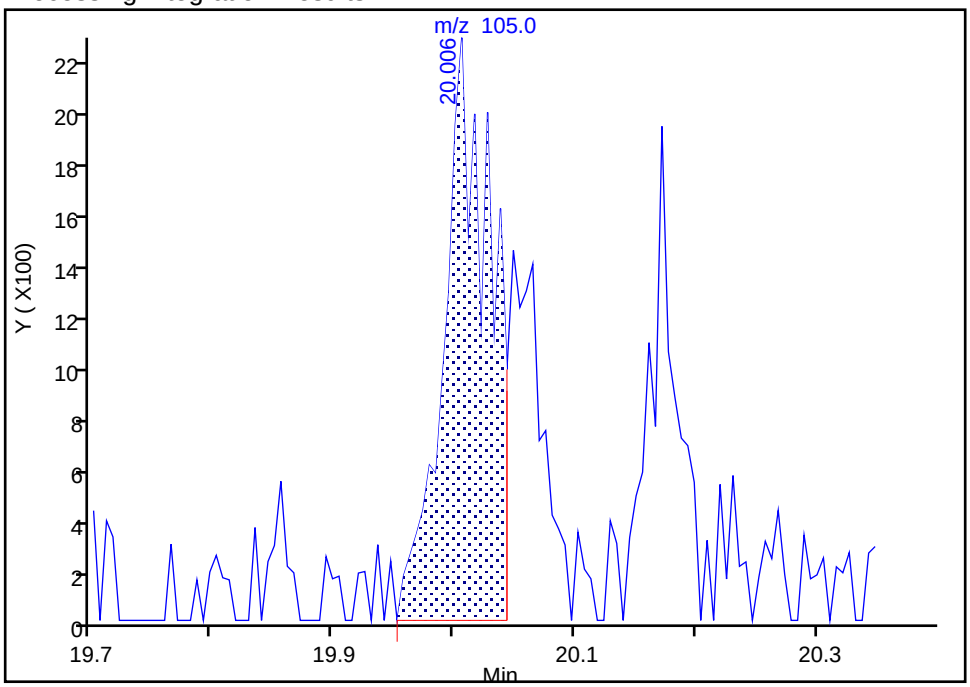
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

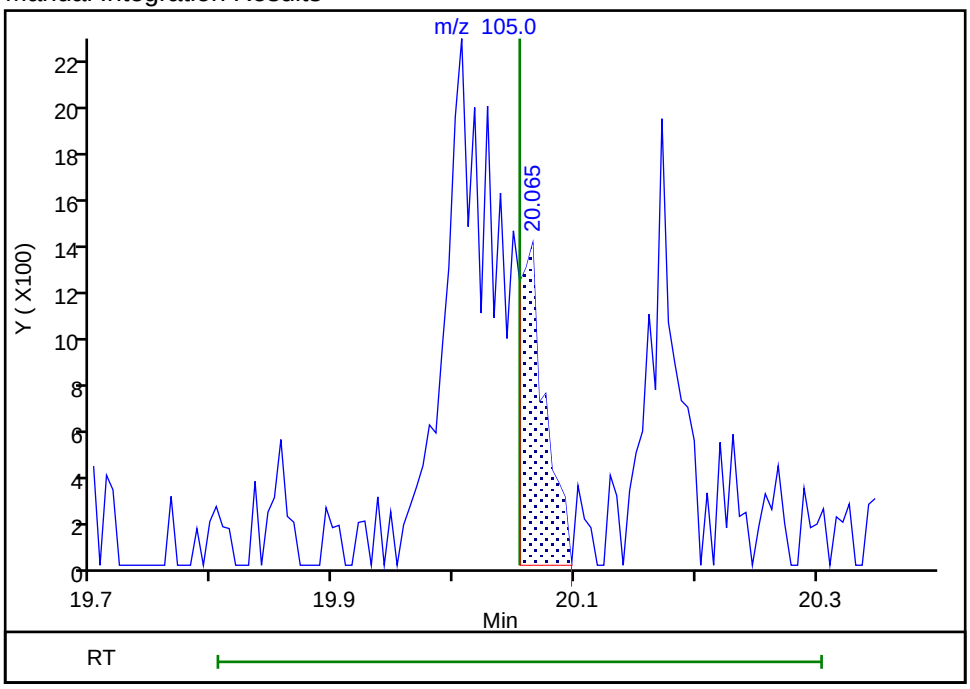
Processing Integration Results

RT: 20.01
Area: 6004
Amount: 0.023859
Amount Units: ppb v/v




Manual Integration Results

RT: 20.07
Area: 2025
Amount: 0.008047
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 16:35:27

Audit Action: Assigned Compound ID Audit Reason: Assign Peak

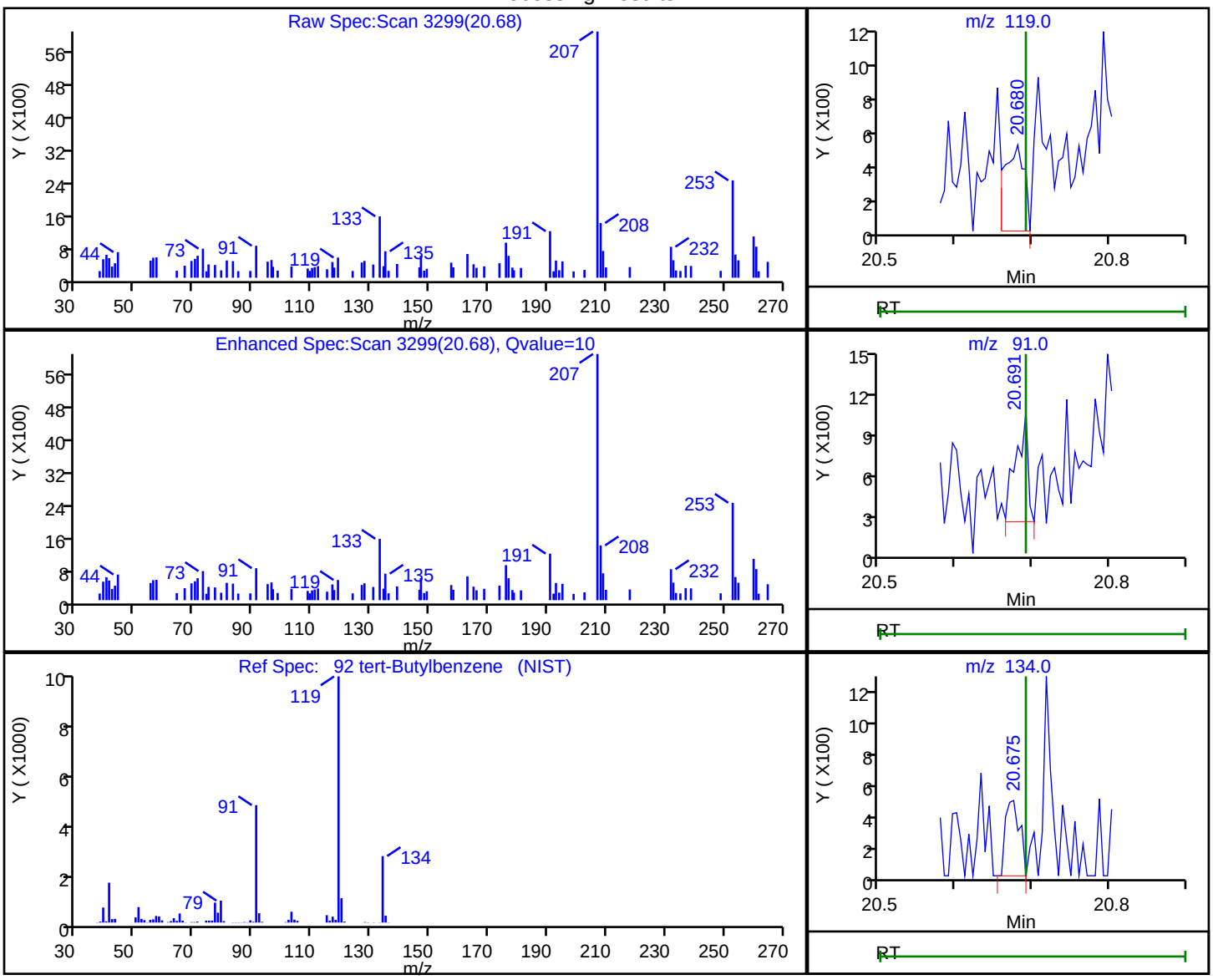
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.68 | 119.00 | 890 | 0.004419 |
| 20.69 | 91.00 | 880 | |
| 20.67 | 134.00 | 615 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

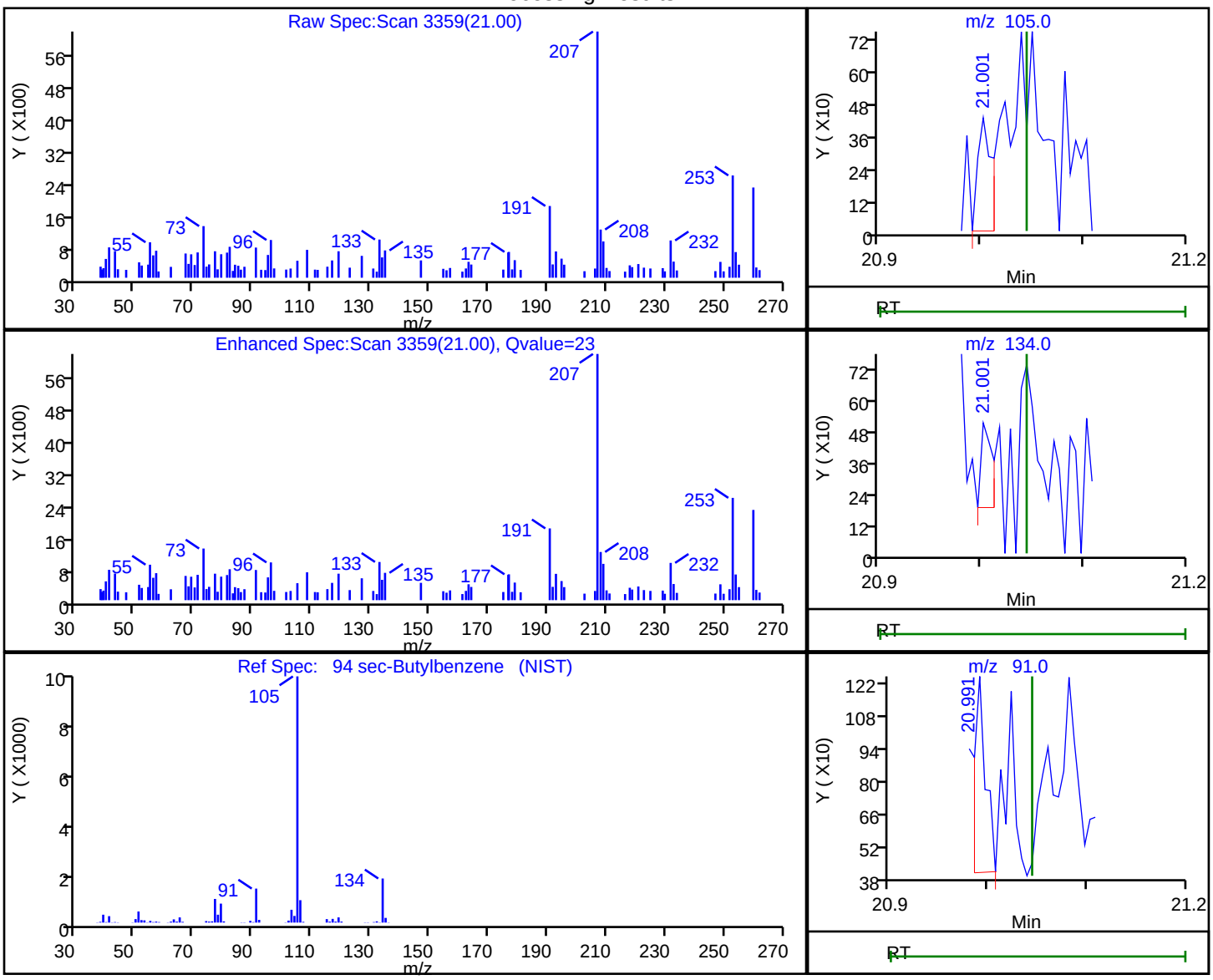
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.00 | 105.00 | 401 | 0.001343 |
| 21.00 | 134.00 | 247 | |
| 20.99 | 91.00 | 662 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

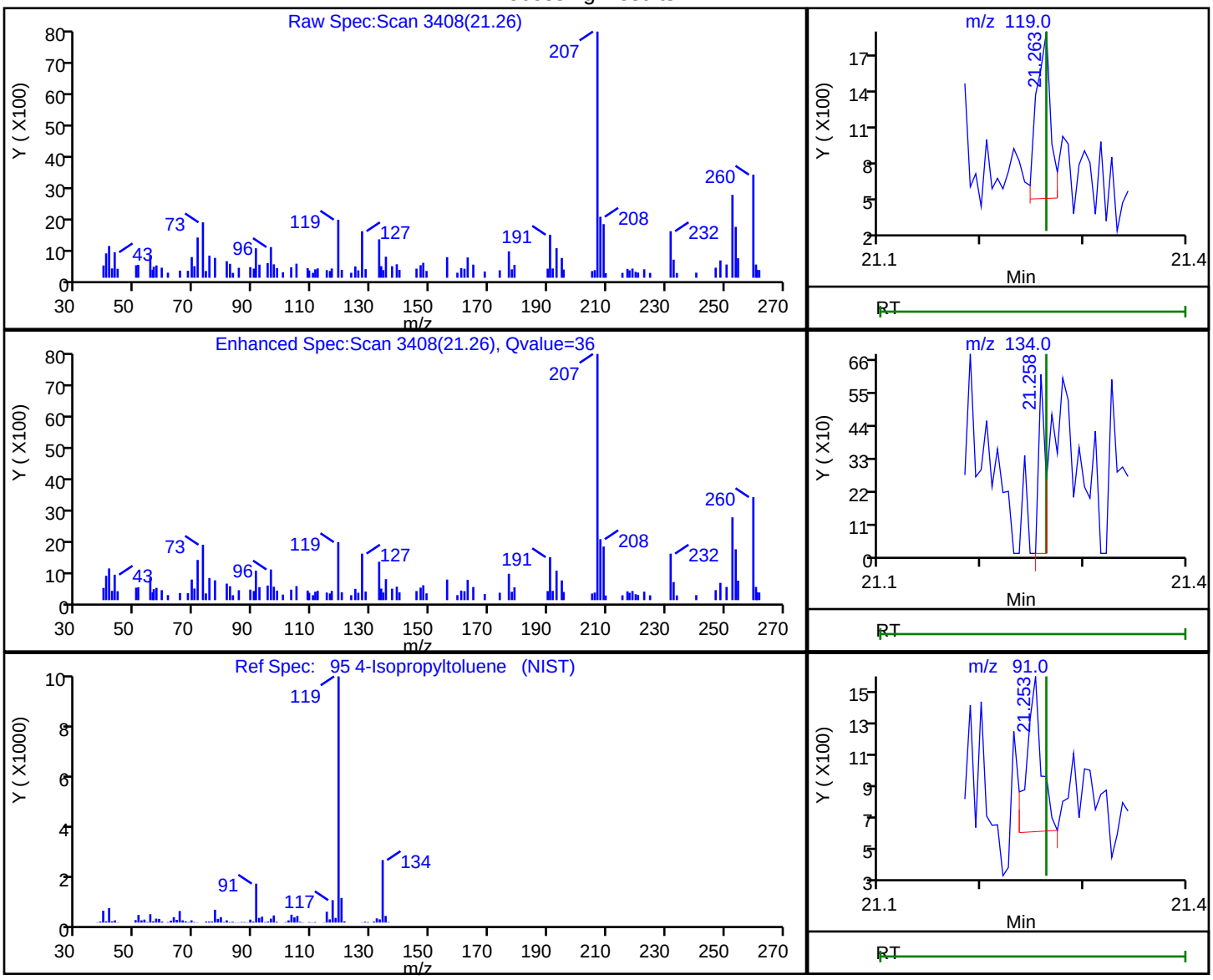
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 119.00 | 1282 | 0.005009 |
| 21.26 | 134.00 | 273 | |
| 21.25 | 91.00 | 871 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

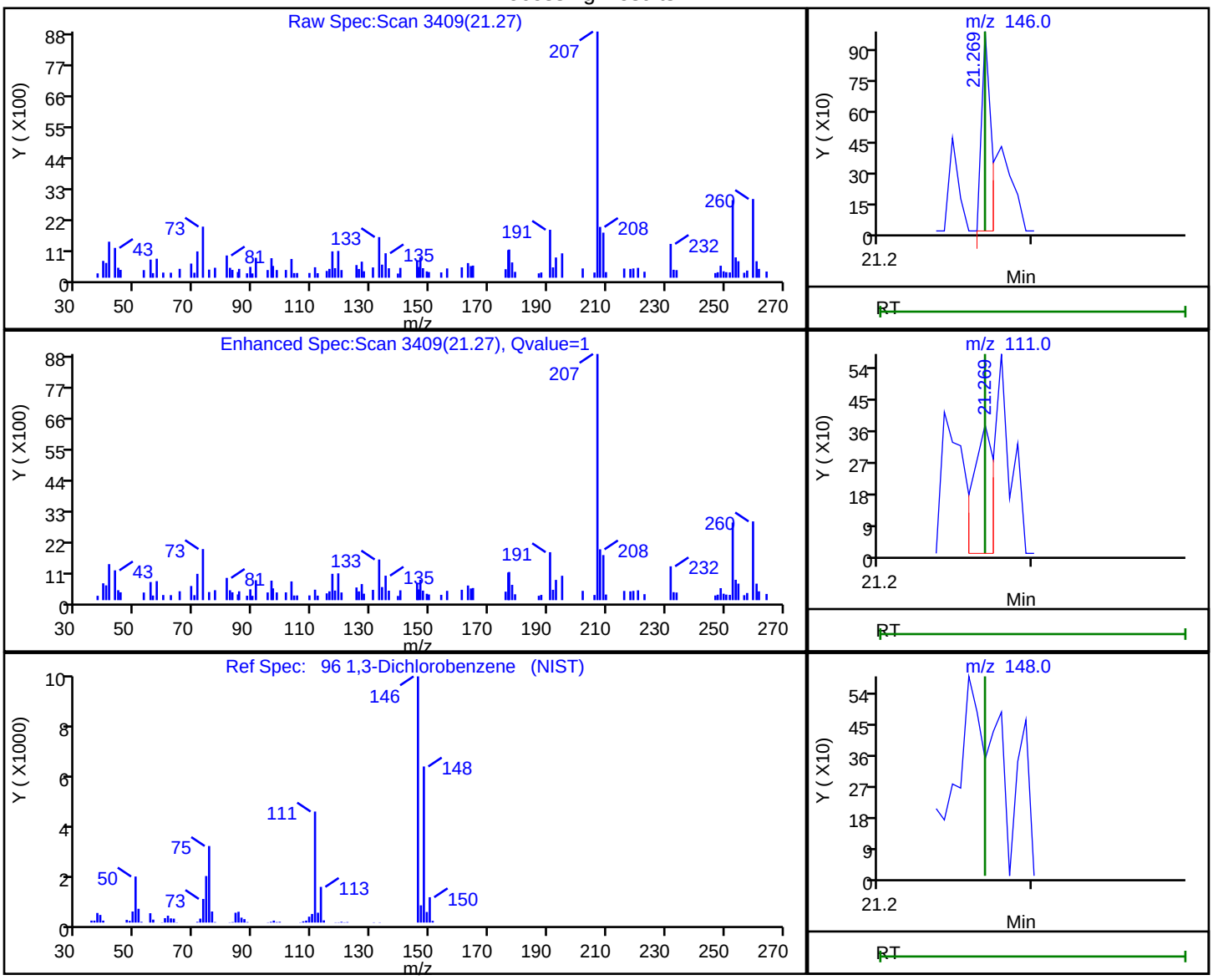
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.27 | 146.00 | 427 | 0.002480 |
| 21.27 | 111.00 | 349 | |
| 21.27 | 148.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

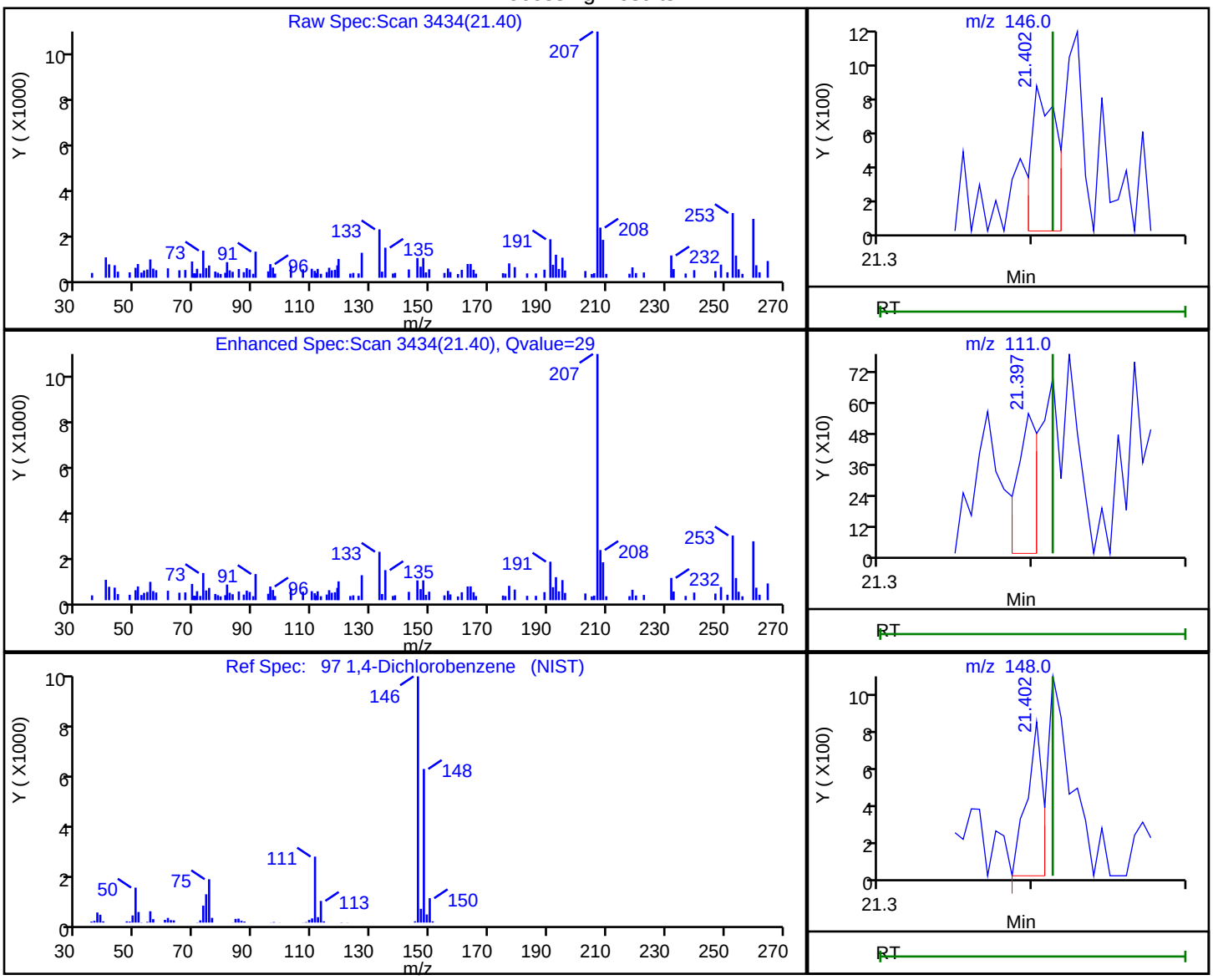
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.40 | 146.00 | 921 | 0.005595 |
| 21.40 | 111.00 | 521 | |
| 21.40 | 148.00 | 596 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

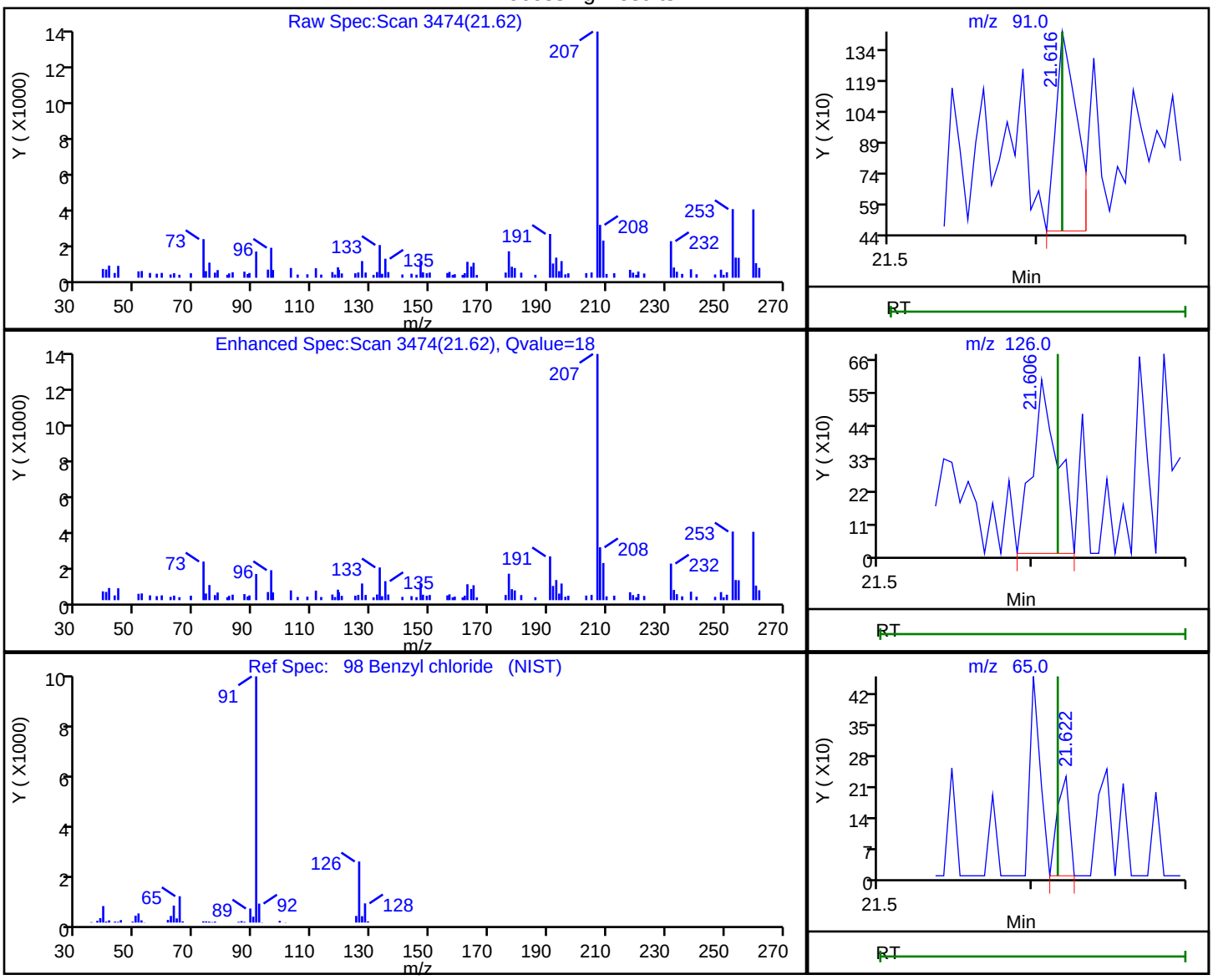
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.62 | 91.00 | 969 | 0.004768 |
| 21.61 | 126.00 | 678 | |
| 21.62 | 65.00 | 125 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

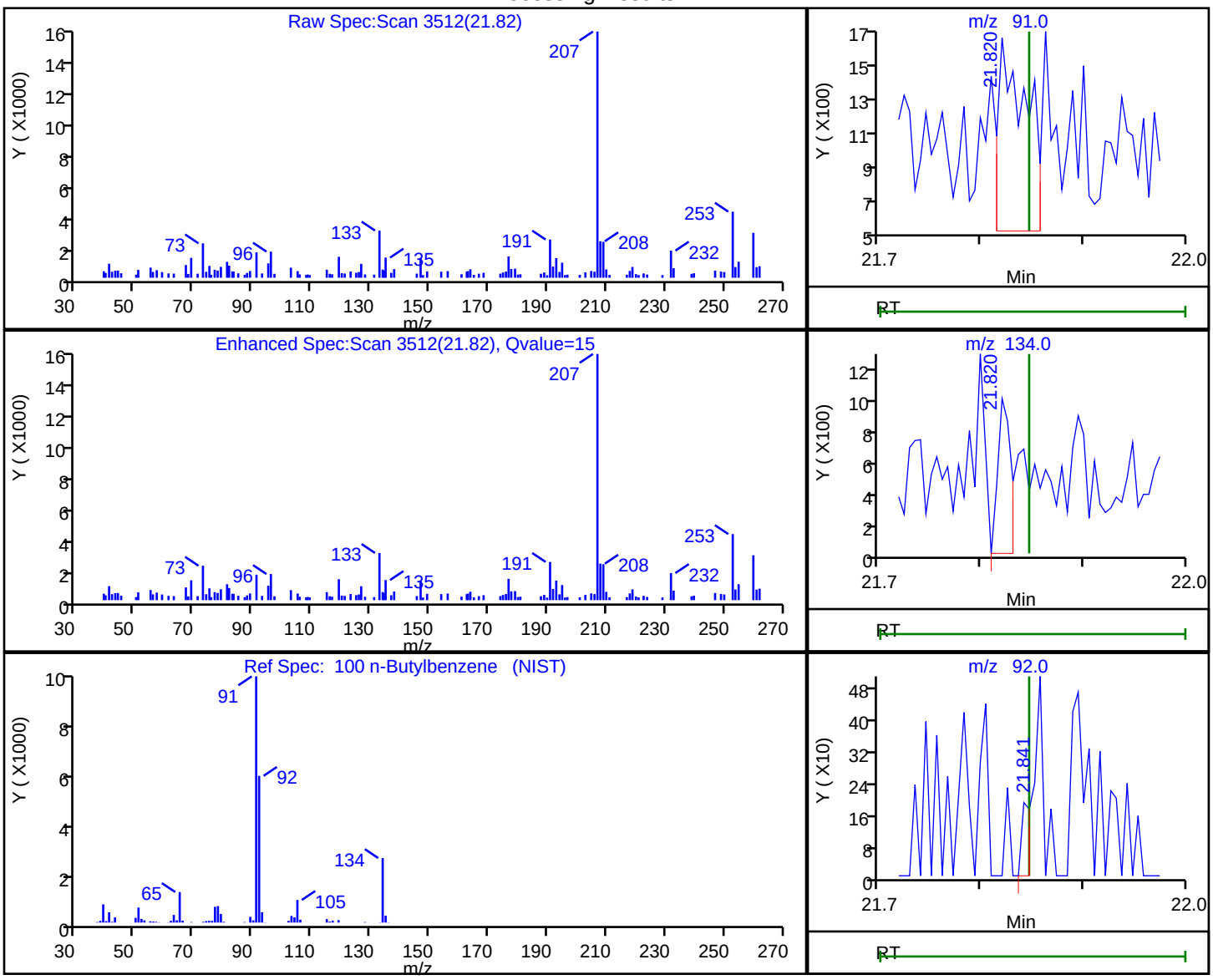
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.82 | 91.00 | 2029 | 0.008695 |
| 21.82 | 134.00 | 835 | |
| 21.84 | 92.00 | 115 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

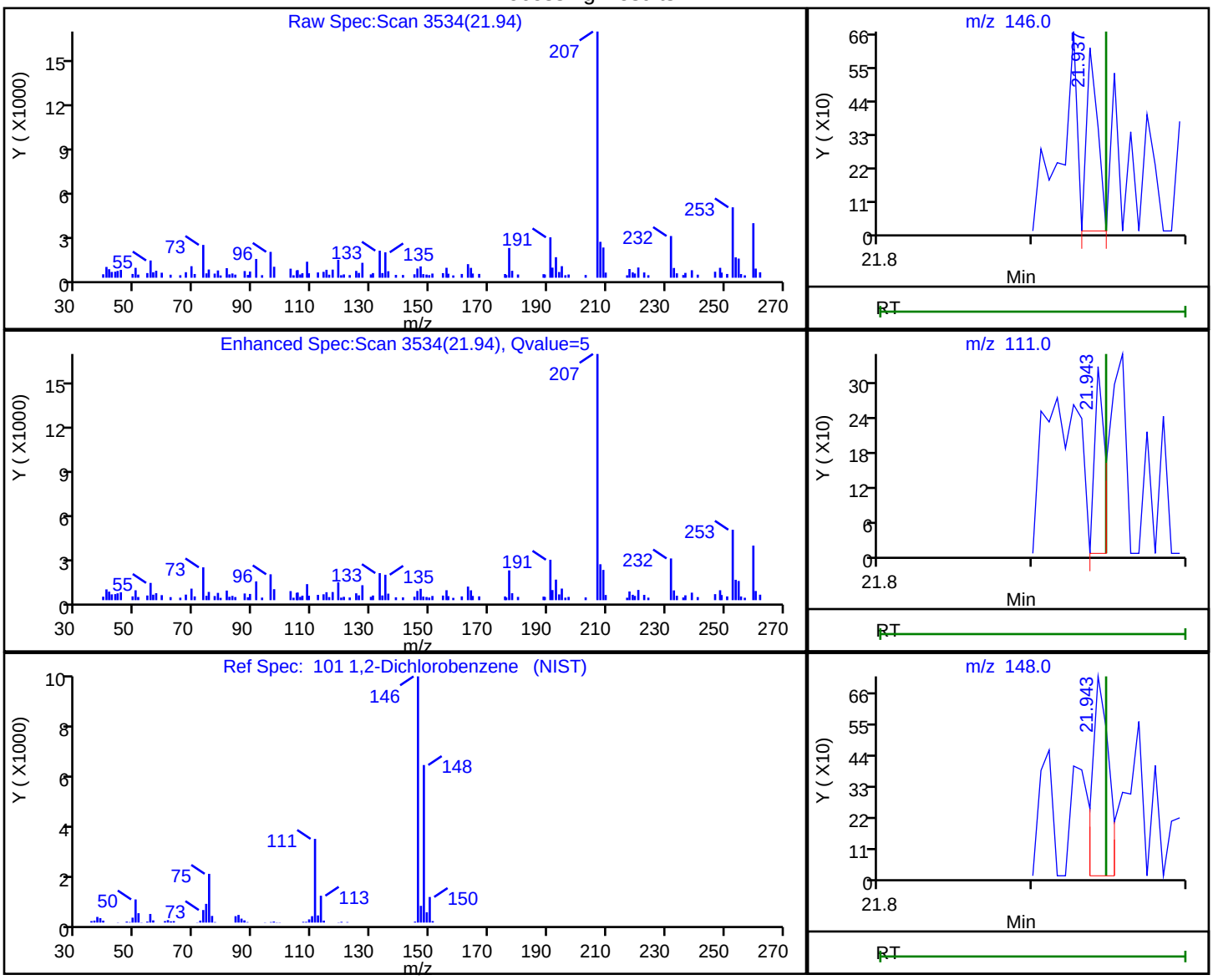
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.94 | 146.00 | 308 | 0.001947 |
| 21.94 | 111.00 | 154 | |
| 21.94 | 148.00 | 535 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

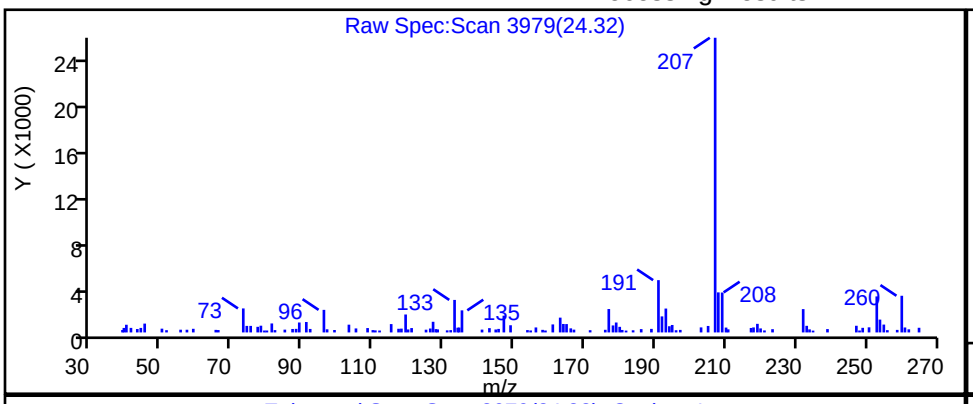
User Disabled Compound Report

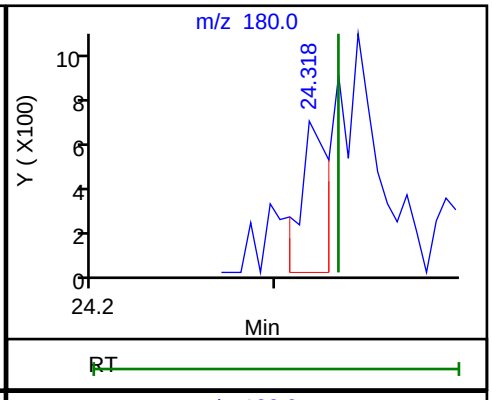
TestAmerica Burlington

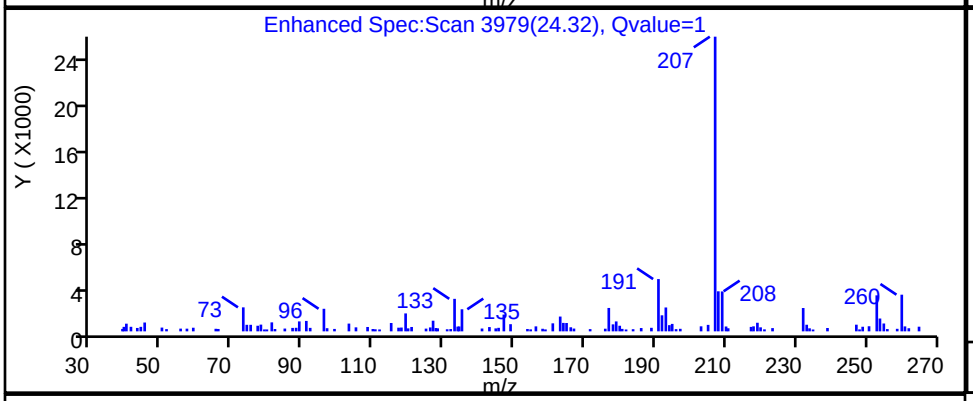
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

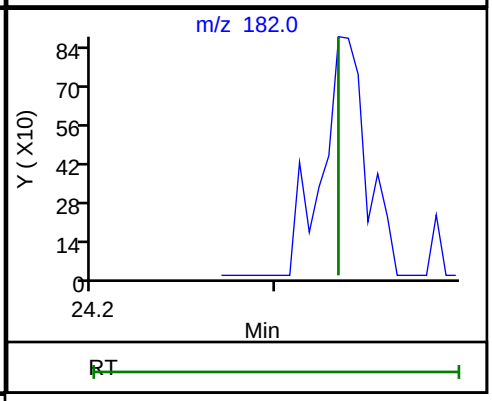
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

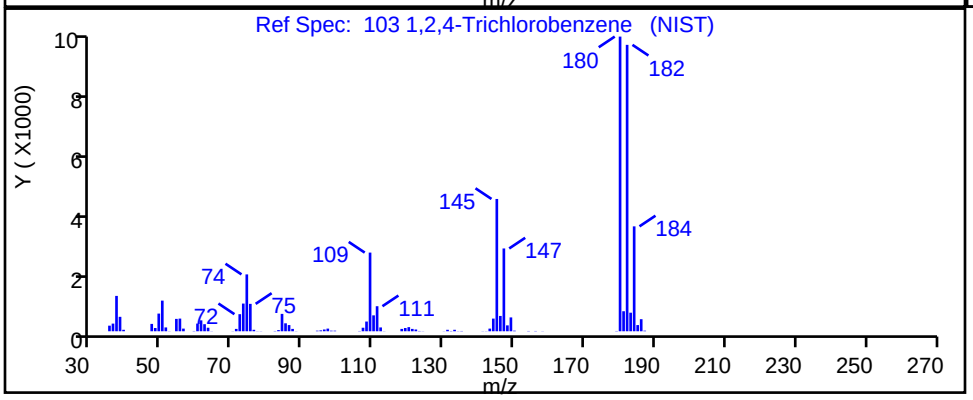
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.32 | 180.00 | 724 | 0.006088 |
| 24.33 | 182.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

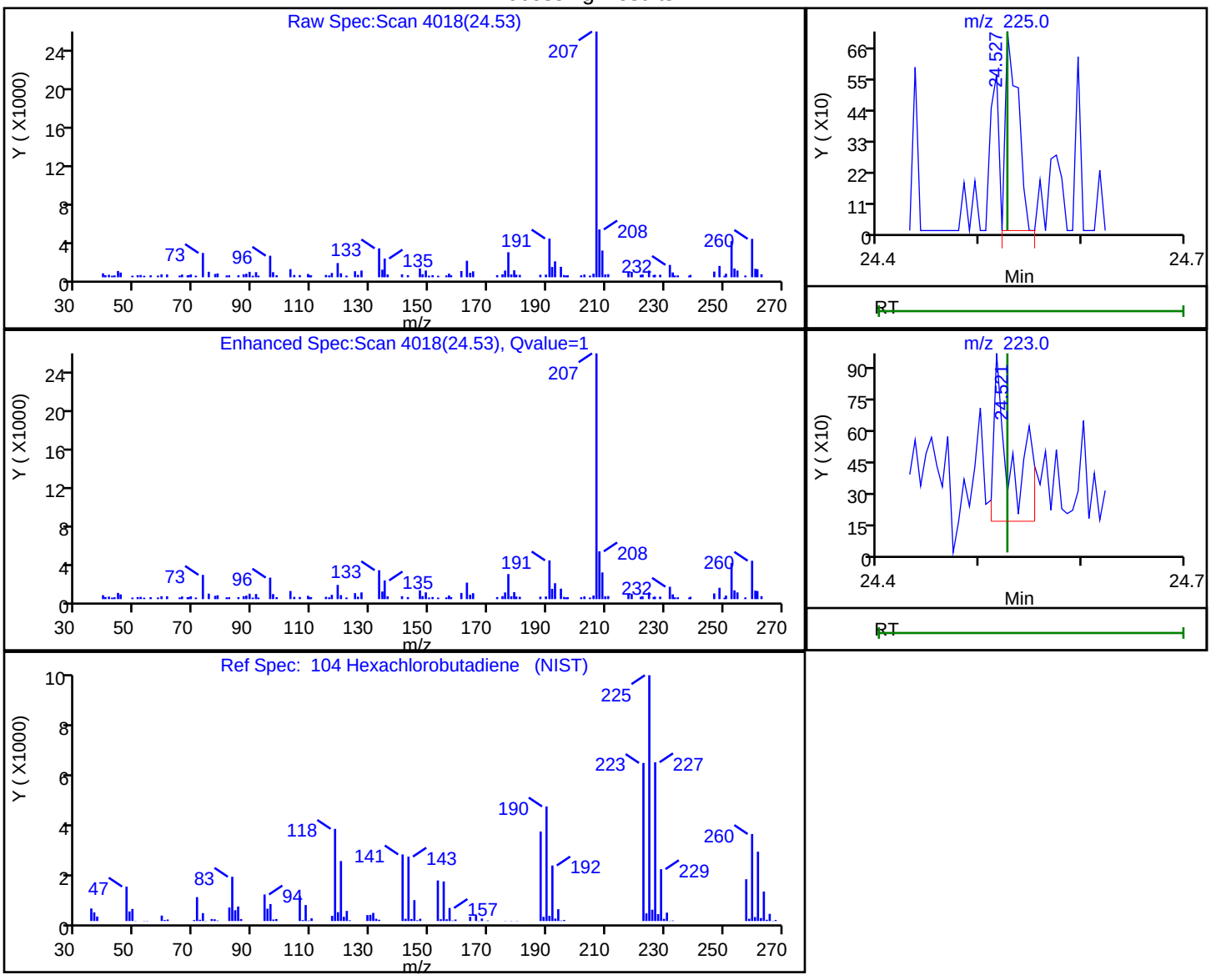
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 608 | 0.005140 |
| 24.52 | 223.00 | 929 | |

Reviewer: puangmaleek, 07-Dec-2018 16:35:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

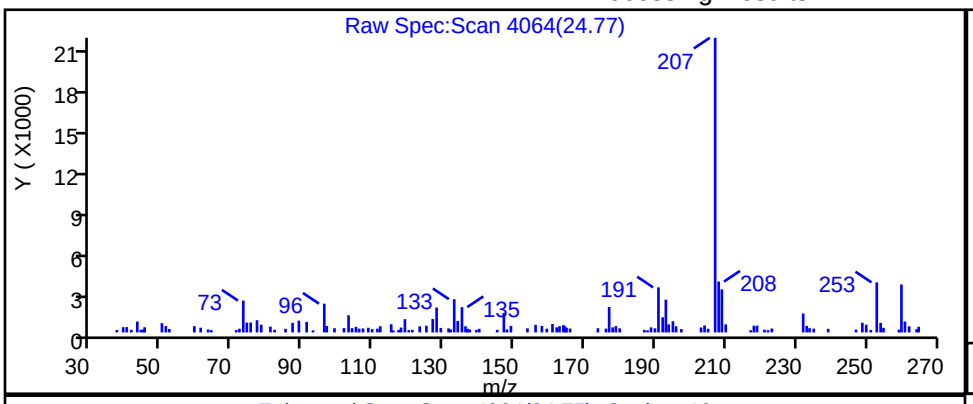
User Disabled Compound Report

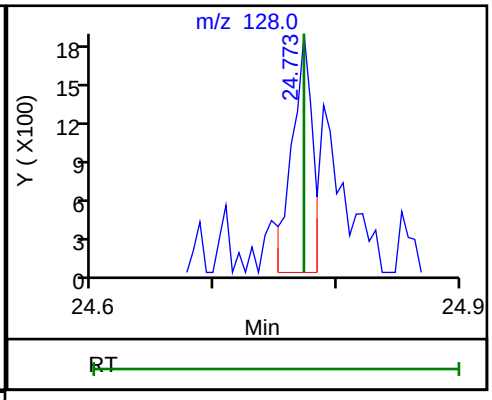
TestAmerica Burlington

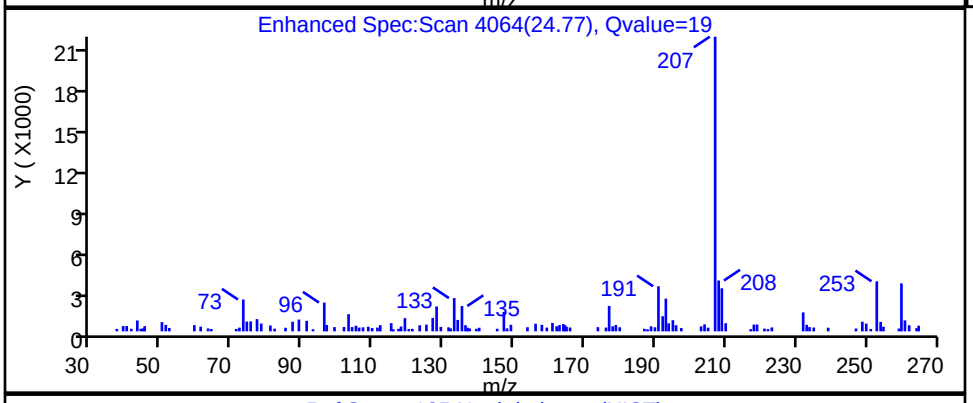
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D | | | | |
| Injection Date: | 06-Dec-2018 22:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-6 | Lab Sample ID: | 200-46353-6 | | |
| Client ID: | IA-5_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 11 | Worklist Smp#: | 11 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 4.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

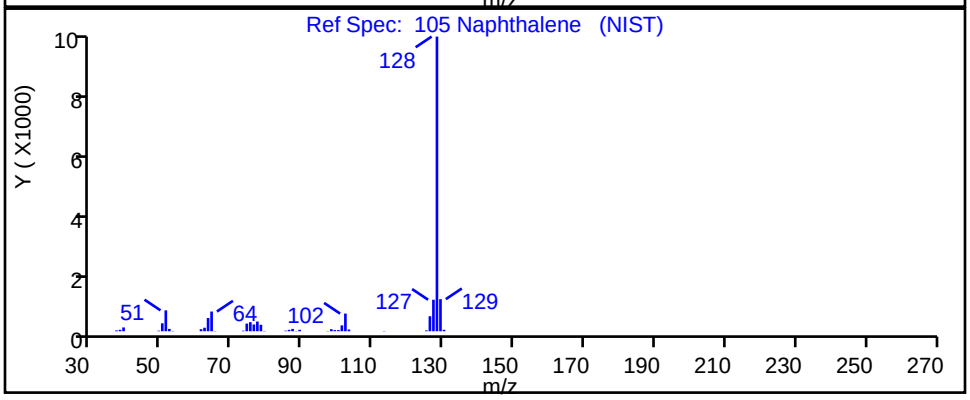
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.77 | 128.00 | 2145 | 0.009304 |

Reviewer: puangmaleek, 07-Dec-2018 16:14:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 25 | U | 25 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 25 | U | 25 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 10 | U | 10 | |
| 74-87-3 | Chloromethane | 50.49 | 25 | U | 25 | |
| 106-97-8 | n-Butane | 58.12 | 25 | U | 25 | |
| 75-01-4 | Vinyl chloride | 62.50 | 3.9 | U | 3.9 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 10 | U | 10 | |
| 74-83-9 | Bromomethane | 94.94 | 10 | U | 10 | |
| 75-00-3 | Chloroethane | 64.52 | 25 | U | 25 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 10 | U | 10 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 10 | U | 10 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 10 | U | 10 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 1.8 | U | 1.8 | |
| 67-64-1 | Acetone | 58.08 | 250 | U | 250 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 250 | U | 250 | |
| 75-15-0 | Carbon disulfide | 76.14 | 25 | U | 25 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 25 | U | 25 | |
| 75-09-2 | Methylene Chloride | 84.93 | 25 | U | 25 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 250 | U | 250 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 10 | U | 10 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 10 | U | 10 | |
| 110-54-3 | n-Hexane | 86.17 | 10 | U | 10 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 10 | U | 10 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 25 | U | 25 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 2.5 | U | 2.5 | |
| 67-66-3 | Chloroform | 119.38 | 62 | | 10 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 250 | U | 250 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 10 | U | 10 | |
| 110-82-7 | Cyclohexane | 84.16 | 10 | U | 10 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 1.8 | U | 1.8 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 10 | U | 10 | |
| 71-43-2 | Benzene | 78.11 | 10 | U | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 10 | U | 10 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120  Lab Sample ID: 200-46353-7

Matrix: Air  Lab File ID: 200-33531-023.D

Analysis Method: TO-15  Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL)  Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol:  Dilution Factor: 50

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 10 | U | 10 | |
| 79-01-6 | Trichloroethene | 131.39 | 1.8 | U | 1.8 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 25 | U | 25 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 10 | U | 10 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 250 | U | 250 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 10 | U | 10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 10 | U | 10 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 25 | U | 25 | |
| 108-88-3 | Toluene | 92.14 | 10 | U | 10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 10 | U | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 10 | U | 10 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 10 | U | 10 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 25 | U | 25 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 10 | U | 10 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 10 | U | 10 | |
| 108-90-7 | Chlorobenzene | 112.56 | 10 | U | 10 | |
| 100-41-4 | Ethylbenzene | 106.17 | 10 | U | 10 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 25 | U | 25 | |
| 95-47-6 | o-Xylene | 106.17 | 10 | U | 10 | |
| 100-42-5 | Styrene | 104.15 | 10 | U | 10 | |
| 75-25-2 | Bromoform | 252.75 | 10 | U | 10 | |
| 98-82-8 | Cumene | 120.19 | 10 | U | 10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 10 | U | 10 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 10 | U | 10 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 10 | U | 10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 10 | U | 10 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 10 | U | 10 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 10 | U | 10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 10 | U | 10 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 10 | U | 10 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 10 | U | 10 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 10 | U | 10 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 10 | U | 10 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120  Lab Sample ID: 200-46353-7

Matrix: Air  Lab File ID: 200-33531-023.D

Analysis Method: TO-15  Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL)  Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol:  Dilution Factor: 50

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 10 | U | 10 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 10 | U | 10 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 10 | U | 10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 25 | U | 25 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 10 | U | 10 | |
| 91-20-3 | Naphthalene | 128.17 | 25 | U | 25 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 120 | U | 120 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 88 | U | 88 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 70 | U | 70 | |
| 74-87-3 | Chloromethane | 50.49 | 52 | U | 52 | |
| 106-97-8 | n-Butane | 58.12 | 59 | U | 59 | |
| 75-01-4 | Vinyl chloride | 62.50 | 10 | U | 10 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 22 | U | 22 | |
| 74-83-9 | Bromomethane | 94.94 | 39 | U | 39 | |
| 75-00-3 | Chloroethane | 64.52 | 66 | U | 66 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 44 | U | 44 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 56 | U | 56 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 77 | U | 77 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 7.0 | U | 7.0 | |
| 67-64-1 | Acetone | 58.08 | 590 | U | 590 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 610 | U | 610 | |
| 75-15-0 | Carbon disulfide | 76.14 | 78 | U | 78 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 78 | U | 78 | |
| 75-09-2 | Methylene Chloride | 84.93 | 87 | U | 87 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 760 | U | 760 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 36 | U | 36 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 40 | U | 40 | |
| 110-54-3 | n-Hexane | 86.17 | 35 | U | 35 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 40 | U | 40 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 74 | U | 74 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 10 | U | 10 | |
| 67-66-3 | Chloroform | 119.38 | 300 | | 49 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 740 | U | 740 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 55 | U | 55 | |
| 110-82-7 | Cyclohexane | 84.16 | 34 | U | 34 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 11 | U | 11 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 47 | U | 47 | |
| 71-43-2 | Benzene | 78.11 | 32 | U | 32 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 40 | U | 40 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 41 | U | 41 | |
| 79-01-6 | Trichloroethene | 131.39 | 9.4 | U | 9.4 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 100 | U | 100 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 46 | U | 46 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 900 | U | 900 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 67 | U | 67 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 45 | U | 45 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 100 | U | 100 | |
| 108-88-3 | Toluene | 92.14 | 38 | U | 38 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 45 | U | 45 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 55 | U | 55 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 68 | U | 68 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 100 | U | 100 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 85 | U | 85 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 77 | U | 77 | |
| 108-90-7 | Chlorobenzene | 112.56 | 46 | U | 46 | |
| 100-41-4 | Ethylbenzene | 106.17 | 43 | U | 43 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 110 | U | 110 | |
| 95-47-6 | o-Xylene | 106.17 | 43 | U | 43 | |
| 100-42-5 | Styrene | 104.15 | 43 | U | 43 | |
| 75-25-2 | Bromoform | 252.75 | 100 | U | 100 | |
| 98-82-8 | Cumene | 120.19 | 49 | U | 49 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 69 | U | 69 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 49 | U | 49 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 49 | U | 49 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 49 | U | 49 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 52 | U | 52 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 55 | U | 55 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 49 | U | 49 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 55 | U | 55 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 55 | U | 55 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 60 | U | 60 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 60 | U | 60 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120  Lab Sample ID: 200-46353-7

Matrix: Air  Lab File ID: 200-33531-023.D

Analysis Method: TO-15  Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL)  Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol:  Dilution Factor: 50

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 52 | U | 52 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 55 | U | 55 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 60 | U | 60 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 190 | U | 190 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 110 | U | 110 | |
| 91-20-3 | Naphthalene | 128.17 | 130 | U | 130 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D
Lims ID: 200-46353-A-7
Client ID: MP-1_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 08:32:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 200.000 mL Dil. Factor: 50.0000
Sample Info: 200-0033531-023
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:31:27 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: tobere Date: 06-Dec-2018 10:32:24

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | | 3.155 | | | | ND | |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | ND | MU |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | ND | U |
| 5 Chloromethane | 50 | | 3.465 | | | | ND | U |
| 6 Butane | 43 | | 3.604 | | | | ND | MU |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | U |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | | 4.760 | | | | ND | U |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.605 | | | | ND | U |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.877 | 5.853 | 0.021 | 99 | 124904 | 2.53 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.001 | 0.000 | 81 | 3045 | 0.0204 | |
| 24 Isopropyl alcohol | 45 | | 6.097 | | | | ND | Ua |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | U |
| 27 Methylene Chloride | 49 | | 6.557 | | | | ND | U |
| 28 2-Methyl-2-propanol | 59 | 6.814 | 6.767 | 0.043 | 88 | 7204 | 0.0865 | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | | 7.279 | | | | ND | U |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | | 8.793 | | | | ND | U |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.152 | -0.006 | 75 | 633540 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | U |
| 42 Chloroform | 83 | 9.269 | 9.275 | 0.000 | 95 | 164301 | 1.24 | |
| 43 Cyclohexane | 84 | 9.515 | 9.515 | -0.016 | 58 | 3579 | 0.0522 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | |
| 45 Carbon tetrachloride | 117 | | 9.783 | | | | ND | |
| 46 Isooctane | 57 | | 10.195 | | | | ND | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | | 10.216 | | | | ND | MU |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| | 49 n-Heptane | 43 | 10.569 | 10.559 | -0.006 | 91 | 14803 | 0.1808 | M |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2988260 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.484 | | | | ND | |
| | 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | U |
| | 58 Dichlorobromomethane | 83 | 12.559 | 12.559 | 0.010 | 1 | 4736 | 0.0293 | M |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | U |
| | 65 Toluene | 92 | 14.062 | 14.068 | -0.006 | 93 | 10357 | 0.0913 | M |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| | 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| | 68 Tetrachloroethene | 166 | | 15.143 | | | | ND | |
| | 69 2-Hexanone | 43 | | 15.507 | | | | ND | MU |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | U |
| * | 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2799162 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | | 17.182 | | | | ND | U |
| | 78 m-Xylene & p-Xylene | 106 | | 17.433 | | | | ND | MU |
| | 79 o-Xylene | 106 | | 18.294 | | | | ND | U |
| | 80 Styrene | 104 | | 18.337 | | | | ND | U |
| | 81 Bromoform | 173 | | 18.781 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 19.049 | | | | ND | MU |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | | 19.846 | | | | ND | MU |
| | 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | U |
| | 88 4-Ethyltoluene | 105 | | 20.054 | | | | ND | Ua |
| | 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.167 | 0.000 | 49 | 9118 | 0.0366 | M |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.792 | 0.000 | 55 | 13186 | 0.0536 | |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | MU |
| | 95 4-Isopropyltoluene | 119 | | 21.269 | | | | ND | U |
| | 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | | 21.418 | | | | ND | U |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| | 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15GIS_00015 | Amount Added: | 20.00 | Units: mL | Run Reagent |

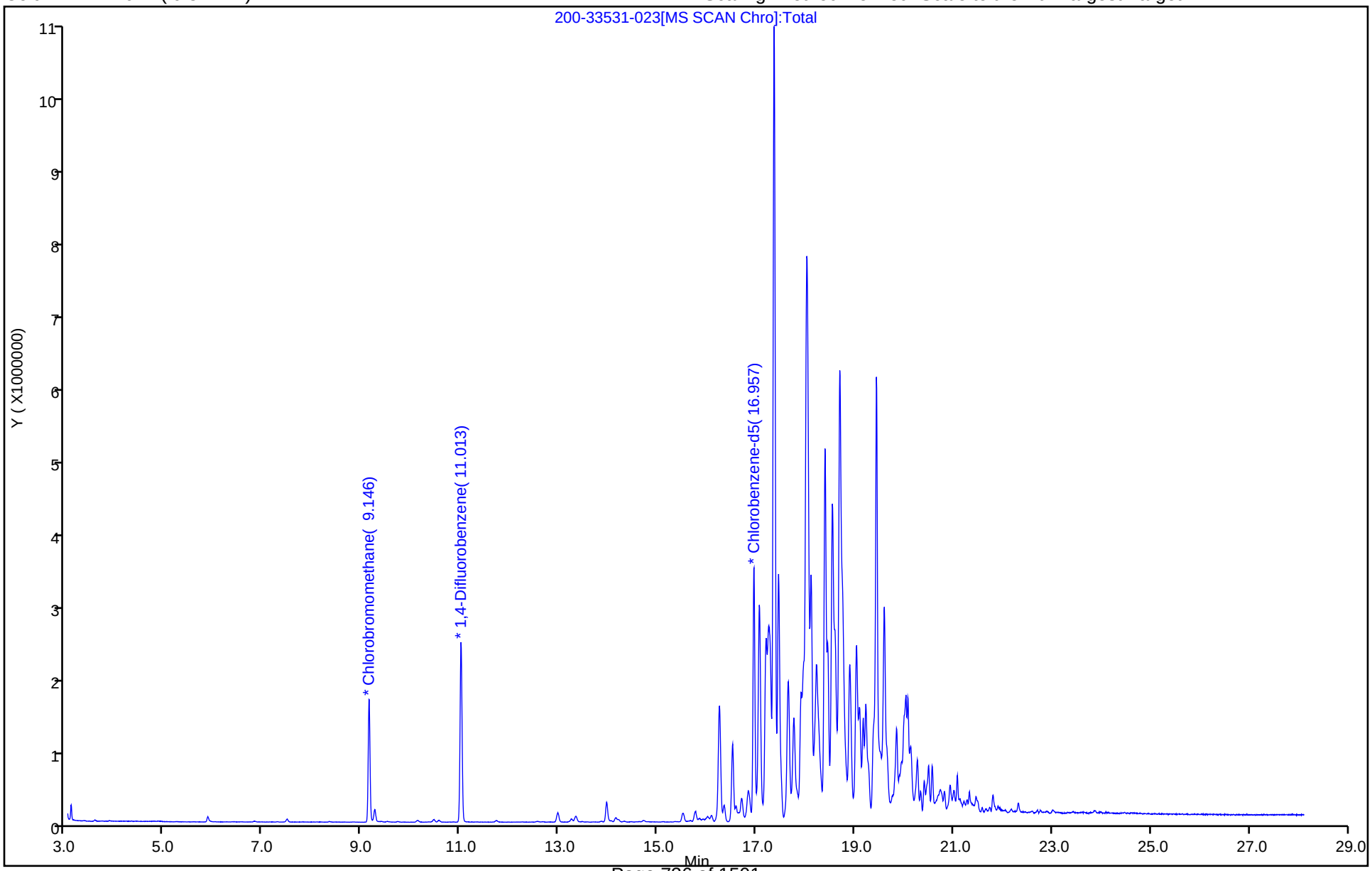
Report Date: 07-Dec-2018 09:31:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | Worklist Smp#: | 23 |
| Client ID: | MP-1_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | ALS Bottle#: | 23 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



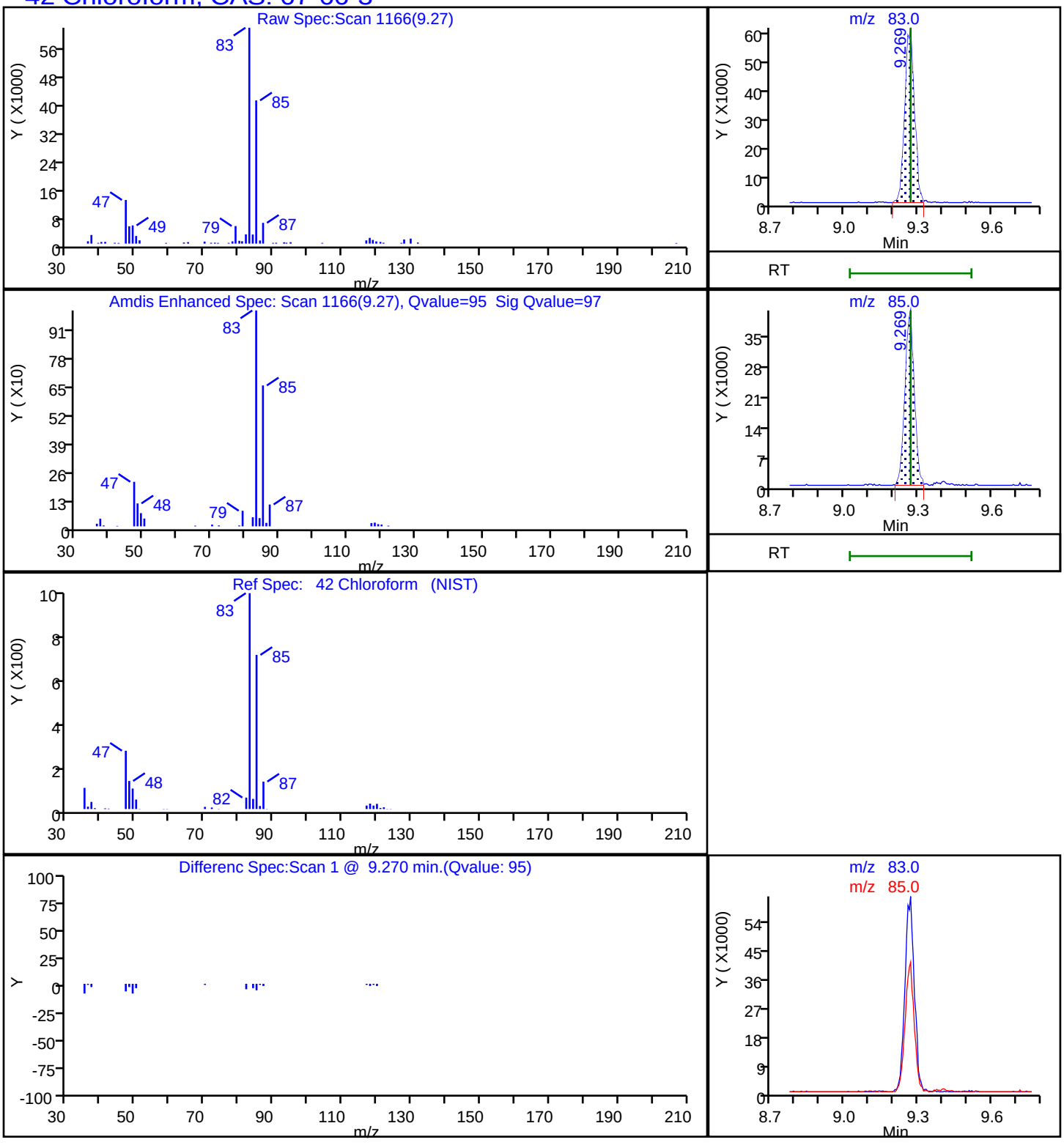
Report Date: 07-Dec-2018 09:31:32 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3



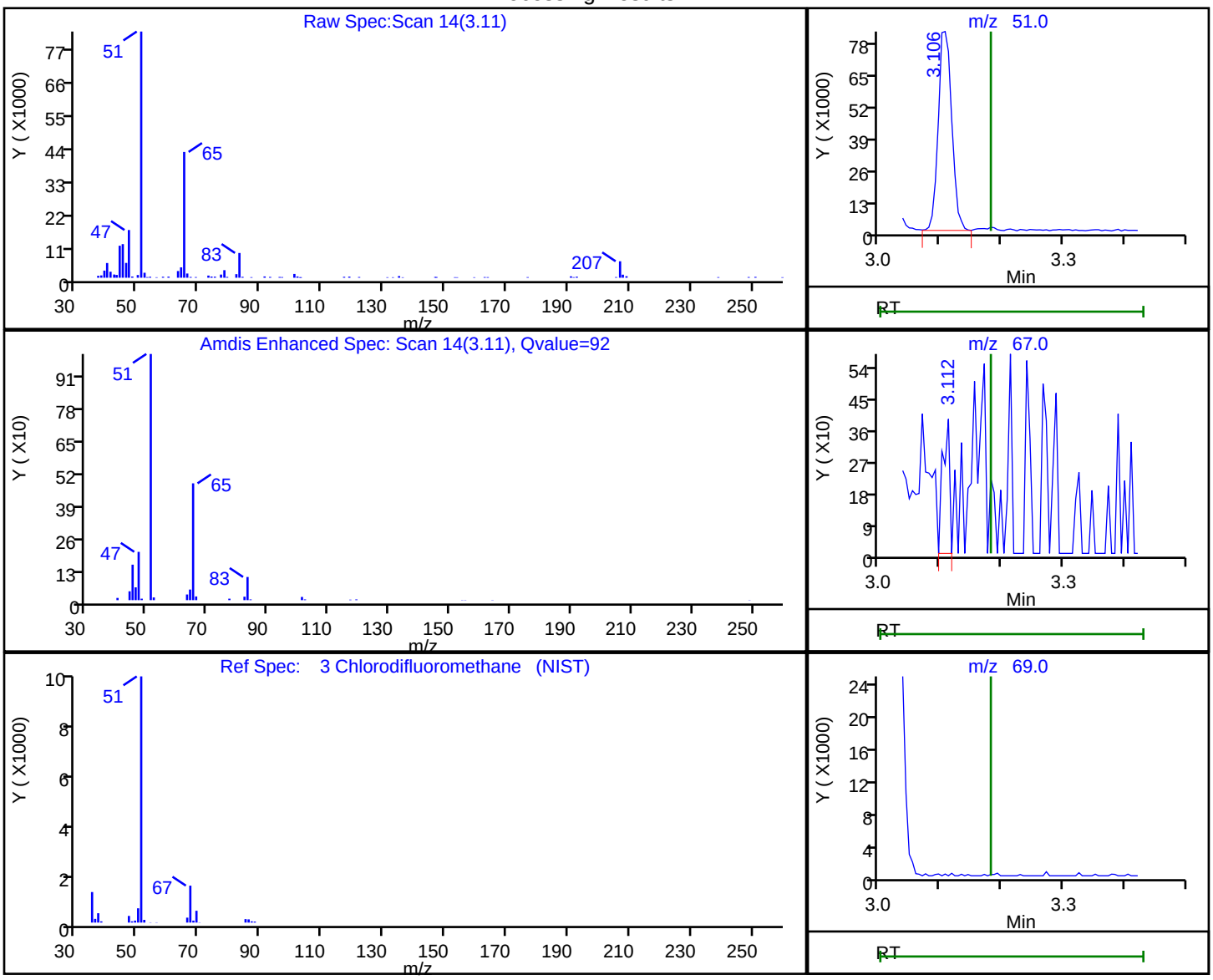
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.11 | 51.00 | 126547 | 1.257715 |
| 3.11 | 67.00 | 302 | |
| 3.18 | 69.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:25:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

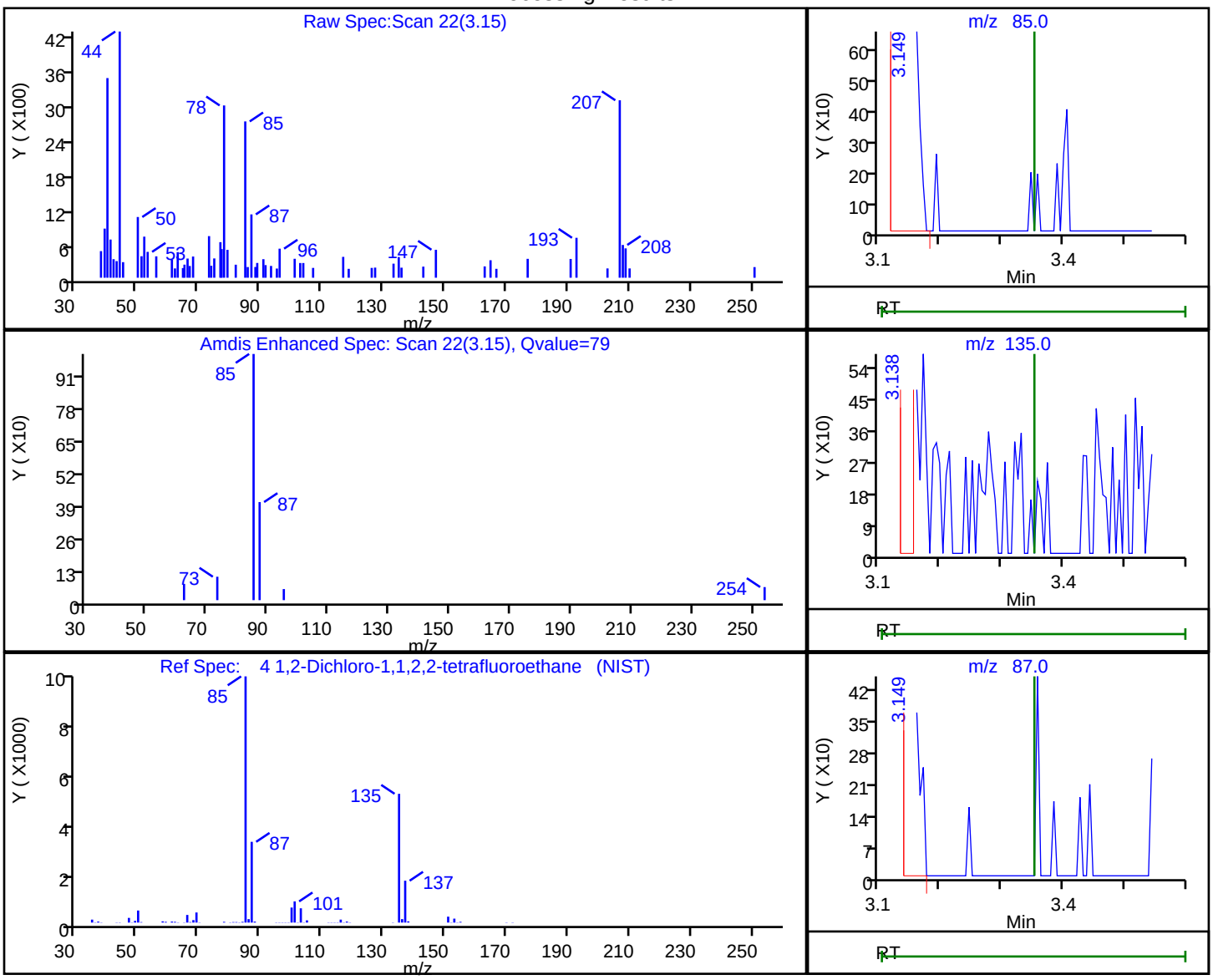
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.15 | 85.00 | 3547 | 0.019941 |
| 3.14 | 135.00 | 515 | |
| 3.15 | 87.00 | 1338 | |

Reviewer: bunmaa, 07-Dec-2018 09:25:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

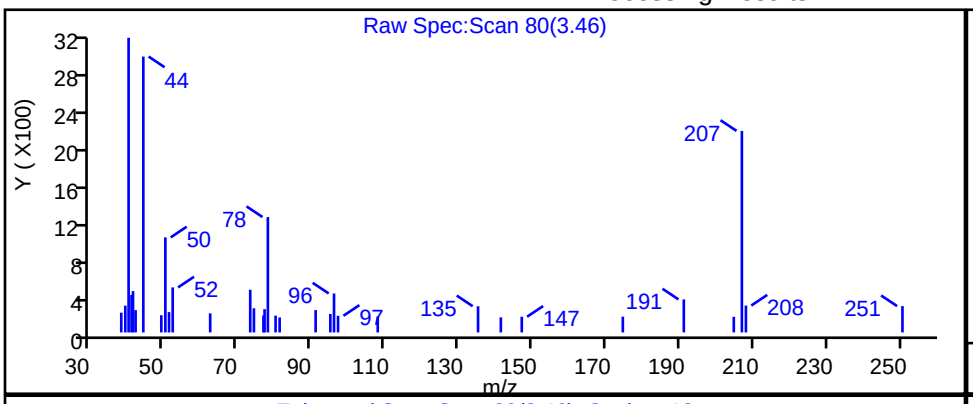
User Disabled Compound Report

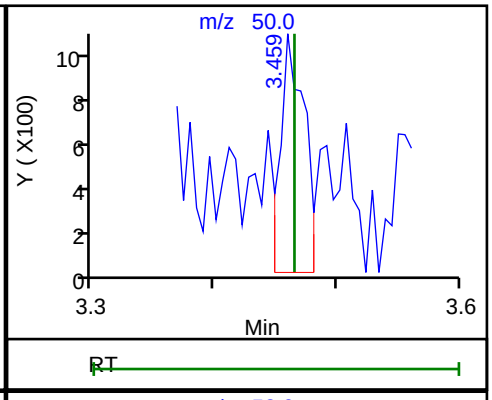
TestAmerica Burlington

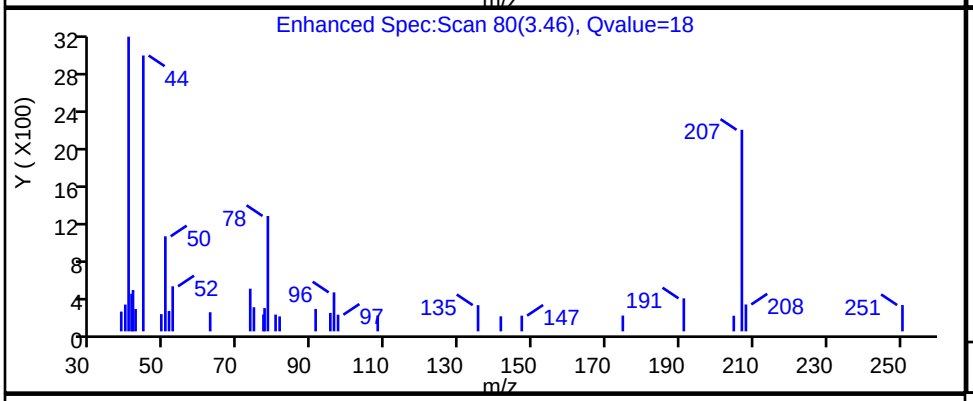
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

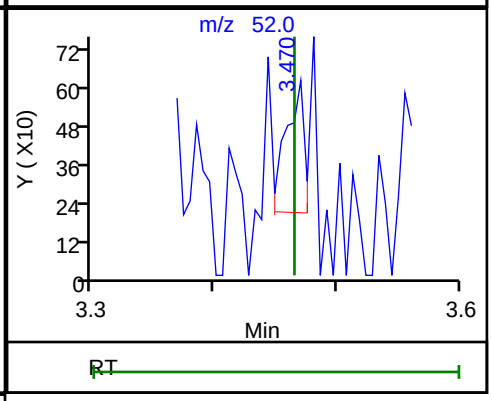
## 5 Chloromethane, CAS: 74-87-3

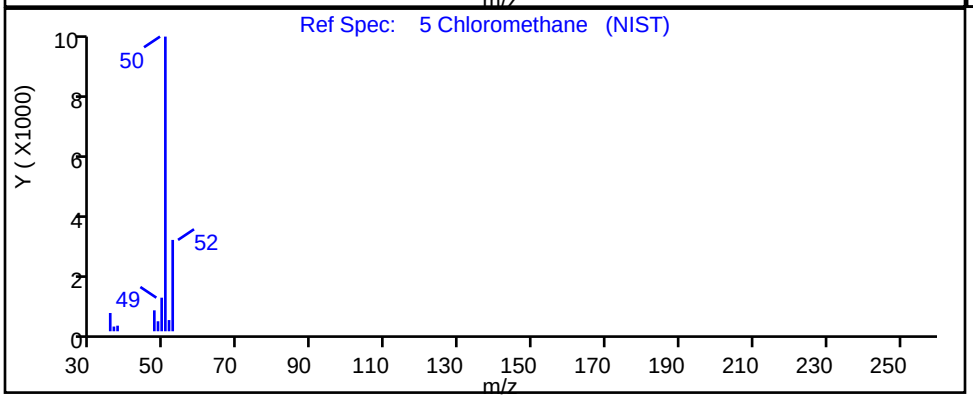
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.46 | 50.00 | 1389 | 0.030201 |
| 3.47 | 52.00 | 438 | |

Reviewer: guazzonig, 06-Dec-2018 13:38:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

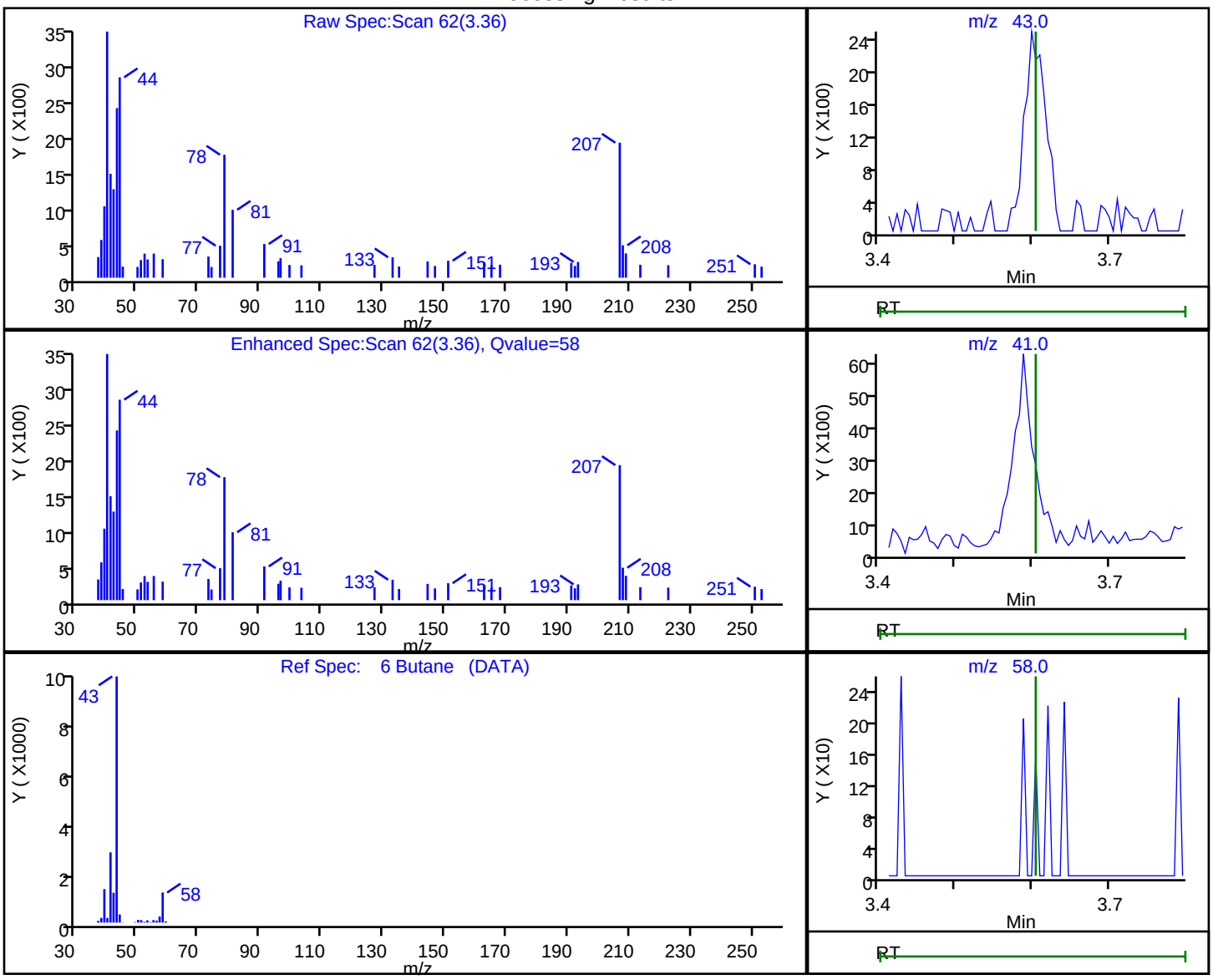
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.36 | 43.00 | 4466 | 0.072139 |
| 3.37 | 41.00 | 2670 | |
| 3.60 | 58.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:25:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

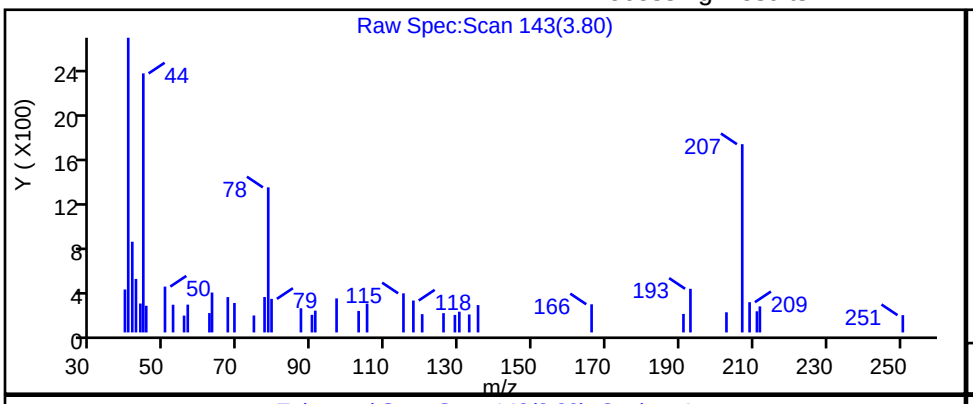
User Disabled Compound Report

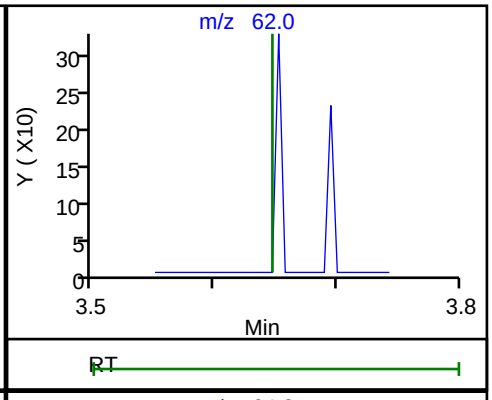
TestAmerica Burlington

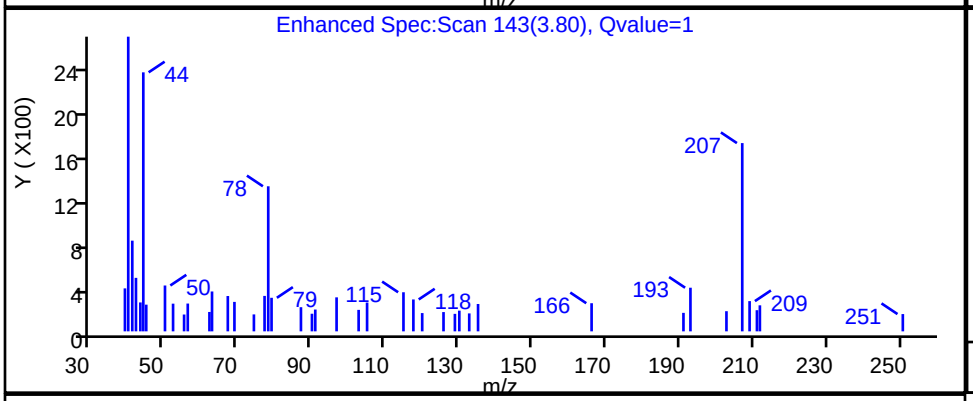
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

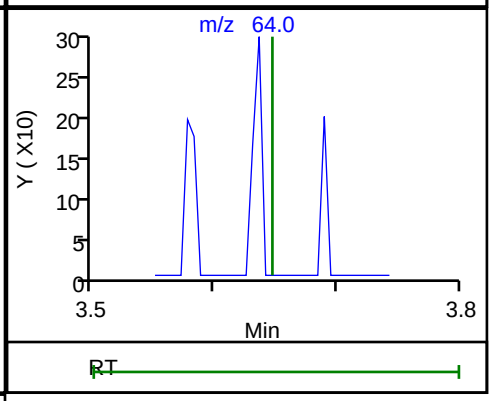
## 7 Vinyl chloride, CAS: 75-01-4

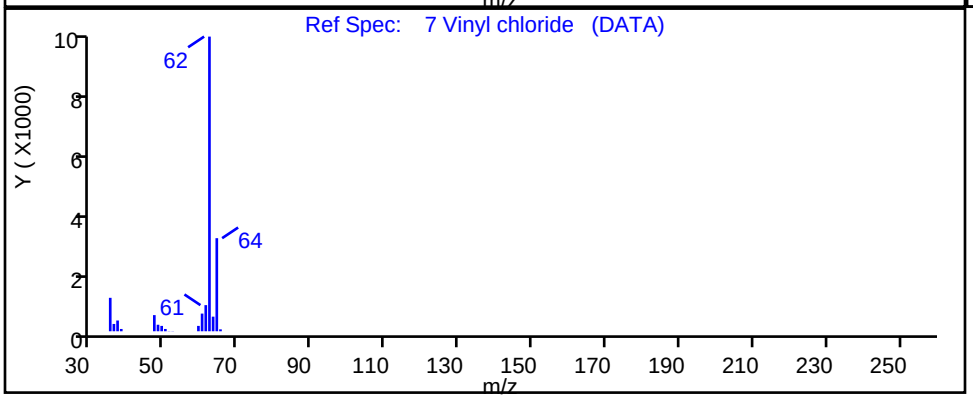
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.80 | 62.00 | 109 | 0.001969 |
| 3.65 | 64.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:39:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

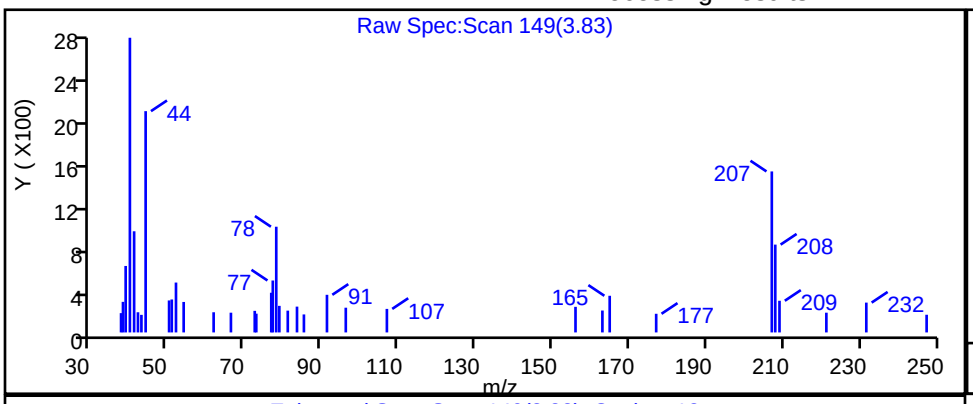
User Disabled Compound Report

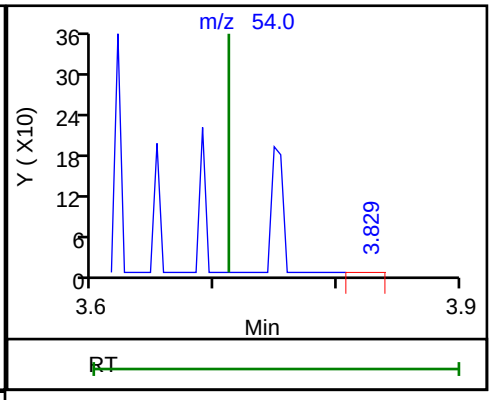
TestAmerica Burlington

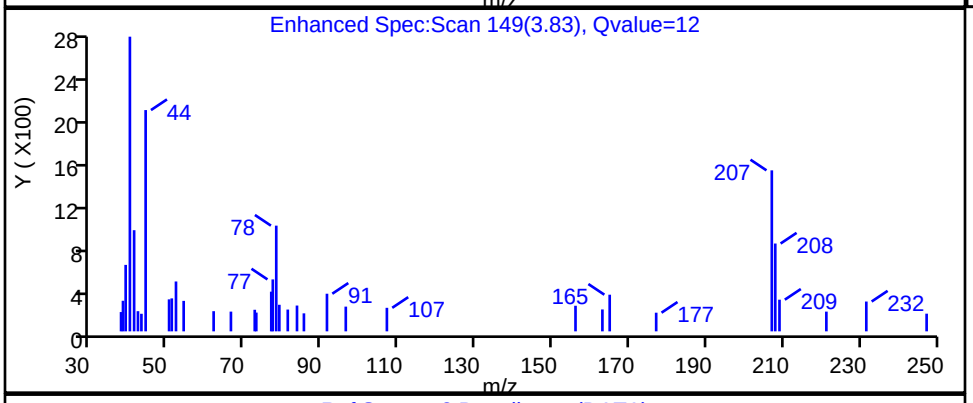
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

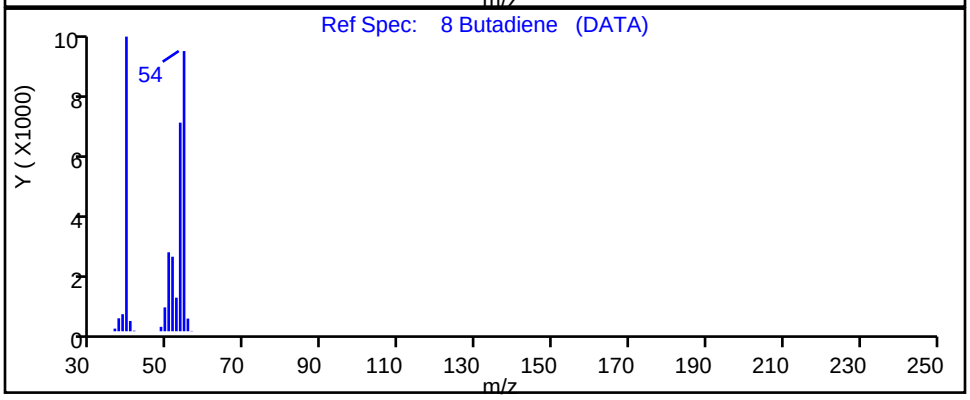
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.83 | 54.00 | 277 | 0.008042 |

Reviewer: bunmaa, 07-Dec-2018 09:25:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

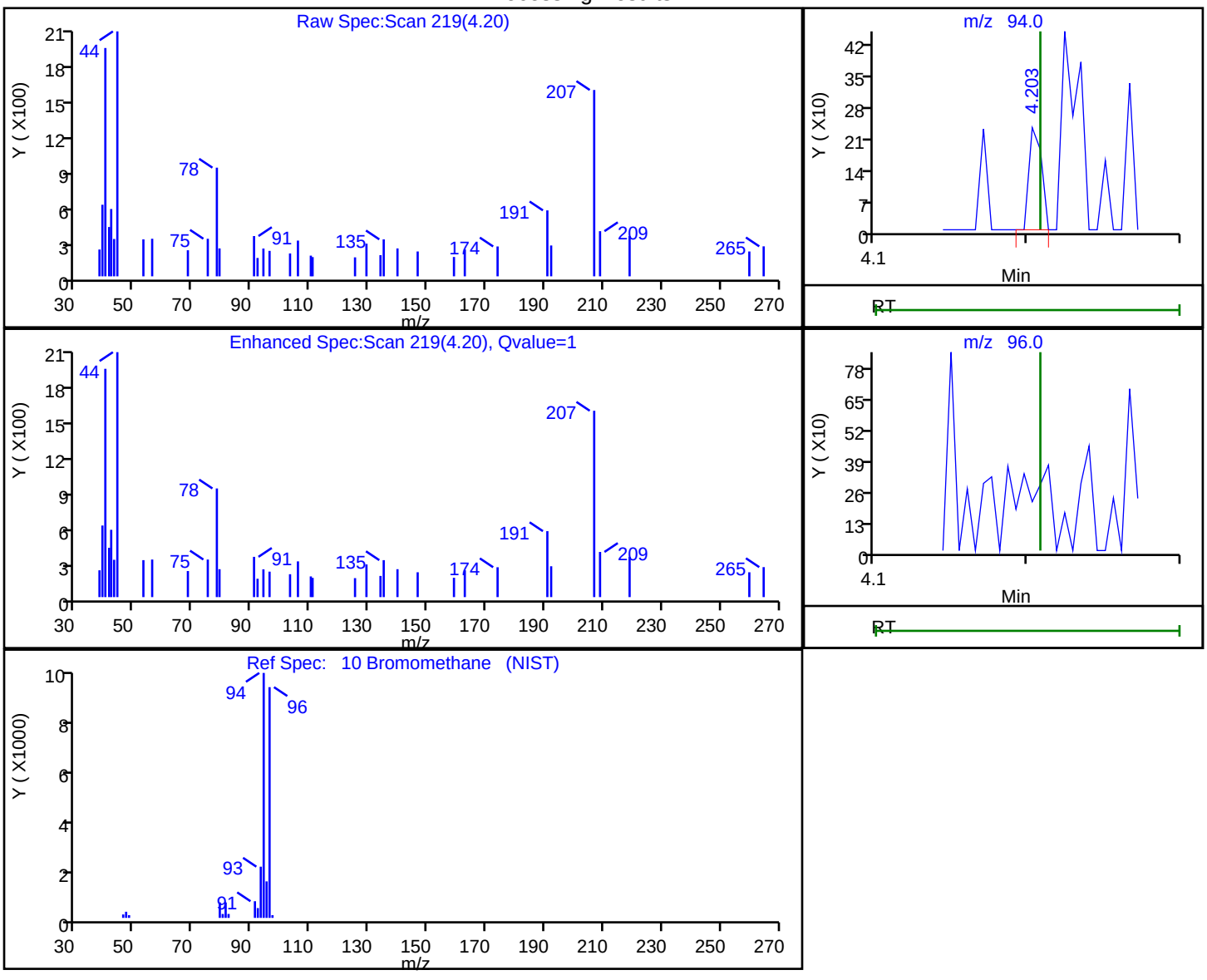
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 10 Bromomethane, CAS: 74-83-9

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.20 | 94.00 | 130 | 0.002034 |
| 4.21 | 96.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:25:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

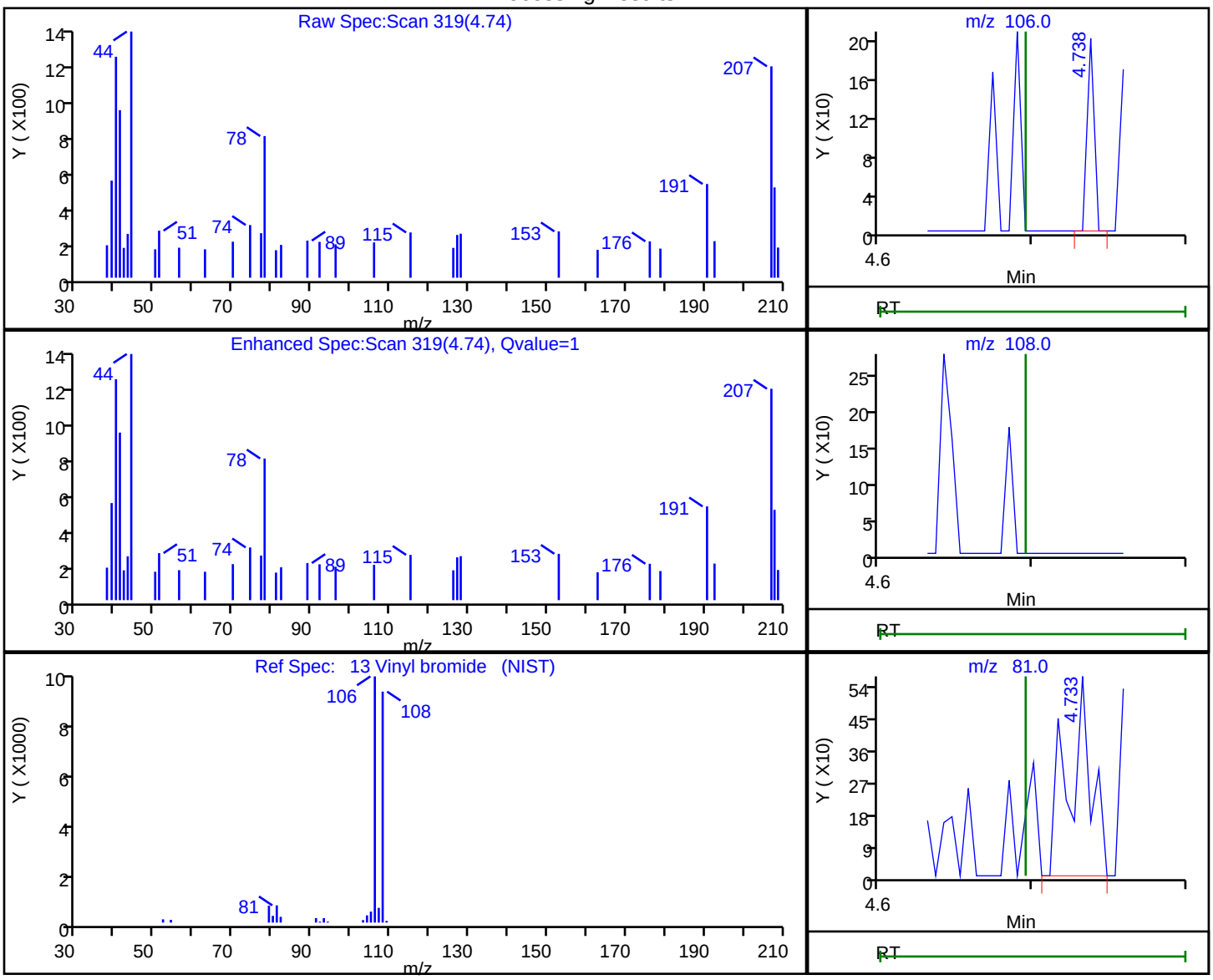
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.74 | 106.00 | 64 | 0.001013 |
| 4.70 | 108.00 | 0 | |
| 4.73 | 81.00 | 594 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

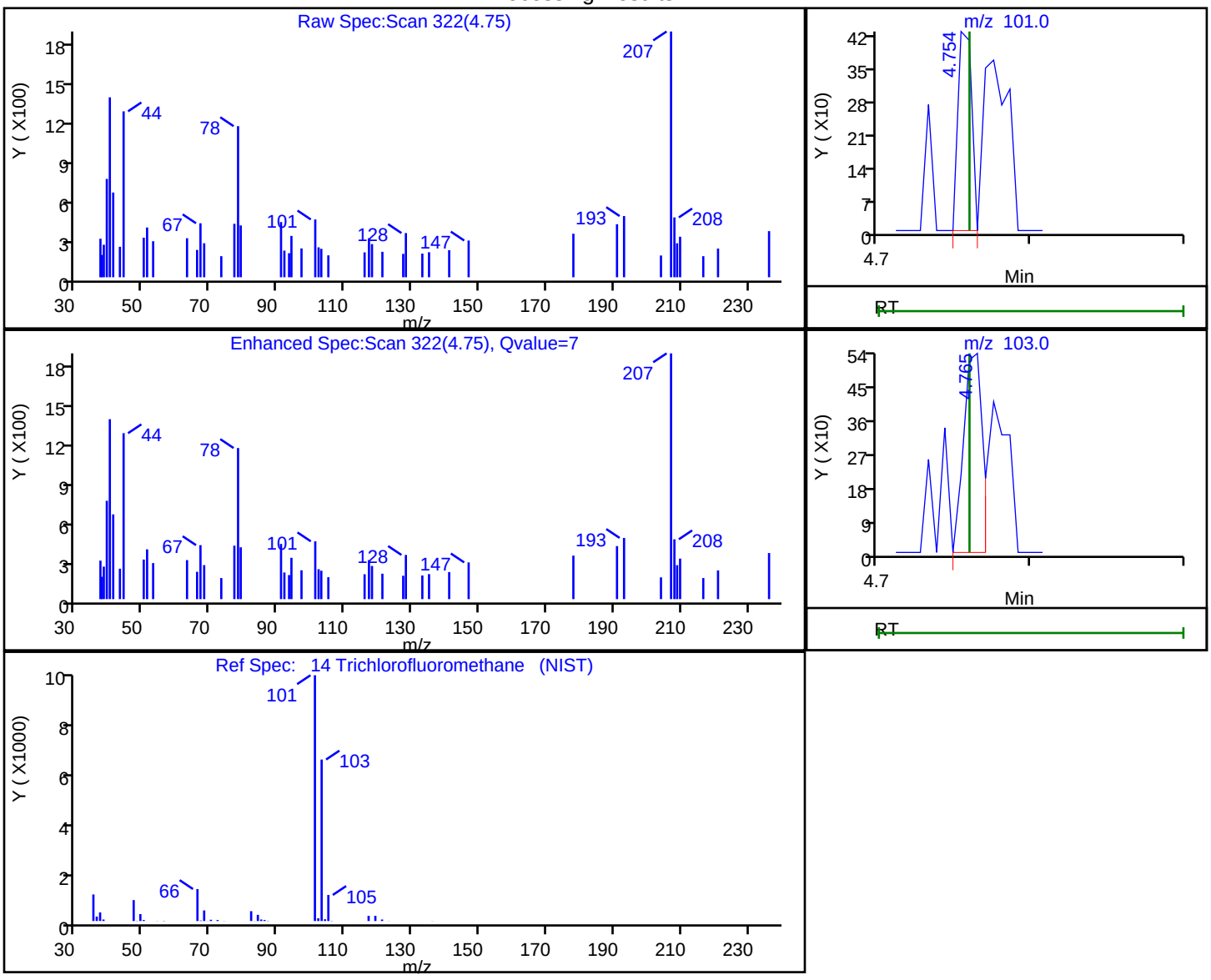
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.75 | 101.00 | 266 | 0.001424 |
| 4.76 | 103.00 | 468 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

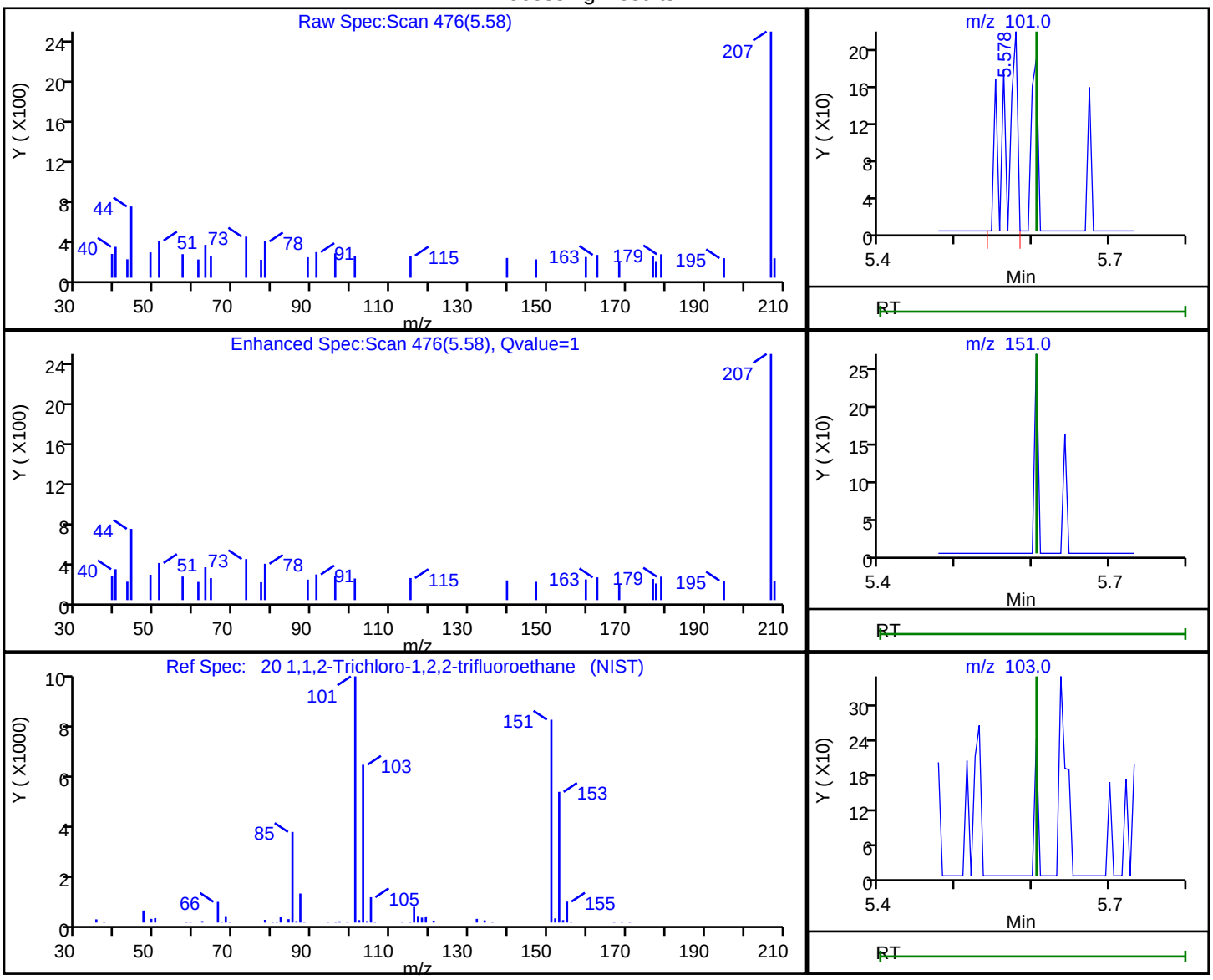
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.58 | 101.00 | 228 | 0.001733 |
| 5.60 | 151.00 | 0 | |
| 5.60 | 103.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

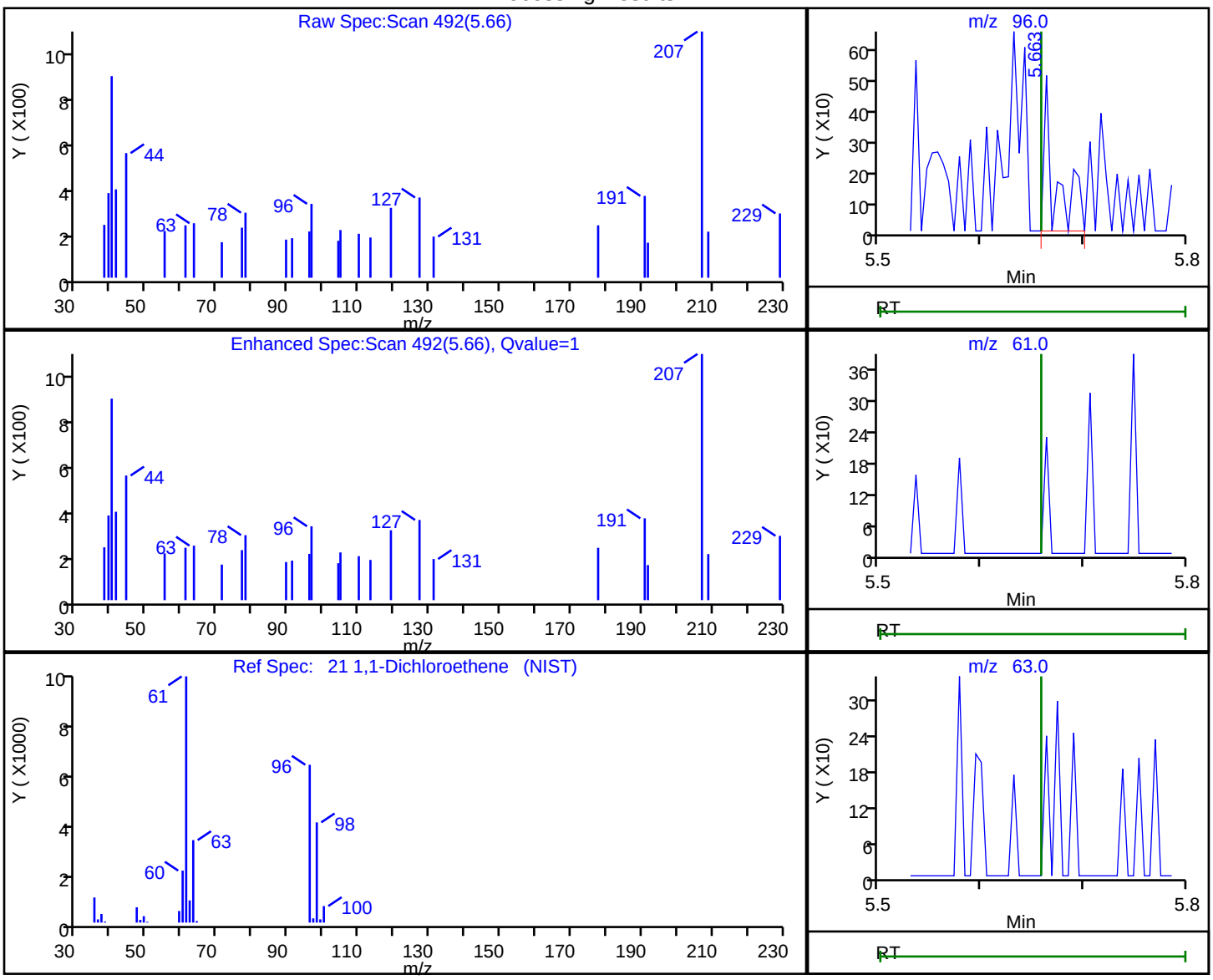
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.66 | 96.00 | 388 | 0.006699 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:39:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

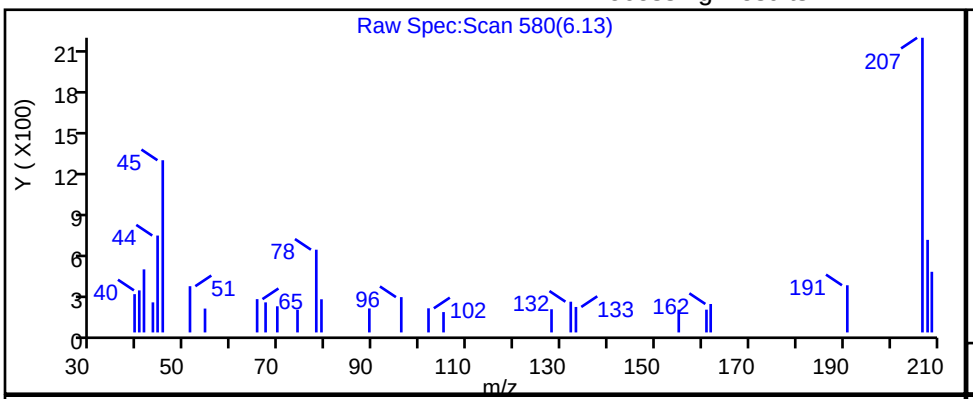
User Disabled Compound Report

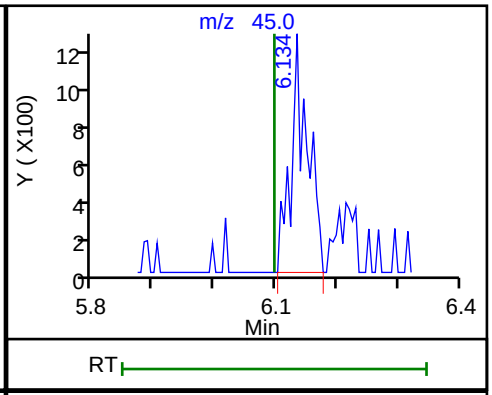
TestAmerica Burlington

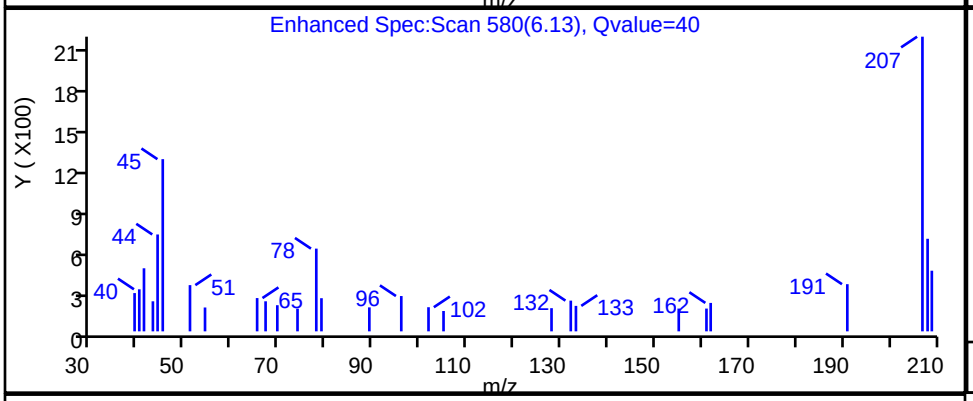
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

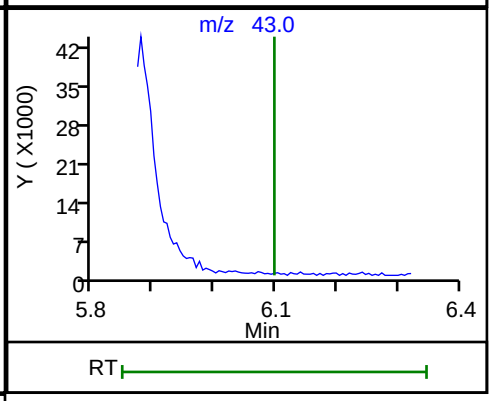
## 24 Isopropyl alcohol, CAS: 67-63-0

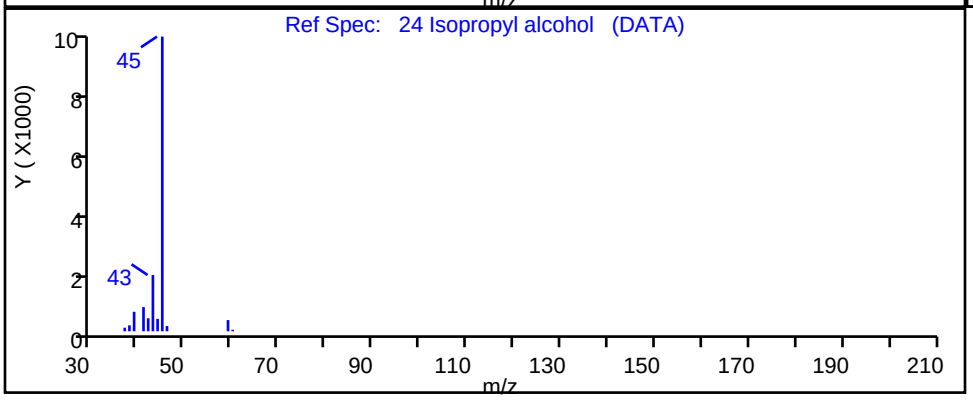
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.13 | 45.00 | 2426 | 0.044511 |
| 6.10 | 43.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

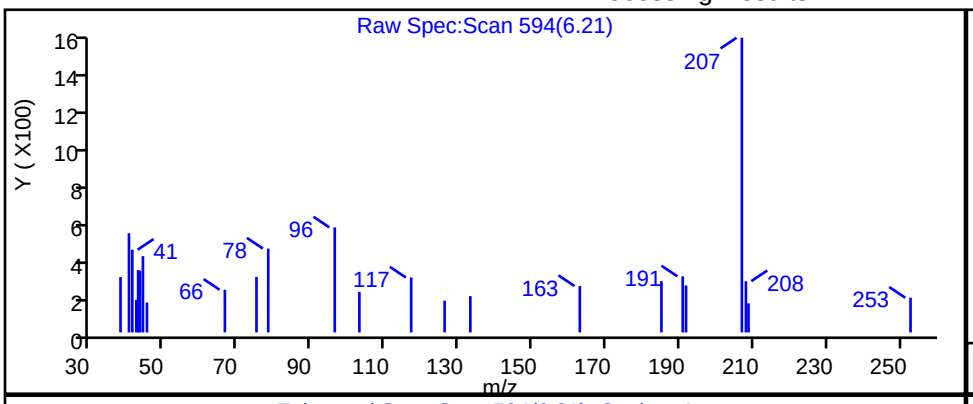
User Disabled Compound Report

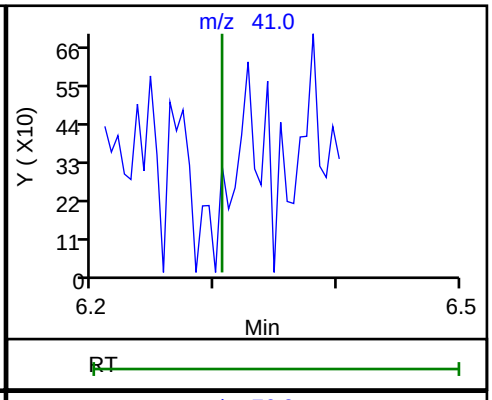
TestAmerica Burlington

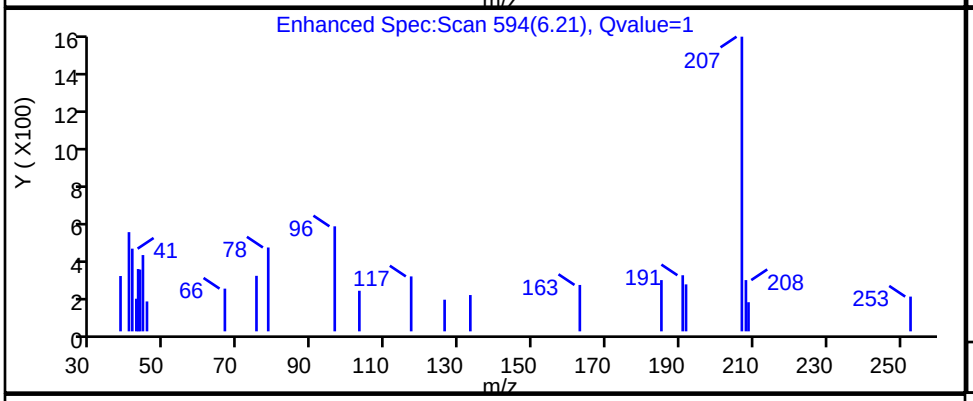
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

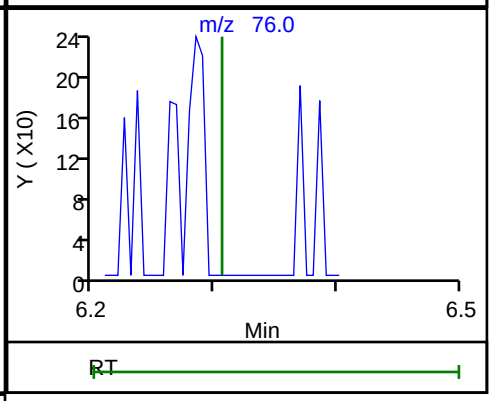
## 25 3-Chloro-1-propene, CAS: 107-05-1

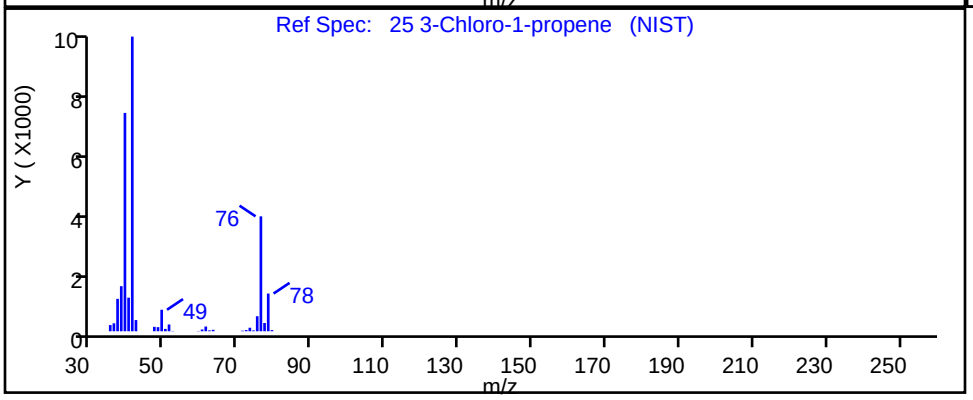
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.21 | 41.00 | 640 | 0.014853 |
| 6.31 | 76.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

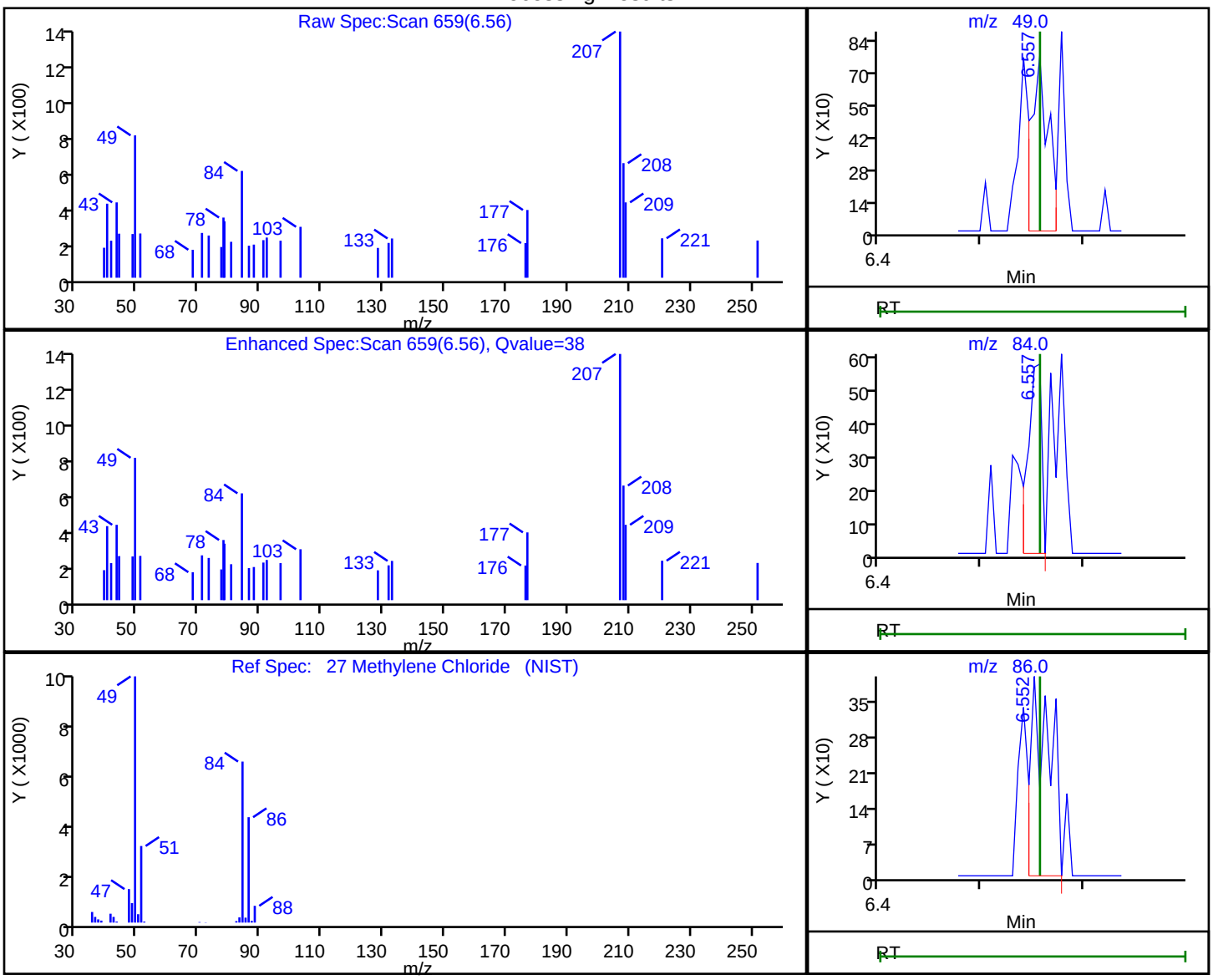
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.56 | 49.00 | 910 | 0.017411 |
| 6.56 | 84.00 | 537 | |
| 6.55 | 86.00 | 522 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

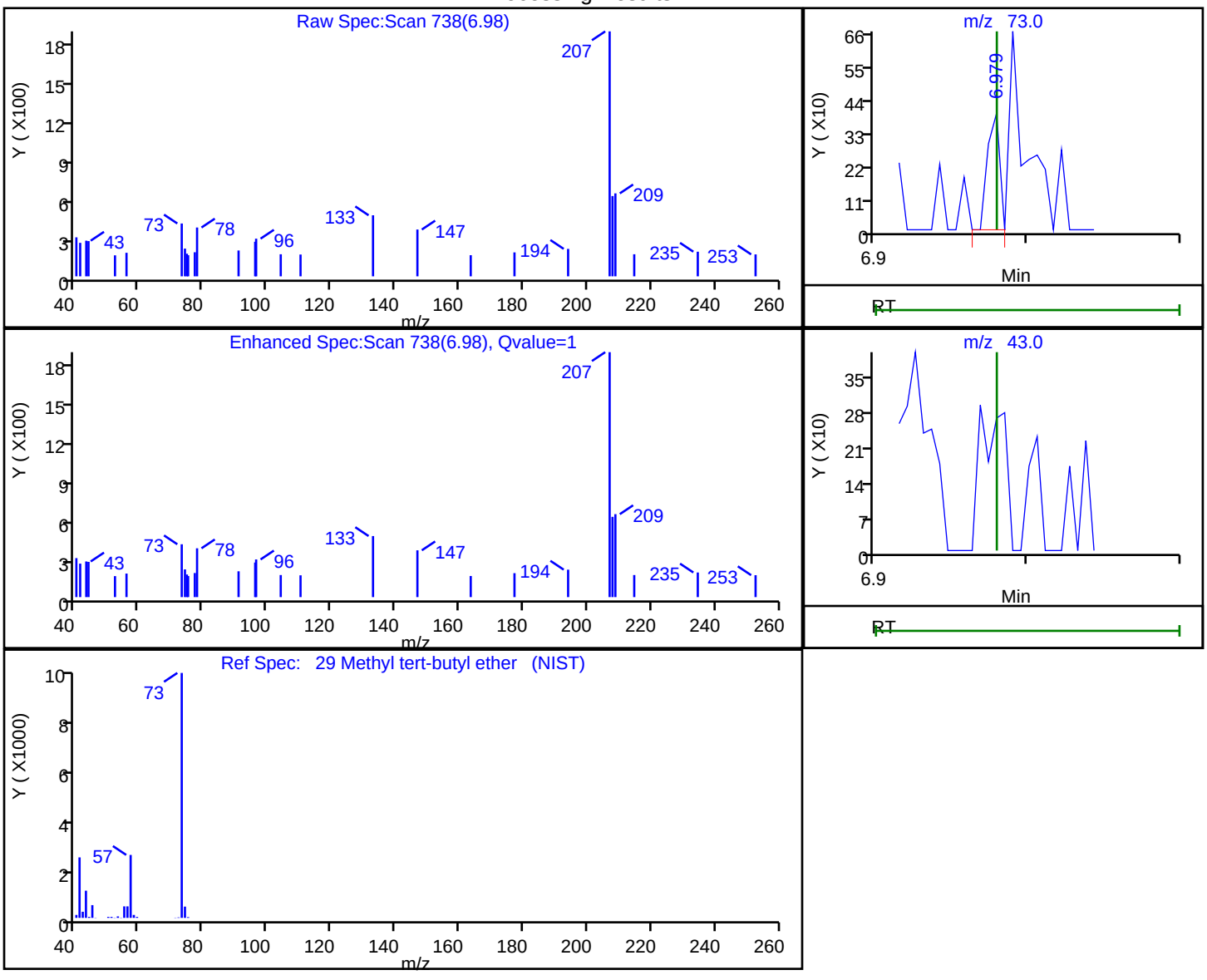
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.98 | 73.00 | 219 | 0.001945 |
| 6.98 | 43.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

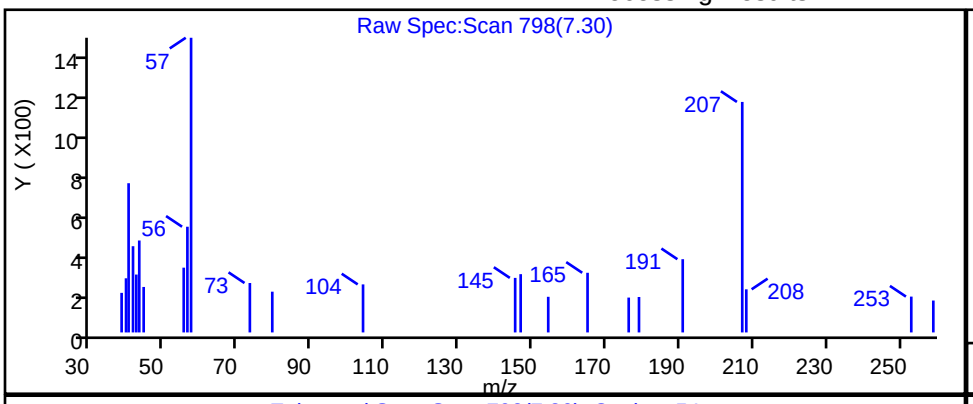
User Disabled Compound Report

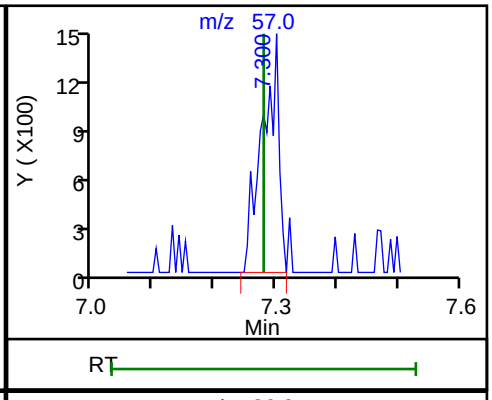
TestAmerica Burlington

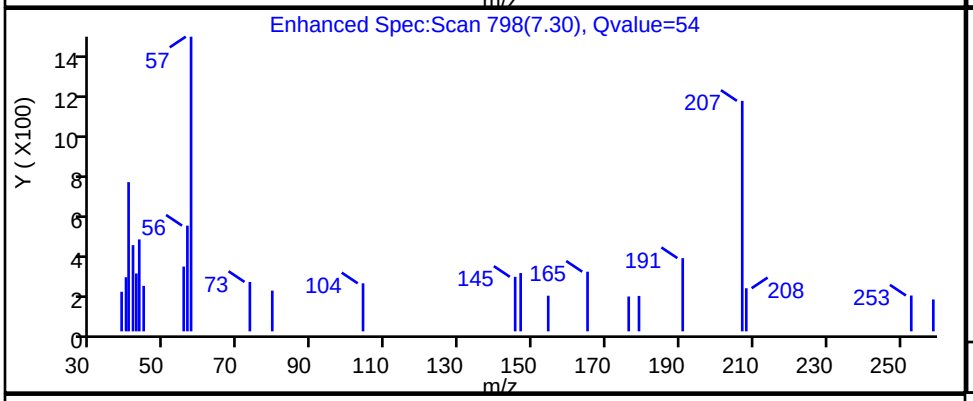
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

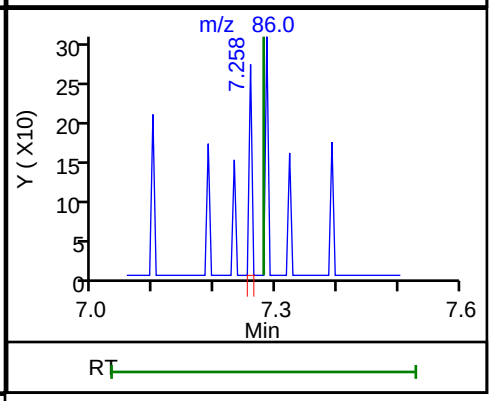
## 33 Hexane, CAS: 110-54-3

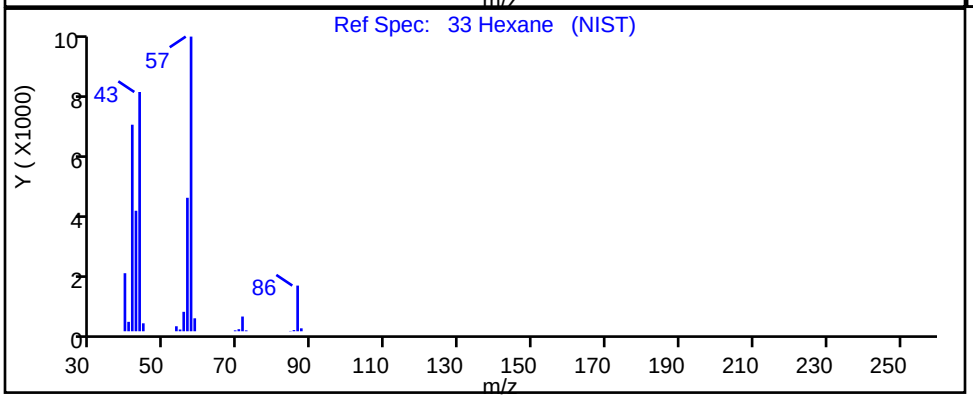
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.30 | 57.00 | 2859 | 0.051115 |
| 7.26 | 86.00 | 88 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

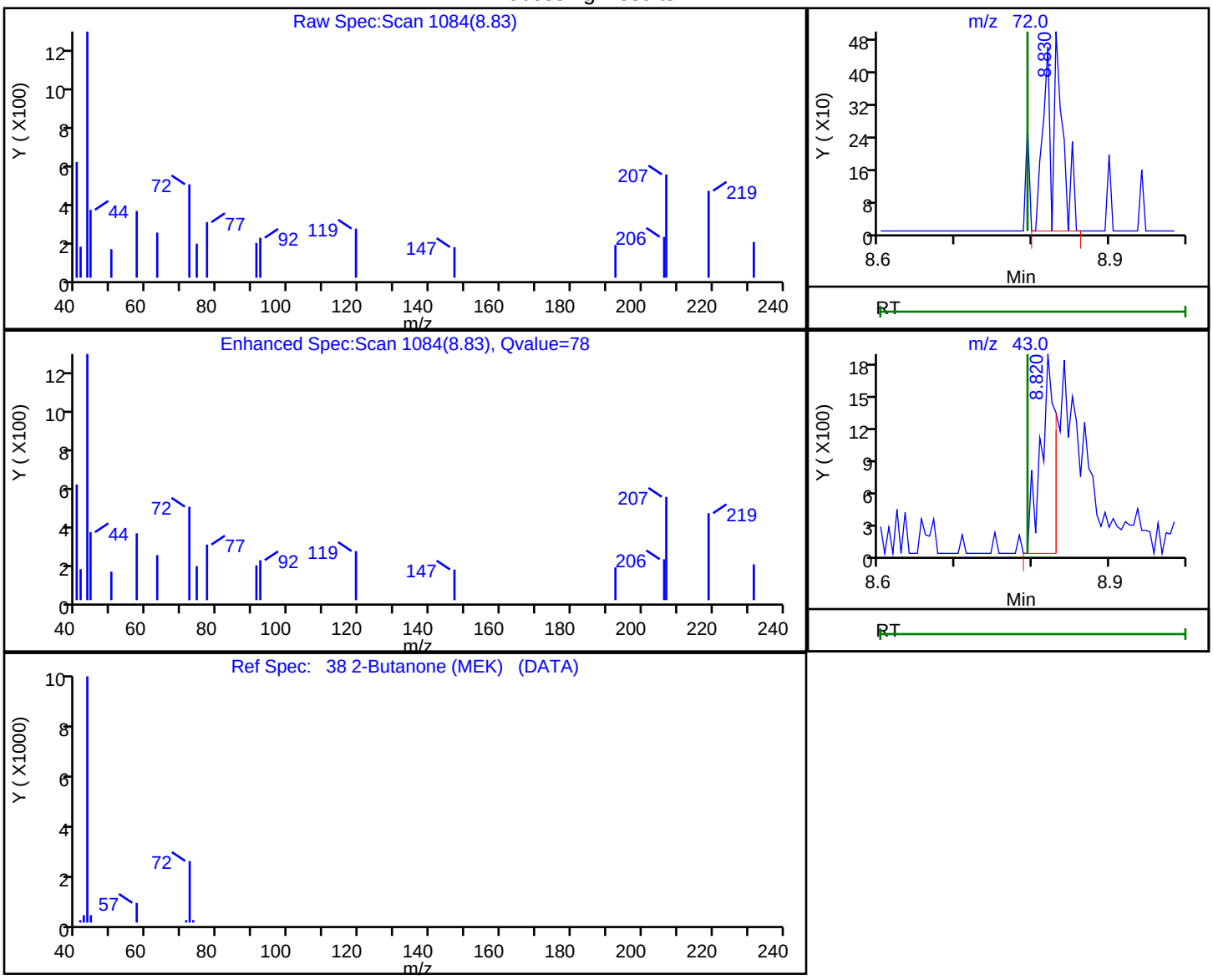
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 38 2-Butanone (MEK), CAS: 78-93-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.83 | 72.00 | 687 | 0.038816 |
| 8.82 | 43.00 | 2366 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

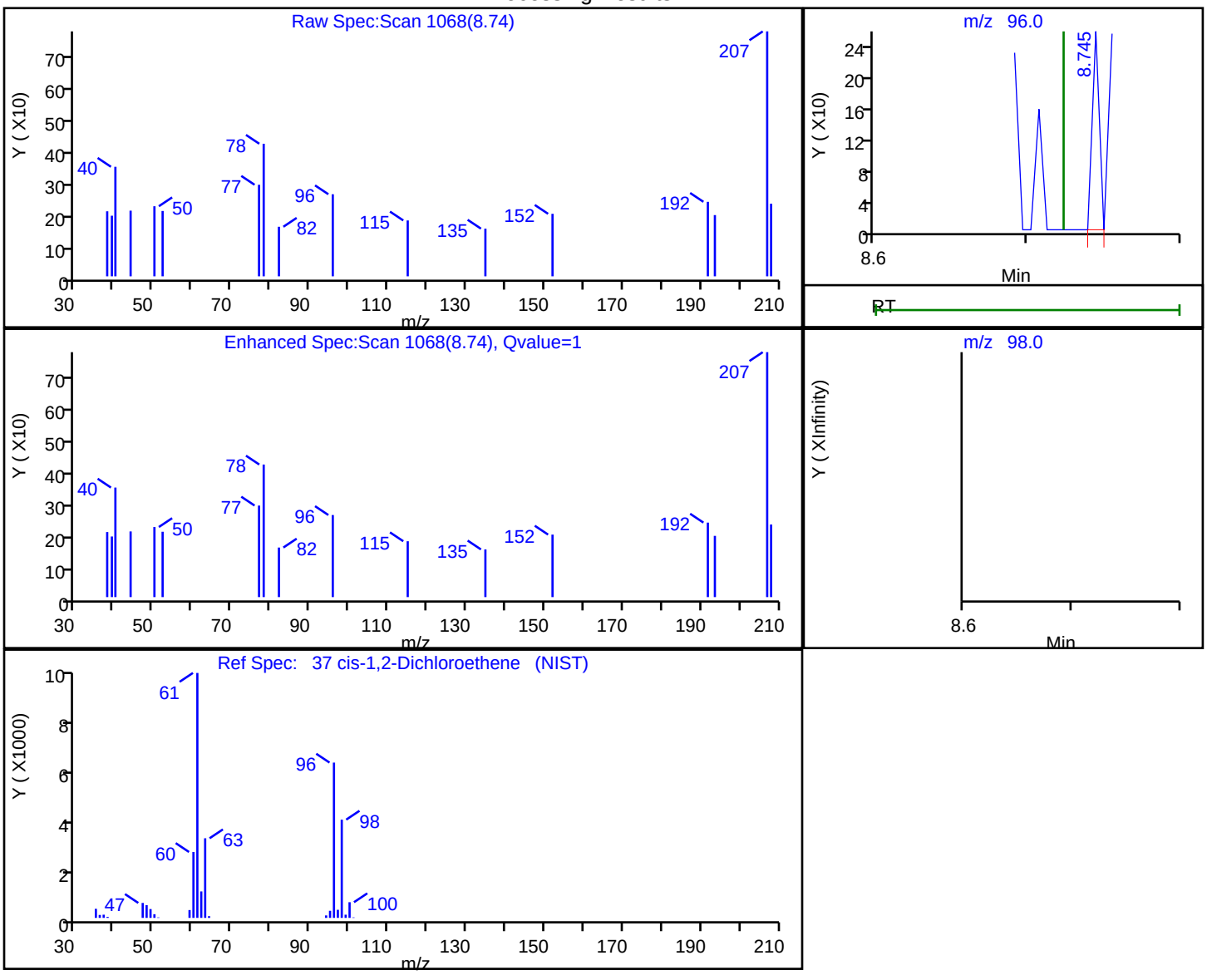
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.74 | 96.00 | 83 | 0.001513 |
| 8.72 | 98.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

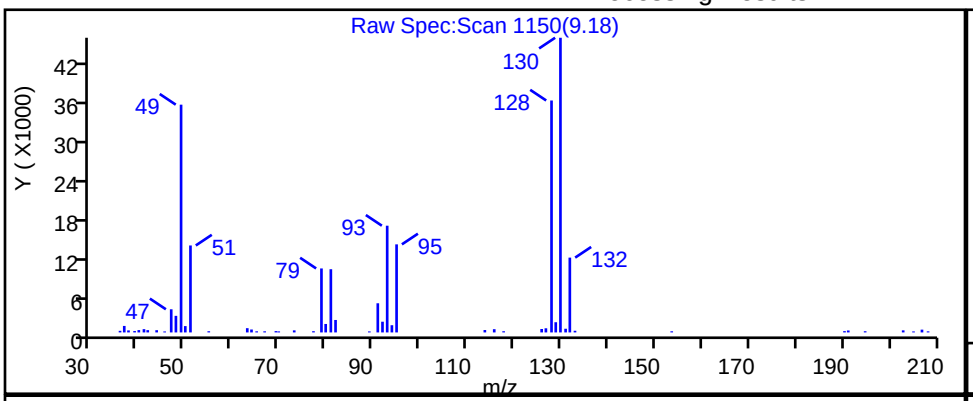
User Disabled Compound Report

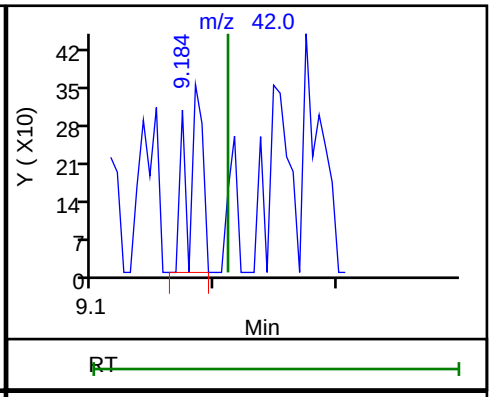
TestAmerica Burlington

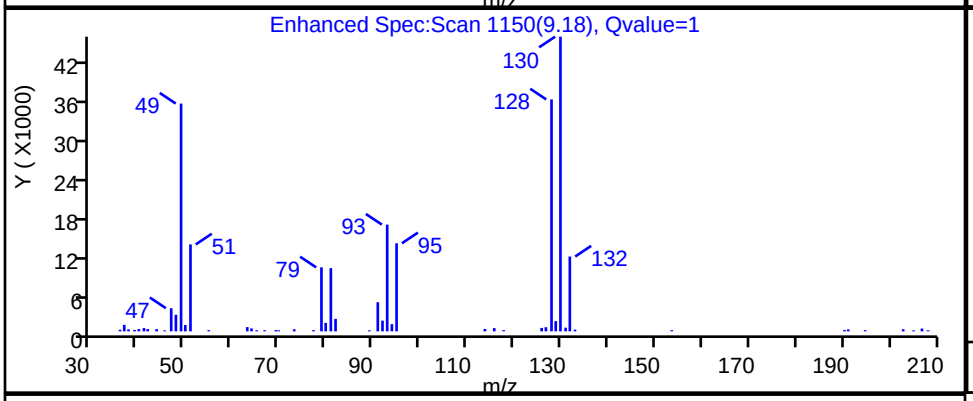
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

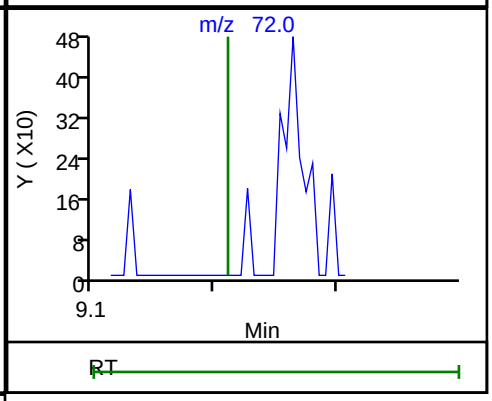
## 41 Tetrahydrofuran, CAS: 109-99-9

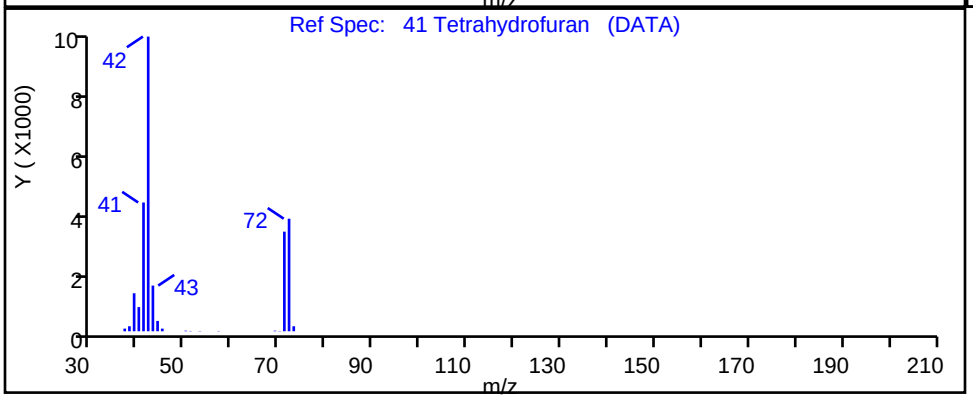
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.18 | 42.00 | 302 | 0.008859 |
| 9.21 | 72.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:26:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

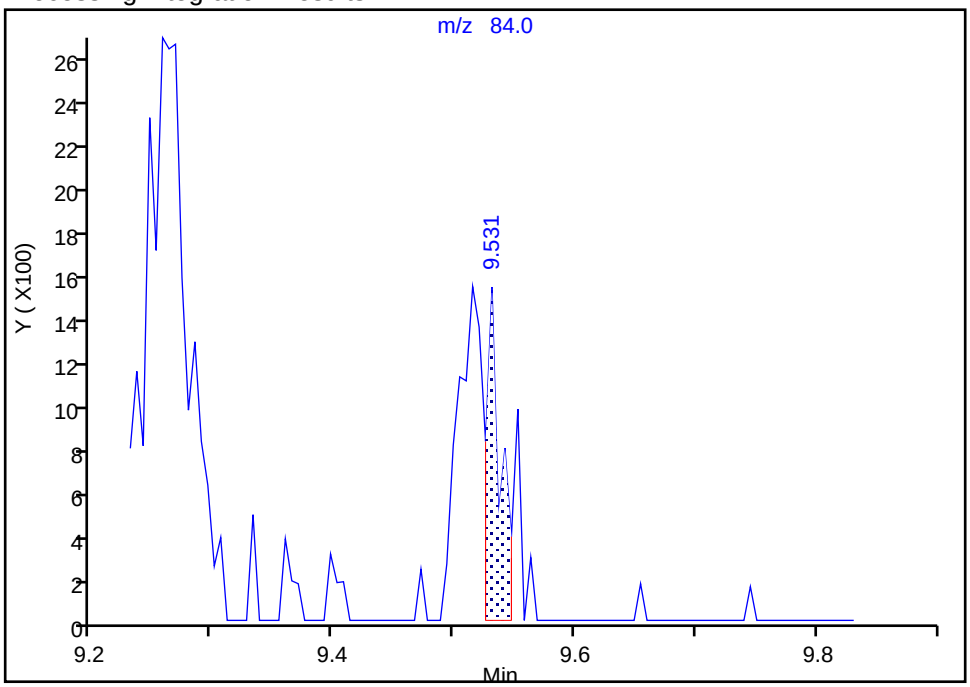
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

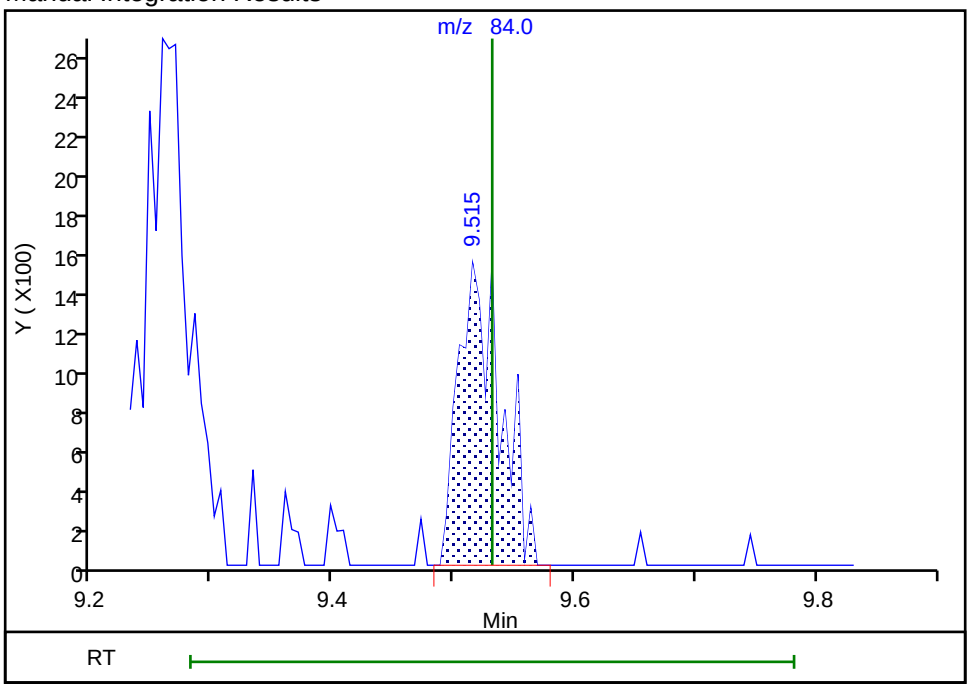
Processing Integration Results

RT: 9.53
Area: 1257
Amount: 0.018326
Amount Units: ppb v/v




Manual Integration Results

RT: 9.52
Area: 3579
Amount: 0.052180
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:39:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

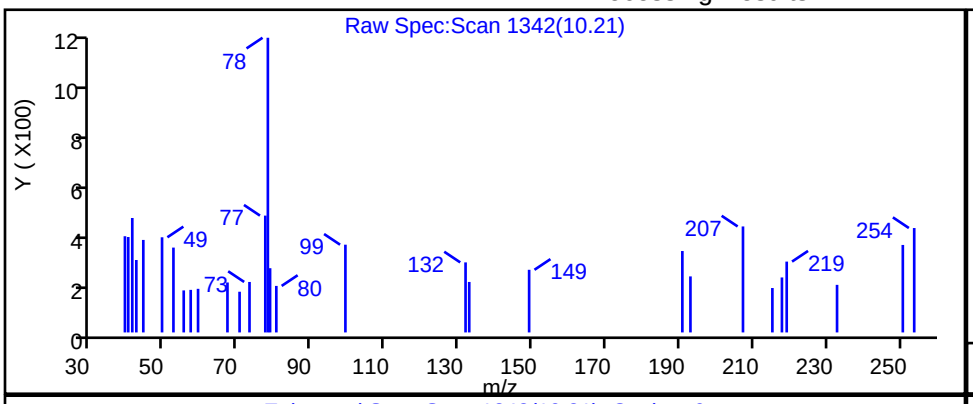
User Disabled Compound Report

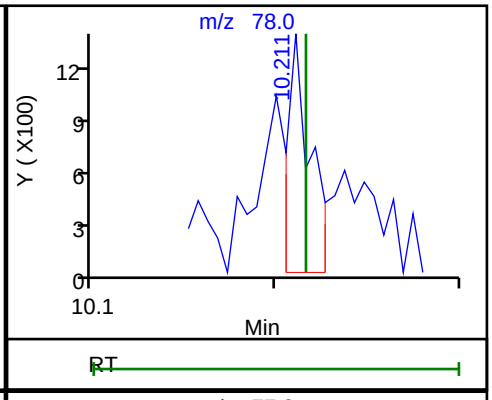
TestAmerica Burlington

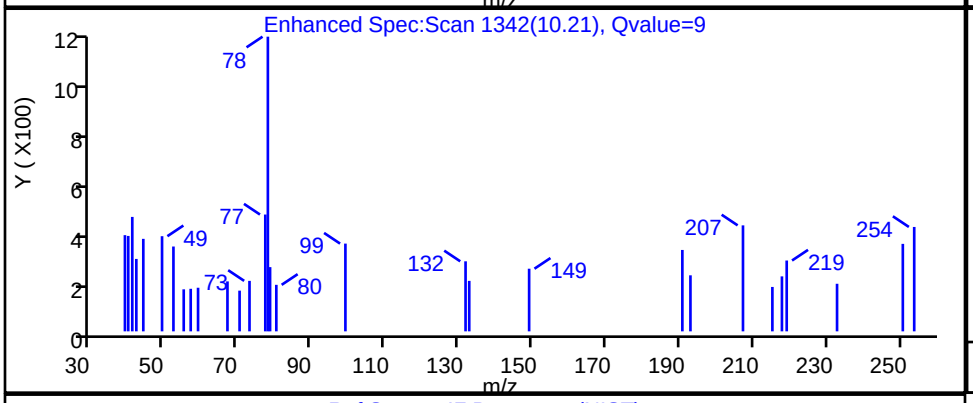
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

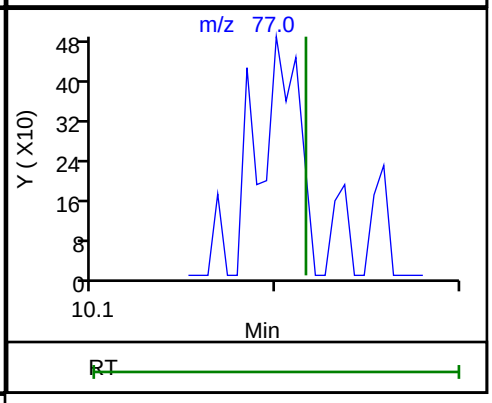
## 47 Benzene, CAS: 71-43-2

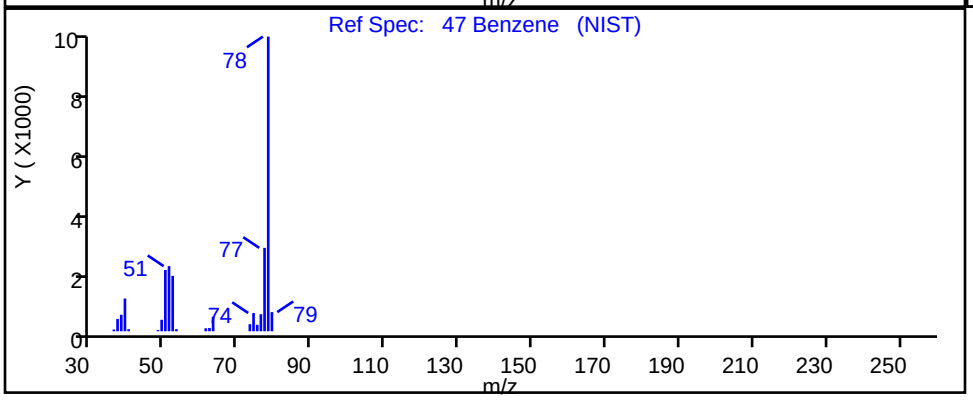
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.21 | 78.00 | 1200 | 0.007541 |
| 10.22 | 77.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:27:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

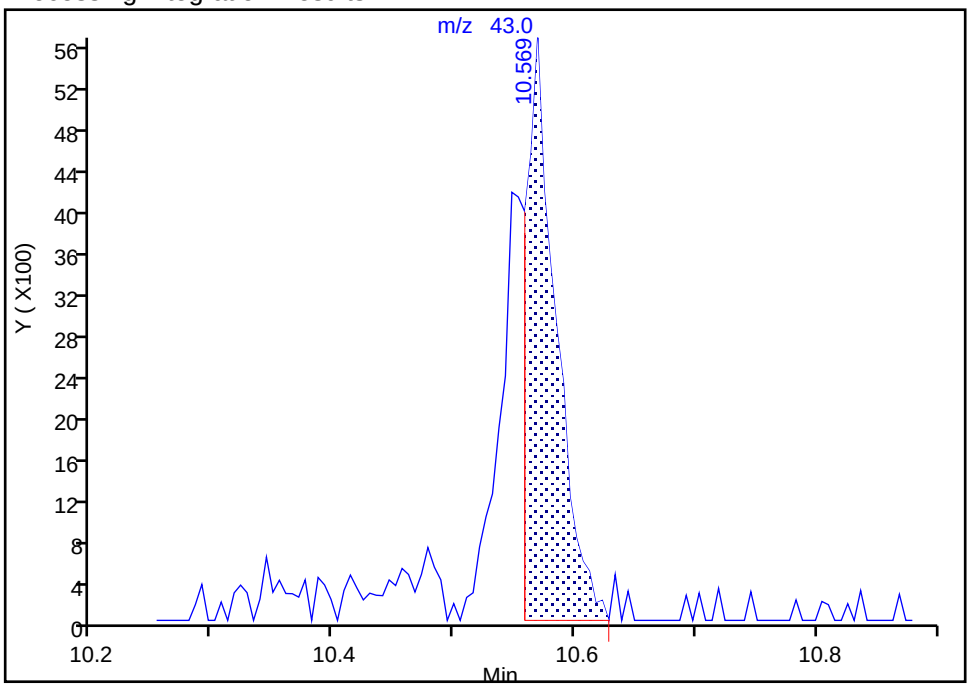
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5

Signal: 1

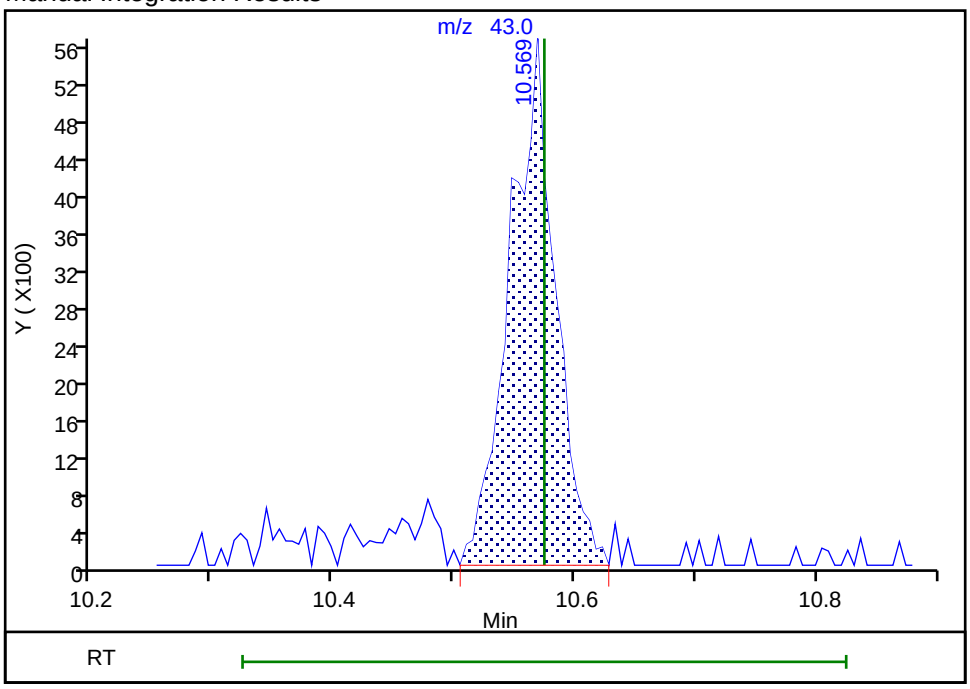
Processing Integration Results

RT: 10.57
Area: 9703
Amount: 0.118514
Amount Units: ppb v/v




Manual Integration Results

RT: 10.57
Area: 14803
Amount: 0.180806
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:39:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

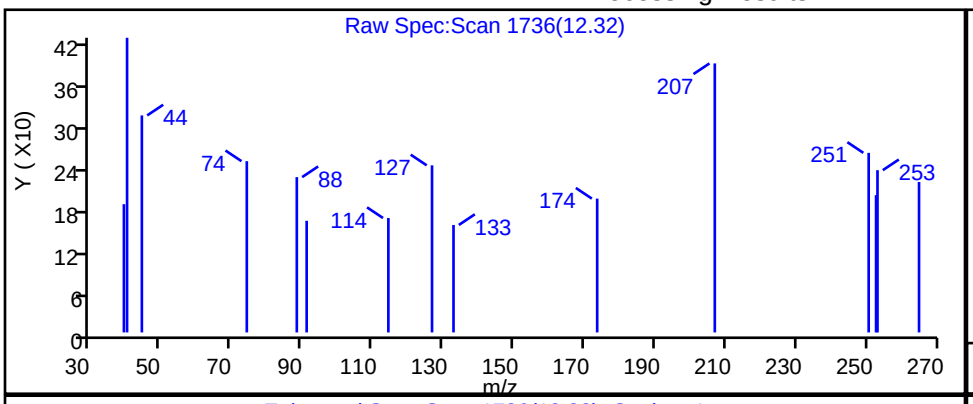
User Disabled Compound Report

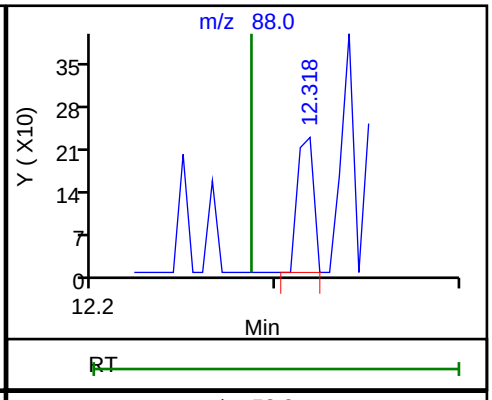
TestAmerica Burlington

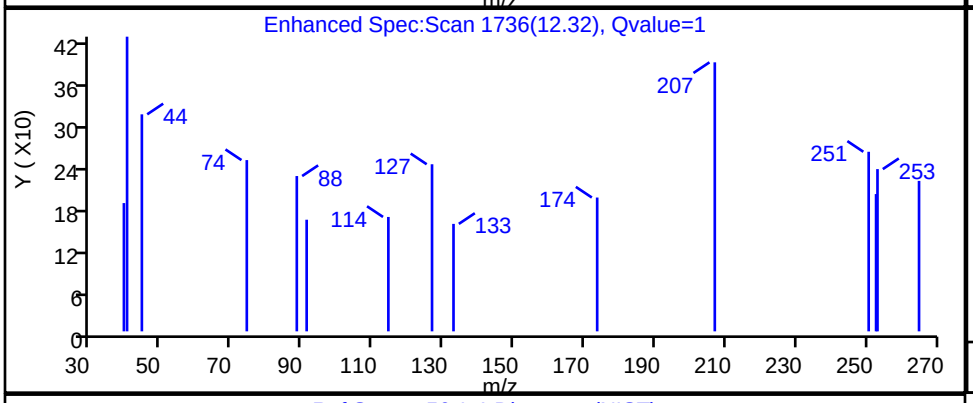
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

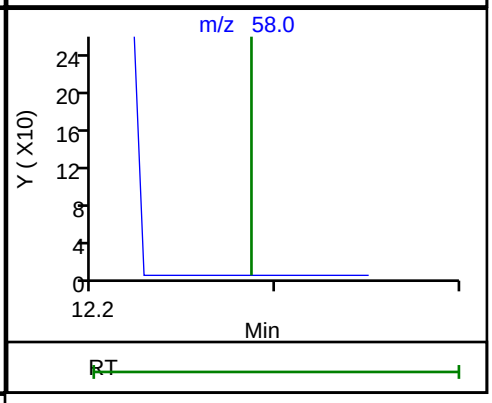
## 56 1,4-Dioxane, CAS: 123-91-1

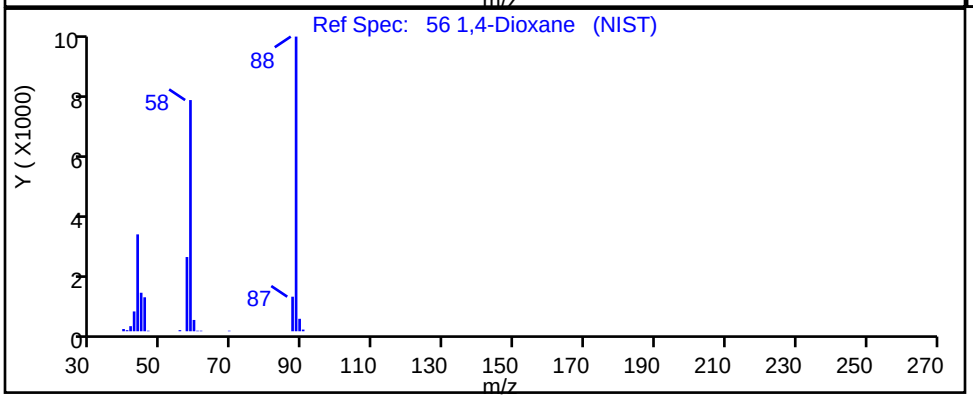
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.32 | 88.00 | 138 | 0.004718 |
| 12.29 | 58.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:27:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

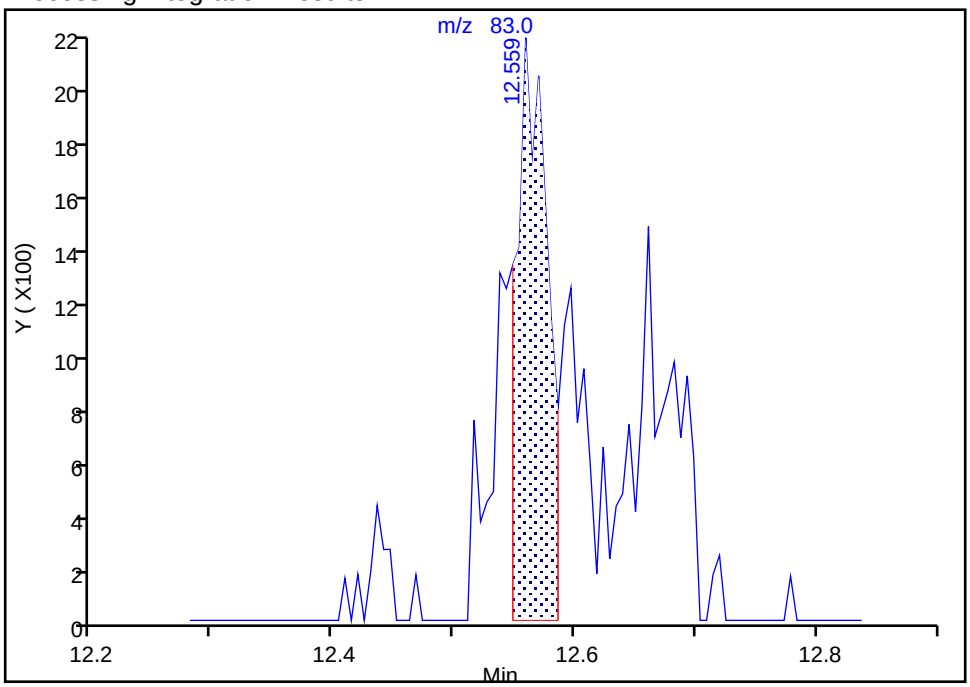
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

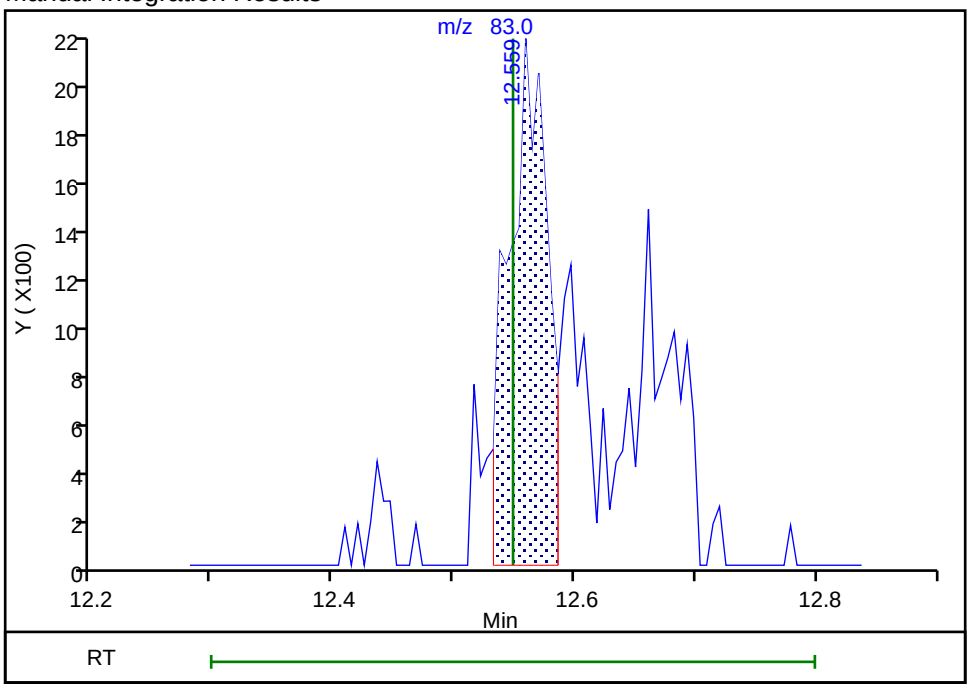
Processing Integration Results

RT: 12.56
Area: 3790
Amount: 0.023437
Amount Units: ppb v/v




Manual Integration Results

RT: 12.56
Area: 4736
Amount: 0.029288
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:27:58

Audit Action: Manually Integrated Audit Reason: Assign Peak

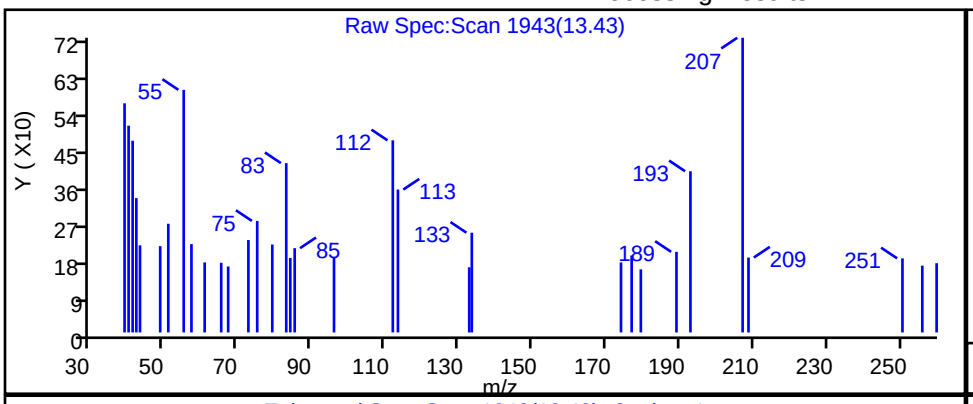
User Disabled Compound Report

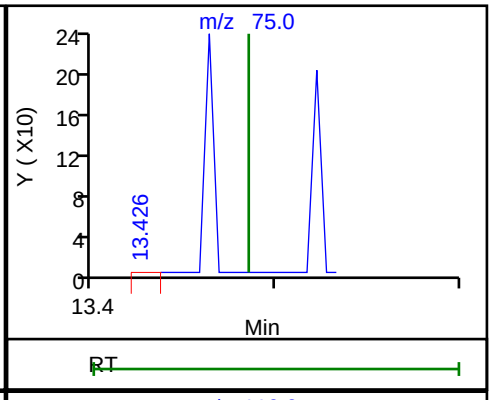
TestAmerica Burlington

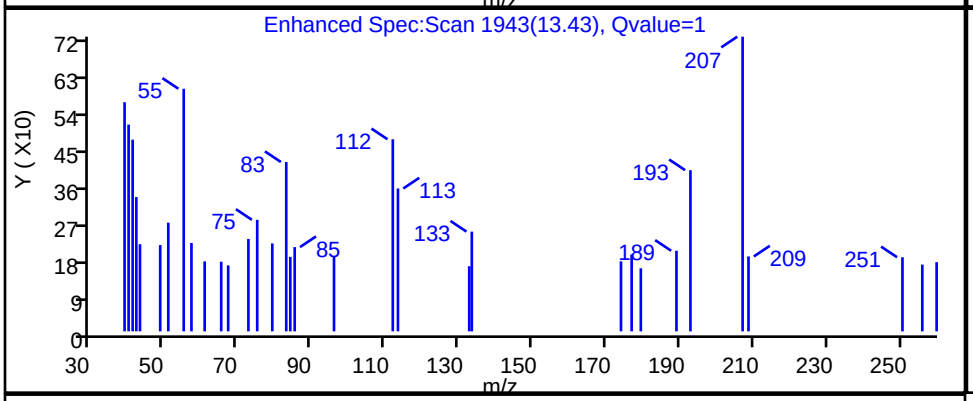
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

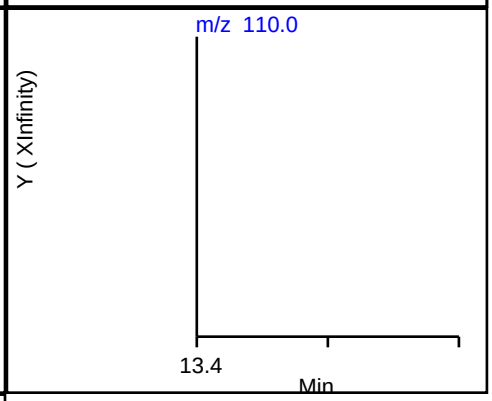
## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

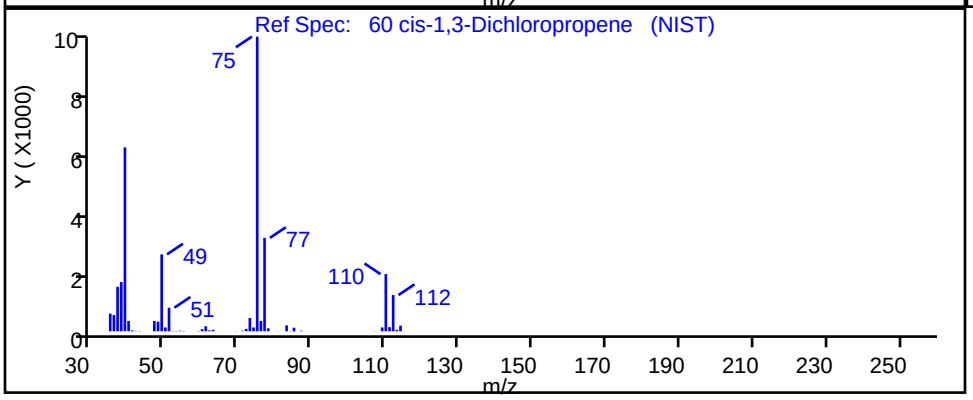
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.43 | 75.00 | 149 | 0.001488 |
| 13.48 | 110.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:28:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

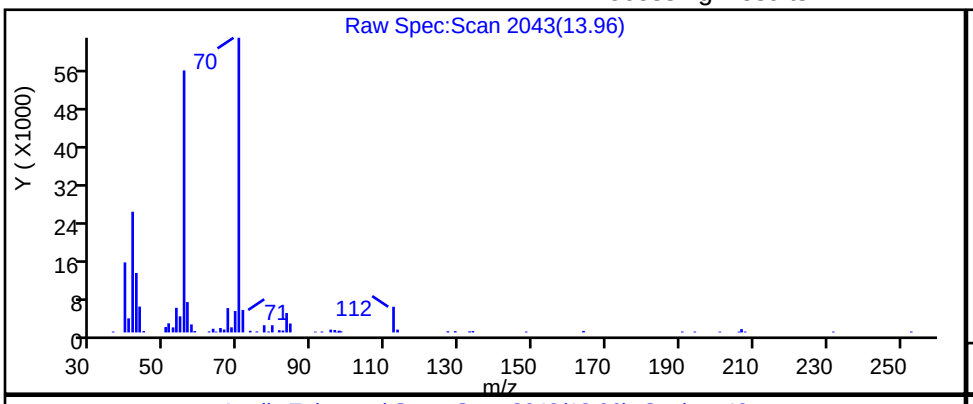
User Disabled Compound Report

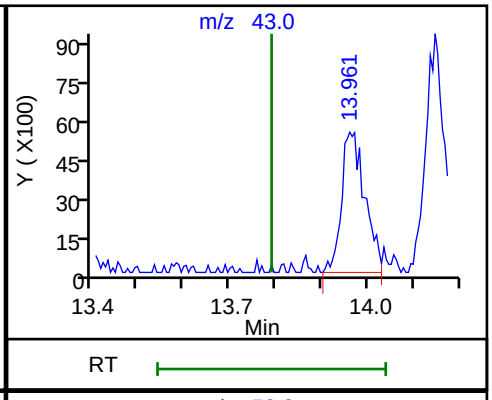
TestAmerica Burlington

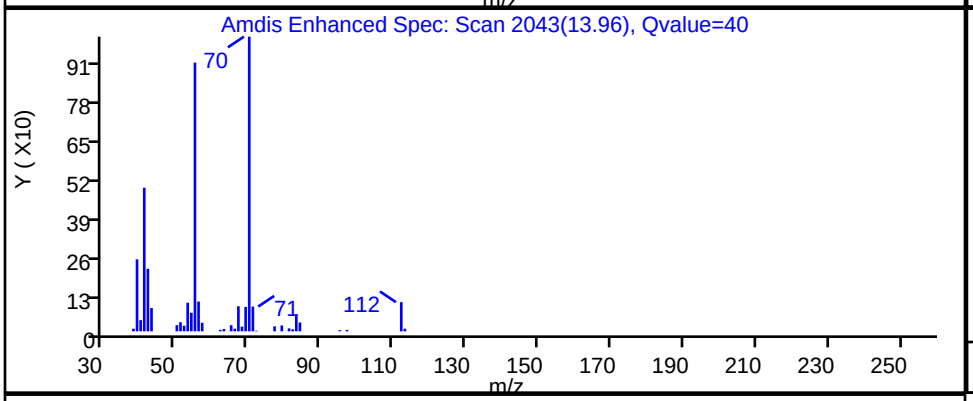
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

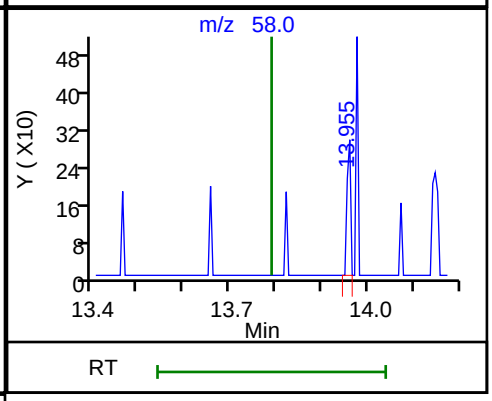
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

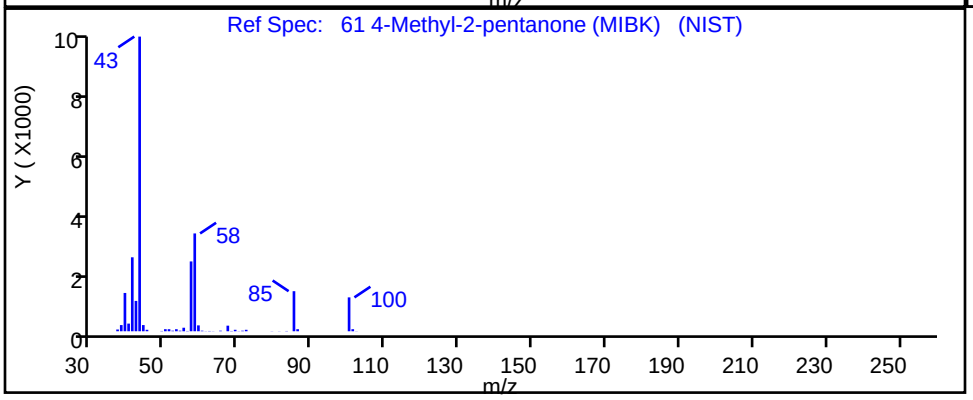
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.96 | 43.00 | 19485 | 0.188308 |
| 13.96 | 58.00 | 161 | |

Reviewer: bunmaa, 07-Dec-2018 09:28:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

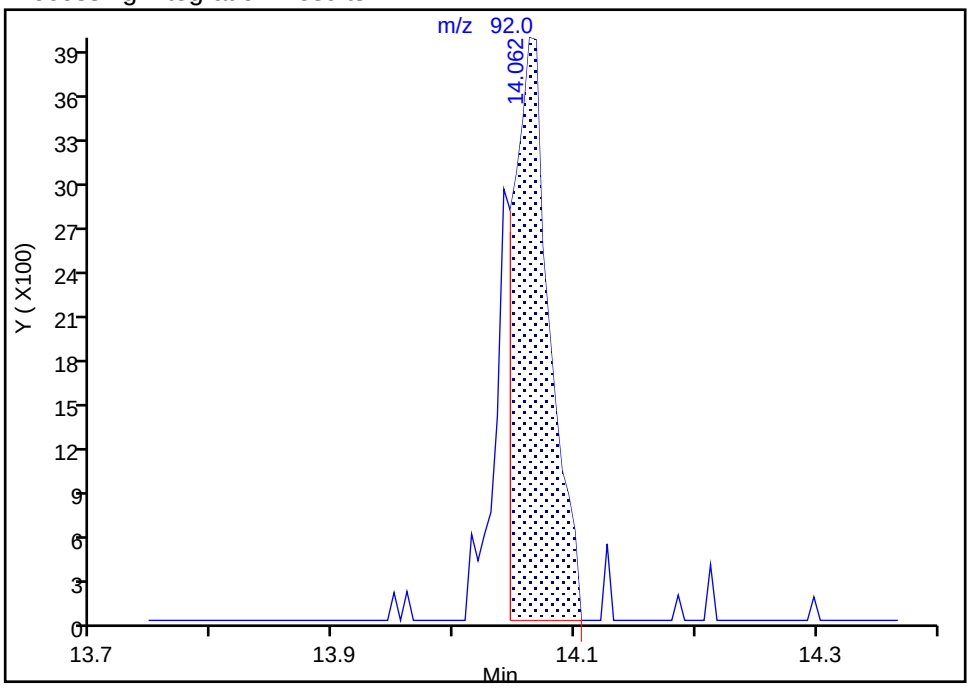
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3

Signal: 1

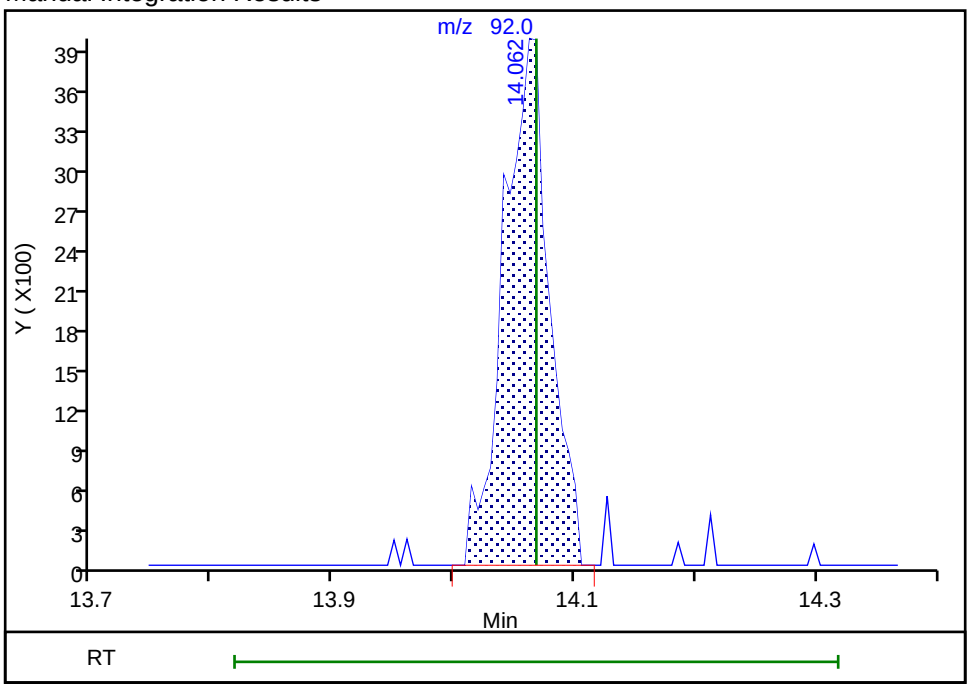
Processing Integration Results

RT: 14.06
Area: 8228
Amount: 0.072567
Amount Units: ppb v/v




Manual Integration Results

RT: 14.06
Area: 10357
Amount: 0.091343
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:39:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 07-Dec-2018 09:31:33 Chrom Revision: 2.3 21-Nov-2018 13:56:44

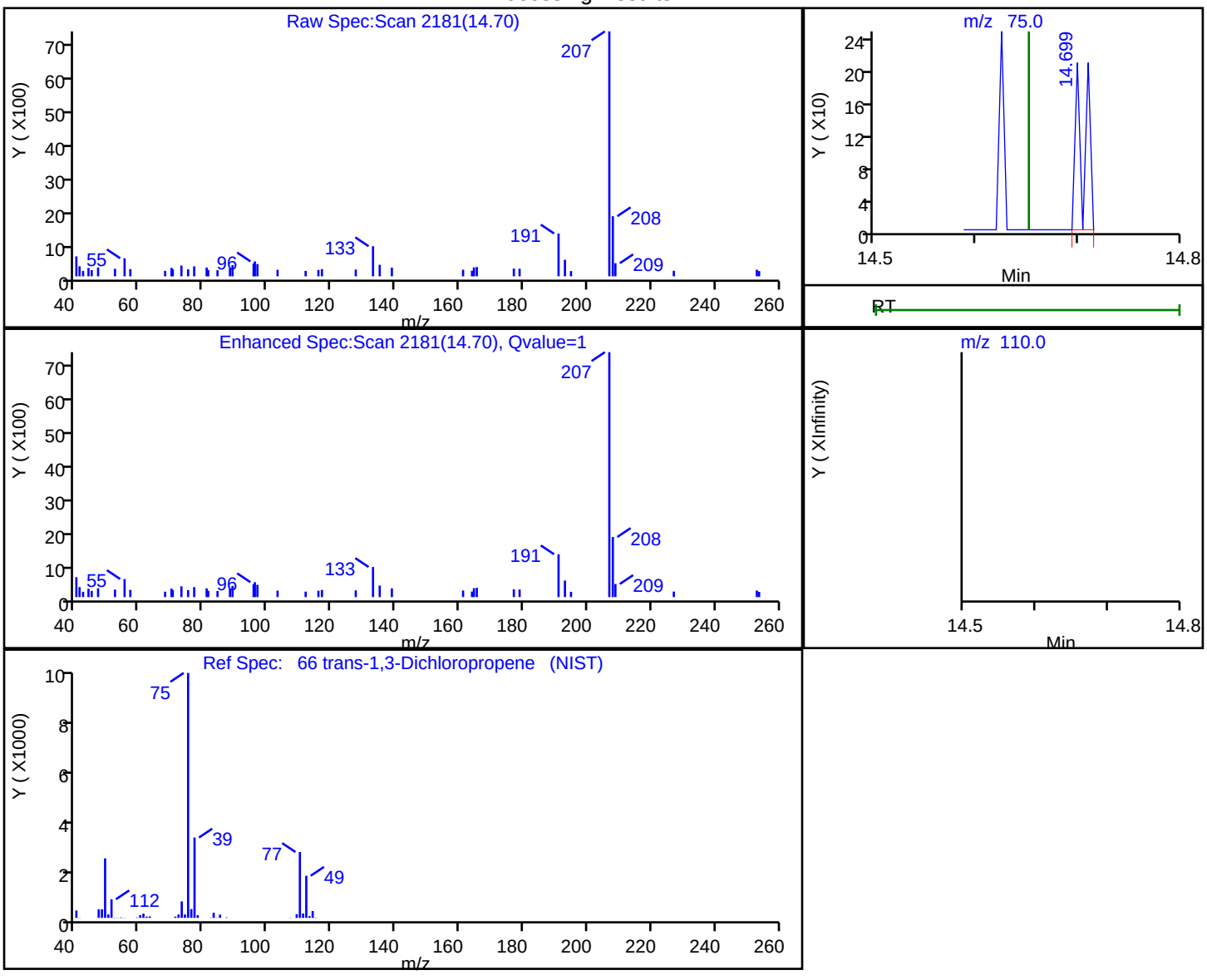
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.70 | 75.00 | 134 | 0.001361 |
| 14.65 | 110.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:28:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

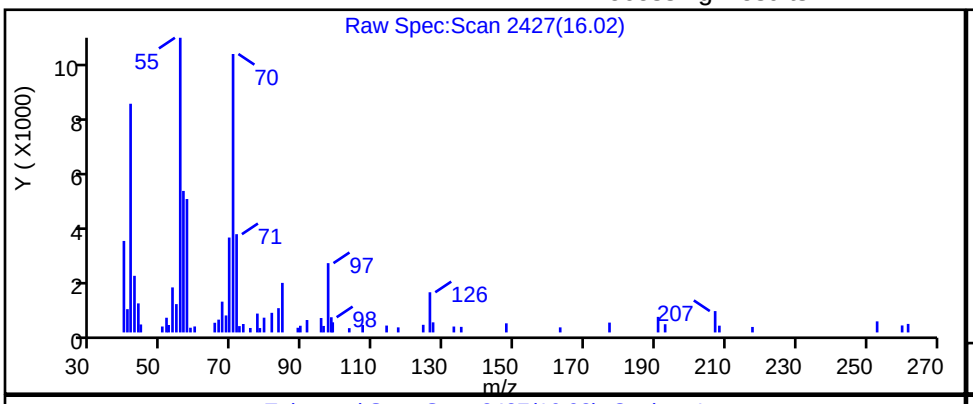
User Disabled Compound Report

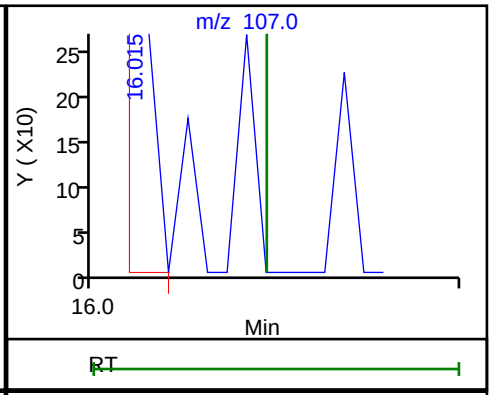
TestAmerica Burlington

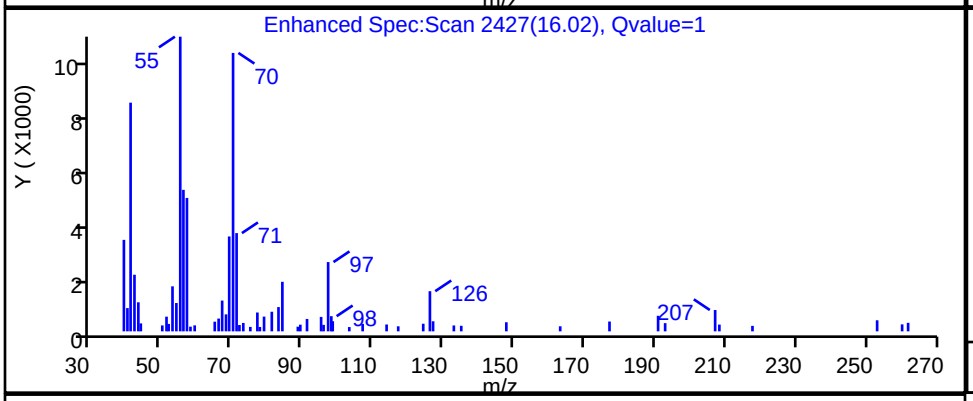
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

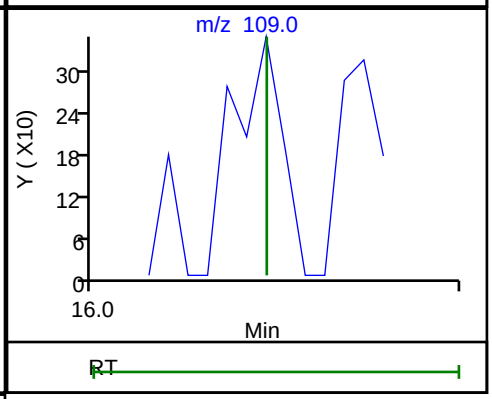
## 72 Ethylene Dibromide, CAS: 106-93-4

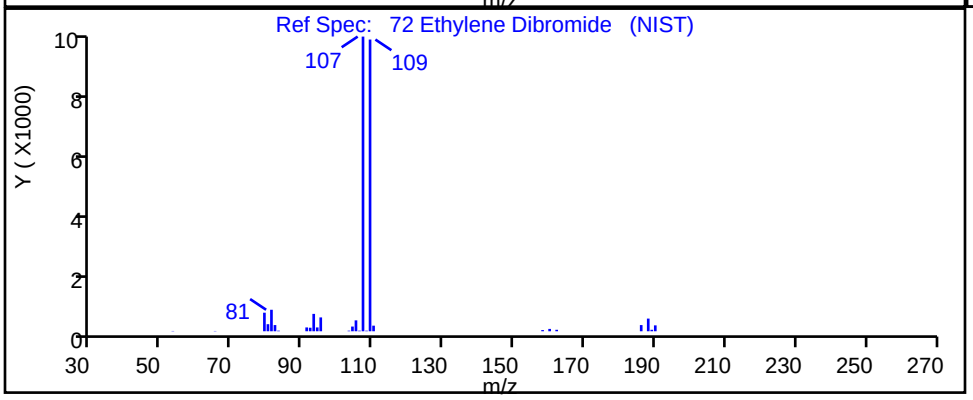
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 16.02 | 107.00 | 85 | 0.000686 |
| 16.05 | 109.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:28:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

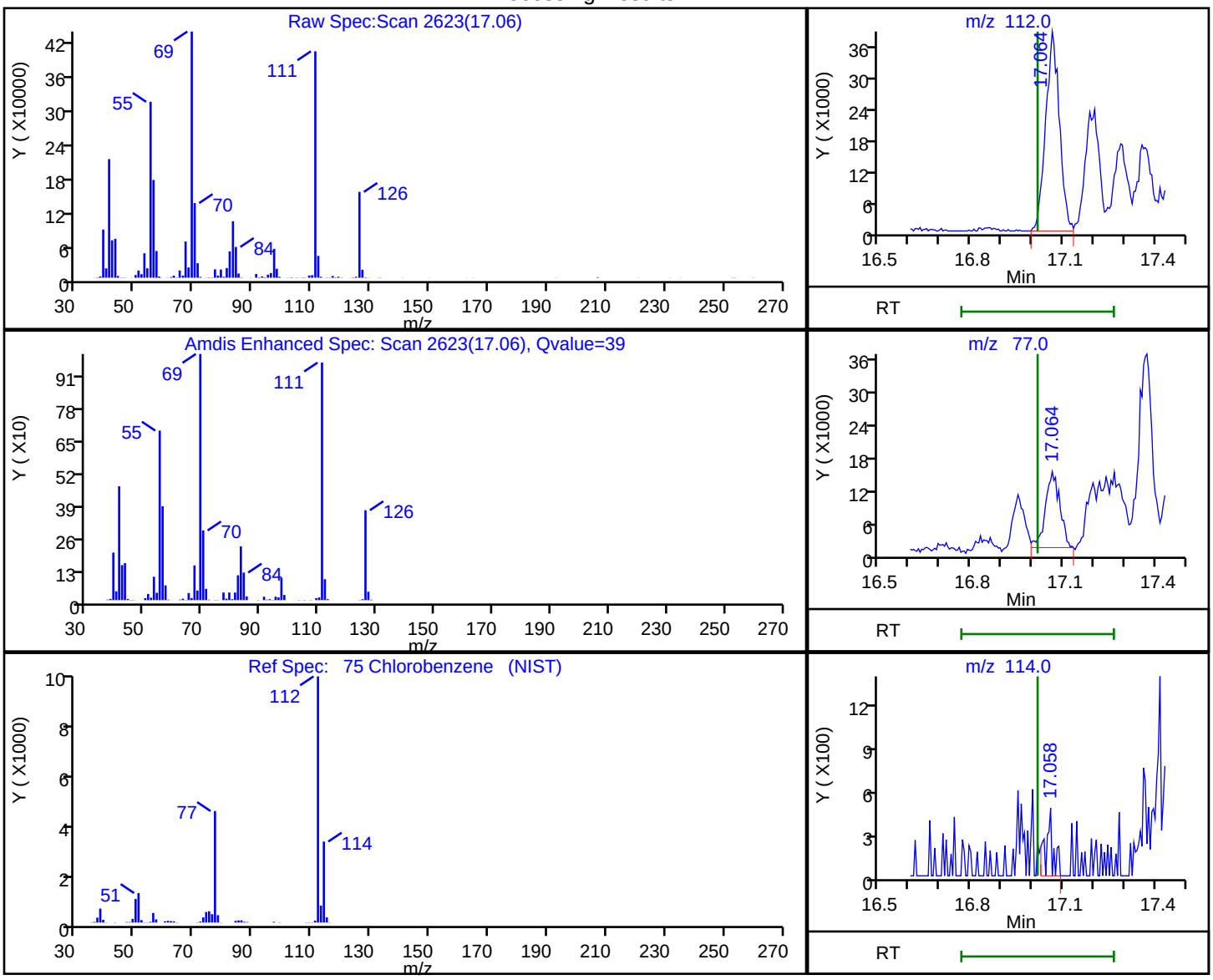
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.06 | 112.00 | 120717 | 0.692150 |
| 17.06 | 77.00 | 45003 | |
| 17.06 | 114.00 | 751 | |

Reviewer: bunmaa, 07-Dec-2018 09:28:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

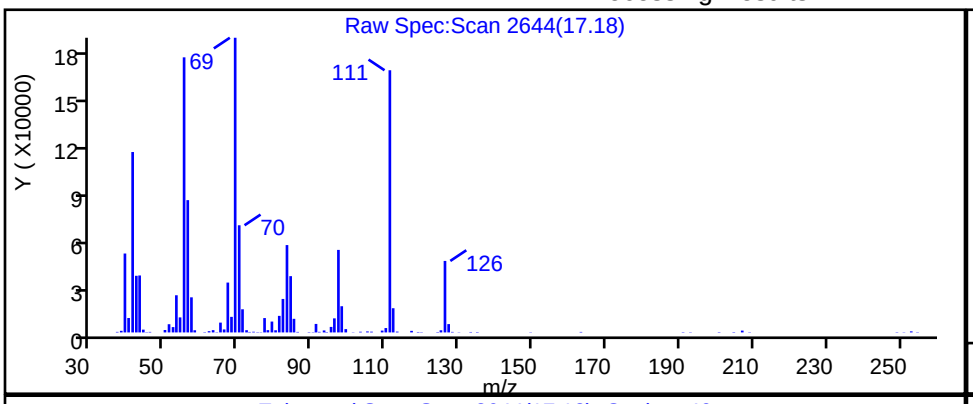
User Disabled Compound Report

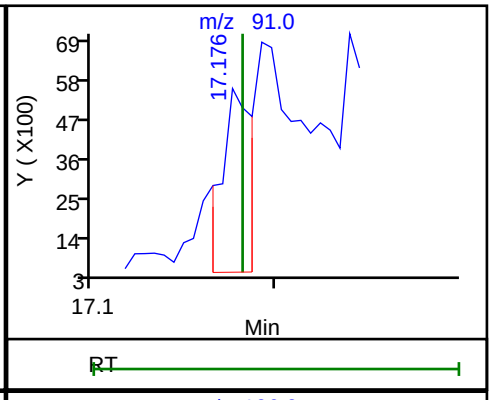
TestAmerica Burlington

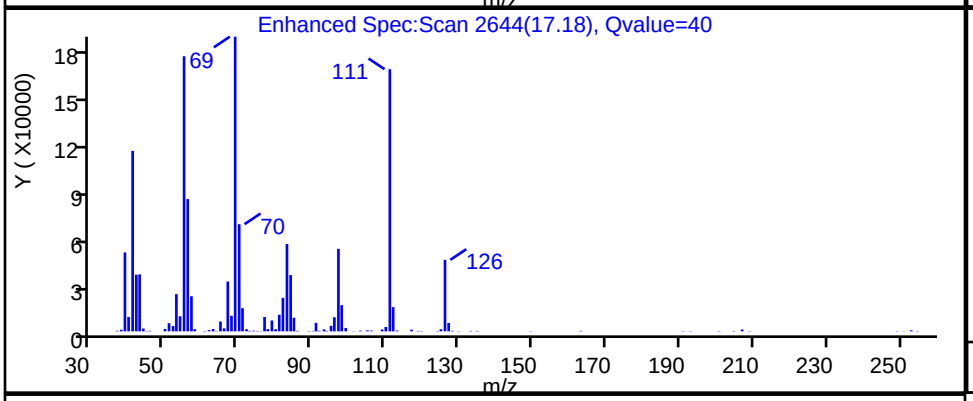
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

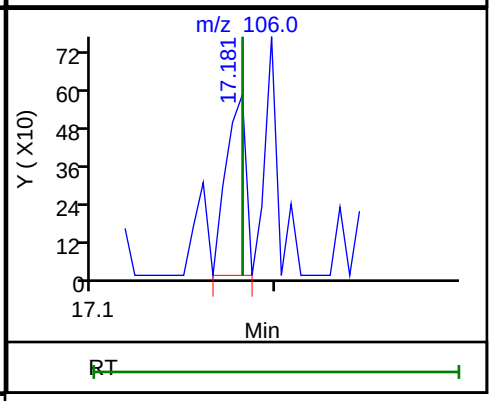
## 76 Ethylbenzene, CAS: 100-41-4

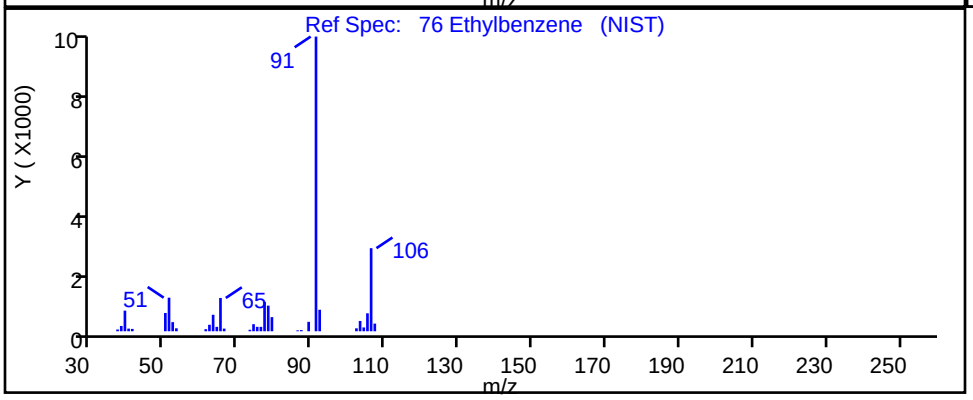
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.18 | 91.00 | 6131 | 0.024012 |
| 17.18 | 106.00 | 433 | |

Reviewer: bunmaa, 07-Dec-2018 09:28:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

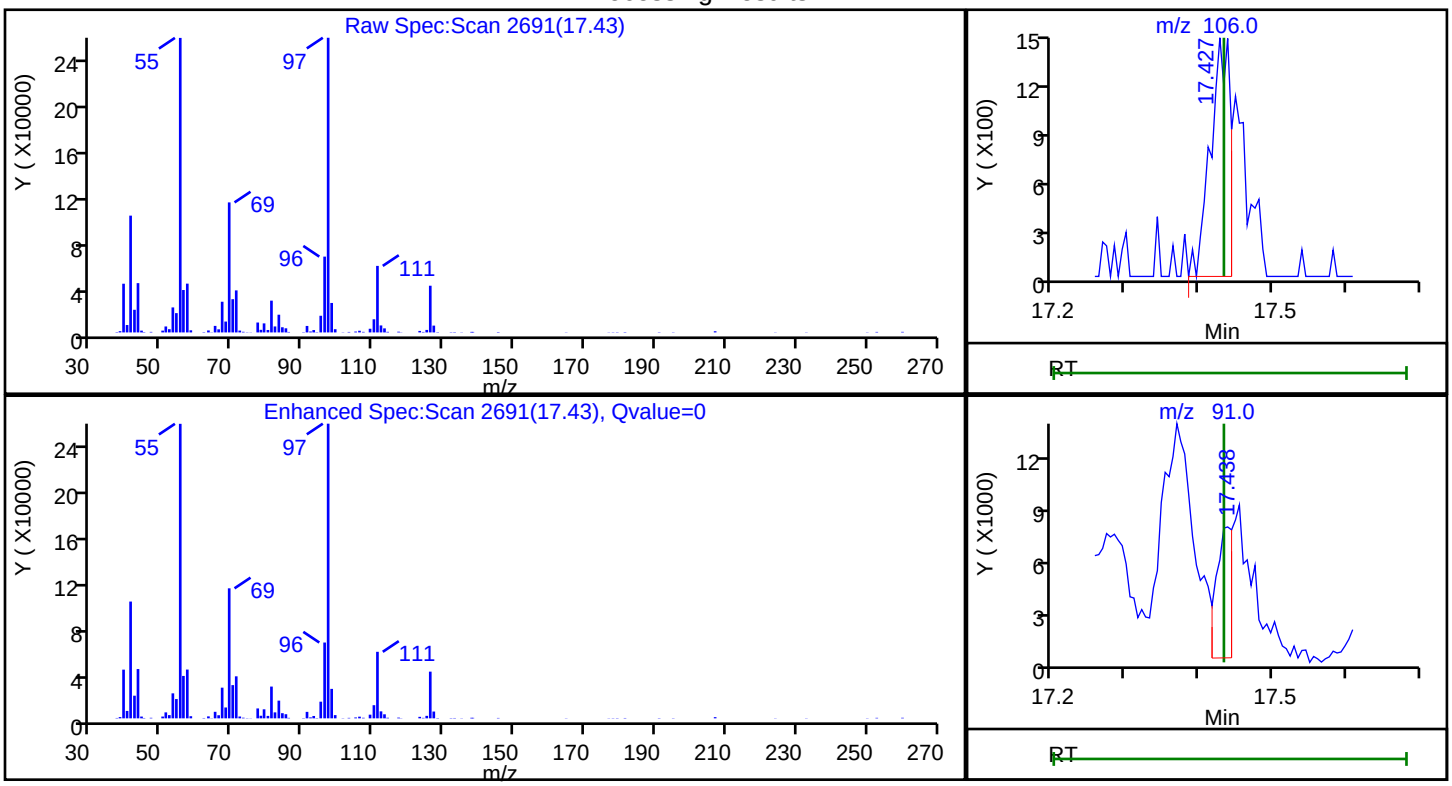
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.43 | 106.00 | 2762 | 0.026686 |
| 17.44 | 91.00 | 10678 | |

Reviewer: bunmaa, 07-Dec-2018 09:29:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

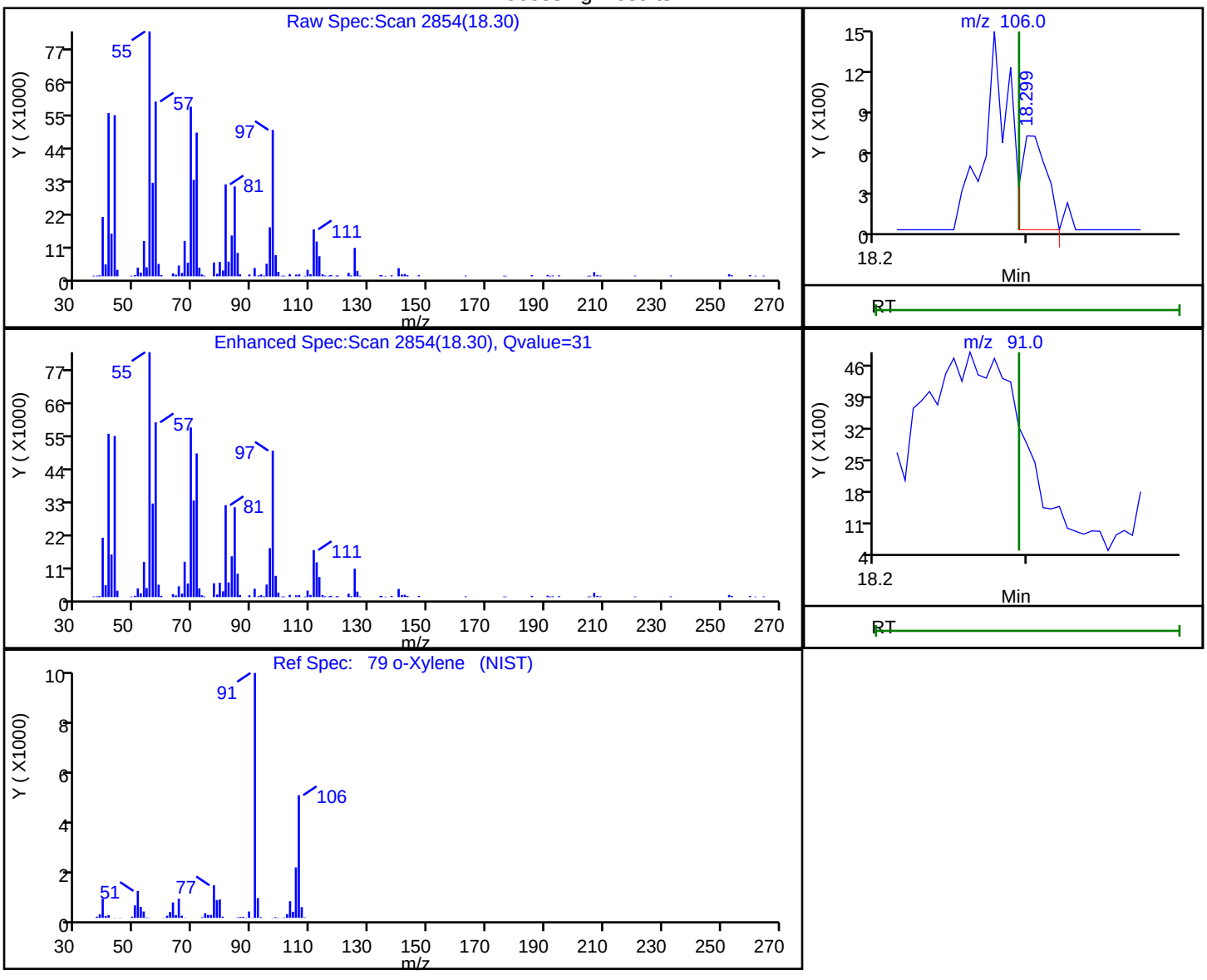
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.30 | 106.00 | 814 | 0.008275 |
| 18.29 | 91.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:40:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

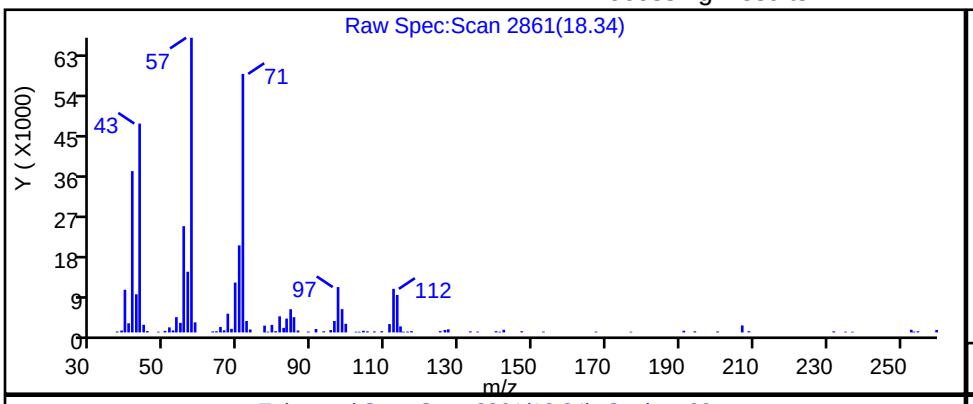
User Disabled Compound Report

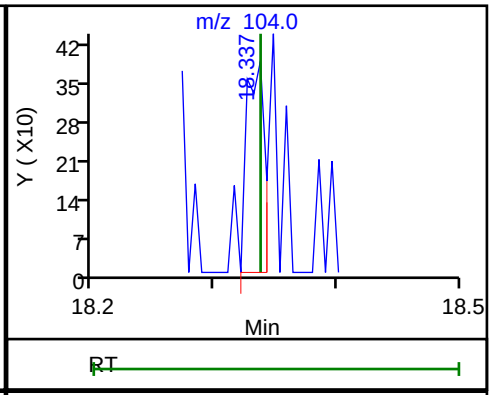
TestAmerica Burlington

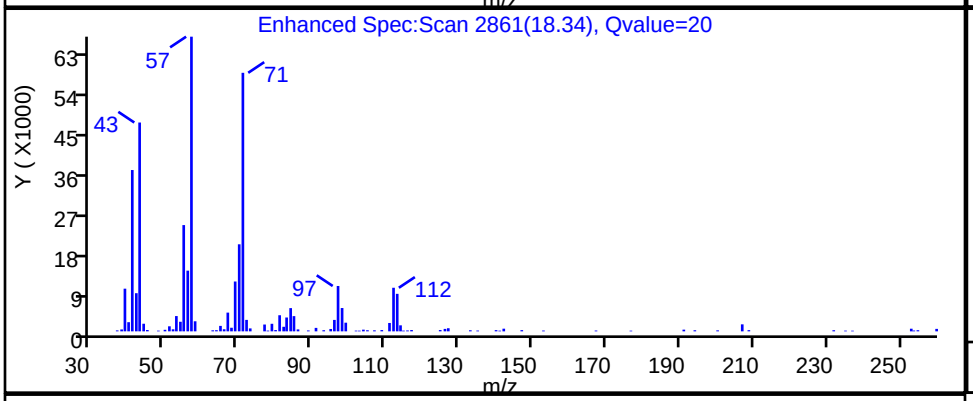
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

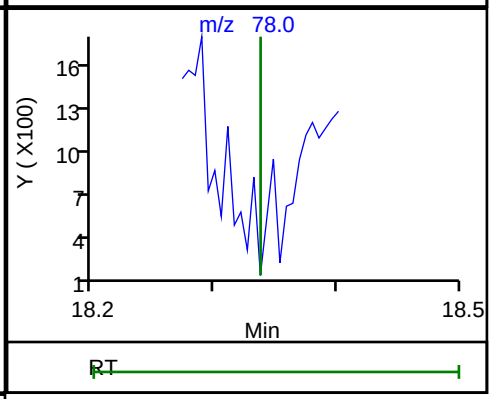
## 80 Styrene, CAS: 100-42-5

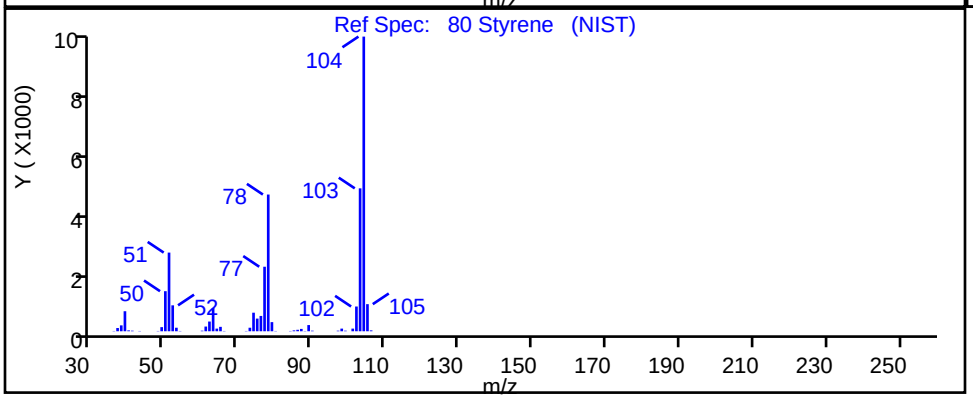
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.34 | 104.00 | 391 | 0.002597 |
| 18.34 | 78.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:40:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

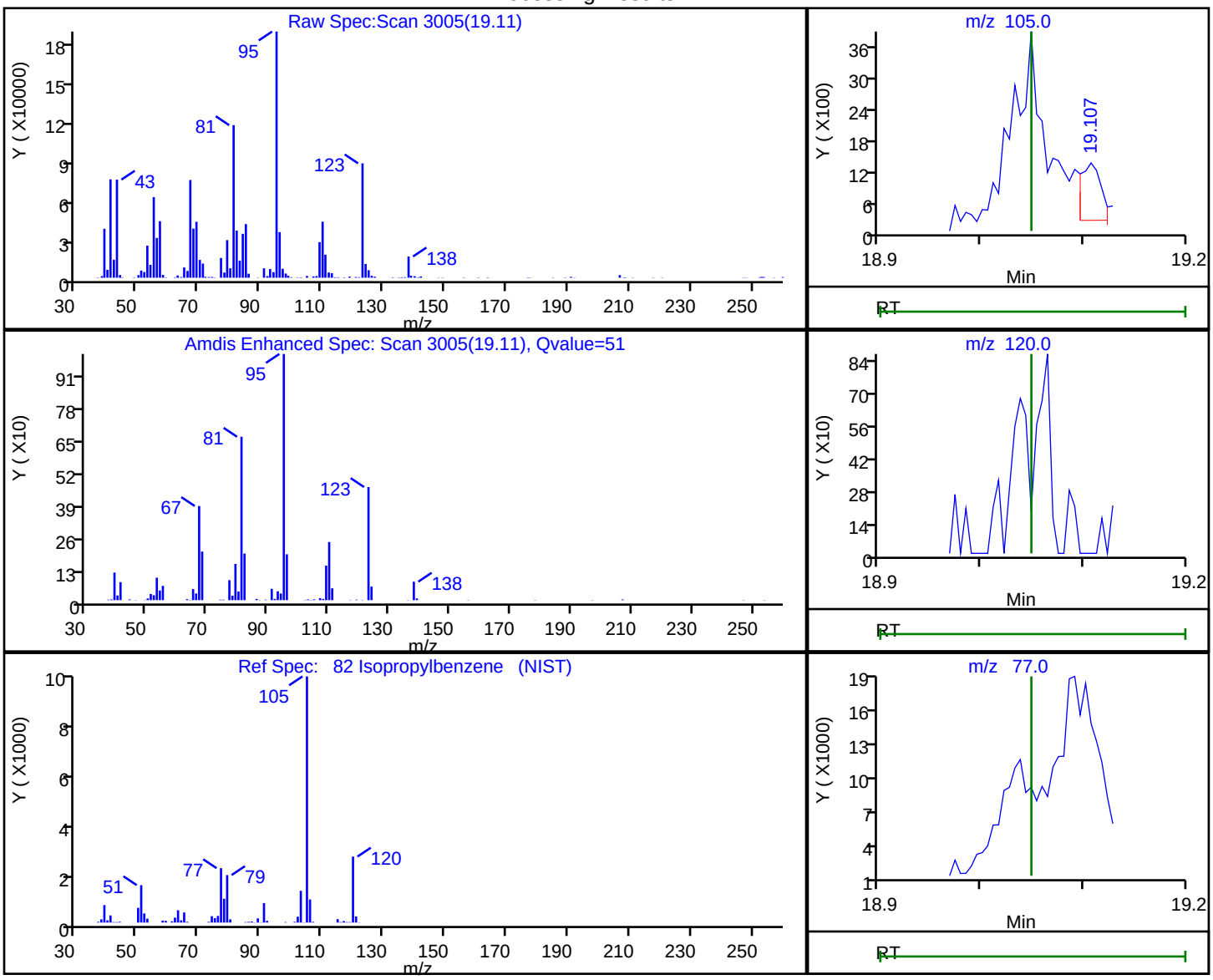
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.11 | 105.00 | 1527 | 0.005309 |
| 19.05 | 120.00 | 0 | |
| 19.05 | 77.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:29:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

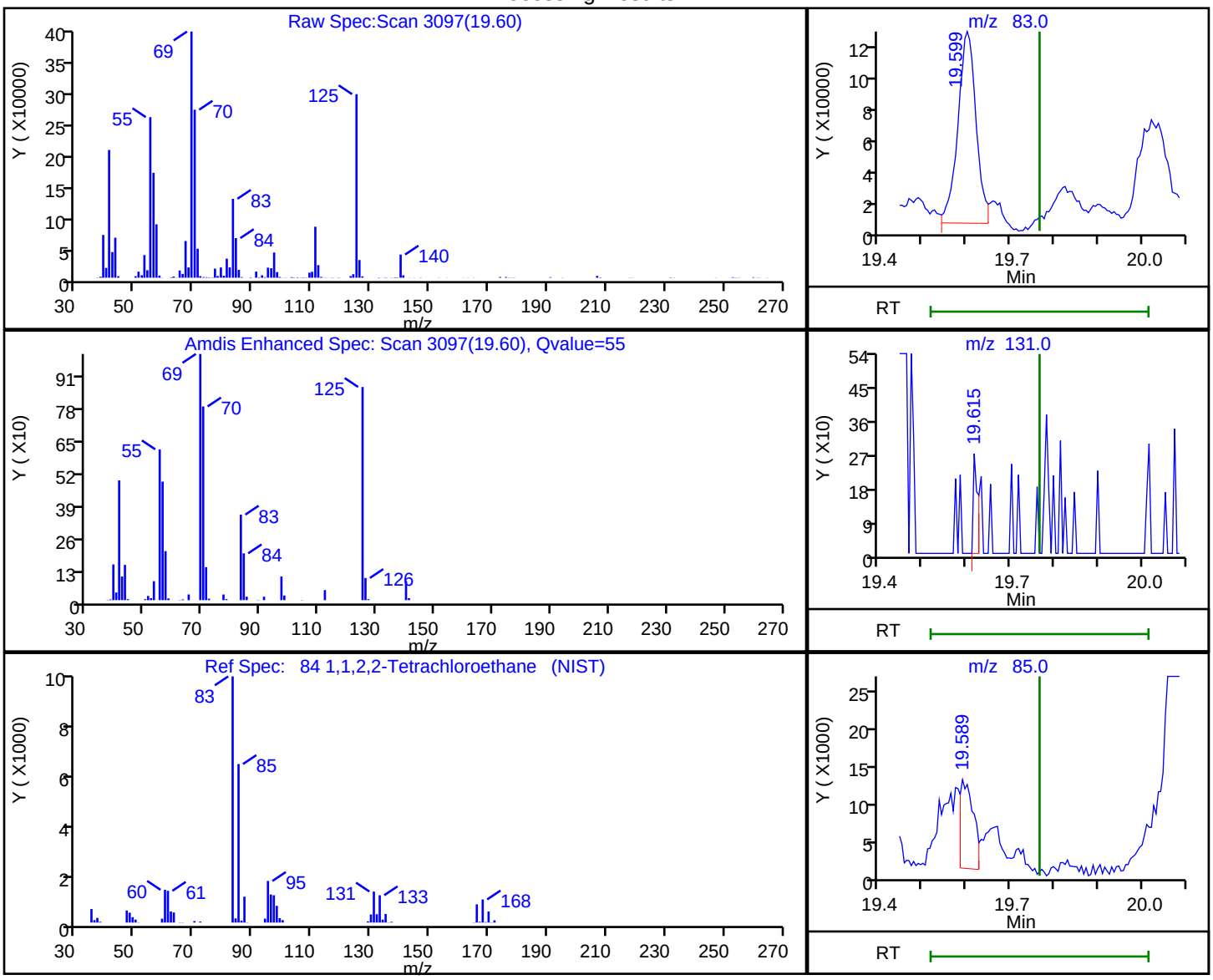
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.60 | 83.00 | 345636 | 2.202448 |
| 19.62 | 131.00 | 189 | |
| 19.59 | 85.00 | 24383 | |

Reviewer: guazzonig, 06-Dec-2018 13:40:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

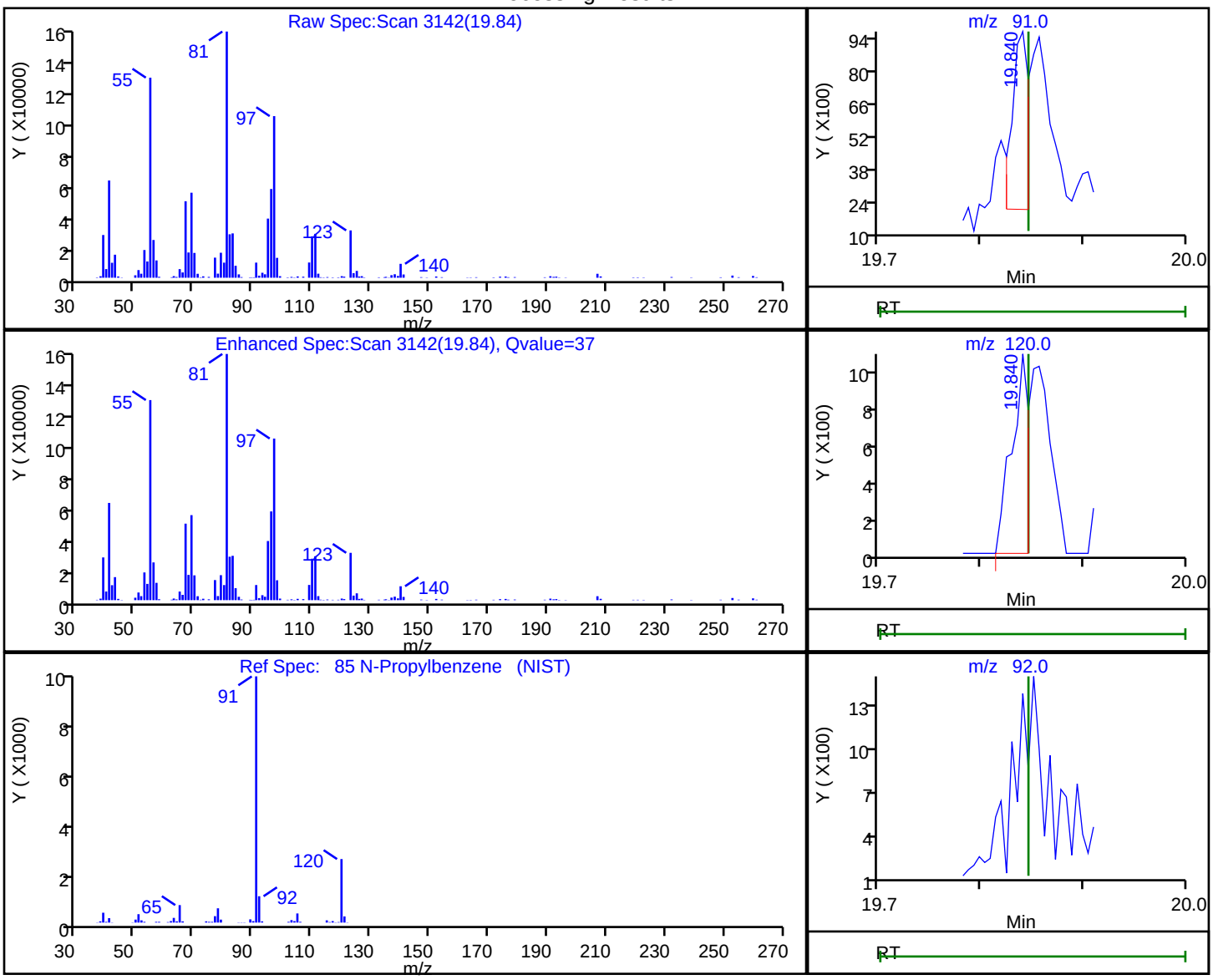
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.84 | 91.00 | 8504 | 0.024829 |
| 19.84 | 120.00 | 1144 | |
| 19.85 | 92.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:30:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

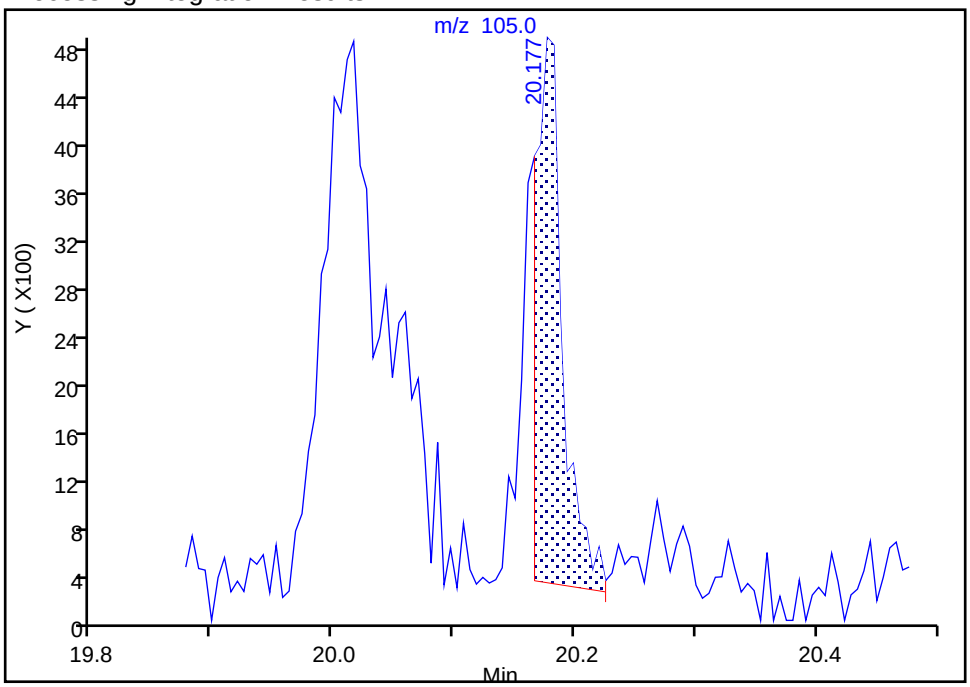
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

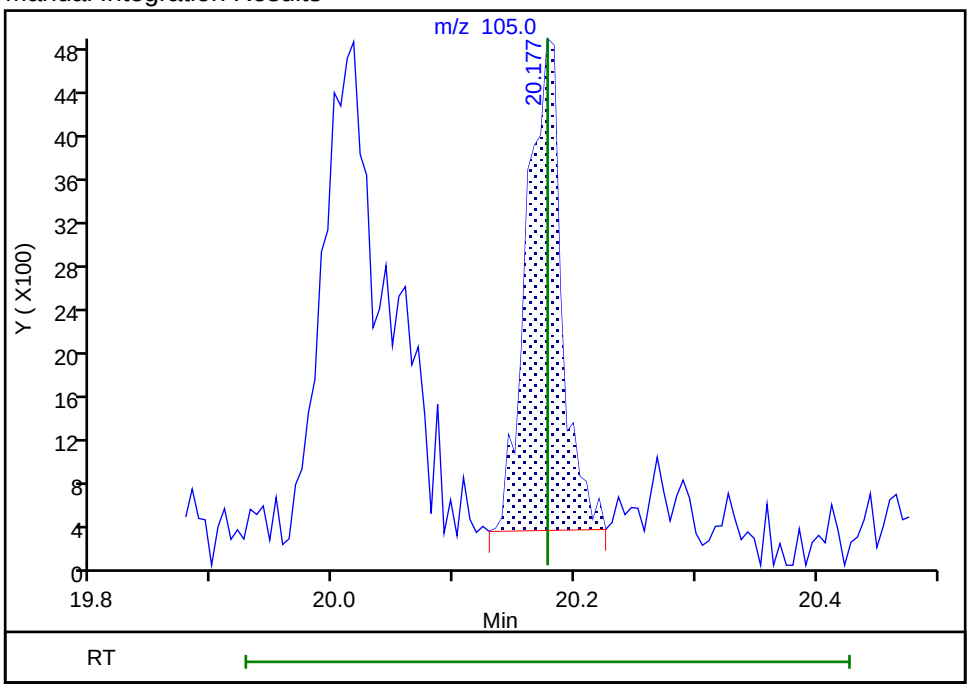
Processing Integration Results

RT: 20.18
Area: 7103
Amount: 0.028474
Amount Units: ppb v/v




Manual Integration Results

RT: 20.18
Area: 9118
Amount: 0.036551
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:40:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

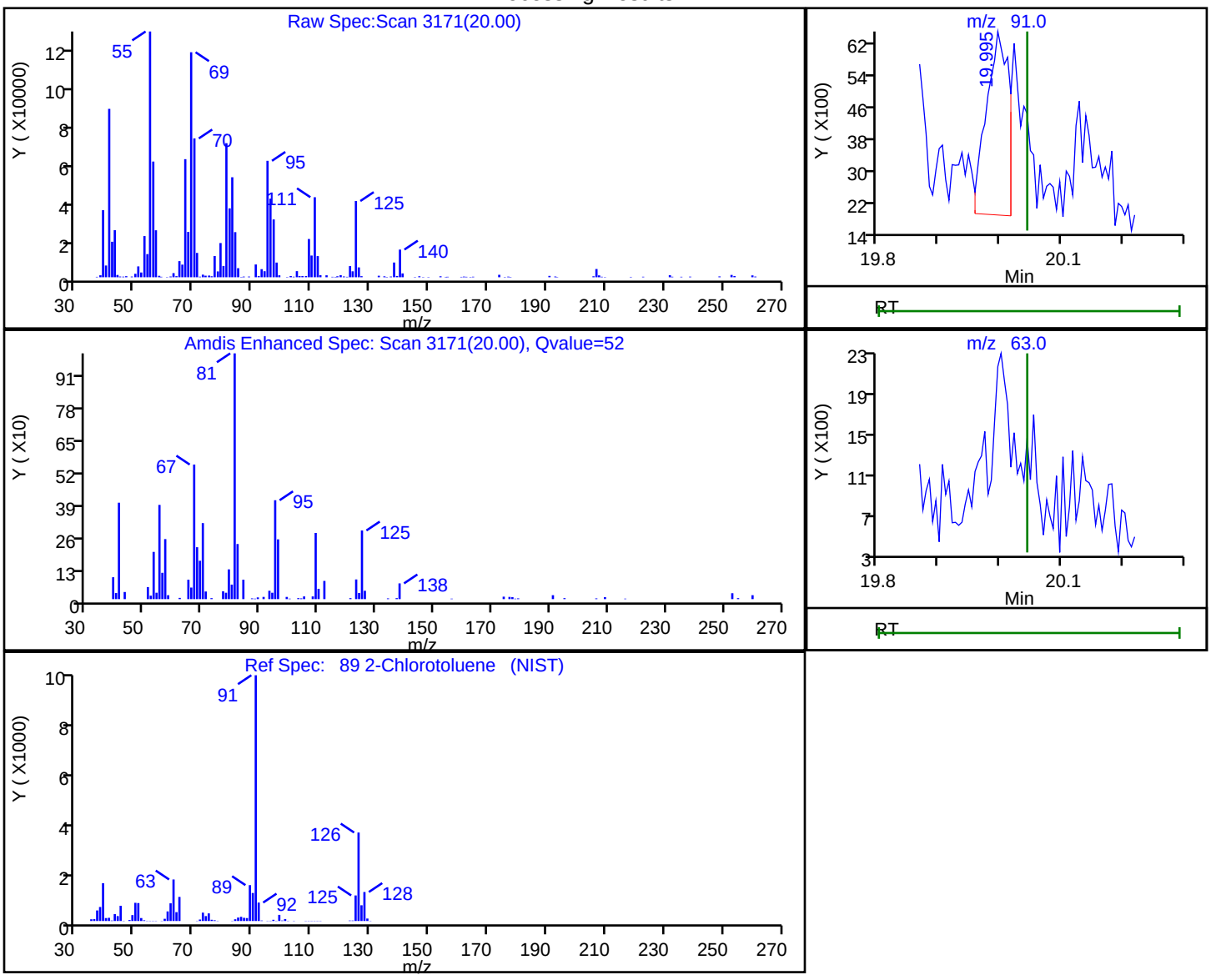
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.00 | 91.00 | 11756 | 0.045450 |
| 20.04 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:40:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

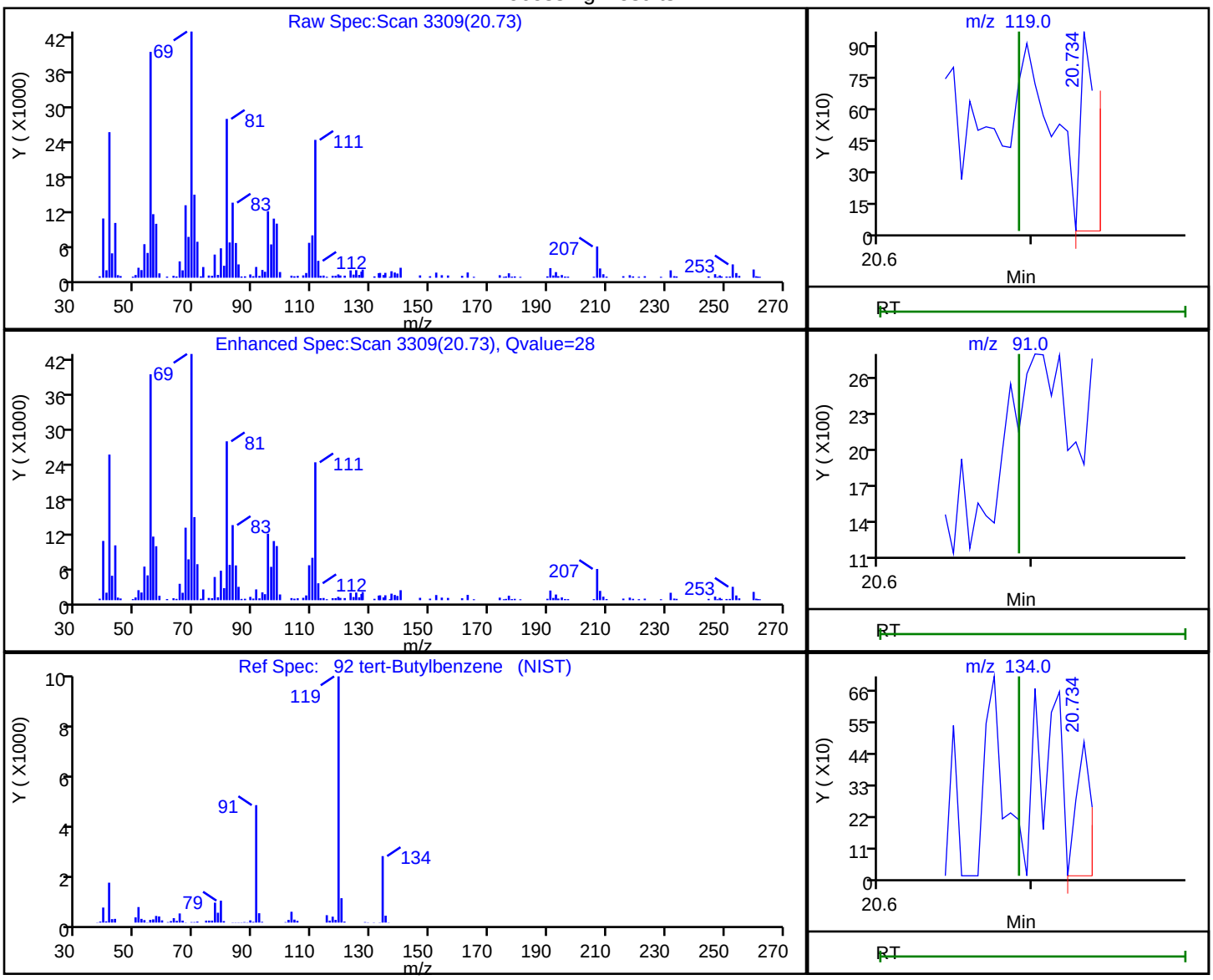
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.73 | 119.00 | 609 | 0.002610 |
| 20.73 | 134.00 | 316 | |
| 20.69 | 91.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:30:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

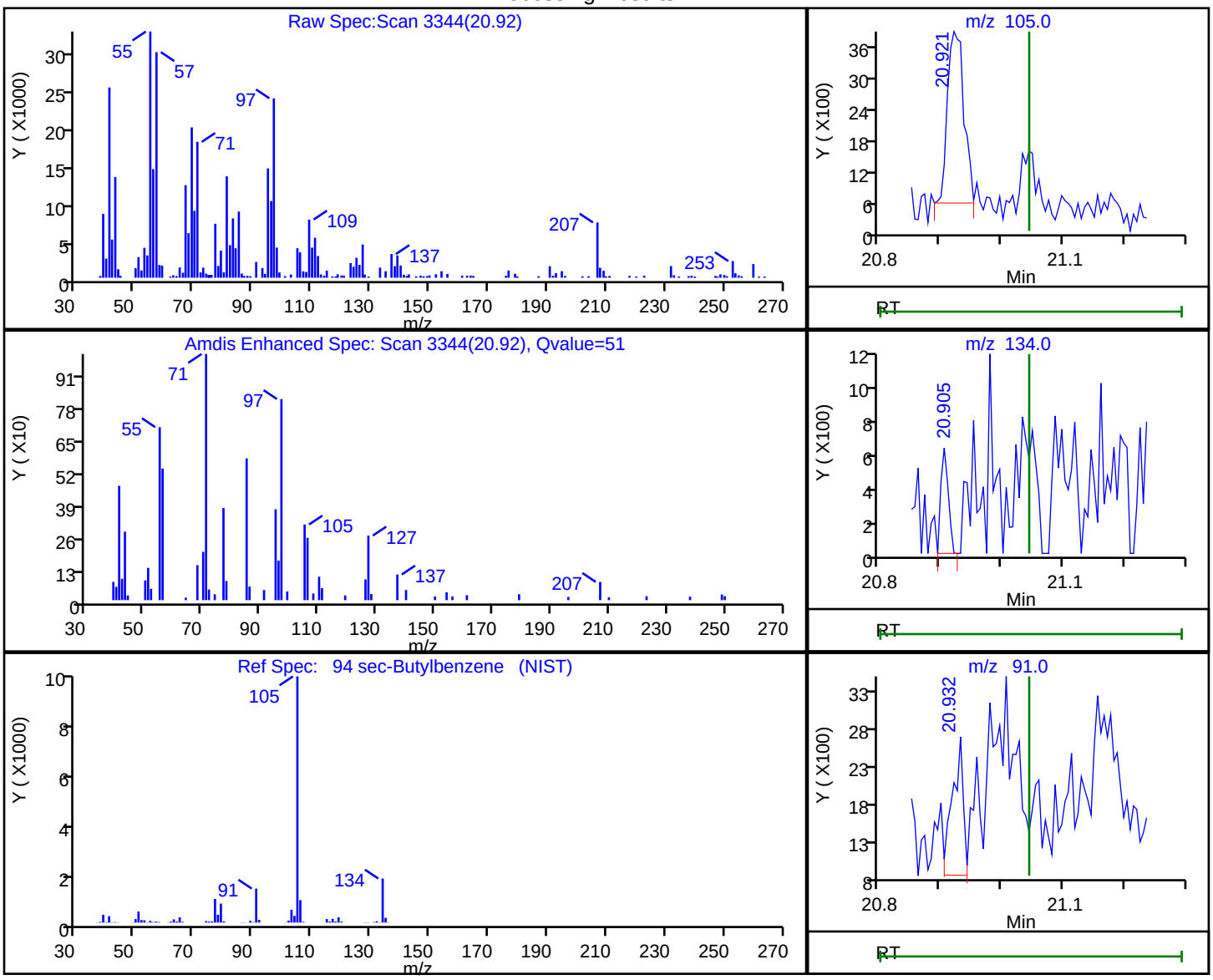
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 6221 | 0.017980 |
| 20.90 | 134.00 | 528 | |
| 20.93 | 91.00 | 2173 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

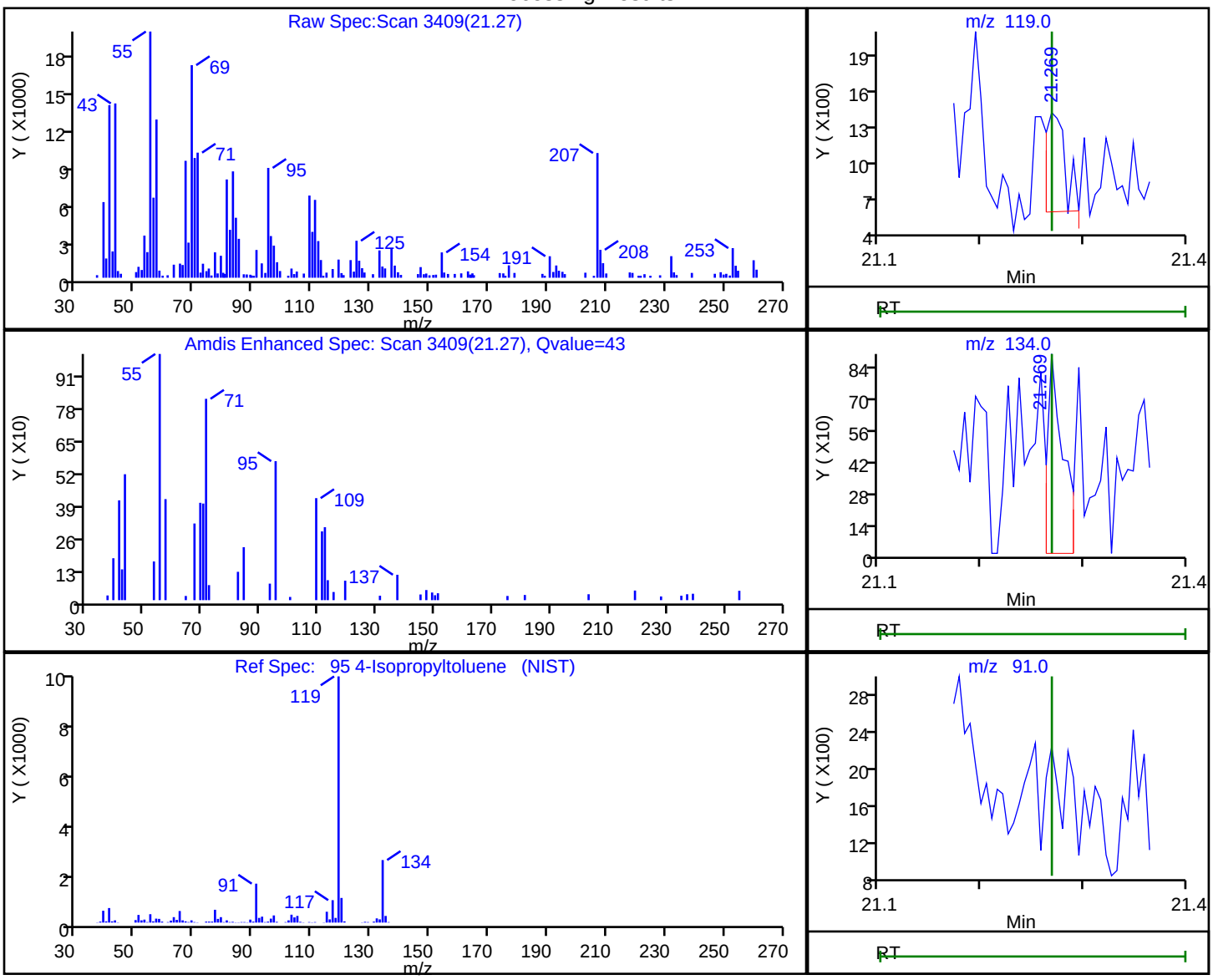
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.27 | 119.00 | 1035 | 0.003490 |
| 21.27 | 134.00 | 963 | |
| 21.27 | 91.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

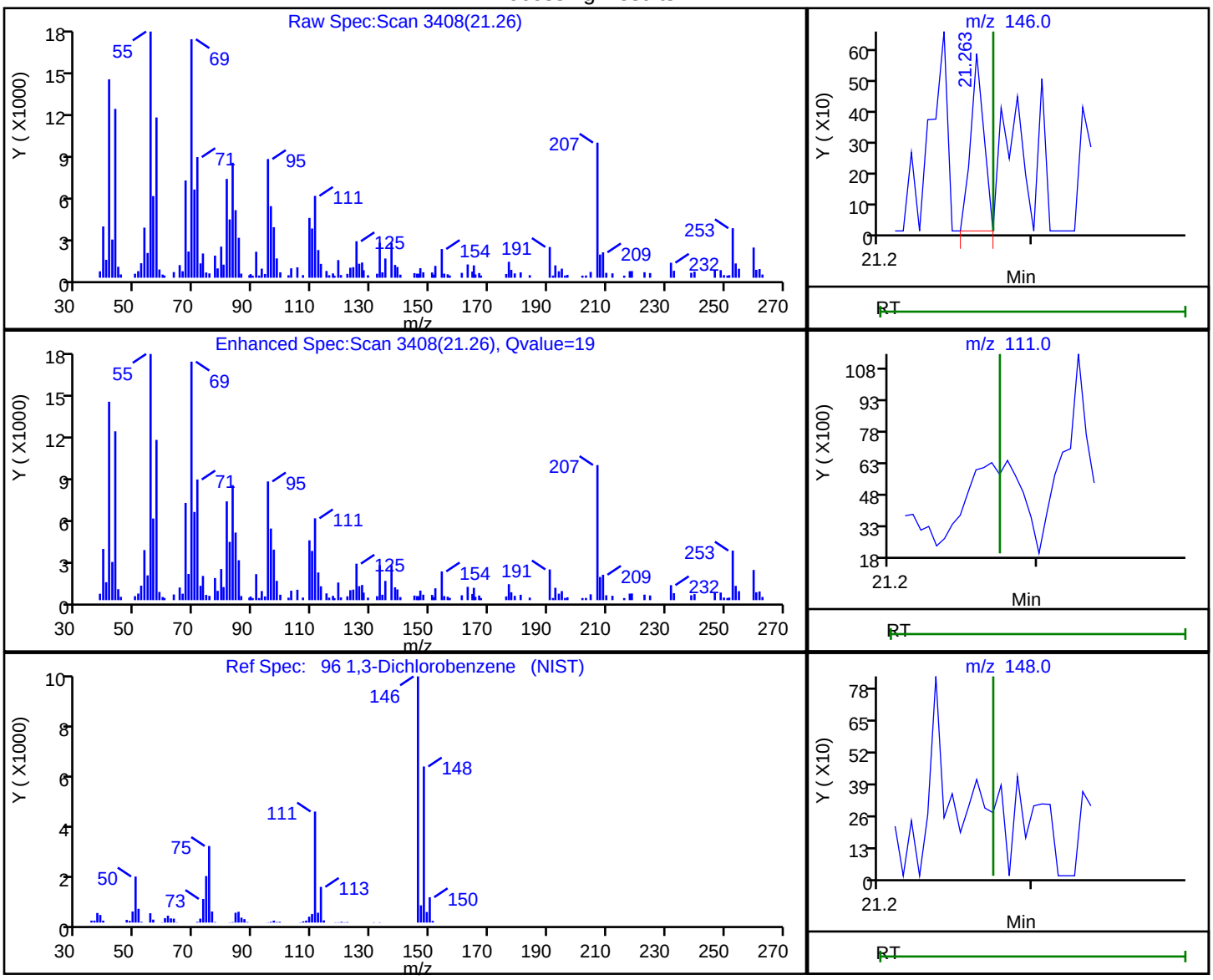
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 146.00 | 347 | 0.001740 |
| 21.27 | 111.00 | 0 | |
| 21.27 | 148.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

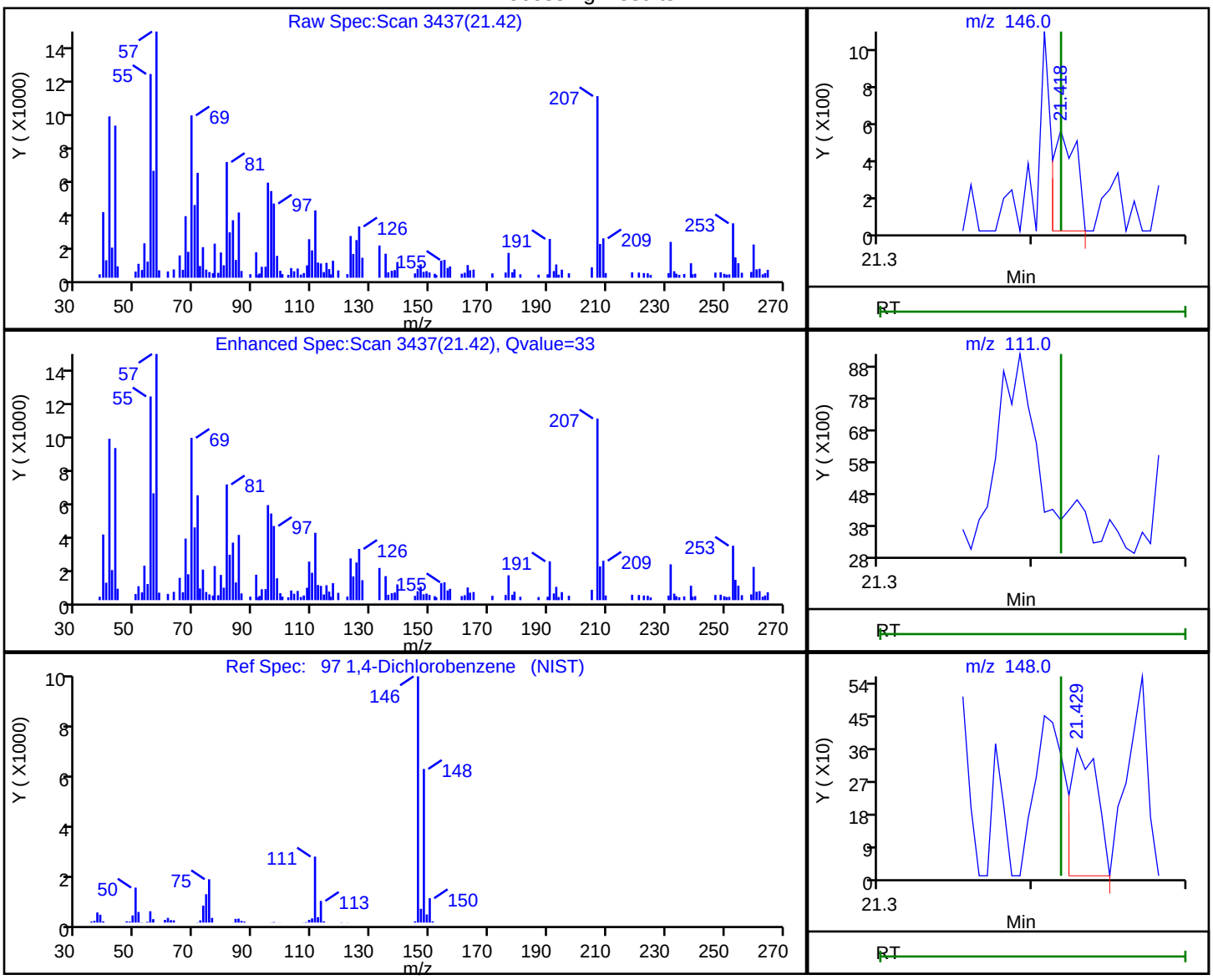
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.42 | 146.00 | 544 | 0.002852 |
| 21.43 | 148.00 | 439 | |
| 21.42 | 111.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

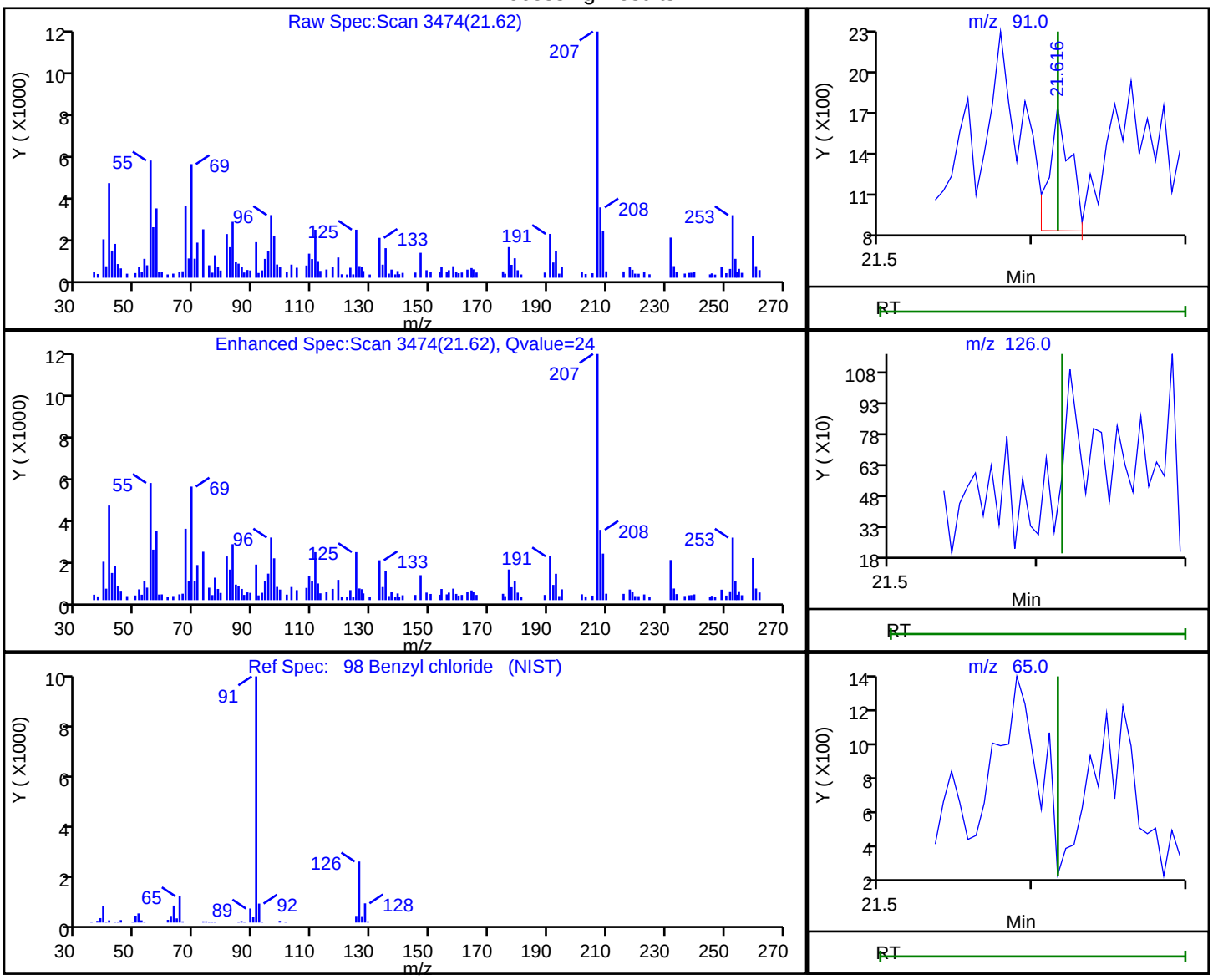
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.62 | 91.00 | 839 | 0.003563 |
| 21.62 | 126.00 | 0 | |
| 21.62 | 65.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

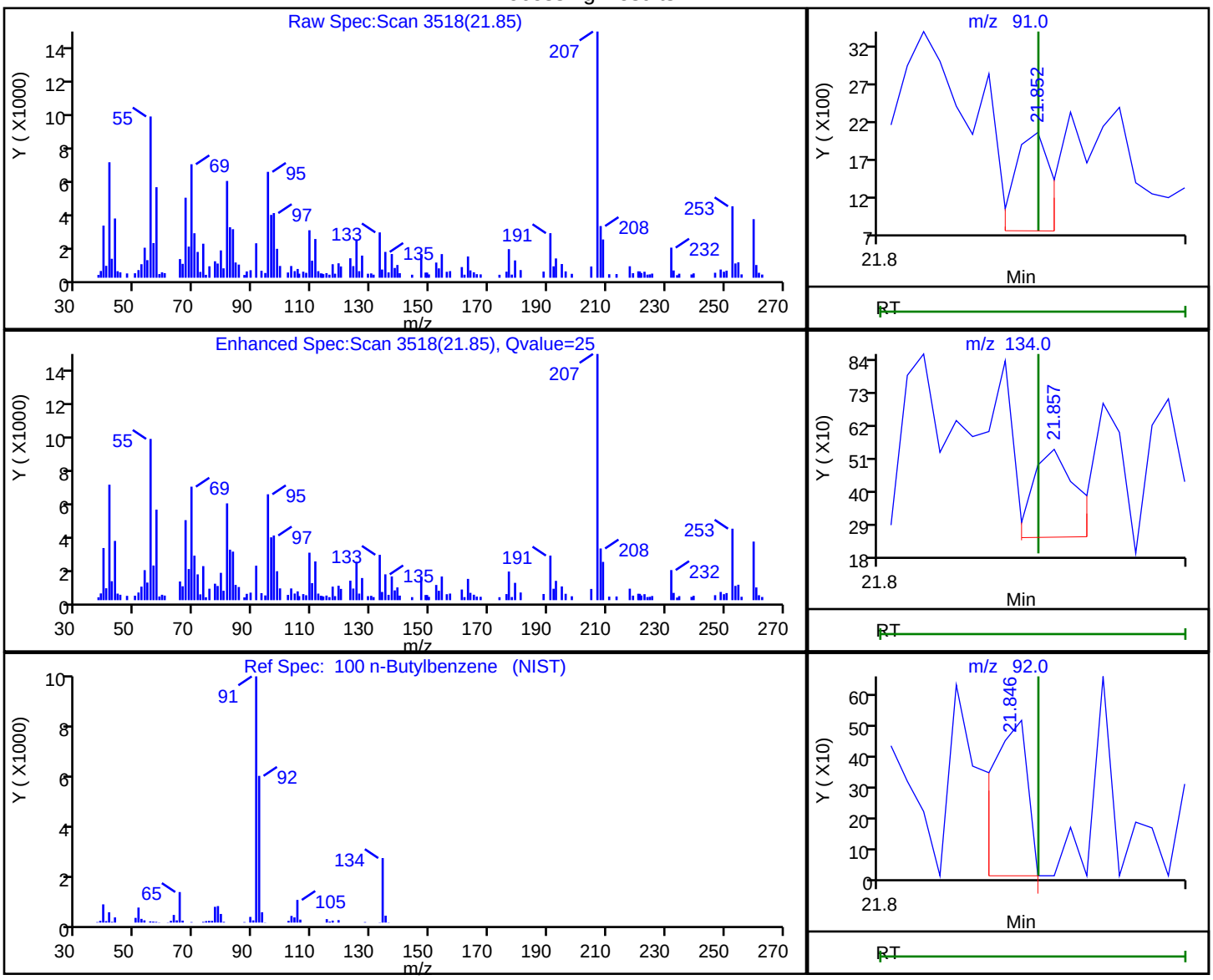
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 1045 | 0.003865 |
| 21.86 | 134.00 | 294 | |
| 21.85 | 92.00 | 417 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

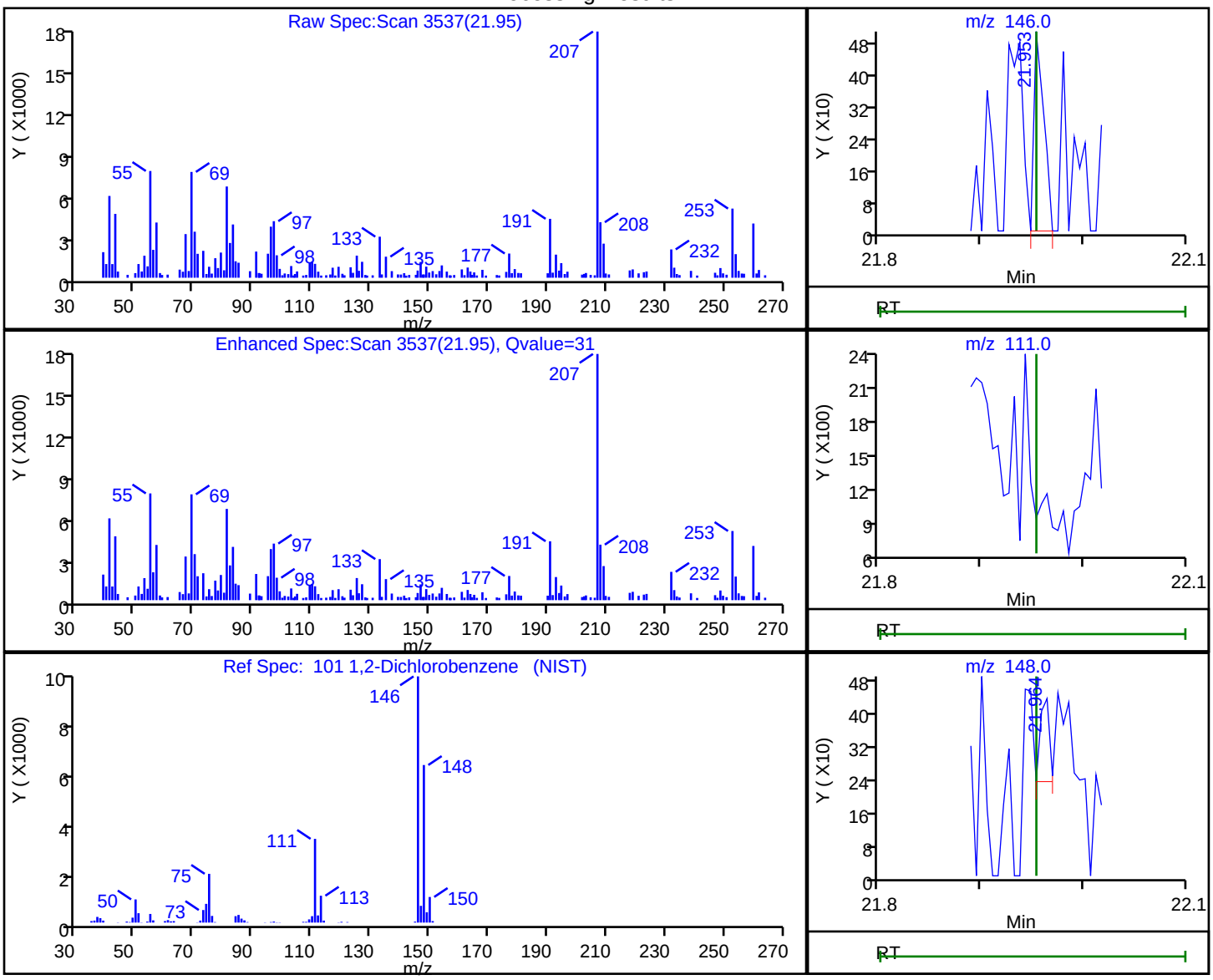
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.95 | 146.00 | 343 | 0.001871 |
| 21.96 | 148.00 | 125 | |
| 21.95 | 111.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

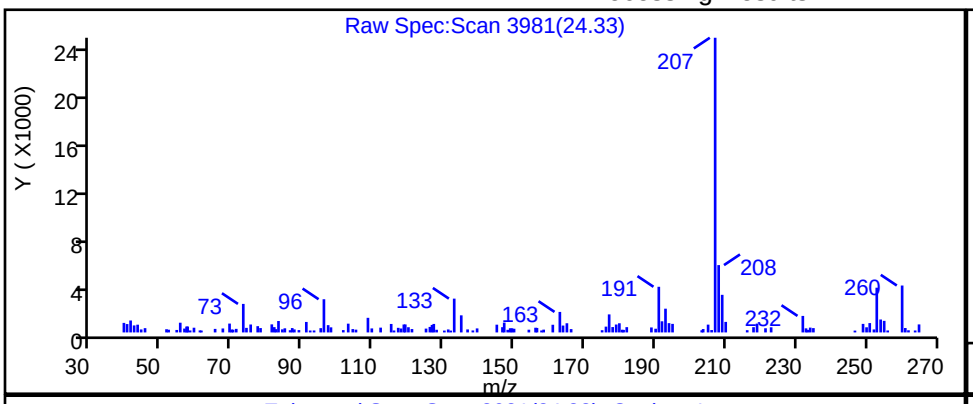
User Disabled Compound Report

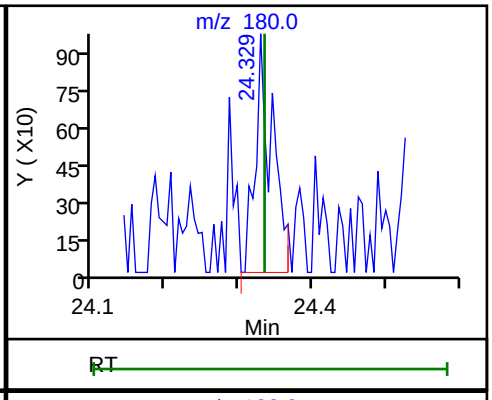
TestAmerica Burlington

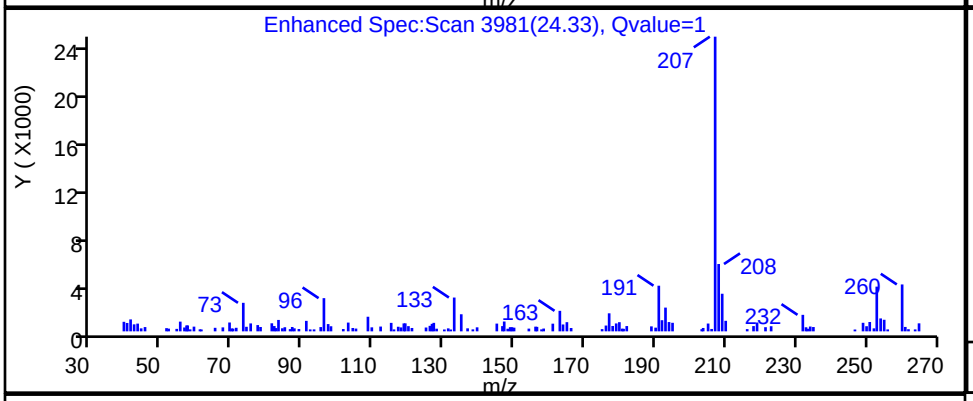
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

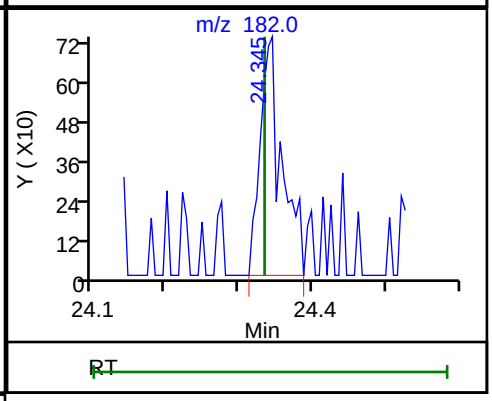
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

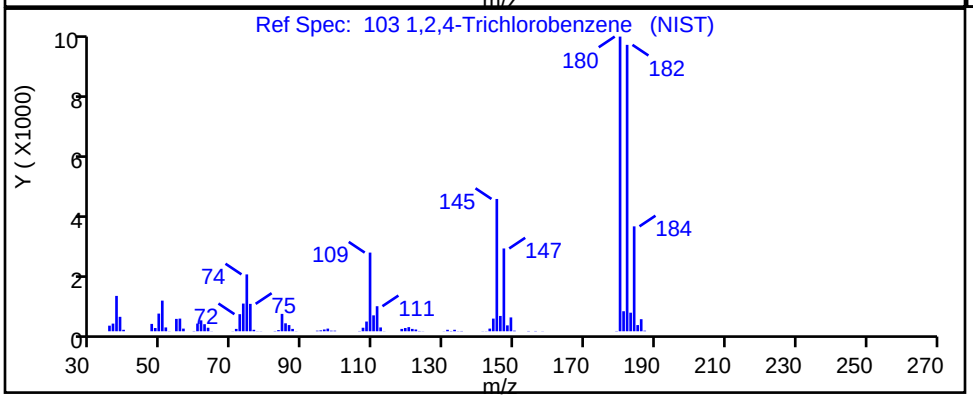
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.33 | 180.00 | 1581 | 0.011475 |
| 24.34 | 182.00 | 1514 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

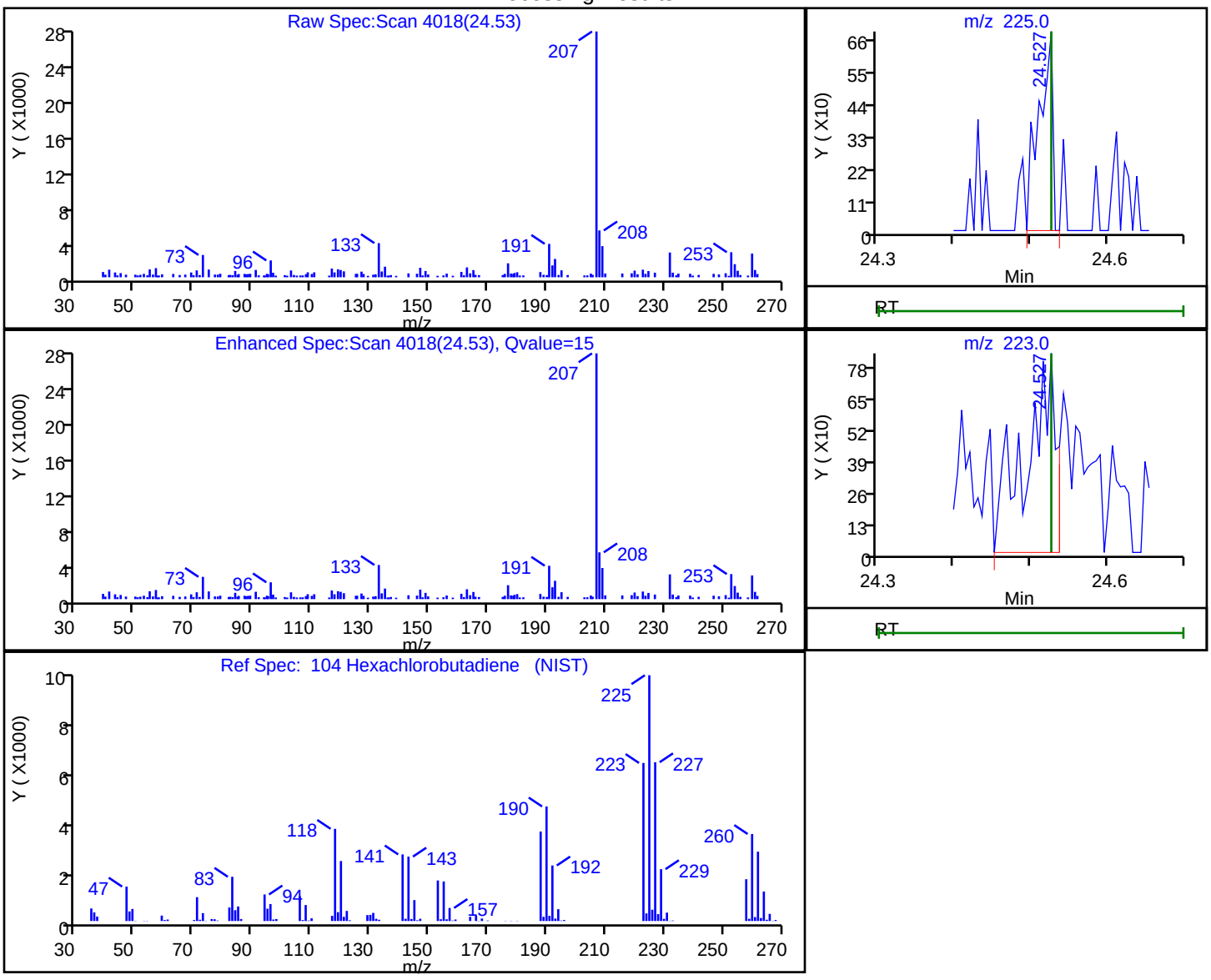
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 852 | 0.006216 |
| 24.53 | 223.00 | 2219 | |

Reviewer: bunmaa, 07-Dec-2018 09:31:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

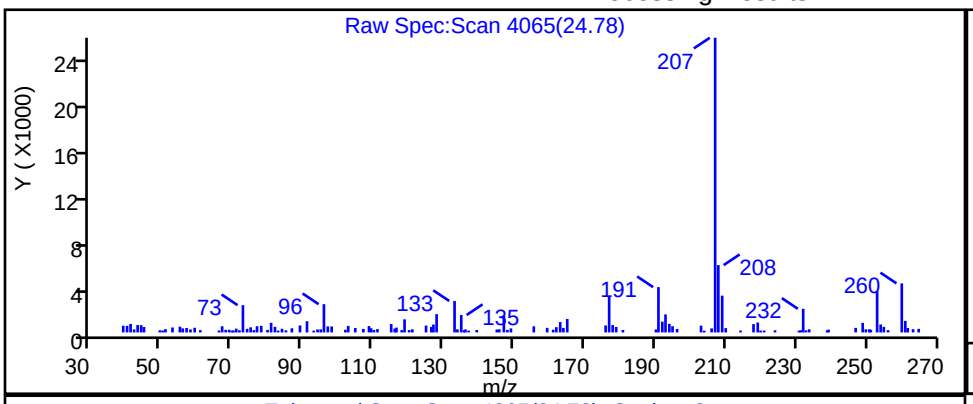
User Disabled Compound Report

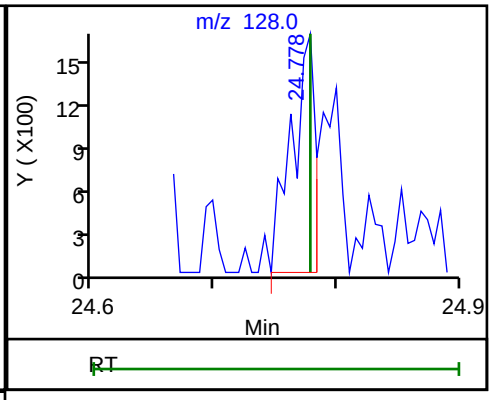
TestAmerica Burlington

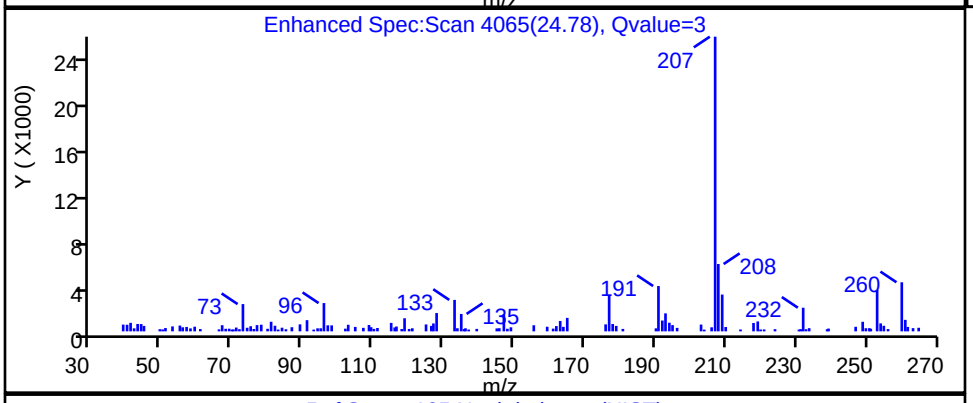
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D | | | | |
| Injection Date: | 06-Dec-2018 08:32:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-7 | Lab Sample ID: | 200-46353-7 | | |
| Client ID: | MP-1_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 23 | Worklist Smp#: | 23 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 50.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

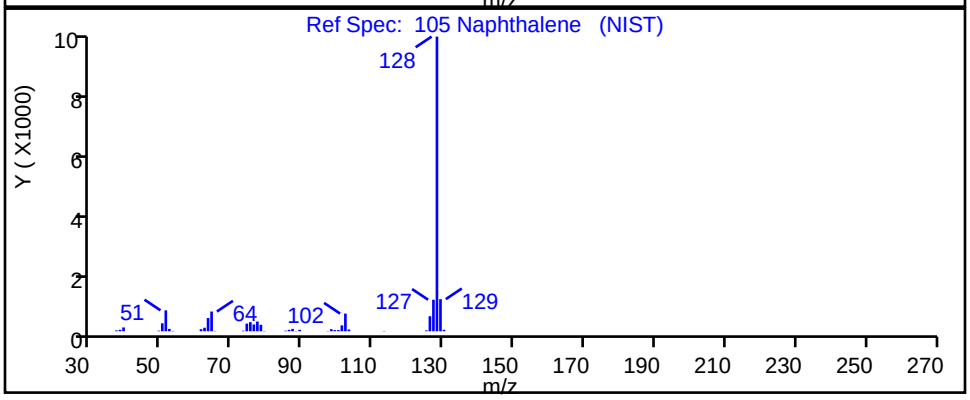
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.78 | 128.00 | 2140 | 0.008011 |

Reviewer: bunmaa, 07-Dec-2018 09:31:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 10 | U | 10 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 10 | U | 10 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 4.0 | U | 4.0 | |
| 74-87-3 | Chloromethane | 50.49 | 10 | U | 10 | |
| 106-97-8 | n-Butane | 58.12 | 10 | U | 10 | |
| 75-01-4 | Vinyl chloride | 62.50 | 1.6 | U | 1.6 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 4.0 | U | 4.0 | |
| 74-83-9 | Bromomethane | 94.94 | 4.0 | U | 4.0 | |
| 75-00-3 | Chloroethane | 64.52 | 10 | U | 10 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 4.0 | U | 4.0 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 4.0 | U | 4.0 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 4.0 | U | 4.0 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.70 | U | 0.70 | |
| 67-64-1 | Acetone | 58.08 | 100 | U | 100 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 100 | U | 100 | |
| 75-15-0 | Carbon disulfide | 76.14 | 10 | U | 10 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 10 | U | 10 | |
| 75-09-2 | Methylene Chloride | 84.93 | 10 | U | 10 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 100 | U | 100 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 4.0 | U | 4.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 4.0 | U | 4.0 | |
| 110-54-3 | n-Hexane | 86.17 | 4.0 | U | 4.0 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 4.0 | U | 4.0 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 10 | U | 10 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 1.0 | U | 1.0 | |
| 67-66-3 | Chloroform | 119.38 | 4.0 | U | 4.0 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 100 | U | 100 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 4.0 | U | 4.0 | |
| 110-82-7 | Cyclohexane | 84.16 | 4.0 | U | 4.0 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.70 | U | 0.70 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 4.0 | U | 4.0 | |
| 71-43-2 | Benzene | 78.11 | 4.0 | U | 4.0 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 4.0 | U | 4.0 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 4.2 | | 4.0 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.70 | U | 0.70 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 10 | U | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 4.0 | U | 4.0 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 100 | U | 100 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 4.0 | U | 4.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 4.0 | U | 4.0 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 10 | U | 10 | |
| 108-88-3 | Toluene | 92.14 | 4.0 | U | 4.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 4.0 | U | 4.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 4.0 | U | 4.0 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 4.0 | U | 4.0 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 10 | U | 10 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 4.0 | U | 4.0 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 4.0 | U | 4.0 | |
| 108-90-7 | Chlorobenzene | 112.56 | 4.0 | U | 4.0 | |
| 100-41-4 | Ethylbenzene | 106.17 | 4.0 | U | 4.0 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 10 | U | 10 | |
| 95-47-6 | o-Xylene | 106.17 | 4.0 | U | 4.0 | |
| 100-42-5 | Styrene | 104.15 | 4.0 | U | 4.0 | |
| 75-25-2 | Bromoform | 252.75 | 4.0 | U | 4.0 | |
| 98-82-8 | Cumene | 120.19 | 4.0 | U | 4.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 4.0 | U | 4.0 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 4.0 | U | 4.0 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 4.0 | U | 4.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 4.0 | U | 4.0 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 4.0 | U | 4.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 4.0 | U | 4.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 4.0 | U | 4.0 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 4.0 | U | 4.0 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 4.0 | U | 4.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 4.0 | U | 4.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 4.0 | U | 4.0 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 Lab Sample ID: 200-46353-8

Matrix: Air Lab File ID: 200-33531-024.D

Analysis Method: TO-15 Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 4.0 | U | 4.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 4.0 | U | 4.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 4.0 | U | 4.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 10 | U | 10 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 4.0 | U | 4.0 | |
| 91-20-3 | Naphthalene | 128.17 | 10 | U | 10 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 49 | U | 49 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 35 | U | 35 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 28 | U | 28 | |
| 74-87-3 | Chloromethane | 50.49 | 21 | U | 21 | |
| 106-97-8 | n-Butane | 58.12 | 24 | U | 24 | |
| 75-01-4 | Vinyl chloride | 62.50 | 4.0 | U | 4.0 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 8.8 | U | 8.8 | |
| 74-83-9 | Bromomethane | 94.94 | 16 | U | 16 | |
| 75-00-3 | Chloroethane | 64.52 | 26 | U | 26 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 17 | U | 17 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 22 | U | 22 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 31 | U | 31 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 2.8 | U | 2.8 | |
| 67-64-1 | Acetone | 58.08 | 240 | U | 240 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 250 | U | 250 | |
| 75-15-0 | Carbon disulfide | 76.14 | 31 | U | 31 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 31 | U | 31 | |
| 75-09-2 | Methylene Chloride | 84.93 | 35 | U | 35 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 300 | U | 300 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 14 | U | 14 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 16 | U | 16 | |
| 110-54-3 | n-Hexane | 86.17 | 14 | U | 14 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 16 | U | 16 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 29 | U | 29 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 4.0 | U | 4.0 | |
| 67-66-3 | Chloroform | 119.38 | 20 | U | 20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 290 | U | 290 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 22 | U | 22 | |
| 110-82-7 | Cyclohexane | 84.16 | 14 | U | 14 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 4.4 | U | 4.4 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 19 | U | 19 | |
| 71-43-2 | Benzene | 78.11 | 13 | U | 13 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 16 | U | 16 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 17 | | 16 | |
| 79-01-6 | Trichloroethene | 131.39 | 3.8 | U | 3.8 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 41 | U | 41 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 18 | U | 18 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 360 | U | 360 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 27 | U | 27 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 18 | U | 18 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 41 | U | 41 | |
| 108-88-3 | Toluene | 92.14 | 15 | U | 15 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 18 | U | 18 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 22 | U | 22 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 27 | U | 27 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 41 | U | 41 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 34 | U | 34 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 31 | U | 31 | |
| 108-90-7 | Chlorobenzene | 112.56 | 18 | U | 18 | |
| 100-41-4 | Ethylbenzene | 106.17 | 17 | U | 17 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 43 | U | 43 | |
| 95-47-6 | o-Xylene | 106.17 | 17 | U | 17 | |
| 100-42-5 | Styrene | 104.15 | 17 | U | 17 | |
| 75-25-2 | Bromoform | 252.75 | 41 | U | 41 | |
| 98-82-8 | Cumene | 120.19 | 20 | U | 20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 27 | U | 27 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 20 | U | 20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 20 | U | 20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 20 | U | 20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 21 | U | 21 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 22 | U | 22 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 20 | U | 20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 22 | U | 22 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 22 | U | 22 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 24 | U | 24 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 24 | U | 24 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120  Lab Sample ID: 200-46353-8

Matrix: Air  Lab File ID: 200-33531-024.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL)  Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol:  Dilution Factor: 20

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 21 | U | 21 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 22 | U | 22 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 24 | U | 24 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 74 | U | 74 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 43 | U | 43 | |
| 91-20-3 | Naphthalene | 128.17 | 52 | U | 52 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D
Lims ID: 200-46353-A-8
Client ID: MP-2_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 09:23:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 200.000 mL Dil. Factor: 20.0000
Sample Info: 200-0033531-024
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:38:44 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: guazzonig Date: 06-Dec-2018 13:43:50

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.153 | -0.011 | 95 | 9313 | 0.0451 | |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | ND | U |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.337 | -0.011 | 92 | 5450 | 0.0351 | |
| 5 Chloromethane | 50 | | 3.465 | | | | ND | |
| 6 Butane | 43 | 3.593 | 3.598 | -0.011 | 88 | 12390 | 0.2293 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.765 | 4.754 | 0.005 | 82 | 9979 | 0.0612 | M |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.605 | | | | ND | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.883 | 5.853 | 0.027 | 100 | 48357 | 1.12 | |
| 23 Carbon disulfide | 76 | 6.022 | 6.001 | 0.005 | 49 | 2934 | 0.0226 | |
| 24 Isopropyl alcohol | 45 | | 6.097 | | | | ND | Ua |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | U |
| 27 Methylene Chloride | 49 | | 6.557 | | | | ND | Ua |
| 28 2-Methyl-2-propanol | 59 | 6.819 | 6.819 | 0.048 | 83 | 9298 | 0.1278 | M |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | ND | U |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | ND | U |
| 33 Hexane | 57 | | 7.279 | | | | ND | U |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | | 8.793 | | | | ND | U |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.152 | -0.006 | 73 | 553071 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | U |
| 42 Chloroform | 83 | 9.259 | 9.275 | -0.010 | 51 | 5971 | 0.0517 | M |
| 43 Cyclohexane | 84 | 9.531 | 9.531 | 0.000 | 69 | 3301 | 0.0573 | M |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | |
| 45 Carbon tetrachloride | 117 | | 9.783 | | | | ND | |
| 46 Isooctane | 57 | 10.189 | 10.189 | -0.006 | 60 | 3587 | 0.0188 | M |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | | 10.216 | | | | ND | U |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| | 49 n-Heptane | 43 | 10.569 | 10.559 | -0.006 | 91 | 14307 | 0.2080 | M |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2510211 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.484 | | | | ND | U |
| | 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | U |
| | 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | U |
| | 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 92 | 14908 | 0.1404 | M |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| | 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 15.127 | 15.143 | -0.016 | 92 | 7769 | 0.0611 | |
| | 69 2-Hexanone | 43 | | 15.507 | | | | ND | MU |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | U |
| * | 74 Chlorobenzene-d5 | 117 | 16.951 | 16.957 | -0.006 | 84 | 2621499 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | | 17.182 | | | | ND | U |
| | 78 m-Xylene & p-Xylene | 106 | | 17.433 | | | | ND | U |
| | 79 o-Xylene | 106 | | 18.294 | | | | ND | MU |
| | 80 Styrene | 104 | | 18.337 | | | | ND | U |
| | 81 Bromoform | 173 | | 18.781 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 19.049 | | | | ND | U |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | | 19.846 | | | | ND | U |
| | 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | U |
| | 88 4-Ethyltoluene | 105 | | 20.054 | | | | ND | U |
| | 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.167 | -0.005 | 43 | 6353 | 0.0272 | |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.005 | 45 | 3630 | 0.0157 | a |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | MU |
| | 95 4-Isopropyltoluene | 119 | | 21.269 | | | | ND | U |
| | 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | | 21.418 | | | | ND | U |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| | 105 Naphthalene | 128 | | 24.778 | | | | ND | U |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

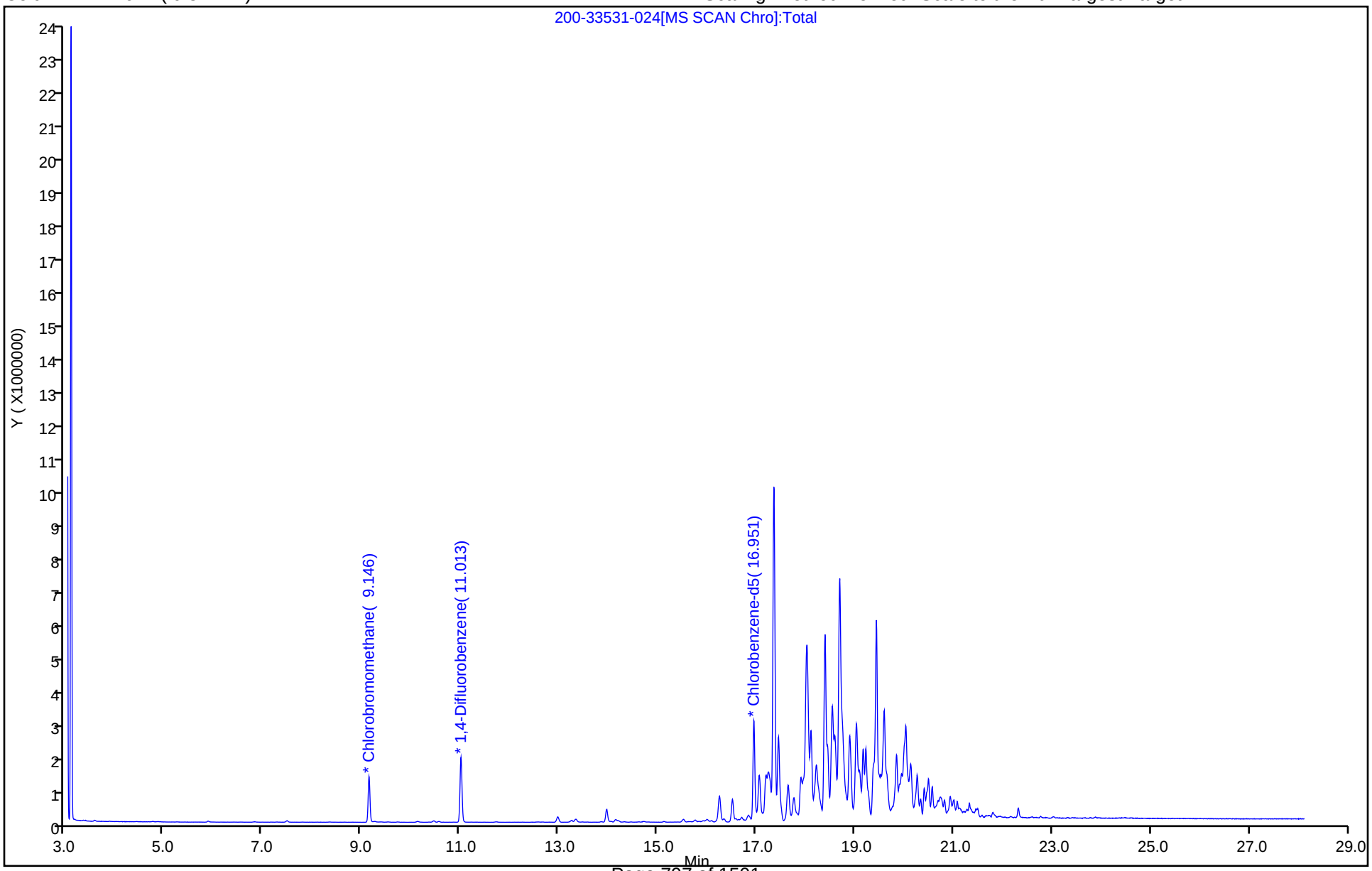
Report Date: 07-Dec-2018 09:38:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | Worklist Smp#: | 24 |
| Client ID: | MP-2_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | ALS Bottle#: | 24 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



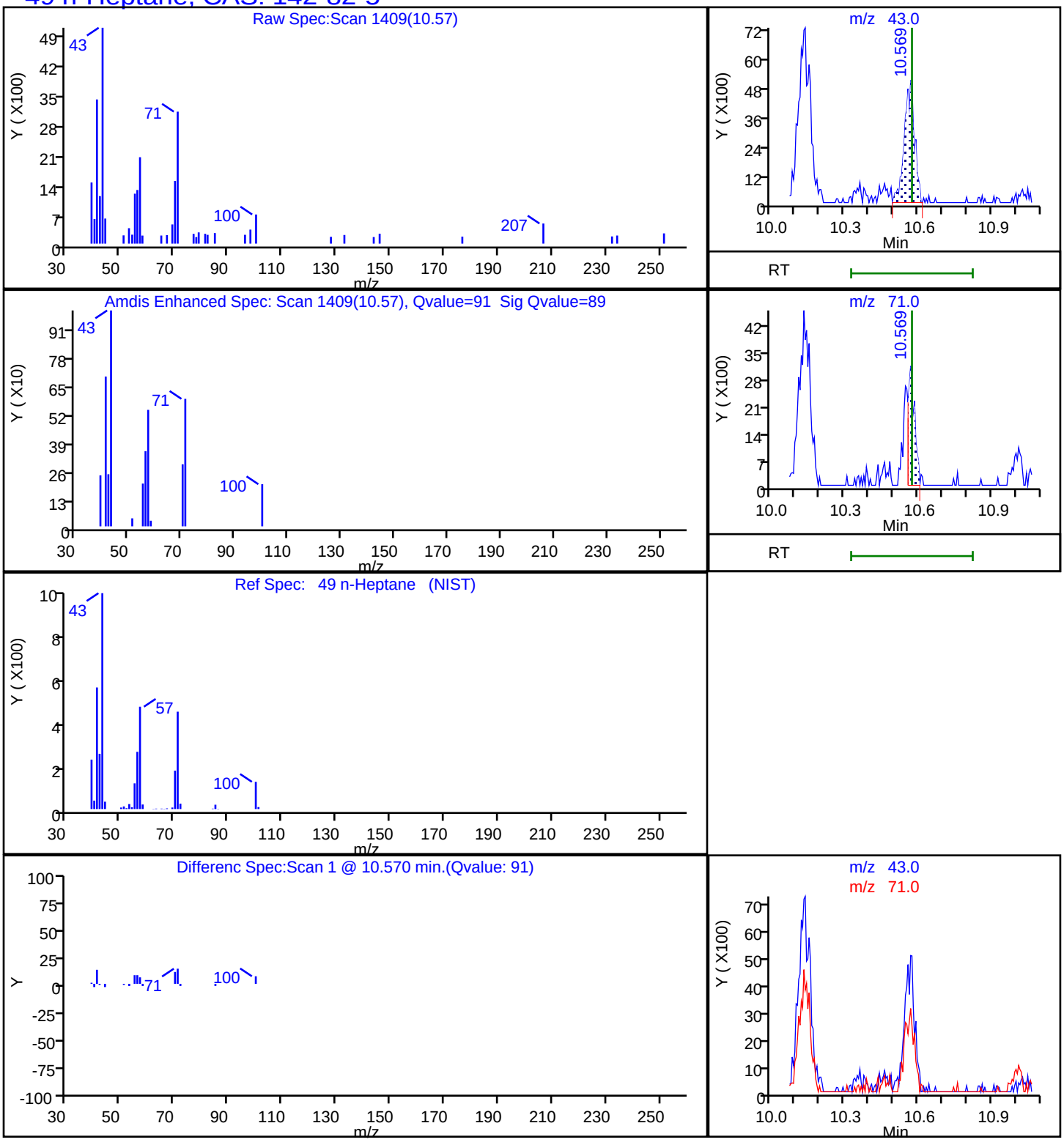
Report Date: 07-Dec-2018 09:38:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



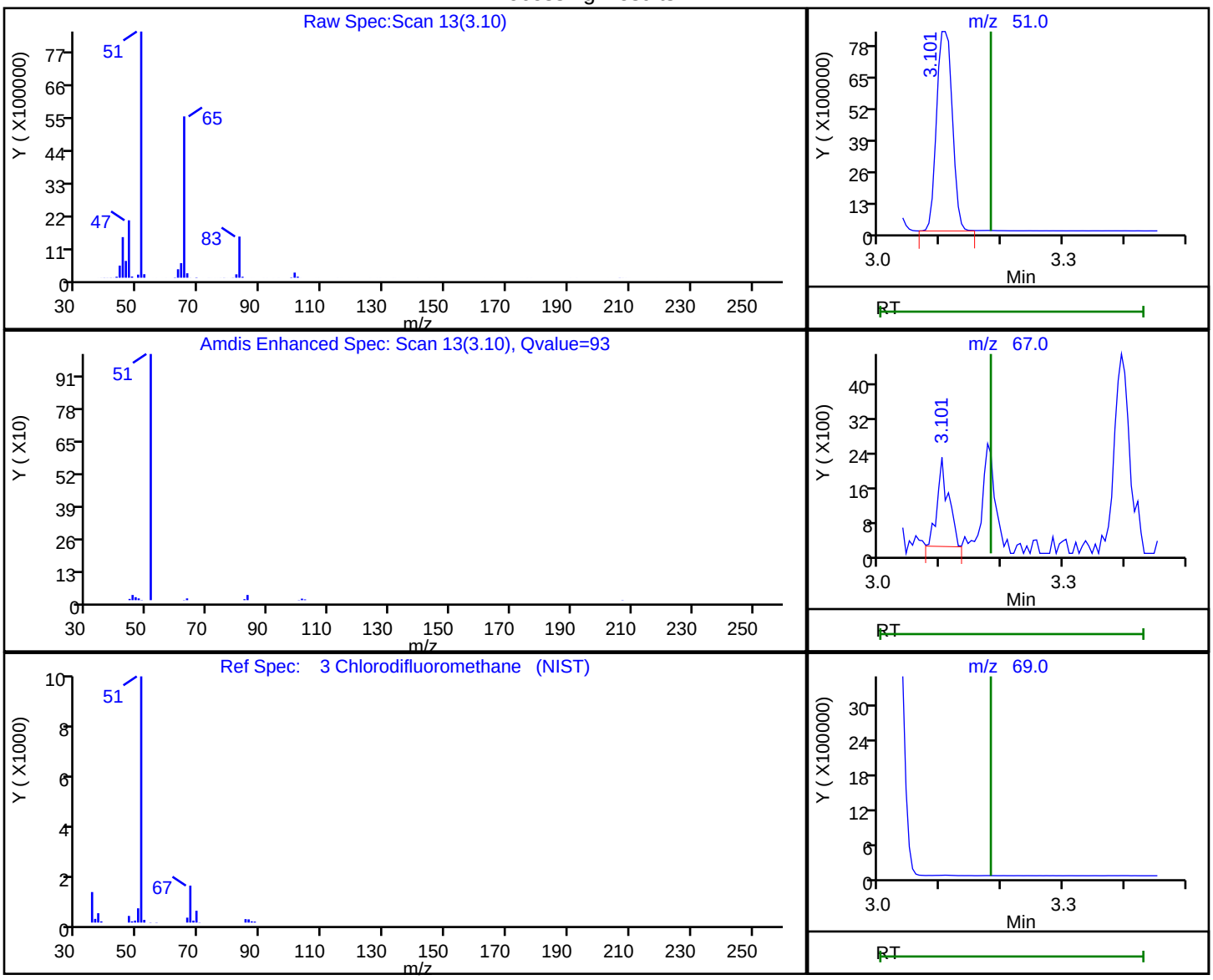
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.10 | 51.00 | 15035514 | 171.1755 |
| 3.10 | 67.00 | 2643 | |
| 3.18 | 69.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:41:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

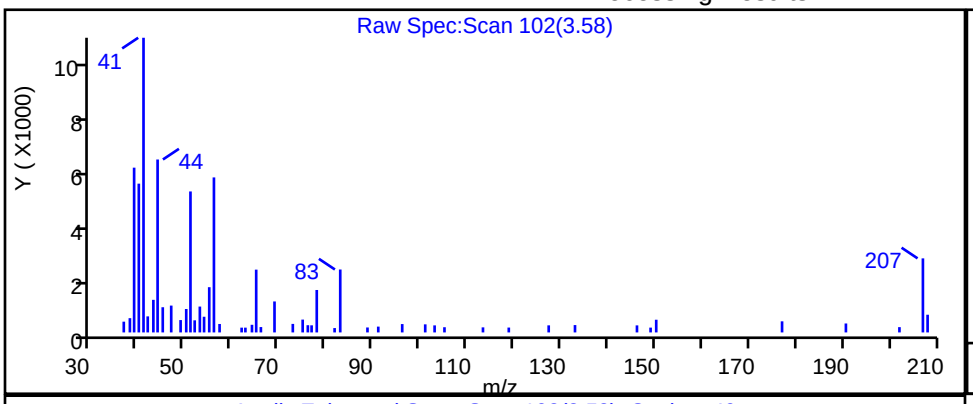
User Disabled Compound Report

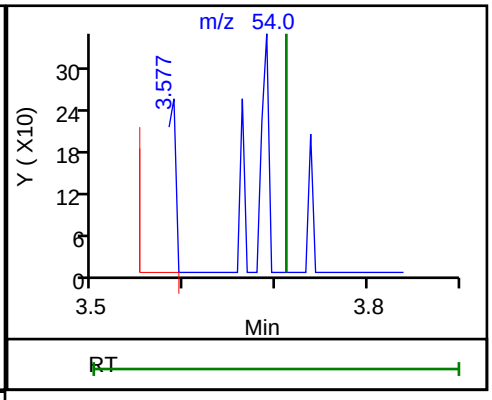
TestAmerica Burlington

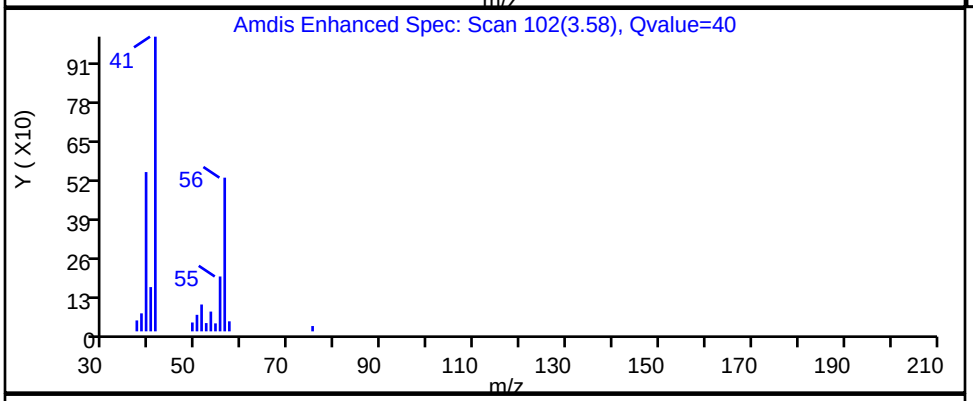
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

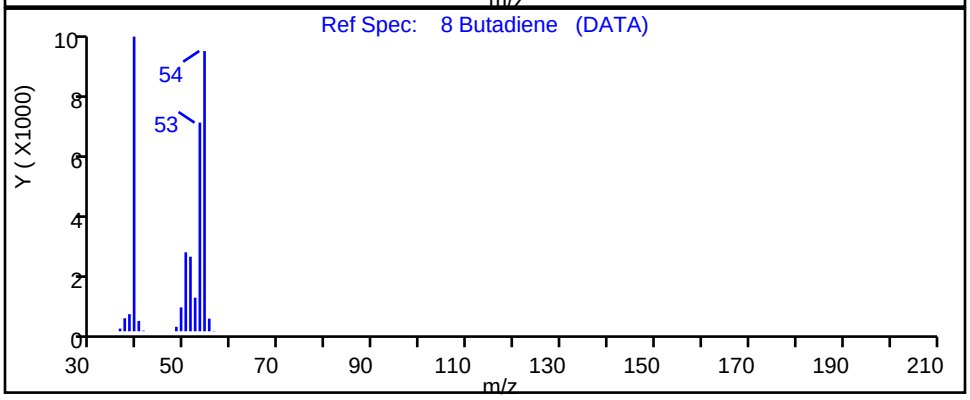
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.58 | 54.00 | 567 | 0.018857 |

Reviewer: guazzonig, 06-Dec-2018 13:41:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

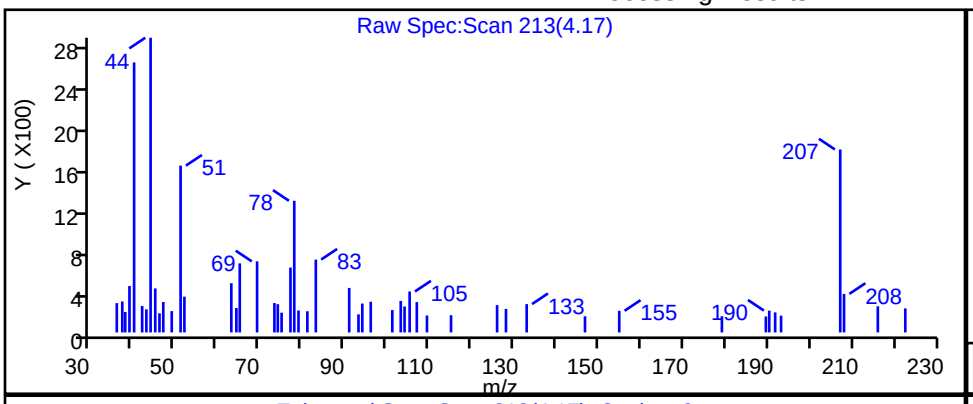
User Disabled Compound Report

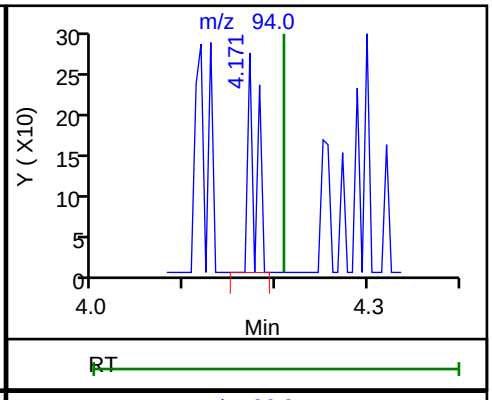
TestAmerica Burlington

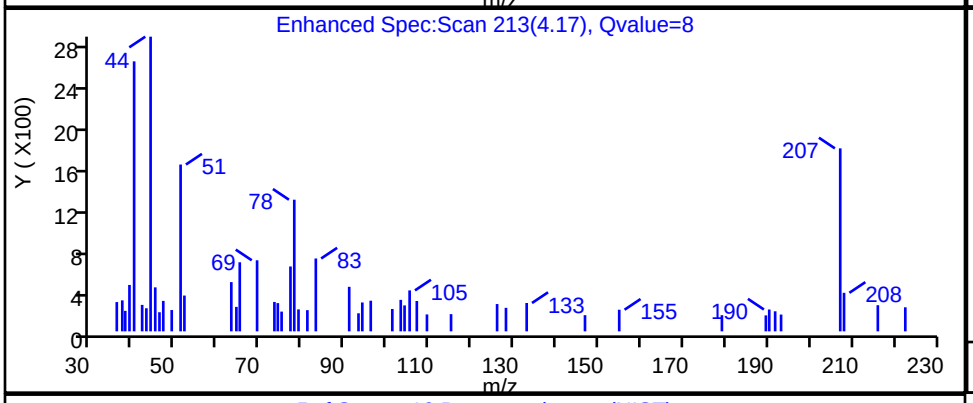
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

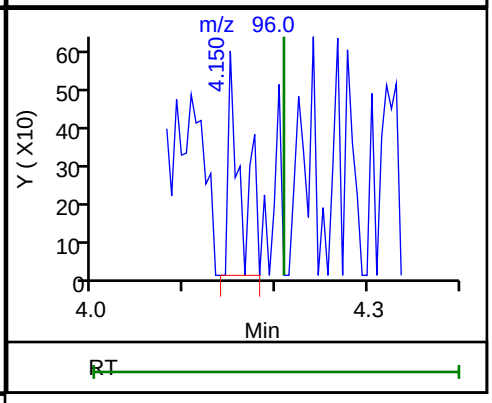
## 10 Bromomethane, CAS: 74-83-9

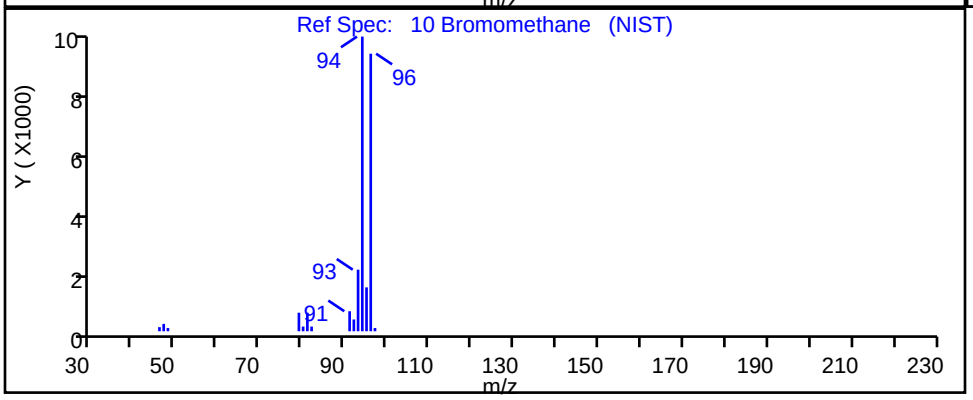
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.17 | 94.00 | 164 | 0.002939 |
| 4.15 | 96.00 | 582 | |

Reviewer: bunmaa, 07-Dec-2018 09:32:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

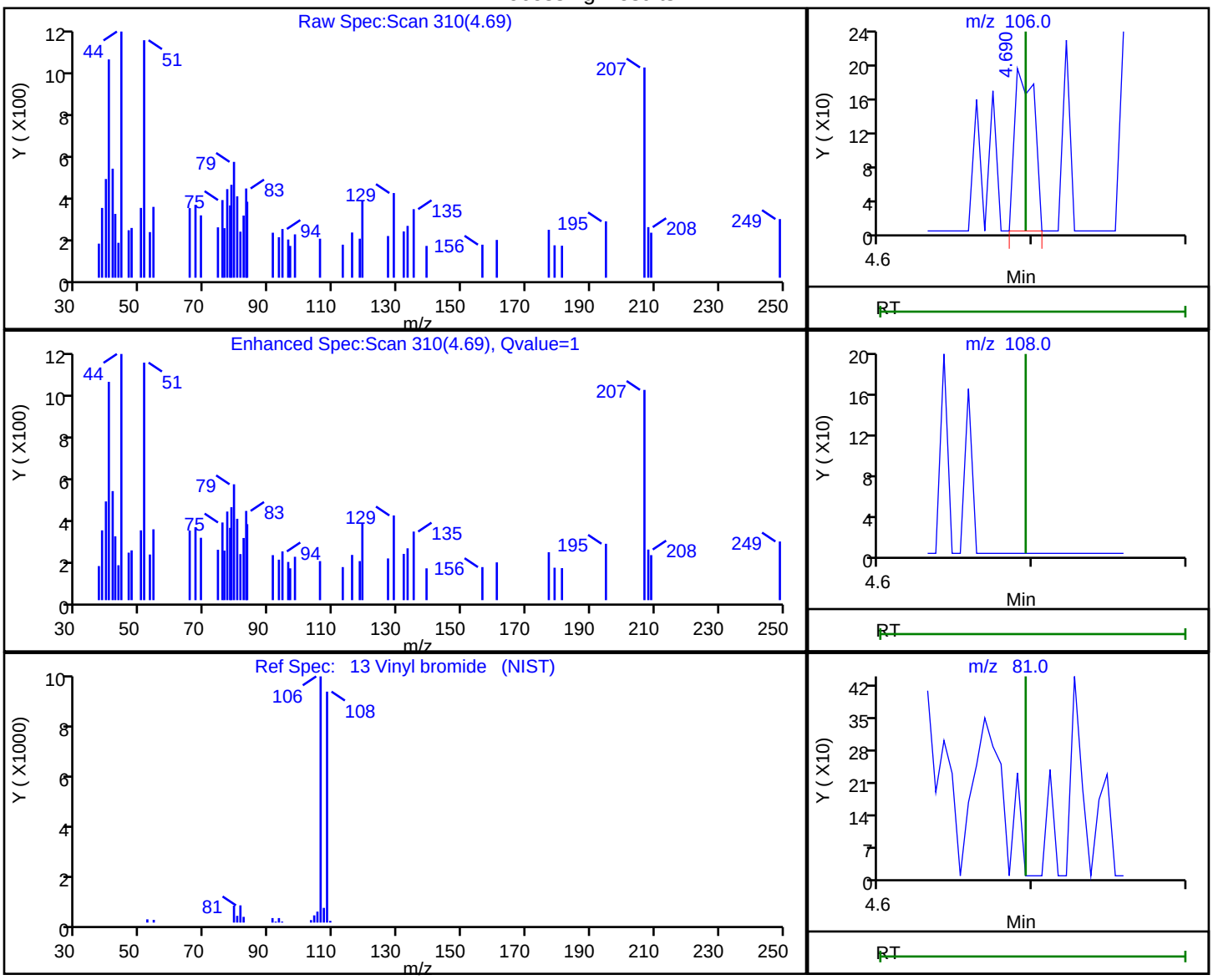
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.69 | 106.00 | 167 | 0.003027 |
| 4.70 | 108.00 | 0 | |
| 4.70 | 81.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:32:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

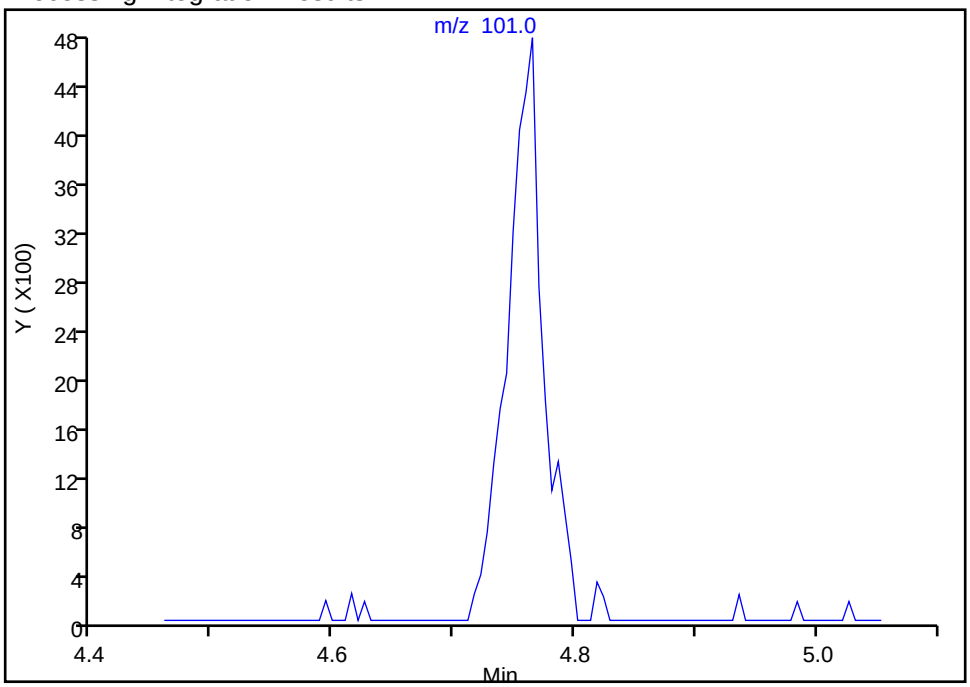
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

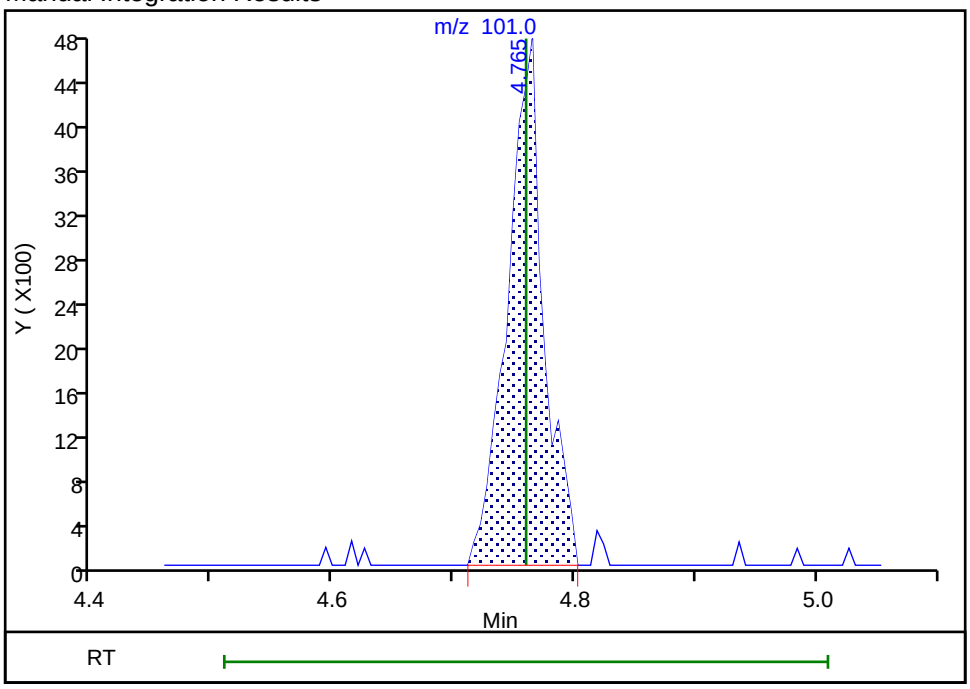
Not Detected
Expected RT: 4.76

Processing Integration Results




Manual Integration Results

RT: 4.76
Area: 9979
Amount: 0.061198
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:41:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

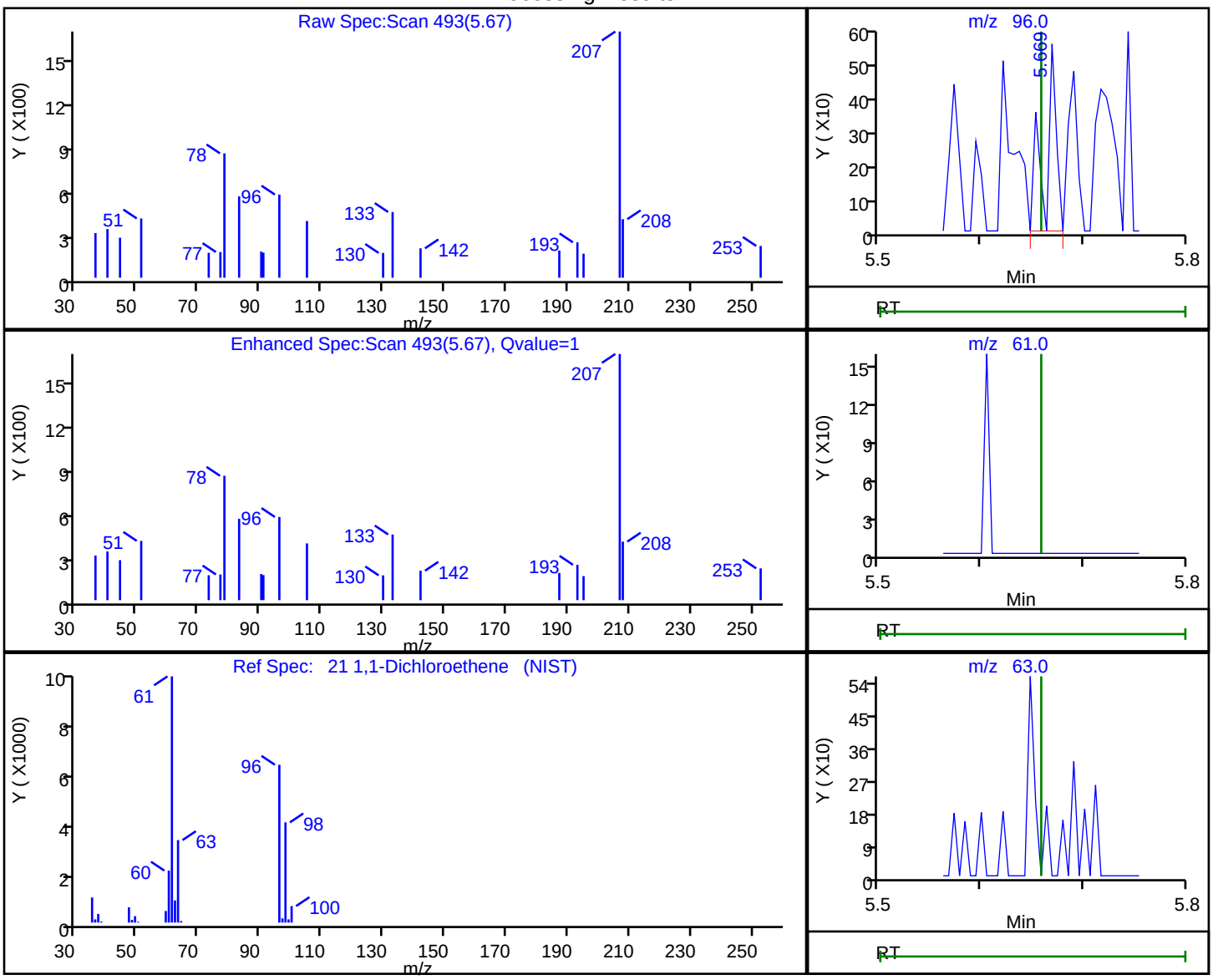
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.67 | 96.00 | 416 | 0.008228 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:41:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

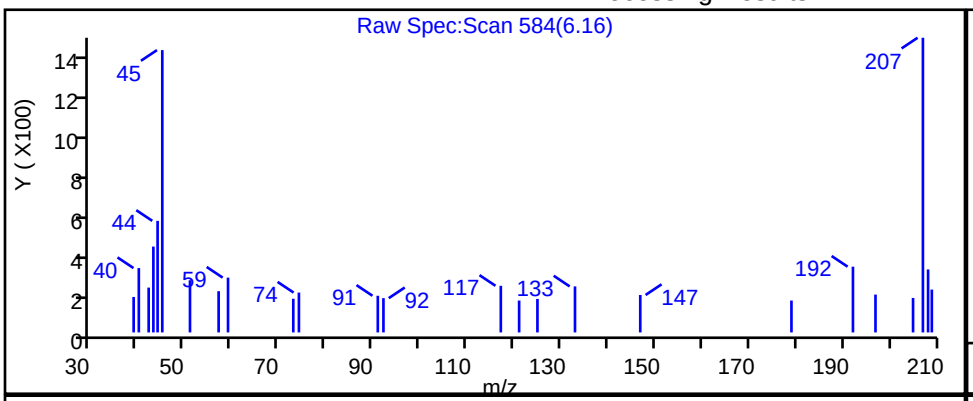
User Disabled Compound Report

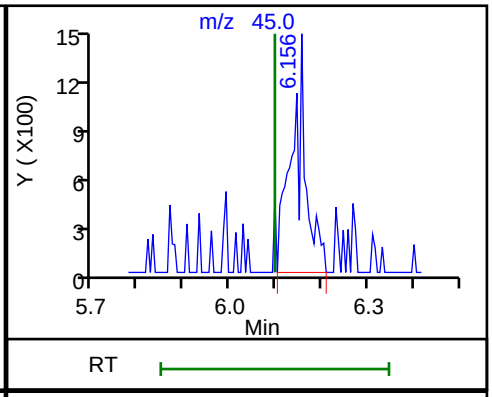
TestAmerica Burlington

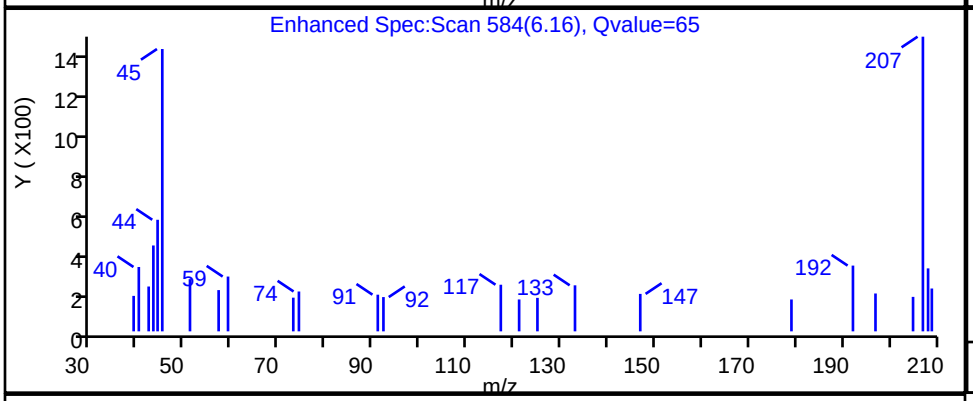
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

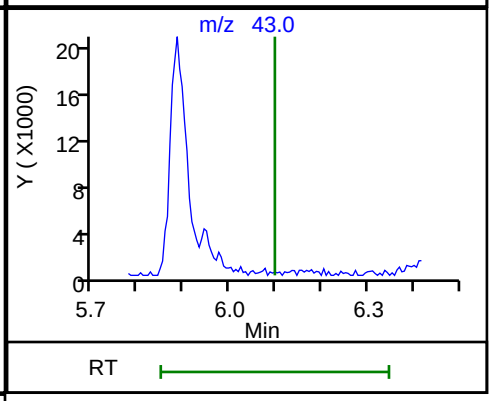
## 24 Isopropyl alcohol, CAS: 67-63-0

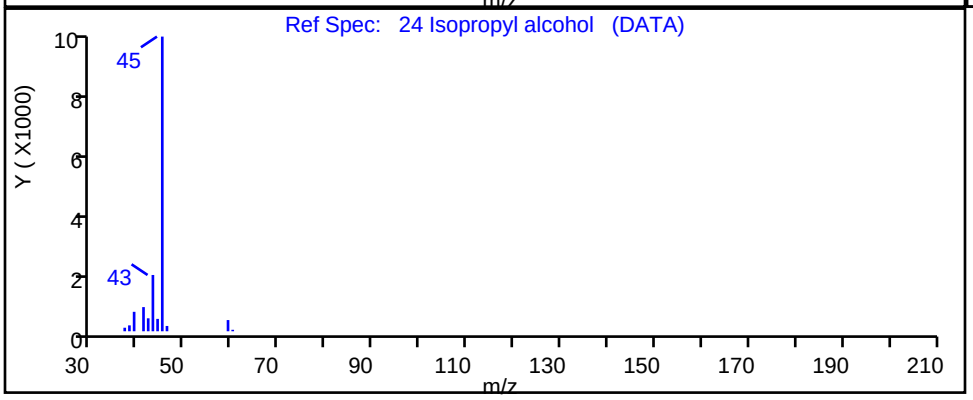
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.16 | 45.00 | 3049 | 0.064081 |
| 6.10 | 43.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:32:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

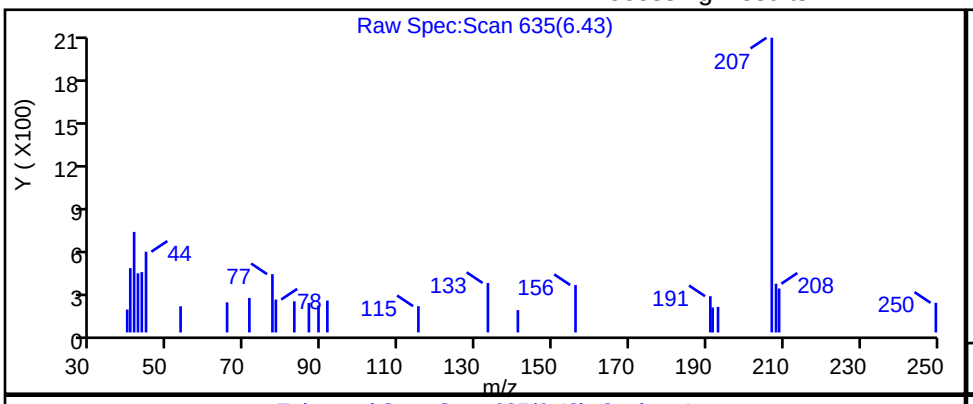
User Disabled Compound Report

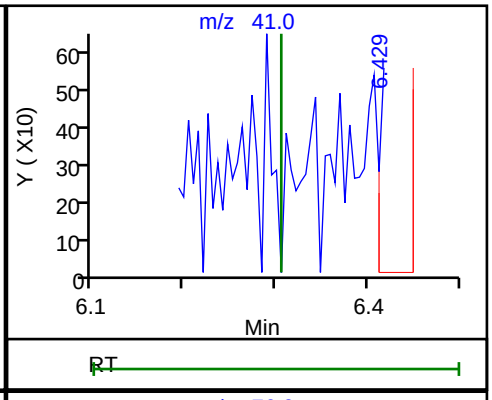
TestAmerica Burlington

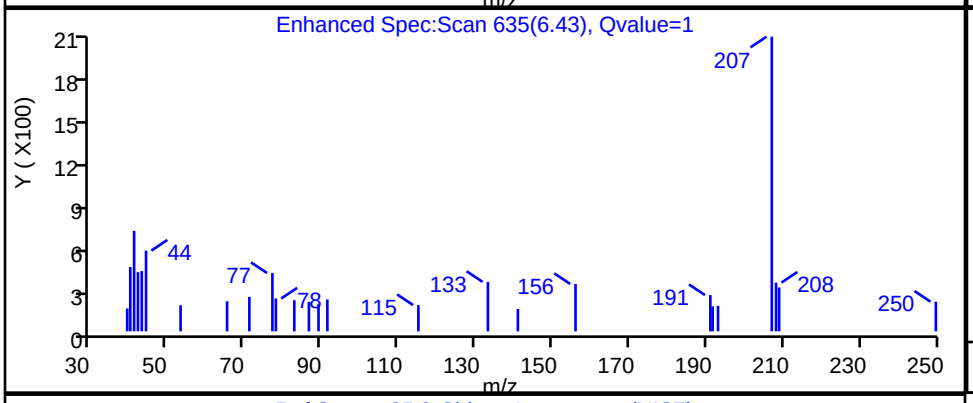
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

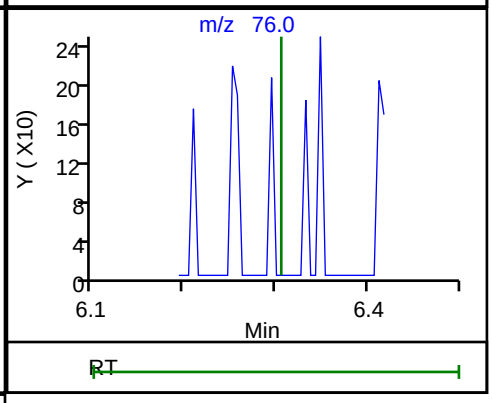
## 25 3-Chloro-1-propene, CAS: 107-05-1

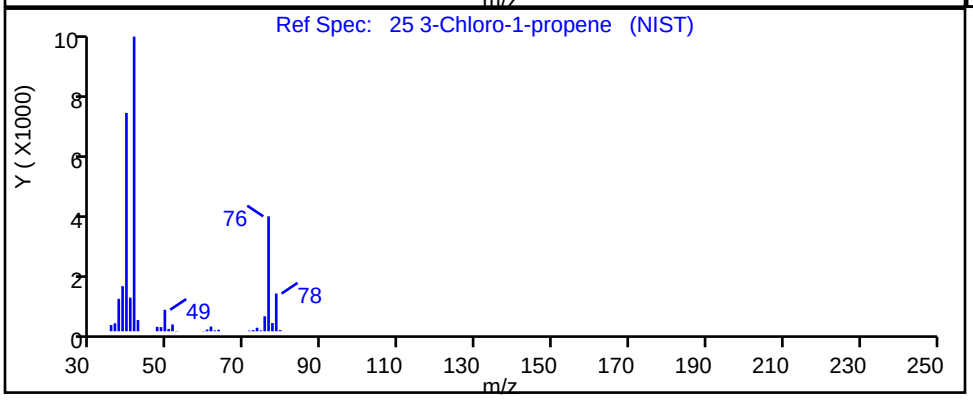
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.43 | 41.00 | 1198 | 0.031849 |
| 6.31 | 76.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:33:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

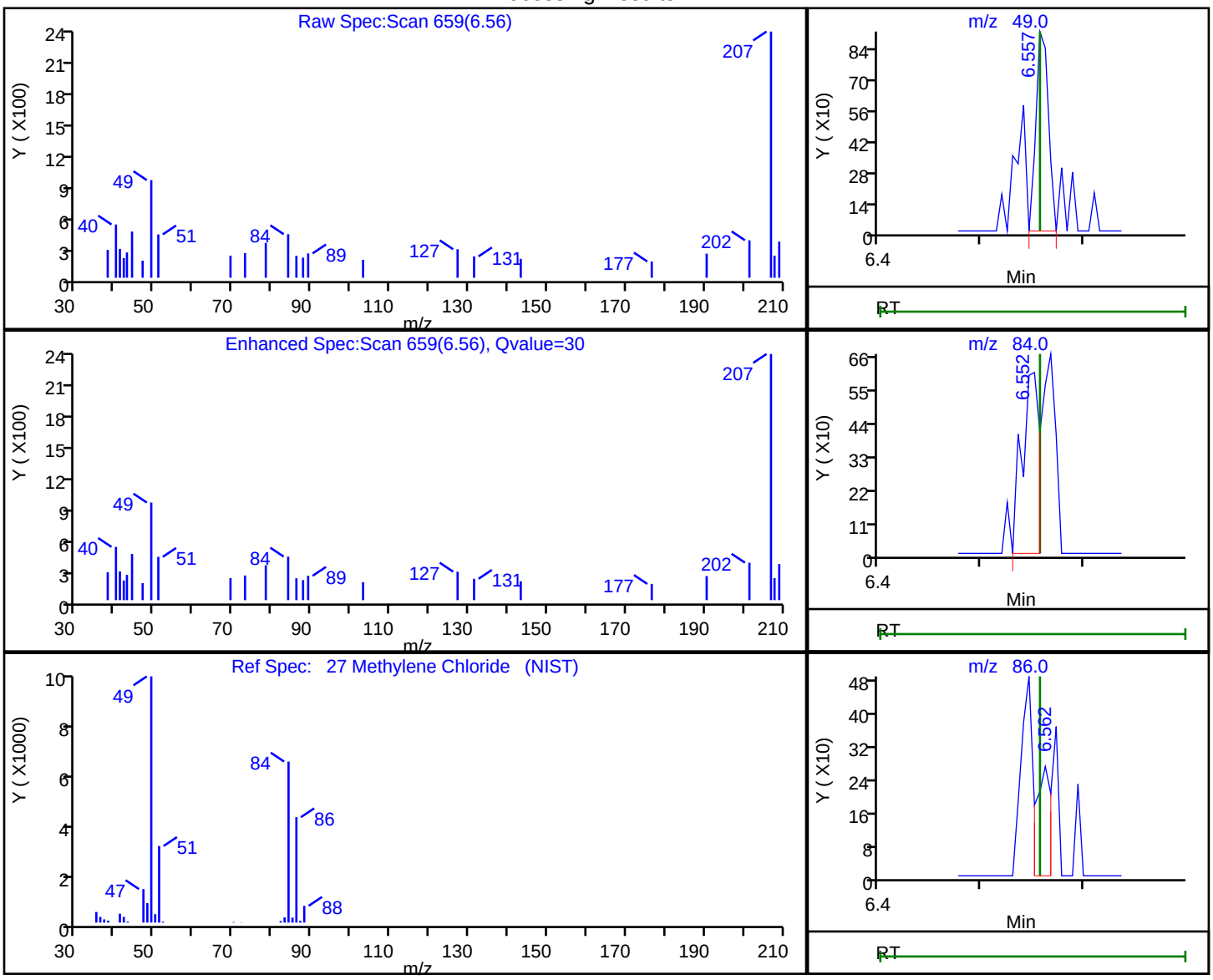
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.56 | 49.00 | 779 | 0.017073 |
| 6.55 | 84.00 | 728 | |
| 6.56 | 86.00 | 271 | |

Reviewer: bunmaa, 07-Dec-2018 09:33:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

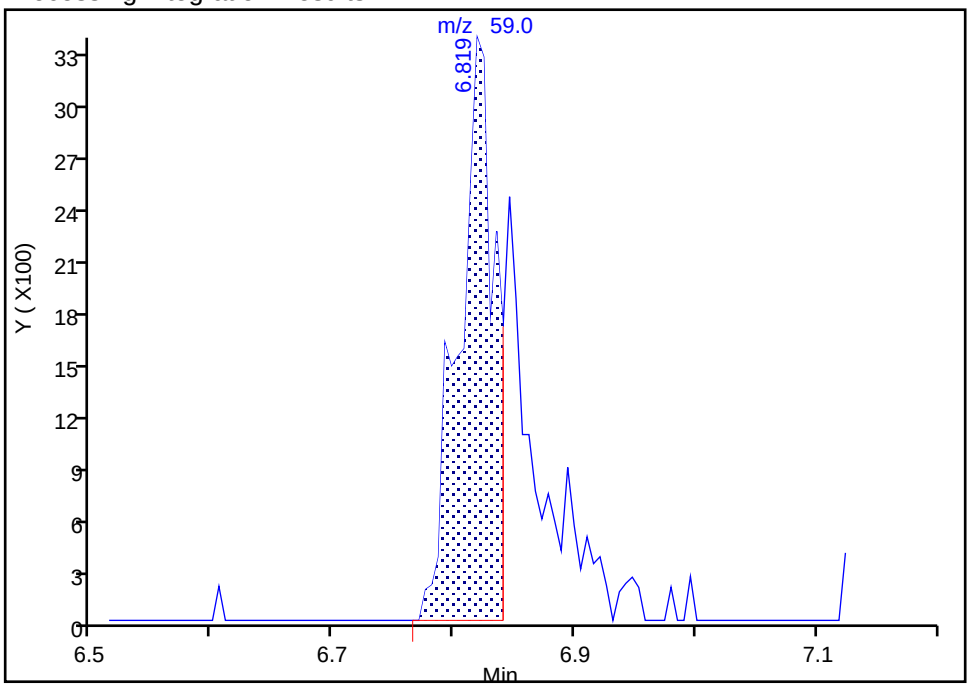
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

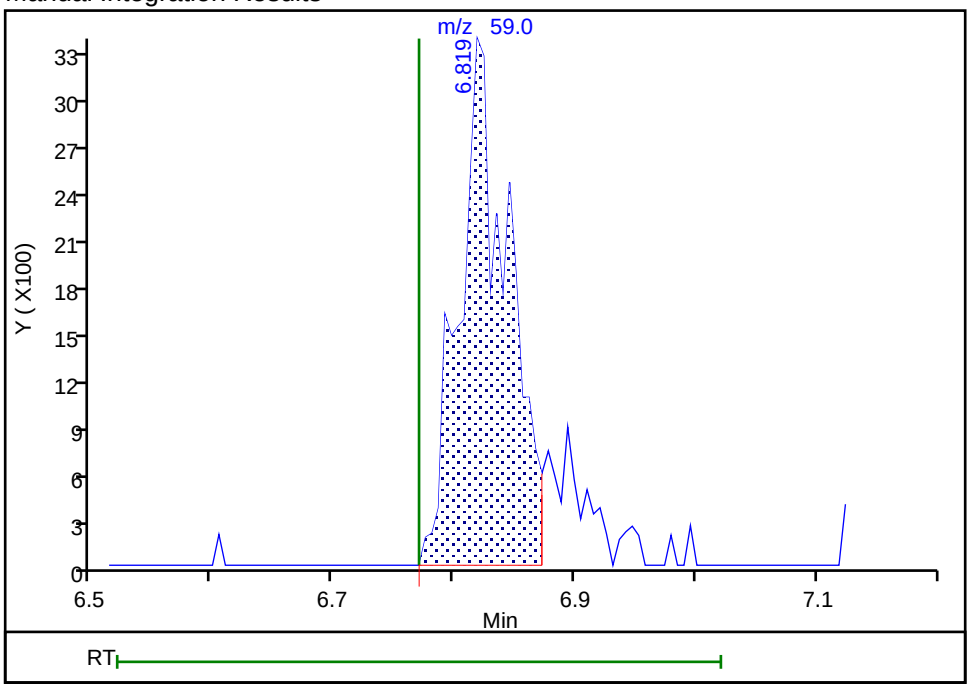
Processing Integration Results

RT: 6.82
Area: 6845
Amount: 0.094096
Amount Units: ppb v/v




Manual Integration Results

RT: 6.82
Area: 9298
Amount: 0.127817
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:33:40

Audit Action: Manually Integrated Audit Reason: Assign Peak

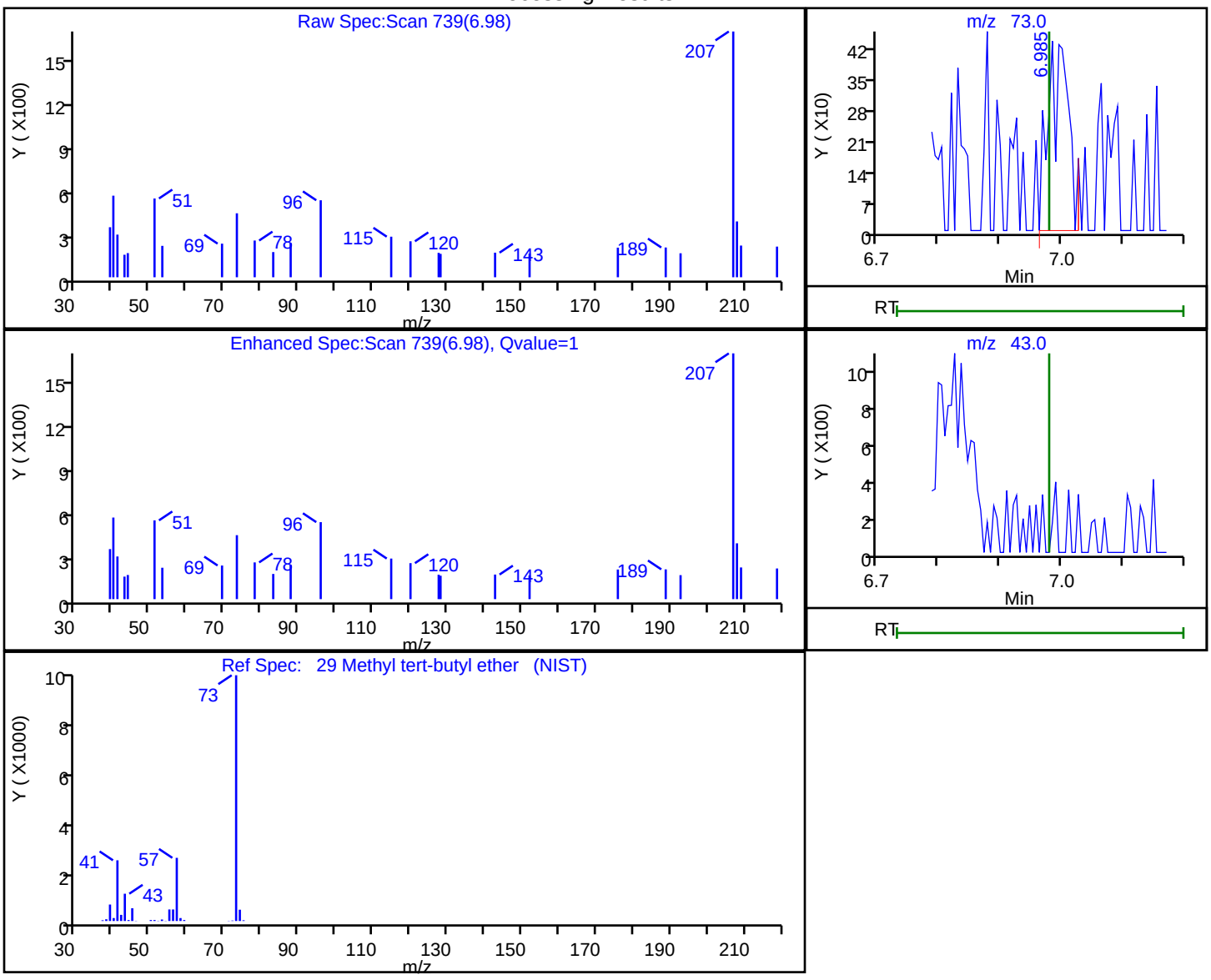
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.98 | 73.00 | 1009 | 0.010266 |
| 6.98 | 43.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:42:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

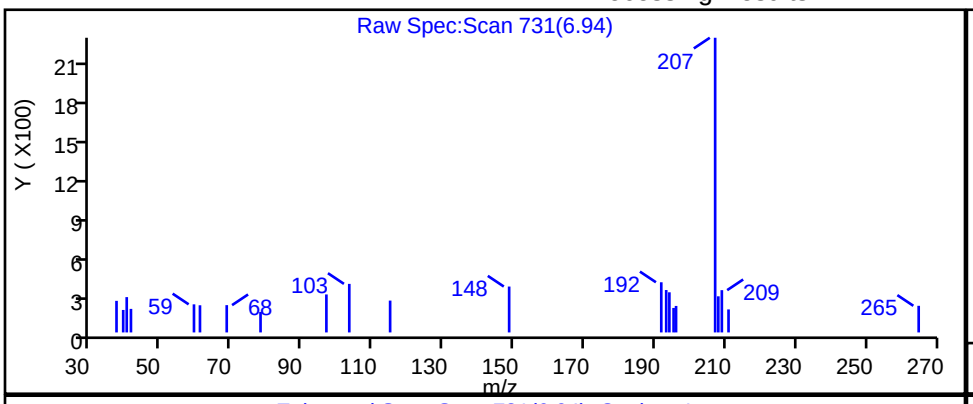
User Disabled Compound Report

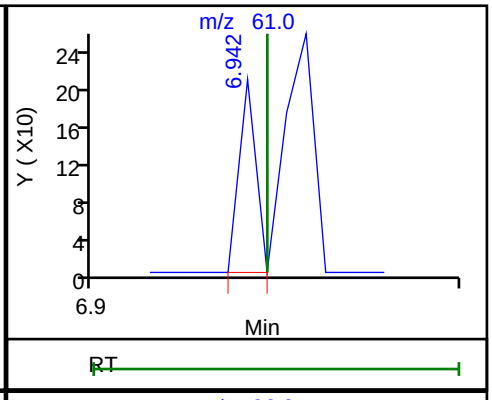
TestAmerica Burlington

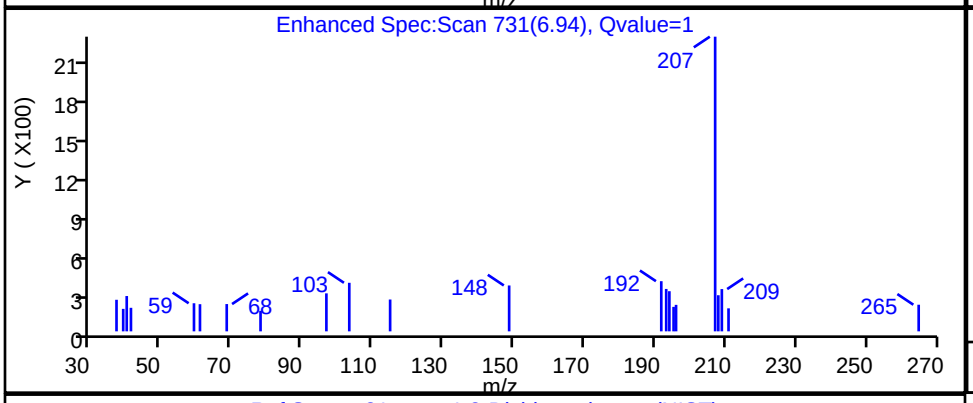
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

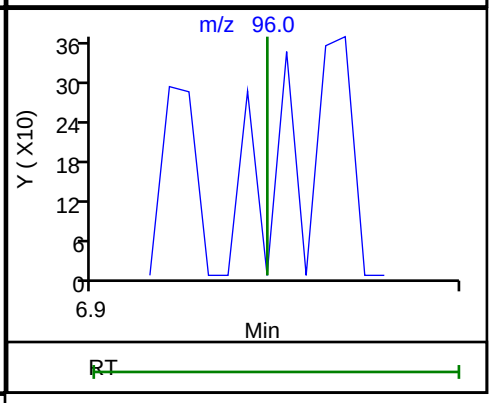
## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

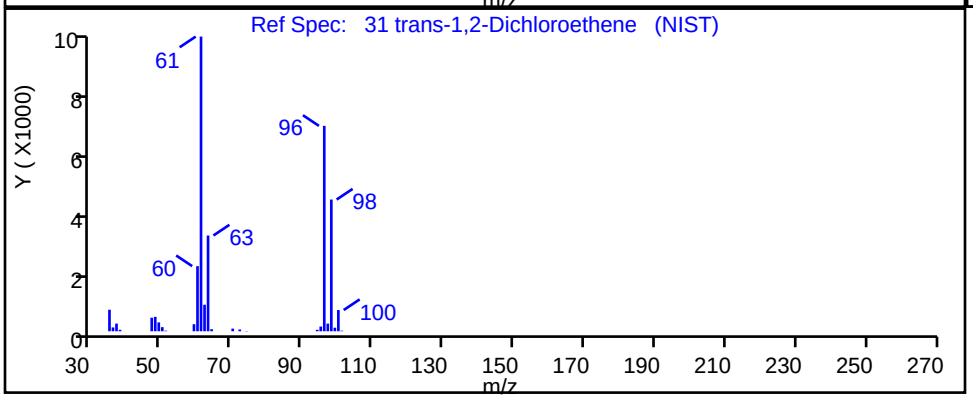
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.94 | 61.00 | 65 | 0.001061 |
| 6.95 | 96.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:42:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

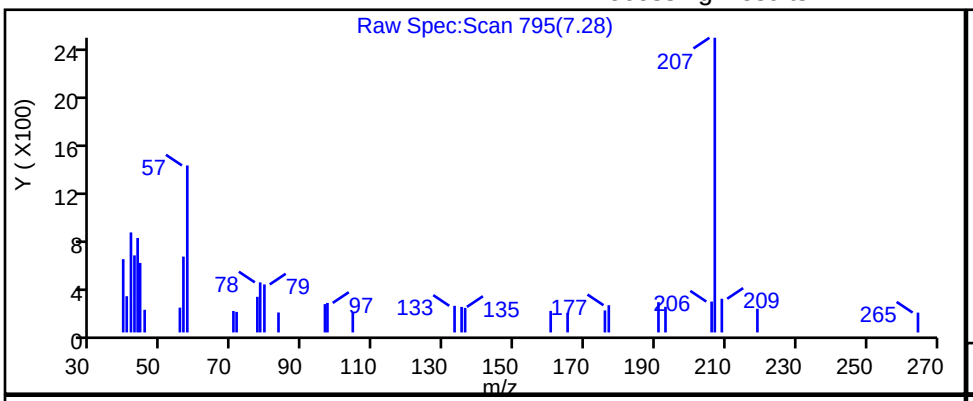
User Disabled Compound Report

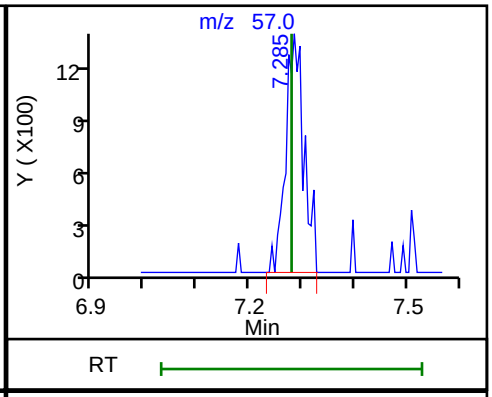
TestAmerica Burlington

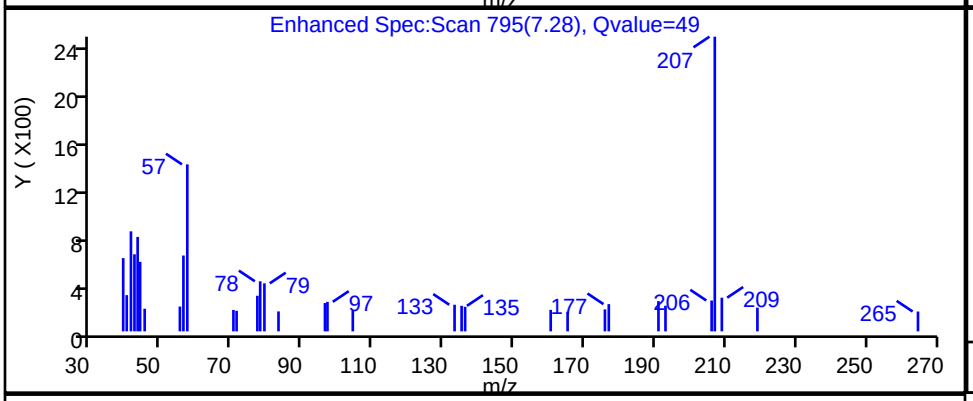
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

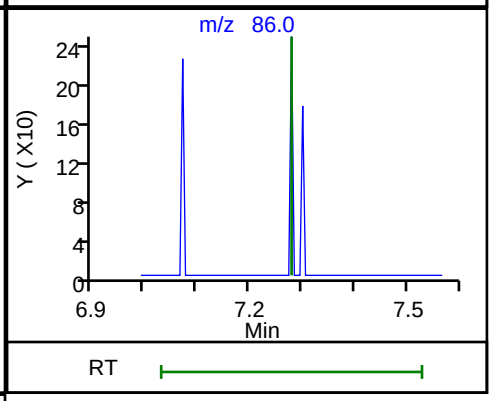
## 33 Hexane, CAS: 110-54-3

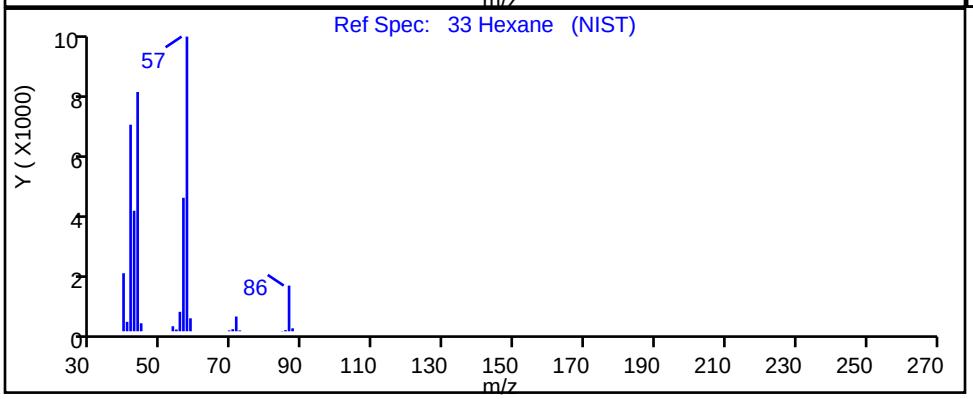
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.28 | 57.00 | 3298 | 0.067543 |
| 7.28 | 86.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:33:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

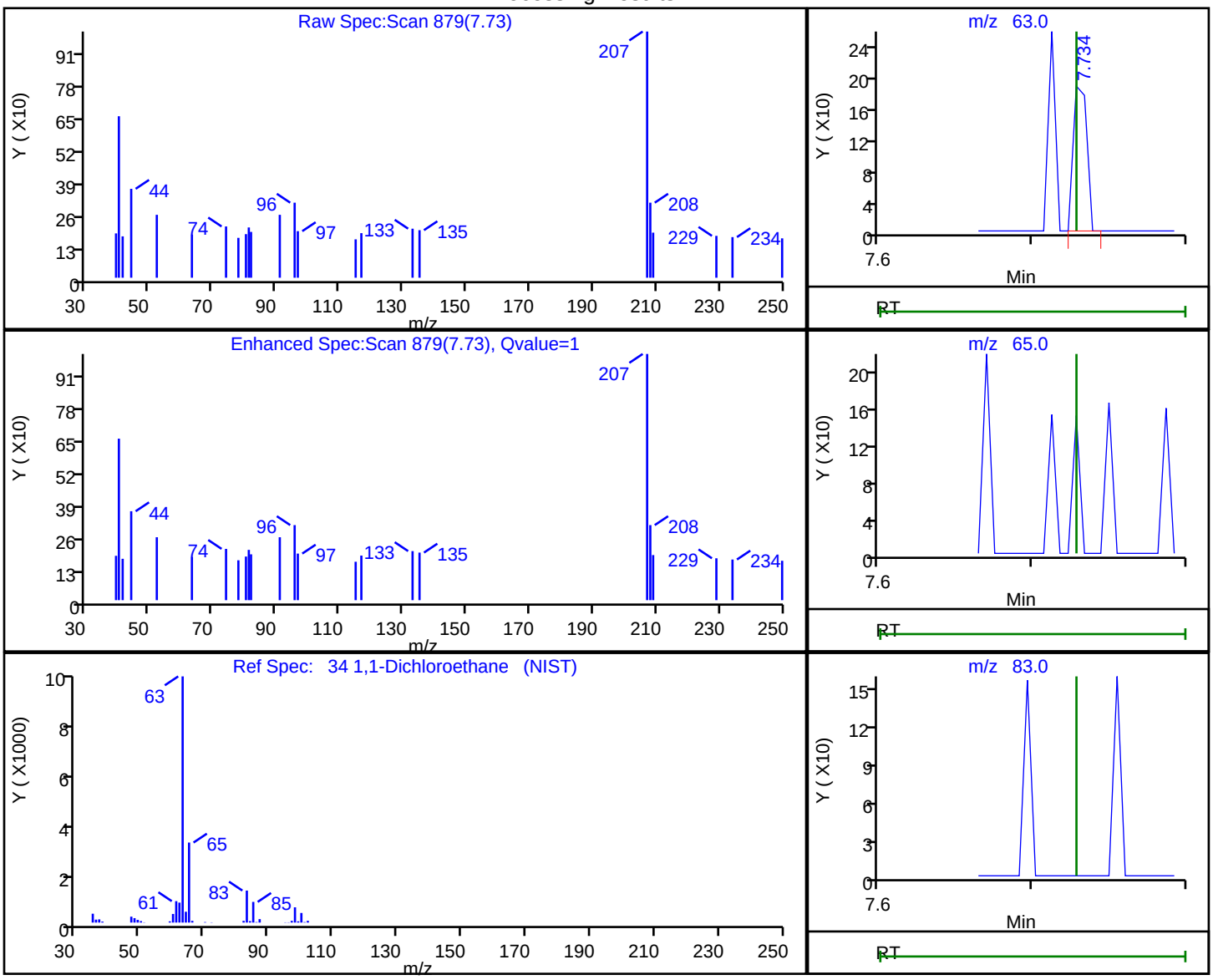
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.73 | 63.00 | 116 | 0.001467 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:33:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

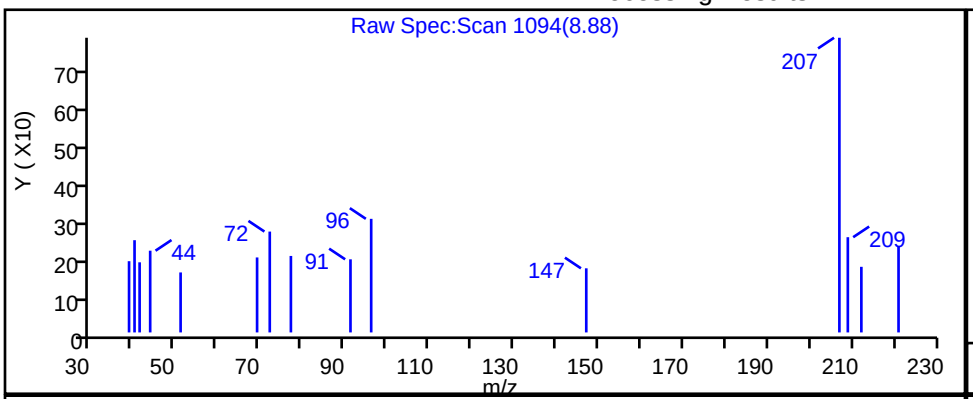
User Disabled Compound Report

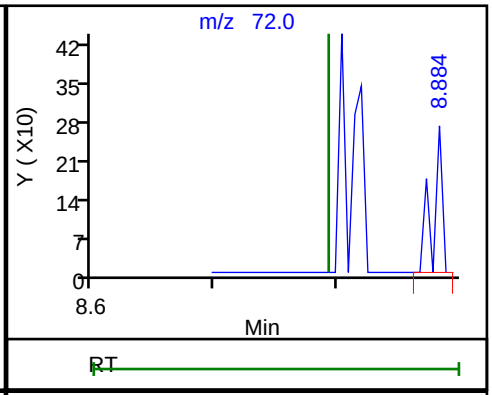
TestAmerica Burlington

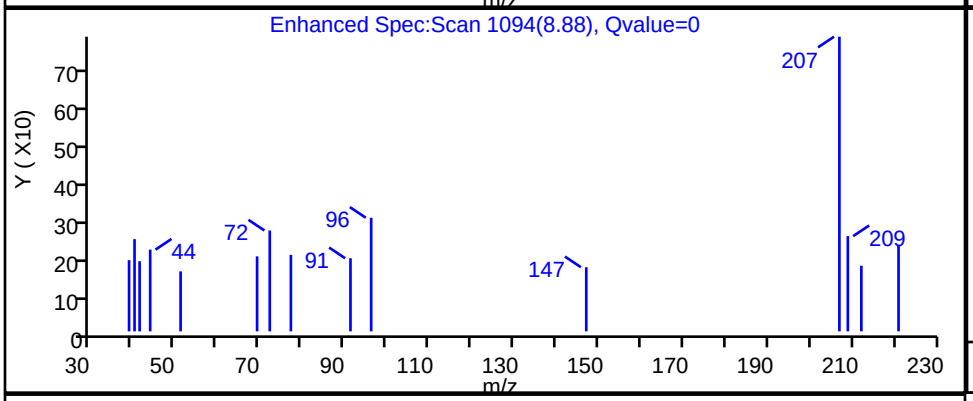
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

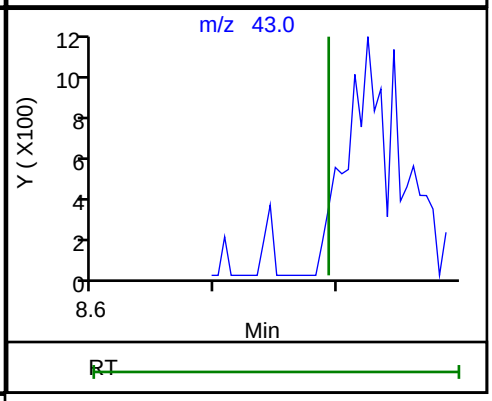
## 38 2-Butanone (MEK), CAS: 78-93-3

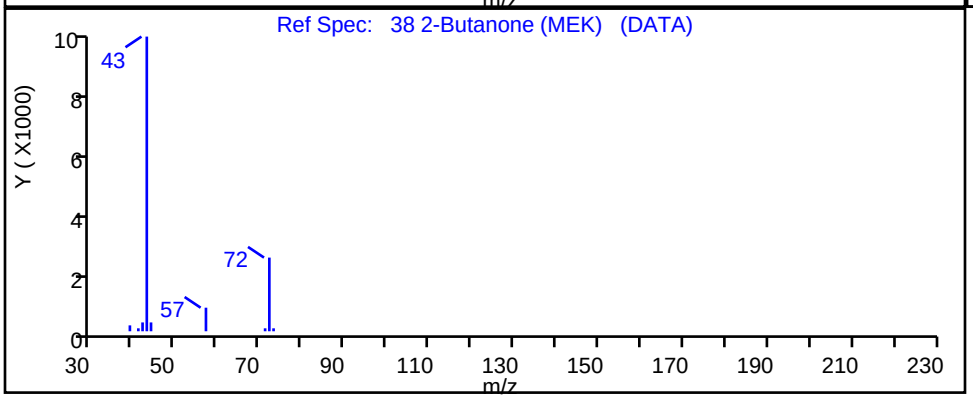
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.88 | 72.00 | 142 | 0.009190 |
| 8.86 | 43.00 | 1589 | |

Reviewer: bunmaa, 07-Dec-2018 09:34:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

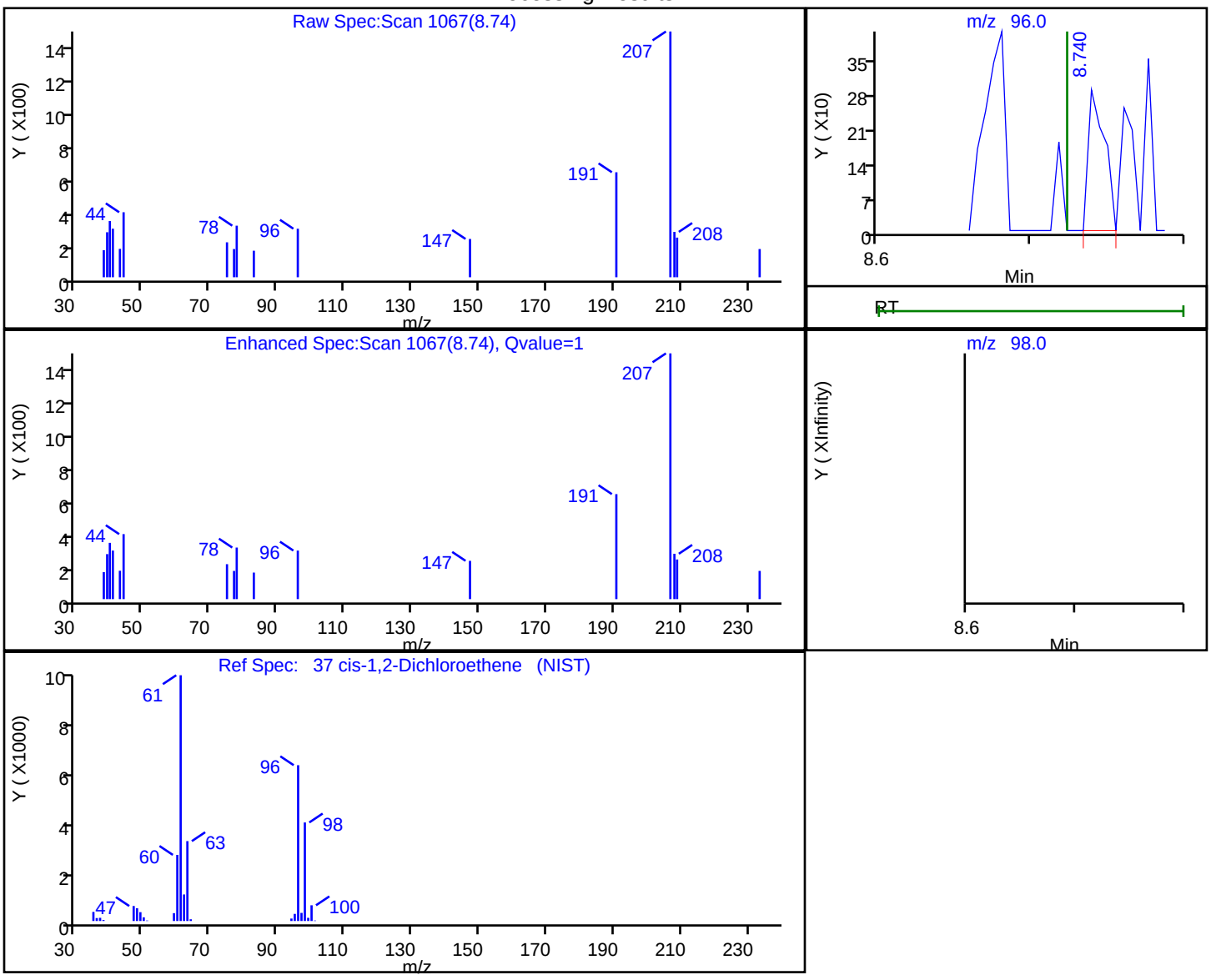
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.74 | 96.00 | 217 | 0.004531 |
| 8.72 | 98.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:34:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

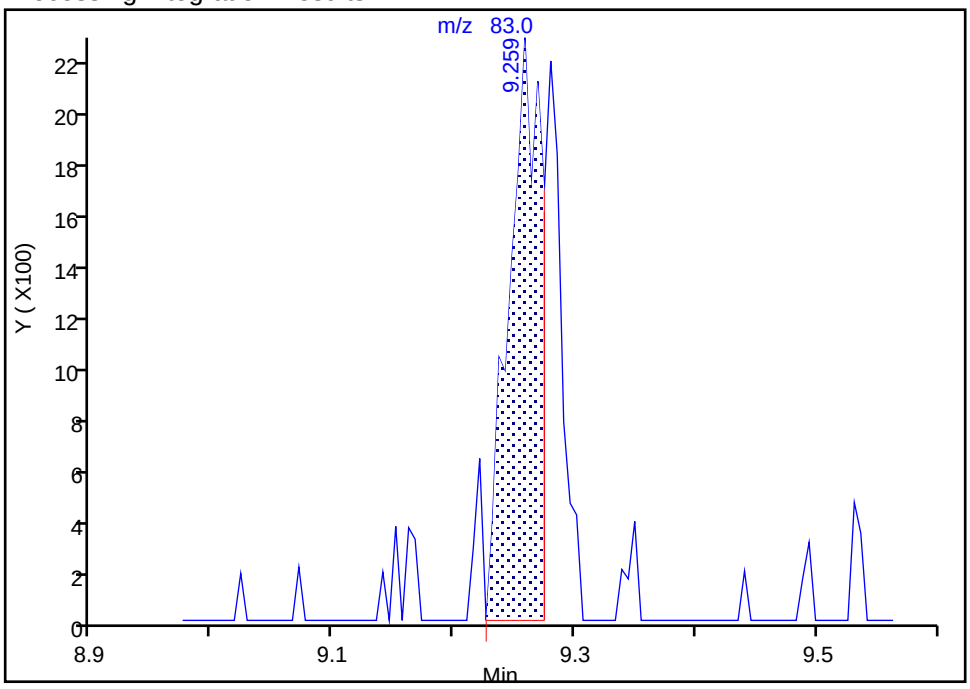
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

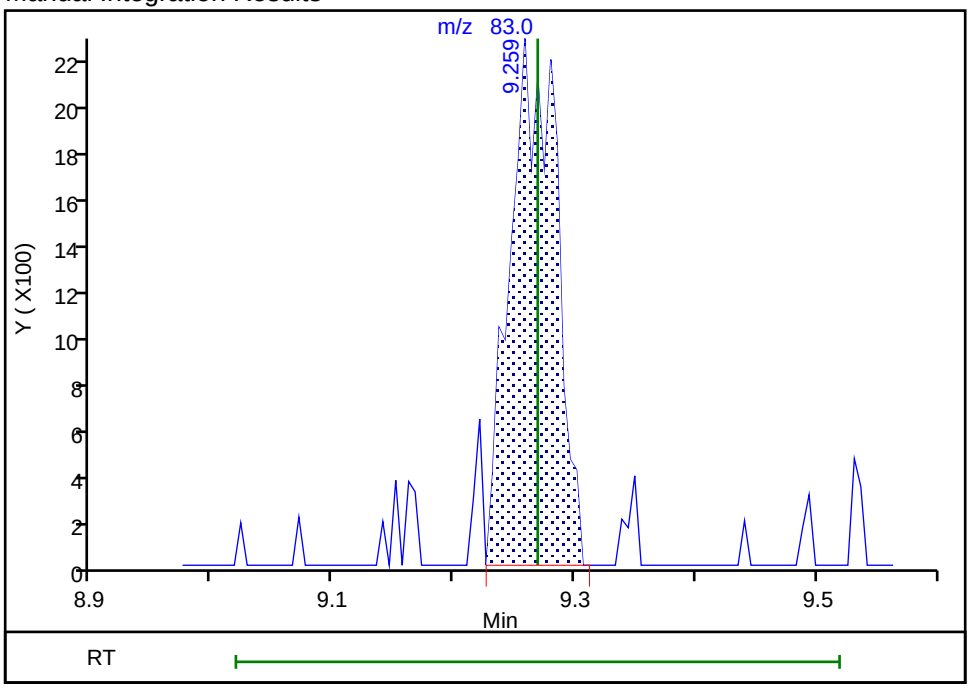
Processing Integration Results

RT: 9.26
Area: 4192
Amount: 0.036286
Amount Units: ppb v/v




Manual Integration Results

RT: 9.26
Area: 5971
Amount: 0.051685
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:42:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

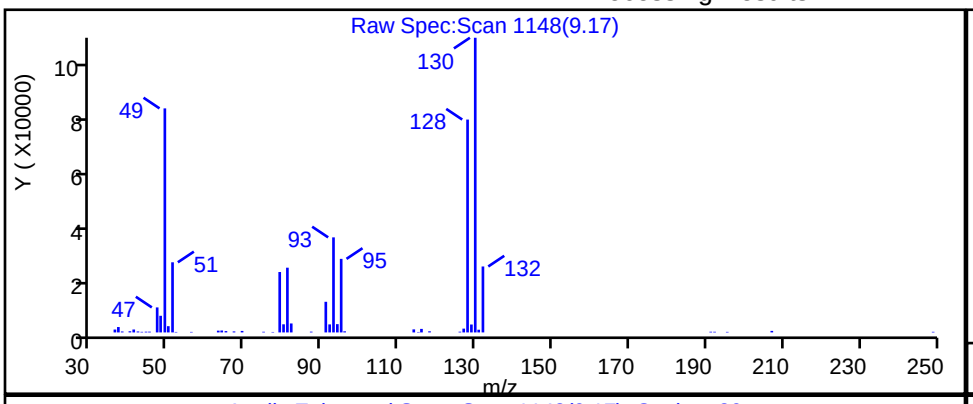
User Disabled Compound Report

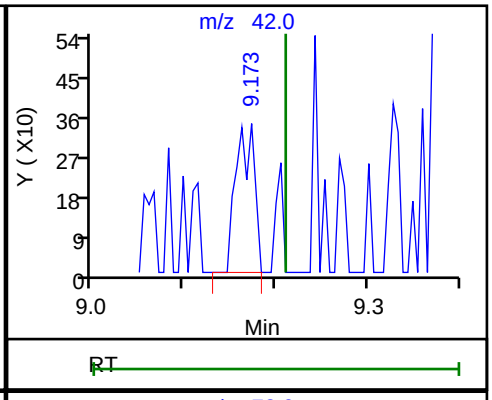
TestAmerica Burlington

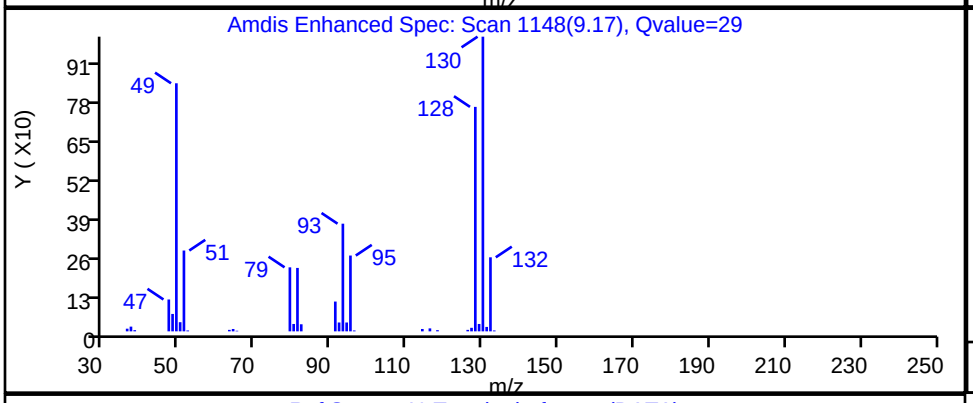
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

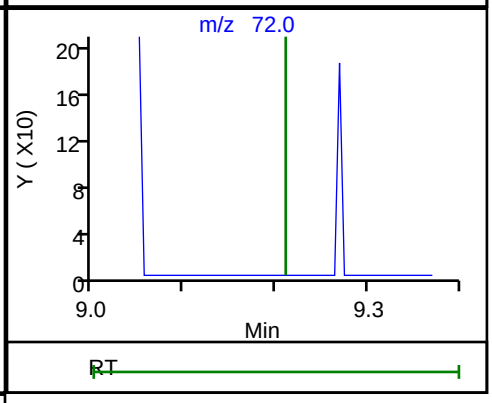
## 41 Tetrahydrofuran, CAS: 109-99-9

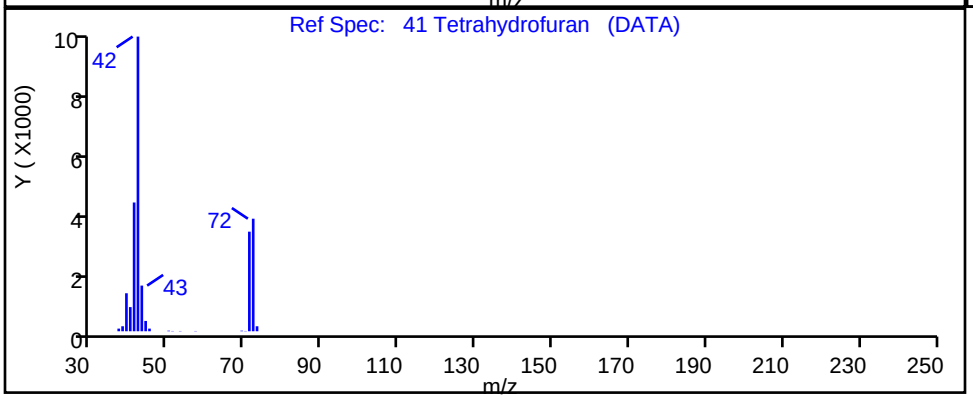
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.17 | 42.00 | 468 | 0.016342 |
| 9.21 | 72.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:34:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

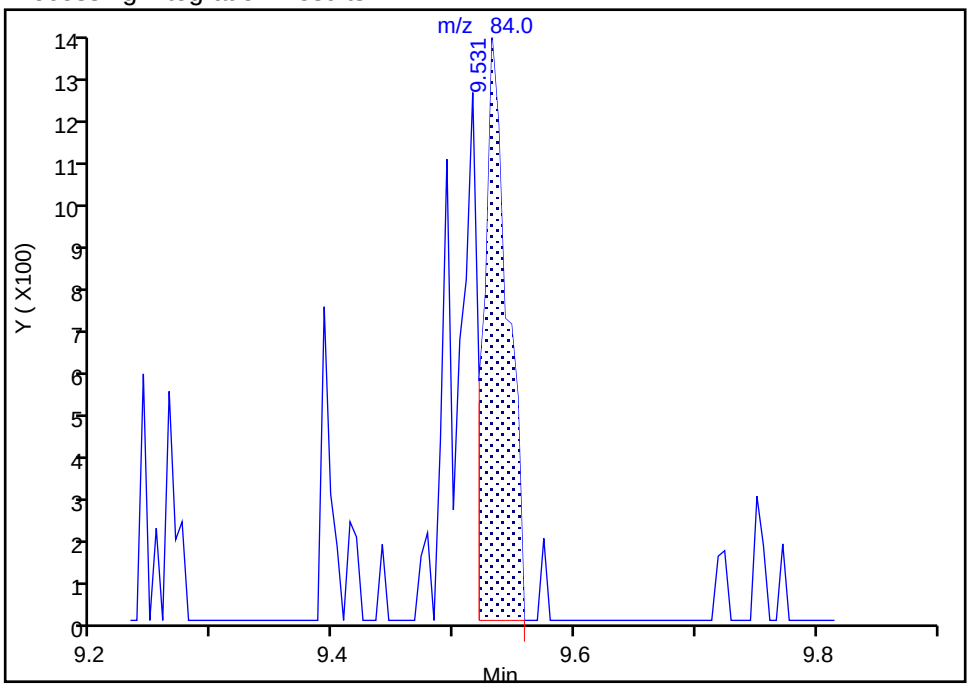
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

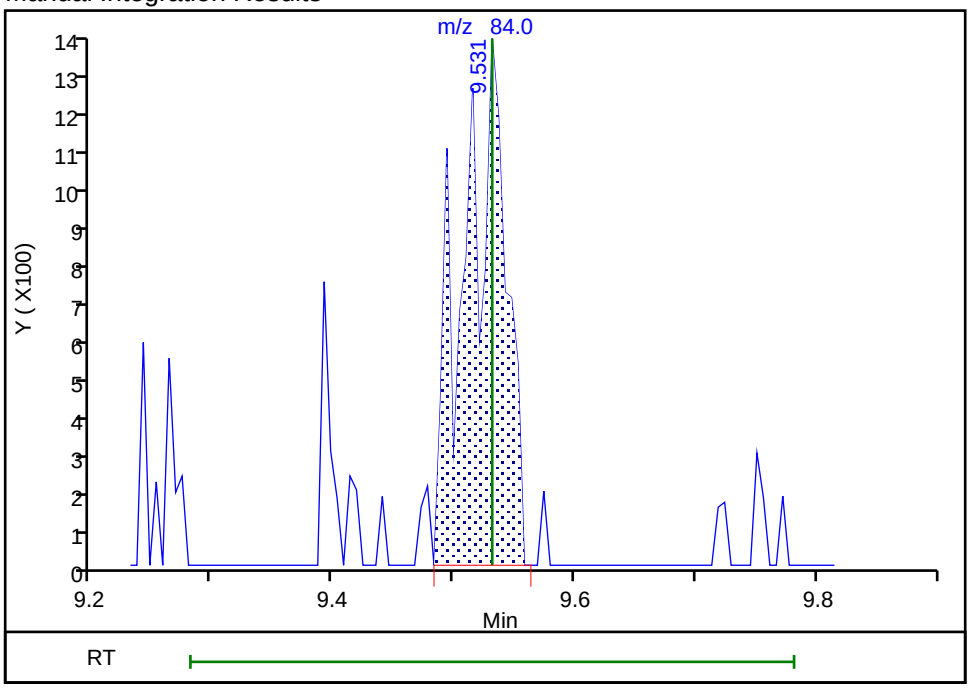
Processing Integration Results

RT: 9.53
Area: 1864
Amount: 0.032352
Amount Units: ppb v/v




Manual Integration Results

RT: 9.53
Area: 3301
Amount: 0.057292
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:34:21
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

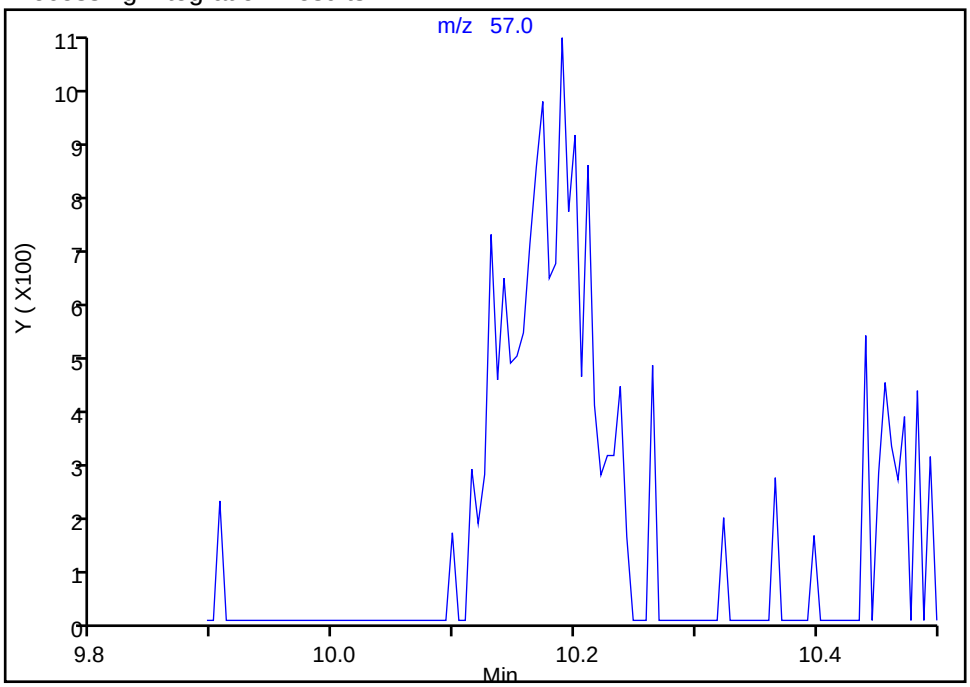
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1

Signal: 1

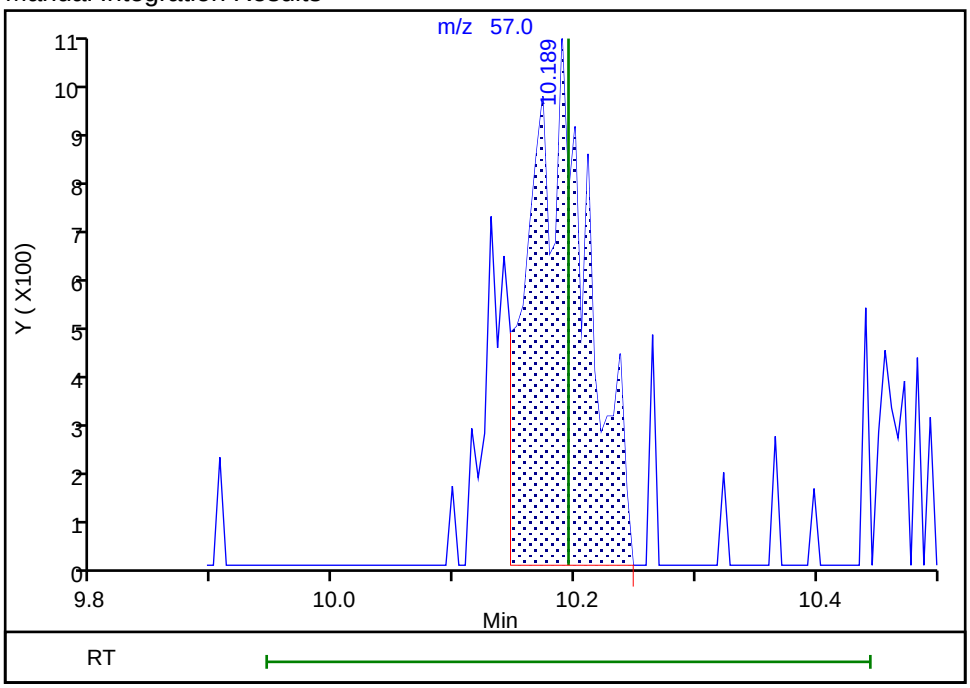
Not Detected
Expected RT: 10.19

Processing Integration Results




Manual Integration Results

RT: 10.19
Area: 3587
Amount: 0.018821
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:34:58
Audit Action: Manually Integrated Audit Reason: Assign Peak

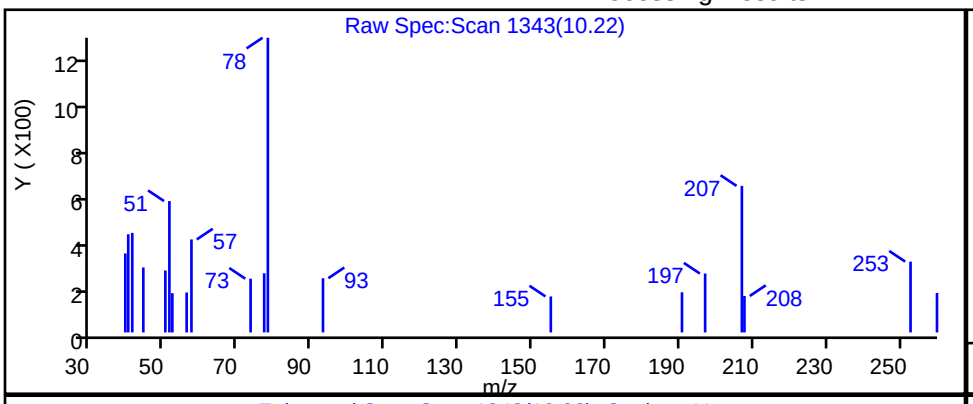
User Disabled Compound Report

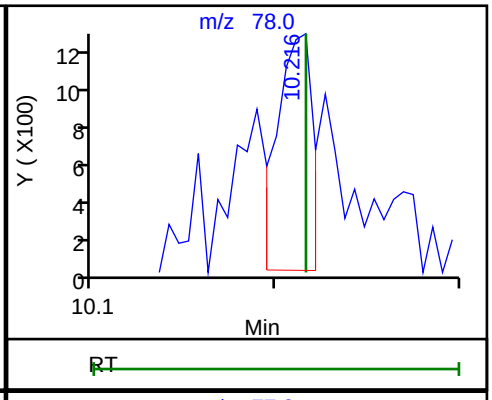
TestAmerica Burlington

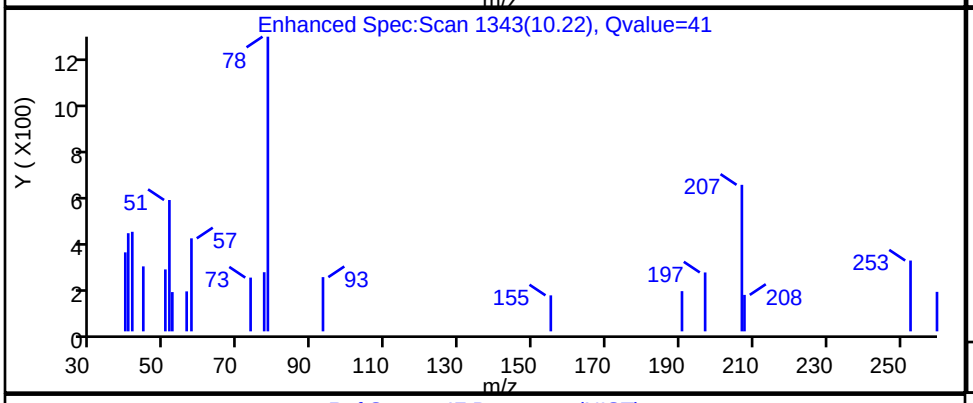
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

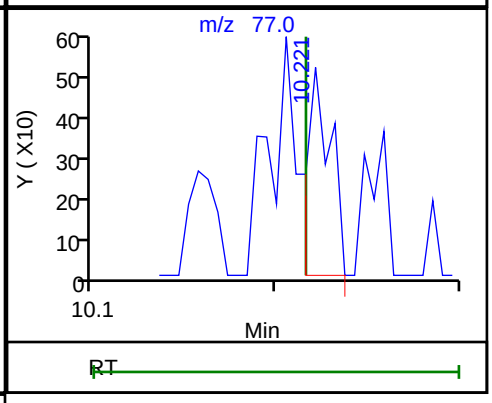
## 47 Benzene, CAS: 71-43-2

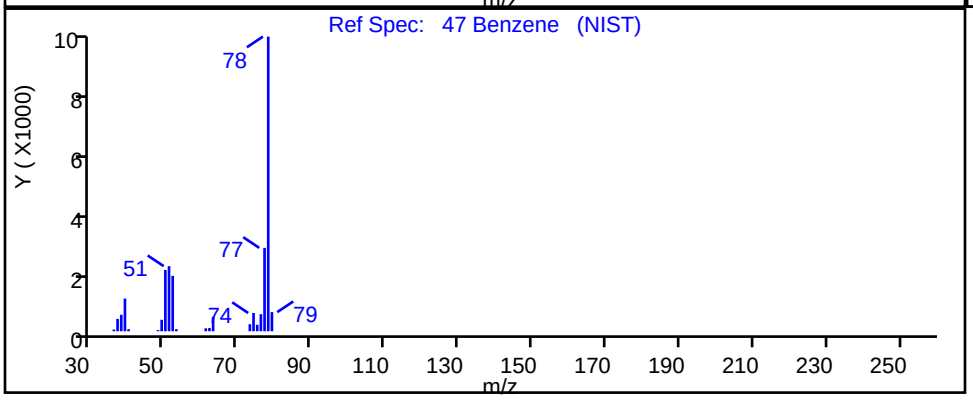
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.22 | 78.00 | 1745 | 0.013055 |
| 10.22 | 77.00 | 459 | |

Reviewer: bunmaa, 07-Dec-2018 09:35:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

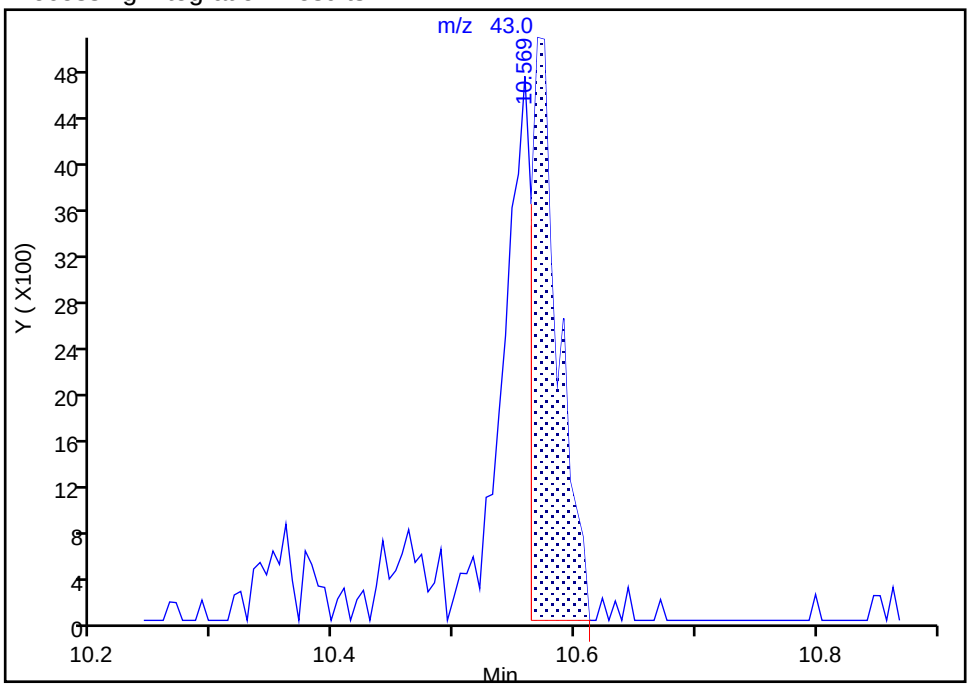
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5

Signal: 1

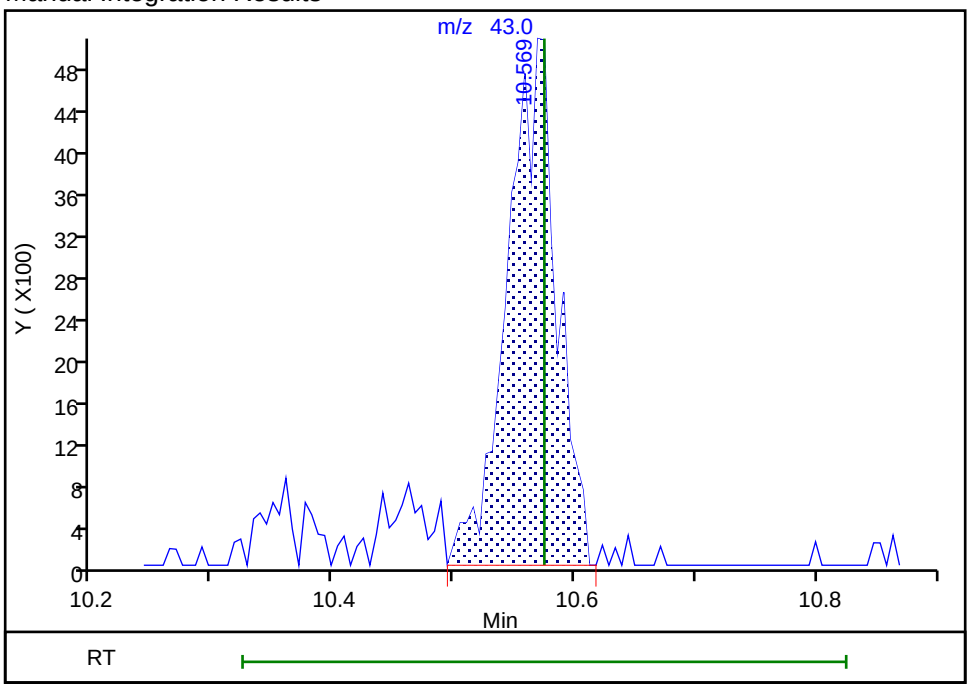
Processing Integration Results

RT: 10.57
Area: 7785
Amount: 0.113196
Amount Units: ppb v/v




Manual Integration Results

RT: 10.57
Area: 14307
Amount: 0.208027
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:42:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

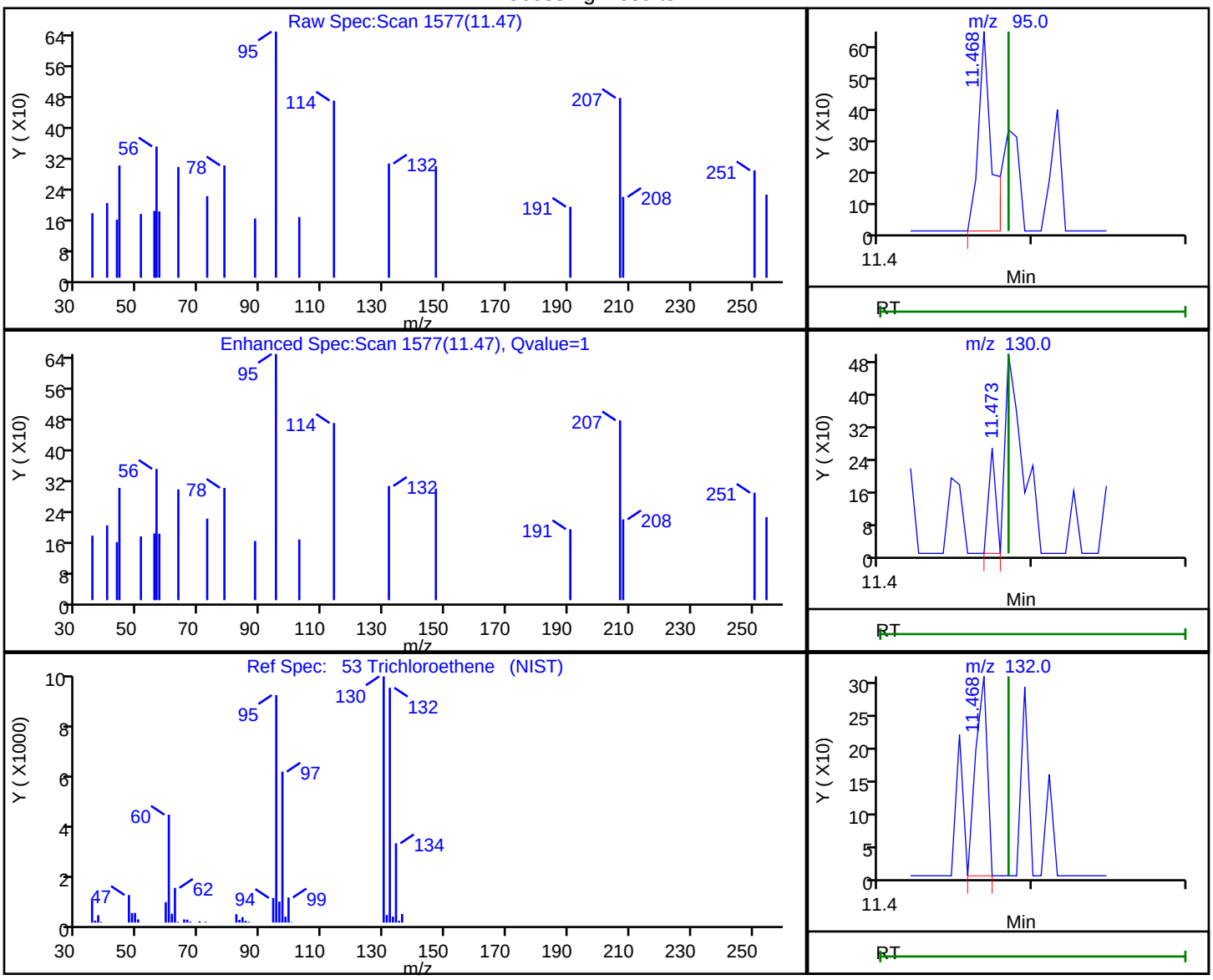
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 11.47 | 95.00 | 378 | 0.004321 |
| 11.47 | 130.00 | 84 | |
| 11.47 | 132.00 | 158 | |

Reviewer: bunmaa, 07-Dec-2018 09:35:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

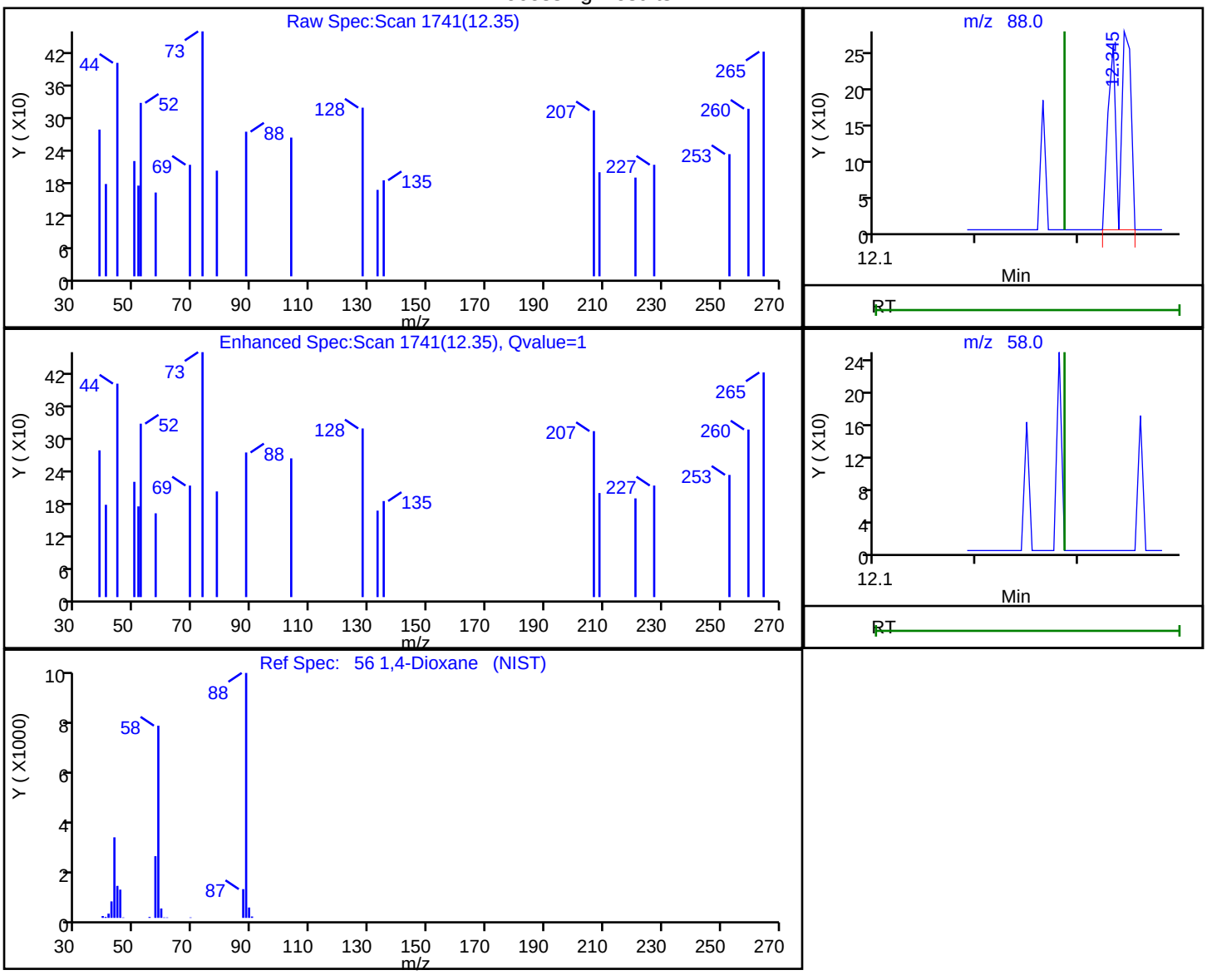
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 56 1,4-Dioxane, CAS: 123-91-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.35 | 88.00 | 299 | 0.012169 |
| 12.29 | 58.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:35:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

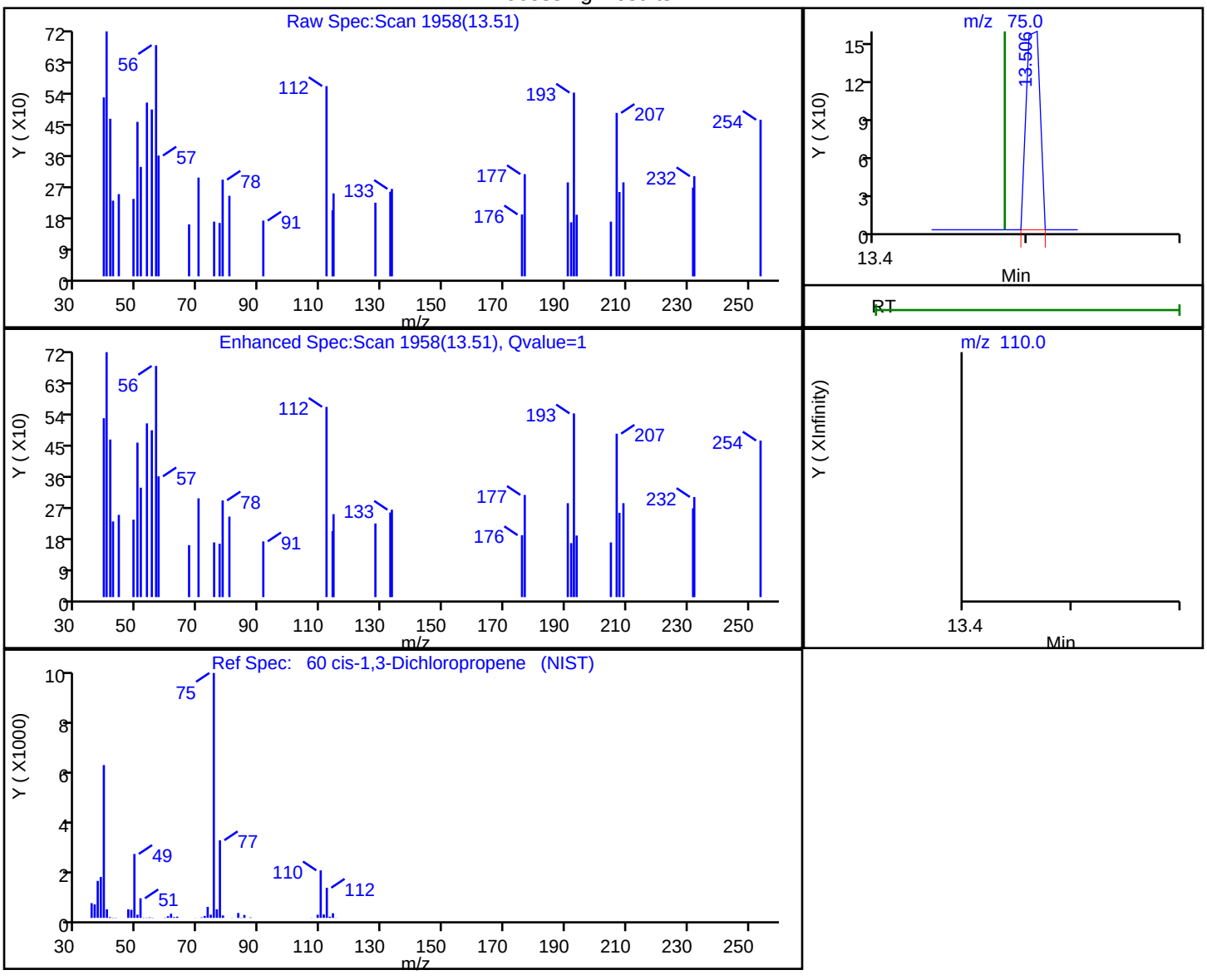
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.51 | 75.00 | 101 | 0.001201 |
| 13.48 | 110.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:35:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

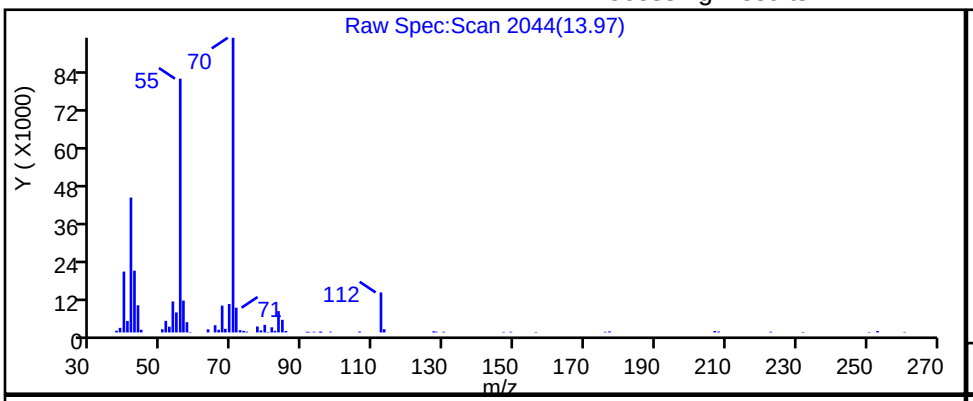
User Disabled Compound Report

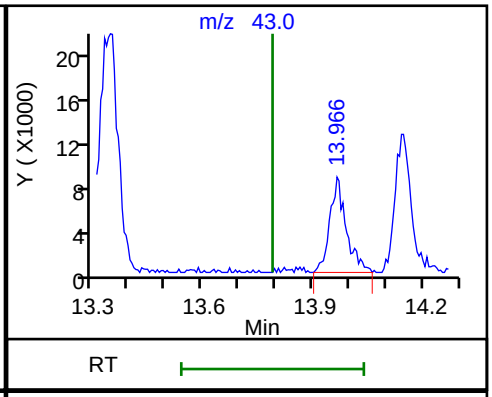
TestAmerica Burlington

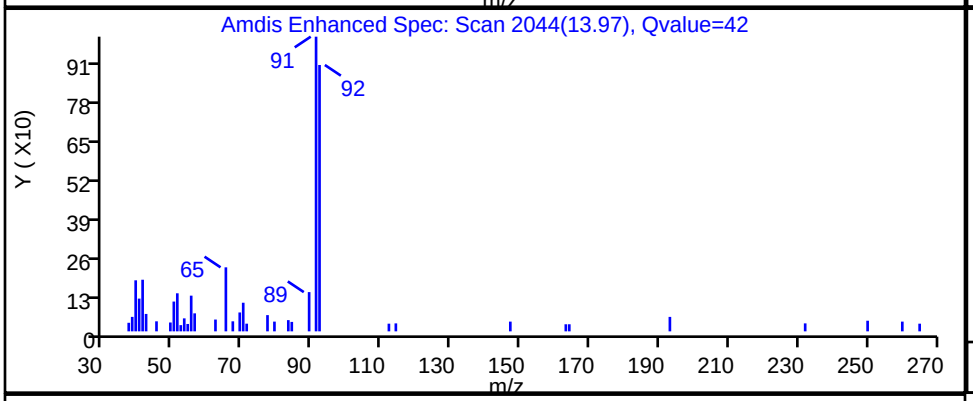
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

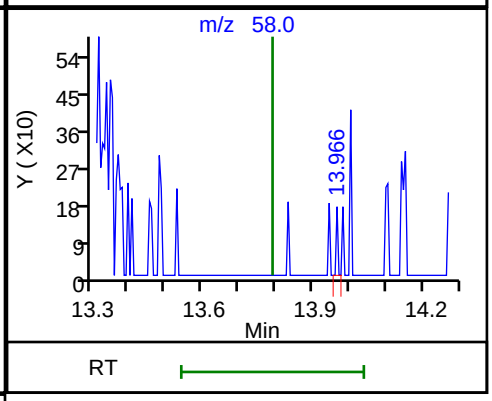
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

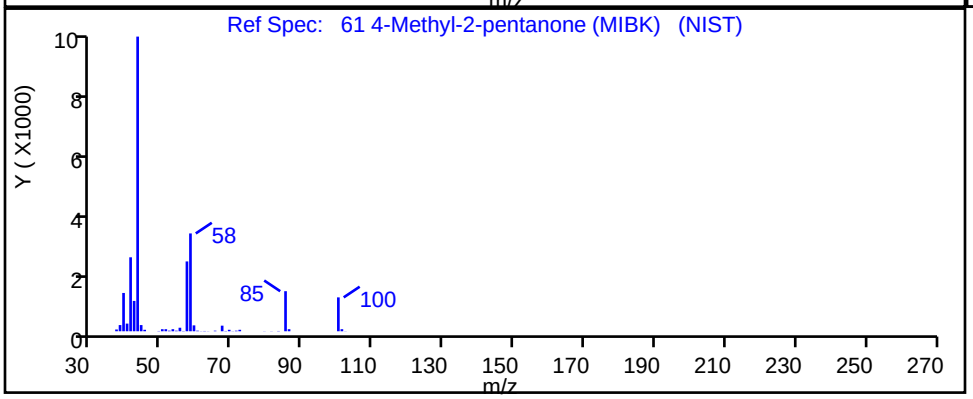
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.97 | 43.00 | 27095 | 0.311721 |
| 13.97 | 58.00 | 54 | |

Reviewer: guazzonig, 06-Dec-2018 13:42:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

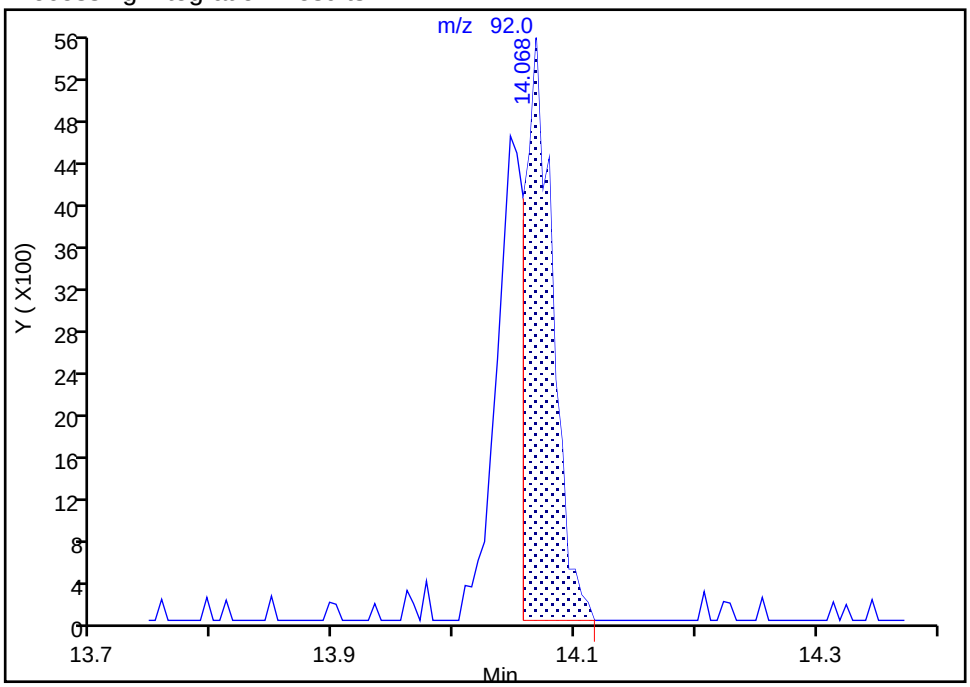
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3

Signal: 1

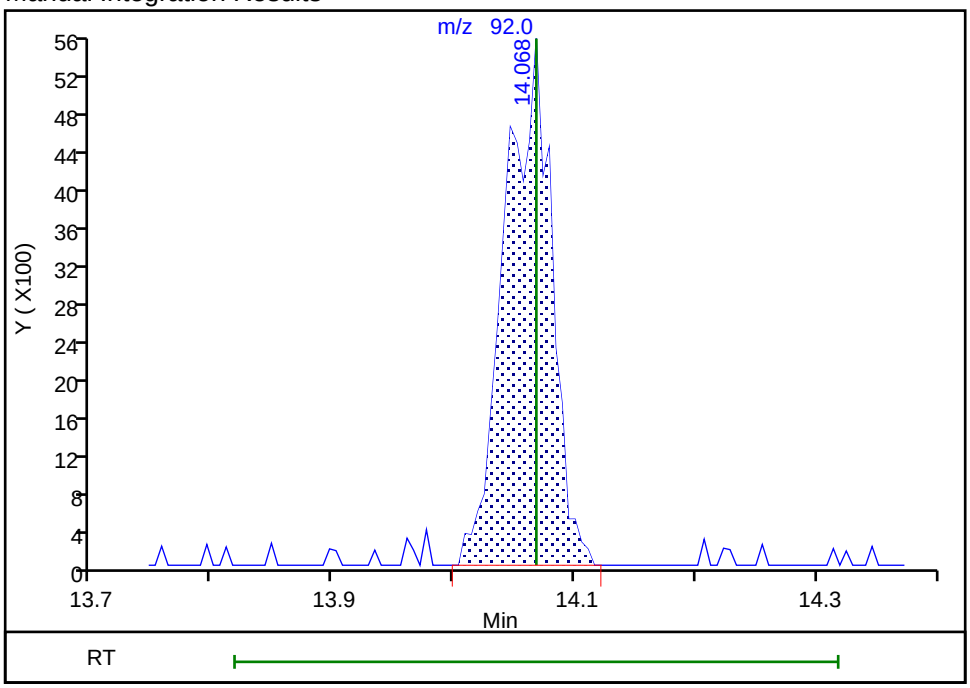
Processing Integration Results

RT: 14.07
Area: 8919
Amount: 0.083992
Amount Units: ppb v/v




Manual Integration Results

RT: 14.07
Area: 14908
Amount: 0.140392
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:42:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

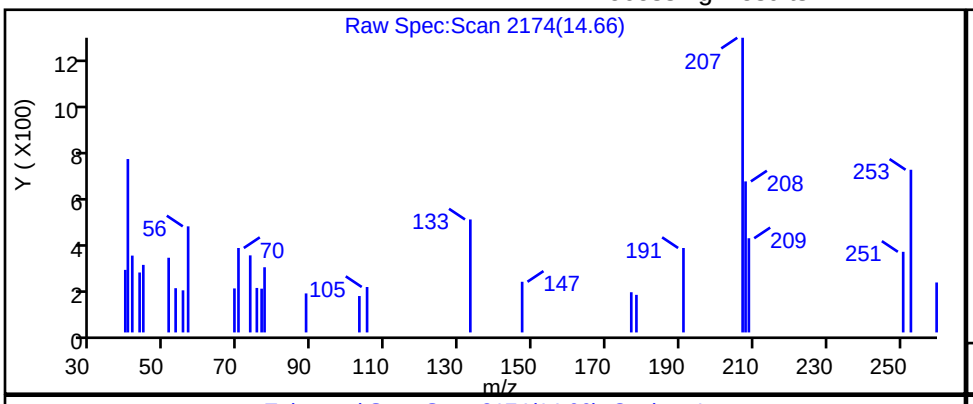
User Disabled Compound Report

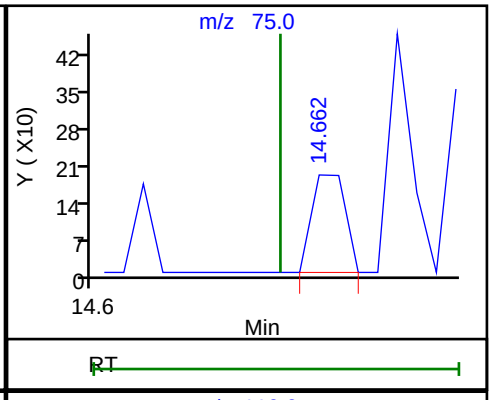
TestAmerica Burlington

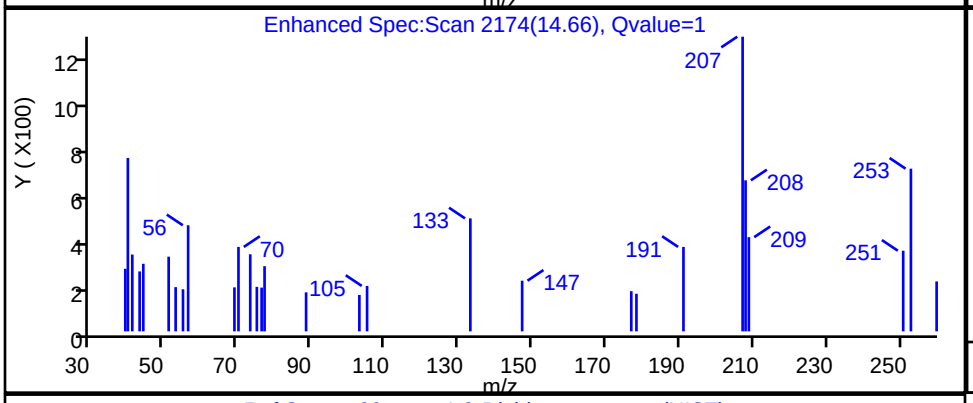
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

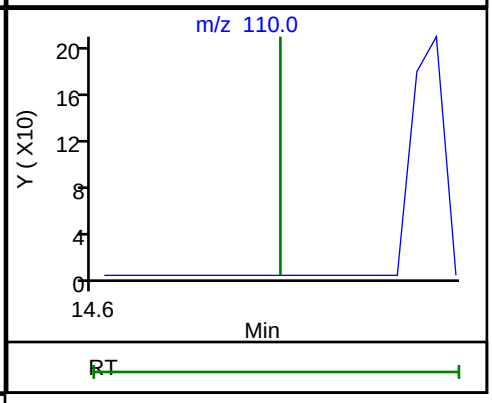
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

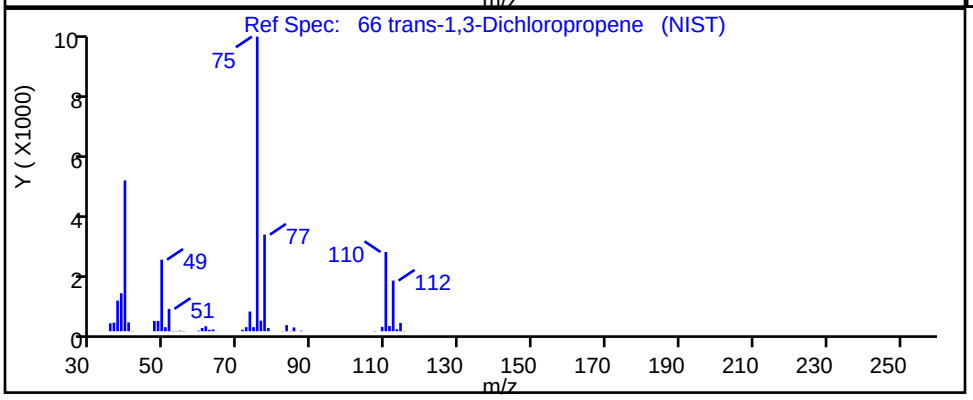
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.66 | 75.00 | 120 | 0.001451 |
| 14.65 | 110.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:35:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

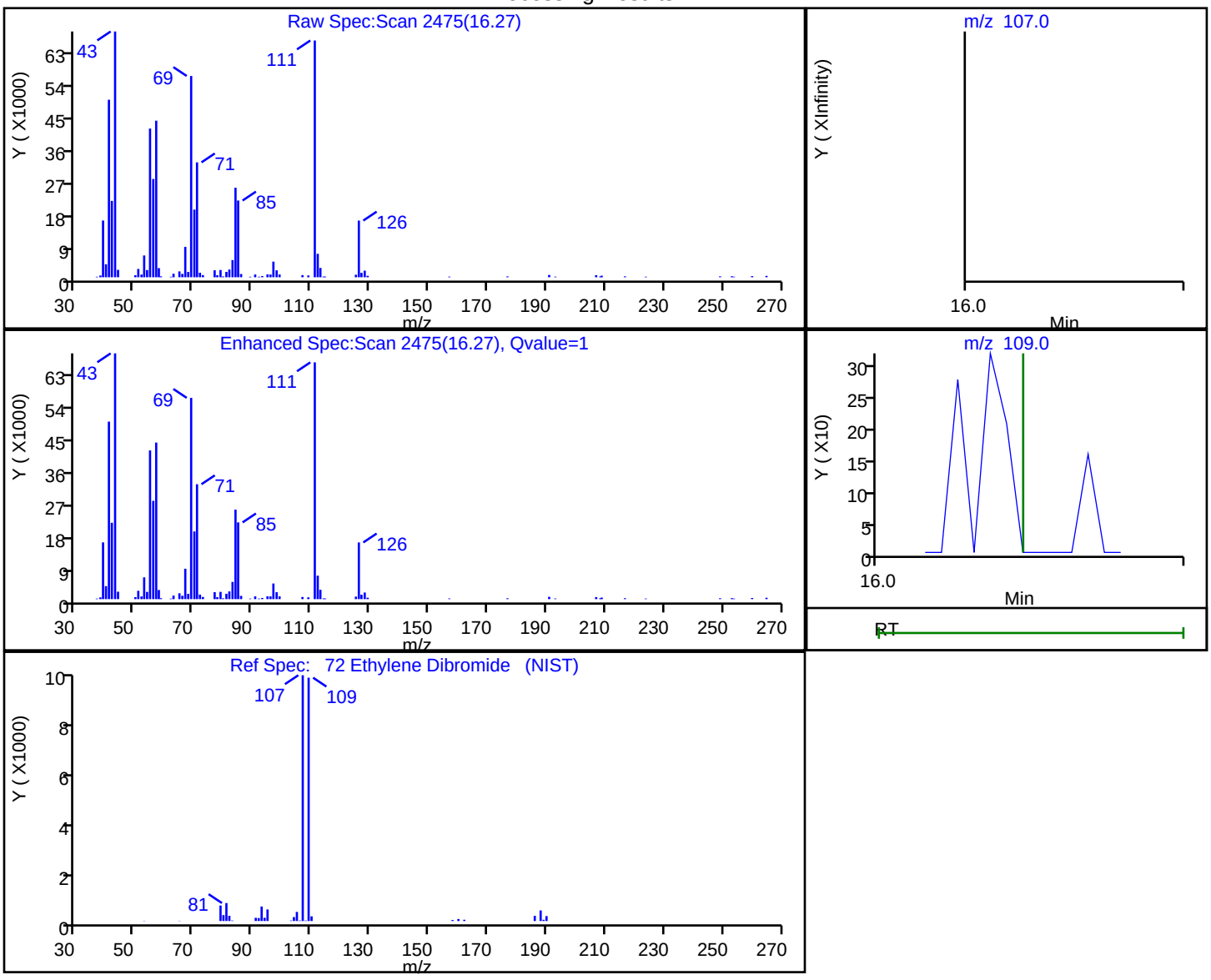
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 72 Ethylene Dibromide, CAS: 106-93-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 16.27 | 107.00 | 189 | 0.001629 |
| 16.05 | 109.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:35:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

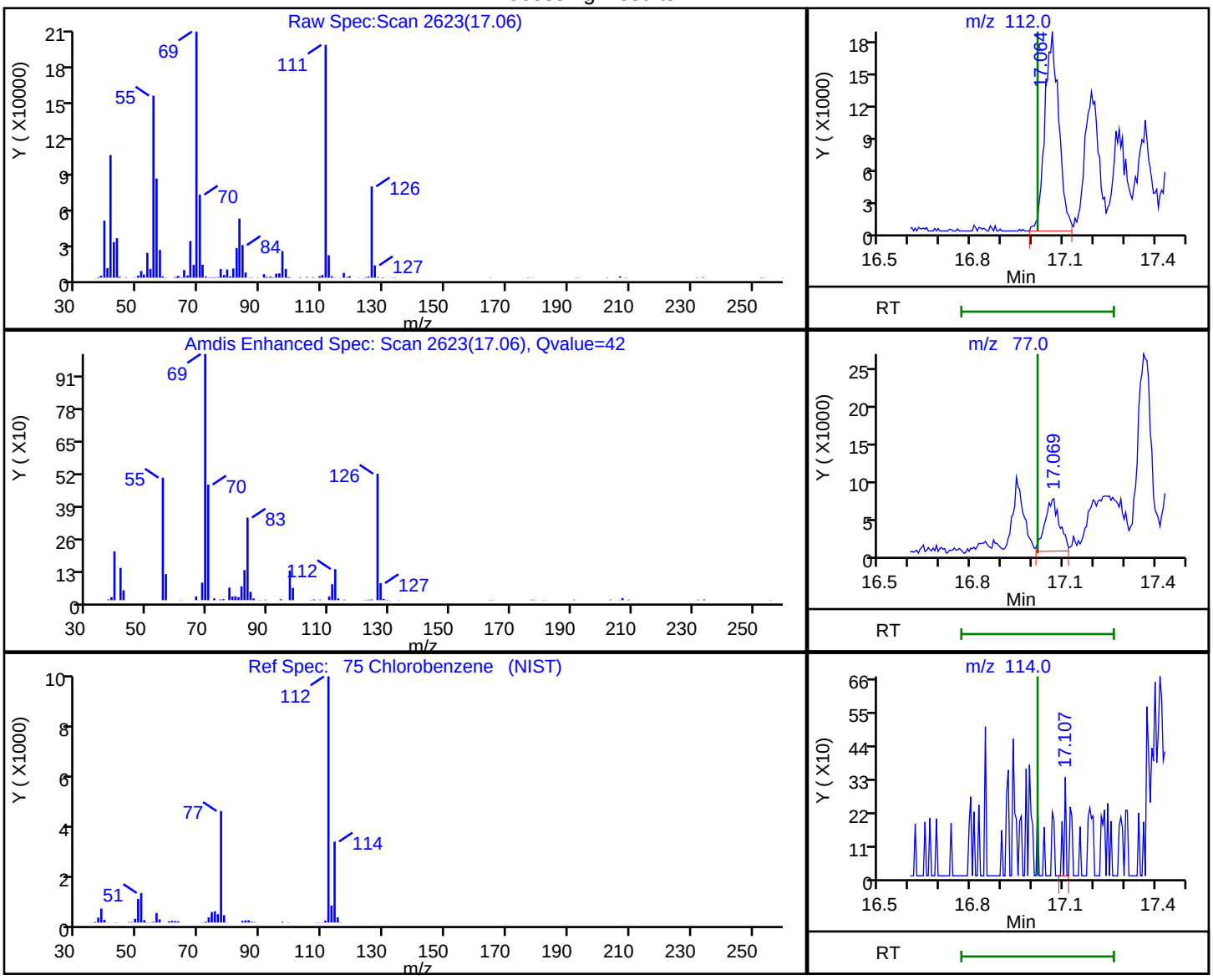
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.06 | 112.00 | 59946 | 0.367004 |
| 17.07 | 77.00 | 23450 | |
| 17.11 | 114.00 | 164 | |

Reviewer: bunmaa, 07-Dec-2018 09:36:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

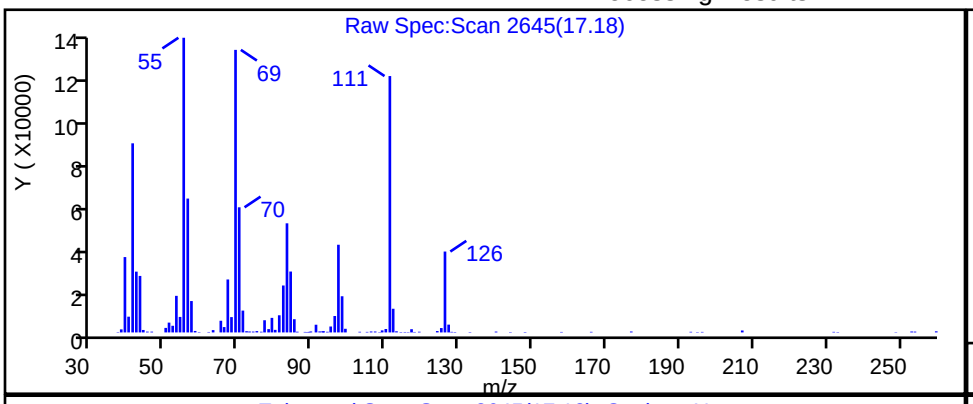
User Disabled Compound Report

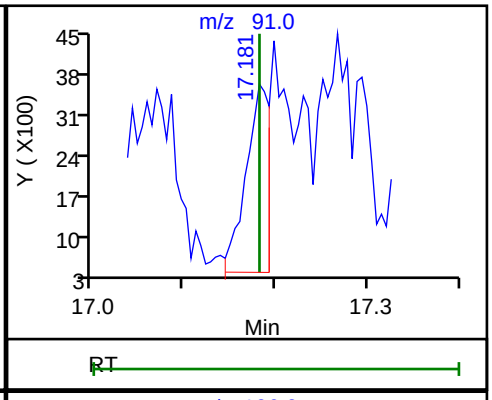
TestAmerica Burlington

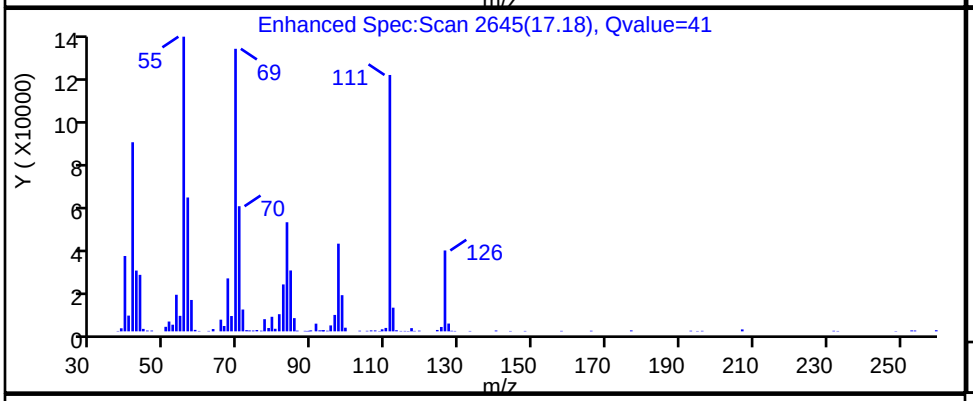
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

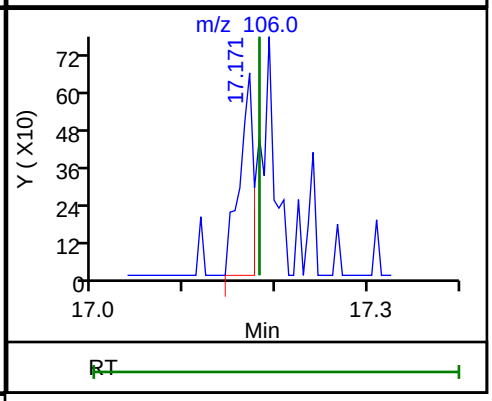
## 76 Ethylbenzene, CAS: 100-41-4

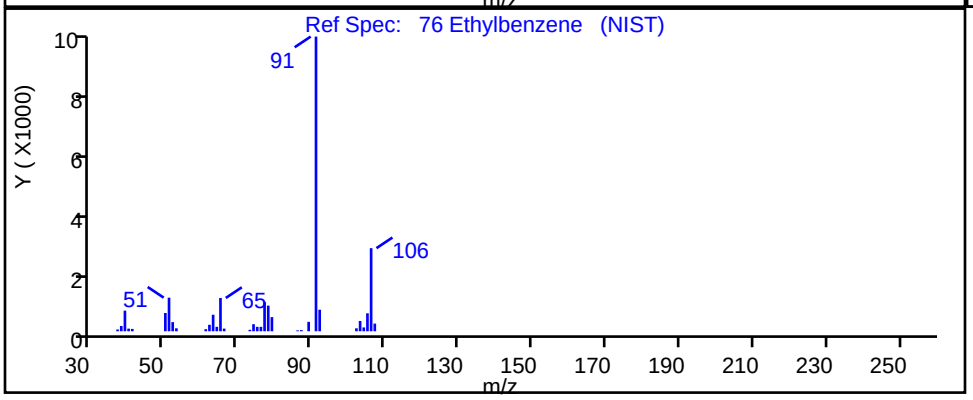
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.18 | 91.00 | 5790 | 0.024214 |
| 17.17 | 106.00 | 689 | |

Reviewer: bunmaa, 07-Dec-2018 09:36:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

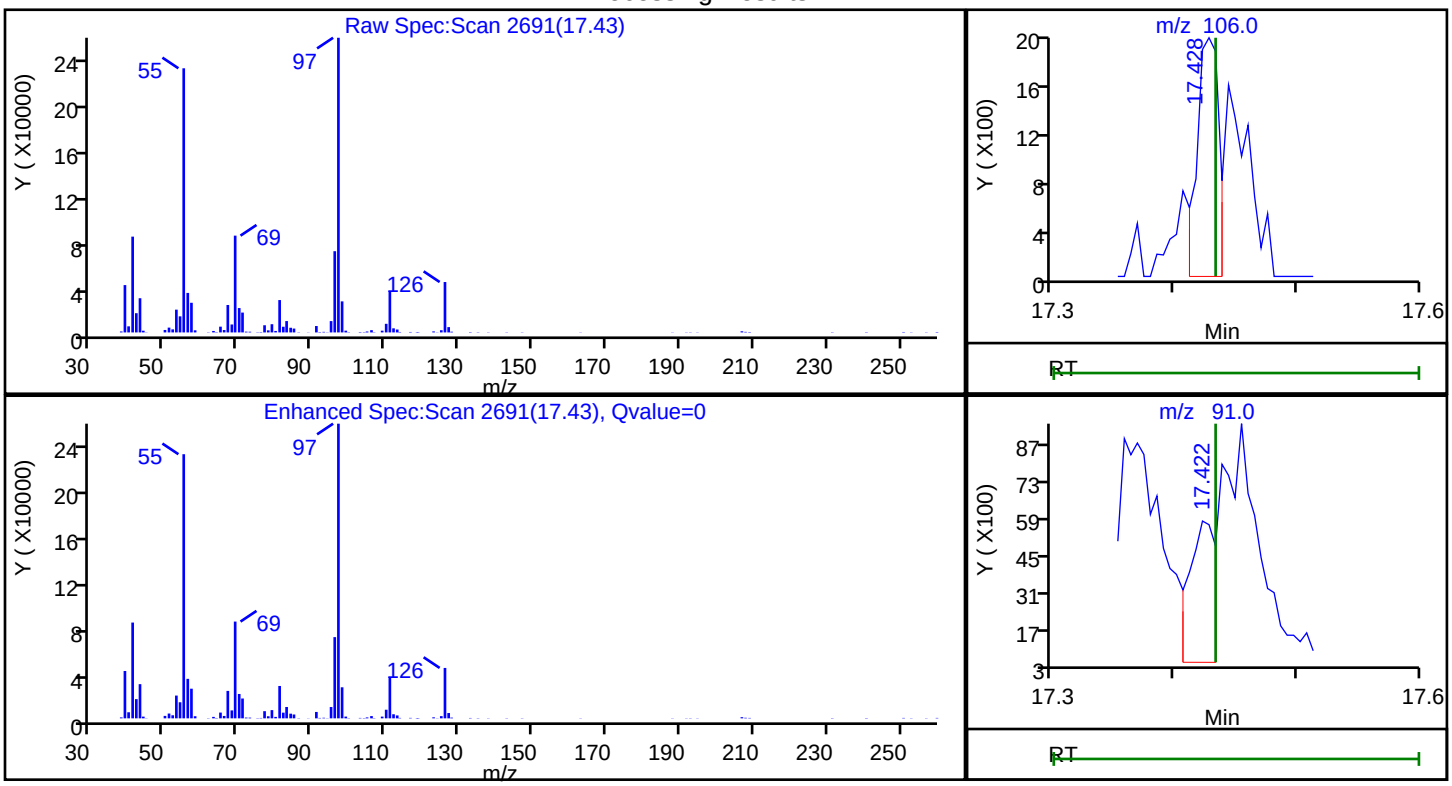
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.43 | 106.00 | 2519 | 0.025988 |
| 17.42 | 91.00 | 8237 | |

Reviewer: bunmaa, 07-Dec-2018 09:36:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

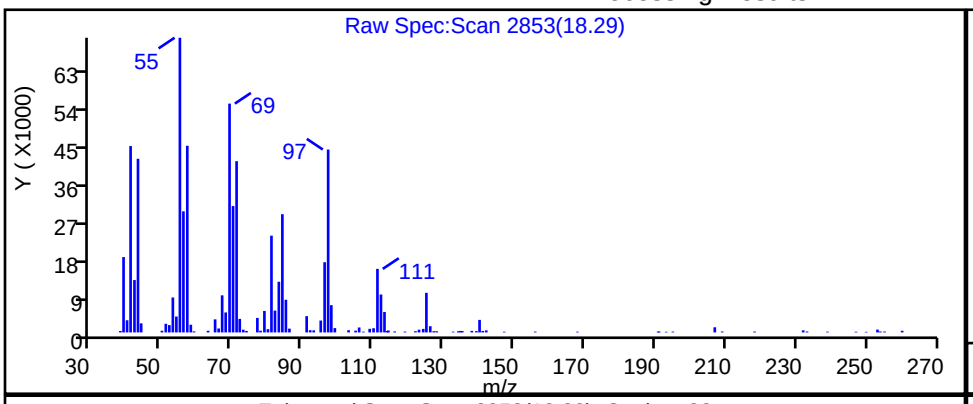
User Disabled Compound Report

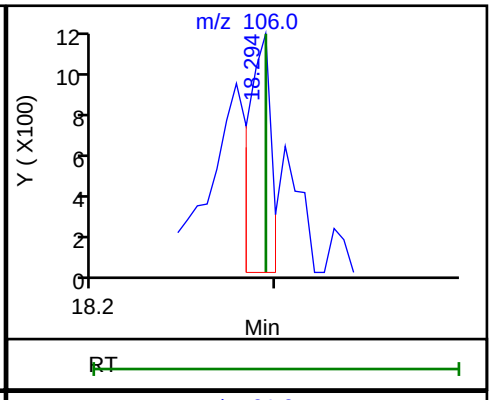
TestAmerica Burlington

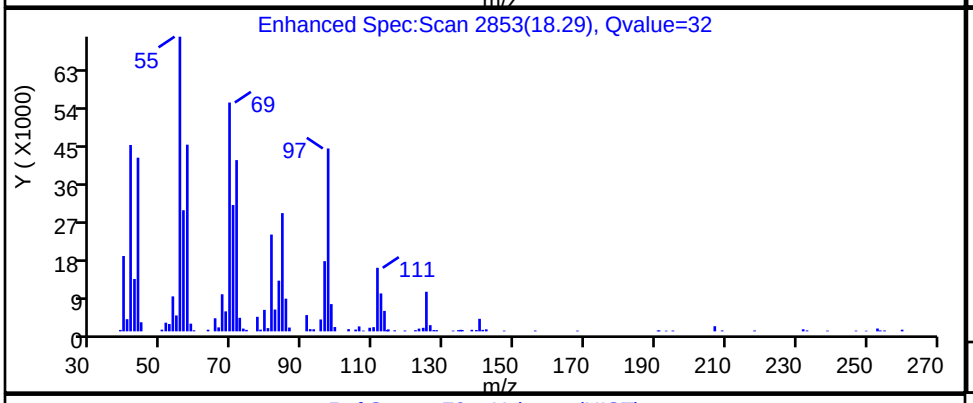
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

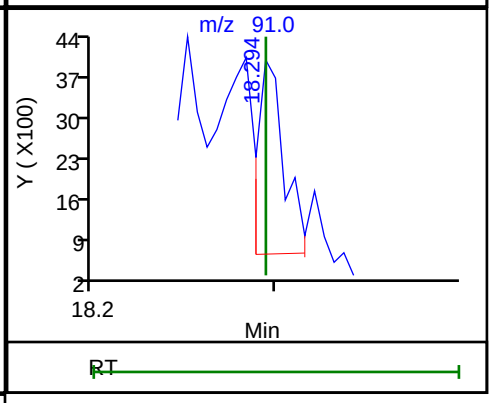
## 79 o-Xylene, CAS: 95-47-6

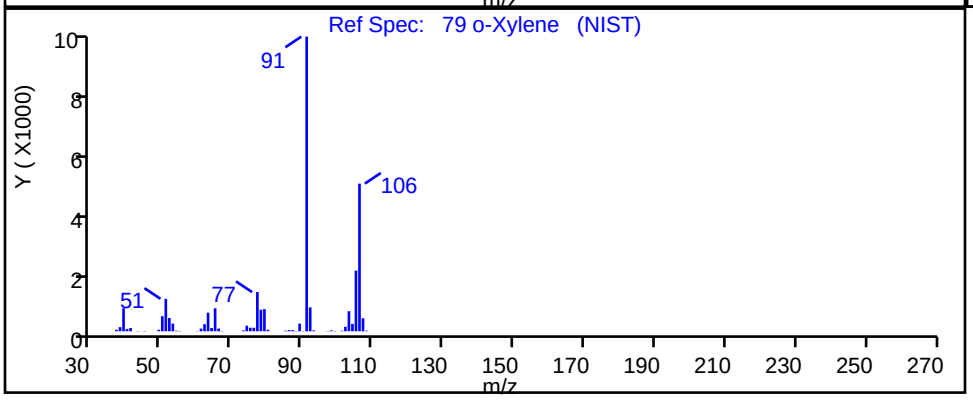
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.29 | 106.00 | 1035 | 0.011235 |
| 18.29 | 91.00 | 3362 | |

Reviewer: bunmaa, 07-Dec-2018 09:36:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

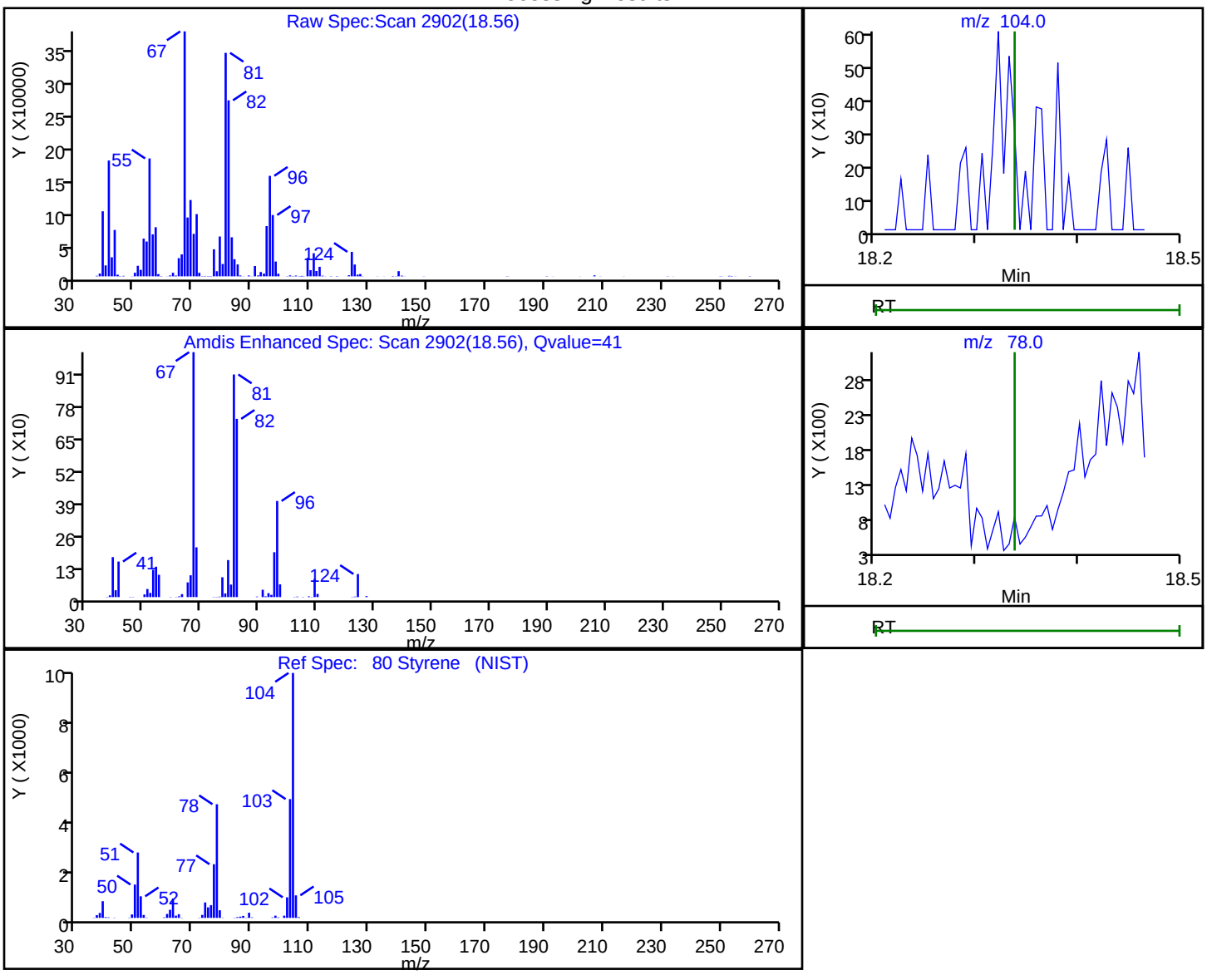
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.56 | 104.00 | 748 | 0.005304 |
| 18.55 | 78.00 | 19809 | |

Reviewer: guazzonig, 06-Dec-2018 13:43:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

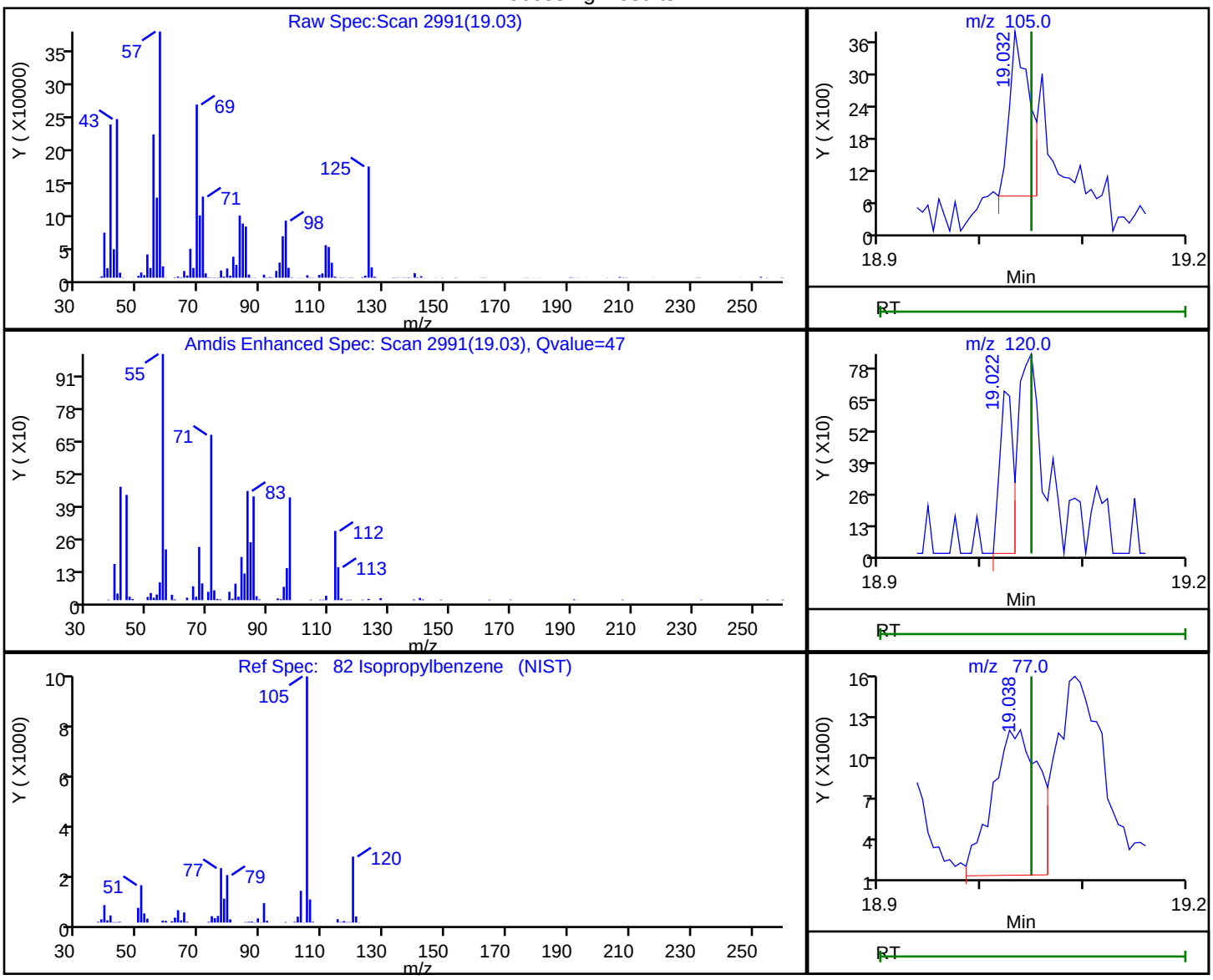
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.03 | 105.00 | 4276 | 0.015874 |
| 19.02 | 120.00 | 631 | |
| 19.04 | 77.00 | 31850 | |

Reviewer: bunmaa, 07-Dec-2018 09:37:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

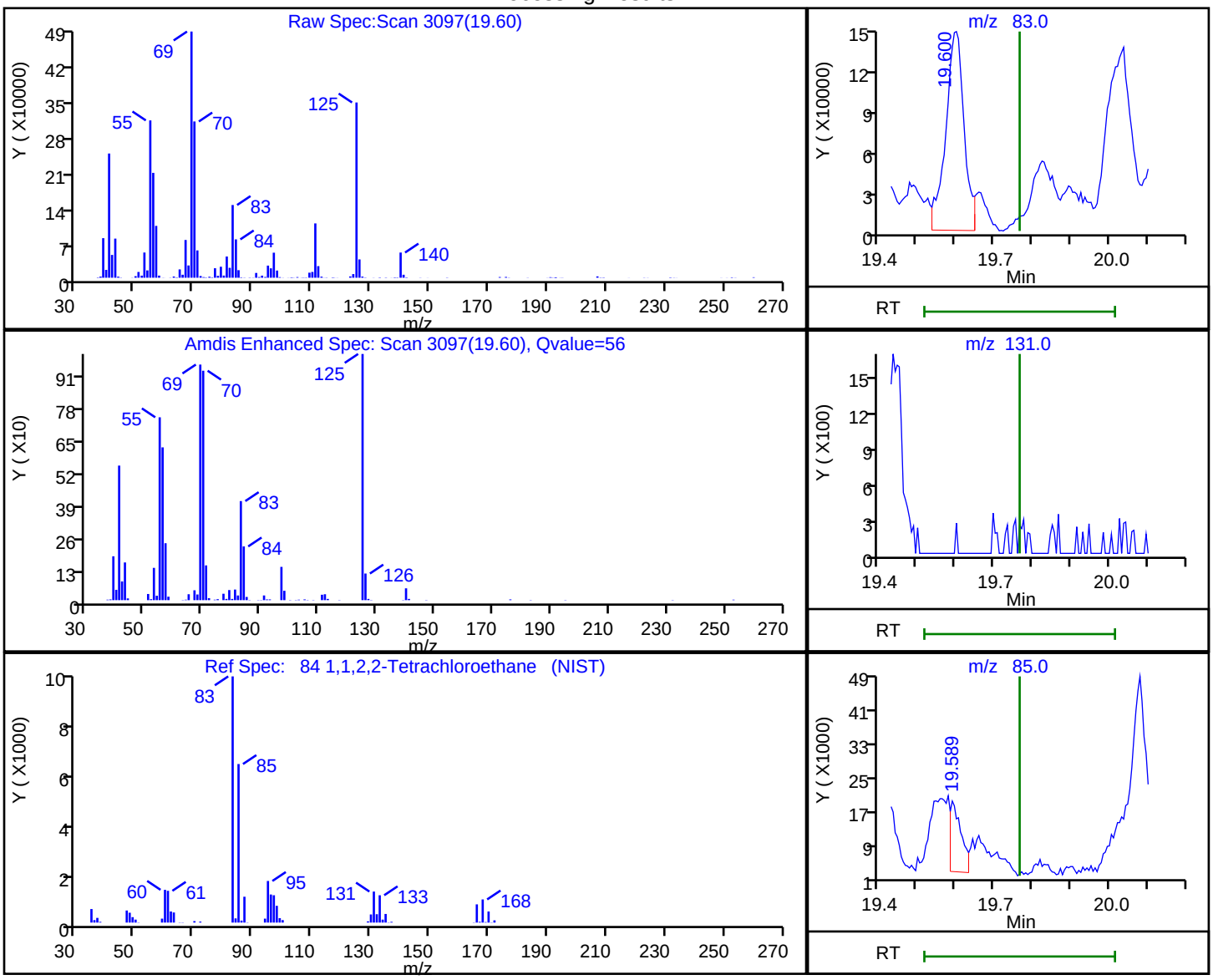
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.60 | 83.00 | 460428 | 3.132758 |
| 19.77 | 131.00 | 0 | |
| 19.59 | 85.00 | 33840 | |

Reviewer: guazzonig, 06-Dec-2018 13:43:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

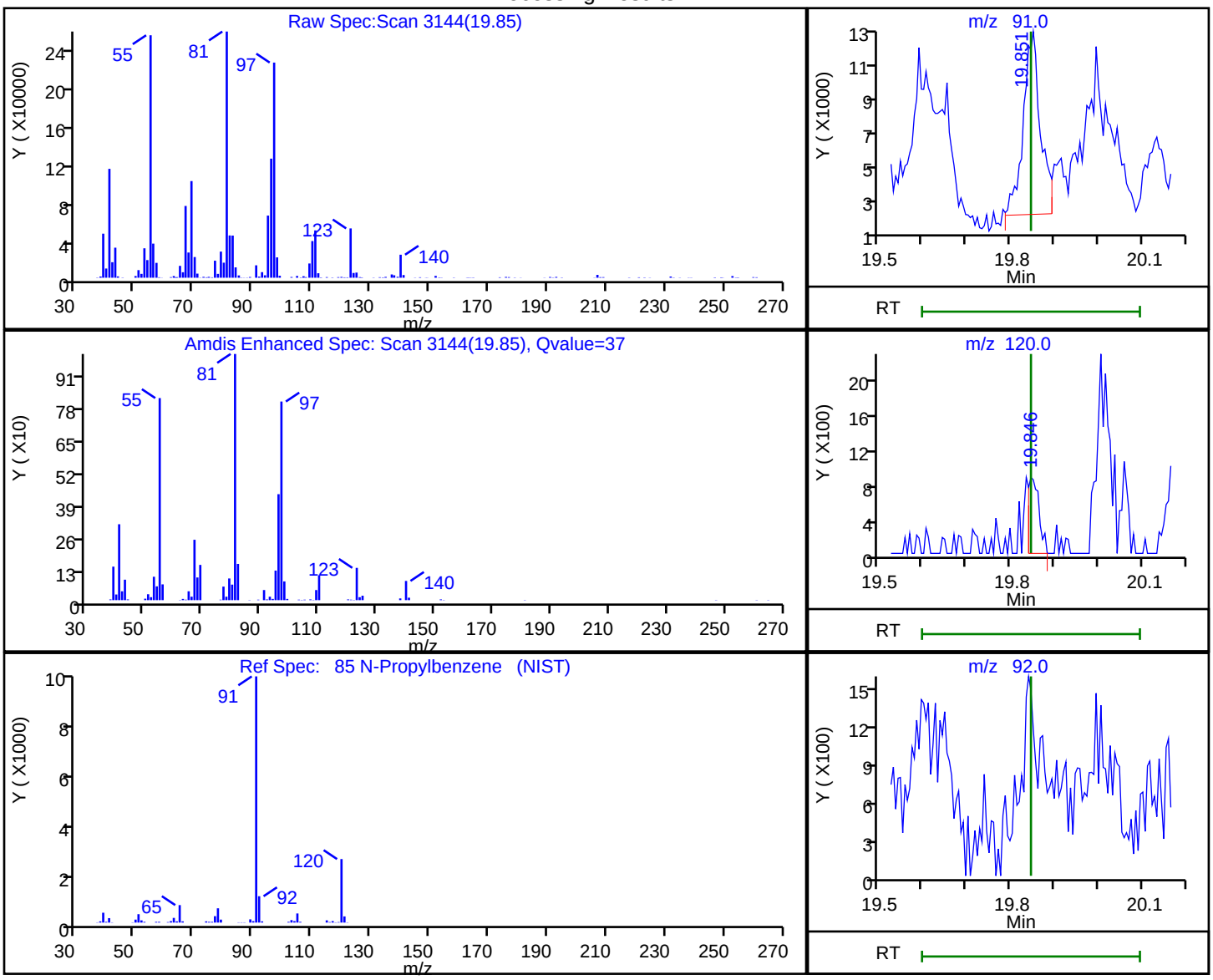
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.85 | 91.00 | 29598 | 0.092275 |
| 19.85 | 120.00 | 1439 | |
| 19.85 | 92.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:37:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

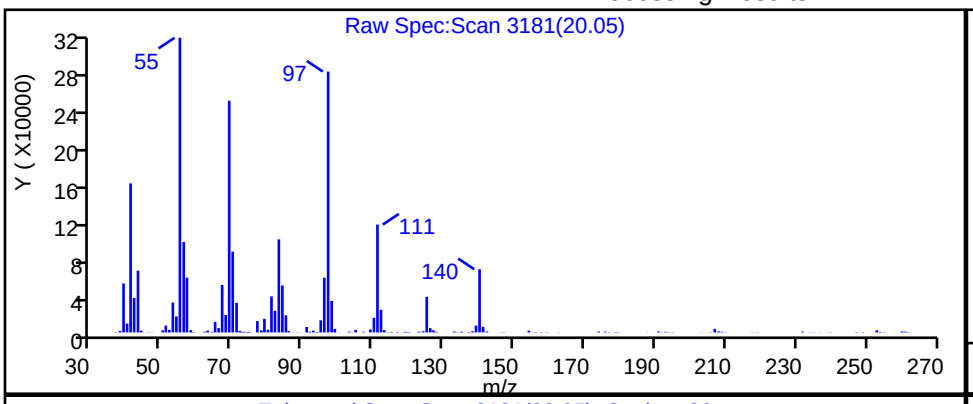
User Disabled Compound Report

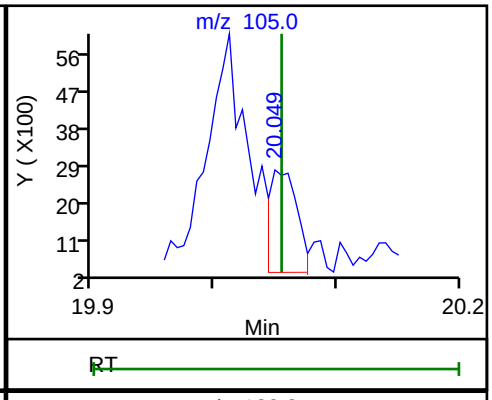
TestAmerica Burlington

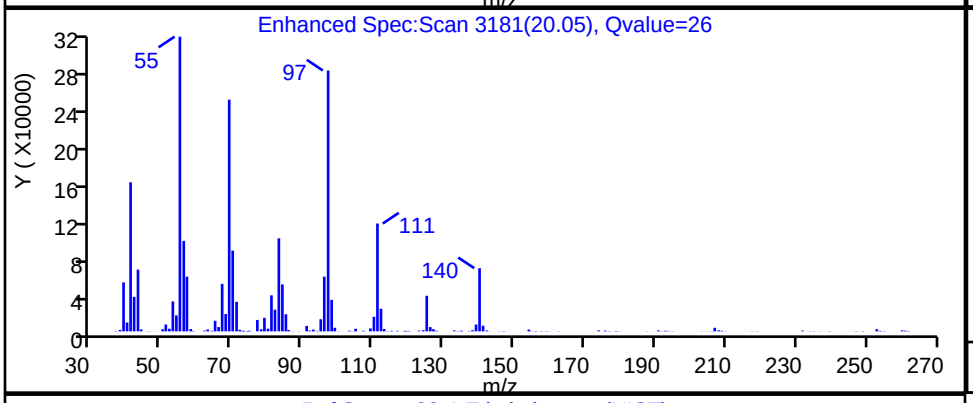
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

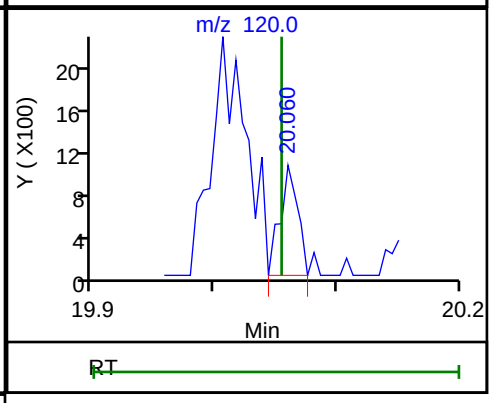
## 88 4-Ethyltoluene, CAS: 622-96-8

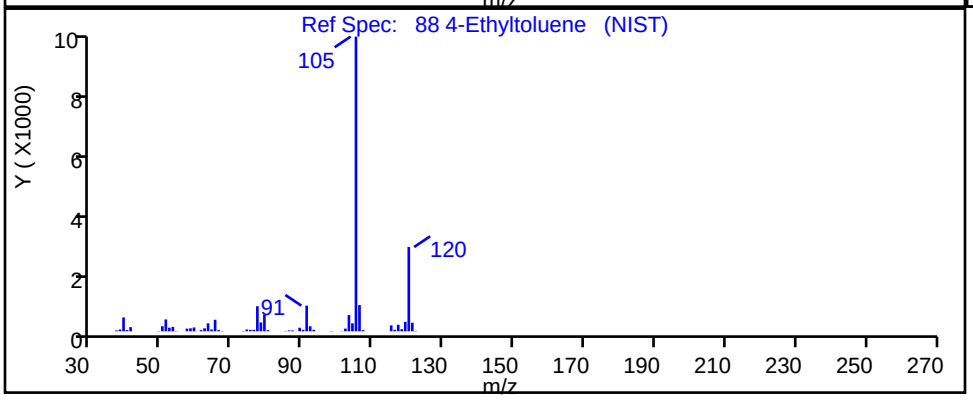
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.05 | 105.00 | 4068 | 0.014898 |
| 20.06 | 120.00 | 1031 | |

Reviewer: bunmaa, 07-Dec-2018 09:37:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

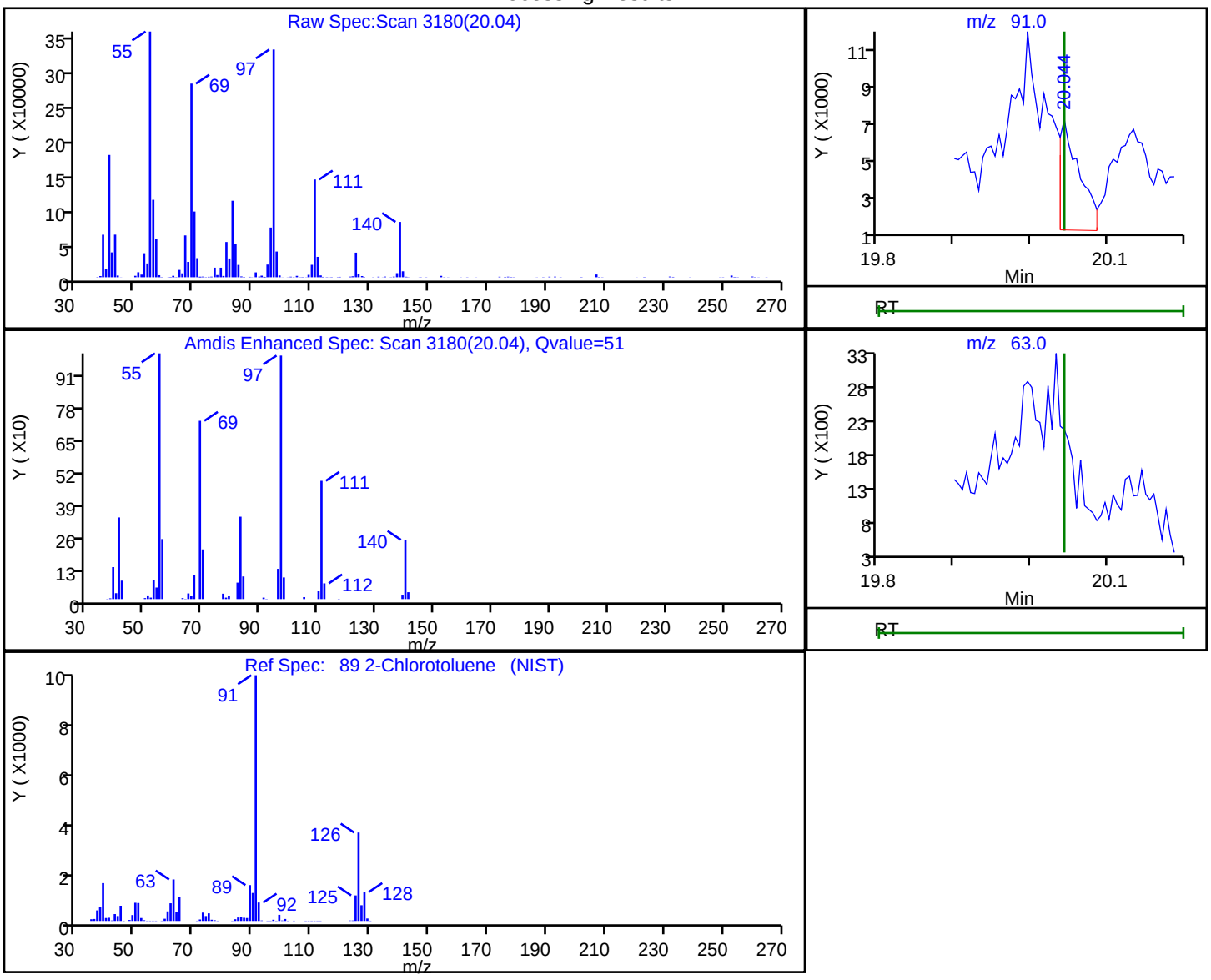
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.04 | 91.00 | 10899 | 0.044992 |
| 20.04 | 63.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:43:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

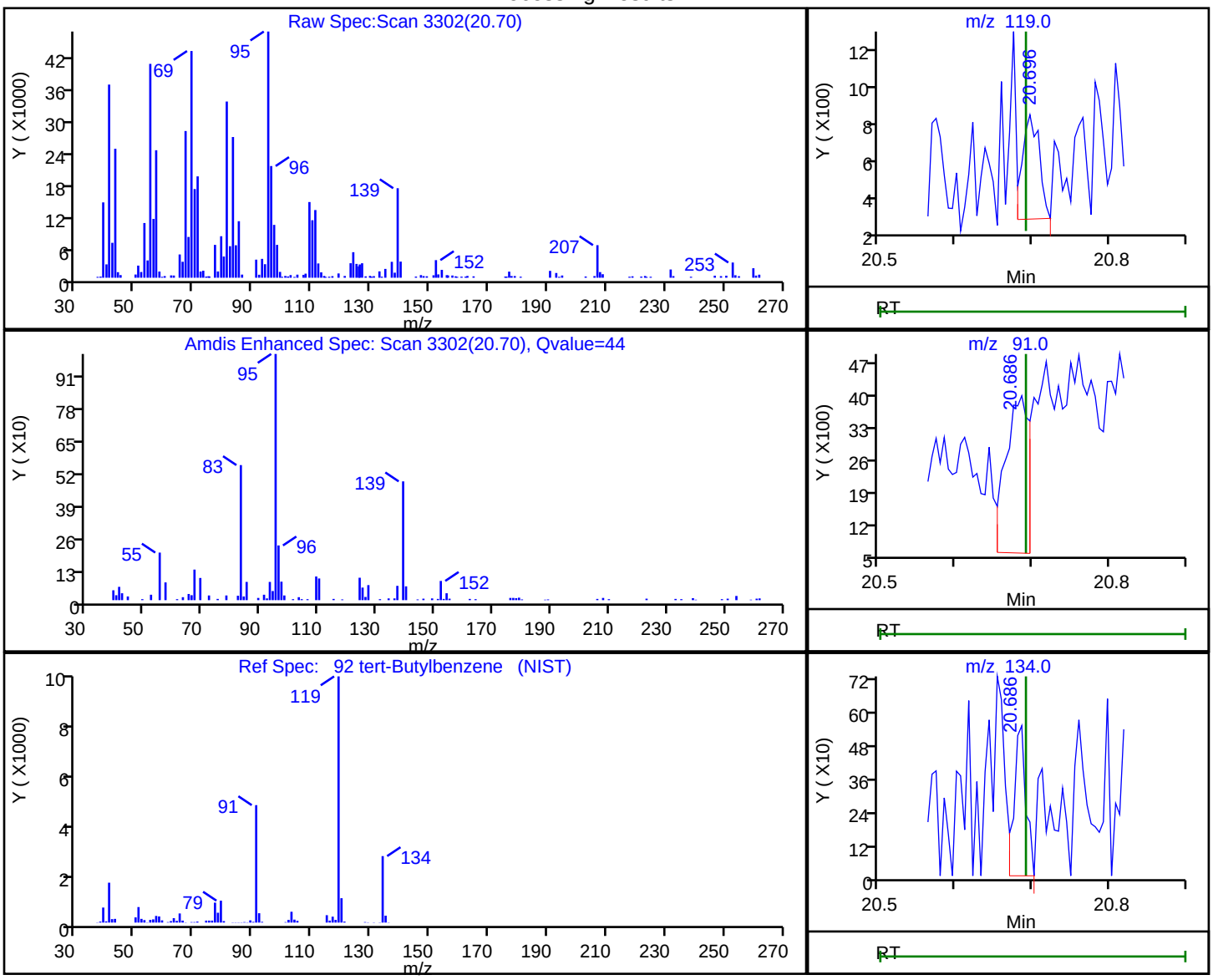
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.70 | 119.00 | 817 | 0.003739 |
| 20.69 | 91.00 | 7220 | |
| 20.69 | 134.00 | 589 | |

Reviewer: bunmaa, 07-Dec-2018 09:37:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

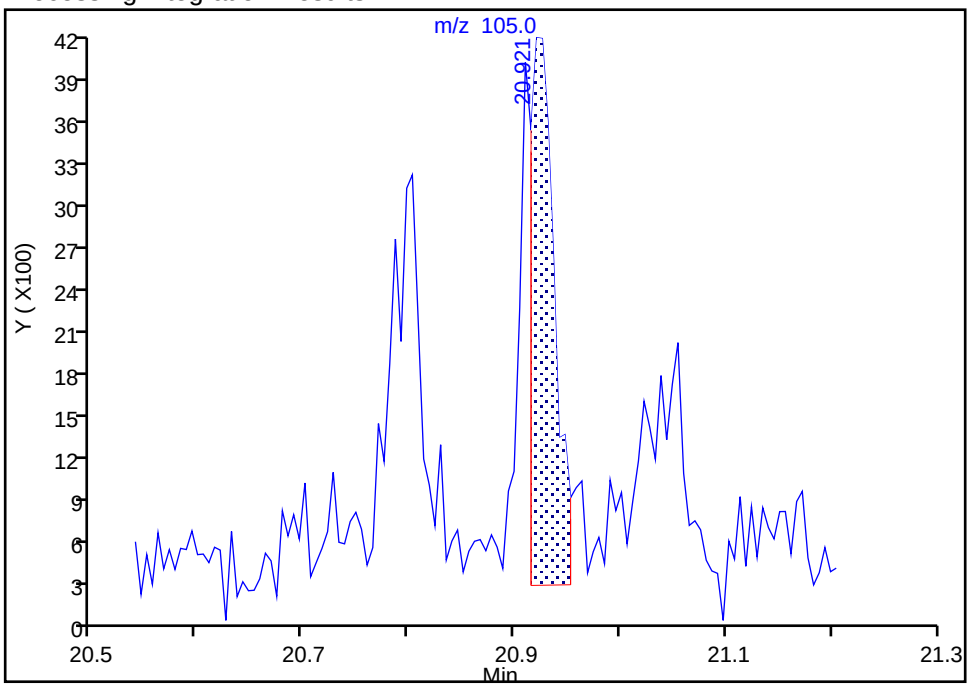
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

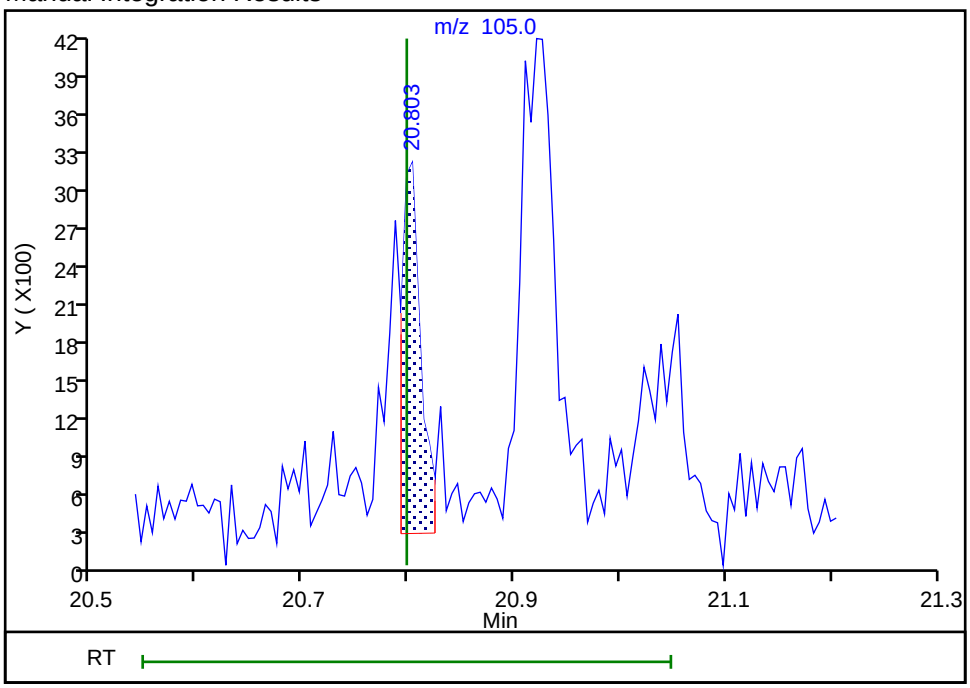
Processing Integration Results

RT: 20.92
Area: 6153
Amount: 0.026695
Amount Units: ppb v/v




Manual Integration Results

RT: 20.80
Area: 3630
Amount: 0.015749
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:37:53
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

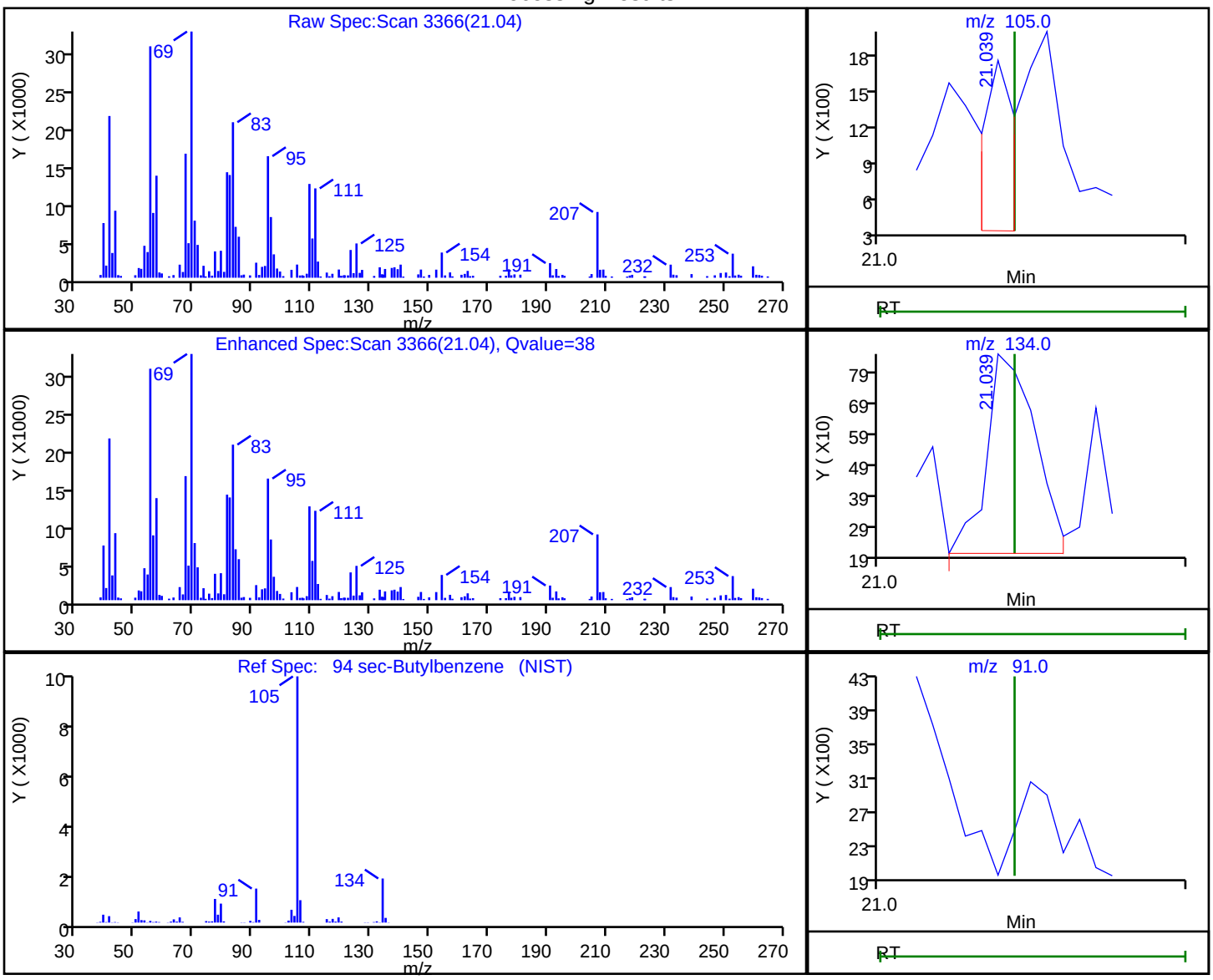
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.04 | 105.00 | 986 | 0.003043 |
| 21.04 | 134.00 | 722 | |
| 21.04 | 91.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

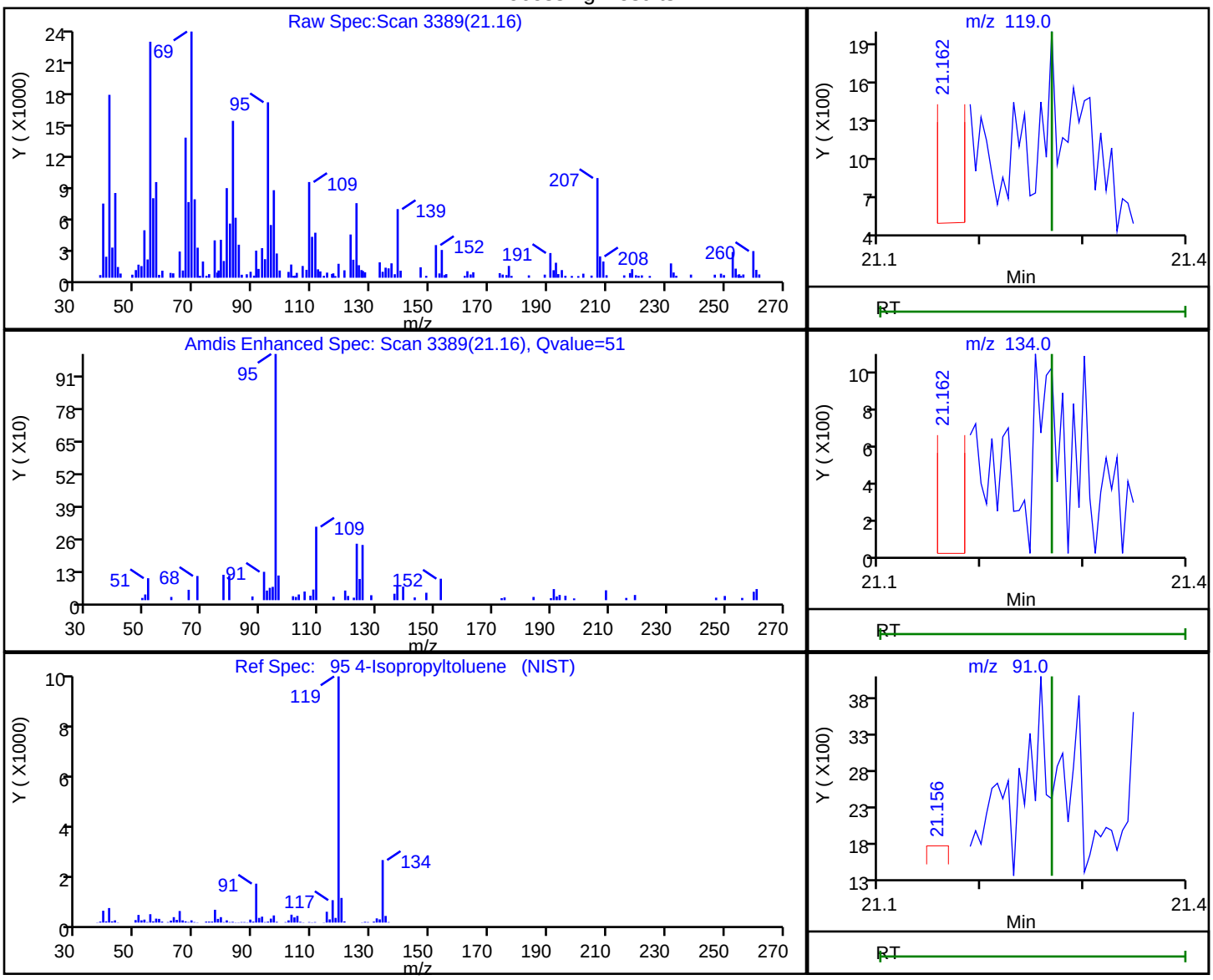
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.16 | 119.00 | 936 | 0.003370 |
| 21.16 | 134.00 | 665 | |
| 21.16 | 91.00 | 3573 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

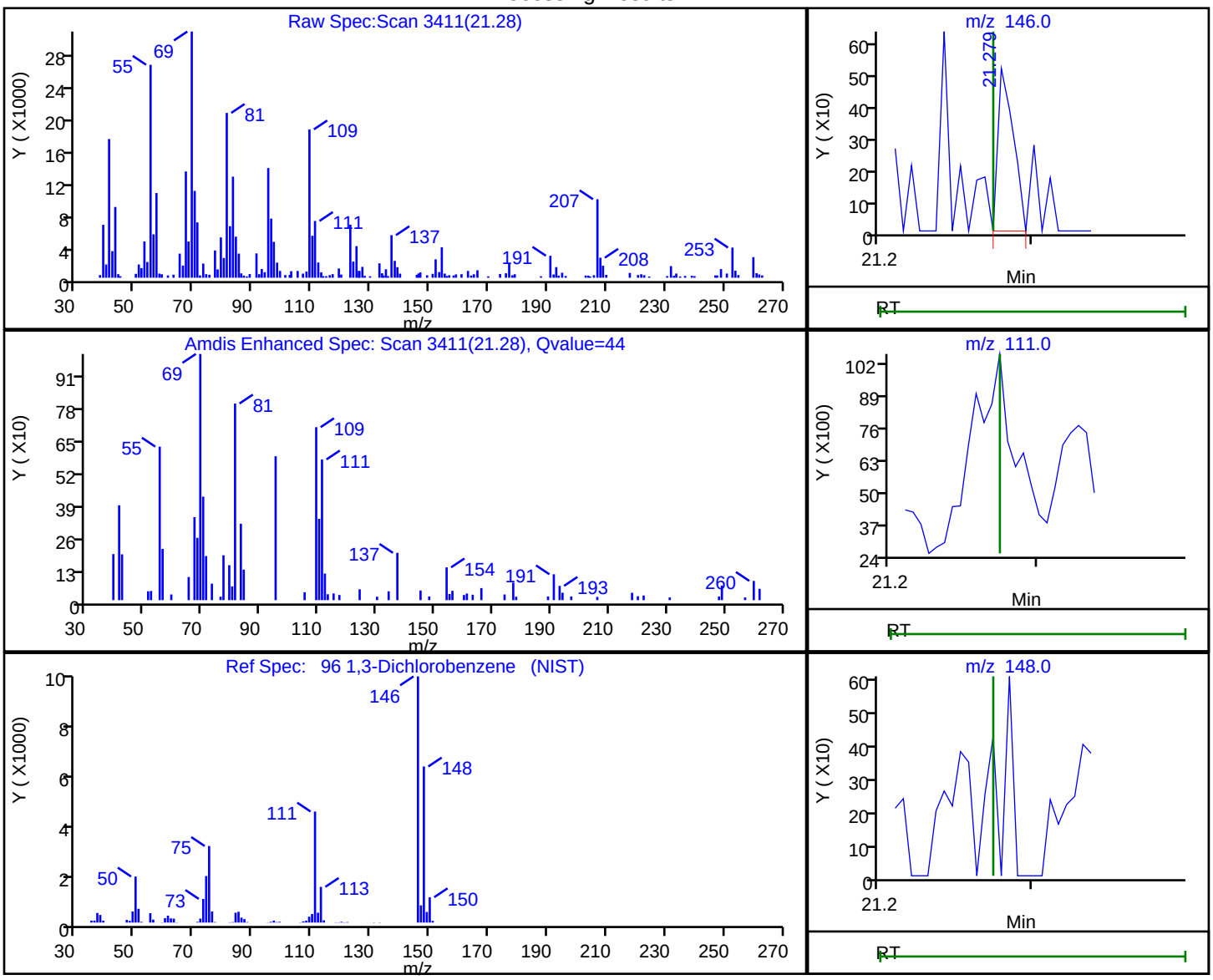
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.28 | 146.00 | 363 | 0.001943 |
| 21.27 | 111.00 | 0 | |
| 21.27 | 148.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

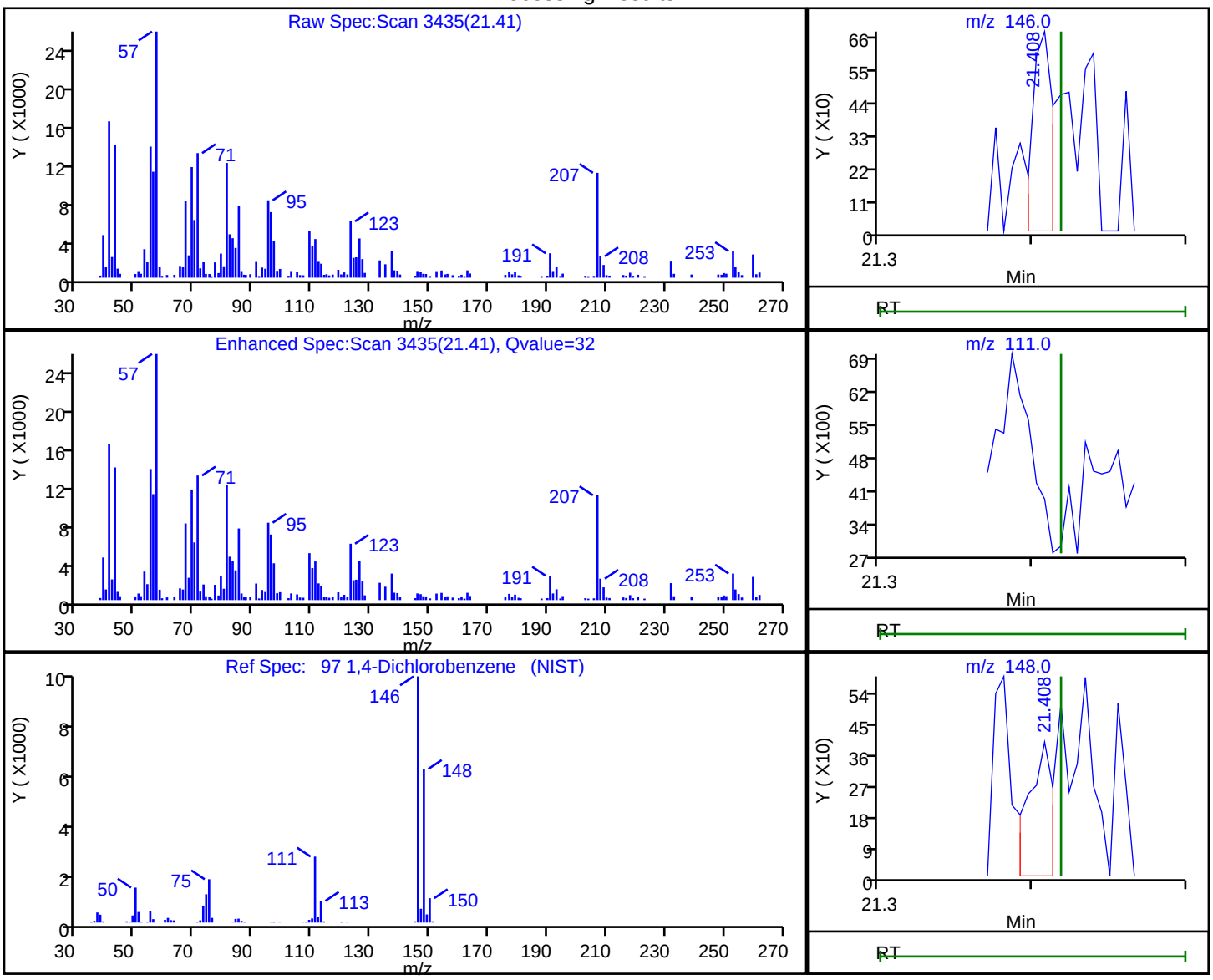
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.41 | 146.00 | 607 | 0.003398 |
| 21.41 | 148.00 | 430 | |
| 21.42 | 111.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

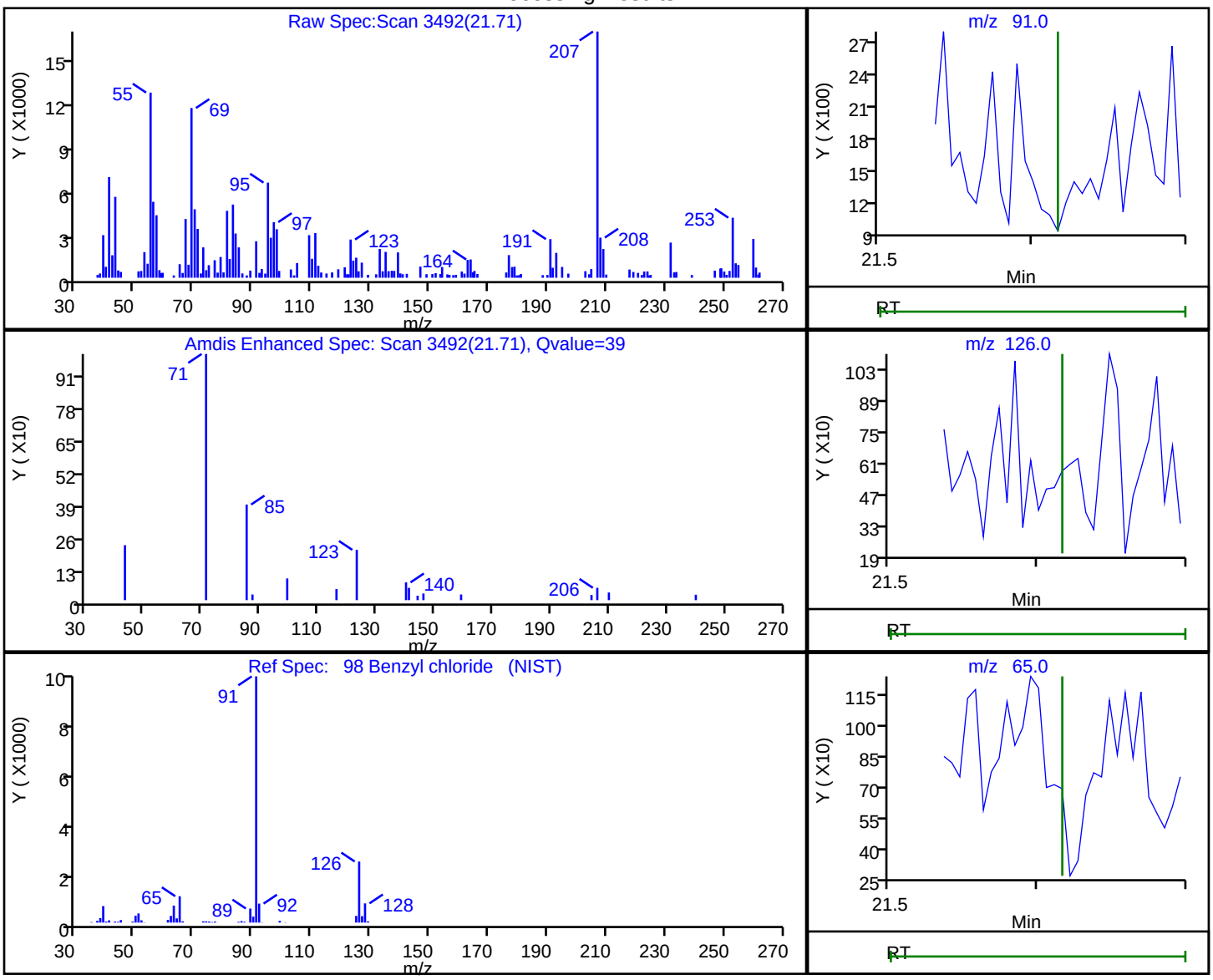
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.71 | 91.00 | 1624 | 0.007365 |
| 21.62 | 126.00 | 0 | |
| 21.62 | 65.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

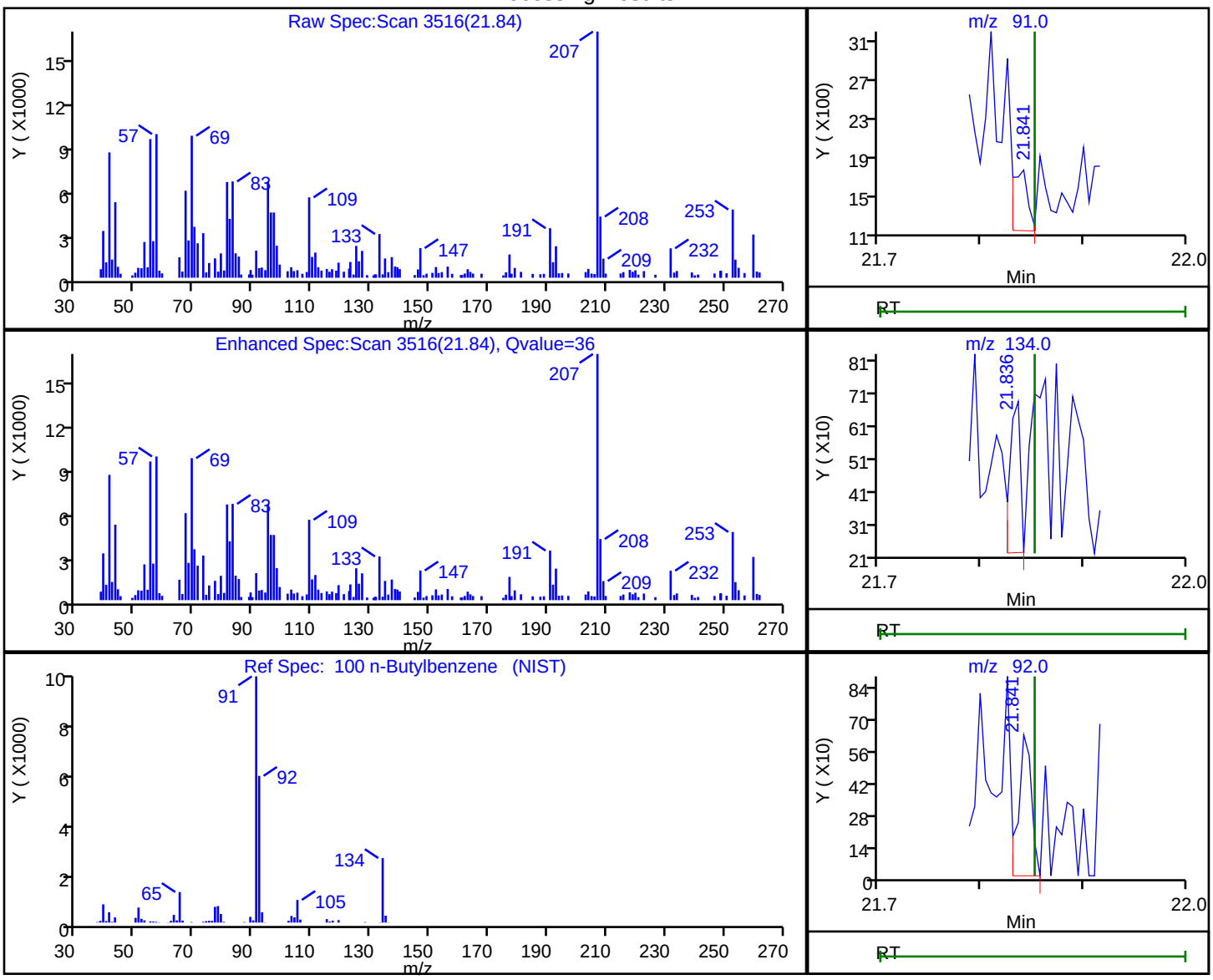
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.84 | 91.00 | 646 | 0.002551 |
| 21.84 | 134.00 | 331 | |
| 21.84 | 92.00 | 553 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

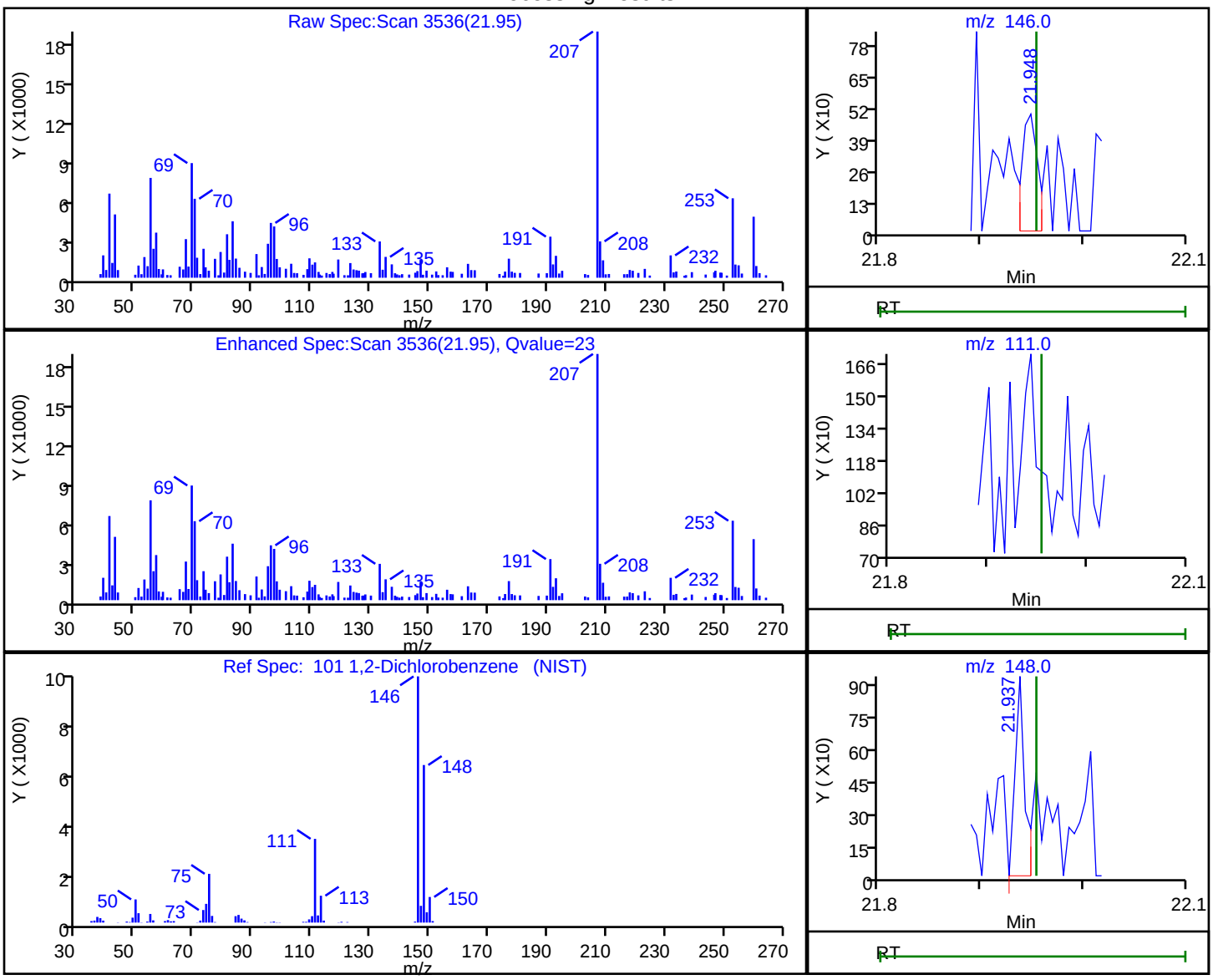
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.95 | 146.00 | 524 | 0.003052 |
| 21.94 | 148.00 | 611 | |
| 21.95 | 111.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

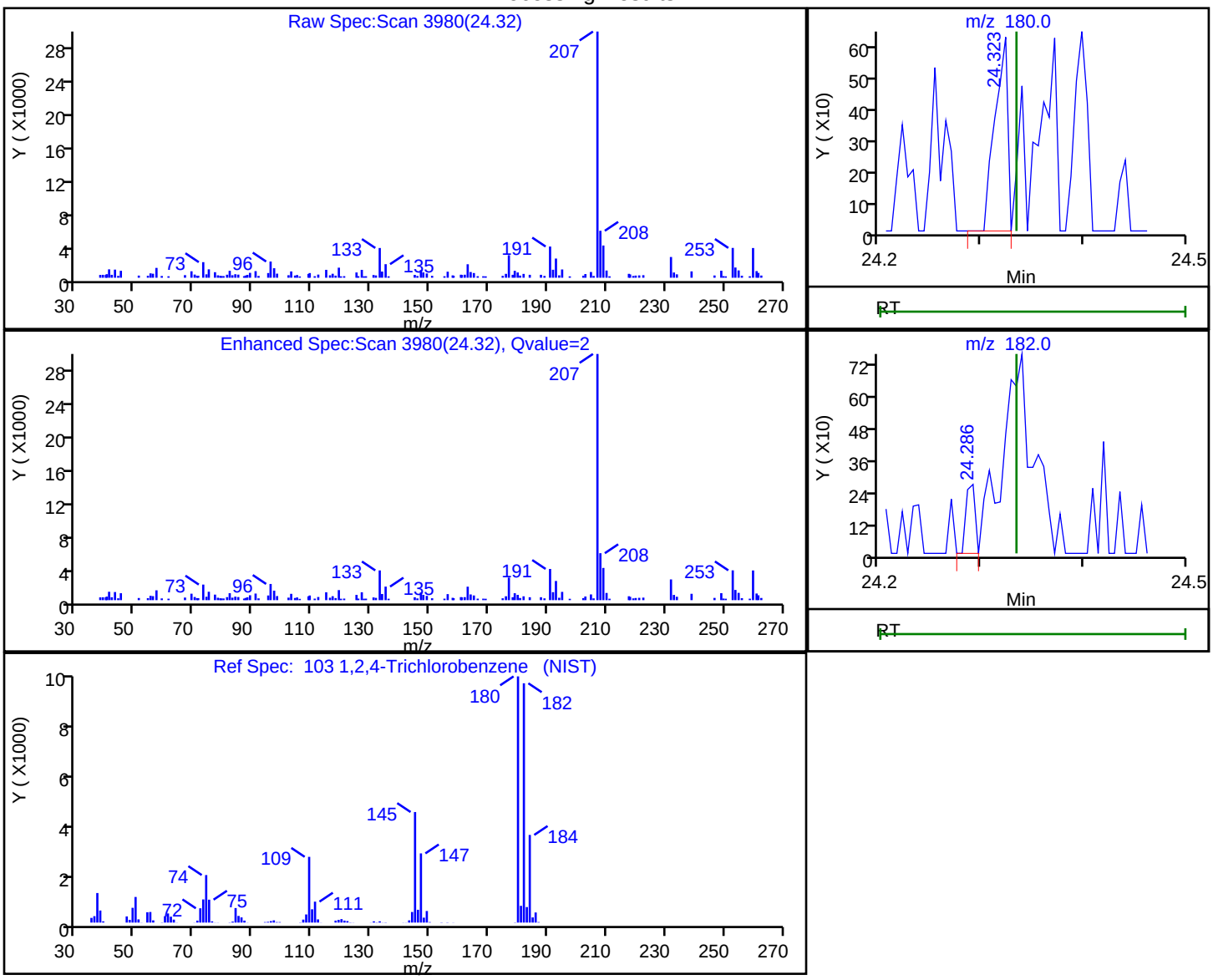
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.32 | 180.00 | 543 | 0.004208 |
| 24.29 | 182.00 | 162 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

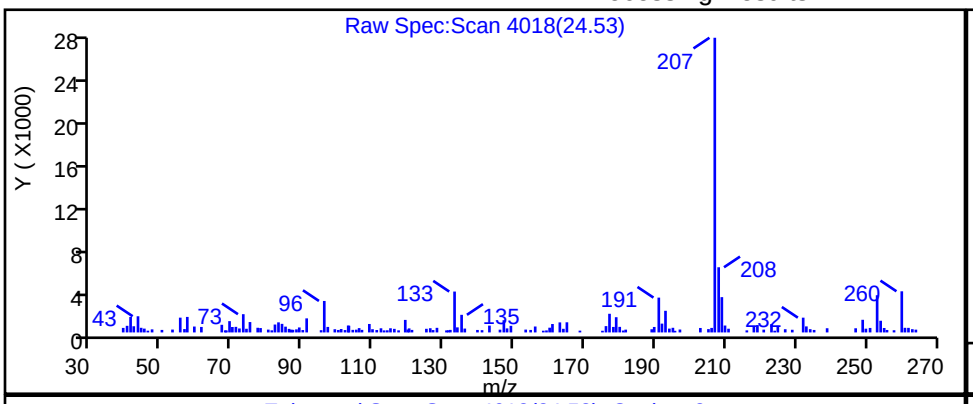
User Disabled Compound Report

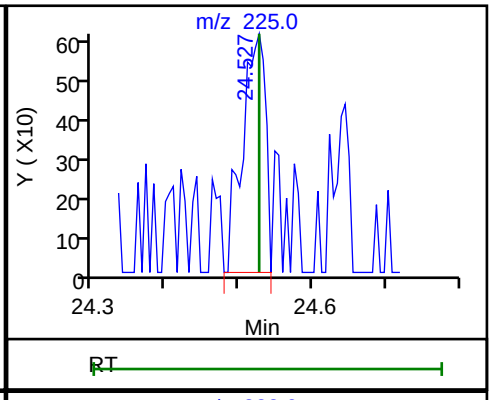
TestAmerica Burlington

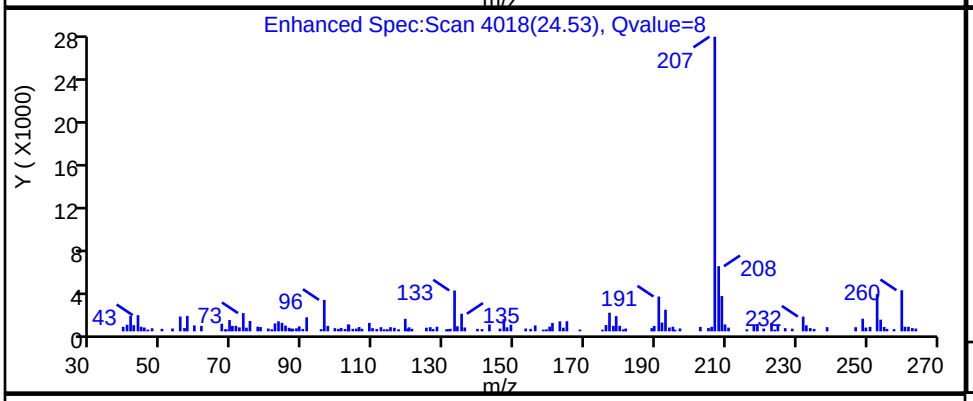
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

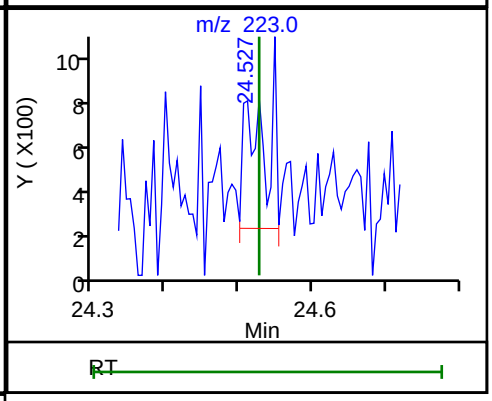
## 104 Hexachlorobutadiene, CAS: 87-68-3

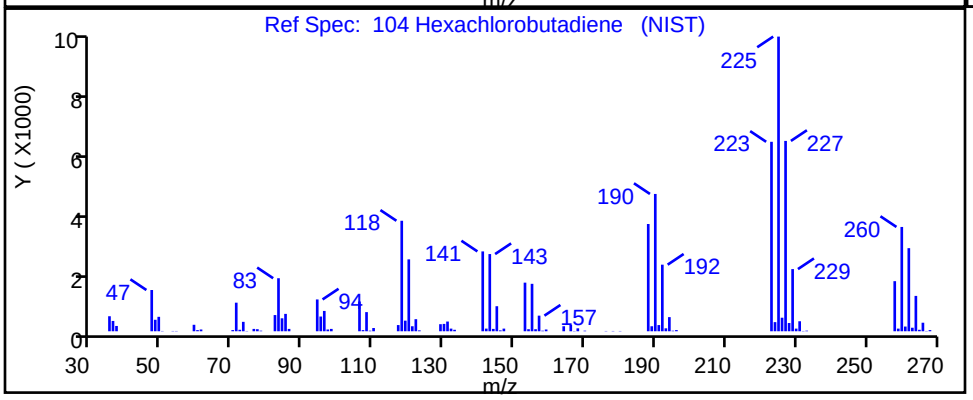
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 1350 | 0.010517 |
| 24.53 | 223.00 | 1236 | |

Reviewer: bunmaa, 07-Dec-2018 09:38:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

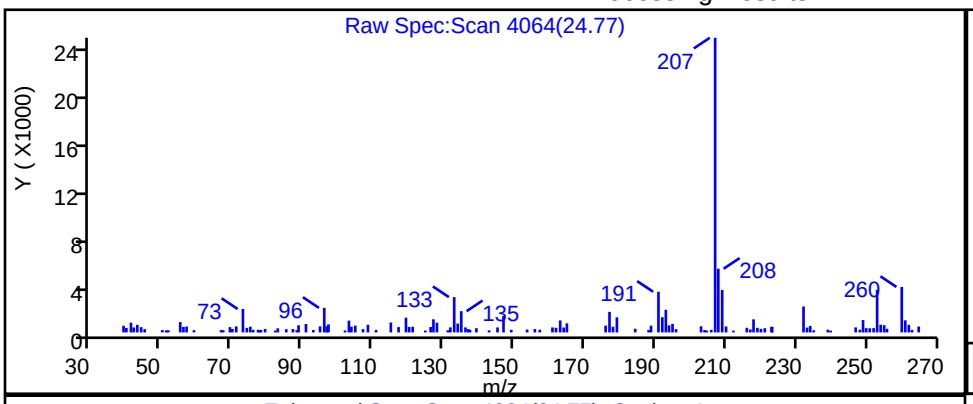
User Disabled Compound Report

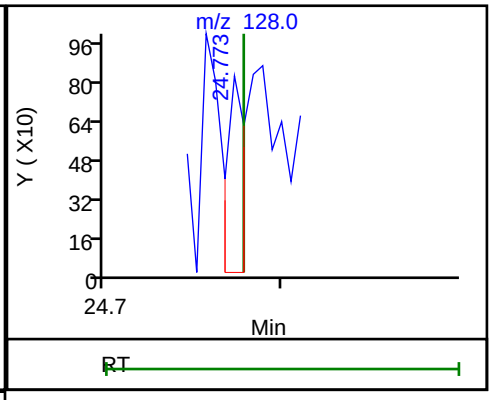
TestAmerica Burlington

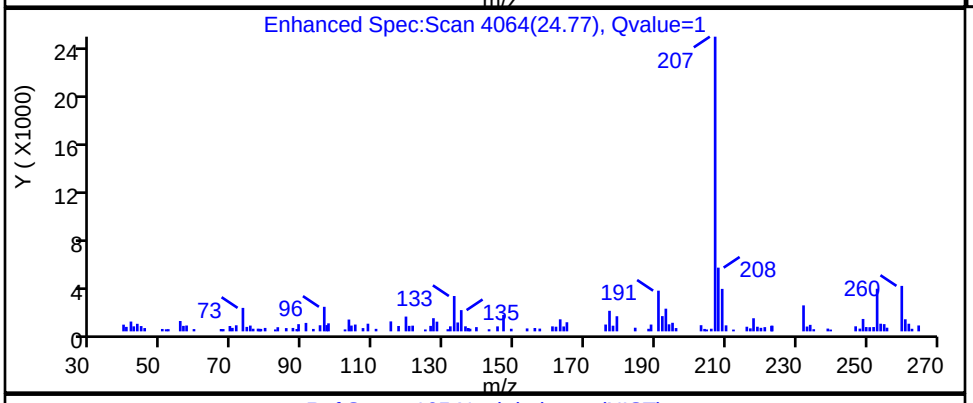
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D | | | | |
| Injection Date: | 06-Dec-2018 09:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-8 | Lab Sample ID: | 200-46353-8 | | |
| Client ID: | MP-2_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 24 | Worklist Smp#: | 24 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 20.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

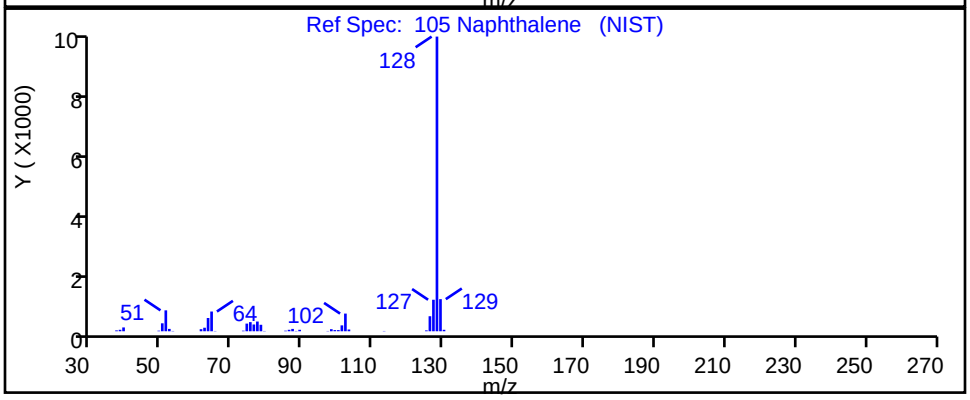
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.77 | 128.00 | 584 | 0.002334 |

Reviewer: bunmaa, 07-Dec-2018 09:38:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.86 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.76 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.63 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.2 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 2.5 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 34 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.99 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.6 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.99 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.80 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.053 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.24 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 4.4 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.23 | | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 3.6 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.7 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 1.3 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.38 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 1.1 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.47 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.40 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120  Lab Sample ID: 200-46353-9

Matrix: Air  Lab File ID: 200-33531-025.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 4.3 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 2.7 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.3 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.1 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 14 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 82 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 3.5 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 4.6 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 4.8 | | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 2.7 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.33 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.76 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 18 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 1.2 | | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 14 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 12 | | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 5.5 | | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.6 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 5.0 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 2.0 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 2.0 | | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120  Lab Sample ID: 200-46353-9

Matrix: Air  Lab File ID: 200-33531-025.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D
Lims ID: 200-46353-A-9
Client ID: MP-3_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 10:13:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-025
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 09:46:01 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0332

First Level Reviewer: guazzonig Date: 06-Dec-2018 13:49:30

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.153 | -0.011 | 96 | 166521 | 0.8604 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | -0.005 | 28 | 62571 | 0.7595 | M |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.347 | 3.337 | -0.006 | 89 | 22242 | 0.1527 | |
| 5 Chloromethane | 50 | 3.454 | 3.463 | -0.011 | 98 | 23777 | 0.6314 | |
| 6 Butane | 43 | 3.599 | 3.598 | -0.005 | 93 | 109489 | 2.16 | |
| 7 Vinyl chloride | 62 | | 3.647 | | | | ND | |
| 8 Butadiene | 54 | | 3.711 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.765 | 4.754 | 0.005 | 98 | 387064 | 2.53 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599 | 5.601 | -0.006 | 62 | 8013 | 0.0744 | M |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.846 | 5.853 | -0.010 | 99 | 1389909 | 34.4 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.001 | 0.000 | 99 | 60036 | 0.4922 | |
| 24 Isopropyl alcohol | 45 | 6.108 | 6.156 | 0.011 | 99 | 60732 | 1.36 | |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | ND | |
| 27 Methylene Chloride | 49 | 6.552 | 6.557 | -0.005 | 69 | 4098 | 0.0958 | M |
| 28 2-Methyl-2-propanol | 59 | 6.776 | 6.819 | 0.005 | 96 | 198661 | 2.91 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.948 | 6.943 | 0.000 | 57 | 1958 | 0.0341 | |
| 29 Methyl tert-butyl ether | 73 | 6.942 | 6.942 | -0.038 | 94 | 10744 | 0.1165 | M |
| 33 Hexane | 57 | 7.290 | 7.275 | 0.011 | 90 | 45507 | 0.99 | |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.788 | 0.000 | 99 | 22714 | 1.57 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.152 | 0.000 | 73 | 518756 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | ND | U |
| 42 Chloroform | 83 | 9.269 | 9.275 | 0.000 | 95 | 107395 | 0.99 | |
| 43 Cyclohexane | 84 | 9.521 | 9.531 | -0.010 | 89 | 34124 | 0.7976 | |
| 44 1,1,1-Trichloroethane | 97 | 9.548 | 9.537 | 0.006 | 46 | 9170 | 0.0885 | M |
| 45 Carbon tetrachloride | 117 | 9.767 | 9.778 | -0.016 | 23 | 5852 | 0.0529 | |
| 46 Isooctane | 57 | 10.189 | 10.189 | -0.006 | 31 | 13158 | 0.0930 | M |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 47 Benzene | 78 | 10.211 | 10.211 | -0.005 | 95 | 23695 | 0.2387 | |
| | 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | U |
| | 49 n-Heptane | 43 | 10.564 | 10.559 | -0.011 | 90 | 224479 | 4.40 | |
| * | 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 1864000 | 10.0 | |
| | 53 Trichloroethene | 95 | 11.484 | 11.478 | 0.000 | 51 | 14649 | 0.2255 | M |
| | 54 1,2-Dichloropropane | 63 | | 12.030 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.206 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 12.286 | | | | ND | U |
| | 58 Dichlorobromomethane | 83 | | 12.549 | | | | ND | U |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | ND | U |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | U |
| | 65 Toluene | 92 | 14.057 | 14.068 | -0.011 | 94 | 306005 | 3.62 | |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | ND | U |
| | 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 15.138 | 15.143 | -0.005 | 95 | 176185 | 1.74 | |
| | 69 2-Hexanone | 43 | 15.528 | 15.528 | 0.021 | 87 | 99734 | 1.34 | |
| | 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.047 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2086875 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| | 76 Ethylbenzene | 91 | 17.187 | 17.187 | 0.005 | 59 | 71944 | 0.3779 | |
| | 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.427 | 0.005 | 0 | 88259 | 1.14 | |
| | 79 o-Xylene | 106 | 18.289 | 18.294 | -0.005 | 97 | 34516 | 0.4707 | |
| | 80 Styrene | 104 | 18.342 | 18.342 | 0.005 | 48 | 17192 | 0.1531 | |
| | 81 Bromoform | 173 | 18.776 | 18.775 | -0.005 | 53 | 8229 | 0.0744 | M |
| | 82 Isopropylbenzene | 105 | | 19.049 | | | | ND | MU |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| | 85 N-Propylbenzene | 91 | 19.846 | 19.840 | 0.000 | 65 | 25957 | 0.1017 | |
| | 89 2-Chlorotoluene | 91 | | 20.044 | | | | ND | U |
| | 88 4-Ethyltoluene | 105 | 20.060 | 20.060 | 0.006 | 95 | 21131 | 0.0972 | M |
| | 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.167 | 0.000 | 54 | 22847 | 0.1228 | M |
| | 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.803 | 0.000 | 94 | 73570 | 0.4010 | |
| | 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| | 95 4-Isopropyltoluene | 119 | 21.263 | 21.275 | -0.006 | 54 | 15521 | 0.0702 | |
| | 96 1,3-Dichlorobenzene | 146 | | 21.274 | | | | ND | U |
| | 97 1,4-Dichlorobenzene | 146 | | 21.418 | | | | ND | U |
| | 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.852 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.953 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| | 104 Hexachlorobutadiene | 225 | | 24.526 | | | | ND | U |
| | 105 Naphthalene | 128 | 24.778 | 24.786 | 0.000 | 94 | 7618 | 0.0383 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15GIS_00015 | Amount Added: | 20.00 | Units: mL | Run Reagent |

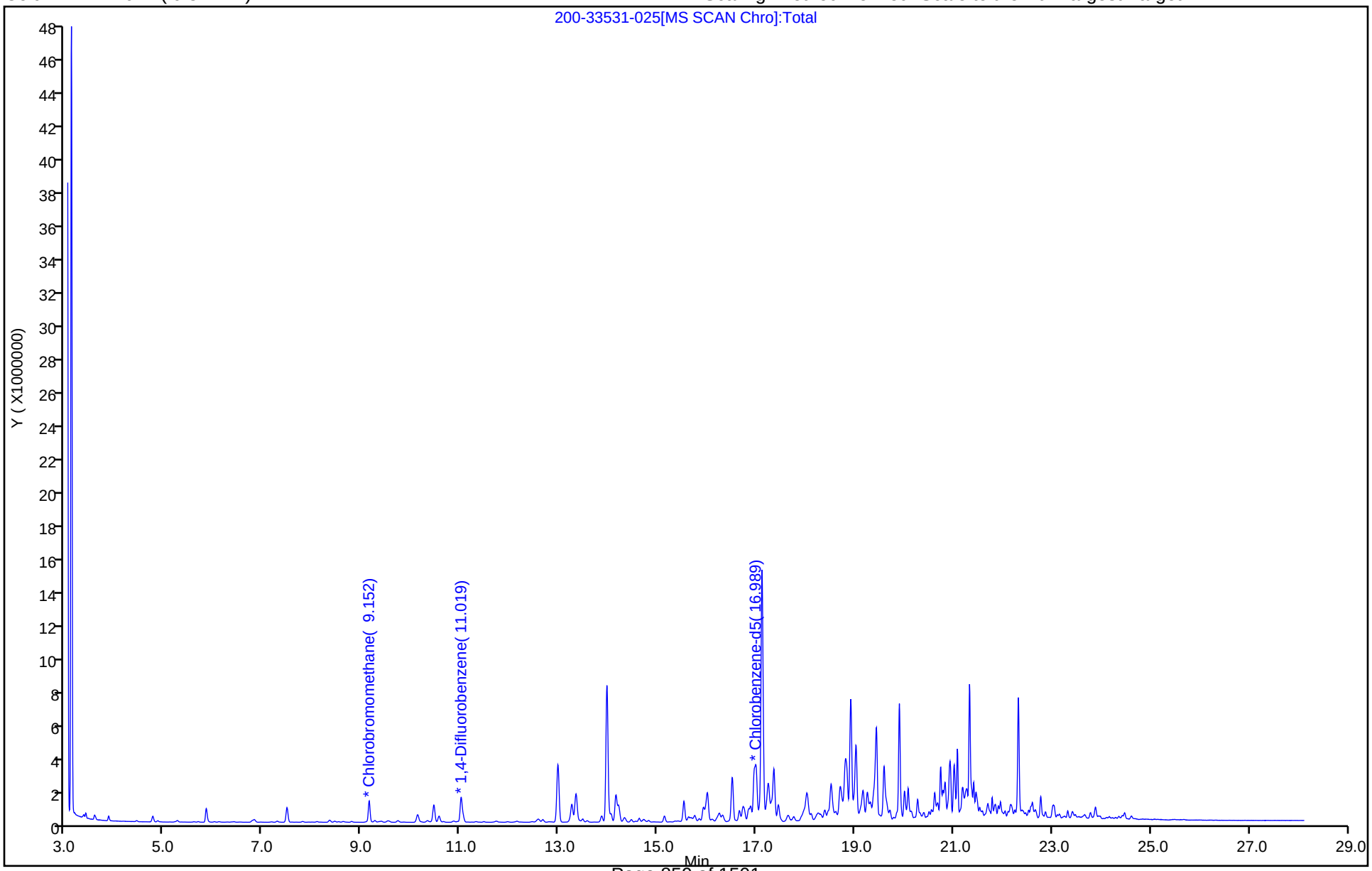
Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | Worklist Smp#: | 25 |
| Client ID: | MP-3_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 25 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



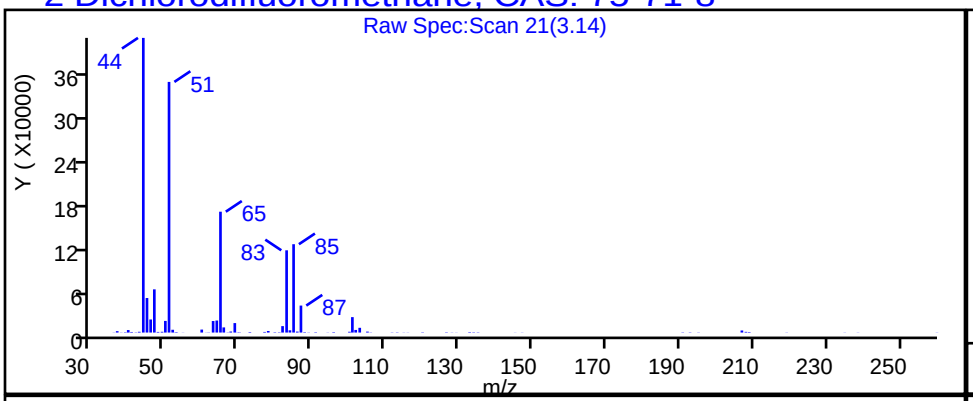
Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

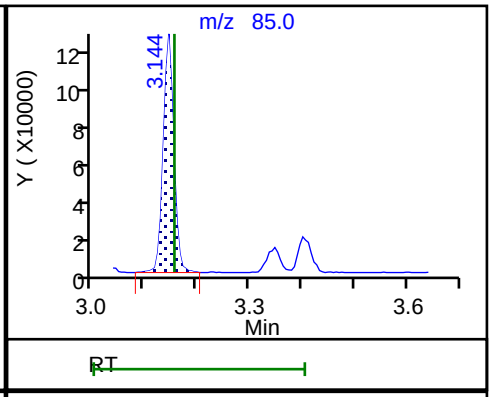
TestAmerica Burlington

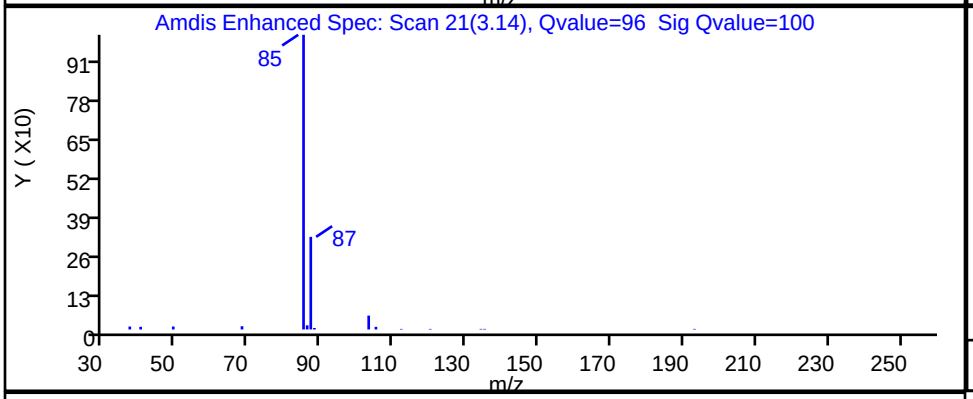
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

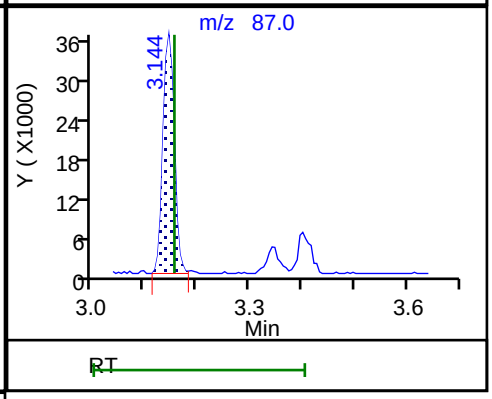
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

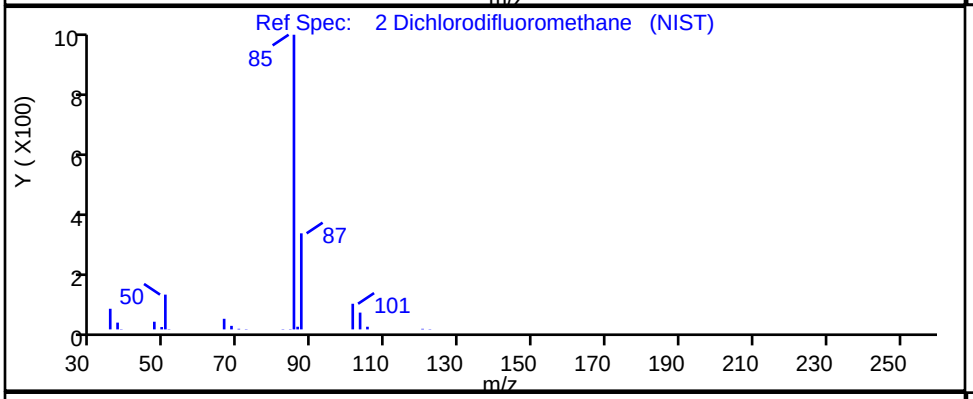
## 2 Dichlorodifluoromethane, CAS: 75-71-8

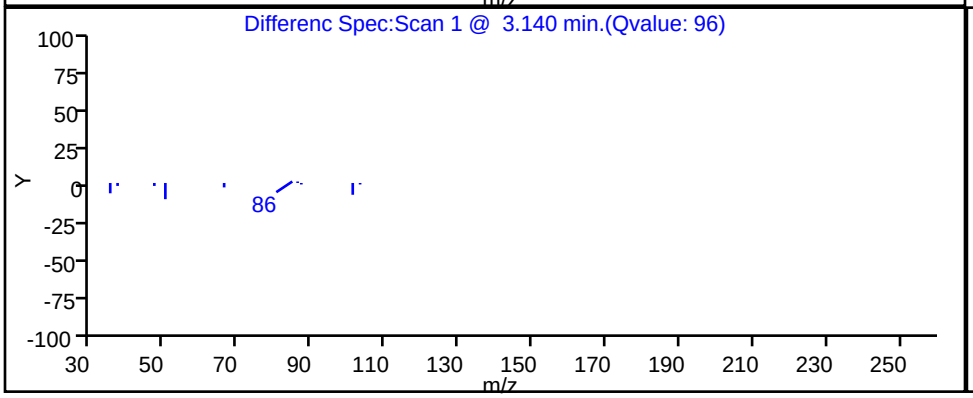


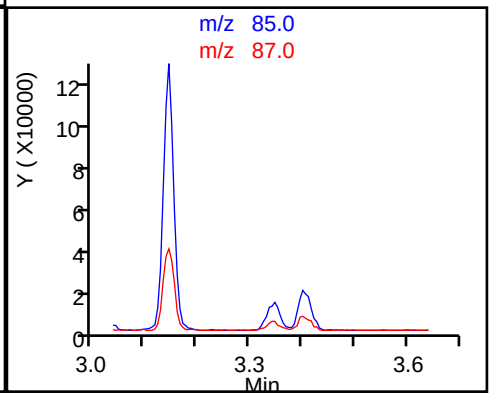



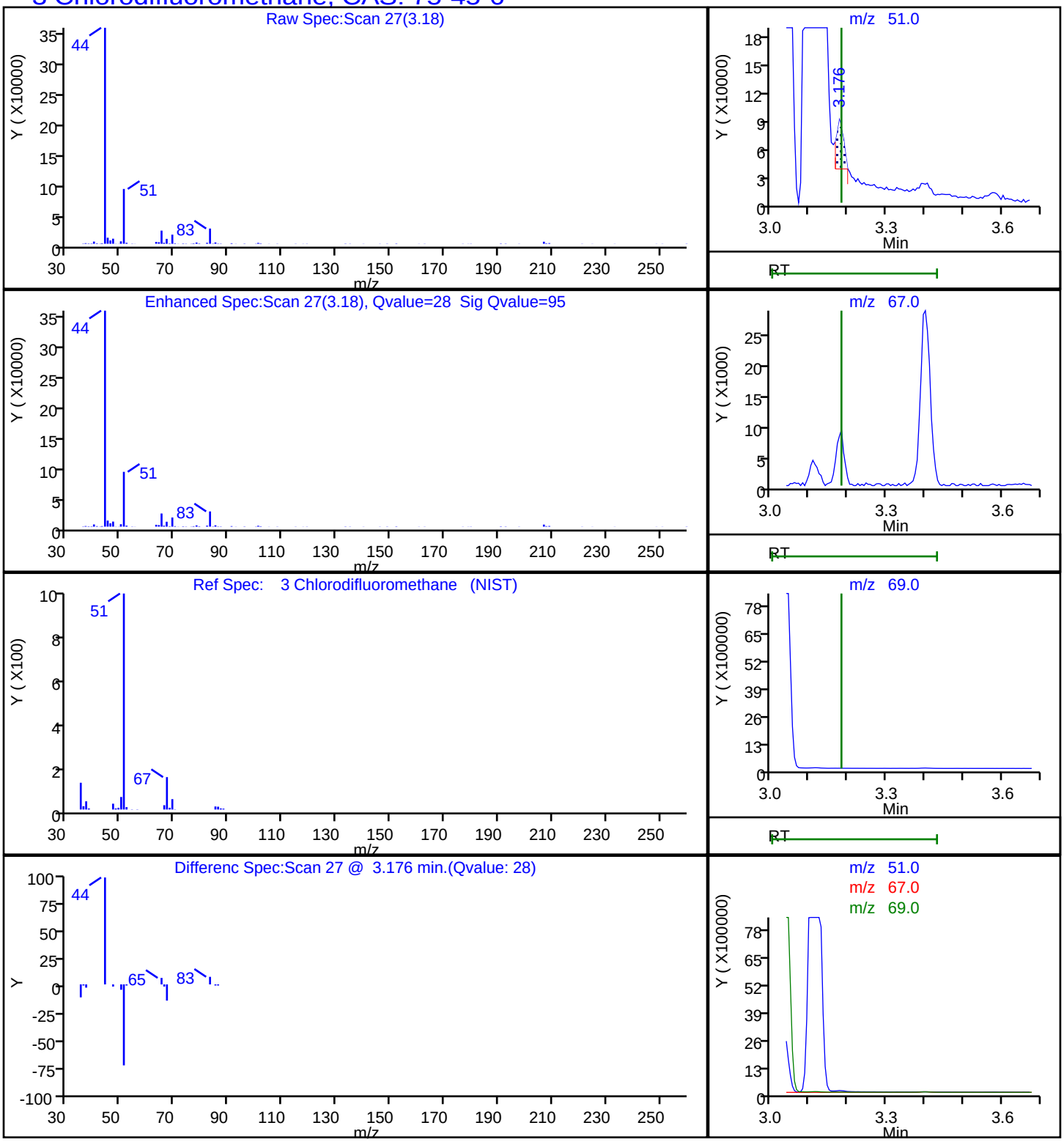
Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6



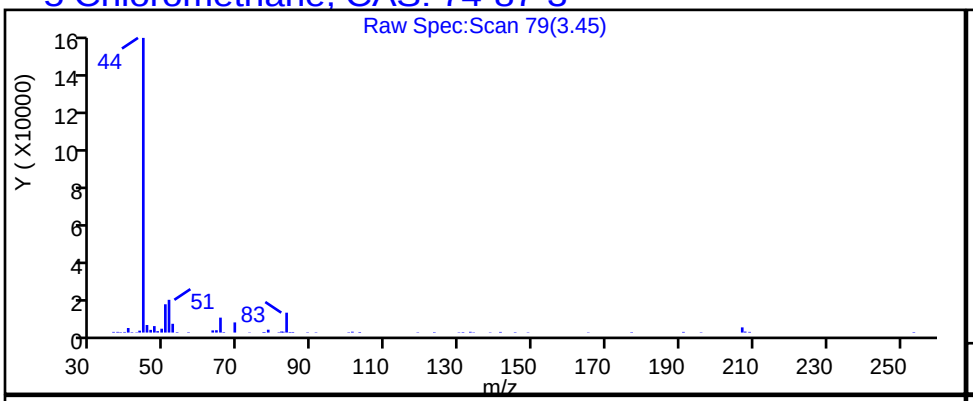
Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

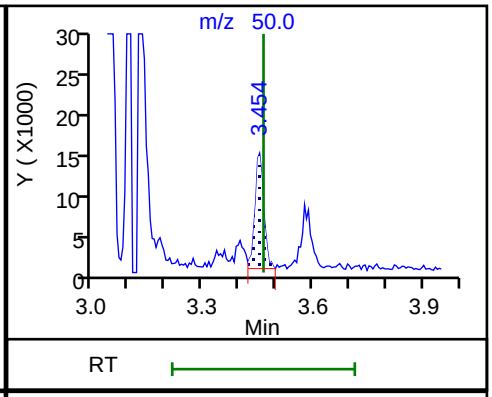
TestAmerica Burlington

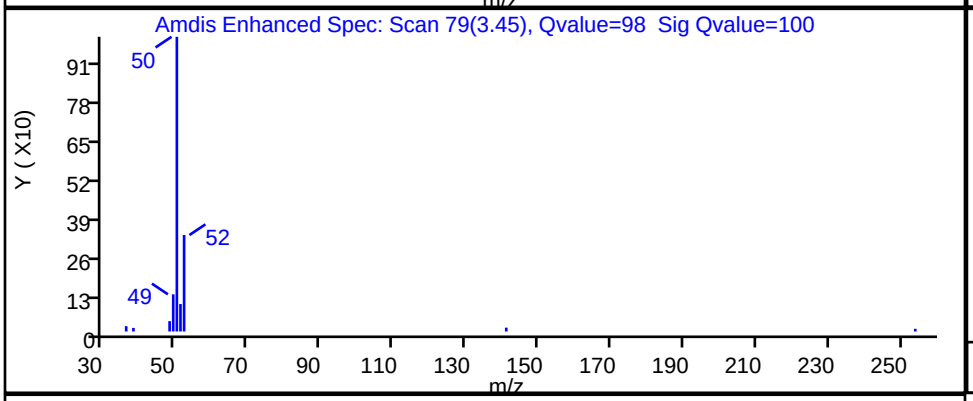
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

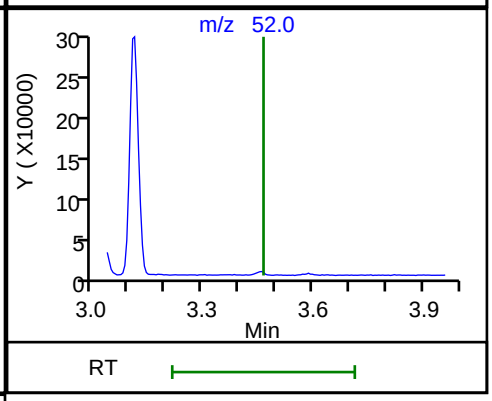
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

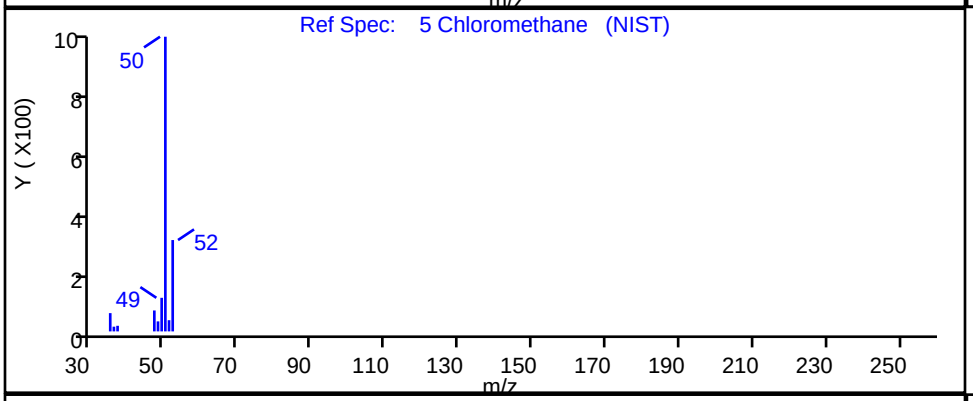
## 5 Chloromethane, CAS: 74-87-3

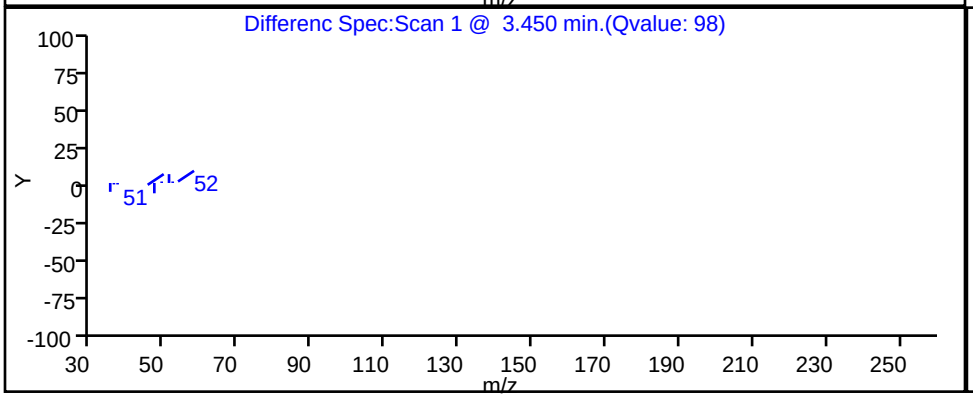


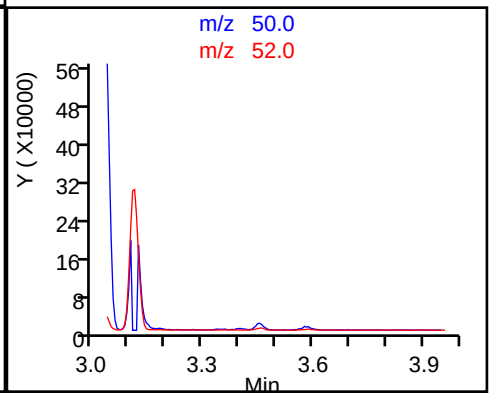



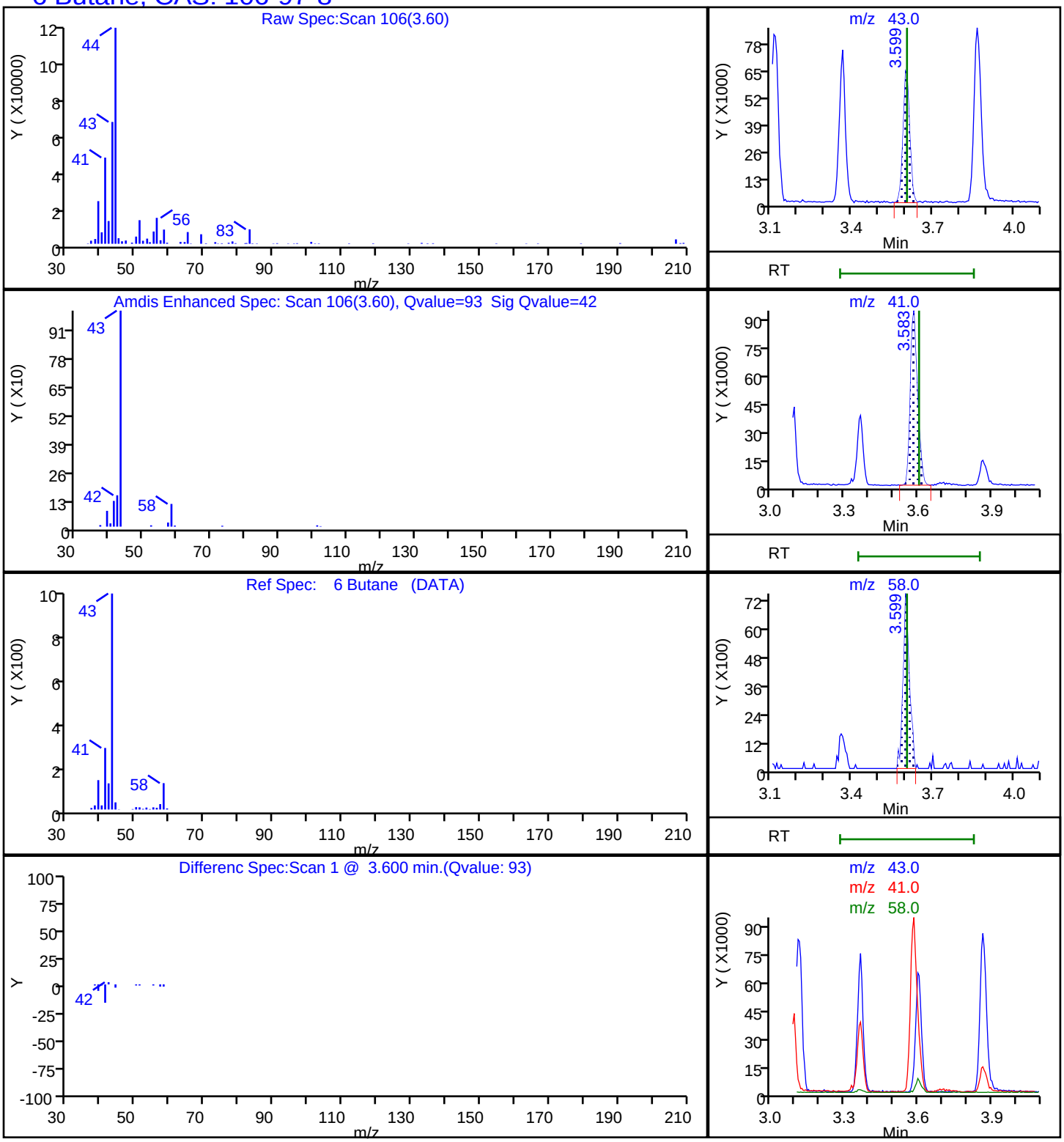
Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | |
|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 |
| Client ID: | MP-3_20181120 | | |
| Operator ID: | ert | ALS Bottle#: | 25 Worklist Smp#: 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN |

## 6 Butane, CAS: 106-97-8



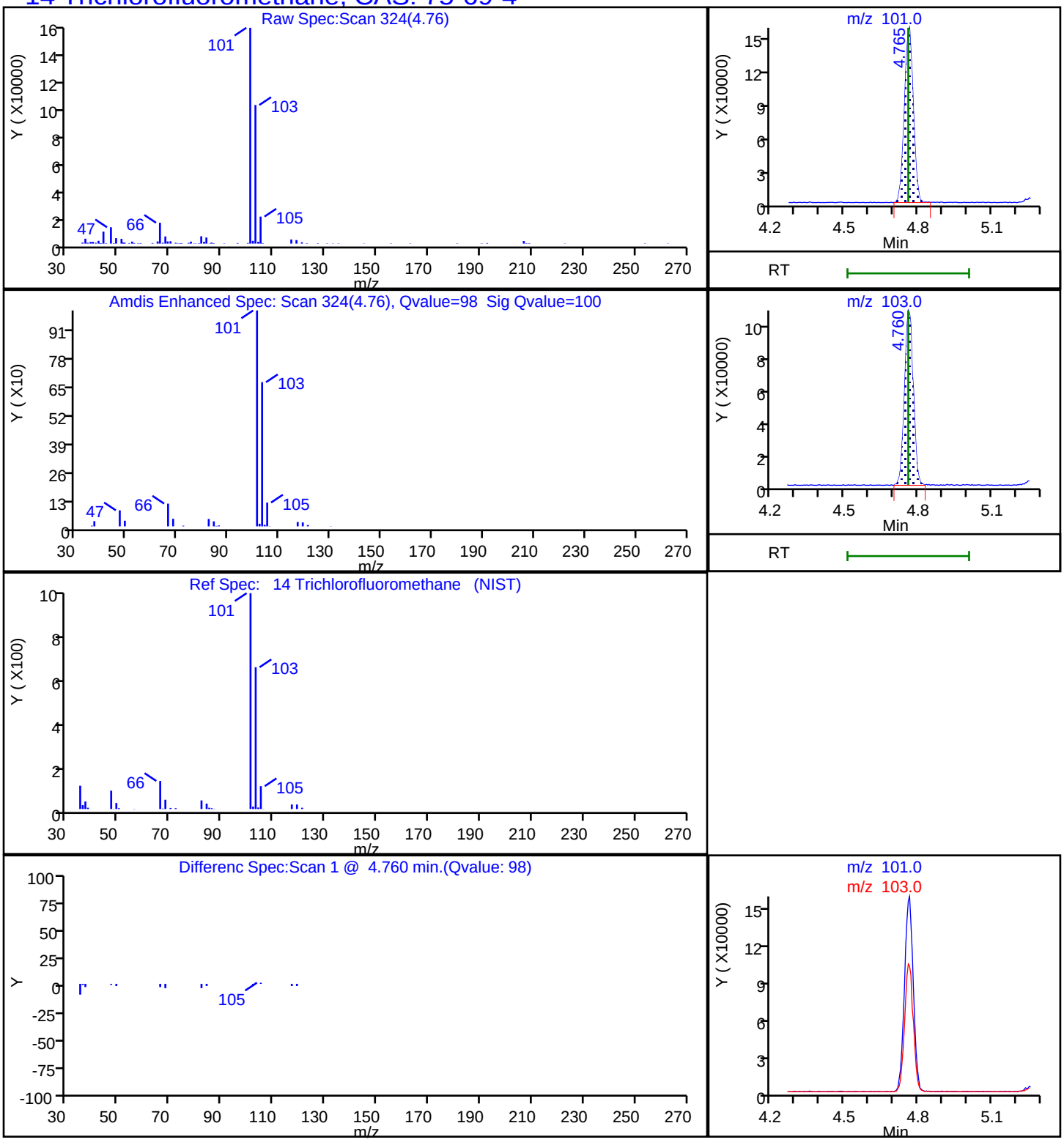
Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4



Report Date: 07-Dec-2018 09:46:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

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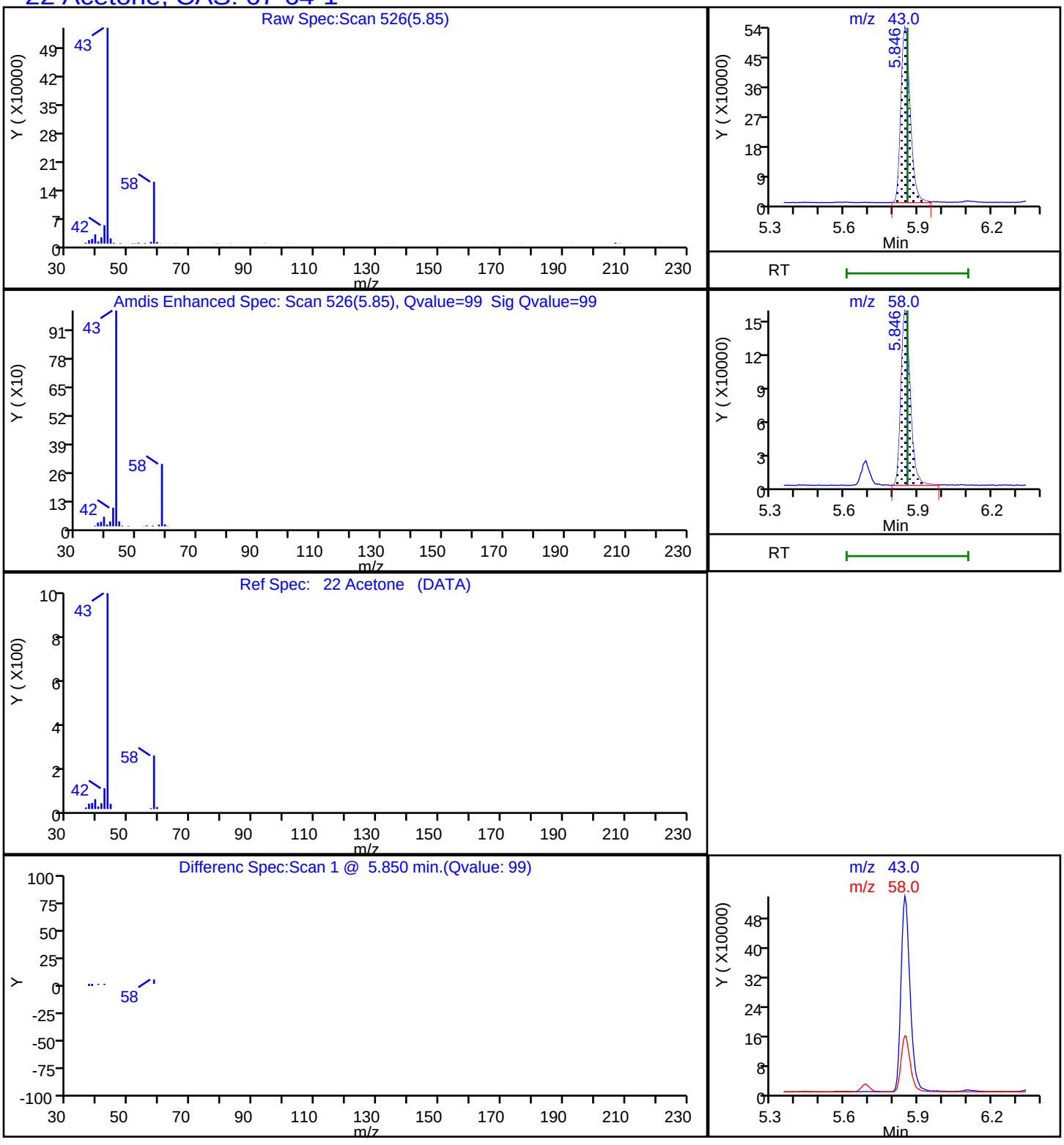
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



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TestAmerica Burlington

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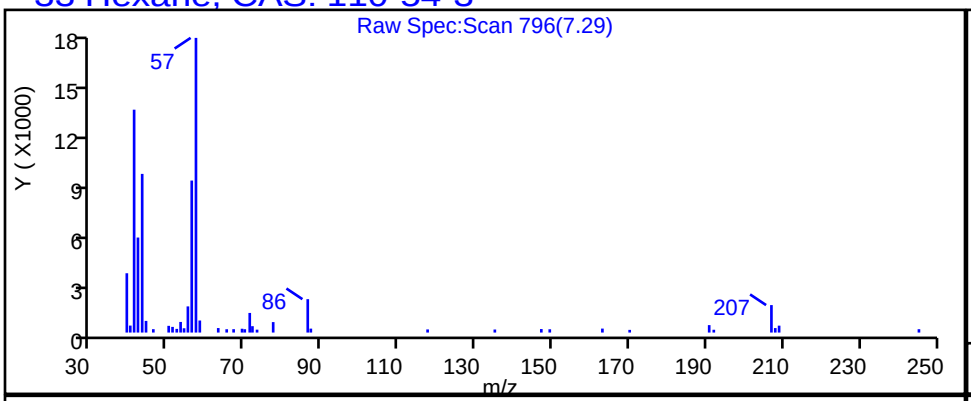
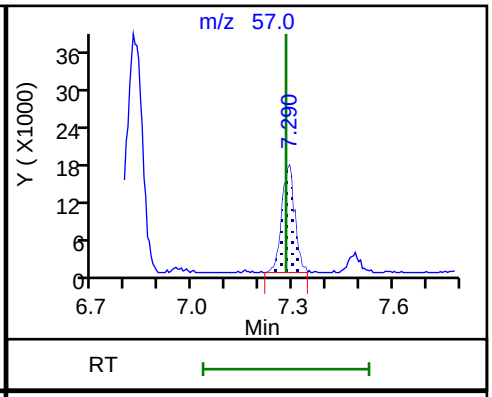
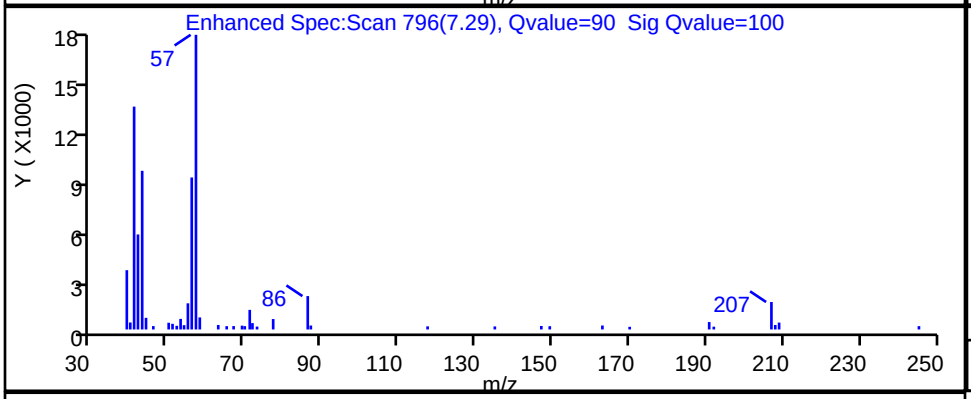
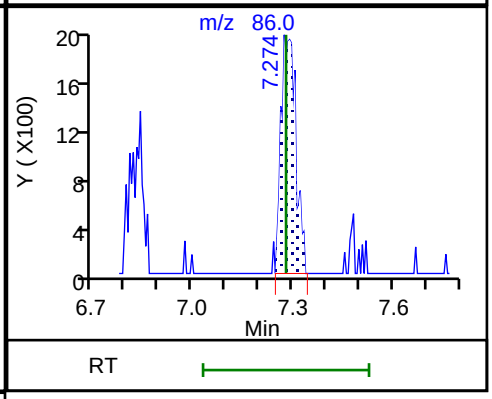
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

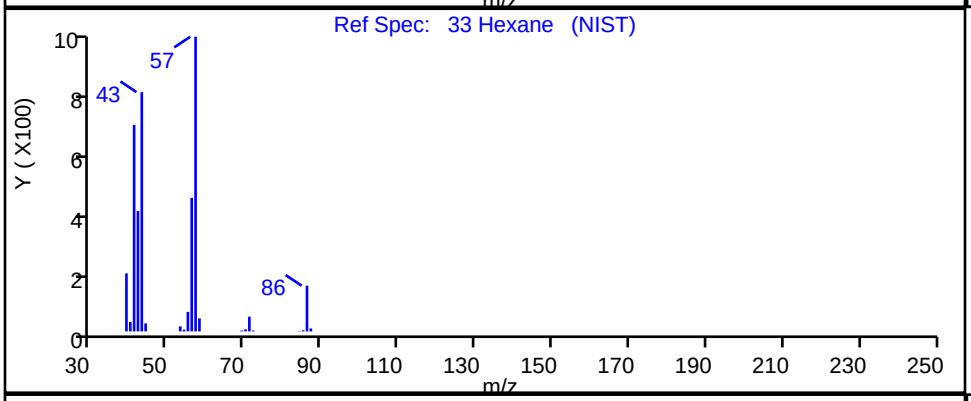
## 33 Hexane, CAS: 110-54-3

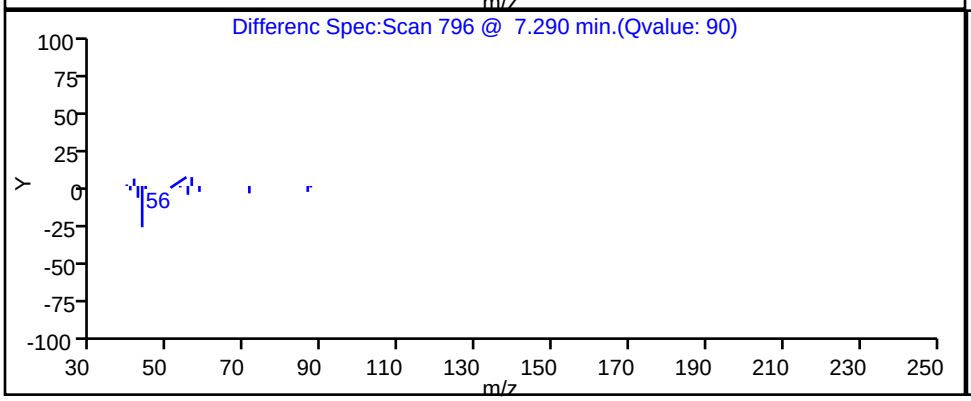


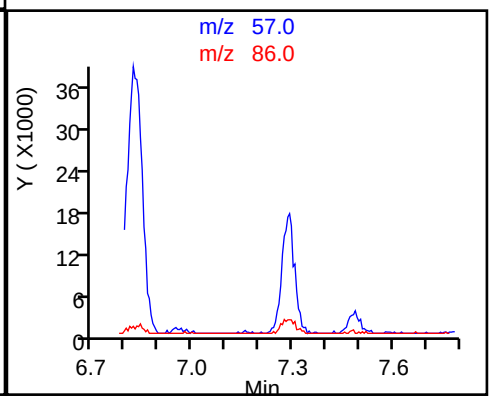



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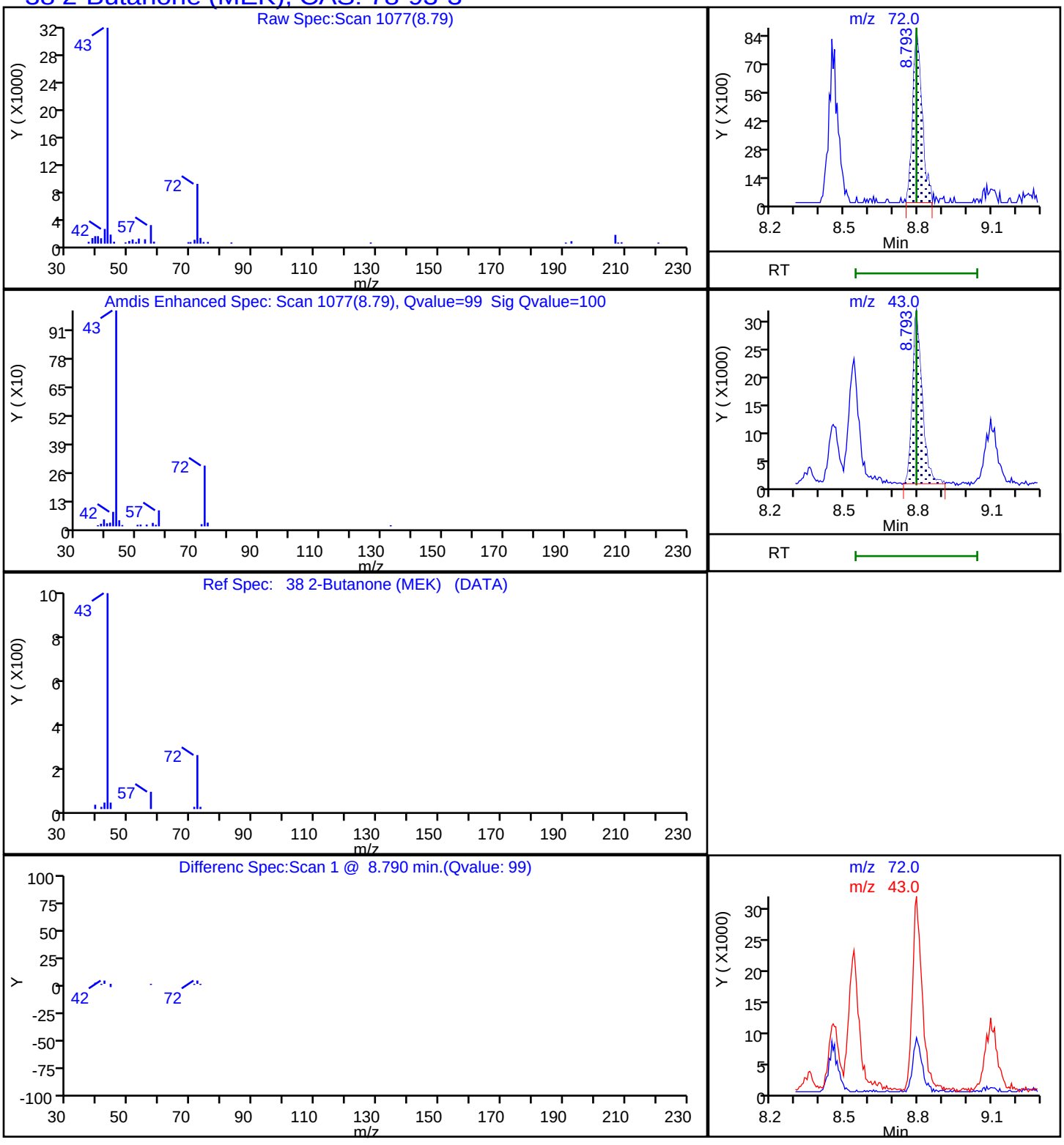
TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 38 2-Butanone (MEK), CAS: 78-93-3



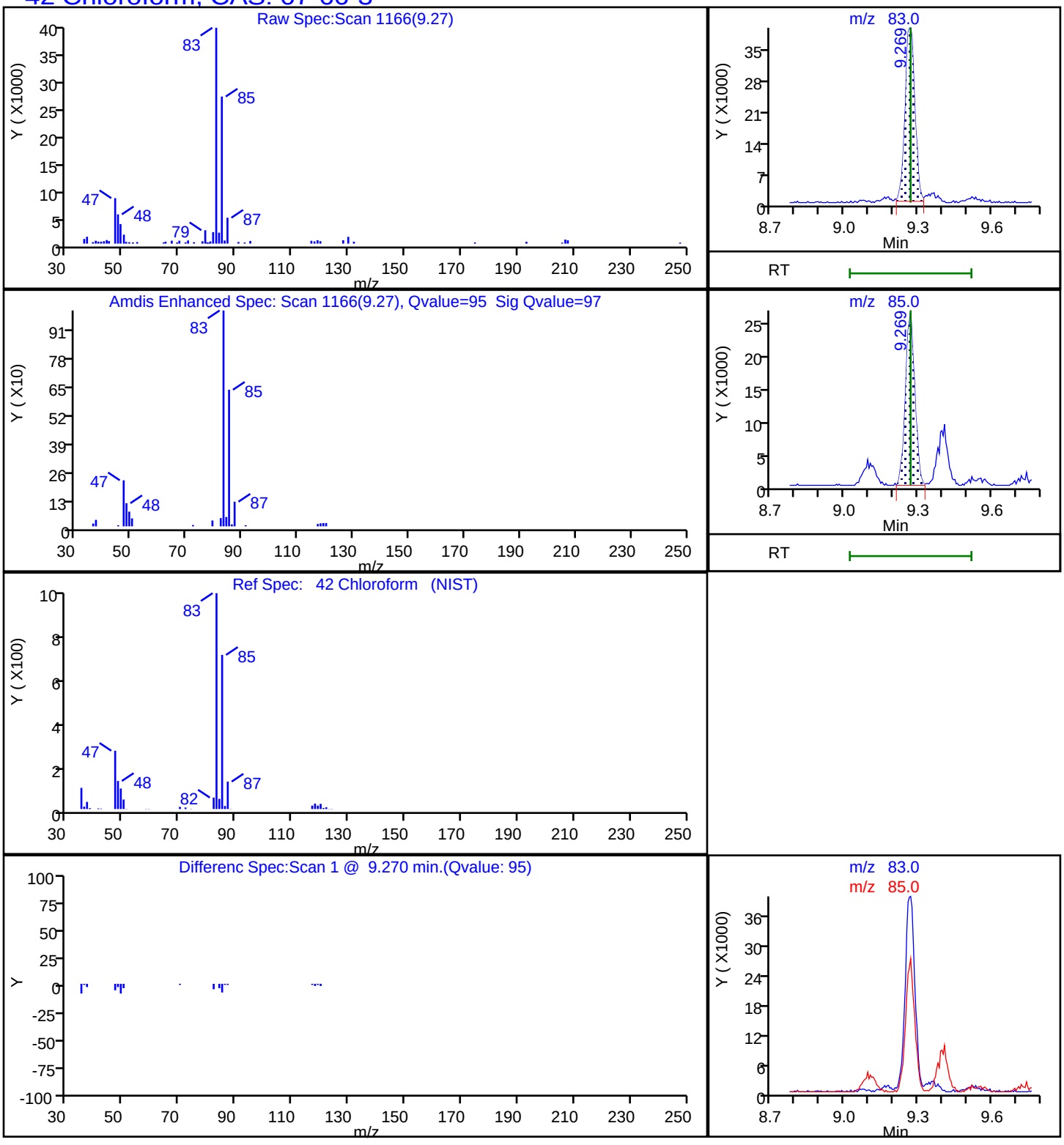
Report Date: 07-Dec-2018 09:46:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3



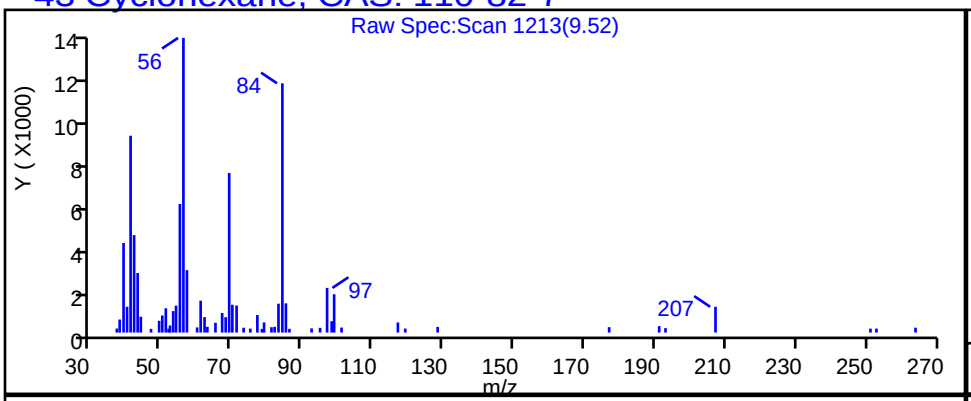
Report Date: 07-Dec-2018 09:46:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

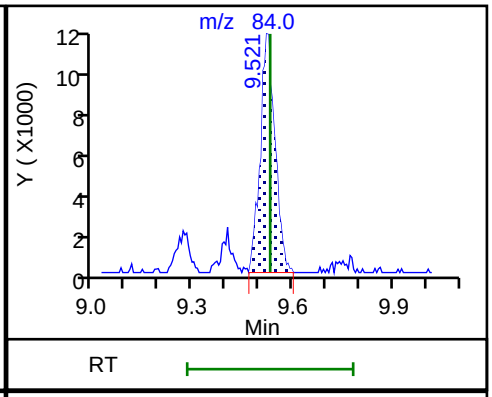
TestAmerica Burlington

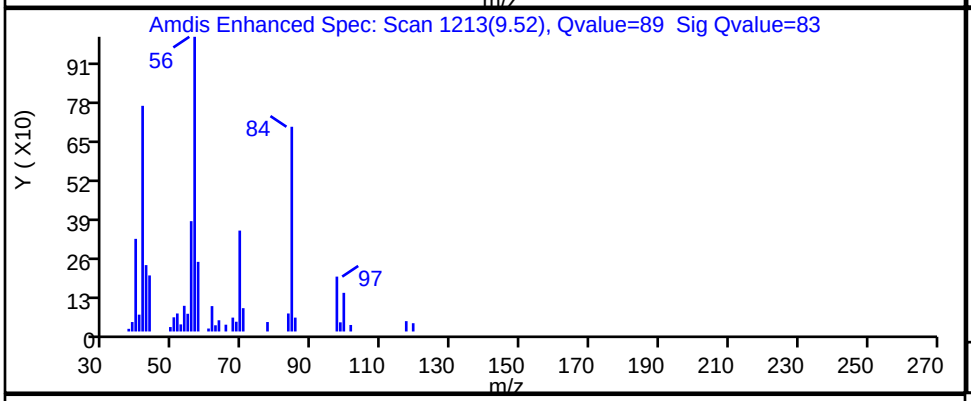
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

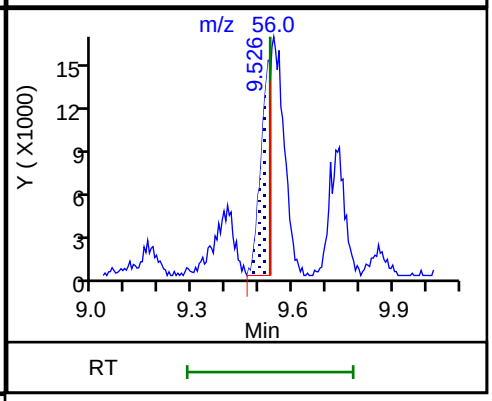
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

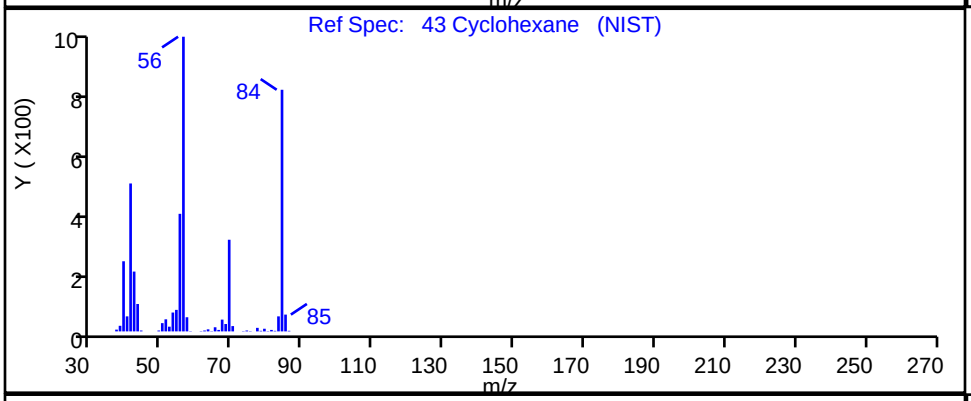
## 43 Cyclohexane, CAS: 110-82-7

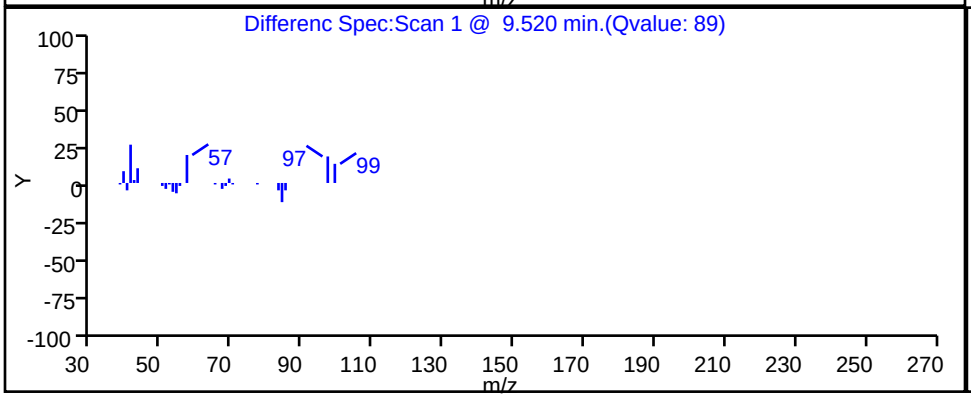


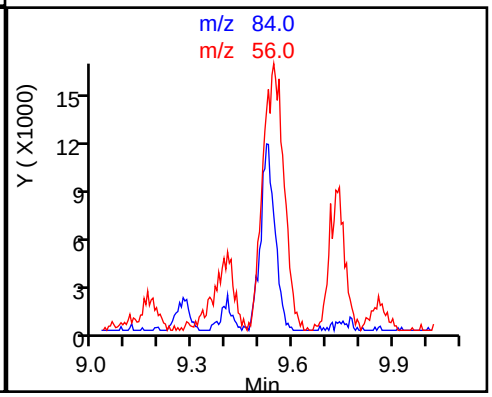



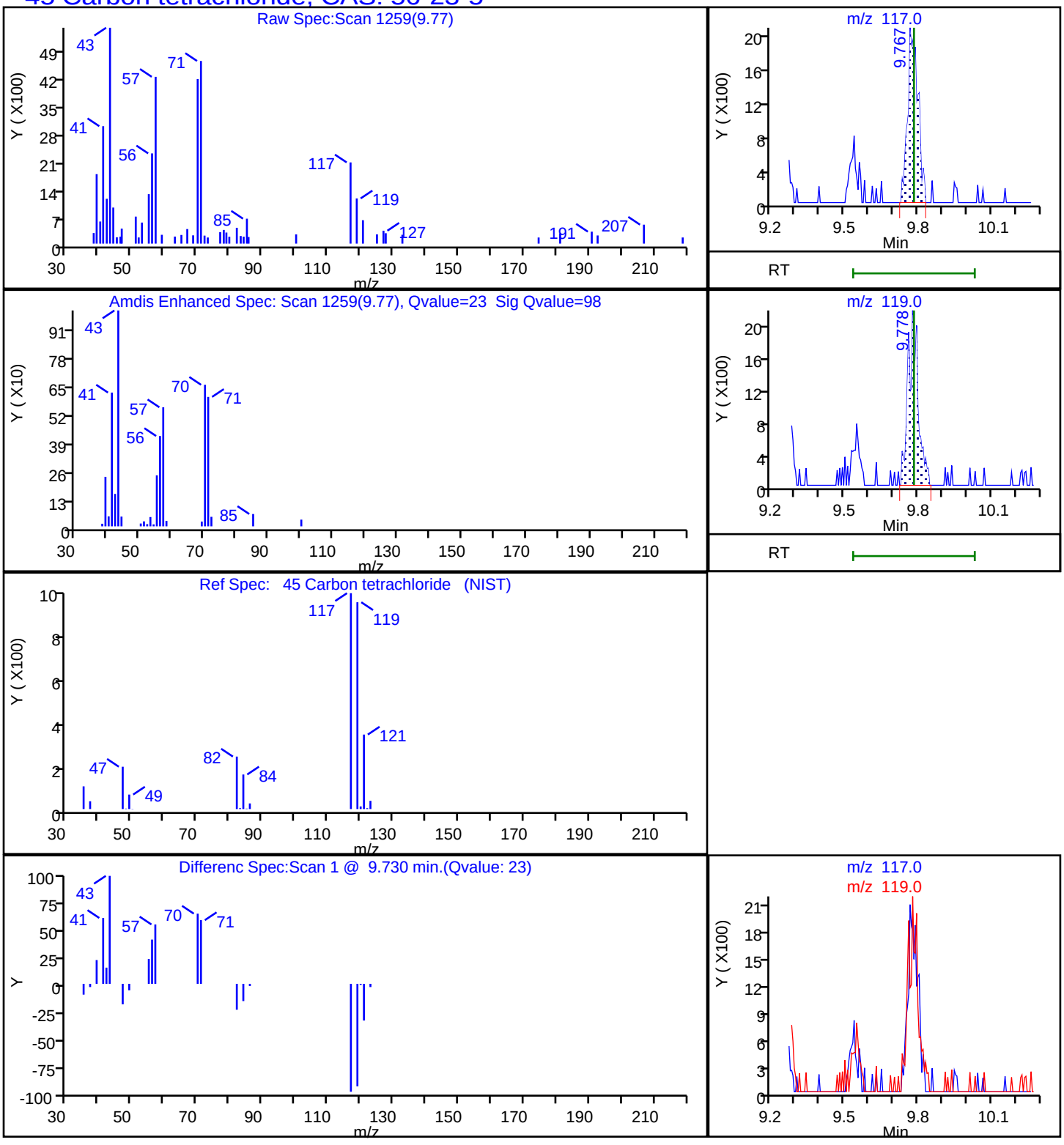
Report Date: 07-Dec-2018 09:46:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 45 Carbon tetrachloride, CAS: 56-23-5



Report Date: 07-Dec-2018 09:46:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
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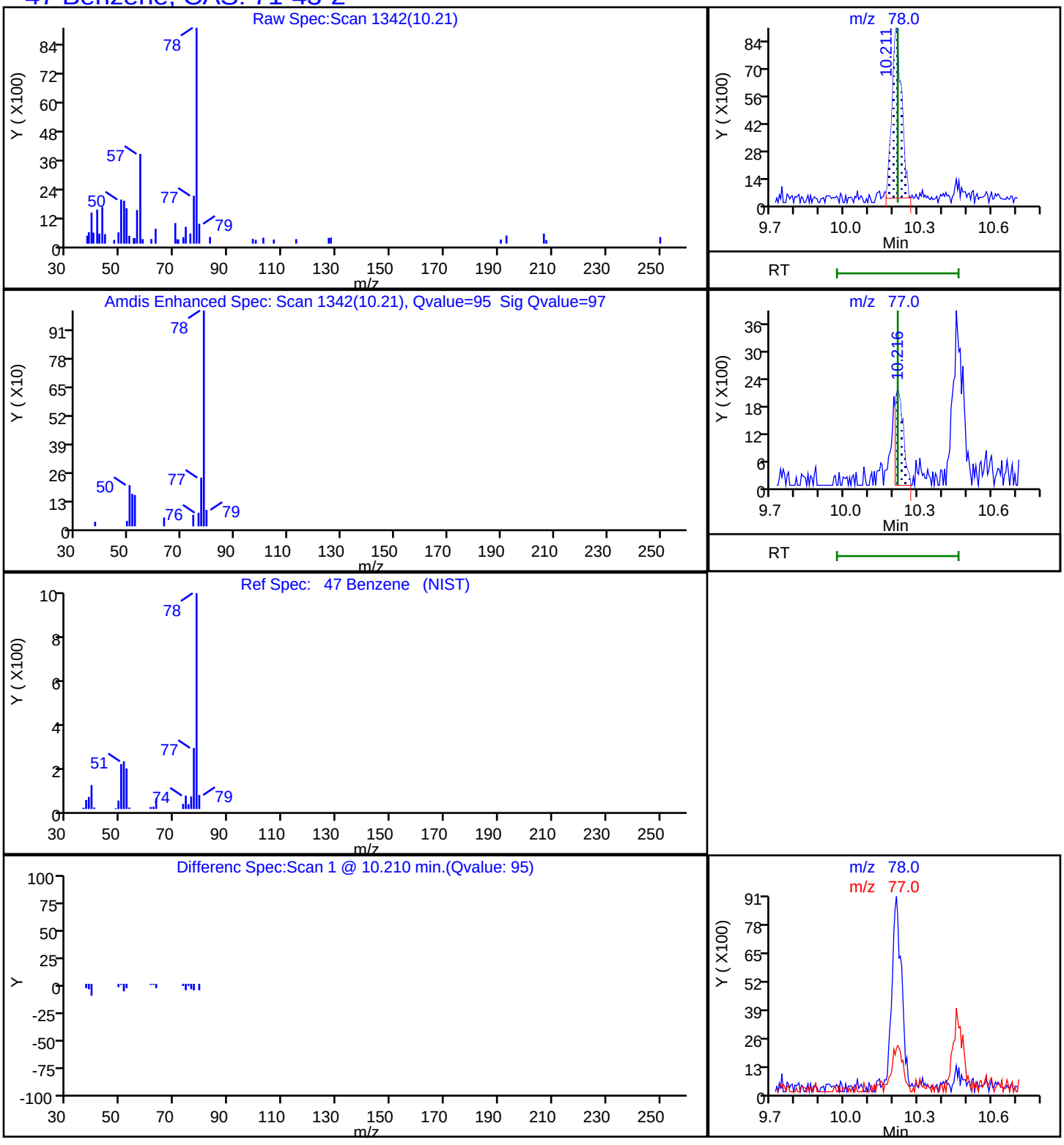
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



Report Date: 07-Dec-2018 09:46:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
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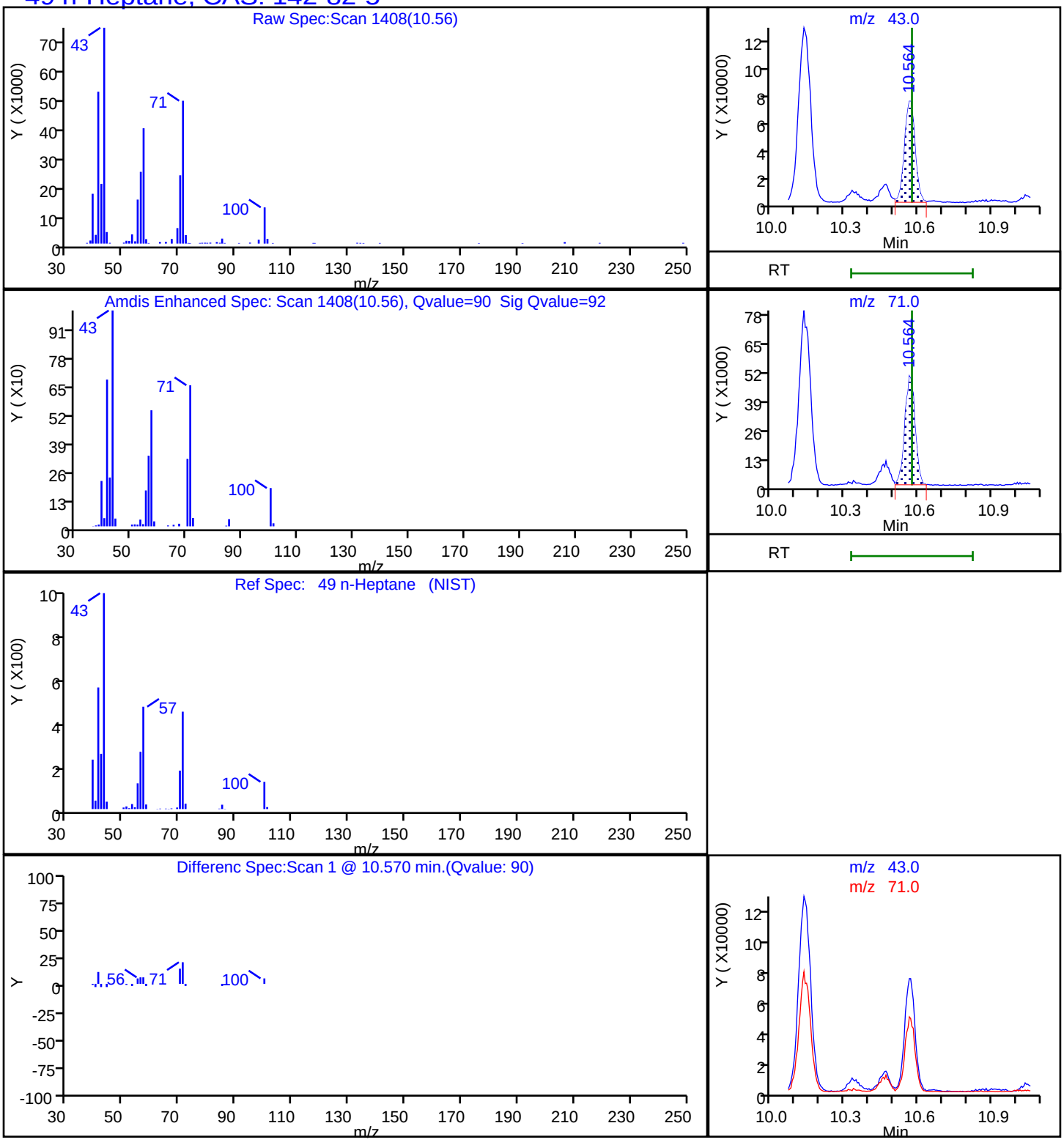
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



Report Date: 07-Dec-2018 09:46:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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| | | | | | |
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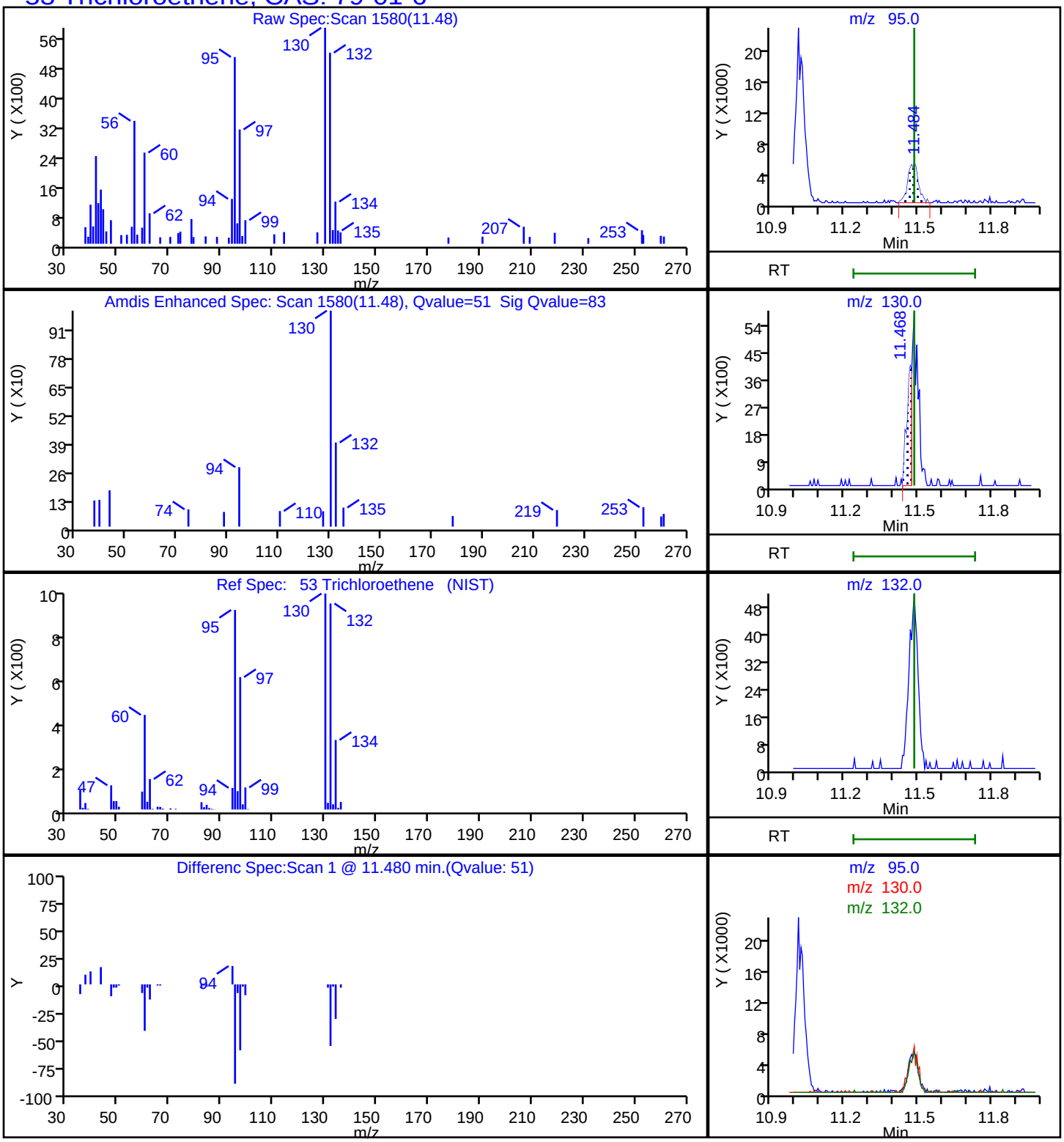
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6



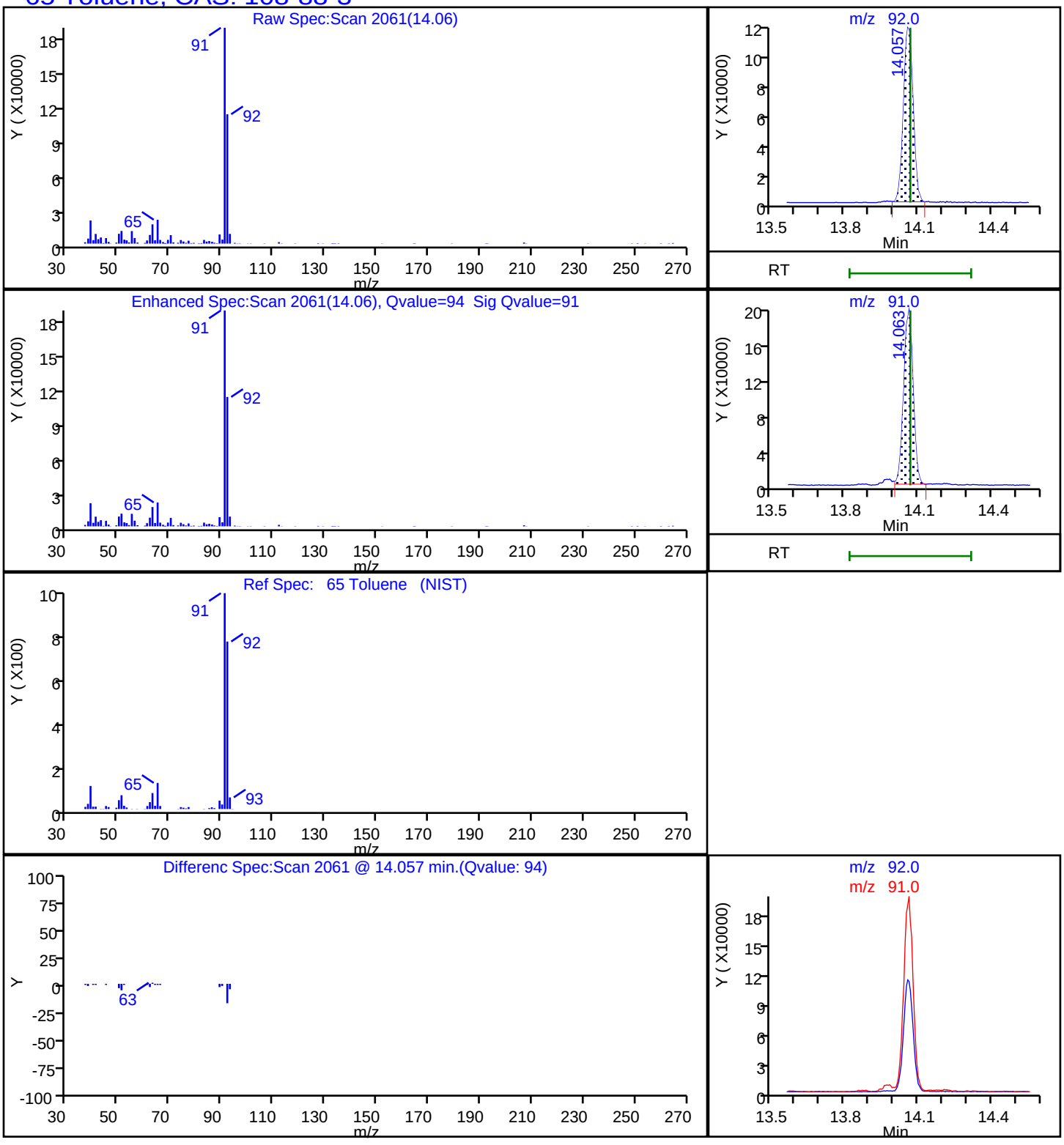
Report Date: 07-Dec-2018 09:46:09 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



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TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

| | | | |
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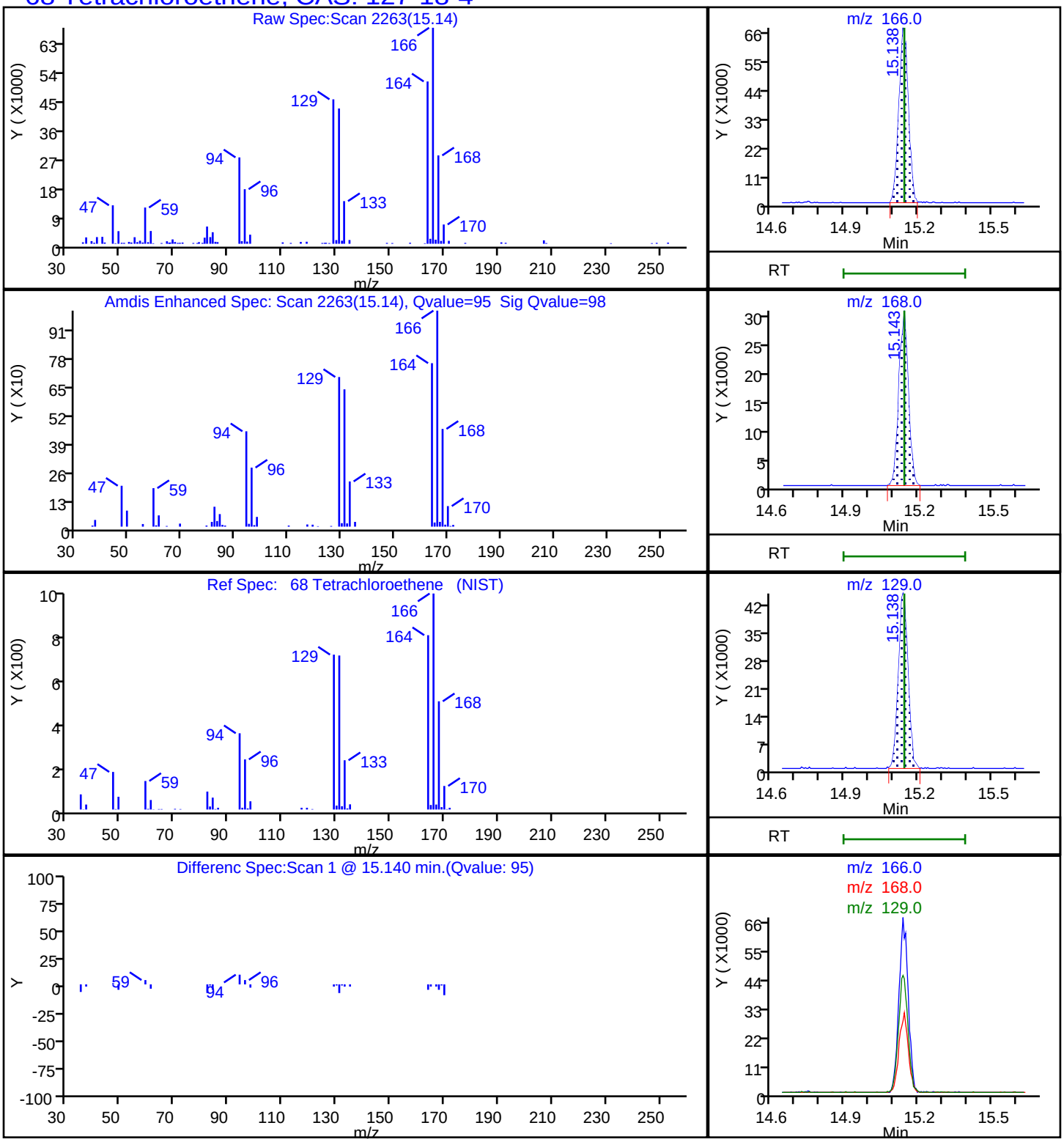
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 |
| Client ID: | MP-3_20181120 | | |
| Operator ID: | ert | ALS Bottle#: | 25 Worklist Smp#: 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN |

## 68 Tetrachloroethene, CAS: 127-18-4



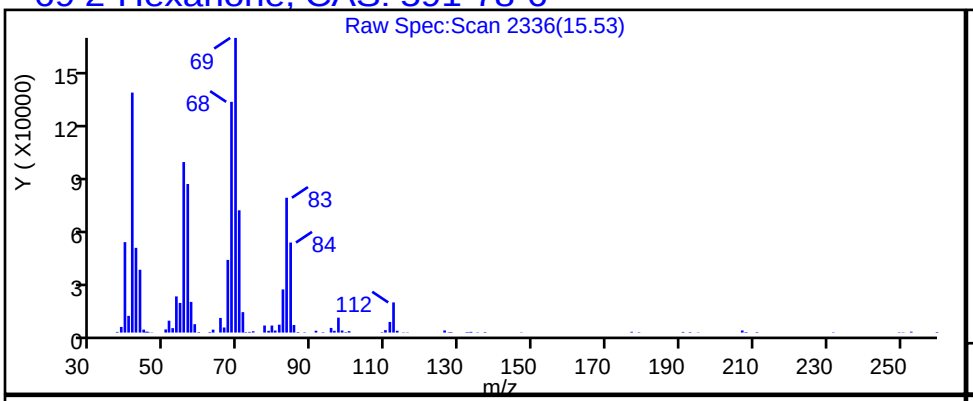
Report Date: 07-Dec-2018 09:46:09 Chrom Revision: 2.3 21-Nov-2018 13:56:44

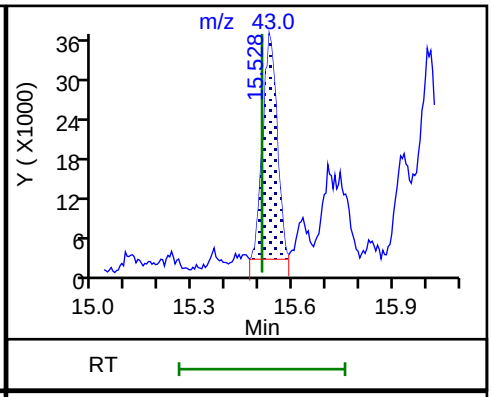
TestAmerica Burlington

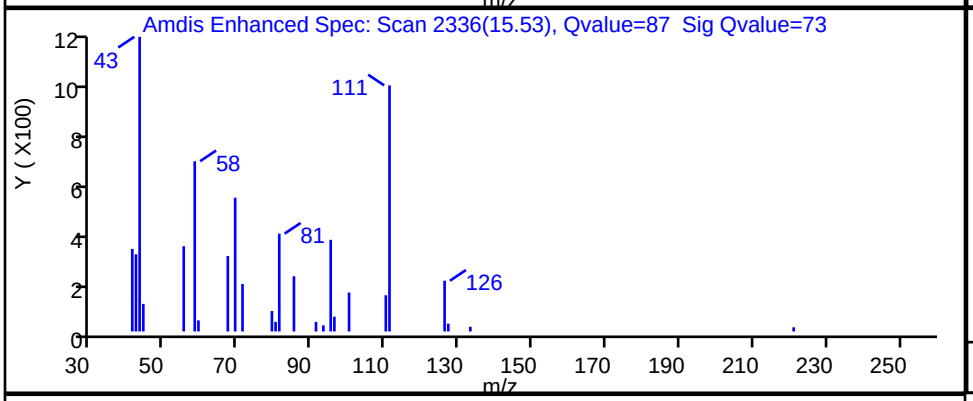
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

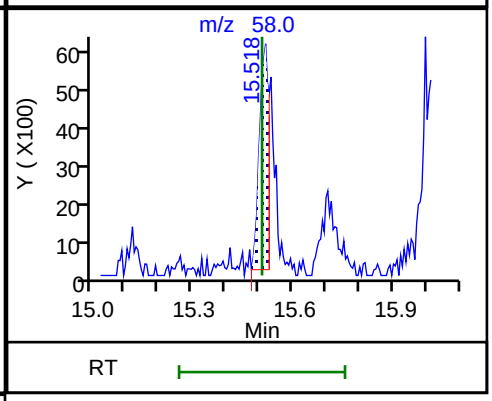
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

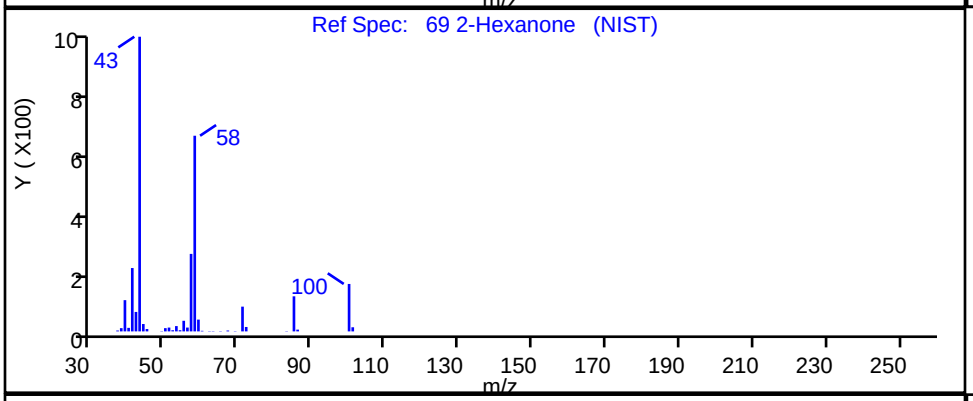
## 69 2-Hexanone, CAS: 591-78-6

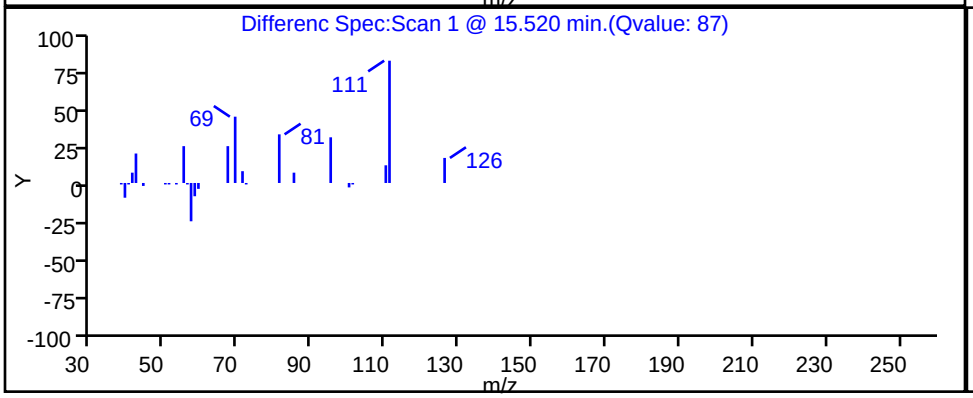


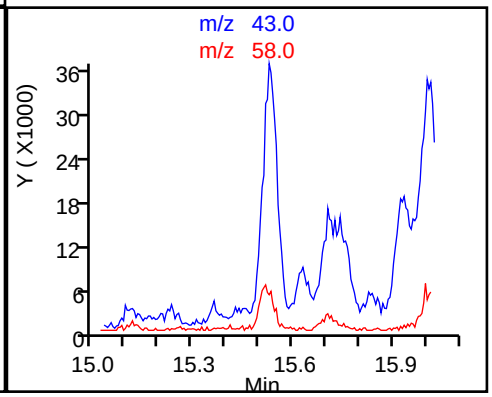



Report Date: 07-Dec-2018 09:46:09 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

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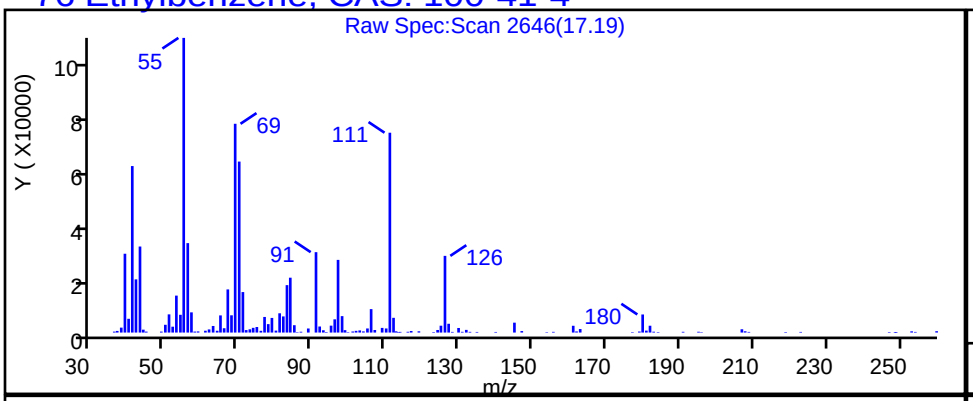
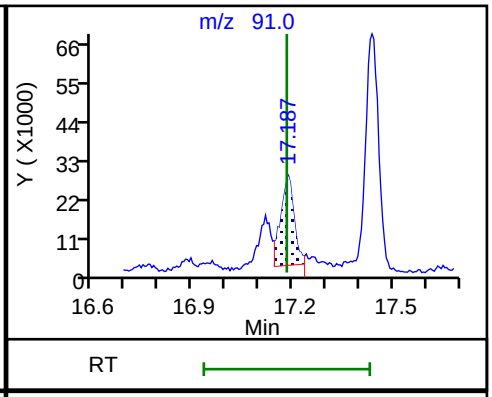
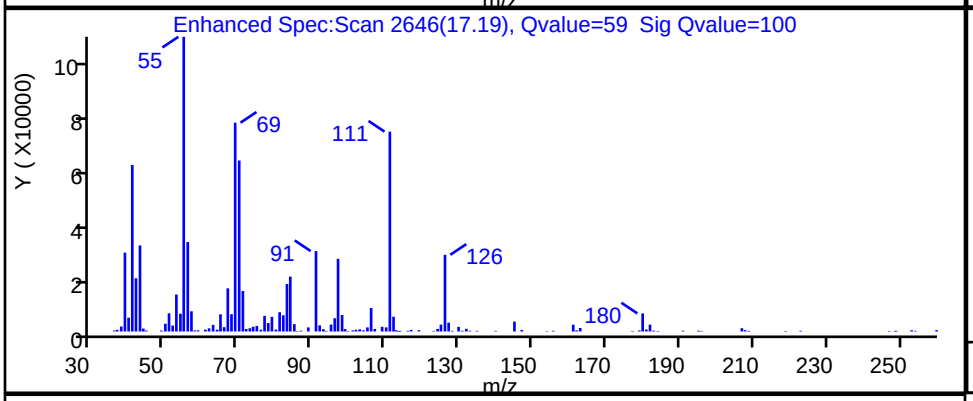
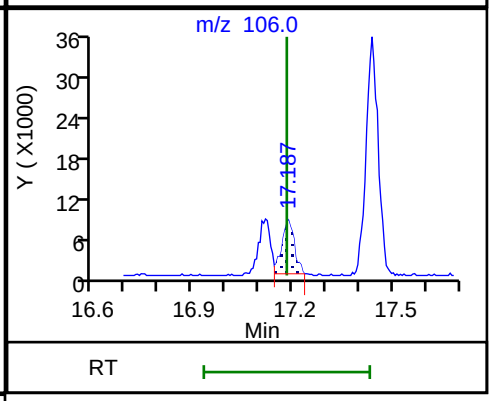
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

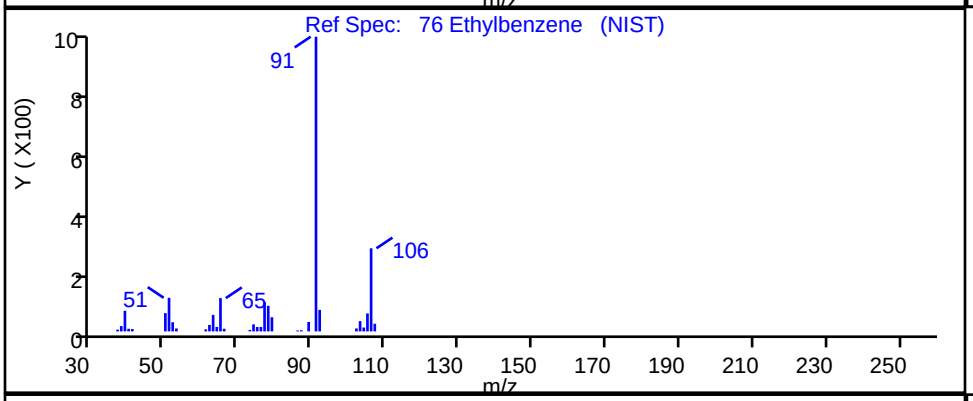
## 76 Ethylbenzene, CAS: 100-41-4

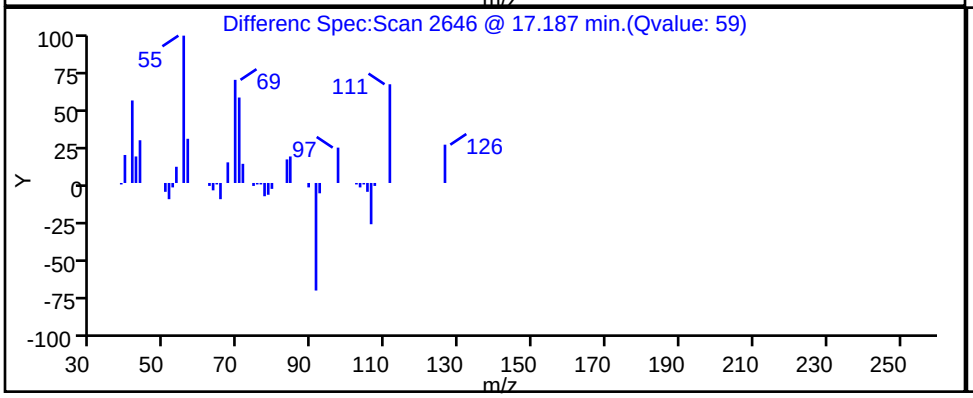


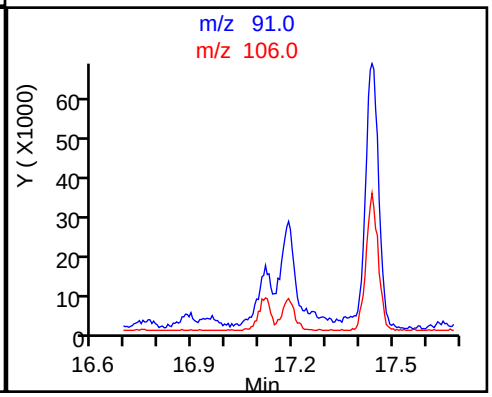



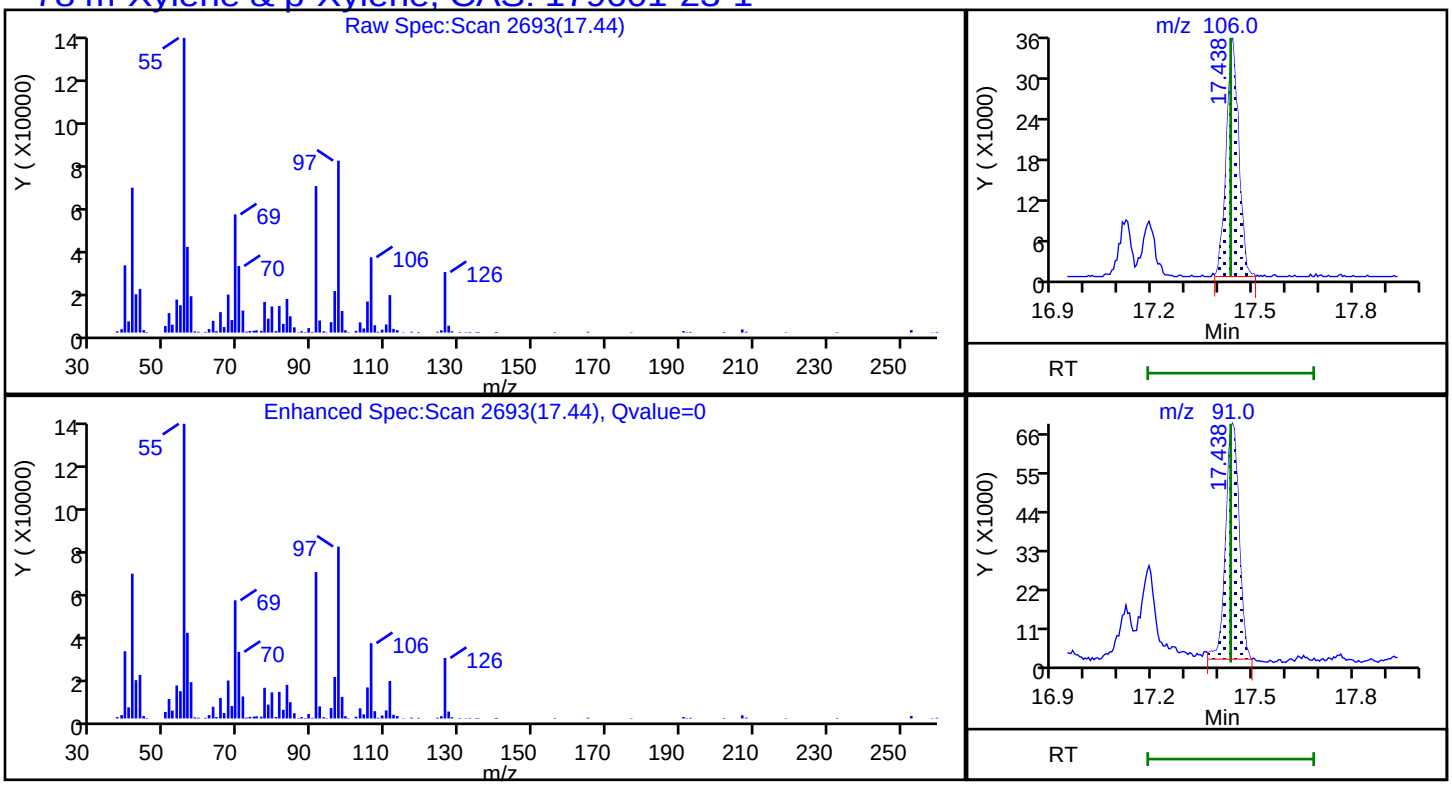



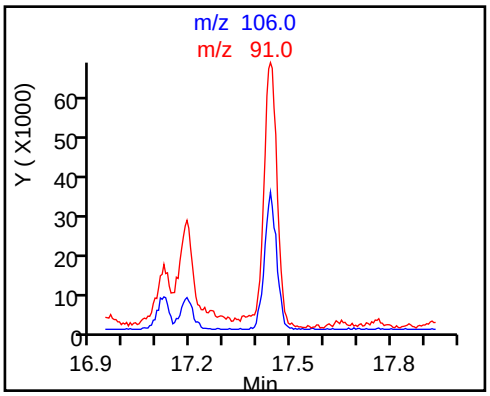
Report Date: 07-Dec-2018 09:46:09 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



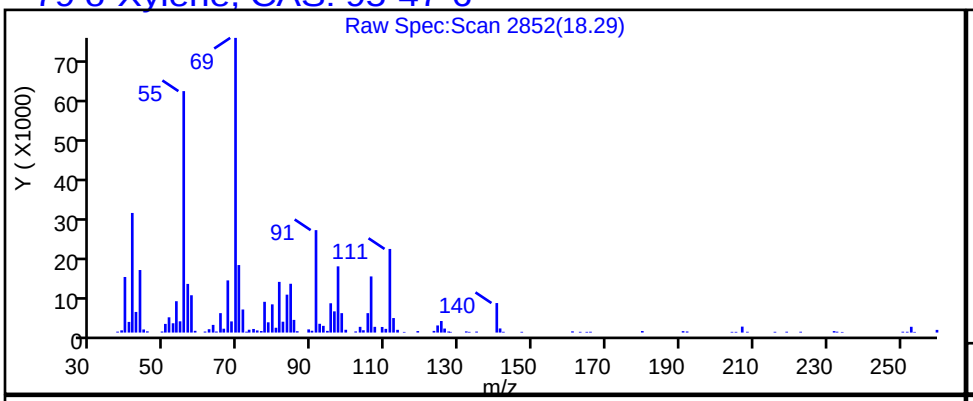
Report Date: 07-Dec-2018 09:46:09 Chrom Revision: 2.3 21-Nov-2018 13:56:44

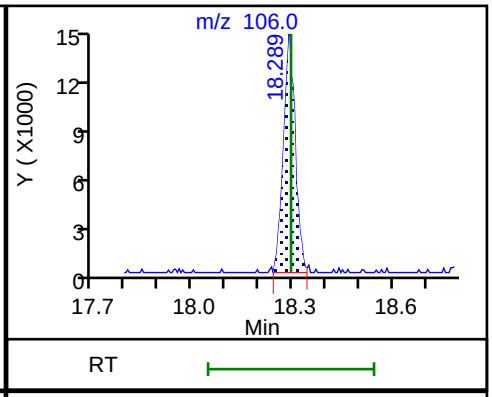
TestAmerica Burlington

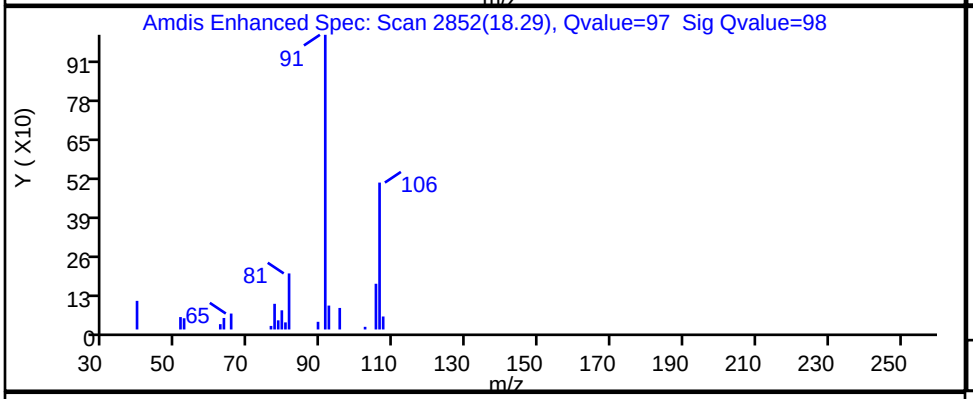
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

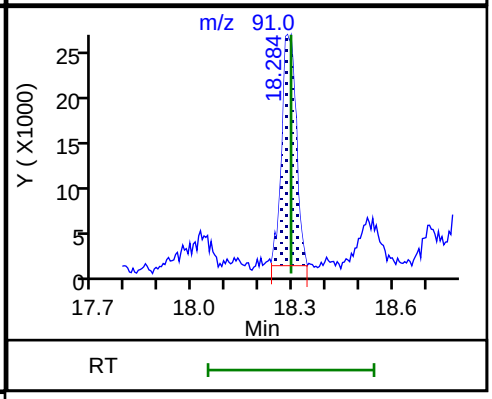
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

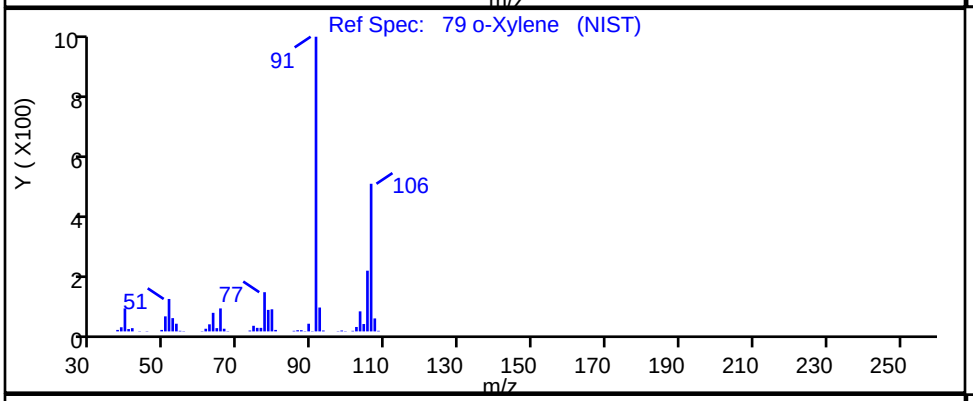
## 79 o-Xylene, CAS: 95-47-6

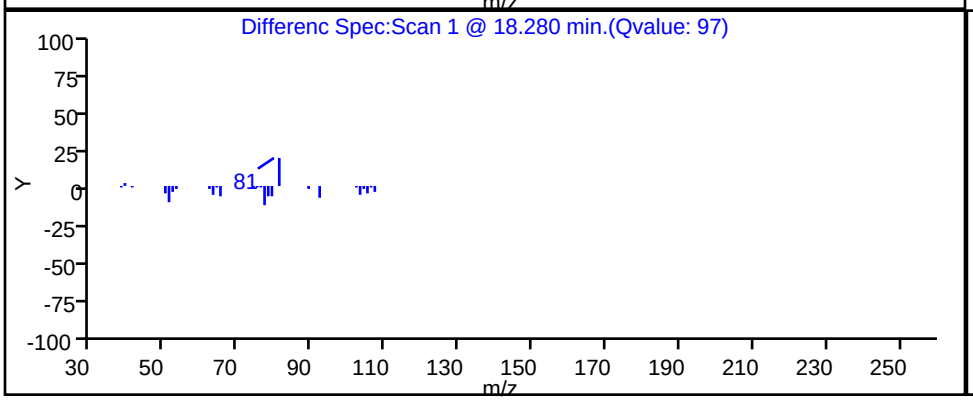


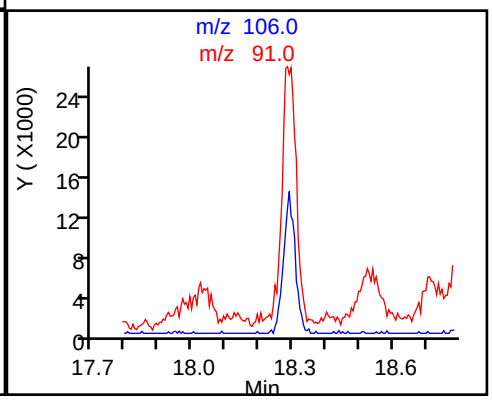



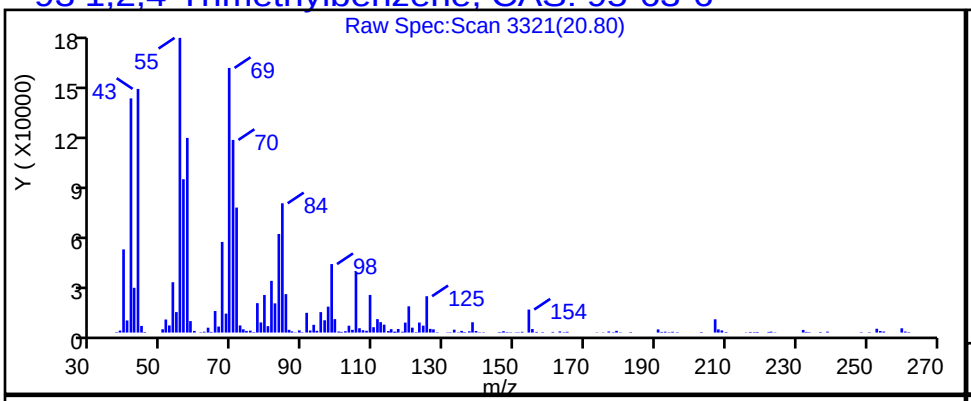
Report Date: 07-Dec-2018 09:46:09 Chrom Revision: 2.3 21-Nov-2018 13:56:44

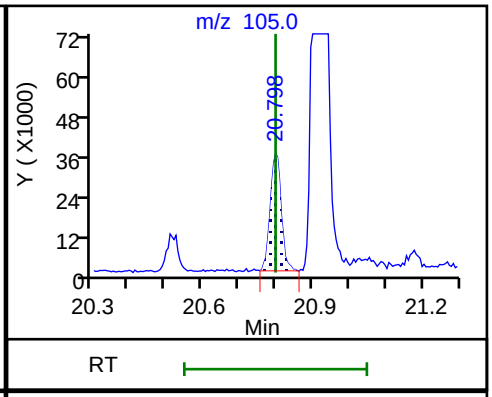
TestAmerica Burlington

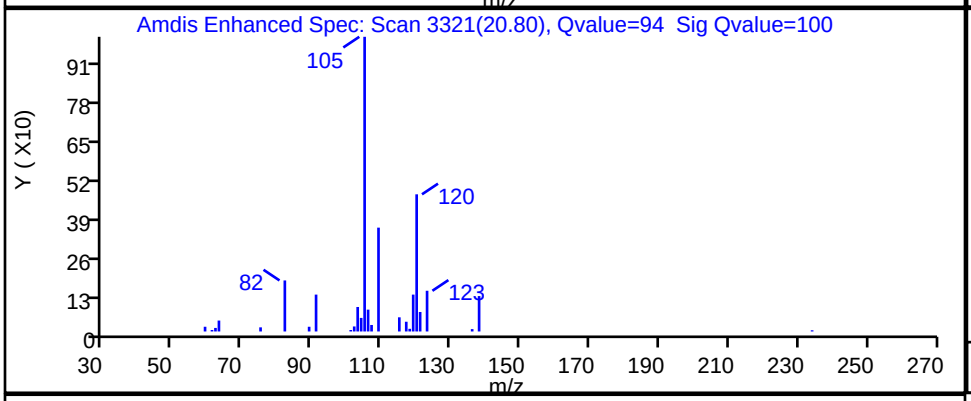
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

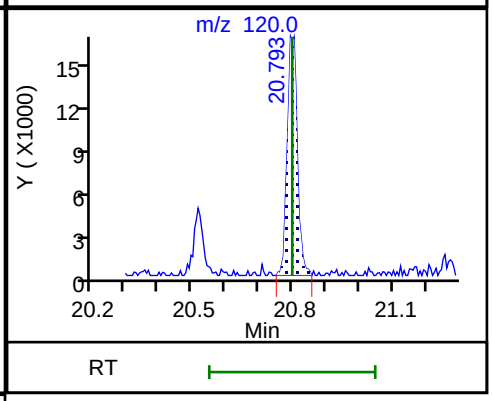
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

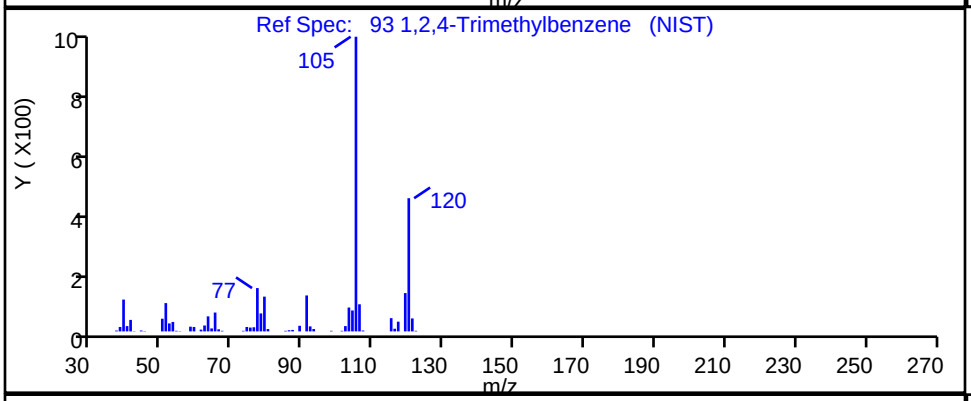
## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

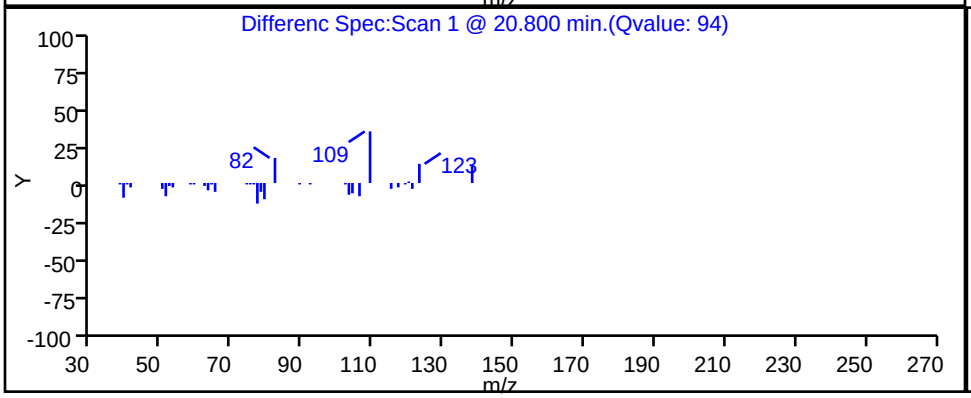


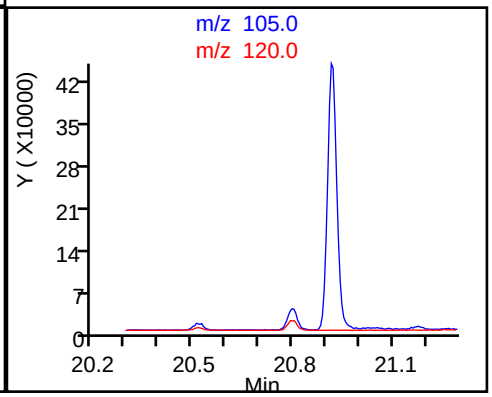



Manual Integration/User Assign Peak Report

TestAmerica Burlington

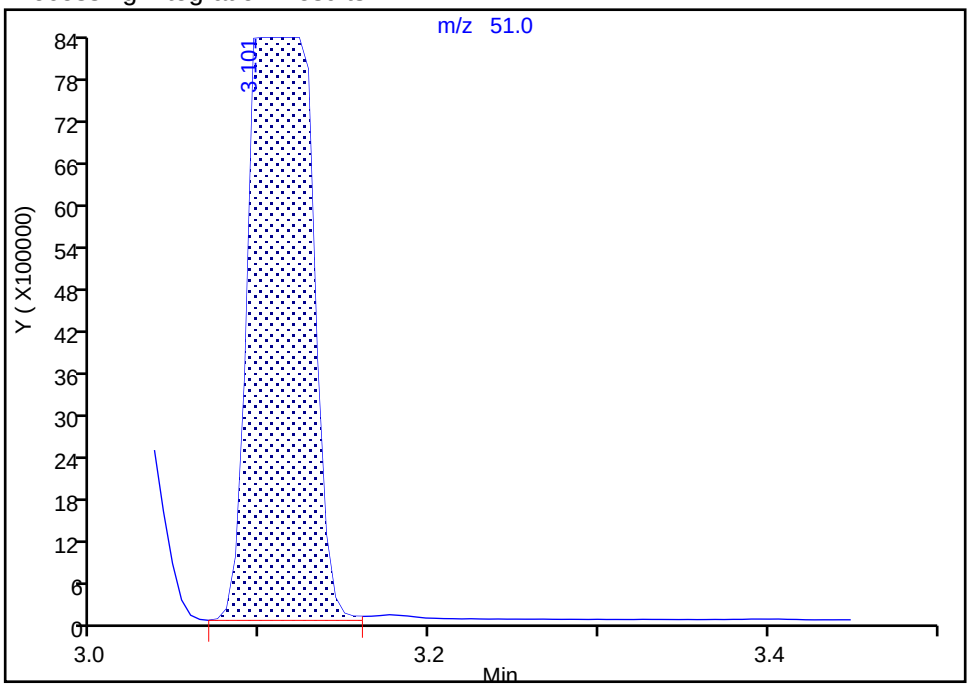
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

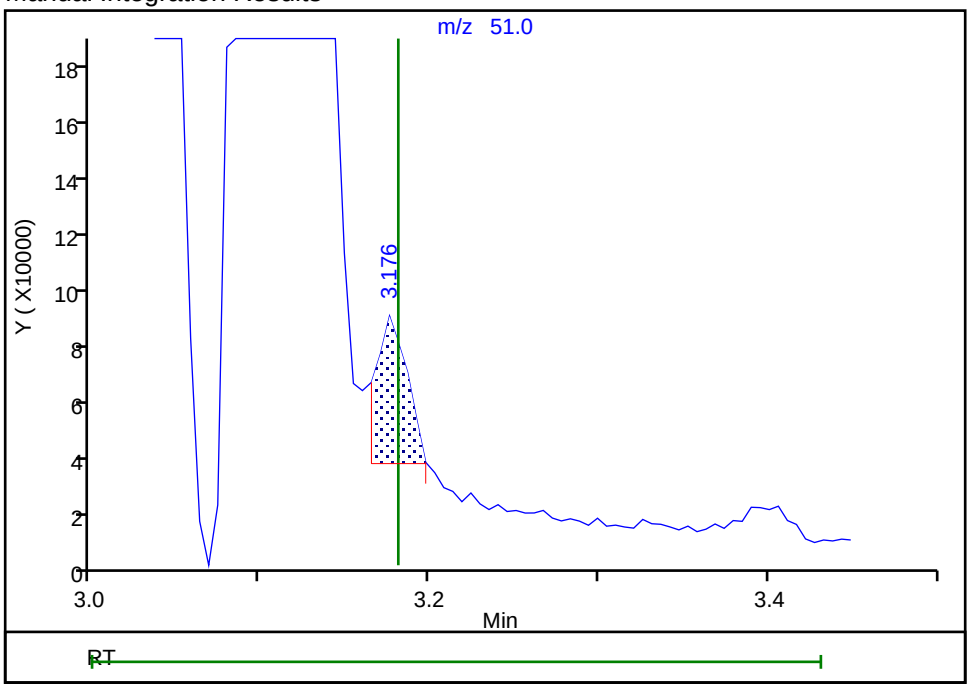
Processing Integration Results

RT: 3.10
Area: 21950152
Amount: 266.4273
Amount Units: ppb v/v




Manual Integration Results

RT: 3.18
Area: 62571
Amount: 0.759476
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:39:37

Audit Action: Manually Integrated Audit Reason: Assign Peak

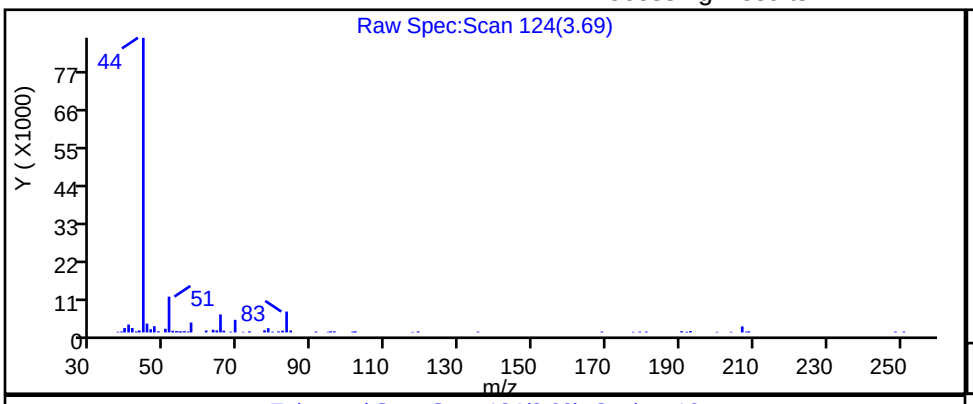
User Disabled Compound Report

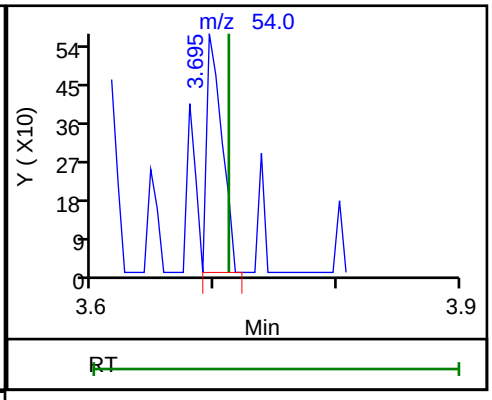
TestAmerica Burlington

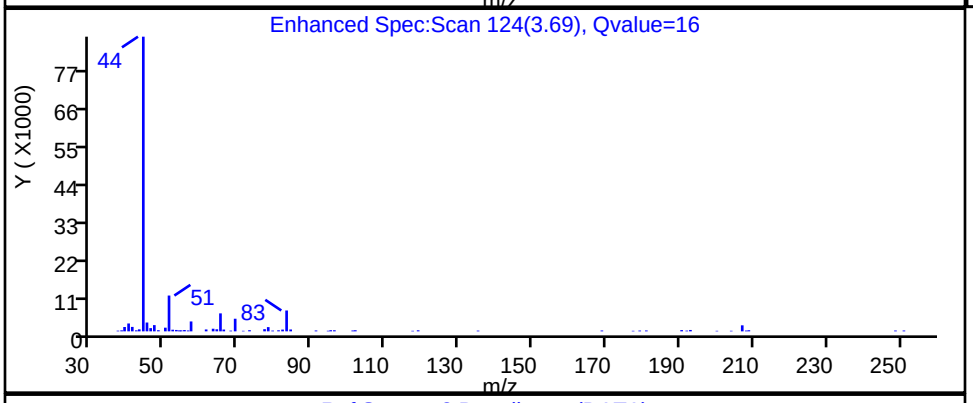
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

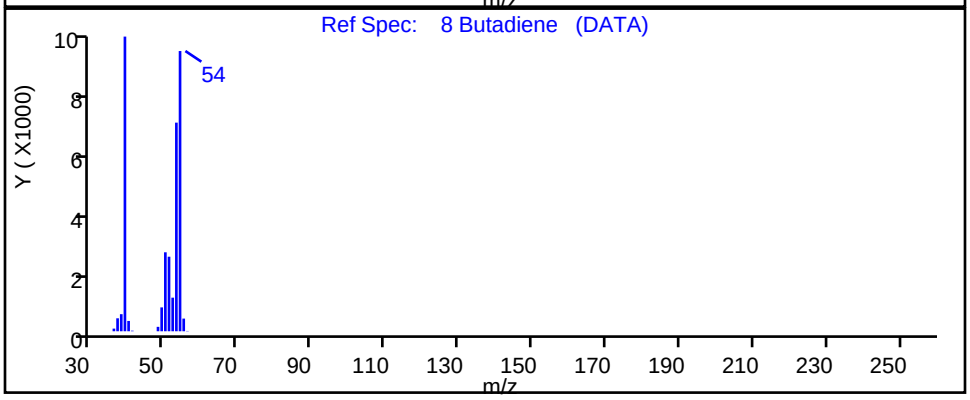
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.69 | 54.00 | 485 | 0.017197 |

Reviewer: guazzonig, 06-Dec-2018 13:44:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

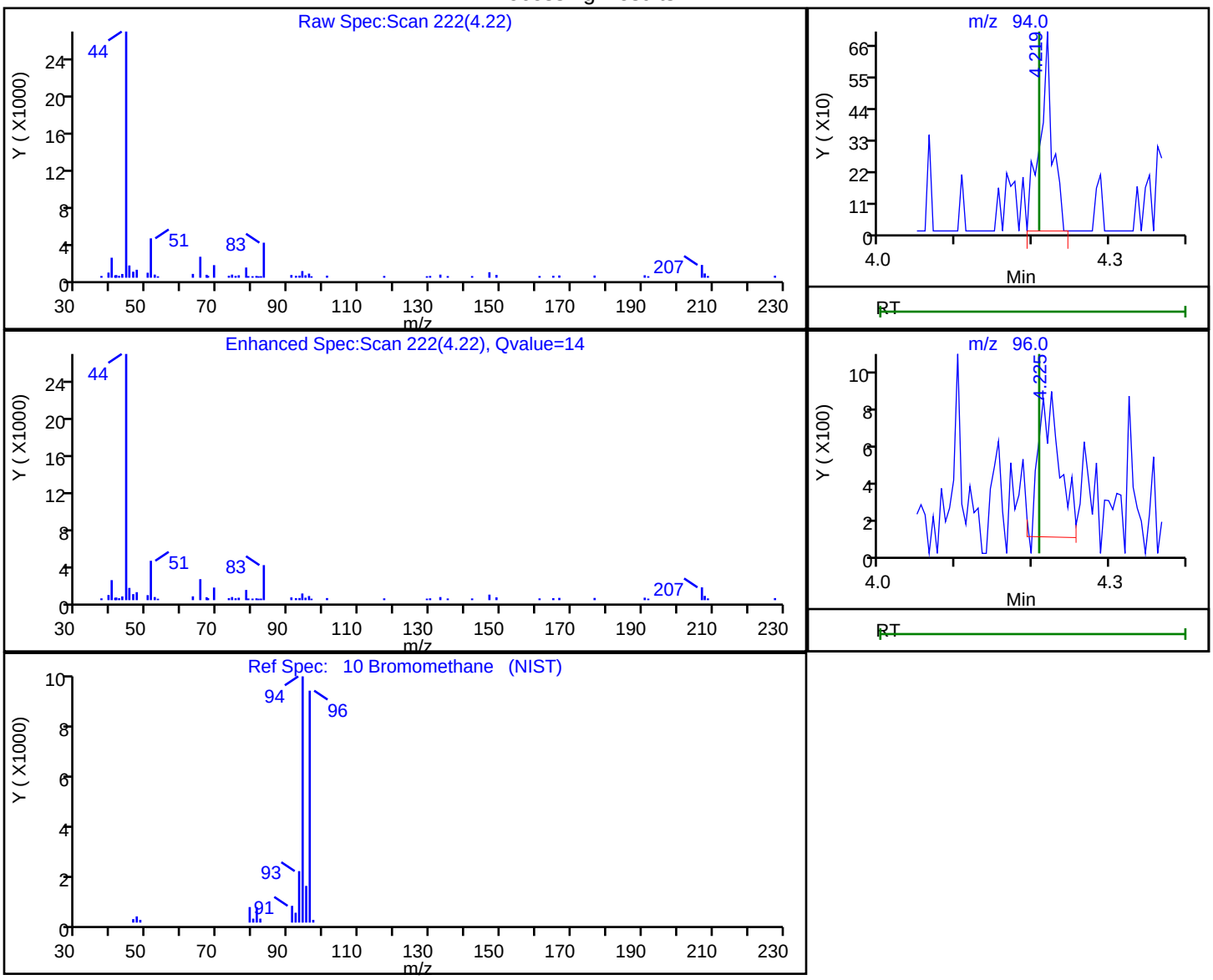
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 10 Bromomethane, CAS: 74-83-9

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.22 | 94.00 | 805 | 0.015381 |
| 4.22 | 96.00 | 1497 | |

Reviewer: guazzonig, 06-Dec-2018 13:44:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

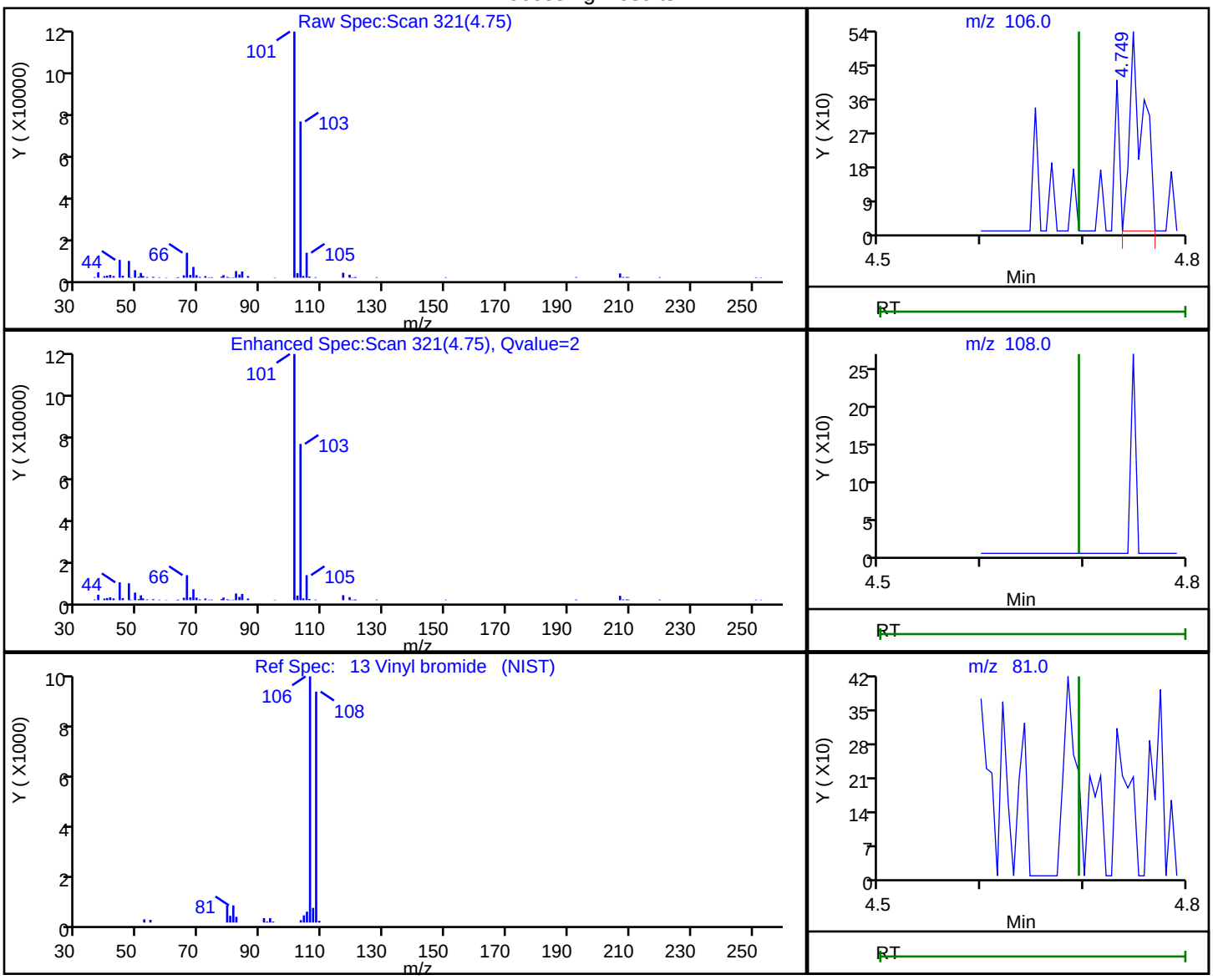
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.75 | 106.00 | 504 | 0.009740 |
| 4.70 | 108.00 | 0 | |
| 4.70 | 81.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:44:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

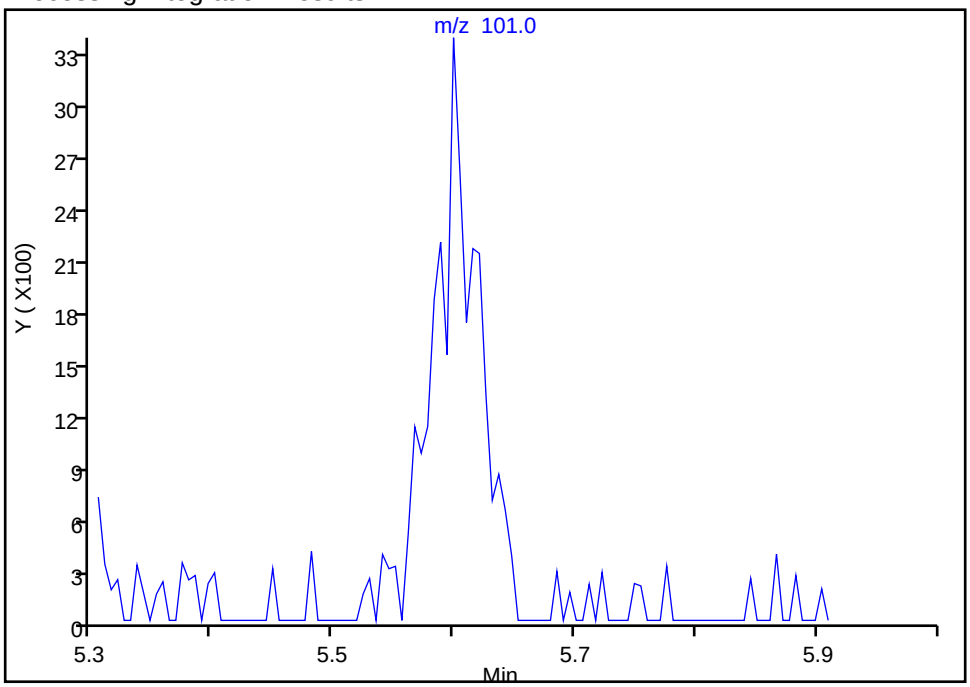
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

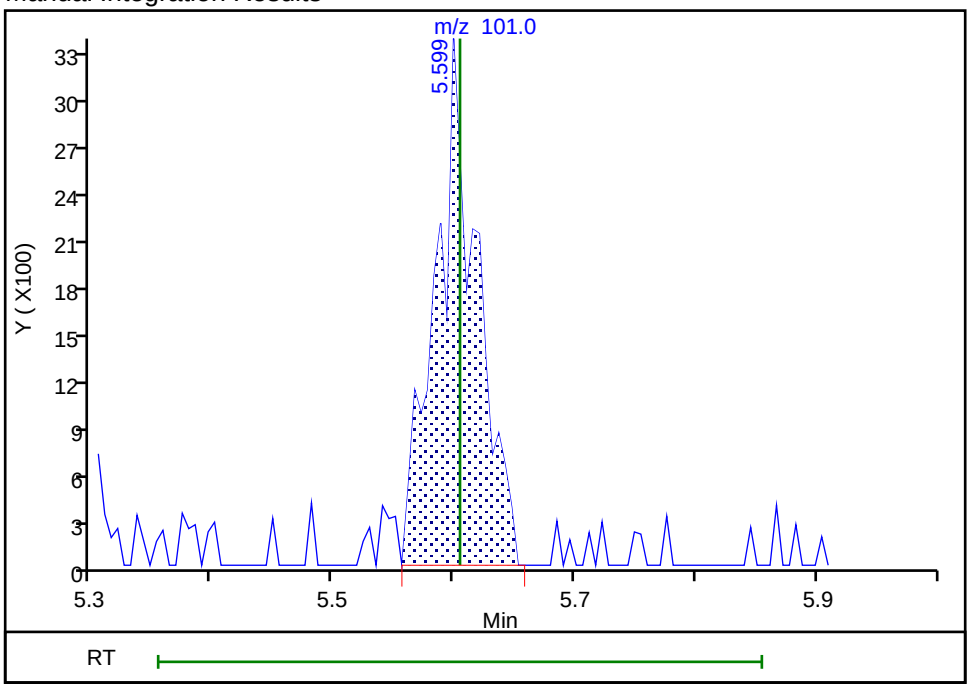
Not Detected
Expected RT: 5.60

Processing Integration Results




Manual Integration Results

RT: 5.60
Area: 8013
Amount: 0.074379
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:44:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

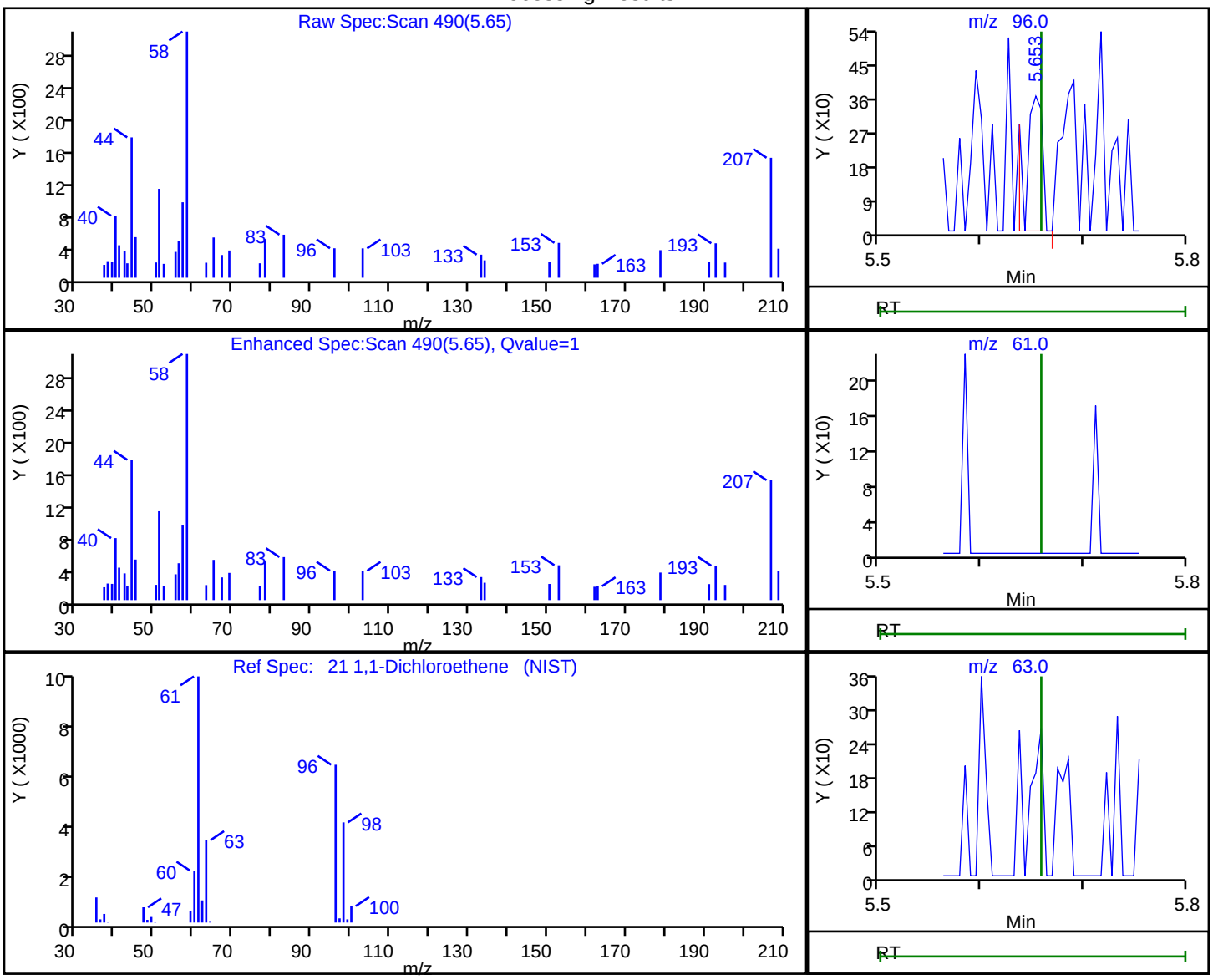
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.65 | 96.00 | 410 | 0.008646 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:40:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

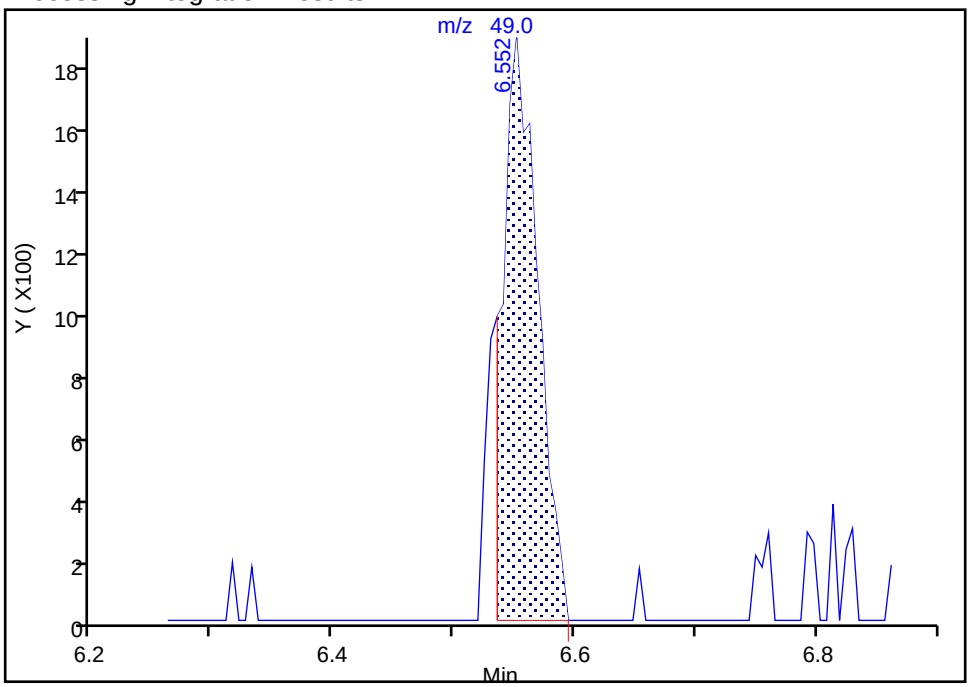
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

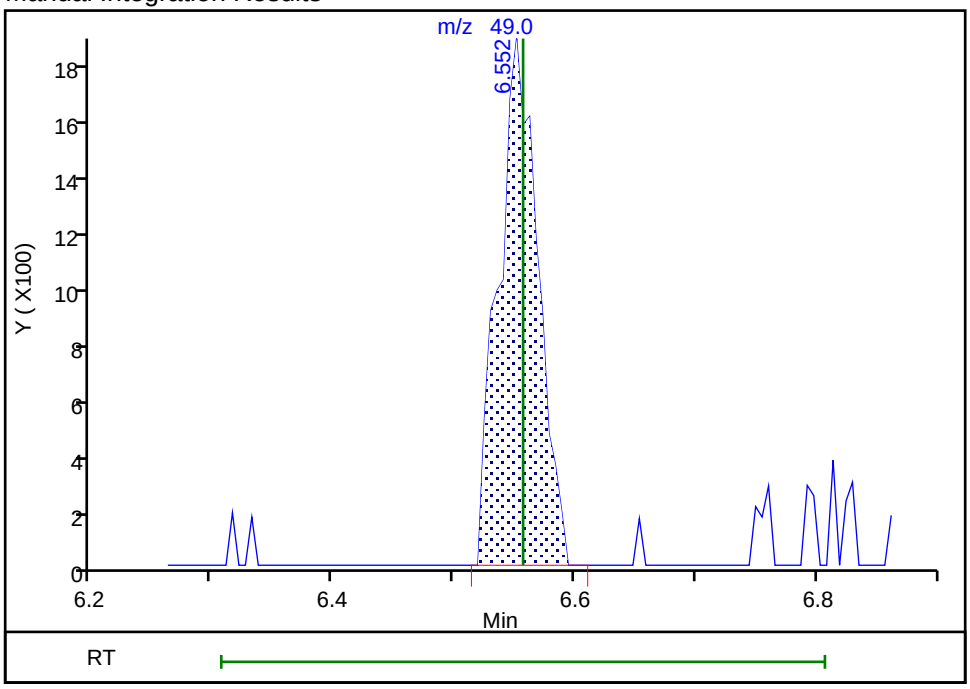
Processing Integration Results

RT: 6.55
Area: 3657
Amount: 0.085449
Amount Units: ppb v/v




Manual Integration Results

RT: 6.55
Area: 4098
Amount: 0.095753
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:44:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

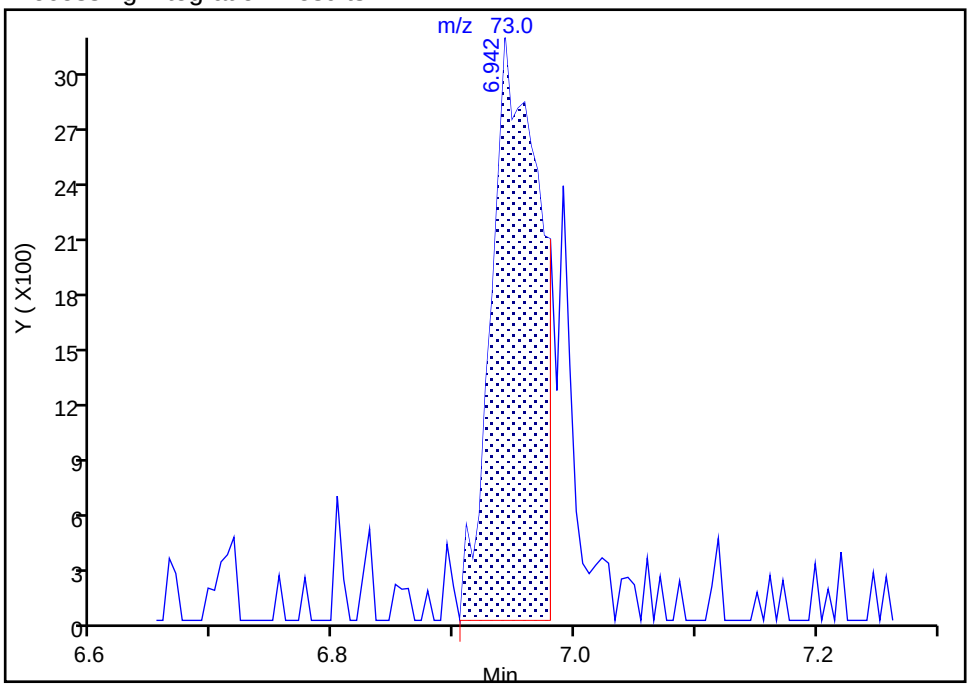
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 29 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

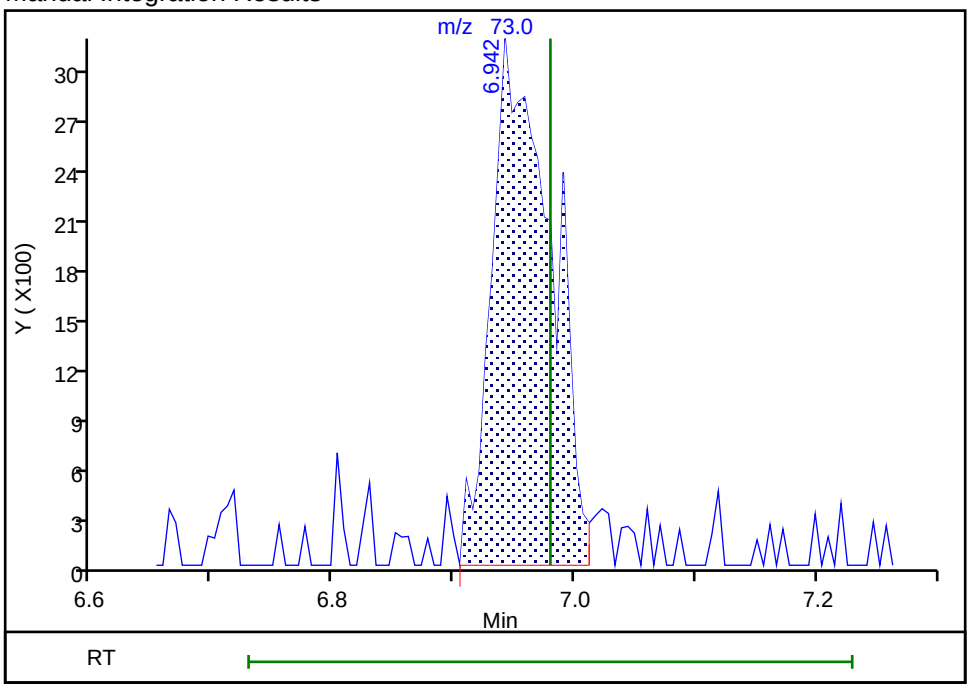
Processing Integration Results

RT: 6.94
Area: 8783
Amount: 0.095269
Amount Units: ppb v/v




Manual Integration Results

RT: 6.94
Area: 10744
Amount: 0.116540
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:41:09

Audit Action: Manually Integrated Audit Reason: Assign Peak

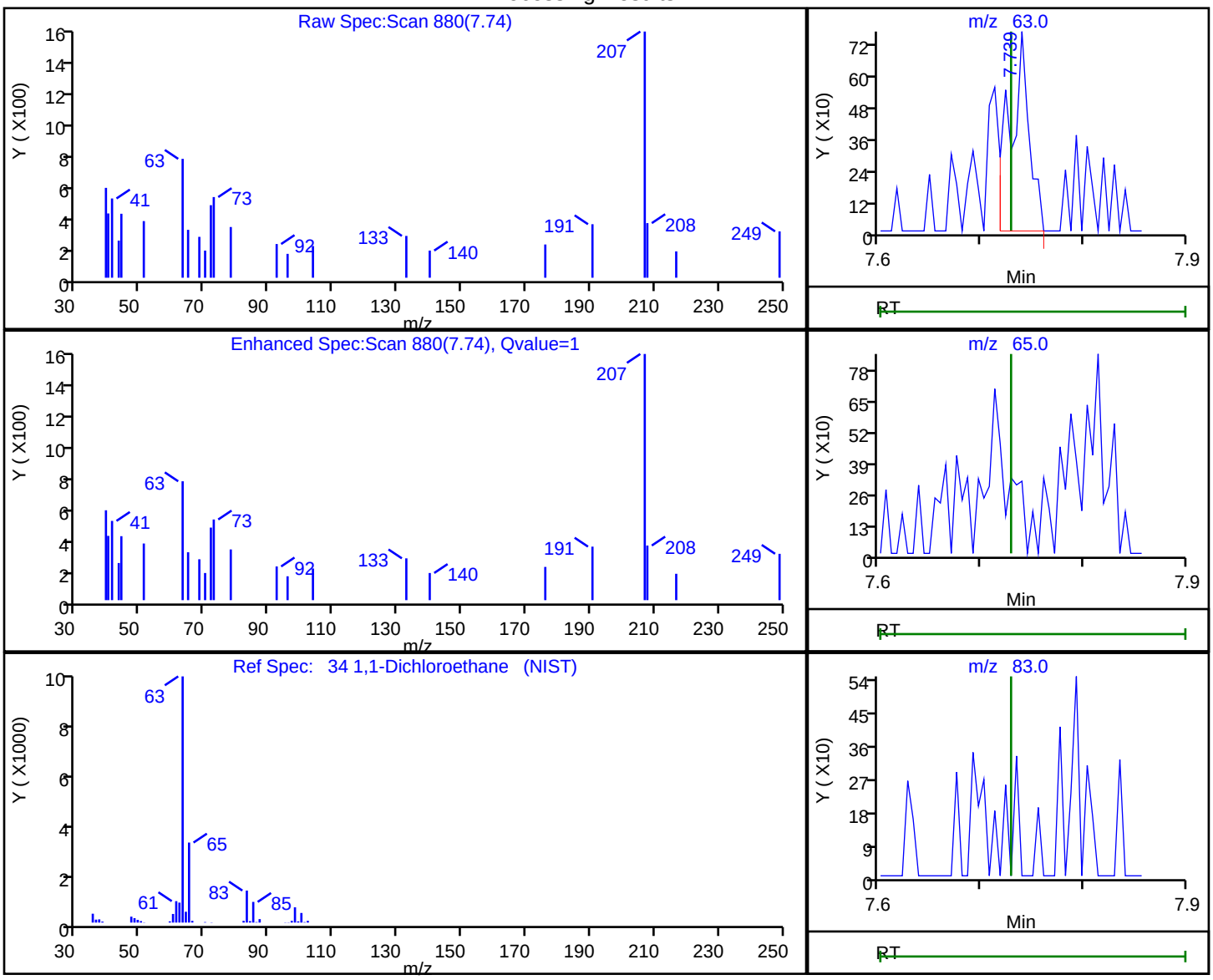
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.74 | 63.00 | 992 | 0.013378 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:41:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

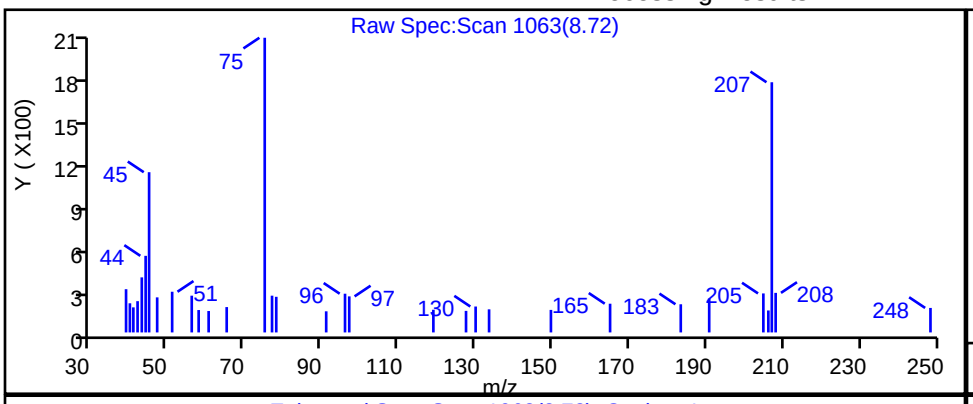
User Disabled Compound Report

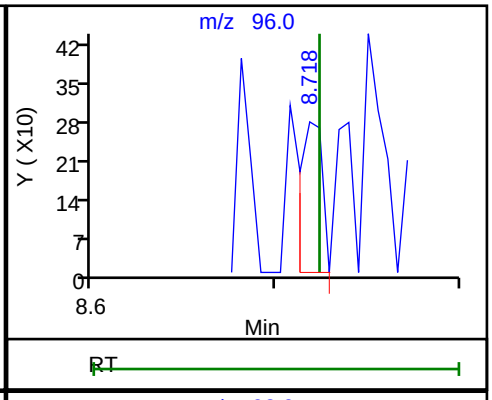
TestAmerica Burlington

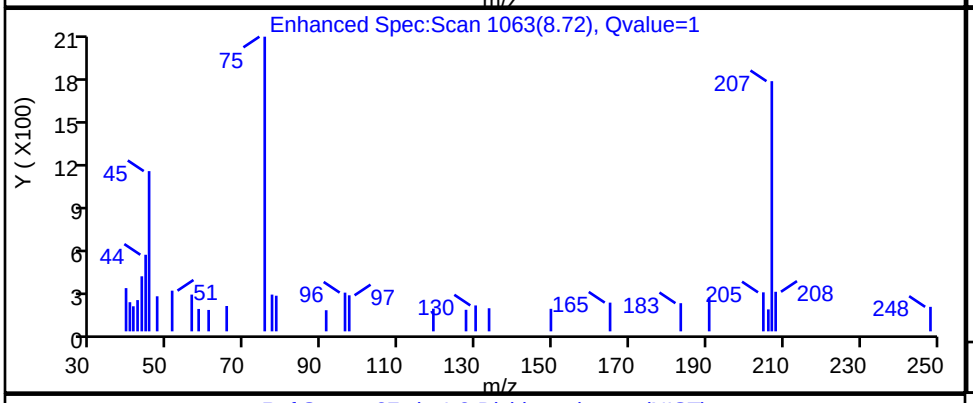
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

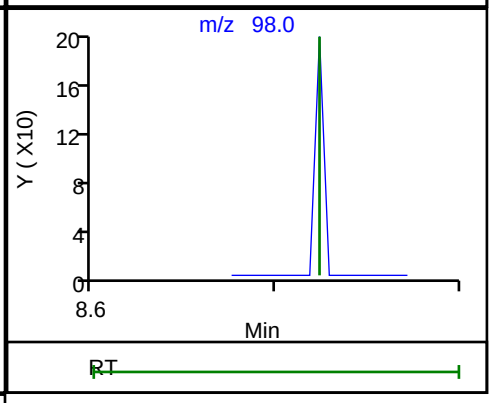
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

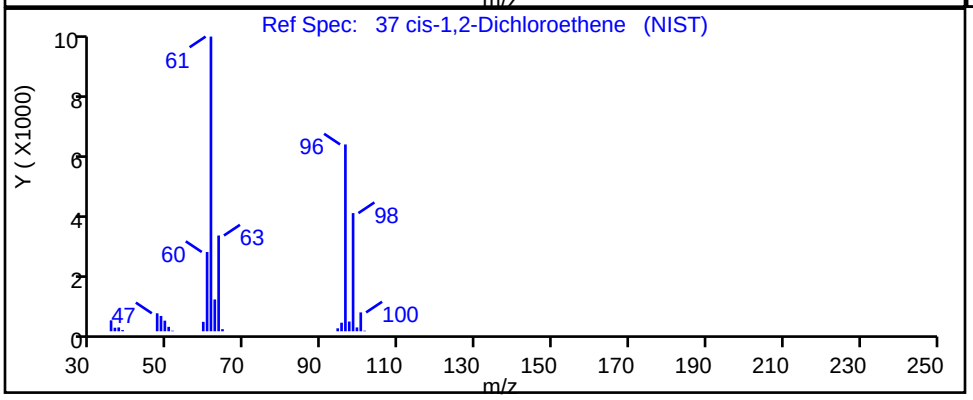
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.72 | 96.00 | 232 | 0.005165 |
| 8.72 | 98.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:45:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

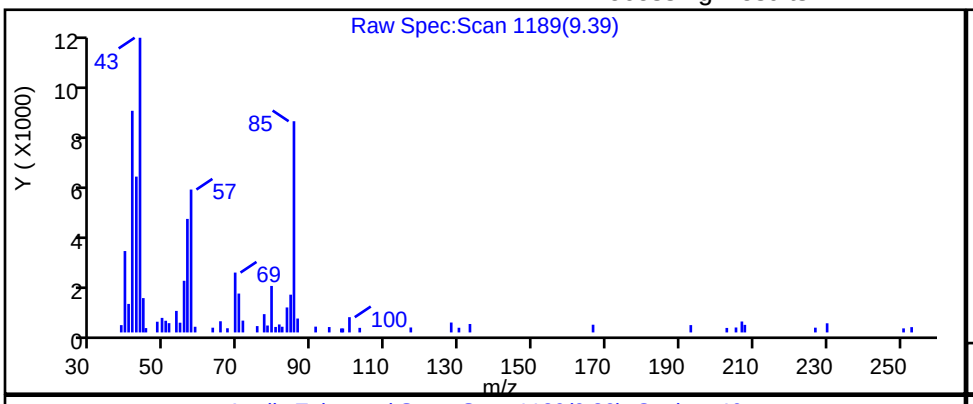
User Disabled Compound Report

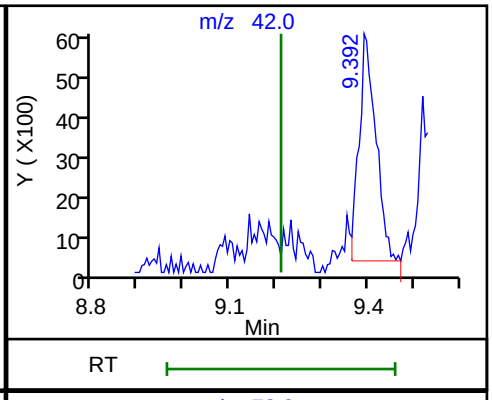
TestAmerica Burlington

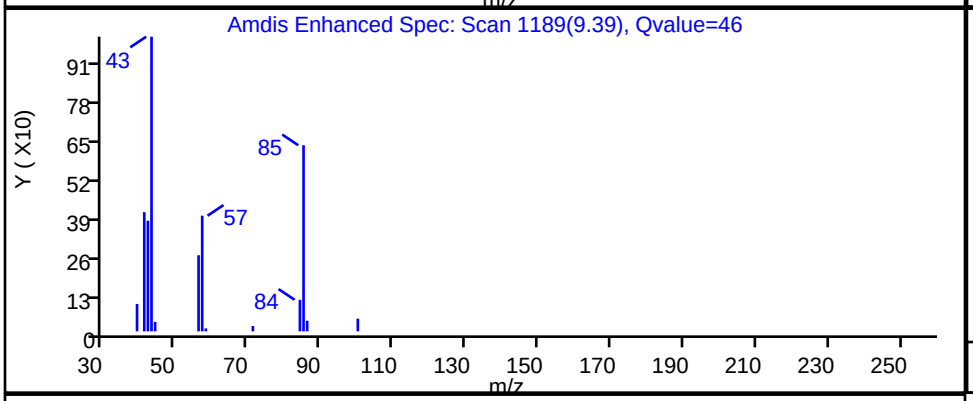
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

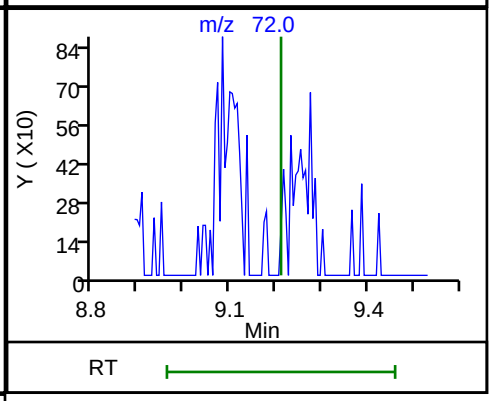
## 41 Tetrahydrofuran, CAS: 109-99-9

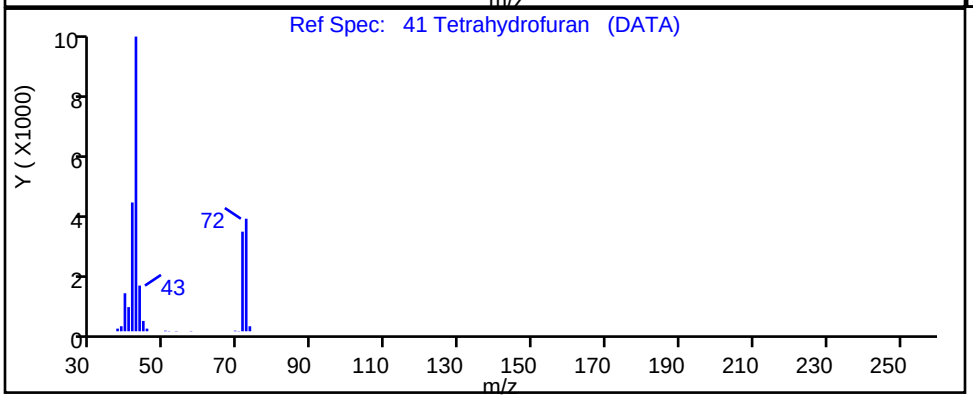
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.39 | 42.00 | 14586 | 0.685918 |
| 9.21 | 72.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:45:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

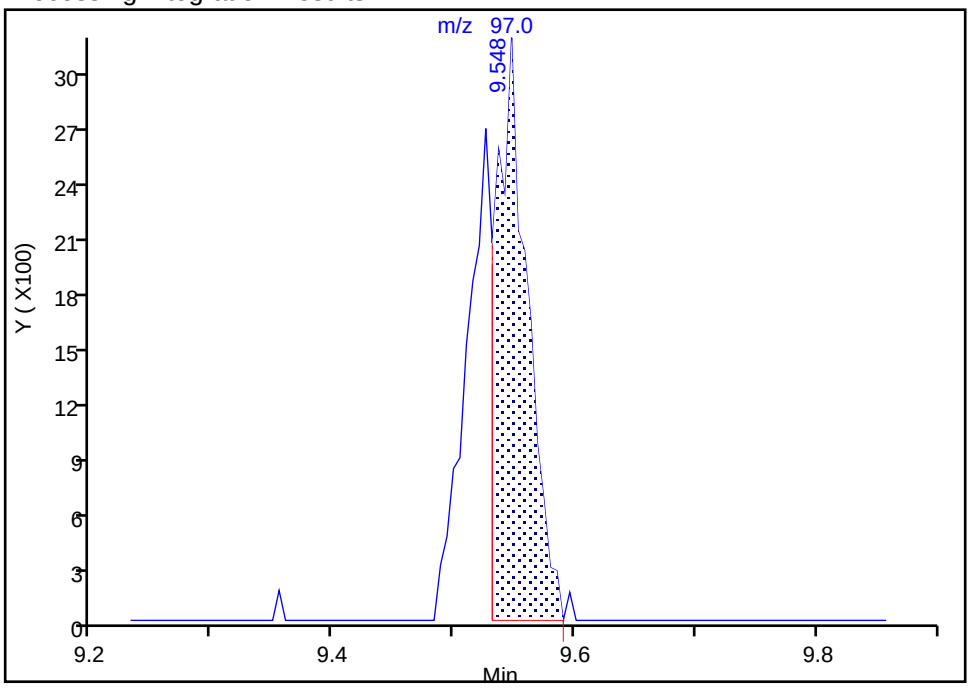
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

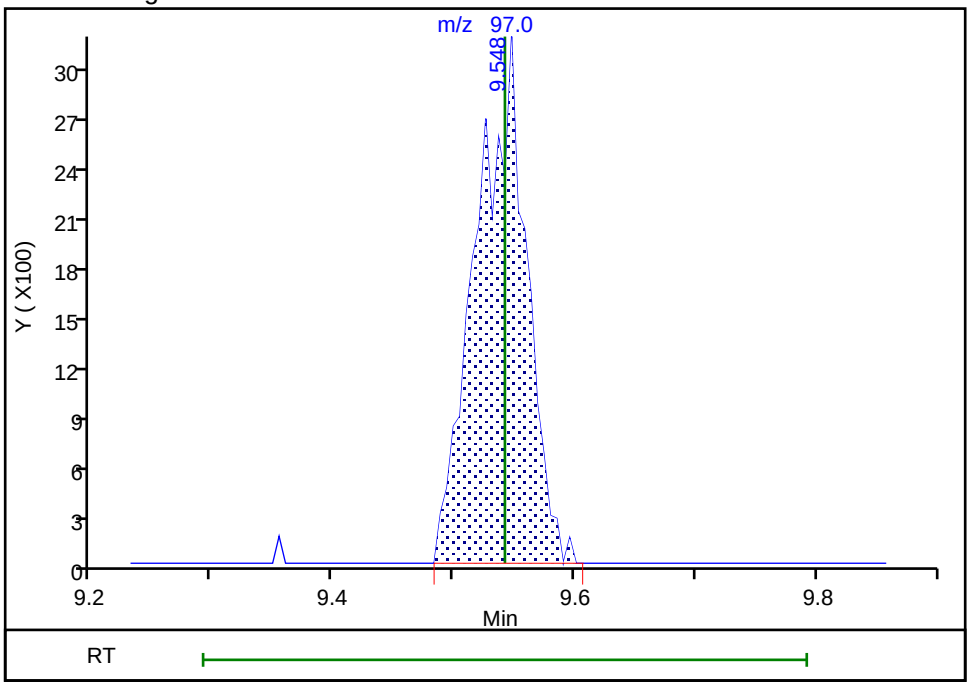
Processing Integration Results

RT: 9.55
Area: 5756
Amount: 0.055575
Amount Units: ppb v/v




Manual Integration Results

RT: 9.55
Area: 9170
Amount: 0.088538
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:45:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

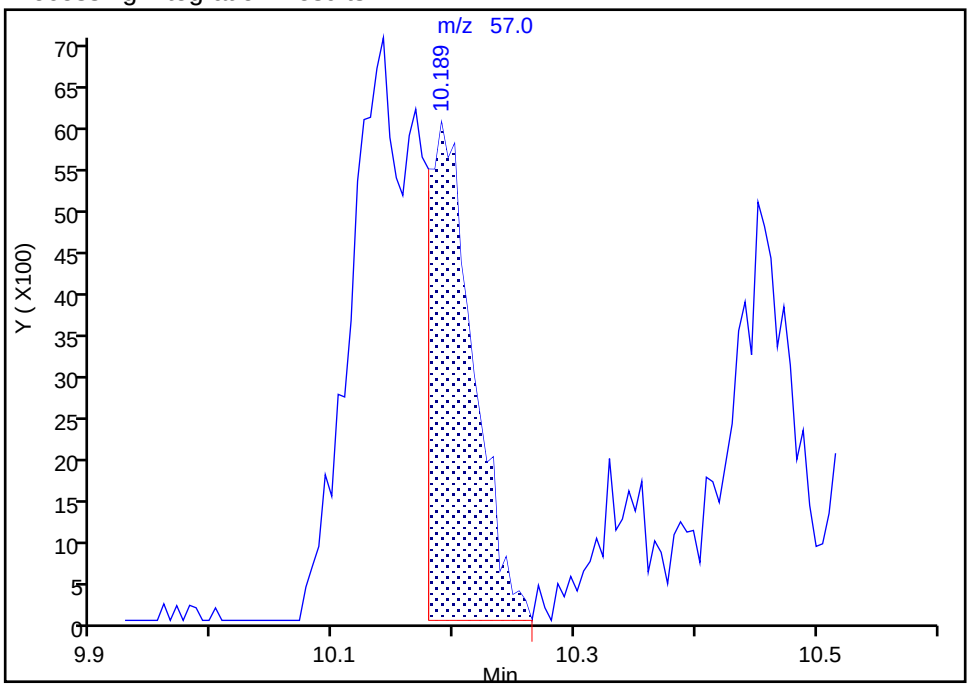
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1

Signal: 1

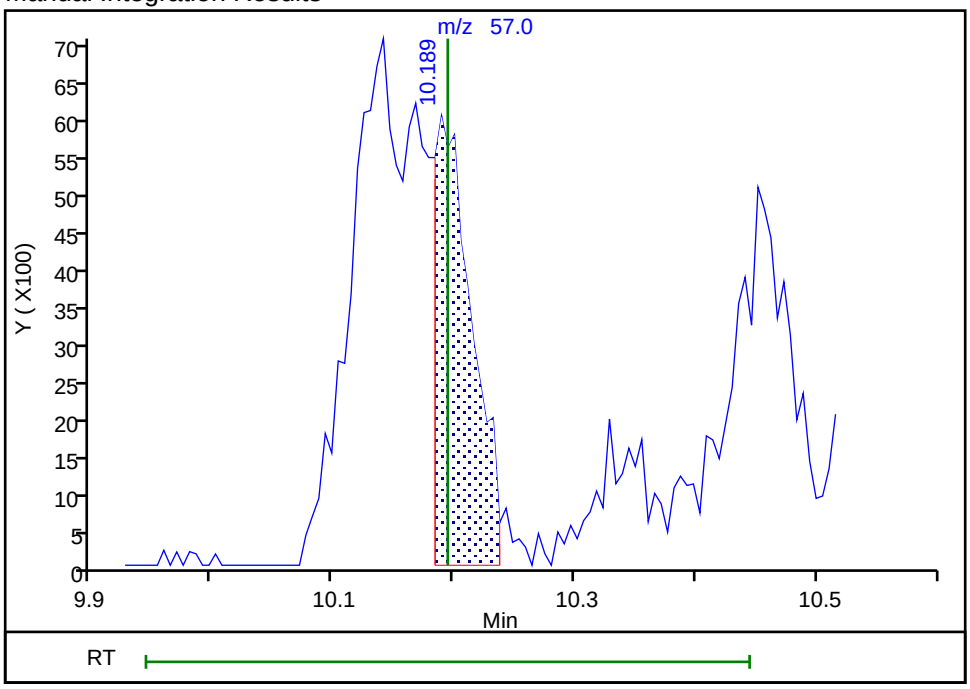
Processing Integration Results

RT: 10.19
Area: 15455
Amount: 0.109204
Amount Units: ppb v/v




Manual Integration Results

RT: 10.19
Area: 13158
Amount: 0.092973
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:42:41

Audit Action: Manually Integrated Audit Reason: Assign Peak

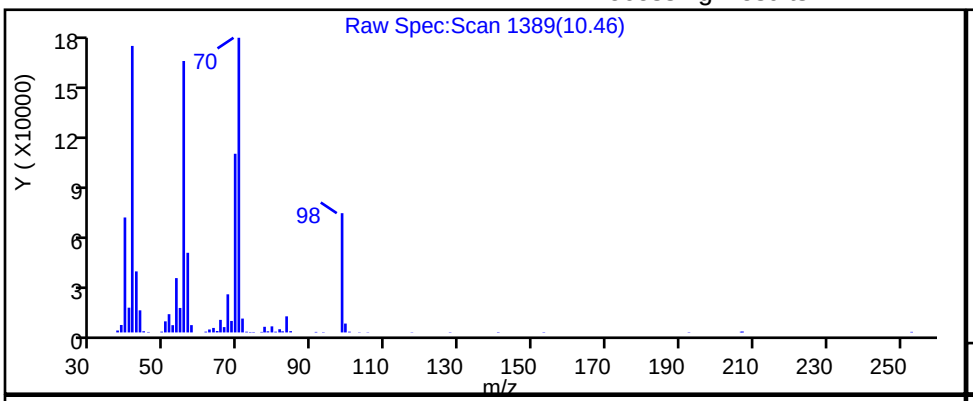
User Disabled Compound Report

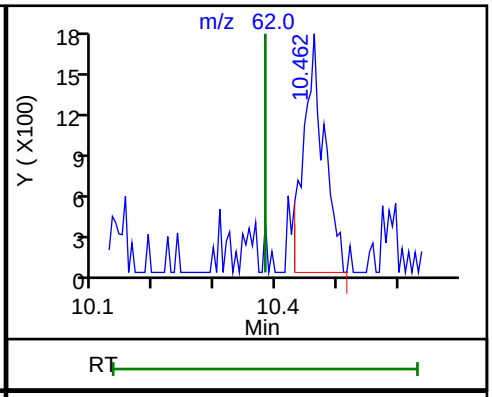
TestAmerica Burlington

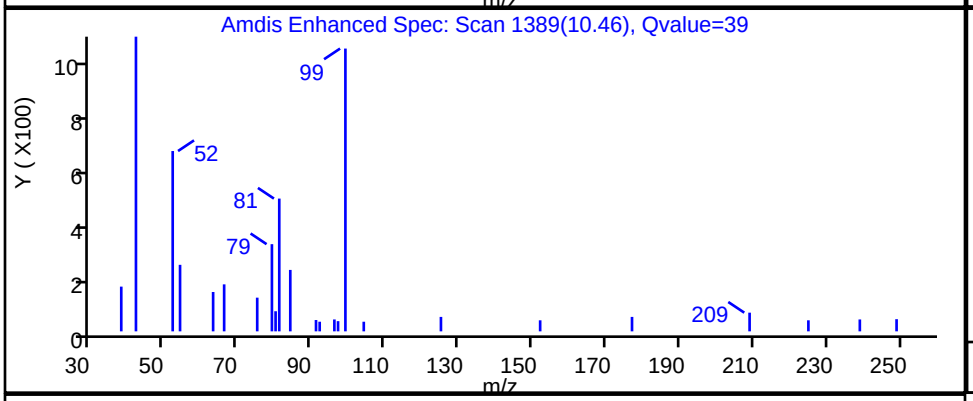
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

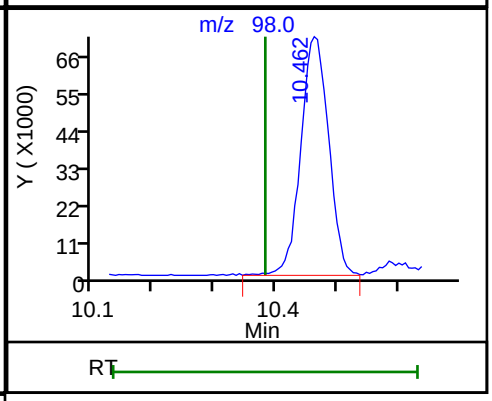
## 48 1,2-Dichloroethane, CAS: 107-06-2

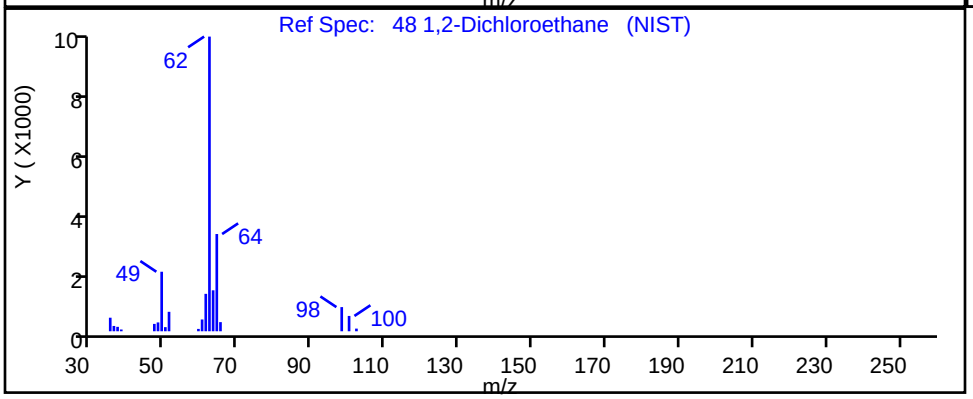
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.46 | 62.00 | 4148 | 0.072253 |
| 10.46 | 98.00 | 229023 | |

Reviewer: guazzonig, 06-Dec-2018 13:45:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

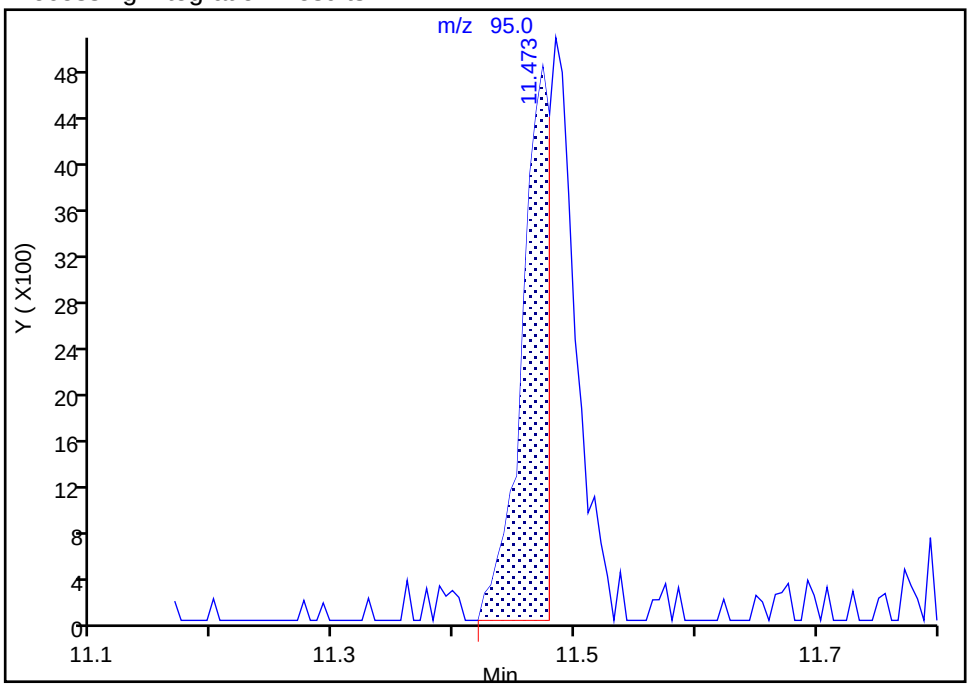
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Signal: 1

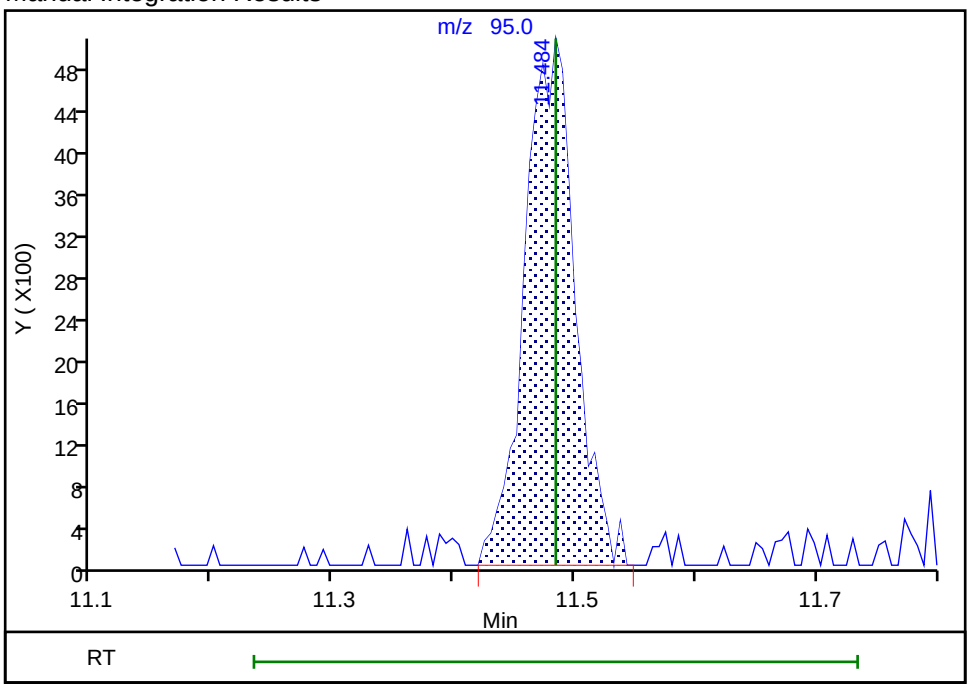
Processing Integration Results

RT: 11.47
Area: 7827
Amount: 0.120502
Amount Units: ppb v/v




Manual Integration Results

RT: 11.48
Area: 14649
Amount: 0.225532
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:45:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

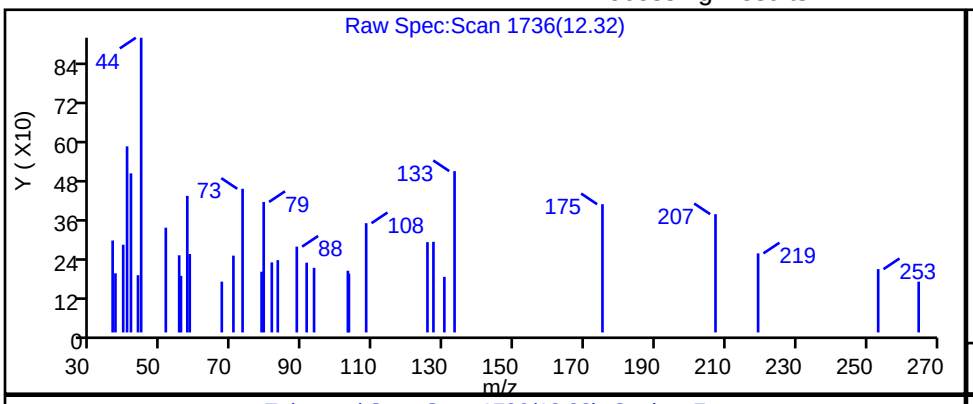
User Disabled Compound Report

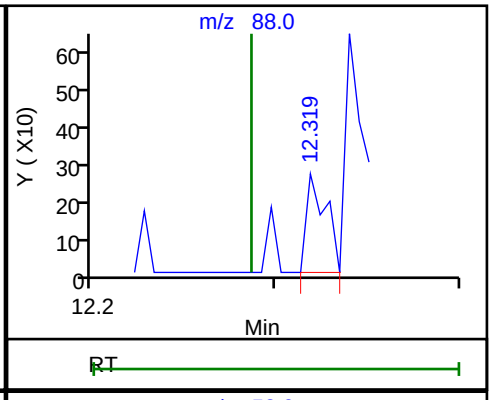
TestAmerica Burlington

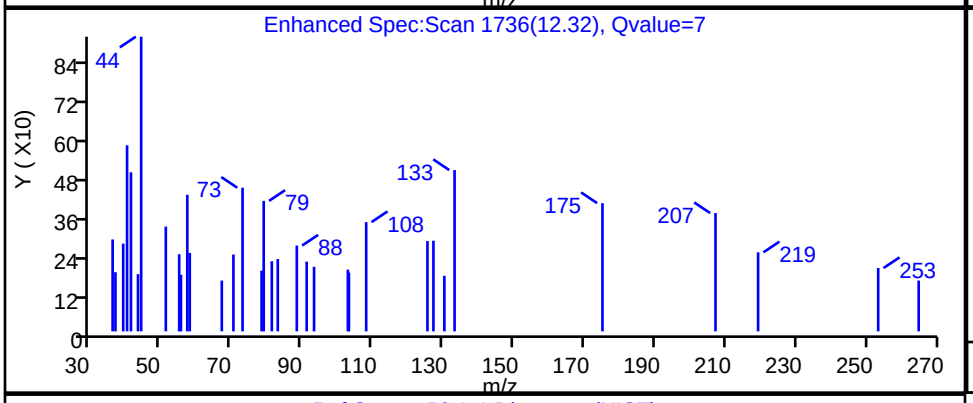
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

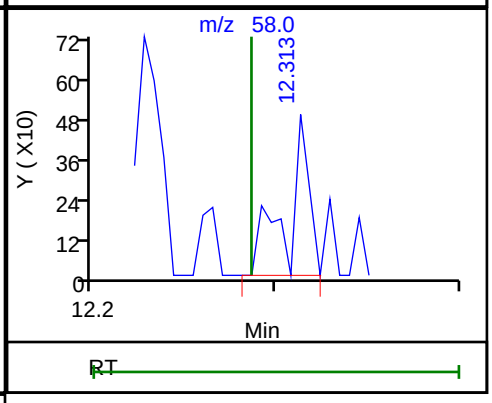
## 56 1,4-Dioxane, CAS: 123-91-1

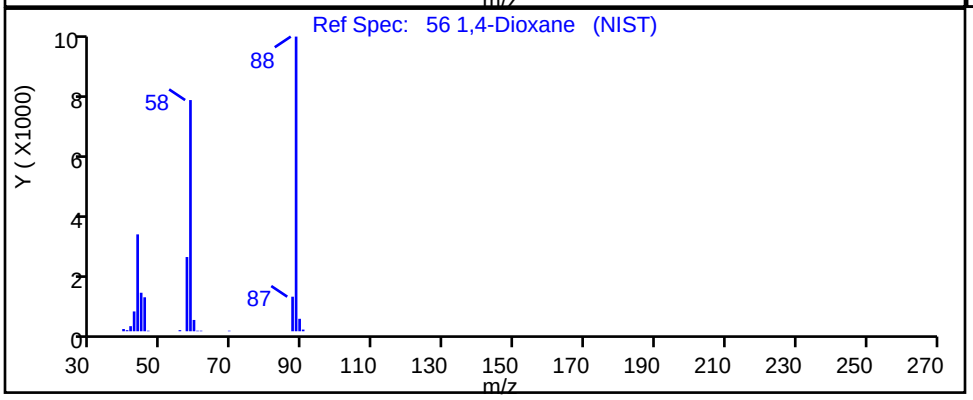
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.32 | 88.00 | 198 | 0.010852 |
| 12.31 | 58.00 | 411 | |

Reviewer: bunmaa, 07-Dec-2018 09:43:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

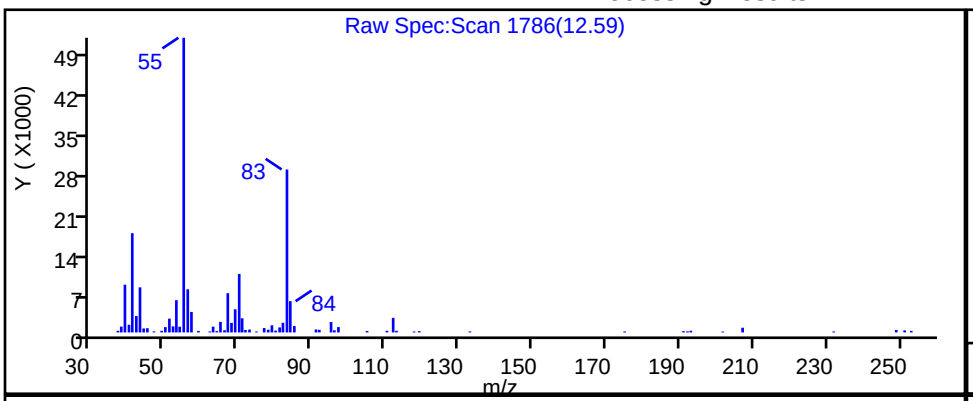
User Disabled Compound Report

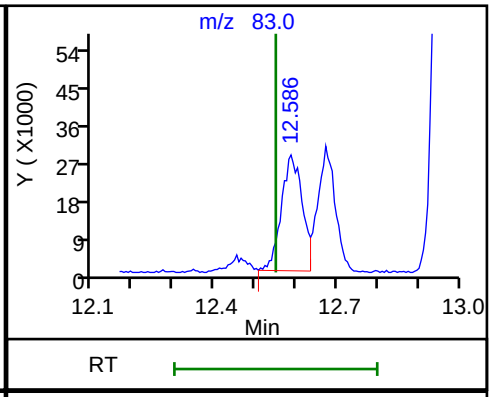
TestAmerica Burlington

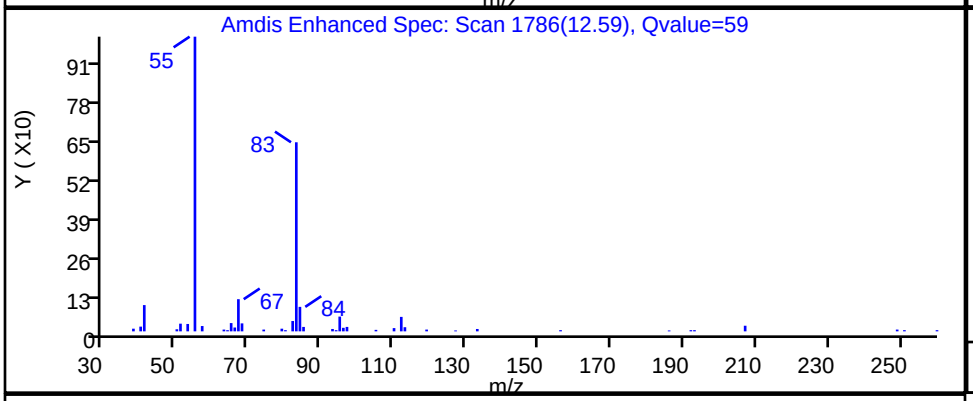
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

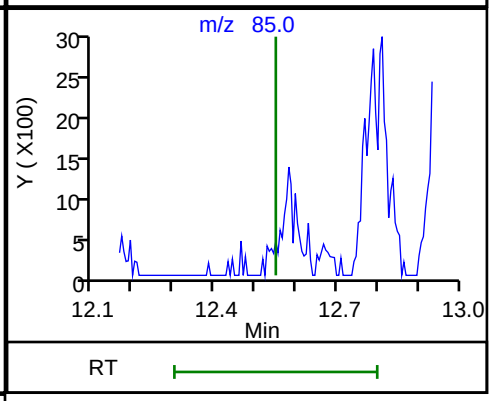
## 58 Dichlorobromomethane, CAS: 75-27-4

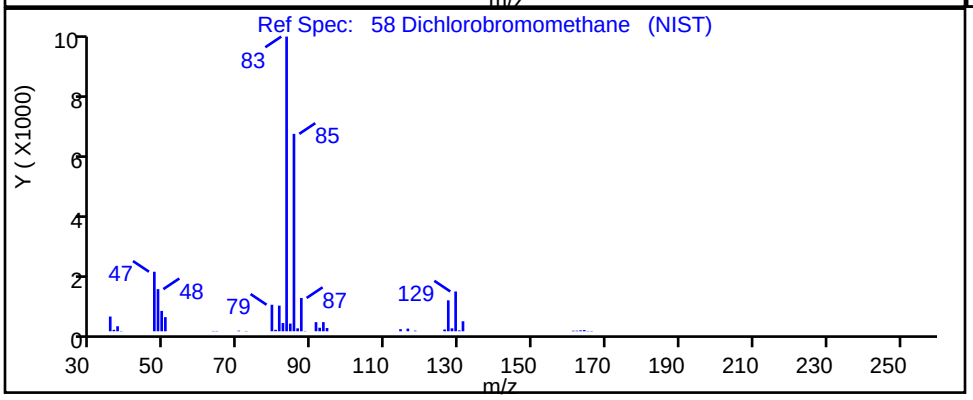
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.59 | 83.00 | 101341 | 1.004682 |
| 12.55 | 85.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:43:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

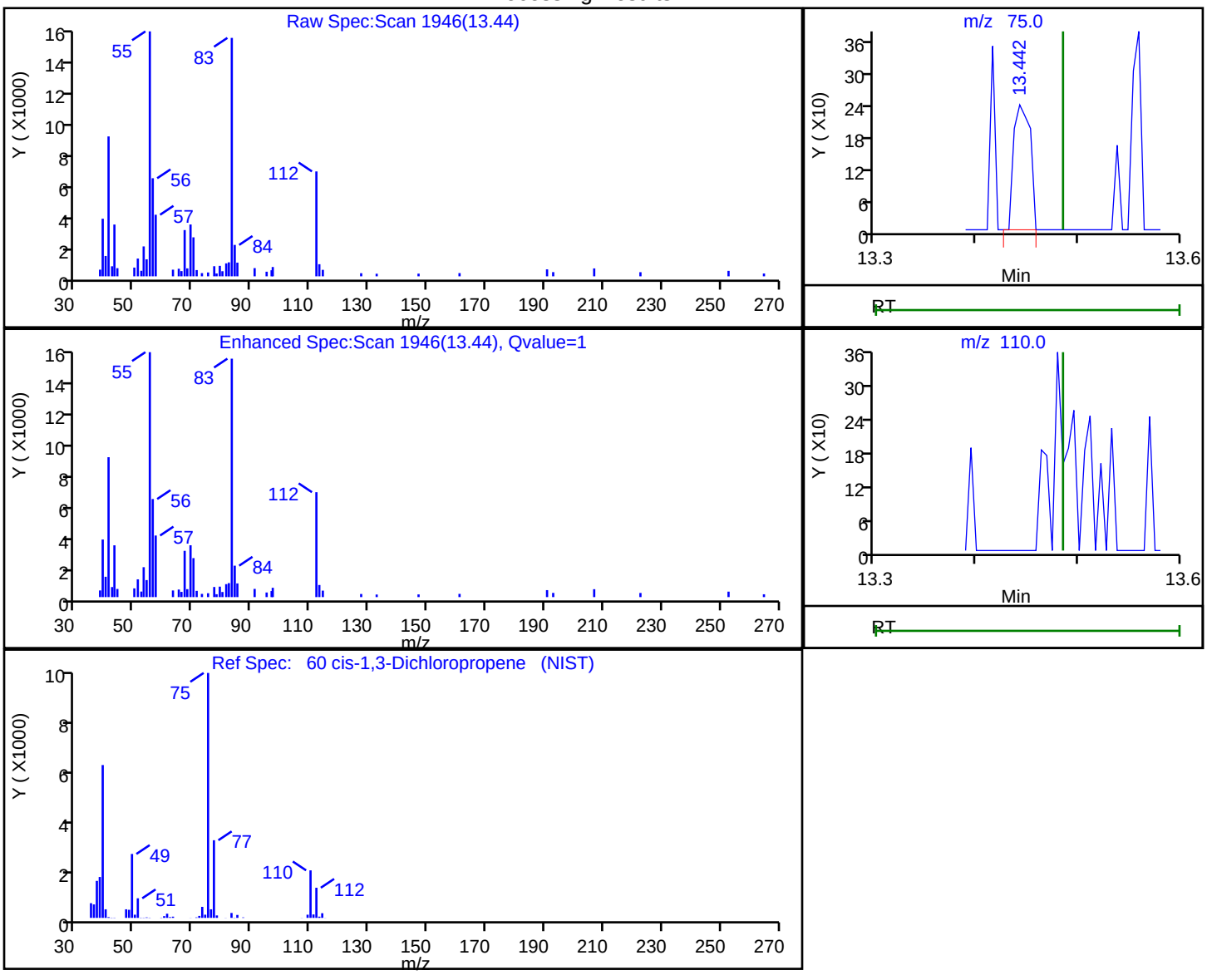
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.44 | 75.00 | 270 | 0.004323 |
| 13.48 | 110.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:43:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

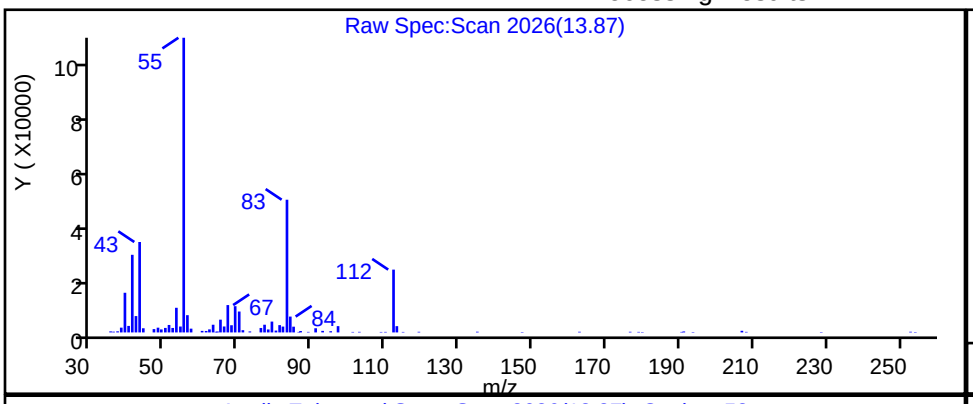
User Disabled Compound Report

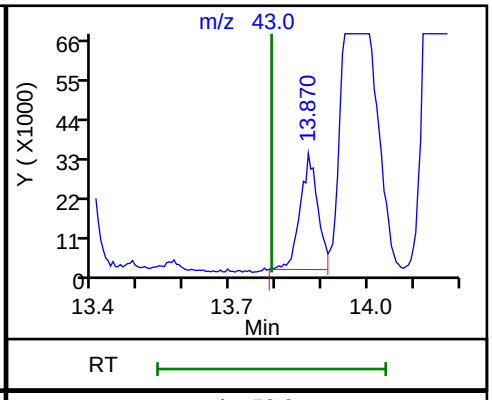
TestAmerica Burlington

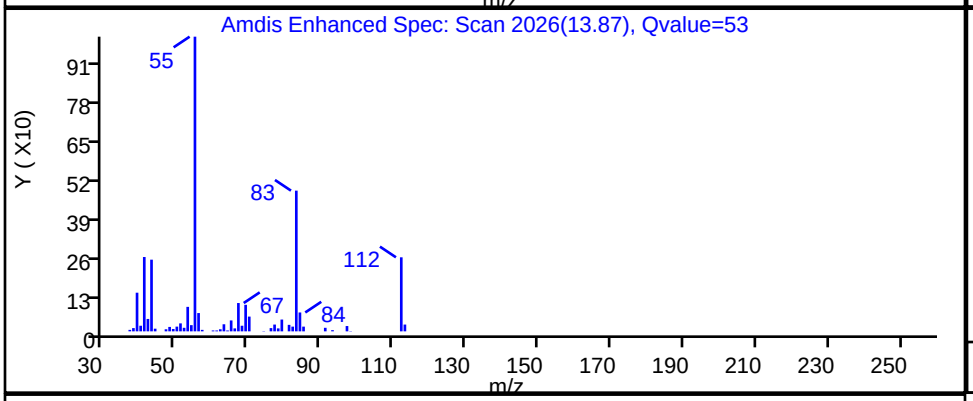
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

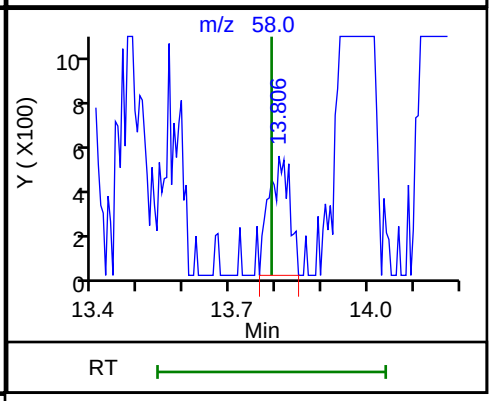
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

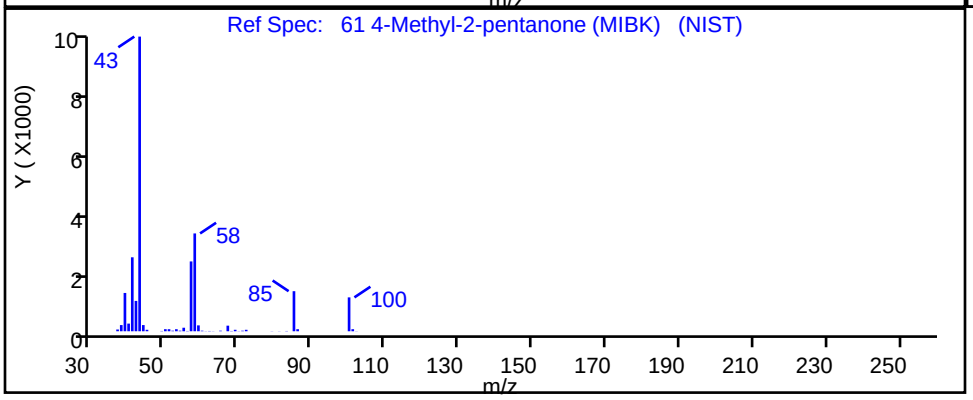
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.87 | 43.00 | 86865 | 1.345817 |
| 13.81 | 58.00 | 1579 | |

Reviewer: guazzonig, 06-Dec-2018 13:46:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

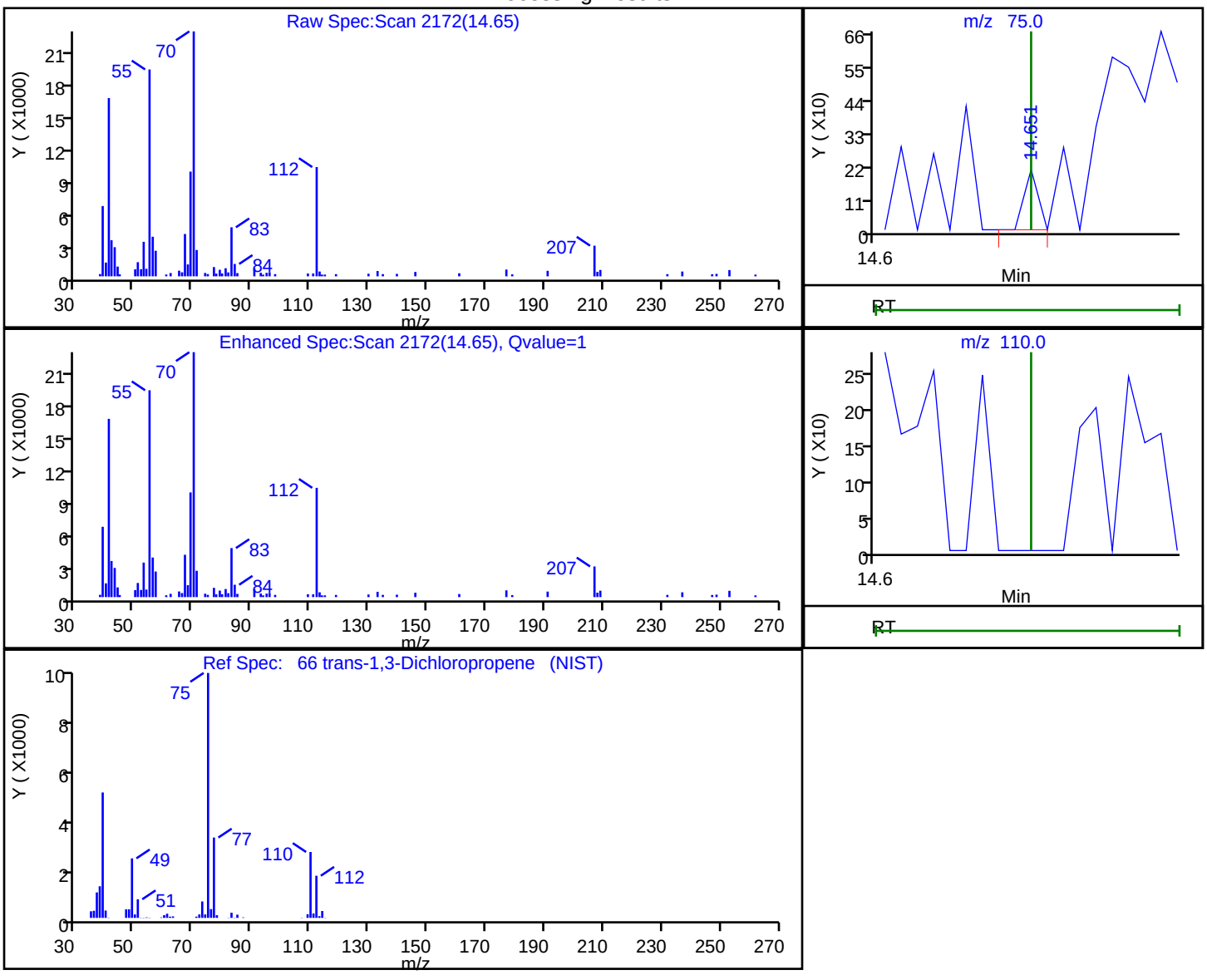
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.65 | 75.00 | 65 | 0.001058 |
| 14.65 | 110.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:43:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

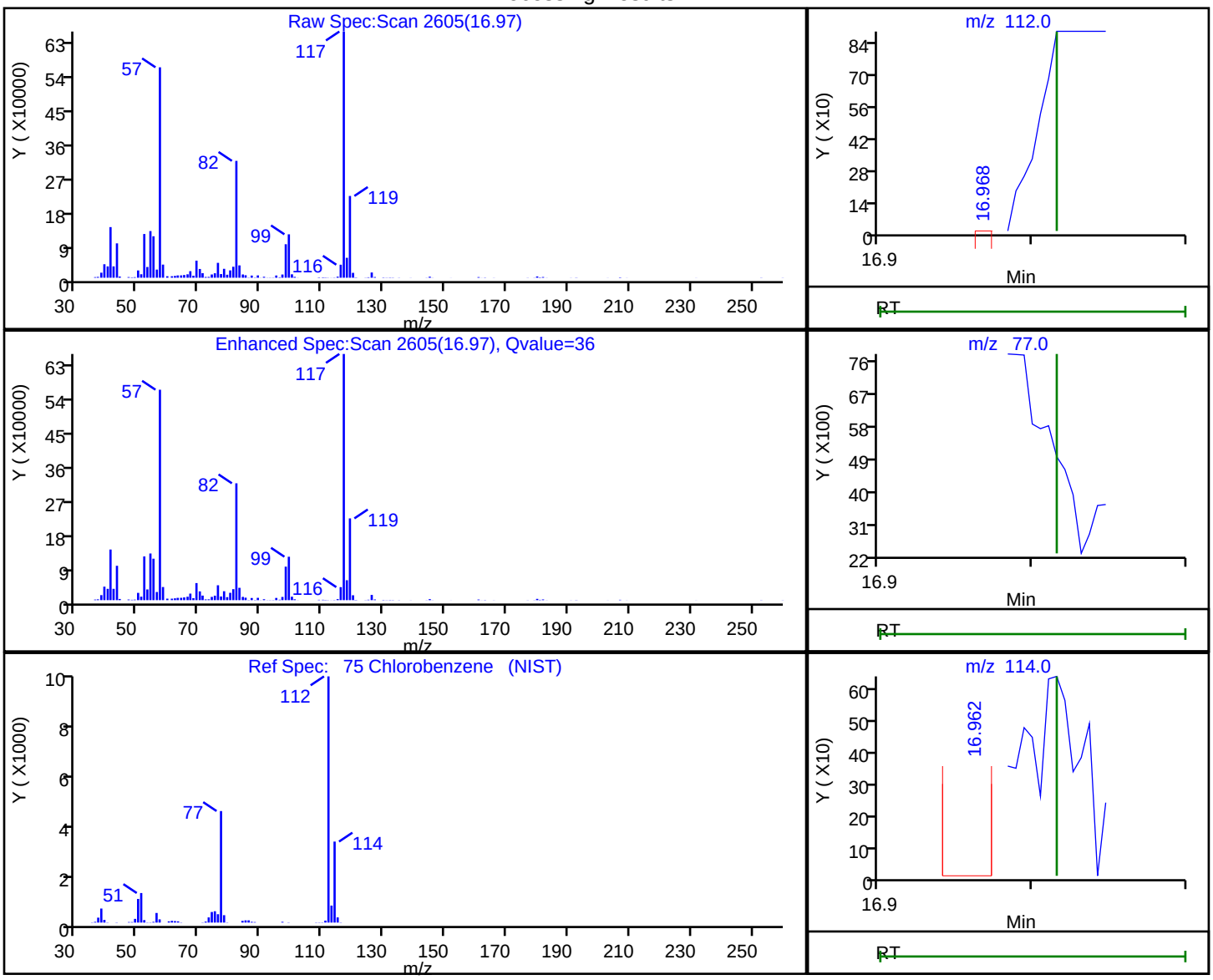
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 16.97 | 112.00 | 141 | 0.001084 |
| 16.96 | 114.00 | 905 | |
| 17.02 | 77.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:43:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

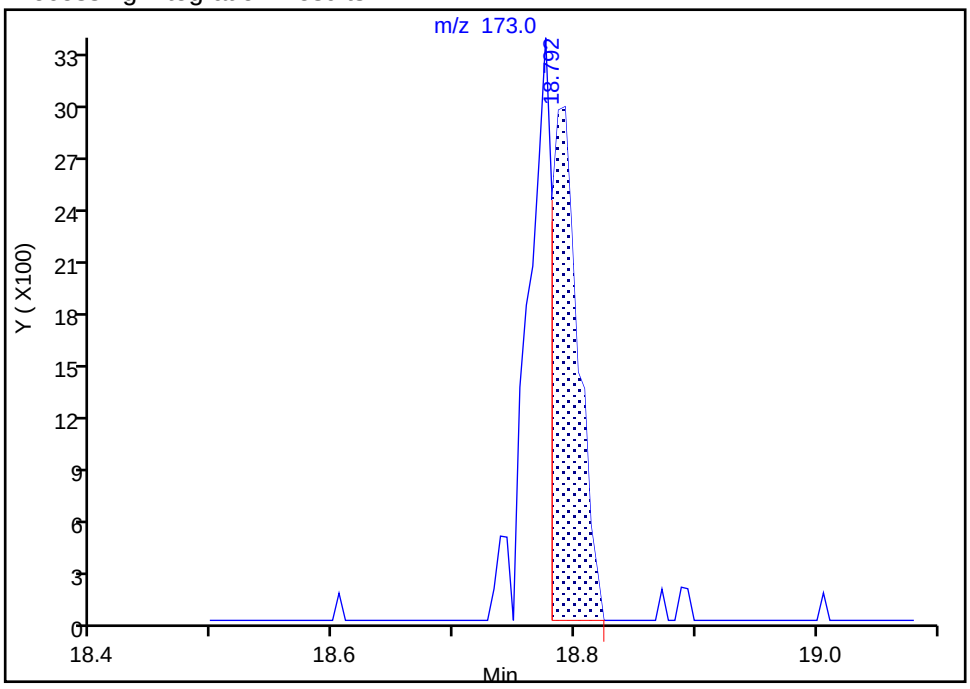
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 81 Bromoform, CAS: 75-25-2

Signal: 1

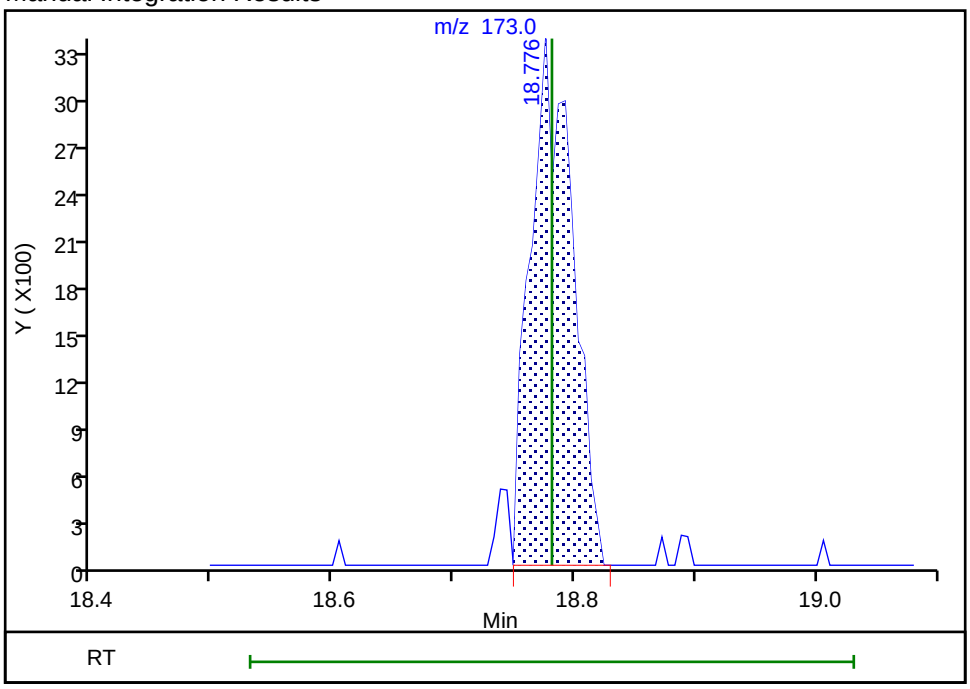
Processing Integration Results

RT: 18.79
Area: 4594
Amount: 0.041526
Amount Units: ppb v/v




Manual Integration Results

RT: 18.78
Area: 8229
Amount: 0.074383
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:47:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

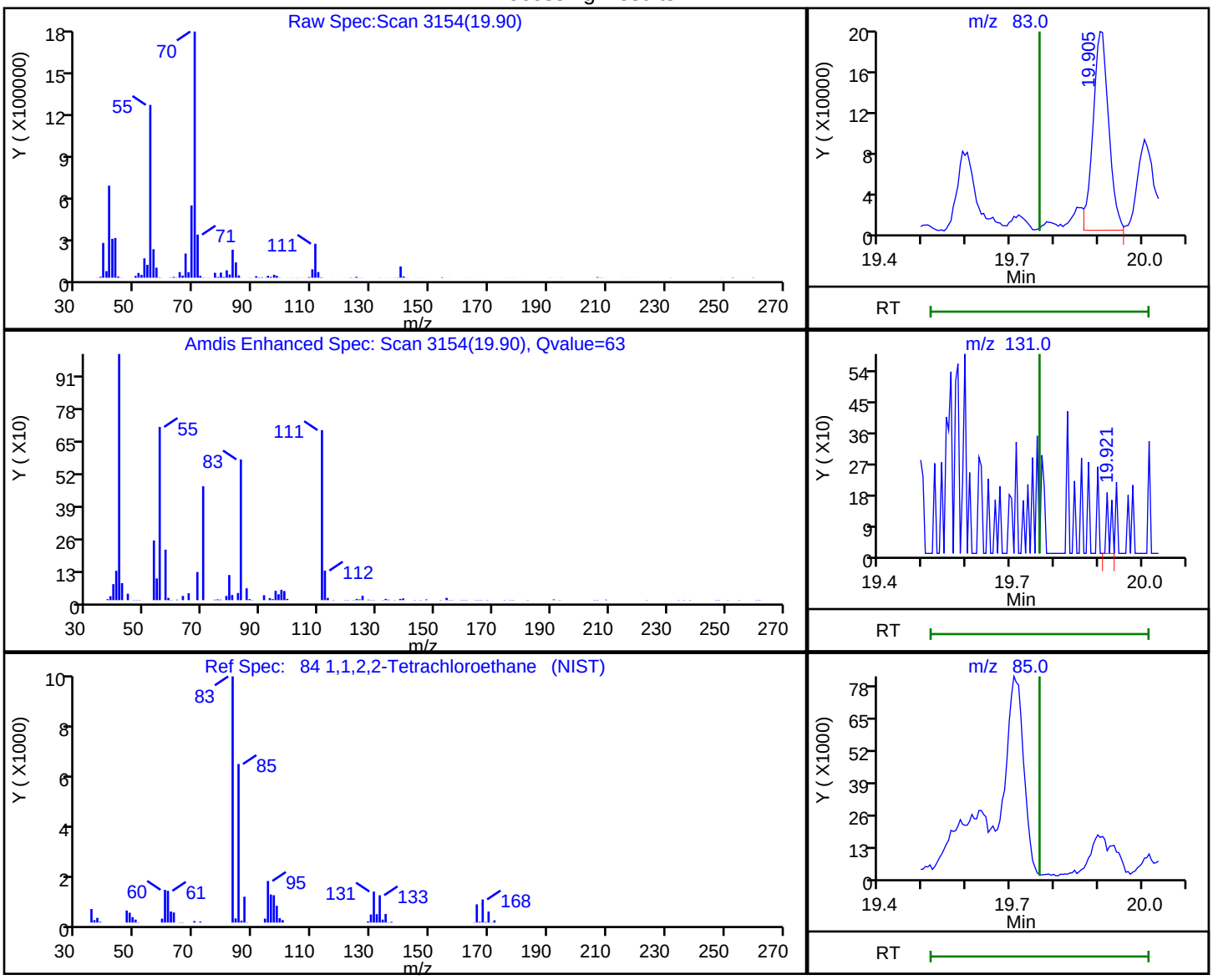
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.90 | 83.00 | 475917 | 4.067706 |
| 19.92 | 131.00 | 108 | |
| 19.77 | 85.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:47:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

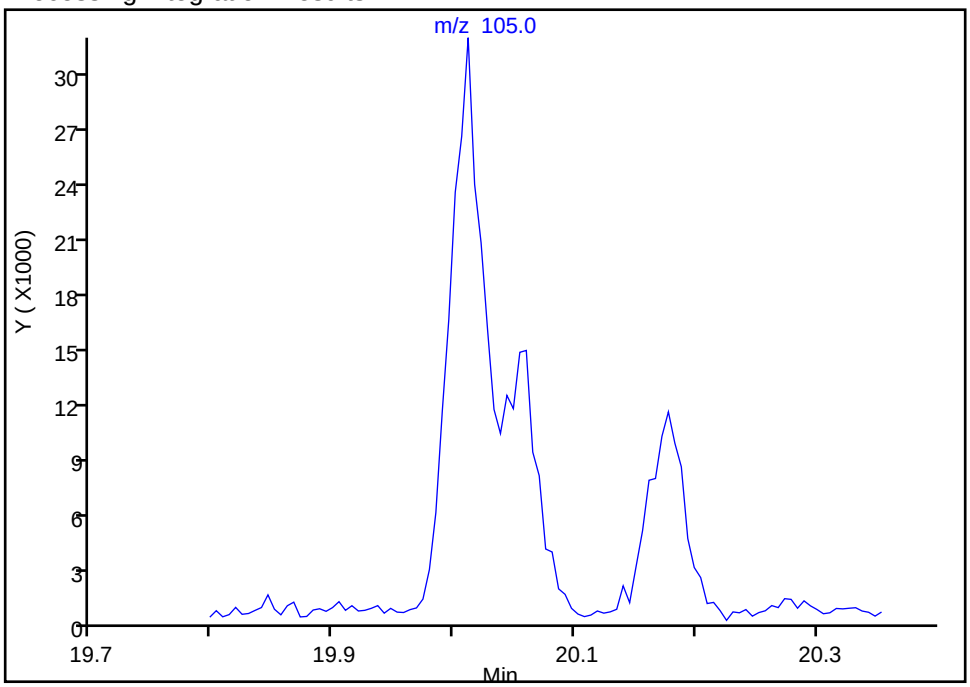
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

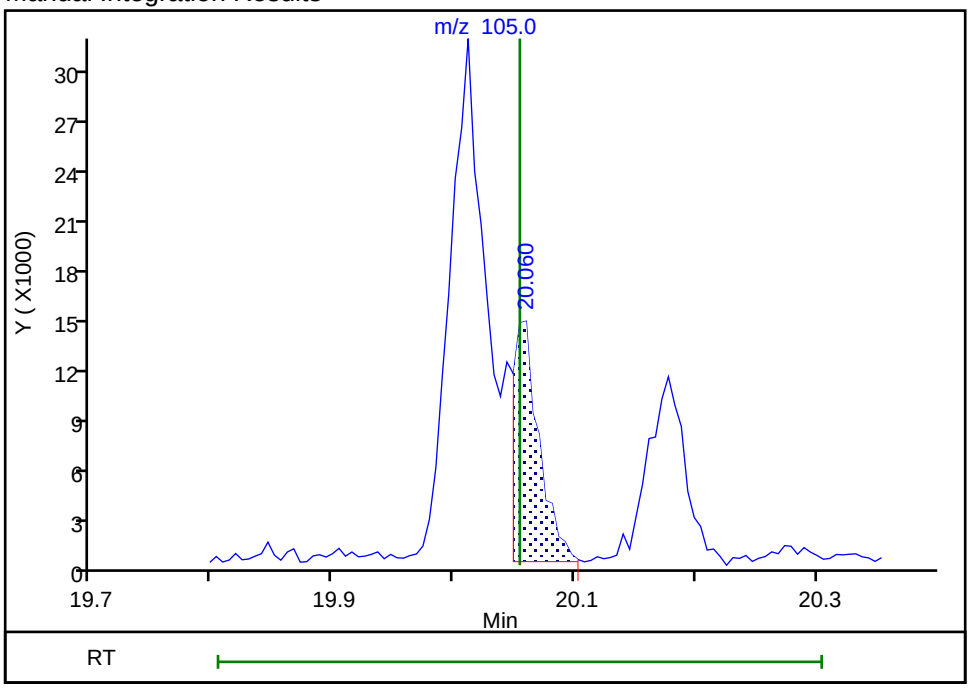
Not Detected
Expected RT: 20.05

Processing Integration Results




Manual Integration Results

RT: 20.06
Area: 21131
Amount: 0.097211
Amount Units: ppb v/v




Reviewer: bunmaa, 07-Dec-2018 09:44:56
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

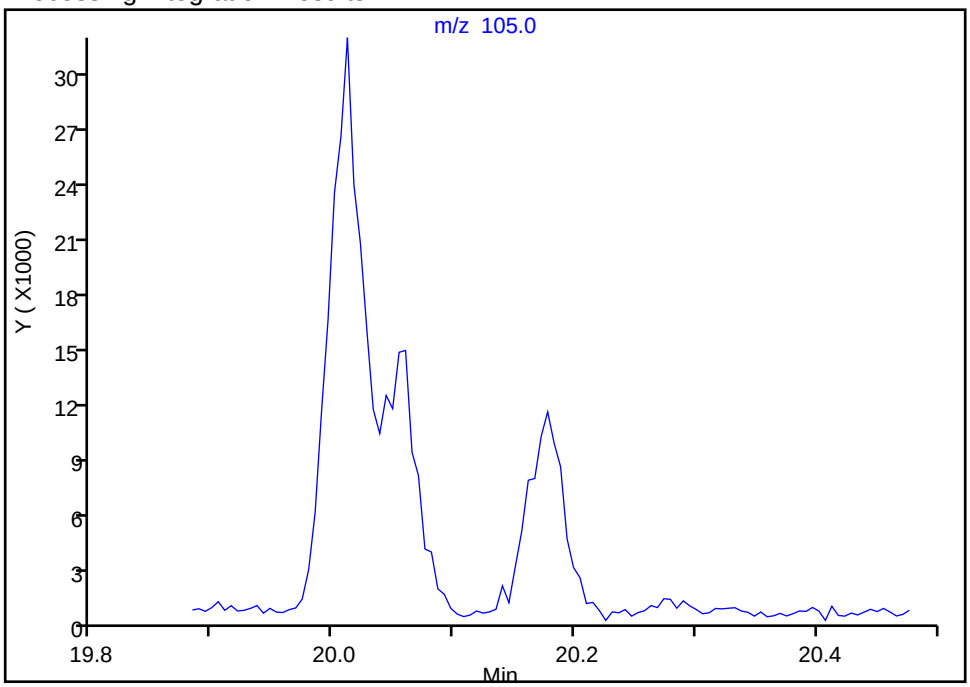
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

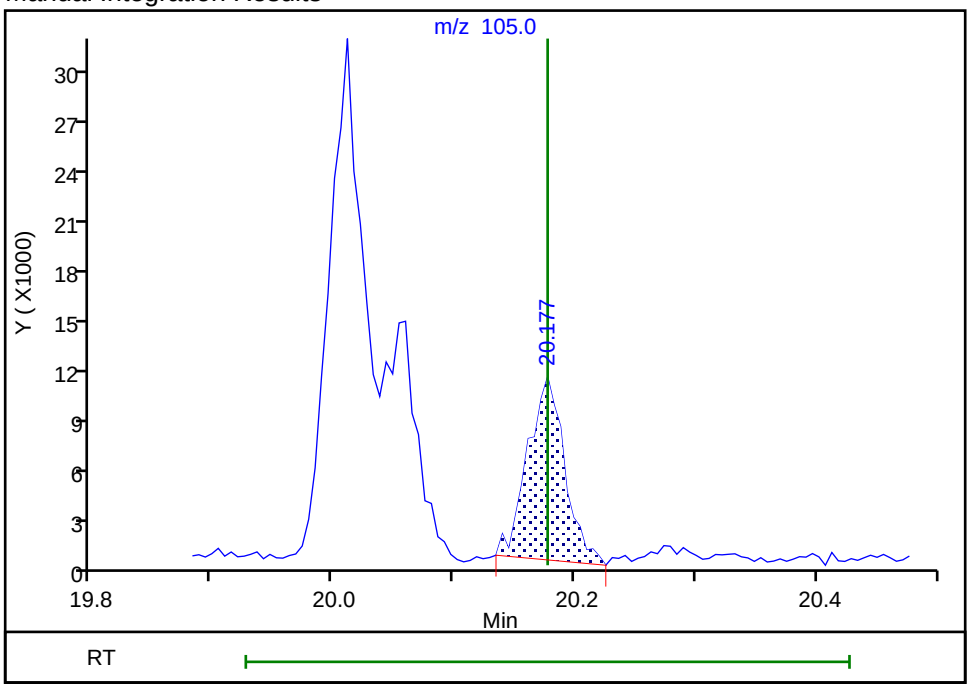
Not Detected
Expected RT: 20.18

Processing Integration Results




Manual Integration Results

RT: 20.18
Area: 22847
Amount: 0.122847
Amount Units: ppb v/v




Reviewer: guazzonig, 06-Dec-2018 13:48:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

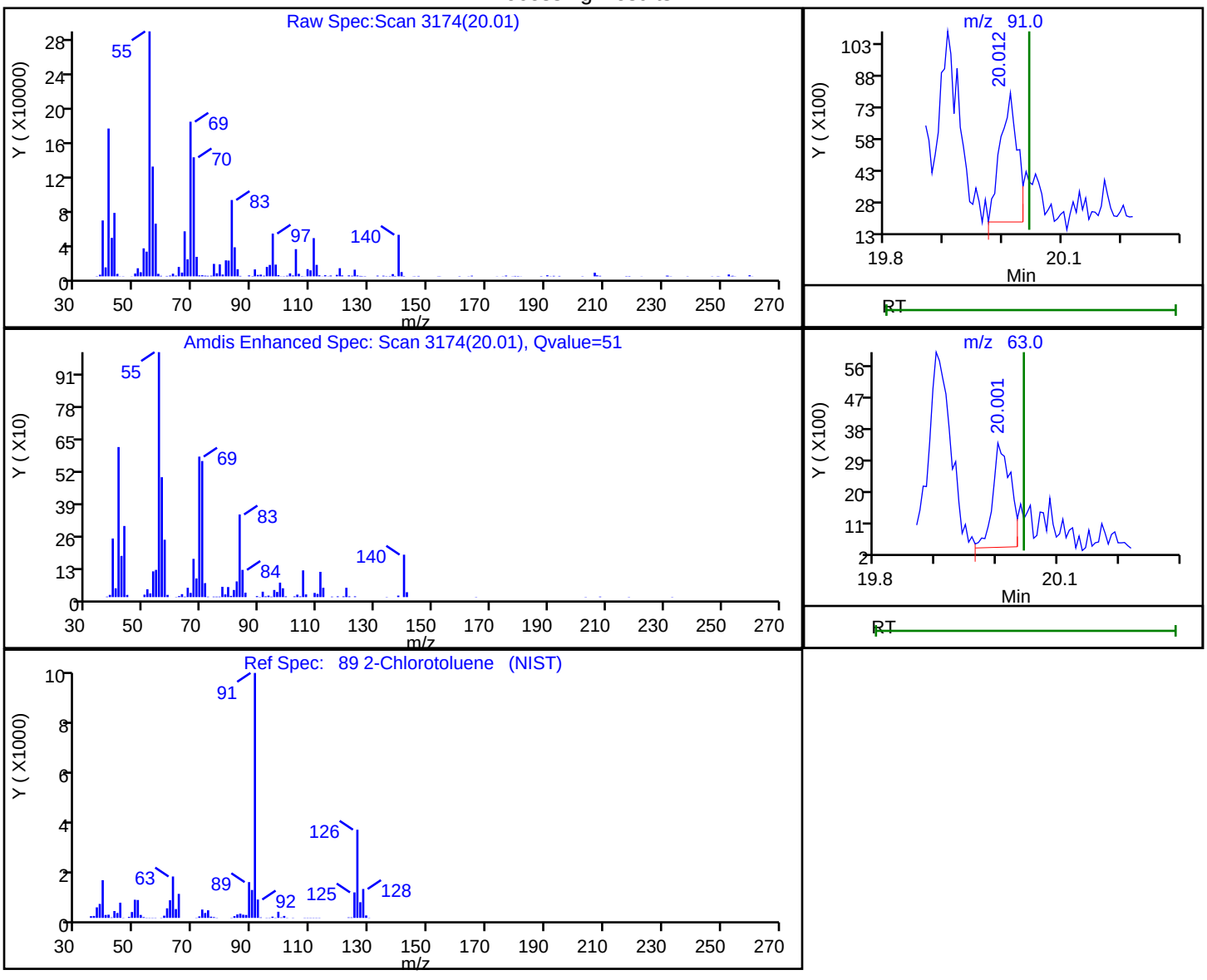
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.01 | 91.00 | 12506 | 0.064851 |
| 20.00 | 63.00 | 6153 | |

Reviewer: guazzonig, 06-Dec-2018 13:48:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

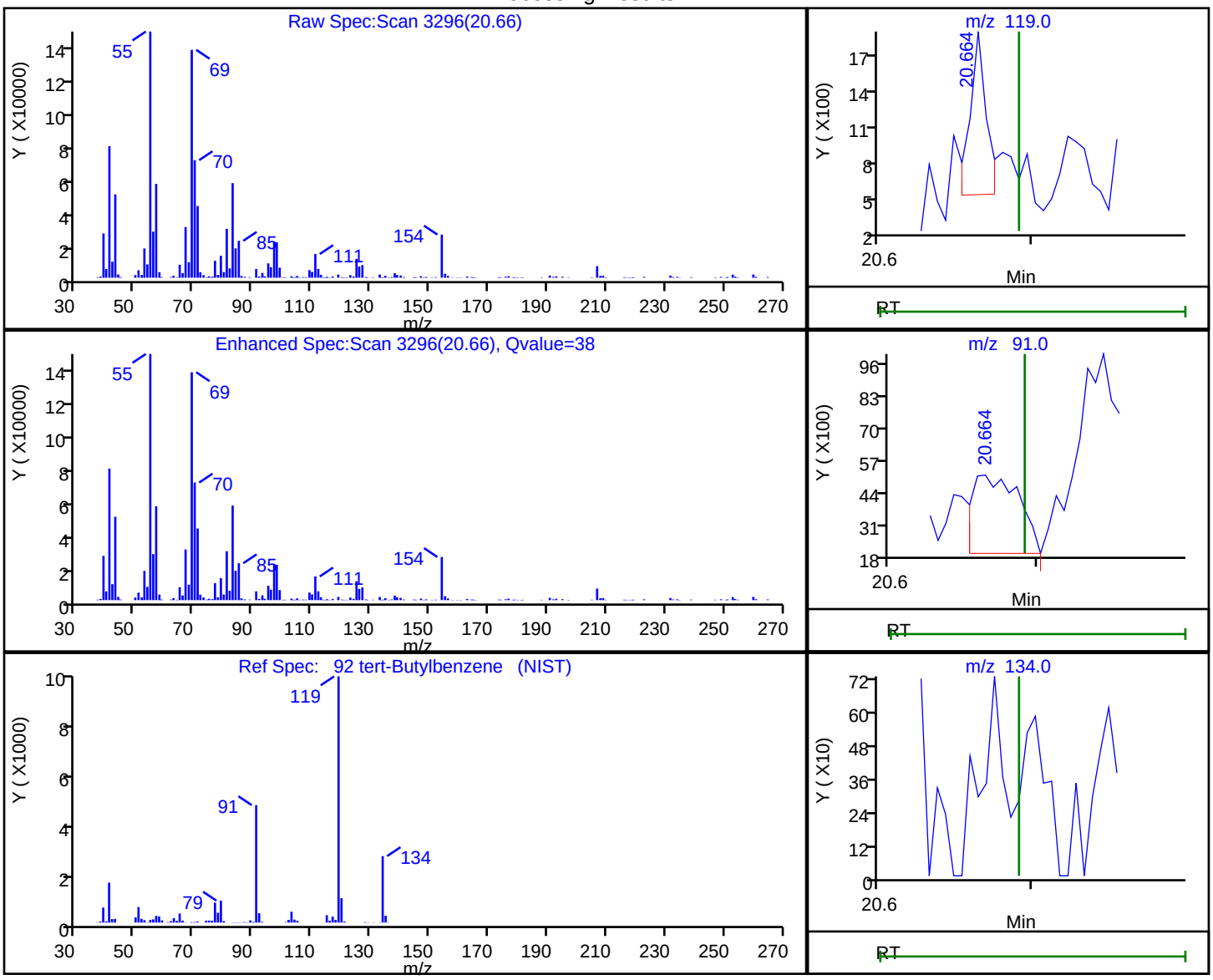
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.66 | 119.00 | 951 | 0.005467 |
| 20.66 | 91.00 | 7054 | |
| 20.69 | 134.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:49:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

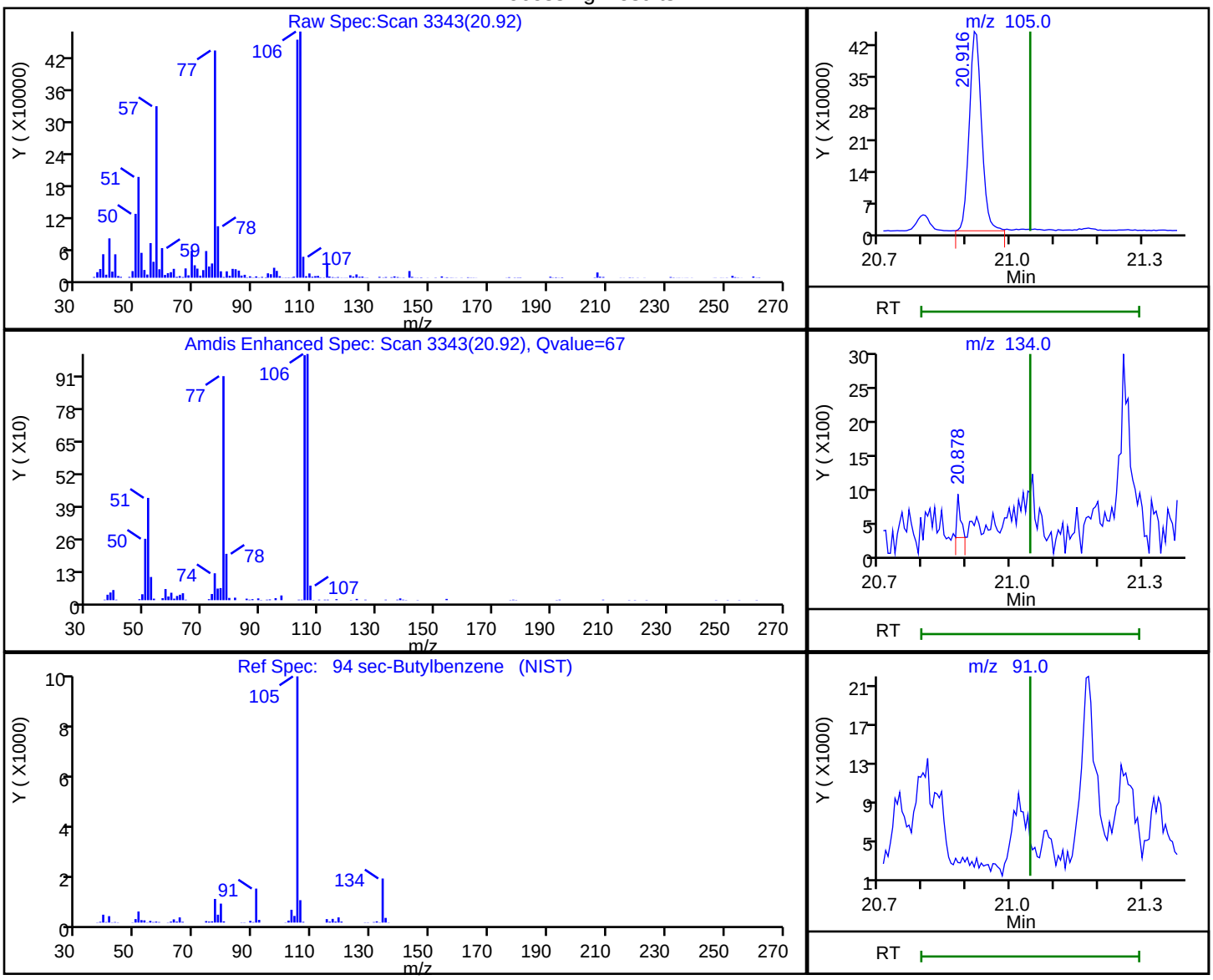
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 868045 | 3.365088 |
| 20.88 | 134.00 | 353 | |
| 21.04 | 91.00 | 0 | |

Reviewer: guazzonig, 06-Dec-2018 13:49:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

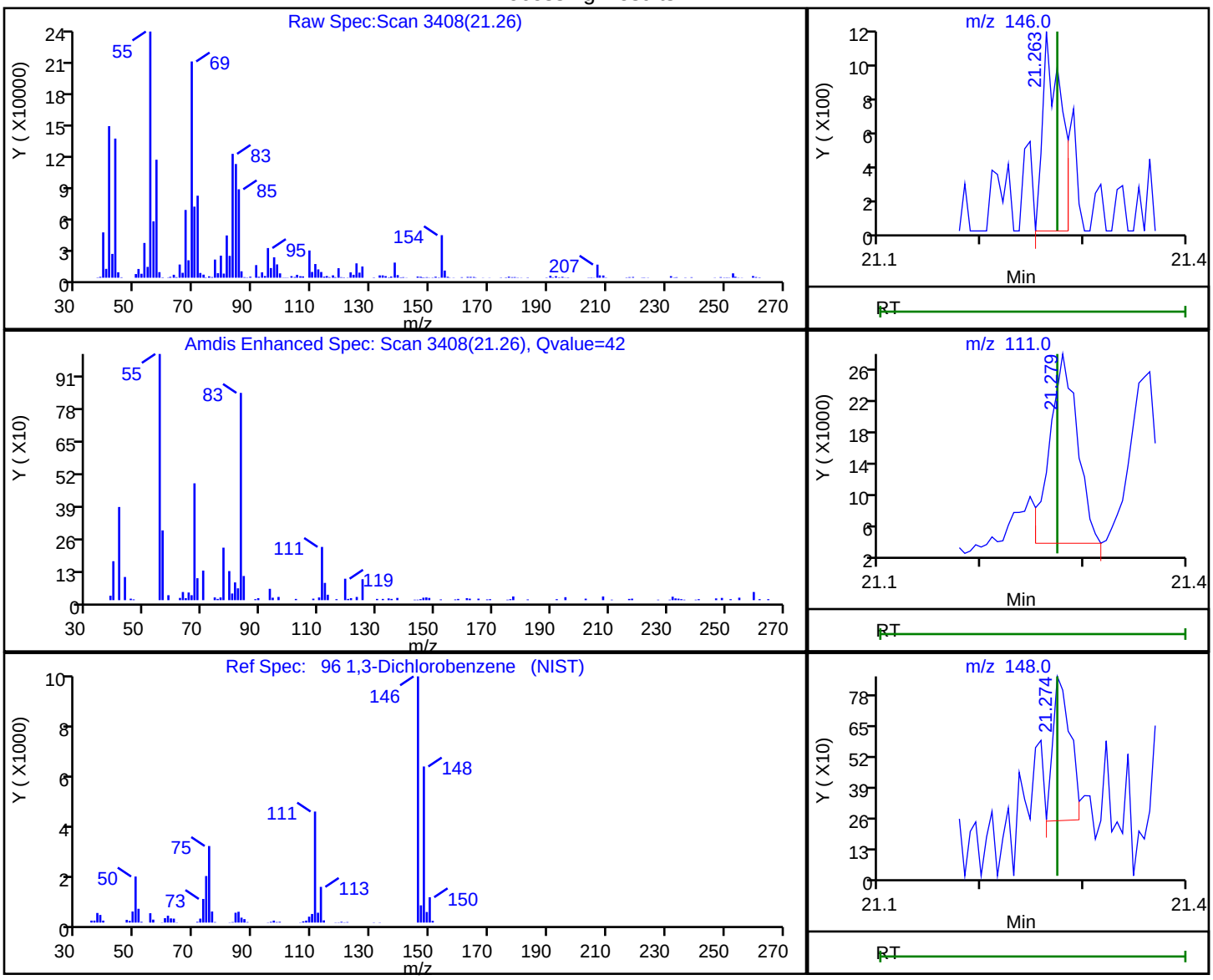
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 146.00 | 1390 | 0.009347 |
| 21.28 | 111.00 | 44597 | |
| 21.27 | 148.00 | 728 | |

Reviewer: guazzonig, 06-Dec-2018 13:49:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

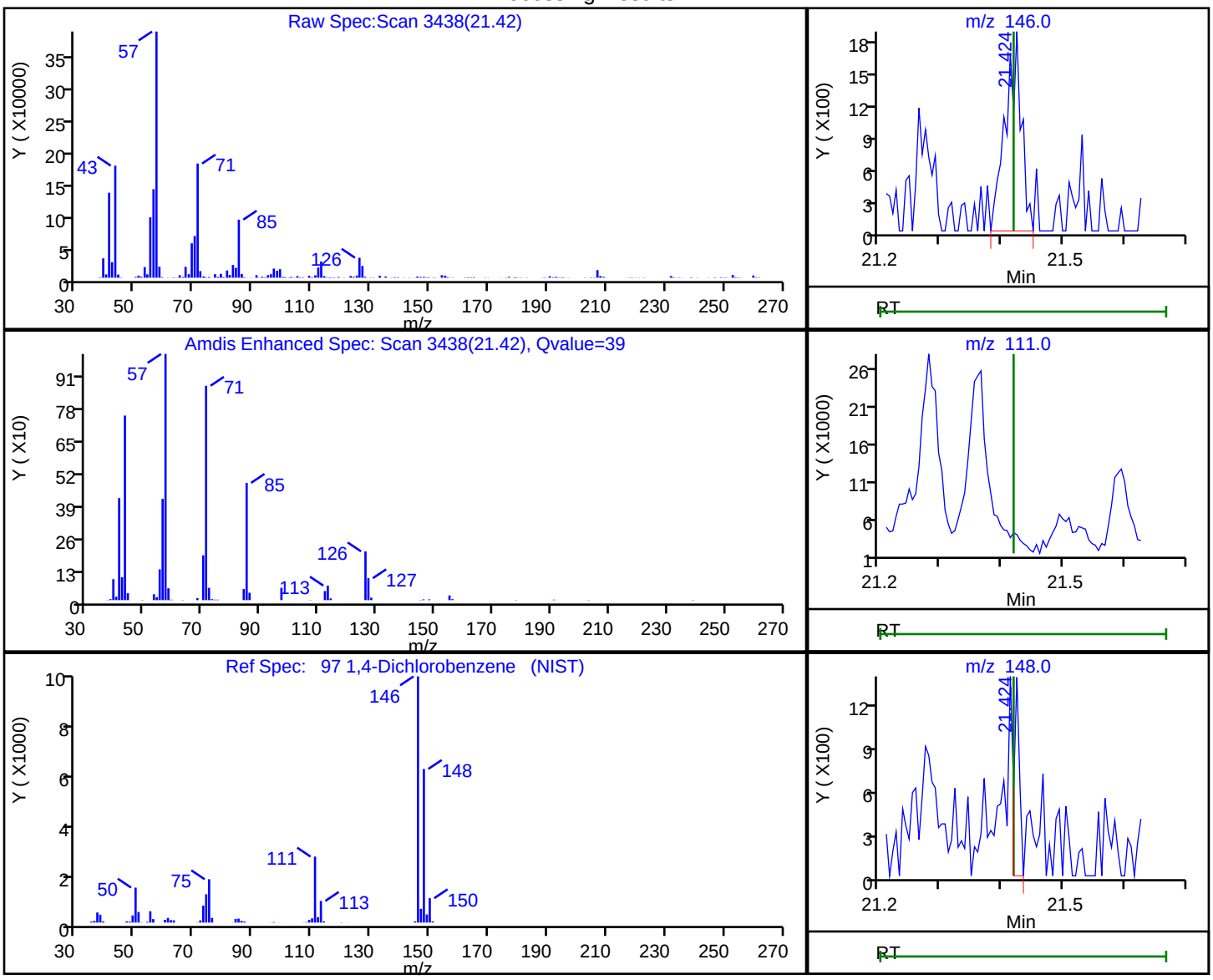
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.42 | 146.00 | 3226 | 0.022686 |
| 21.42 | 111.00 | 0 | |
| 21.42 | 148.00 | 785 | |

Reviewer: guazzonig, 06-Dec-2018 13:49:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

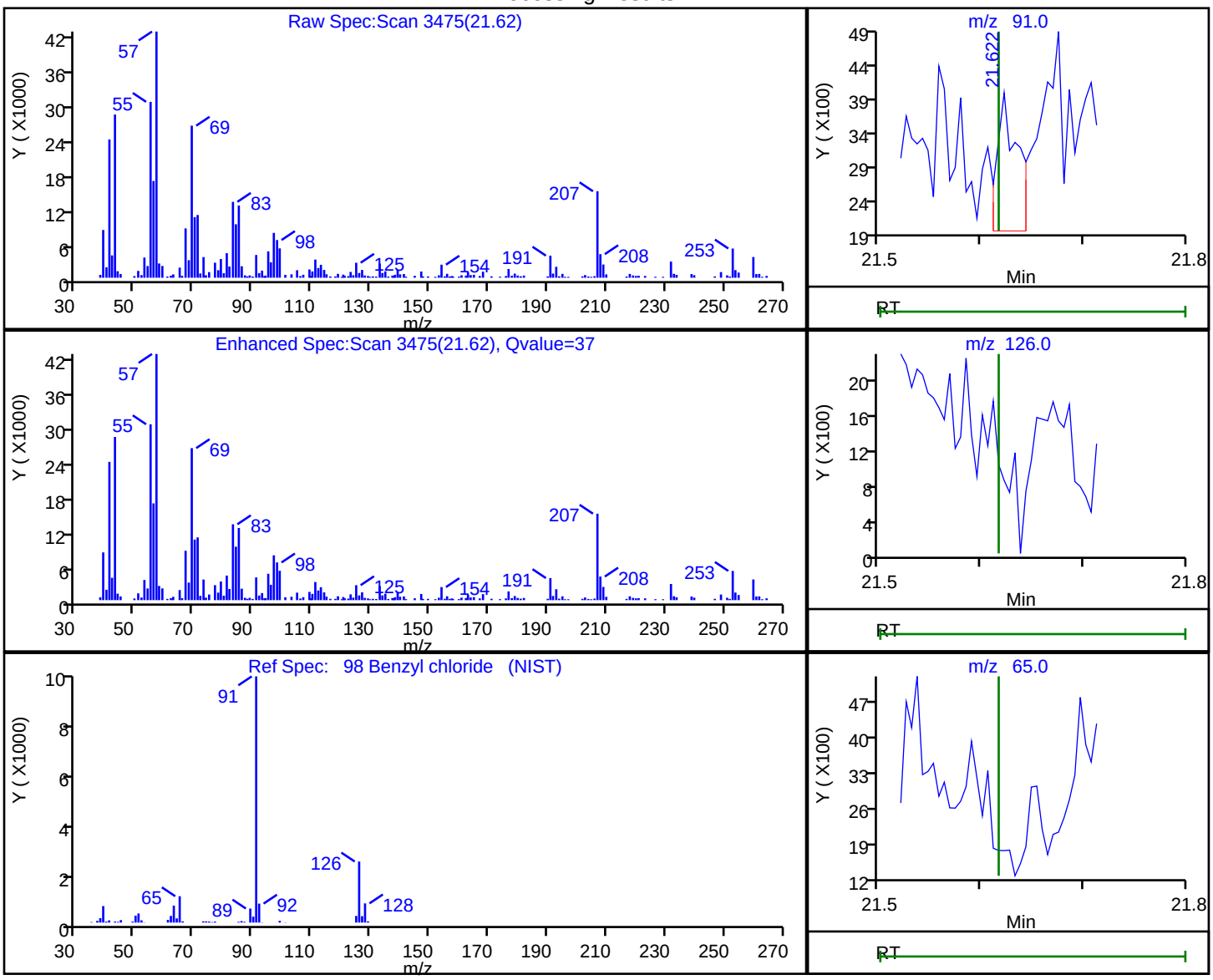
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.62 | 91.00 | 2751 | 0.015672 |
| 21.62 | 126.00 | 0 | |
| 21.62 | 65.00 | 0 | |

Reviewer: bunmaa, 07-Dec-2018 09:45:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

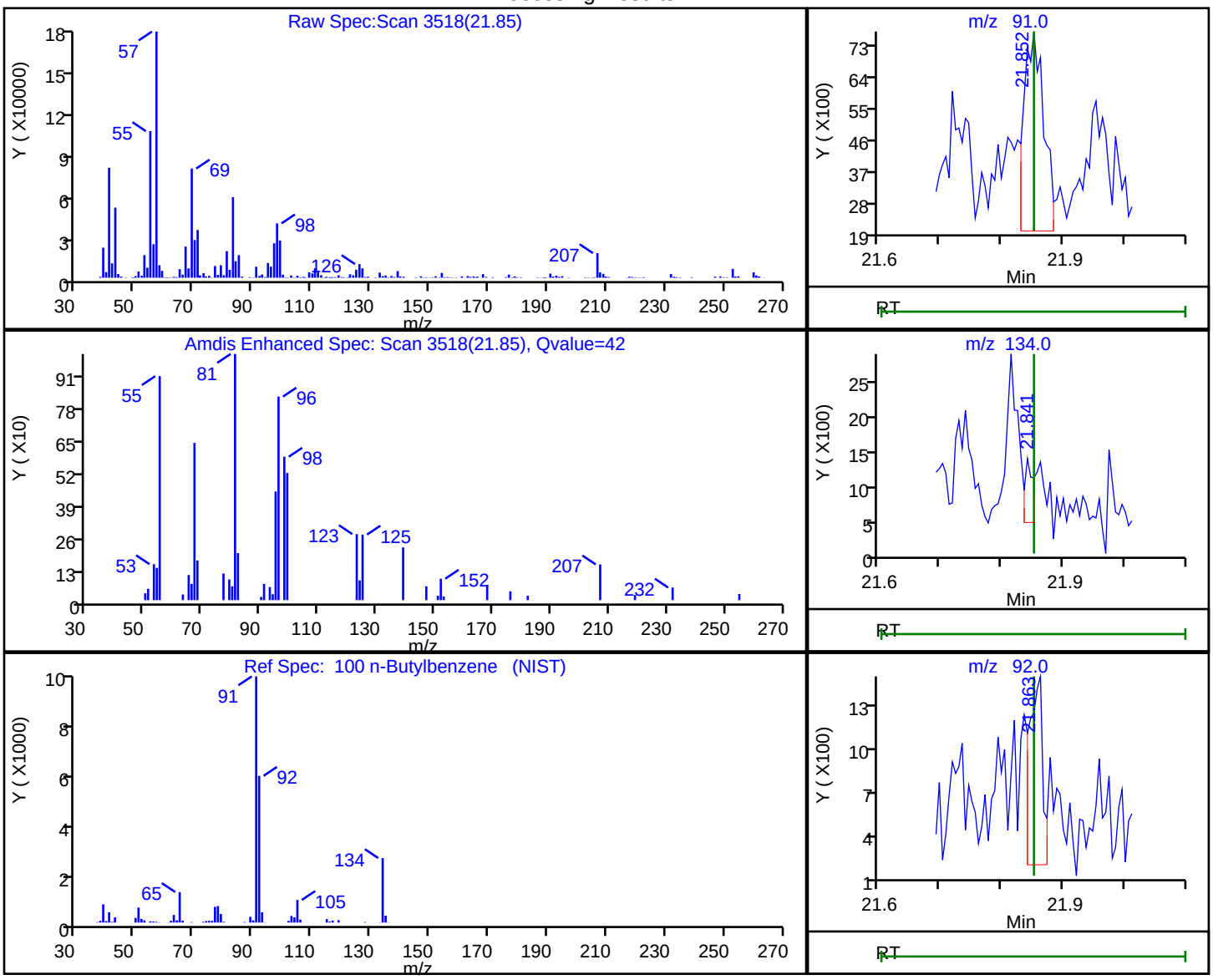
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 12849 | 0.063747 |
| 21.84 | 134.00 | 864 | |
| 21.86 | 92.00 | 1888 | |

Reviewer: guazzonig, 06-Dec-2018 13:49:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

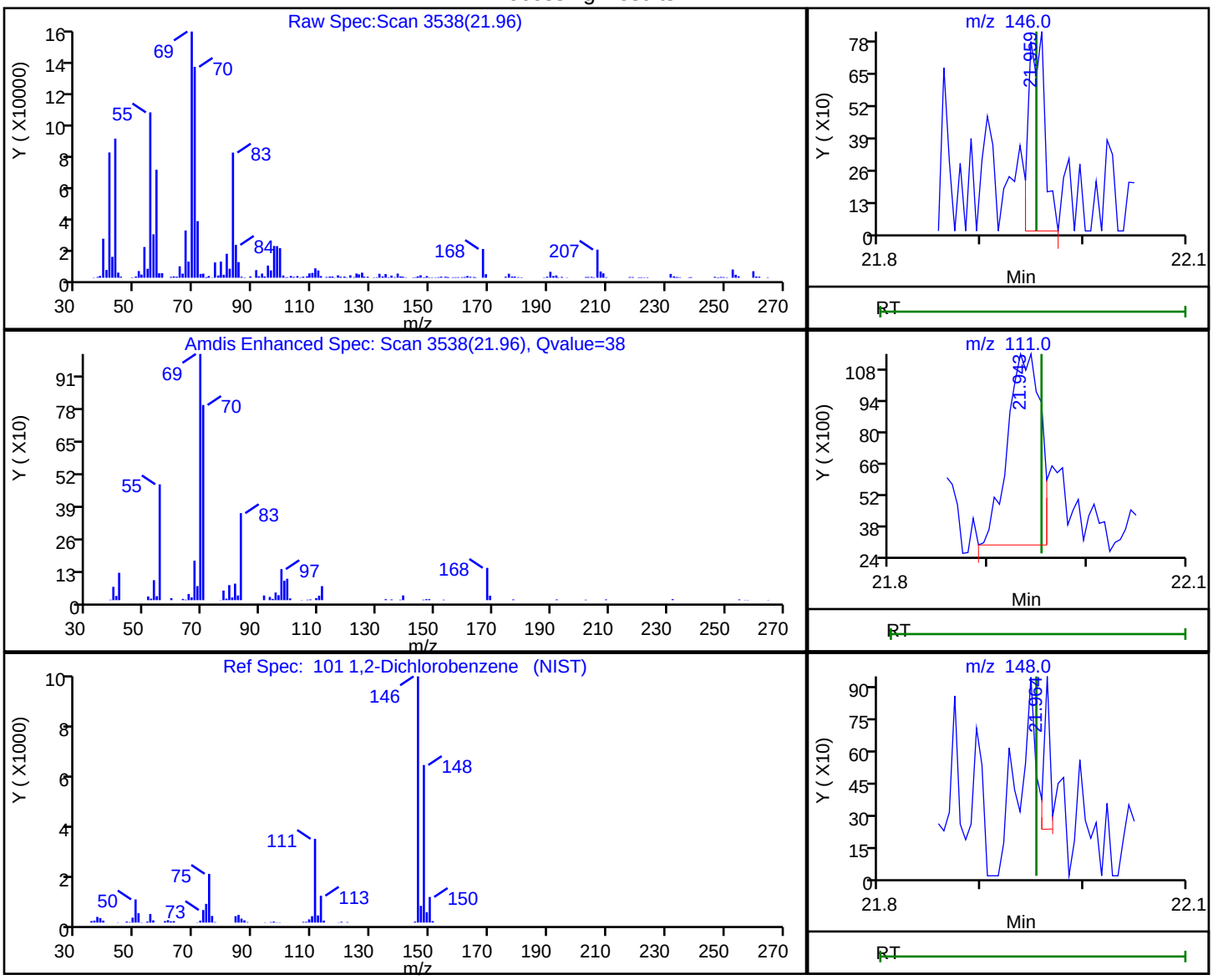
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.96 | 146.00 | 882 | 0.006454 |
| 21.94 | 111.00 | 20196 | |
| 21.96 | 148.00 | 296 | |

Reviewer: bunmaa, 07-Dec-2018 09:45:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

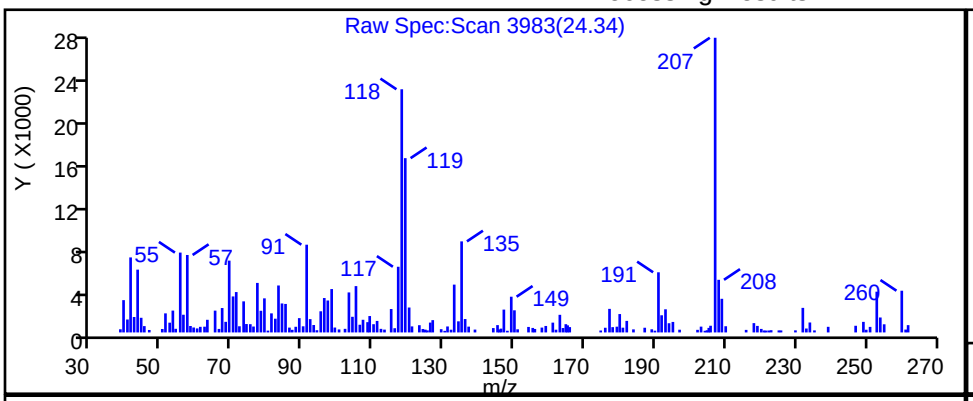
User Disabled Compound Report

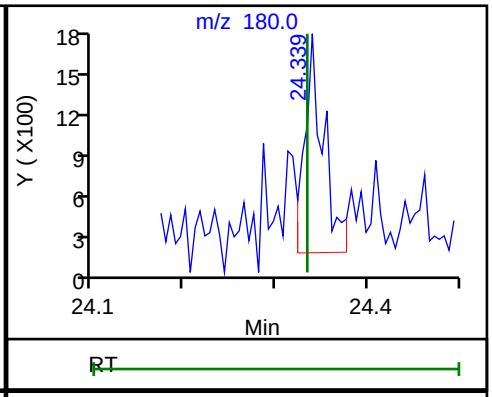
TestAmerica Burlington

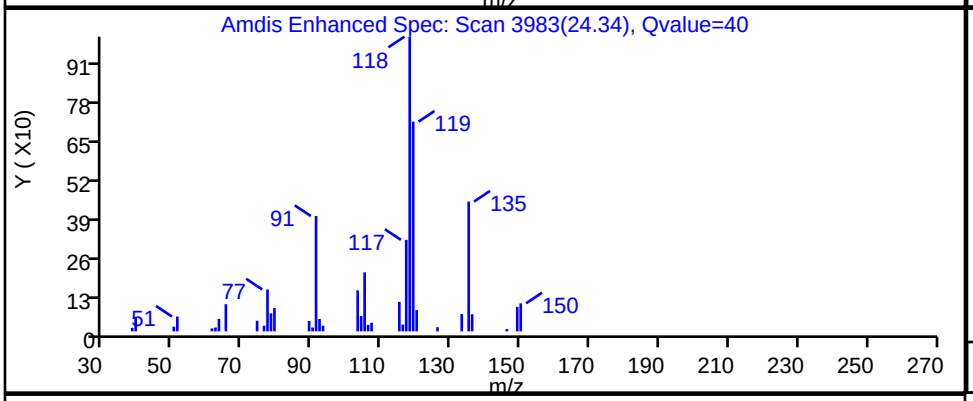
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

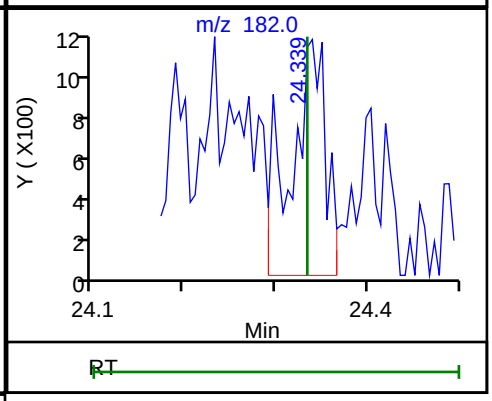
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

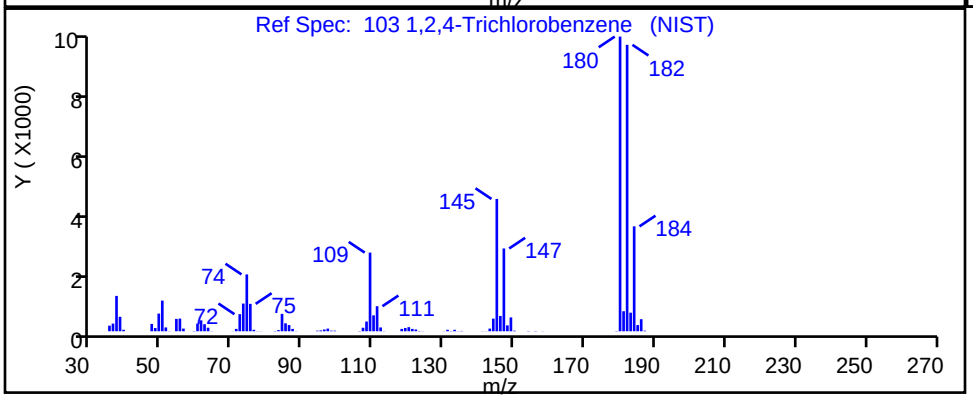
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.34 | 180.00 | 2291 | 0.022303 |
| 24.34 | 182.00 | 2911 | |

Reviewer: guazzonig, 06-Dec-2018 13:49:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

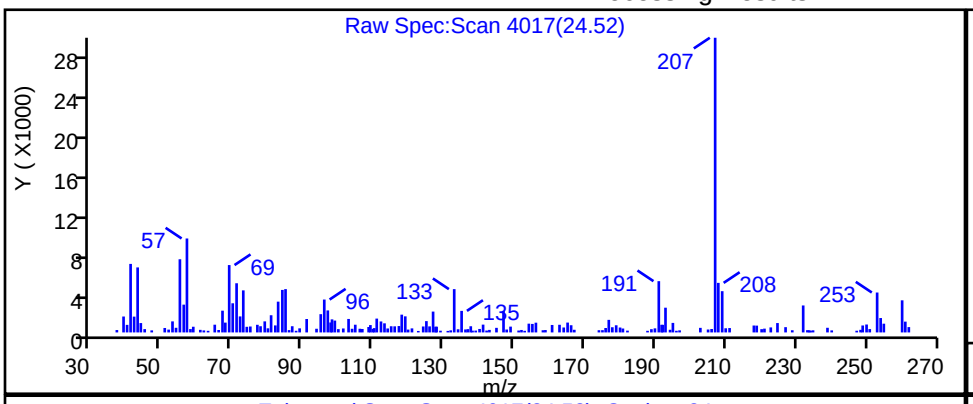
User Disabled Compound Report

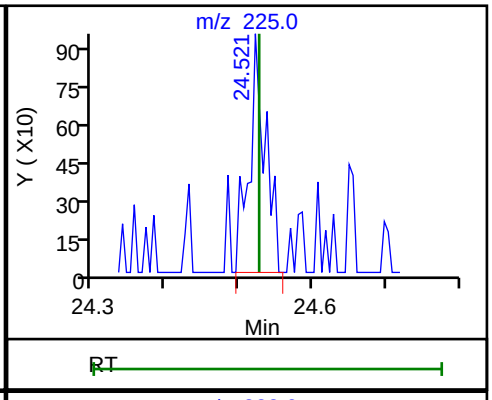
TestAmerica Burlington

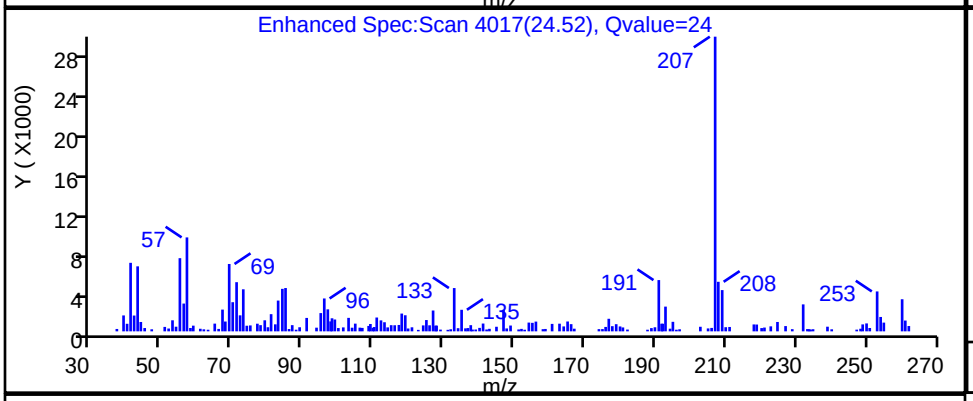
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D | | | | |
| Injection Date: | 06-Dec-2018 10:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-9 | Lab Sample ID: | 200-46353-9 | | |
| Client ID: | MP-3_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 25 | Worklist Smp#: | 25 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

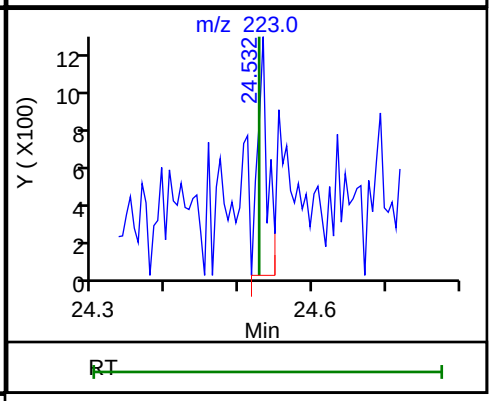
## 104 Hexachlorobutadiene, CAS: 87-68-3

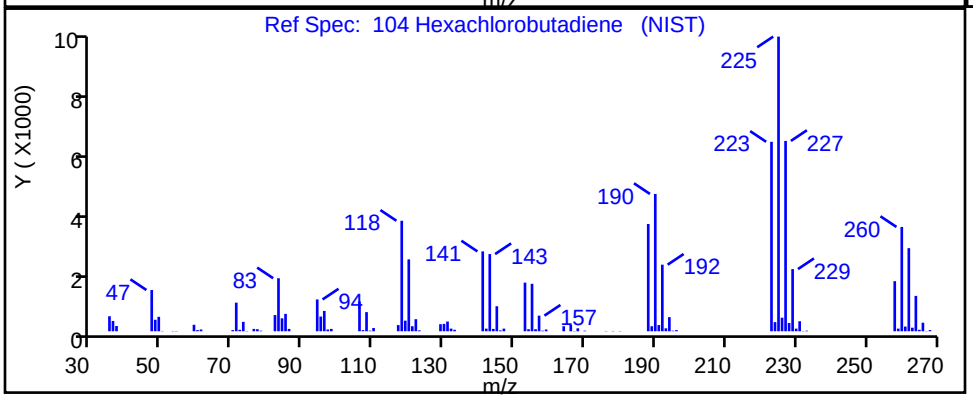
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.52 | 225.00 | 1481 | 0.014493 |
| 24.53 | 223.00 | 1203 | |

Reviewer: bunmaa, 07-Dec-2018 09:45:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.58 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.53 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.54 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 3.6 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.31 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 28 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.2 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 1.0 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.5 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.52 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.079 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.31 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.48 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 1.7 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 2.2 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.32 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.78 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.28 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.97 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.41 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.29 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120  Lab Sample ID: 200-46353-10

Matrix: Air  Lab File ID: 200-33558-012.D

Analysis Method: TO-15  Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.9 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.9 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 8.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.7 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 66 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 3.7 | | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 3.6 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 7.5 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.8 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.50 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 1.4 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.5 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 6.8 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 8.2 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 2.2 | | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 3.2 | | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.2 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 4.2 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 1.8 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 1.4 | | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120  Lab Sample ID: 200-46353-10

Matrix: Air  Lab File ID: 200-33558-012.D

Analysis Method: TO-15  Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D
Lims ID: 200-46353-A-10
Client ID: MP-4_20181120
Sample Type: Client
Inject. Date: 06-Dec-2018 23:23:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033558-012
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 17:05:56 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0315

First Level Reviewer: puangmaleek Date: 07-Dec-2018 17:05:56

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.149 | -0.005 | 95 | 115353 | 0.5775 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | -0.005 | 96 | 44843 | 0.5273 | M |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.347 | | | | ND | U |
| 5 Chloromethane | 50 | 3.449 | 3.460 | -0.010 | 98 | 20911 | 0.5380 | |
| 6 Butane | 43 | 3.598 | 3.600 | -0.006 | 93 | 188217 | 3.60 | |
| 7 Vinyl chloride | 62 | | 3.641 | | | | ND | |
| 8 Butadiene | 54 | | 3.695 | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.685 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 48301 | 0.3060 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 80 | 8251 | 0.0742 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.845 | 5.856 | -0.011 | 99 | 1162043 | 27.9 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 150403 | 1.19 | |
| 24 Isopropyl alcohol | 45 | 6.107 | 6.084 | 0.015 | 99 | 93536 | 2.03 | |
| 25 3-Chloro-1-propene | 41 | | 6.306 | | | | ND | U |
| 27 Methylene Chloride | 49 | 6.551 | 6.546 | -0.006 | 86 | 8178 | 0.1851 | |
| 28 2-Methyl-2-propanol | 59 | 6.787 | 6.758 | 0.021 | 96 | 91921 | 1.31 | |
| 29 Methyl tert-butyl ether | 73 | 6.969 | 6.937 | 0.032 | 58 | 5112 | 0.0537 | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.947 | | | | ND | U |
| 33 Hexane | 57 | 7.284 | 7.290 | -0.006 | 91 | 48779 | 1.03 | |
| 34 1,1-Dichloroethane | 63 | | 7.723 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.729 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.820 | 0.000 | 99 | 37967 | 2.54 | |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.157 | -0.011 | 75 | 535439 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.205 | | | | ND | U |
| 42 Chloroform | 83 | 9.269 | 9.264 | 0.000 | 90 | 9513 | 0.0851 | |
| 43 Cyclohexane | 84 | 9.526 | 9.526 | -0.005 | 96 | 25500 | 0.5163 | |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | U |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.767 | 0.000 | 72 | 10109 | 0.0791 | |
| 46 Isooctane | 57 | 10.189 | 10.195 | -0.011 | 87 | 50657 | 0.3101 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 47 Benzene | 78 | 10.211 | 10.211 | -0.005 | 95 | 55162 | 0.4814 | |
| 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | |
| 49 n-Heptane | 43 | 10.558 | 10.537 | -0.011 | 92 | 97420 | 1.65 | |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2151718 | 10.0 | |
| 53 Trichloroethene | 95 | | 11.484 | | | | ND | U |
| 54 1,2-Dichloropropane | 63 | | 12.019 | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.201 | | | | ND | |
| 56 1,4-Dioxane | 88 | 12.313 | 12.275 | 0.032 | 68 | 3842 | 0.1824 | |
| 58 Dichlorobromomethane | 83 | | 12.554 | | | | ND | U |
| 60 cis-1,3-Dichloropropene | 75 | | 13.474 | | | | ND | U |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | U |
| 65 Toluene | 92 | 14.057 | 14.063 | -0.006 | 94 | 188368 | 2.19 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.656 | | | | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.026 | | | | ND | |
| 68 Tetrachloroethene | 166 | 15.132 | 15.143 | -0.006 | 94 | 32739 | 0.3172 | |
| 69 2-Hexanone | 43 | 15.523 | 15.523 | 0.016 | 35 | 59031 | 0.7792 | Ma |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| 72 Ethylene Dibromide | 107 | | 16.042 | | | | ND | U |
| * 74 Chlorobenzene-d5 | 117 | 16.951 | 16.957 | -0.006 | 84 | 2127975 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| 76 Ethylbenzene | 91 | 17.176 | 17.176 | -0.005 | 95 | 54134 | 0.2789 | |
| 78 m-Xylene & p-Xylene | 106 | 17.433 | 17.438 | -0.005 | 0 | 76211 | 0.9686 | |
| 79 o-Xylene | 106 | 18.289 | 18.289 | 0.006 | 97 | 30665 | 0.4101 | M |
| 80 Styrene | 104 | 18.342 | 18.342 | 0.000 | 39 | 8709 | 0.0761 | M |
| 81 Bromoform | 173 | | 18.781 | | | | ND | U |
| 82 Isopropylbenzene | 105 | | 19.043 | | | | ND | U |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.011 | 95 | 18141 | 0.0697 | M |
| 89 2-Chlorotoluene | 91 | | 20.049 | | | | ND | U |
| 88 4-Ethyltoluene | 105 | 20.054 | 20.065 | 0.000 | 52 | 15052 | 0.0679 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.172 | 0.000 | 92 | 17765 | 0.0937 | |
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.798 | 0.000 | 94 | 53636 | 0.2867 | |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| 95 4-Isopropyltoluene | 119 | 21.258 | 21.263 | -0.005 | 53 | 11244 | 0.0499 | |
| 96 1,3-Dichlorobenzene | 146 | | 21.269 | | | | ND | U |
| 97 1,4-Dichlorobenzene | 146 | | 21.413 | | | | ND | U |
| 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.846 | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | | 21.948 | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| 104 Hexachlorobutadiene | 225 | | 24.527 | | | | ND | U |
| 105 Naphthalene | 128 | 24.767 | 24.783 | -0.006 | 26 | 6673 | 0.0329 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

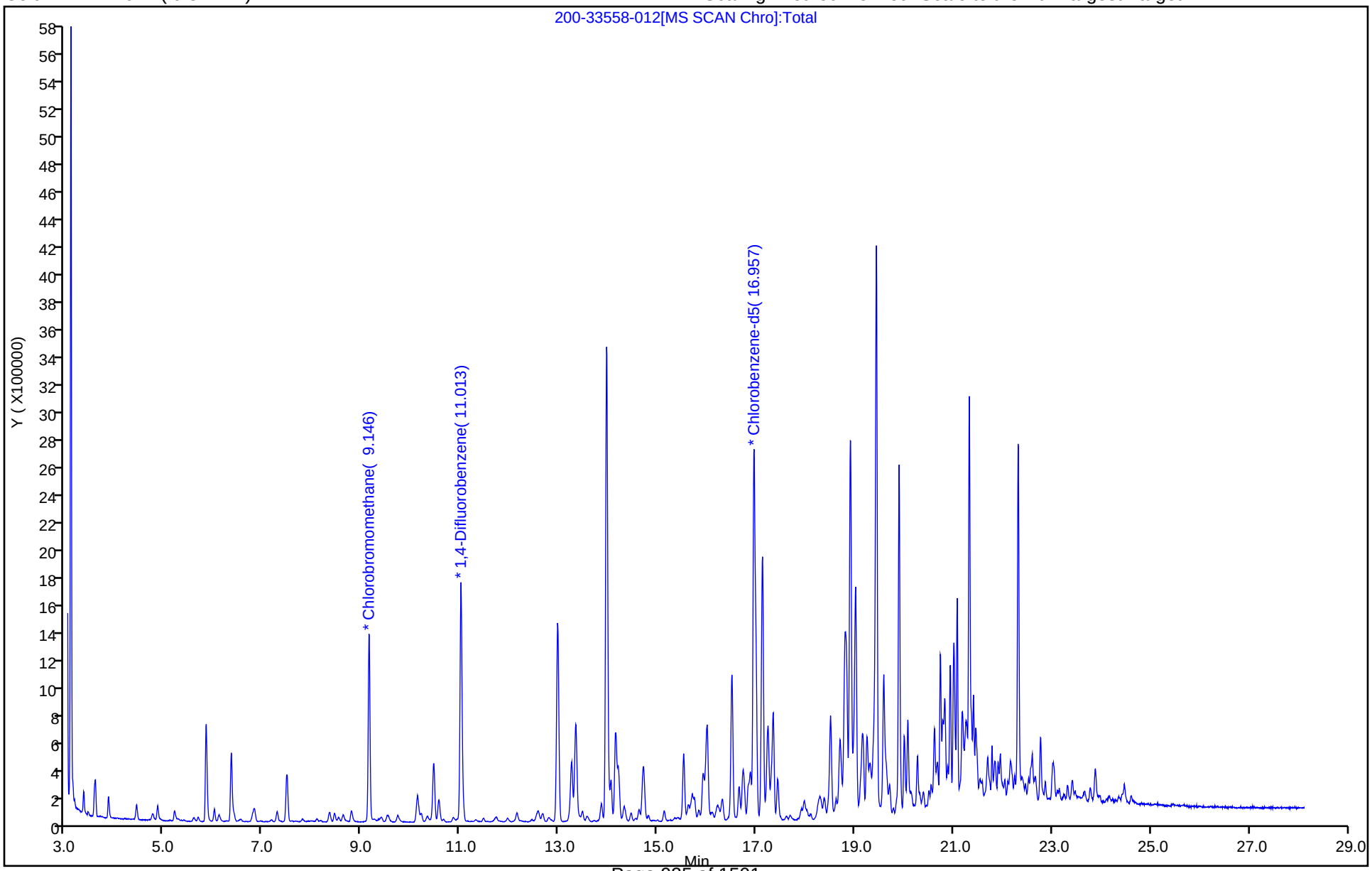
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | Worklist Smp#: | 12 |
| Client ID: | MP-4_20181120 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 12 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



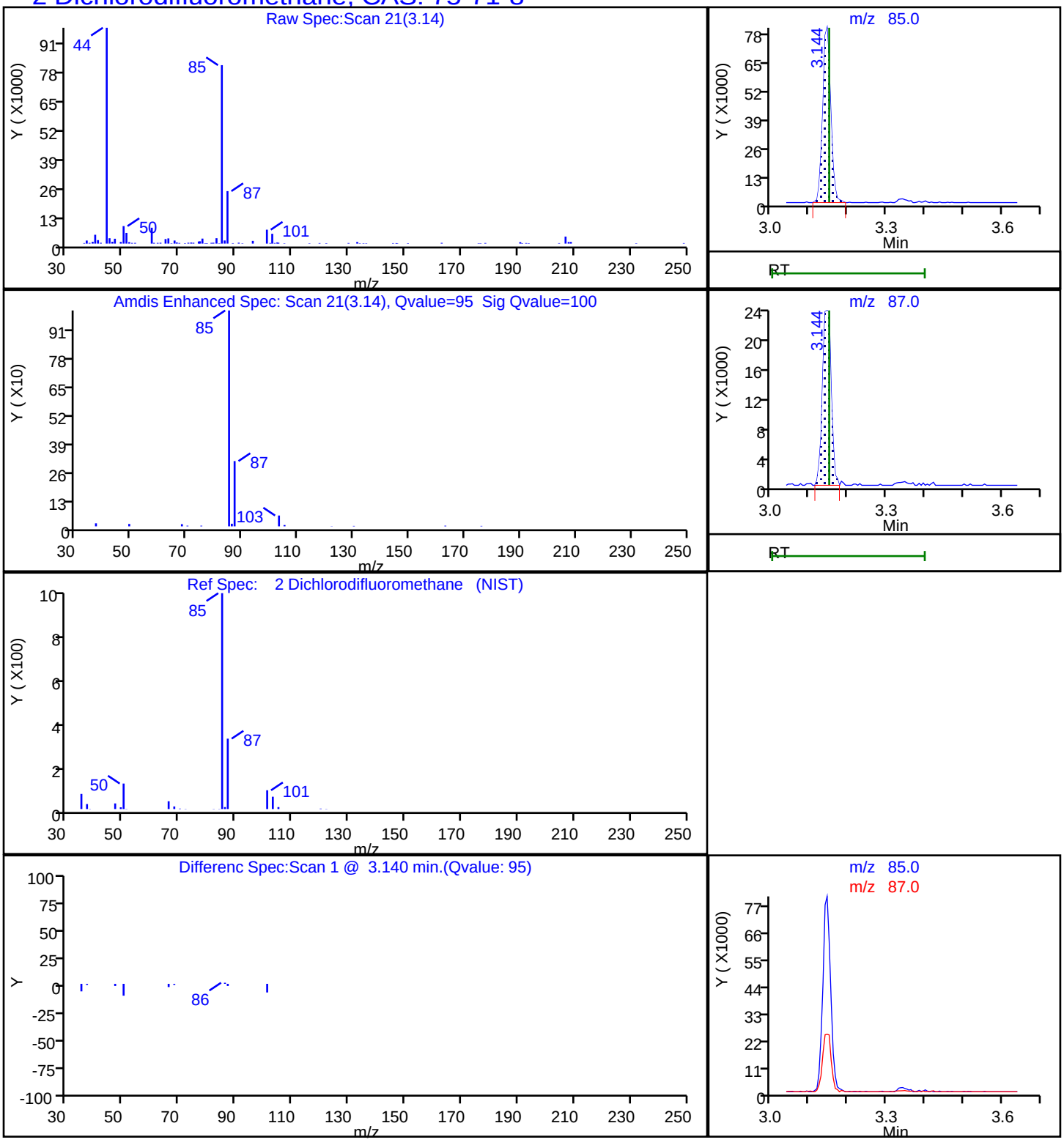
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 2 Dichlorodifluoromethane, CAS: 75-71-8



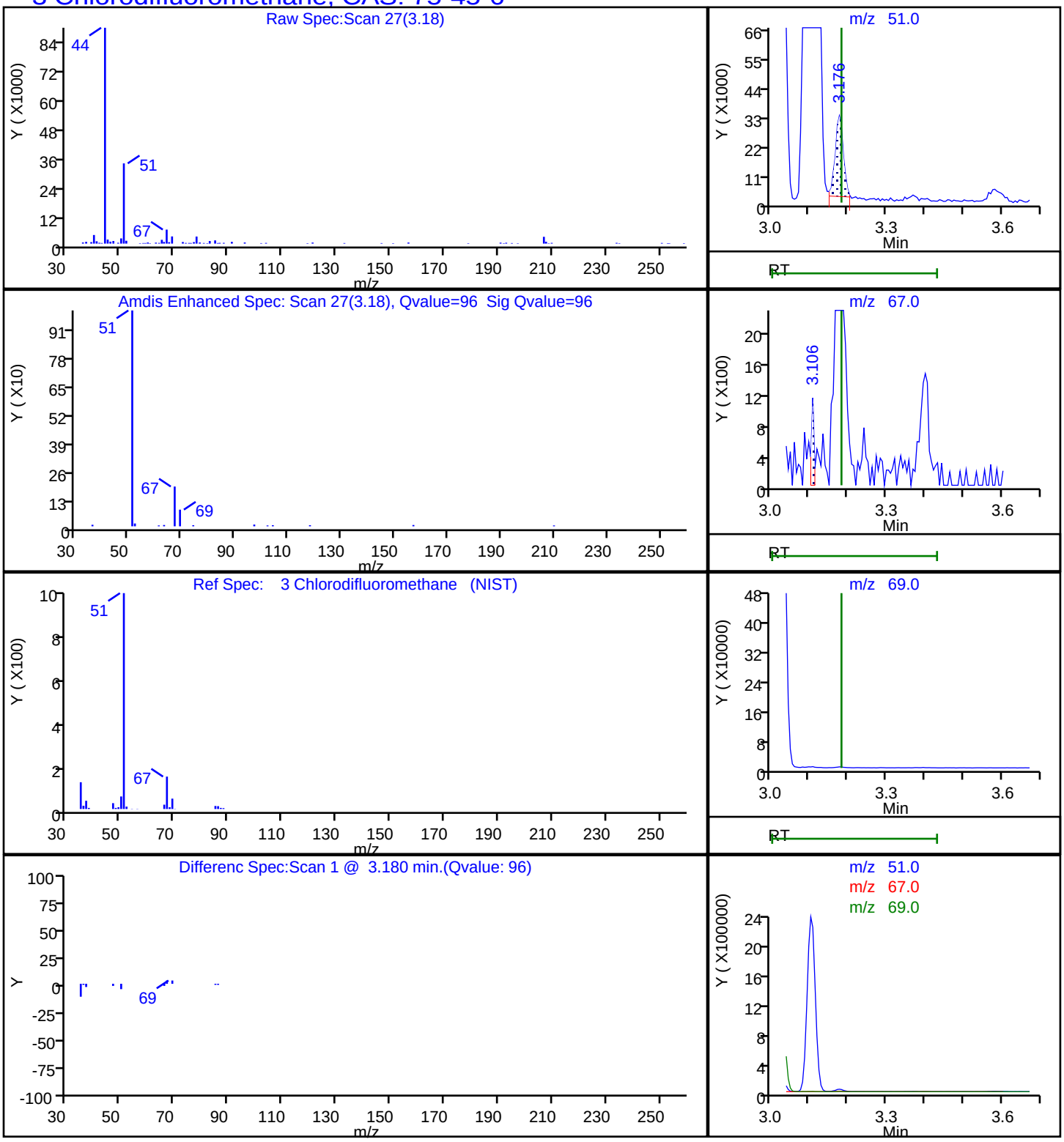
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6



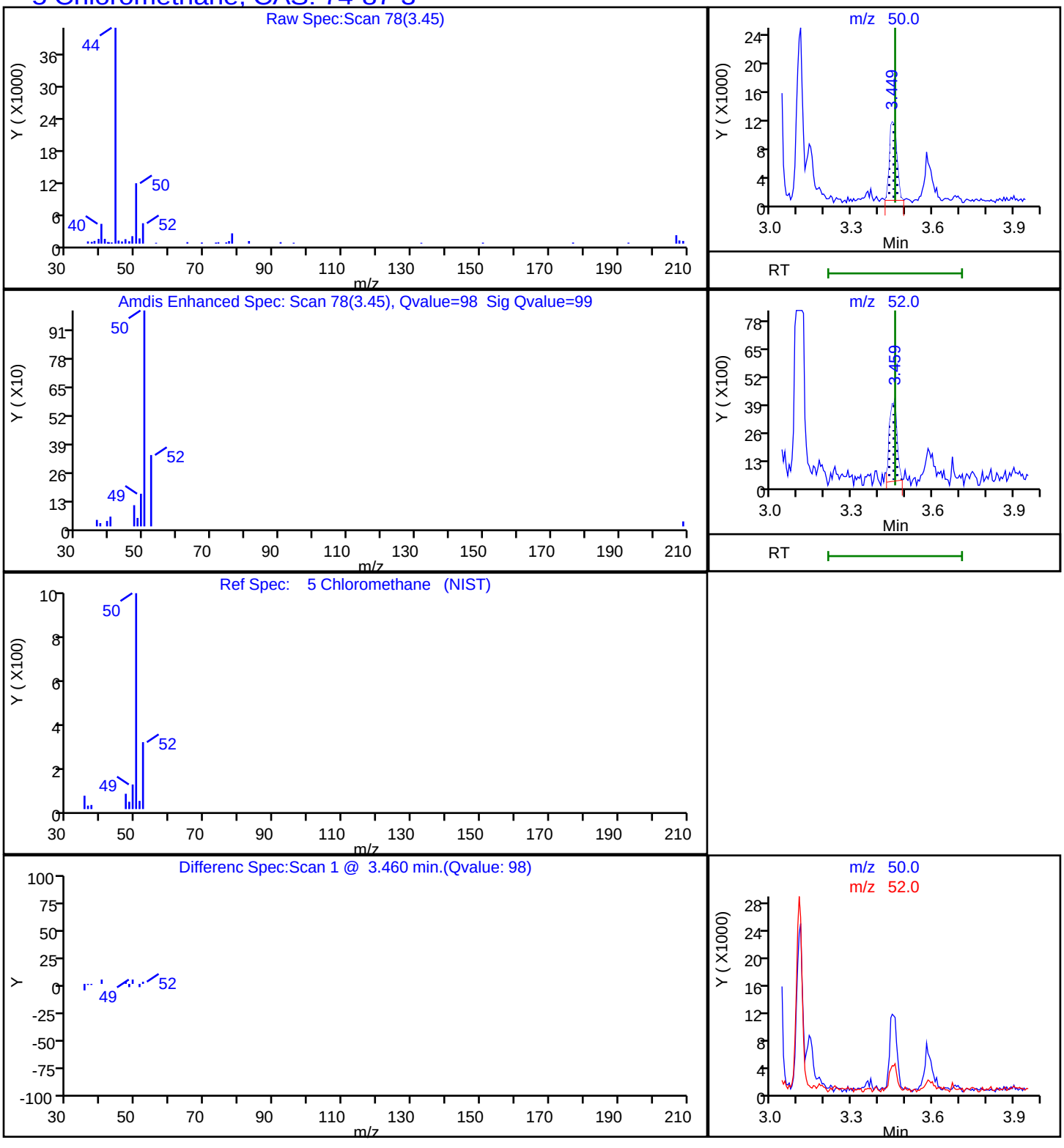
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 5 Chloromethane, CAS: 74-87-3



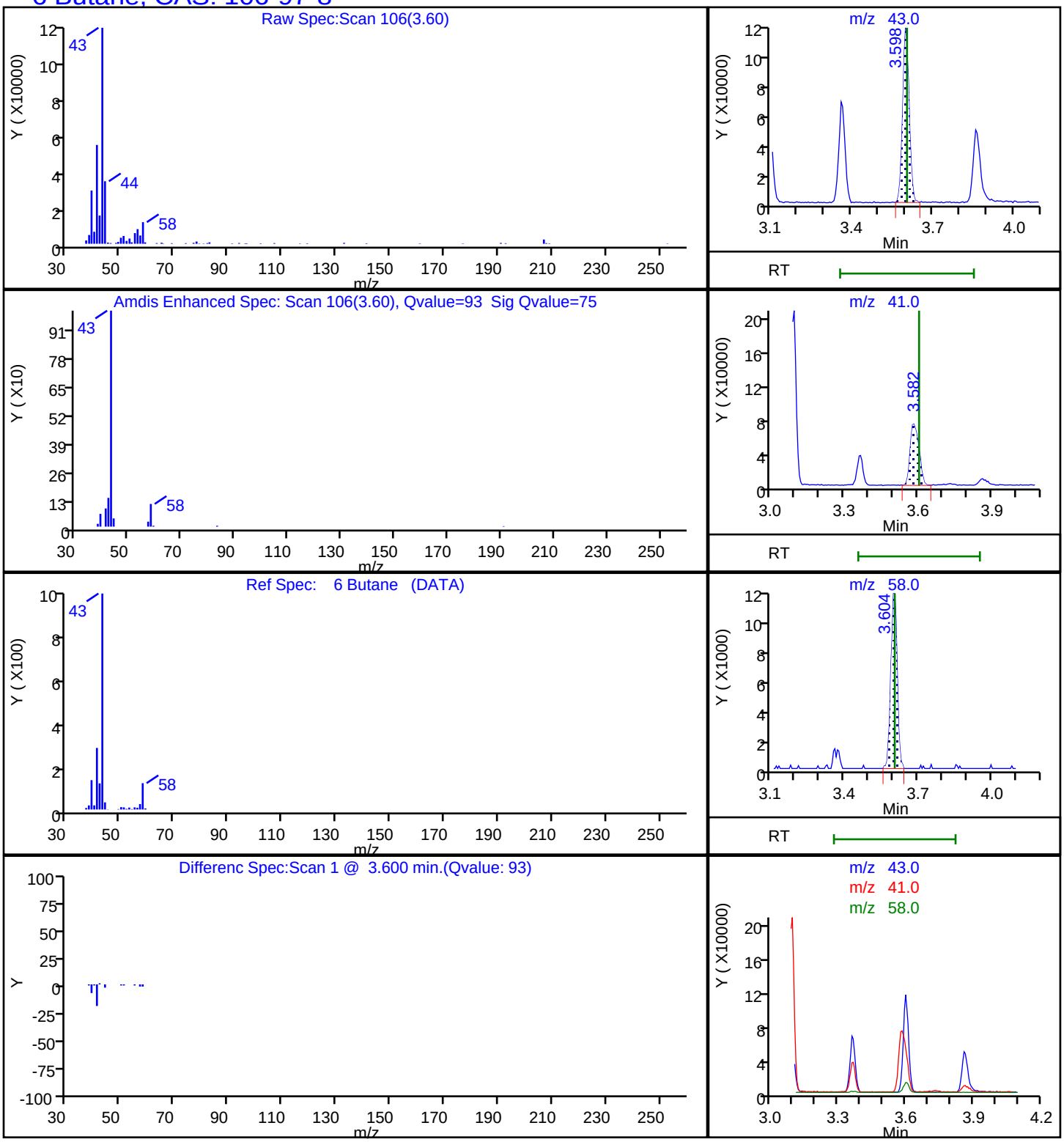
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



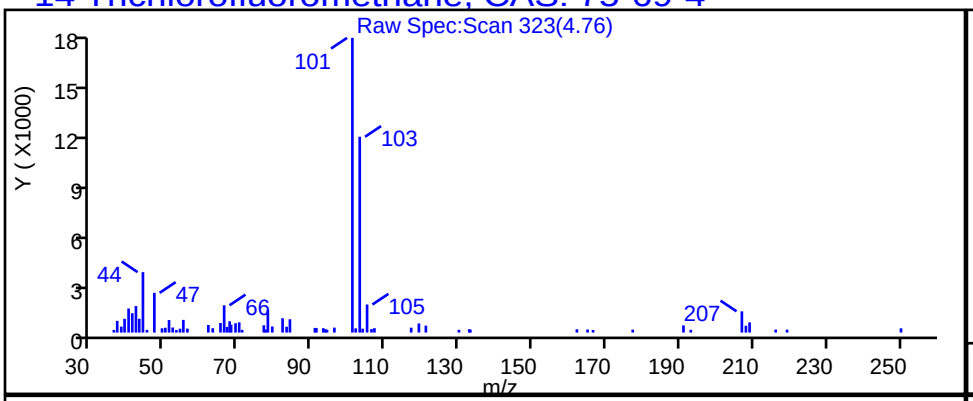
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

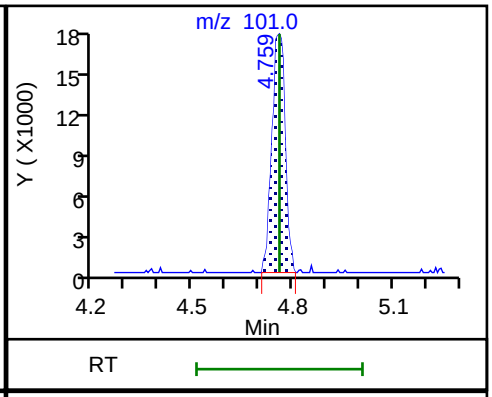
TestAmerica Burlington

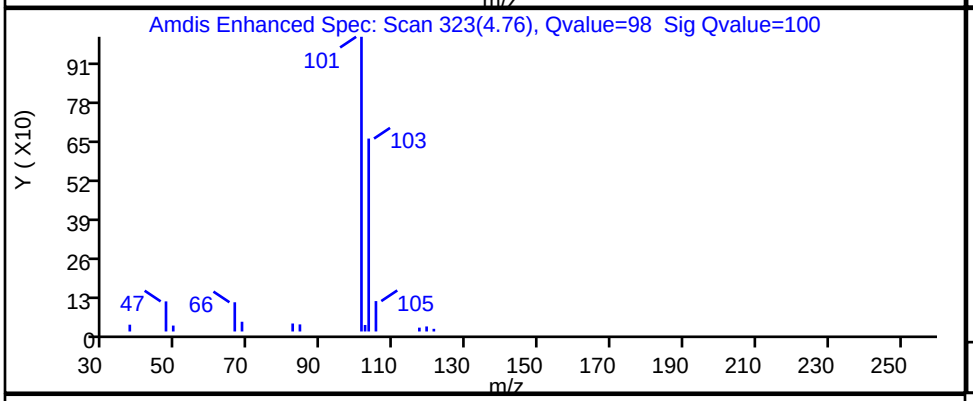
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

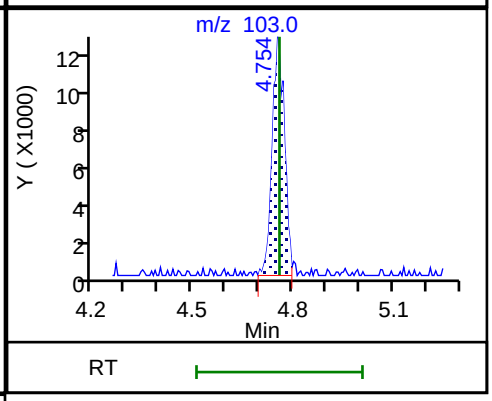
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

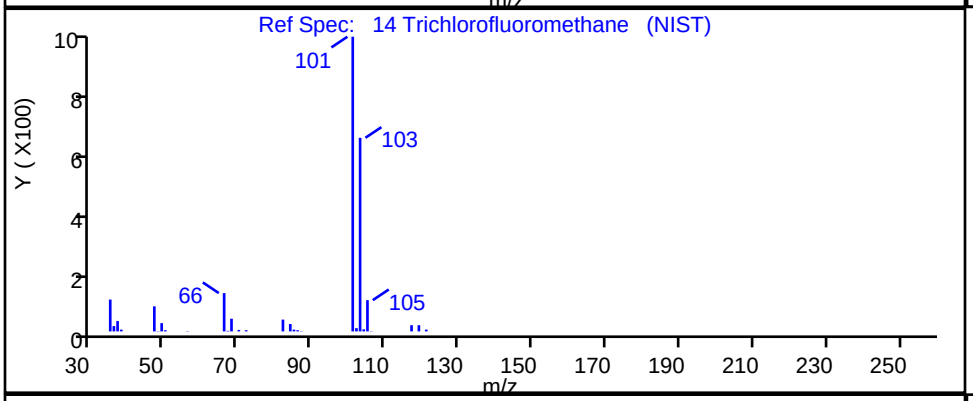
## 14 Trichlorofluoromethane, CAS: 75-69-4

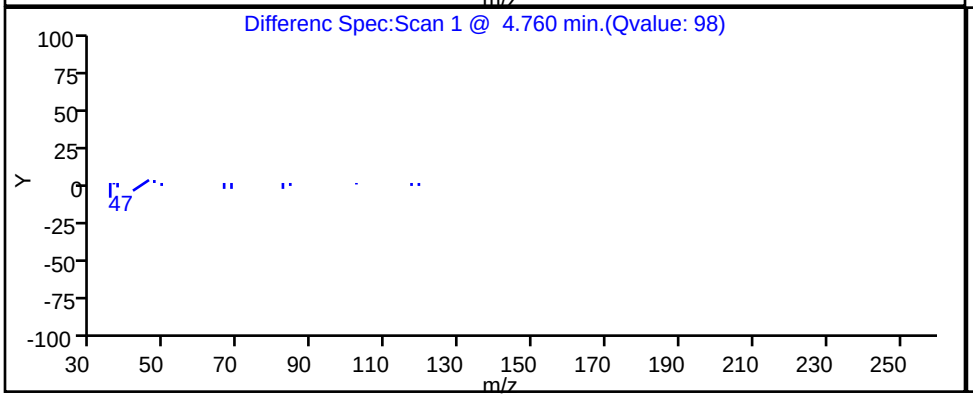


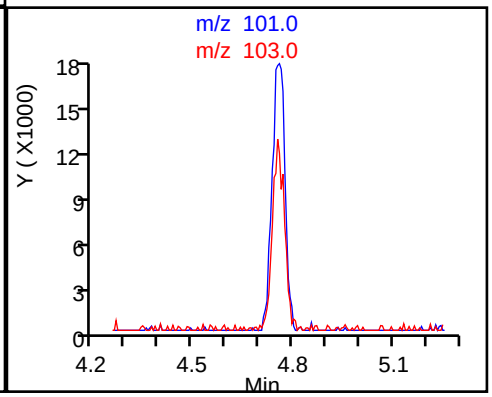



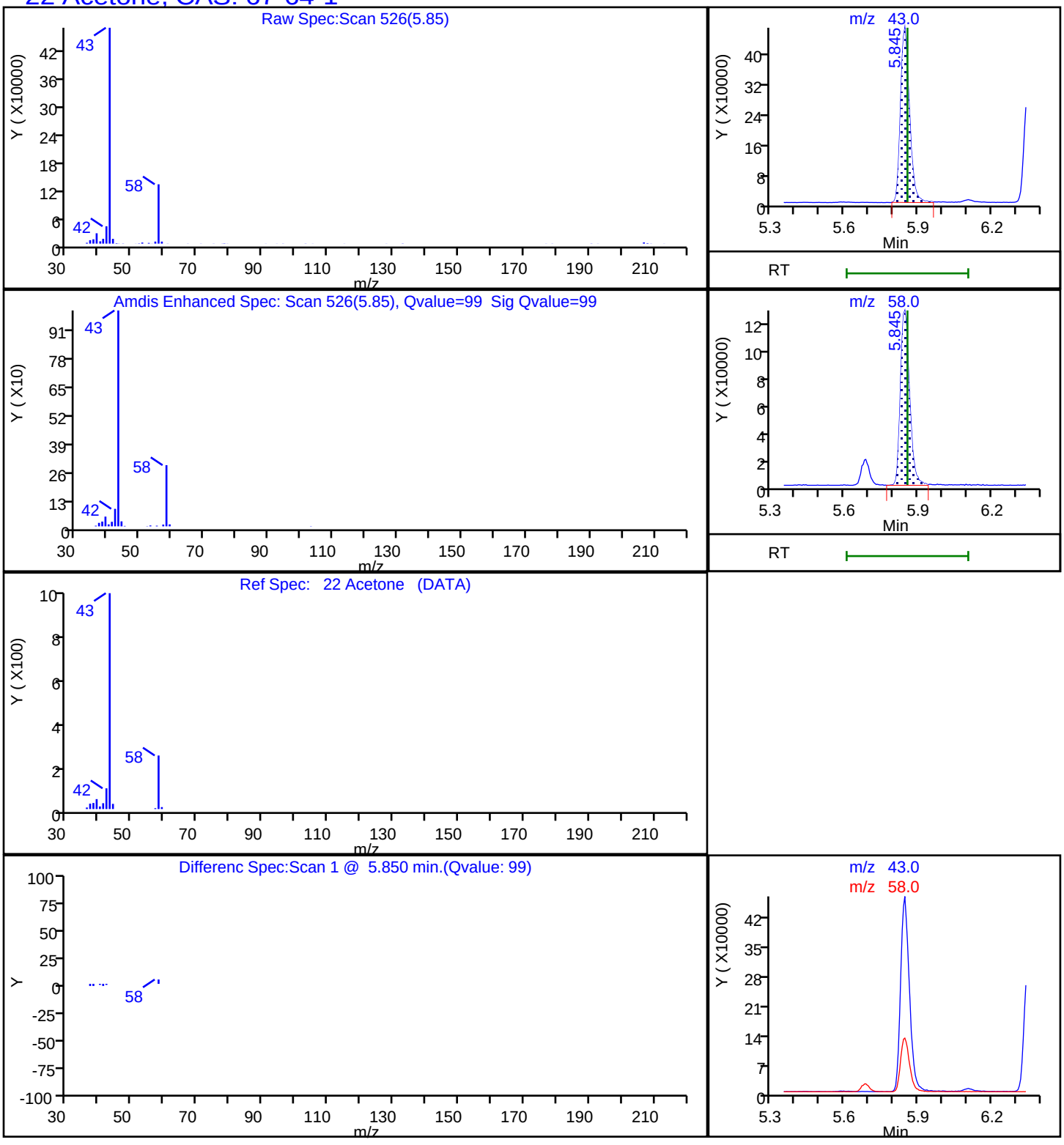
Report Date: 07-Dec-2018 17:05:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 22 Acetone, CAS: 67-64-1



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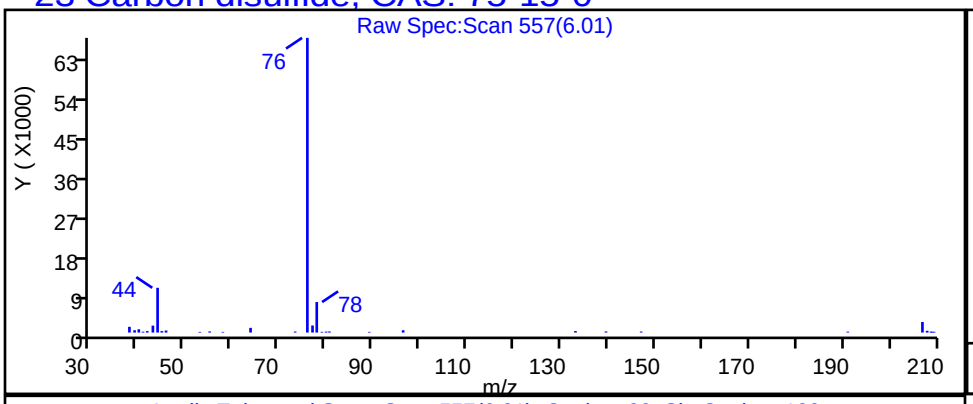
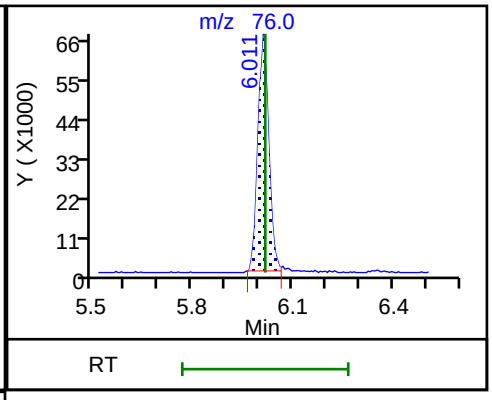
TestAmerica Burlington

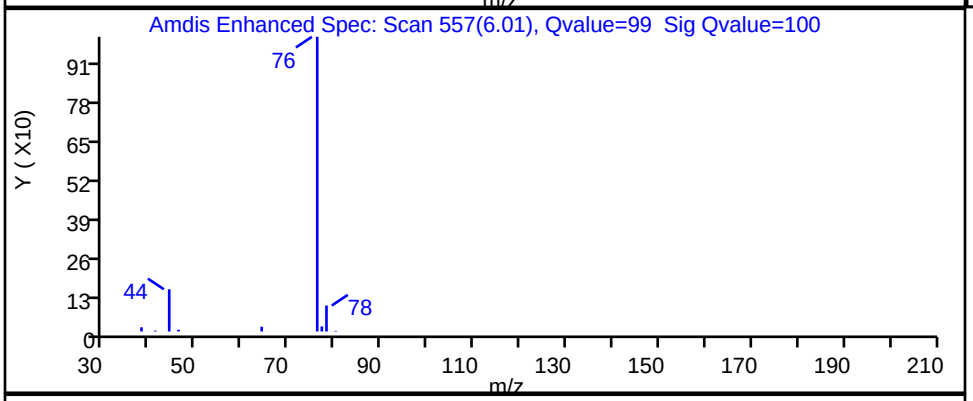
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

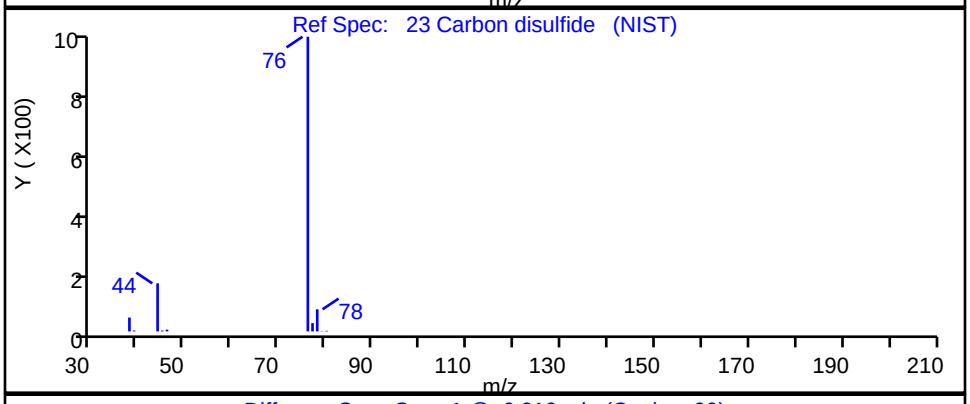
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

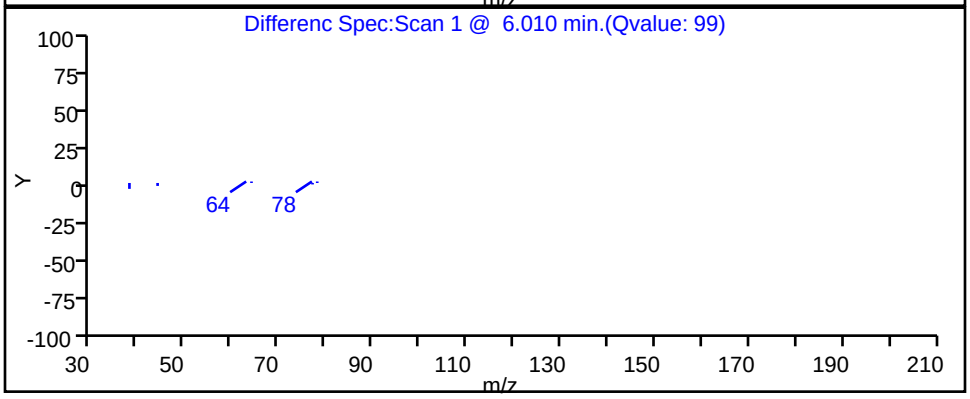
## 23 Carbon disulfide, CAS: 75-15-0



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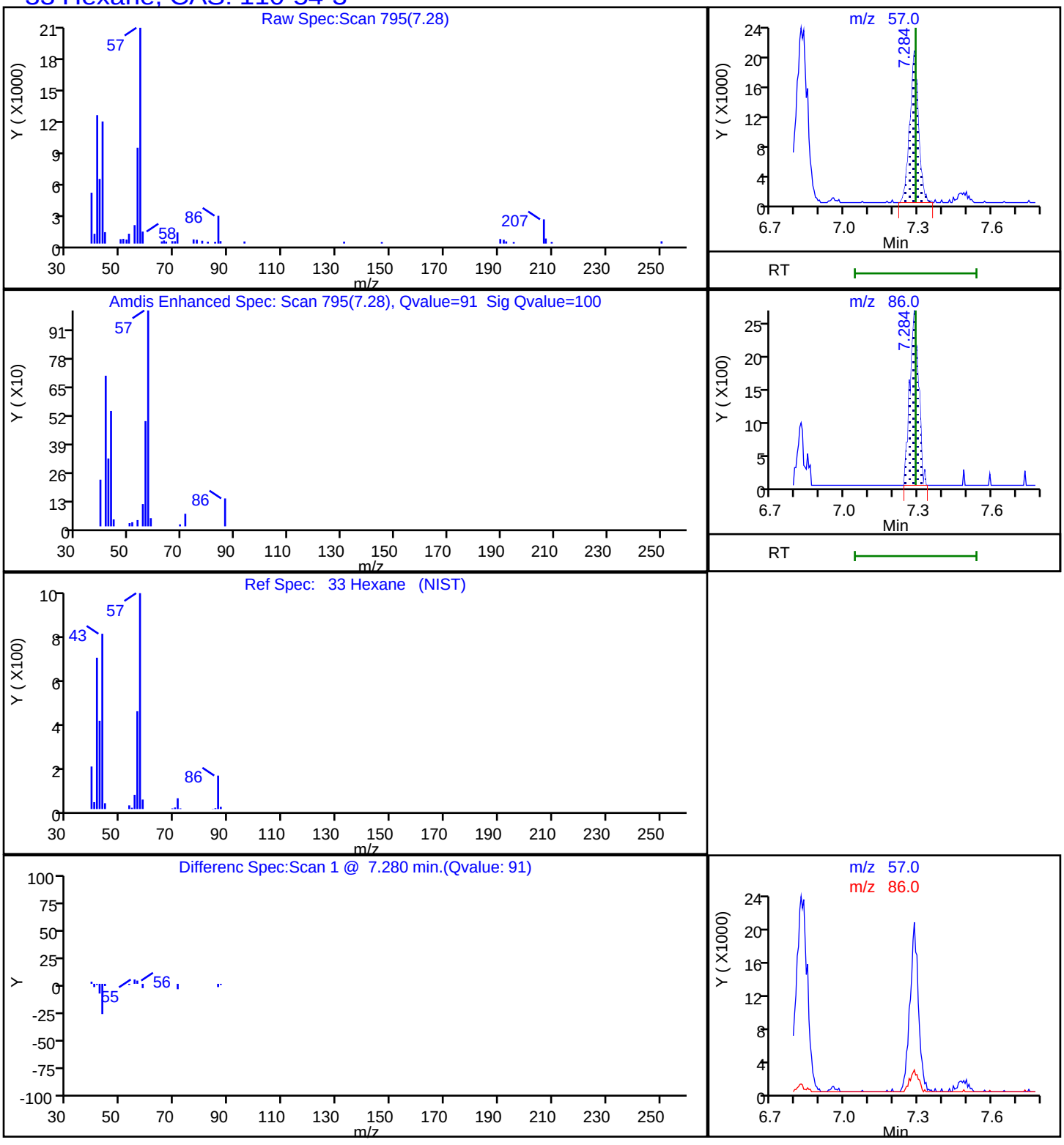
TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



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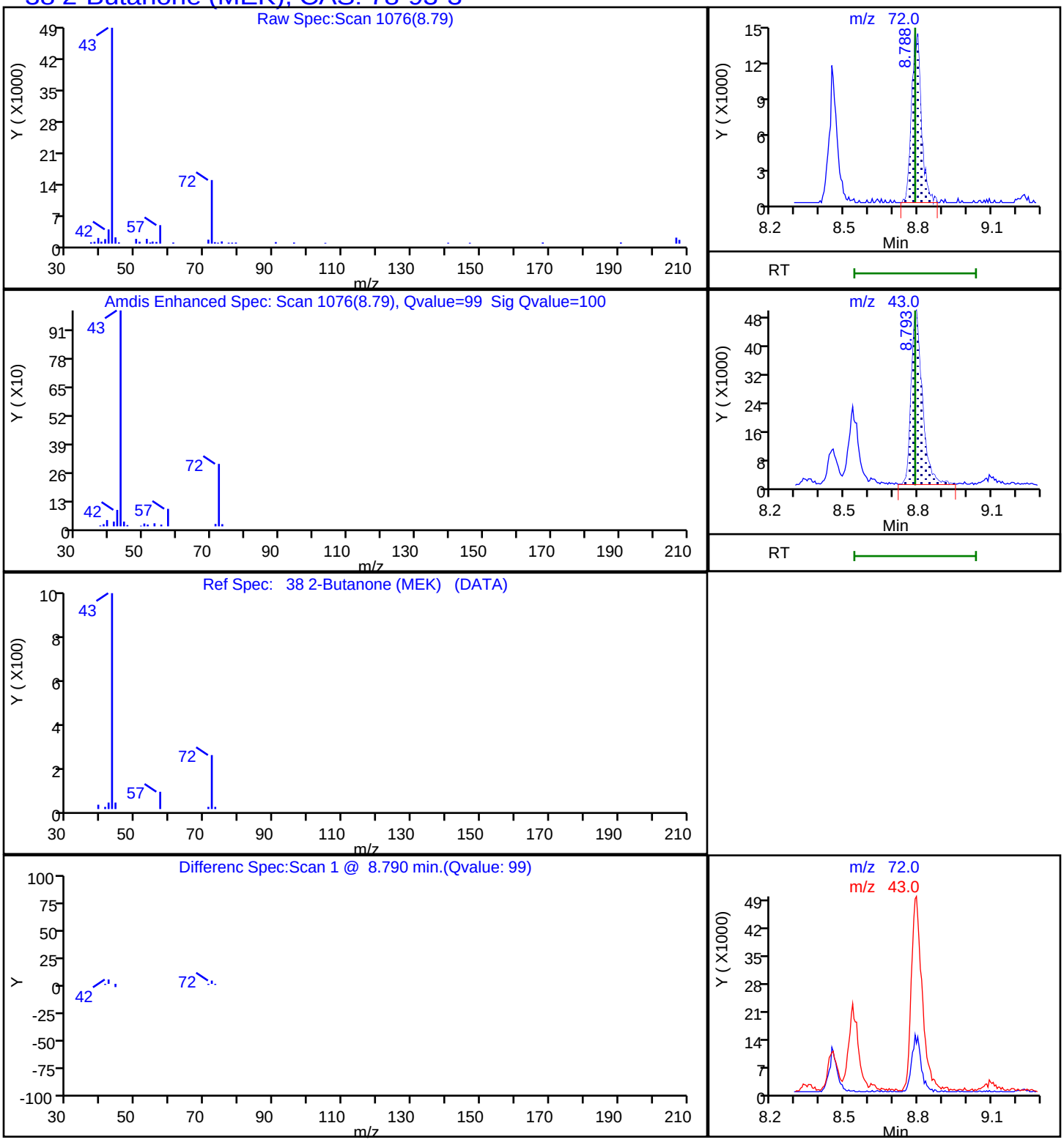
TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 38 2-Butanone (MEK), CAS: 78-93-3



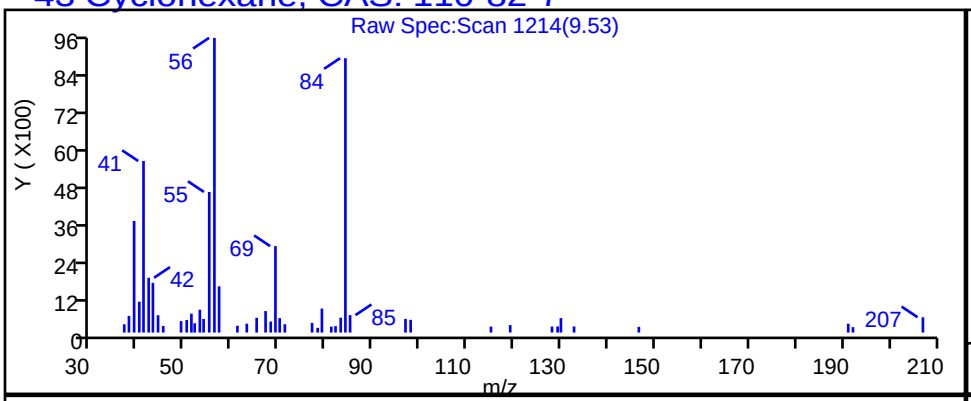
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

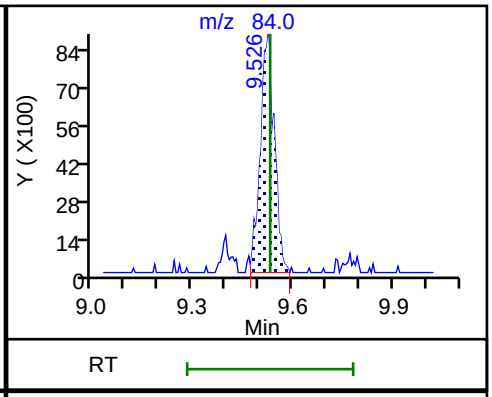
TestAmerica Burlington

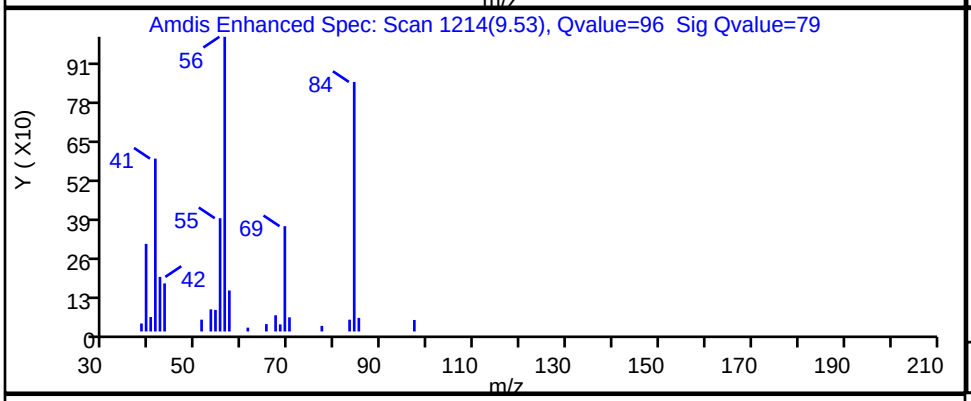
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

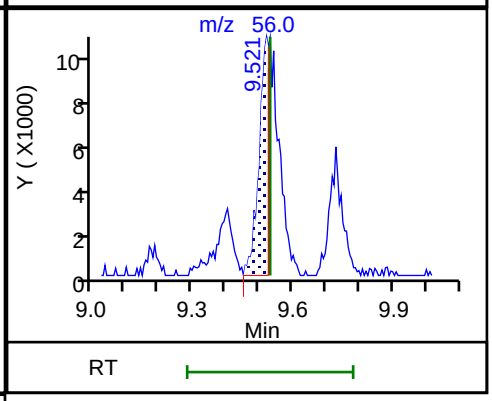
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

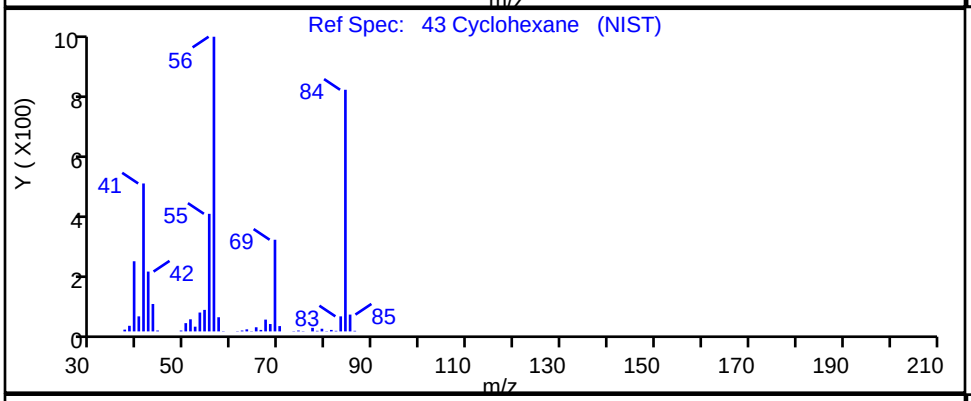
## 43 Cyclohexane, CAS: 110-82-7

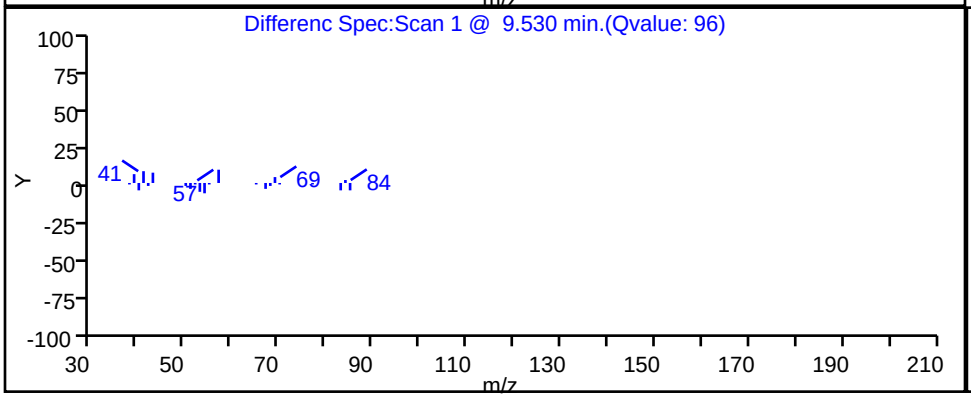


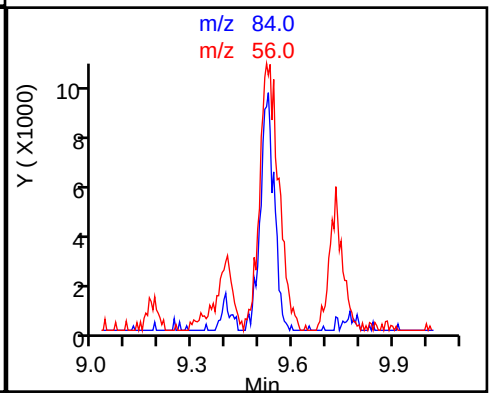



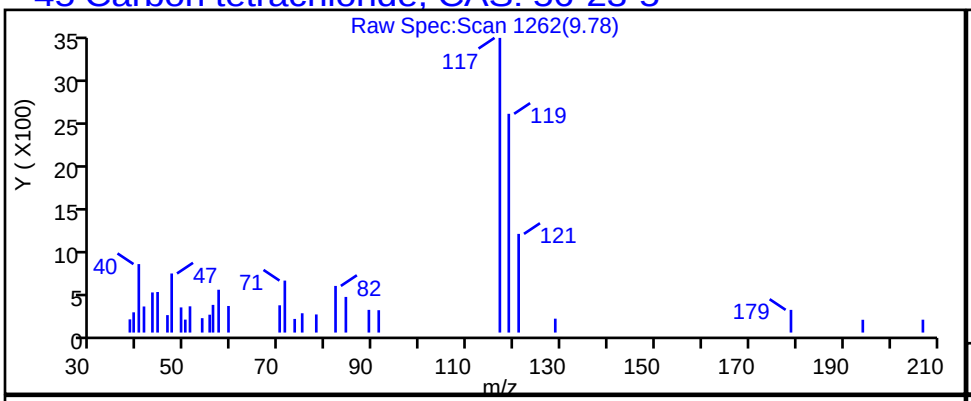
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

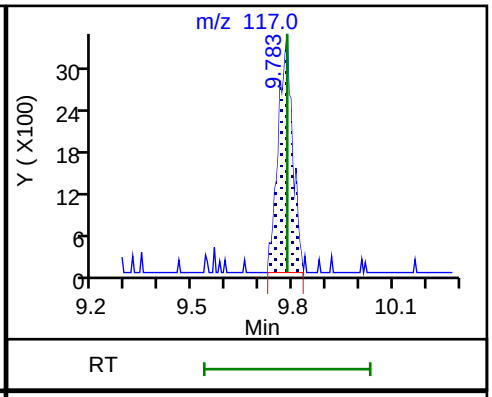
TestAmerica Burlington

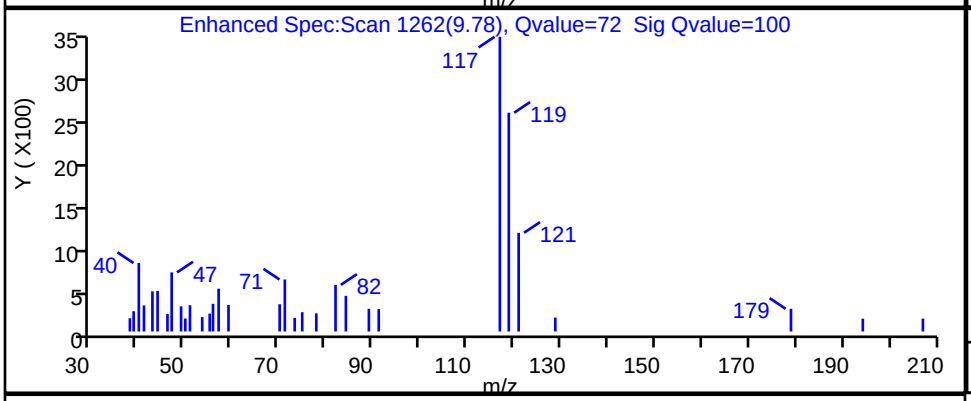
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

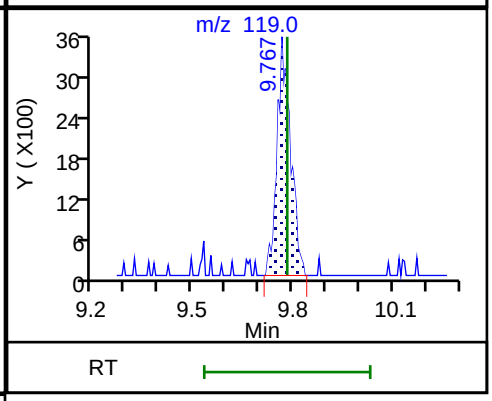
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

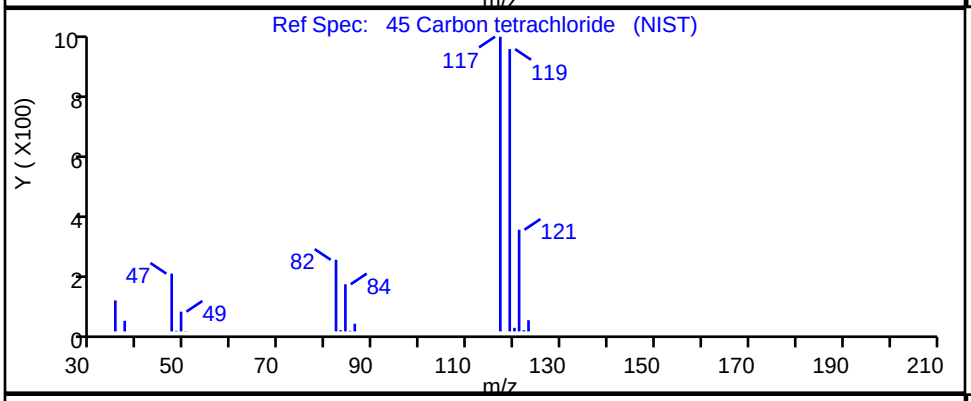
## 45 Carbon tetrachloride, CAS: 56-23-5

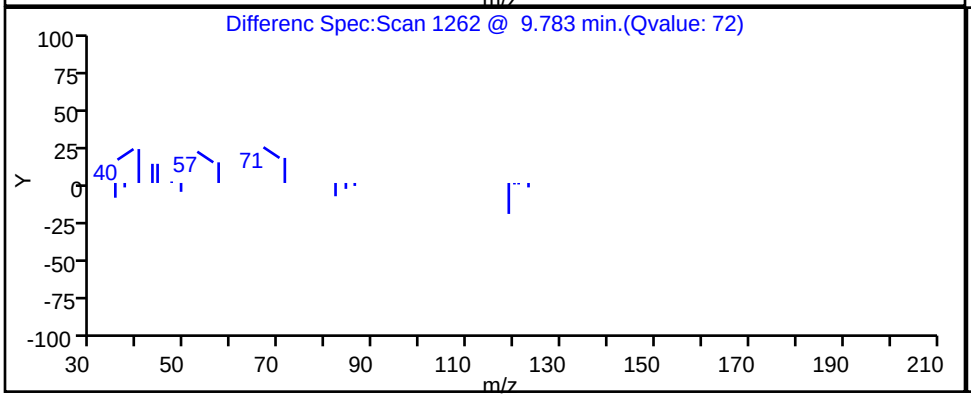


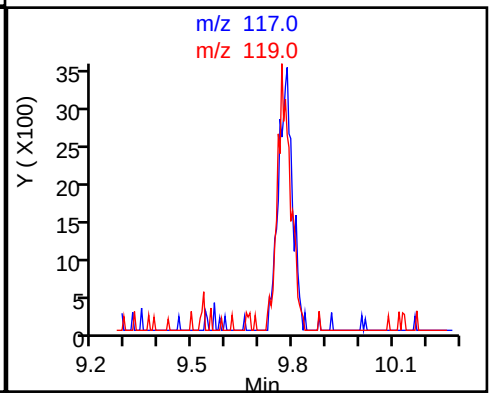



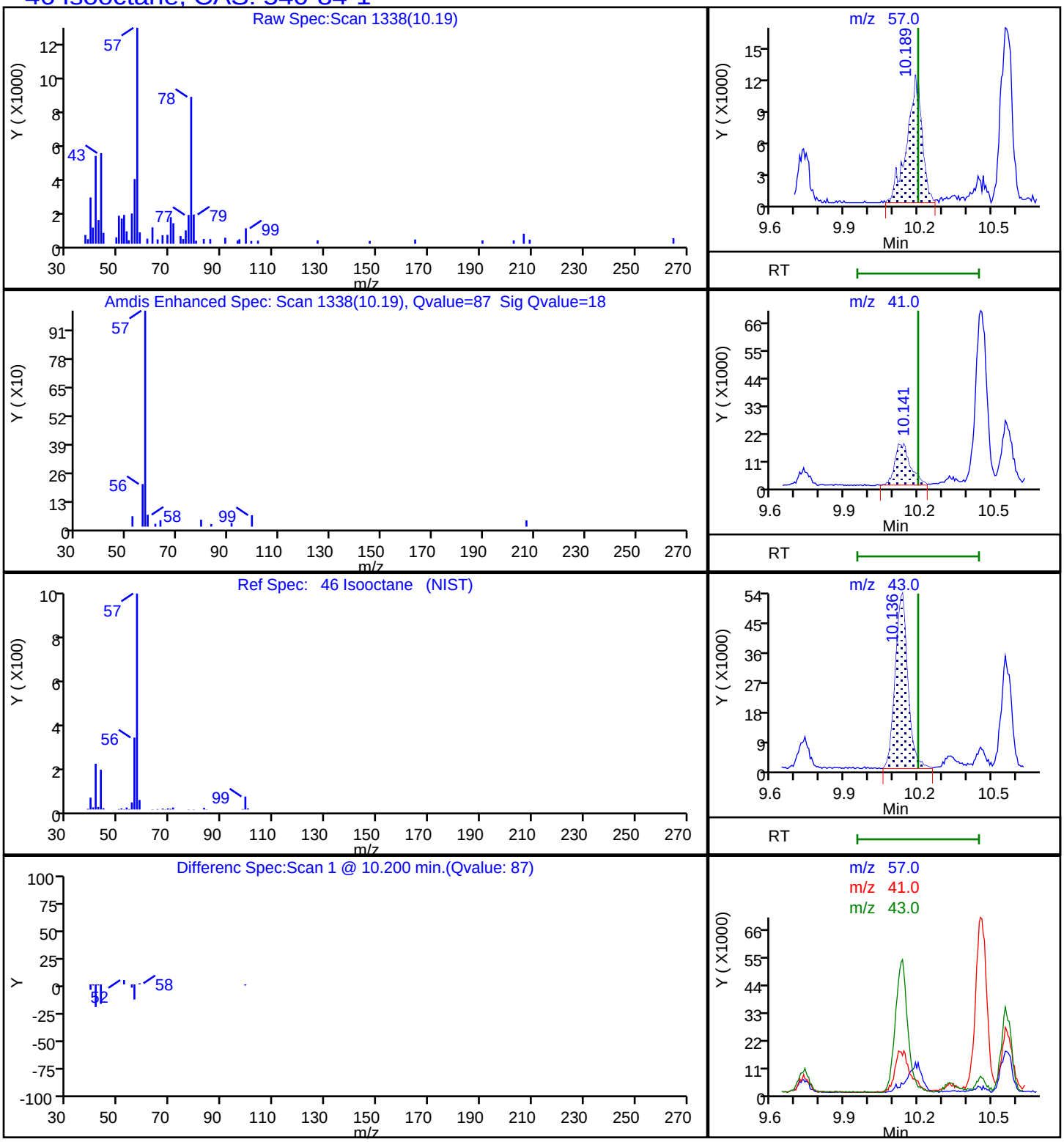
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1



Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
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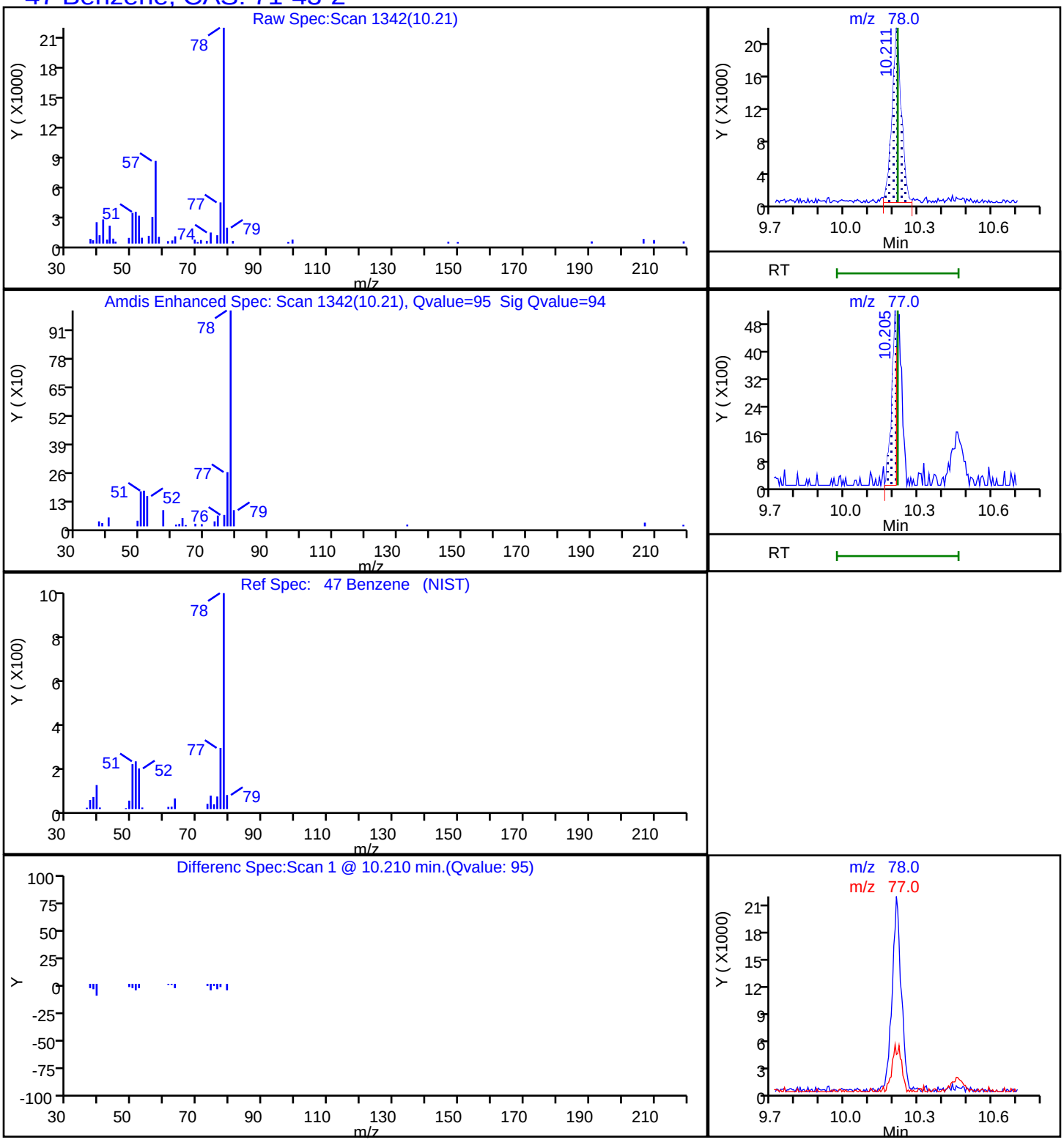
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



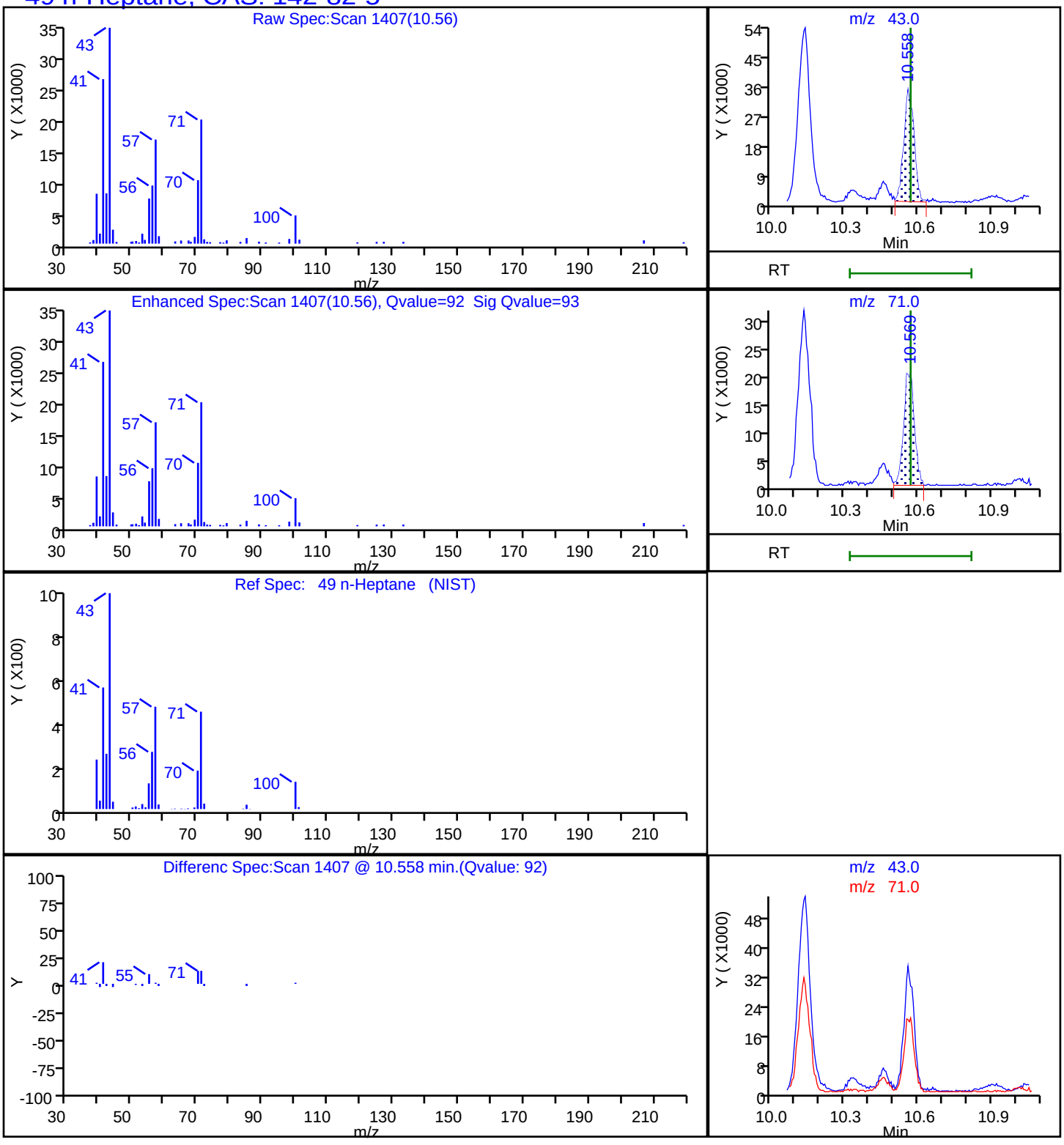
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



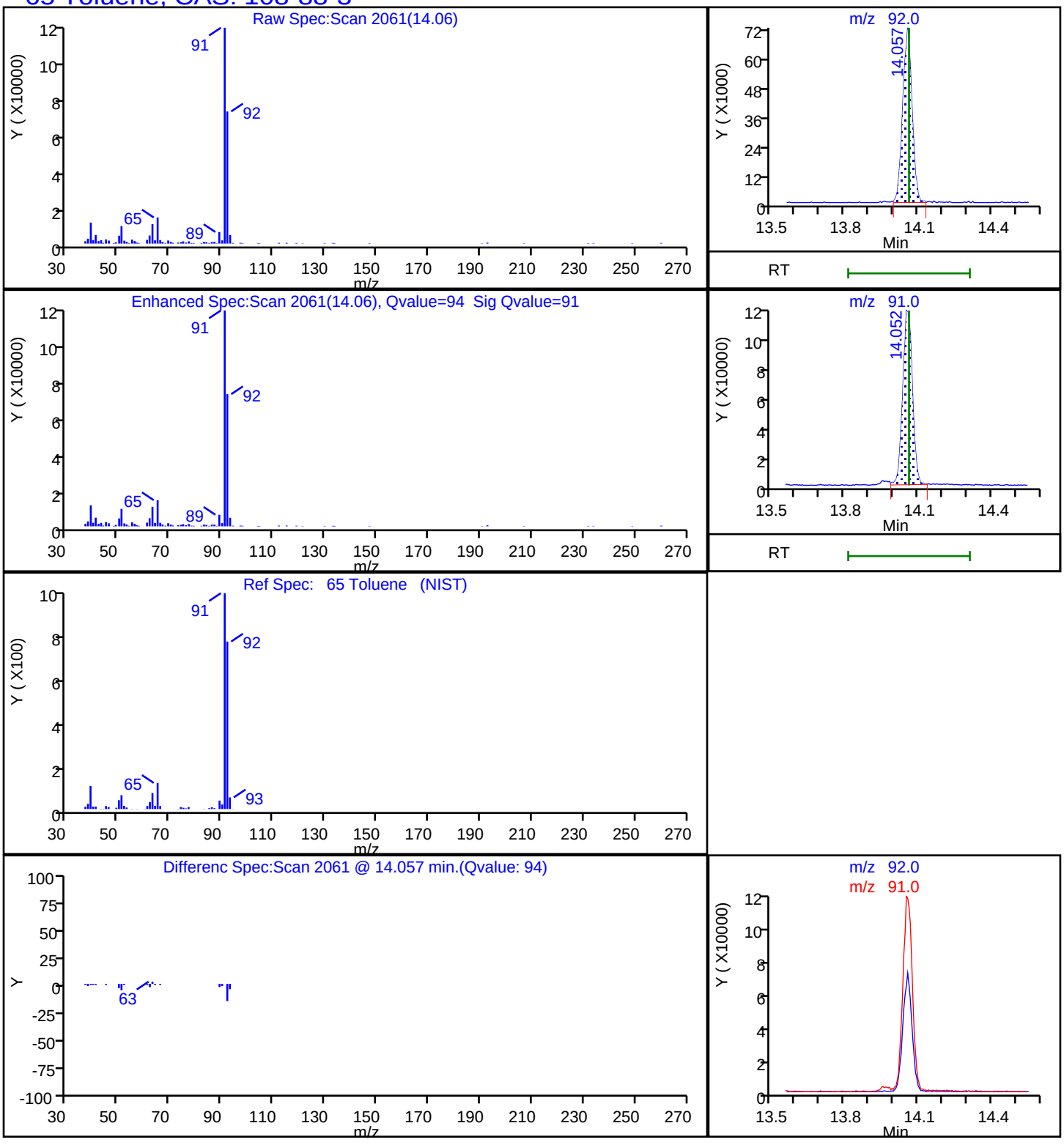
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
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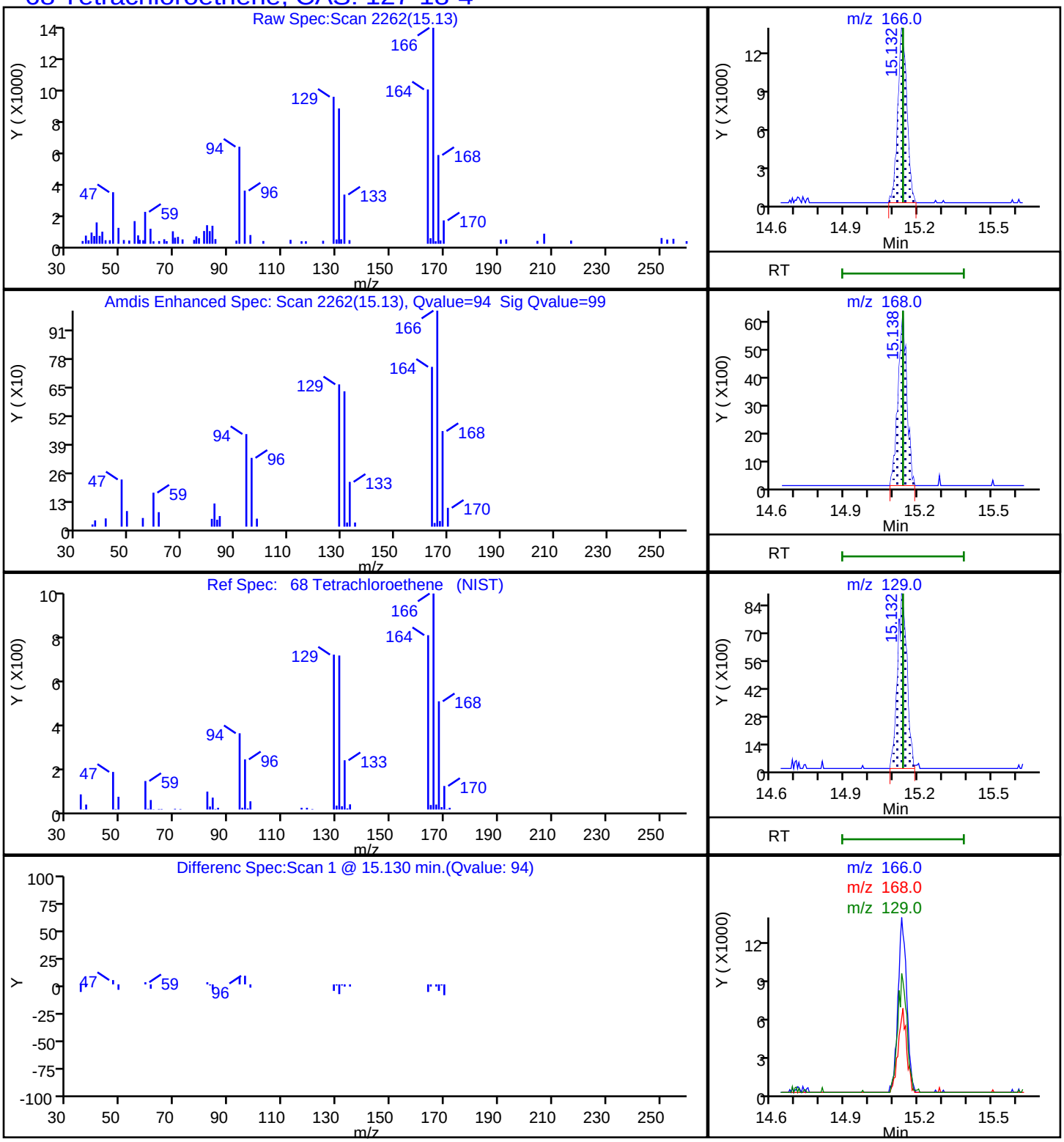
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4



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TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
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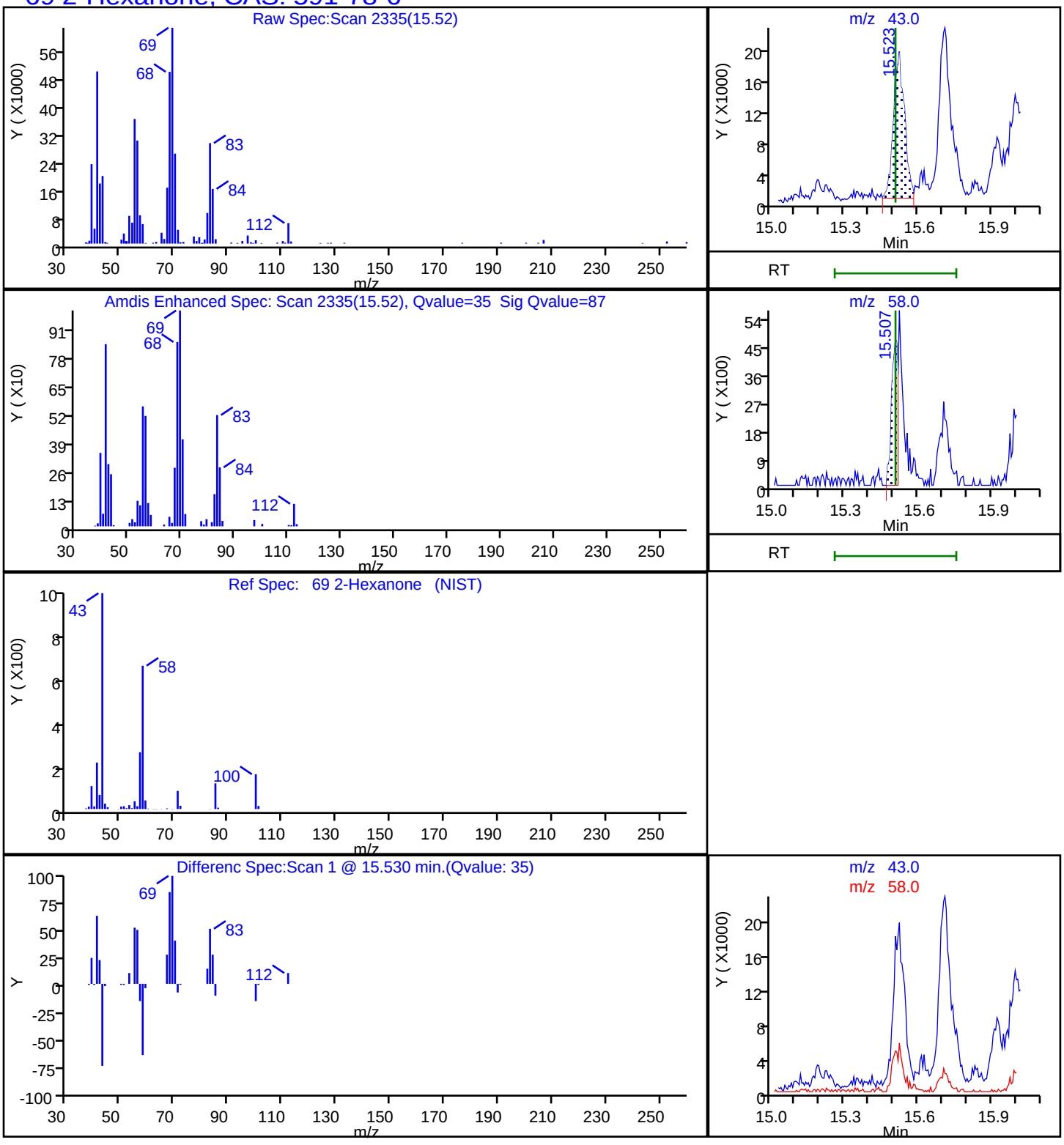
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 69 2-Hexanone, CAS: 591-78-6



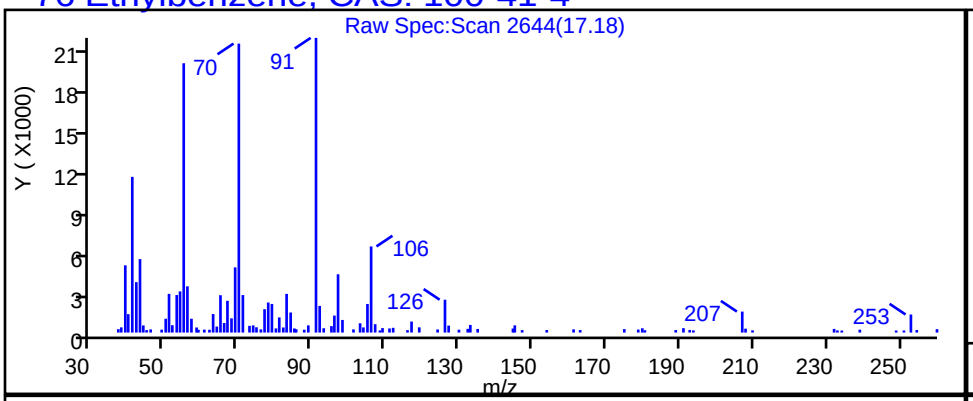
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

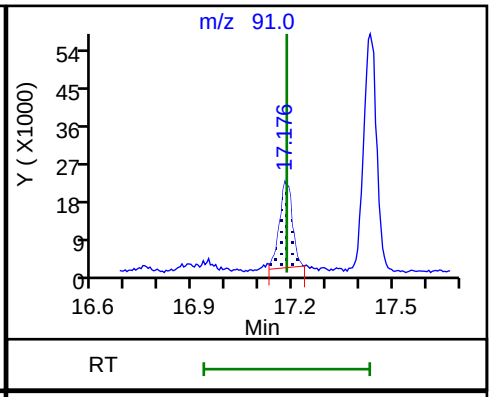
TestAmerica Burlington

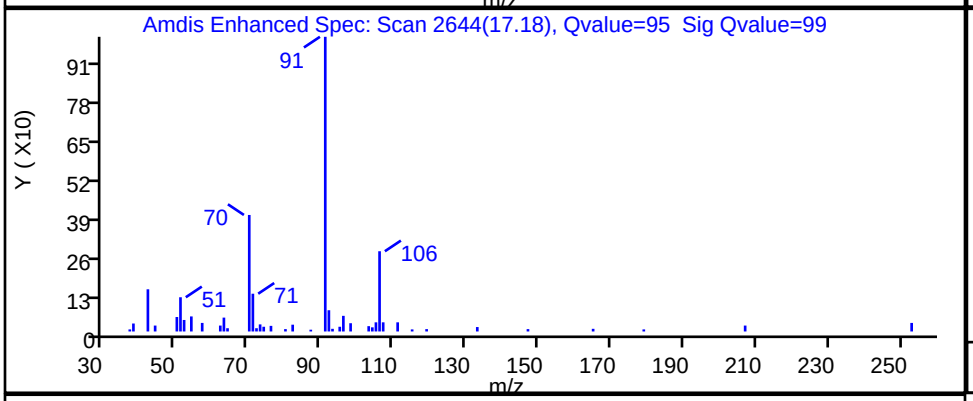
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

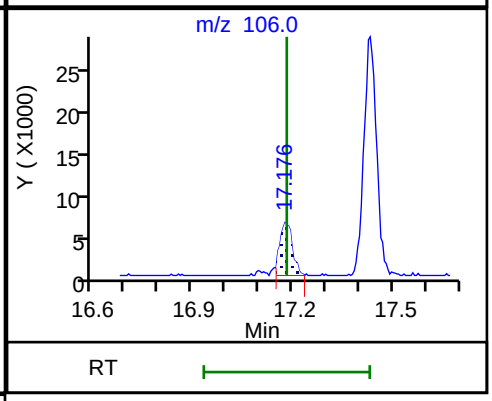
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

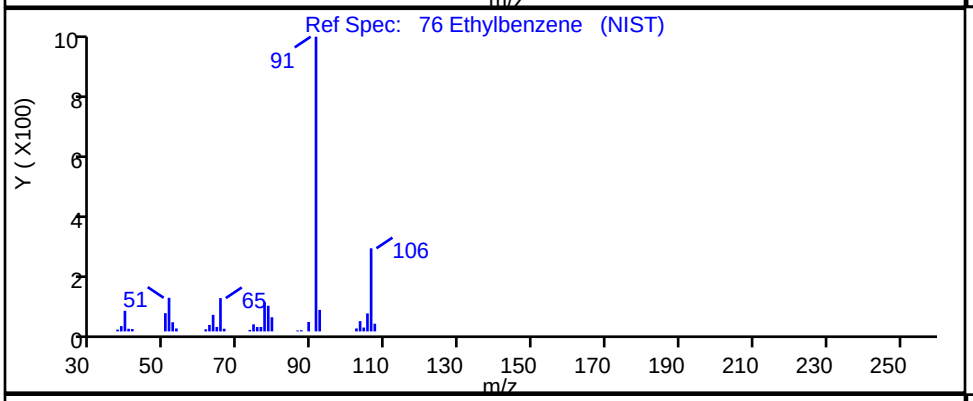
## 76 Ethylbenzene, CAS: 100-41-4

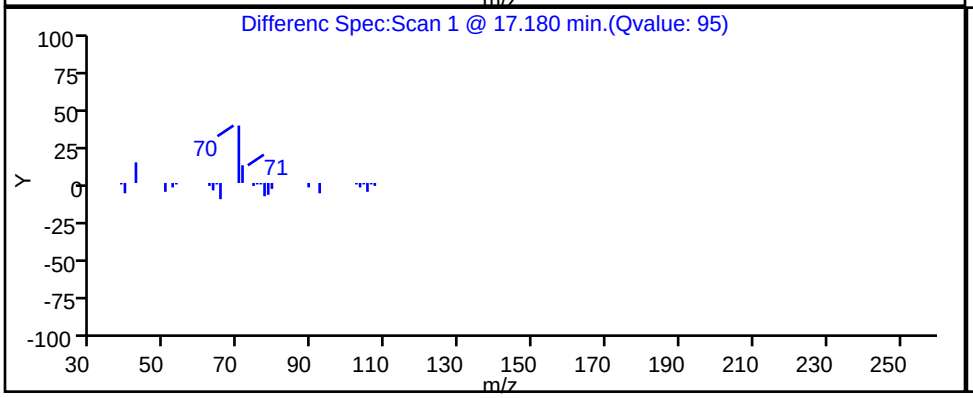


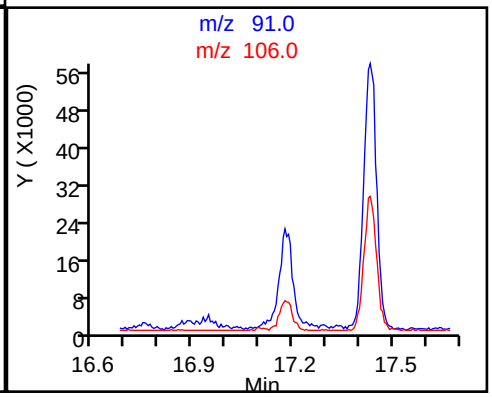



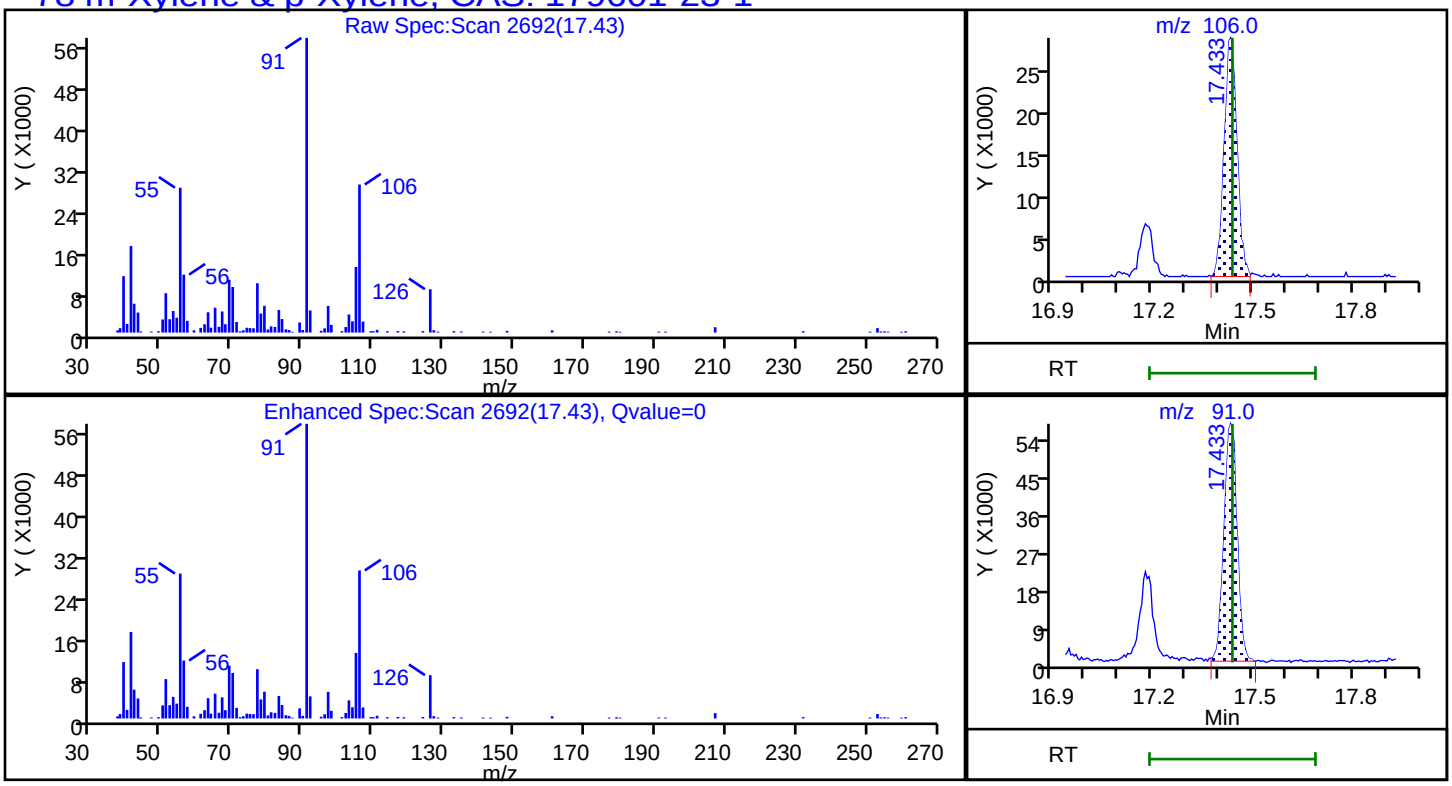
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

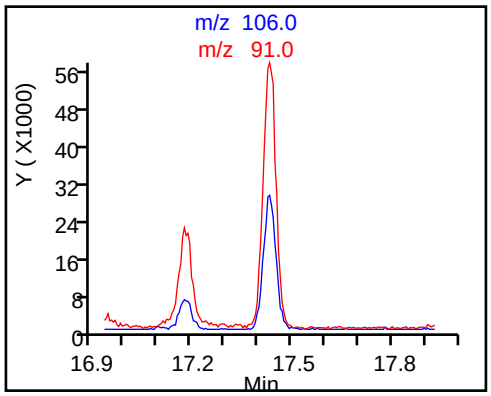
TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



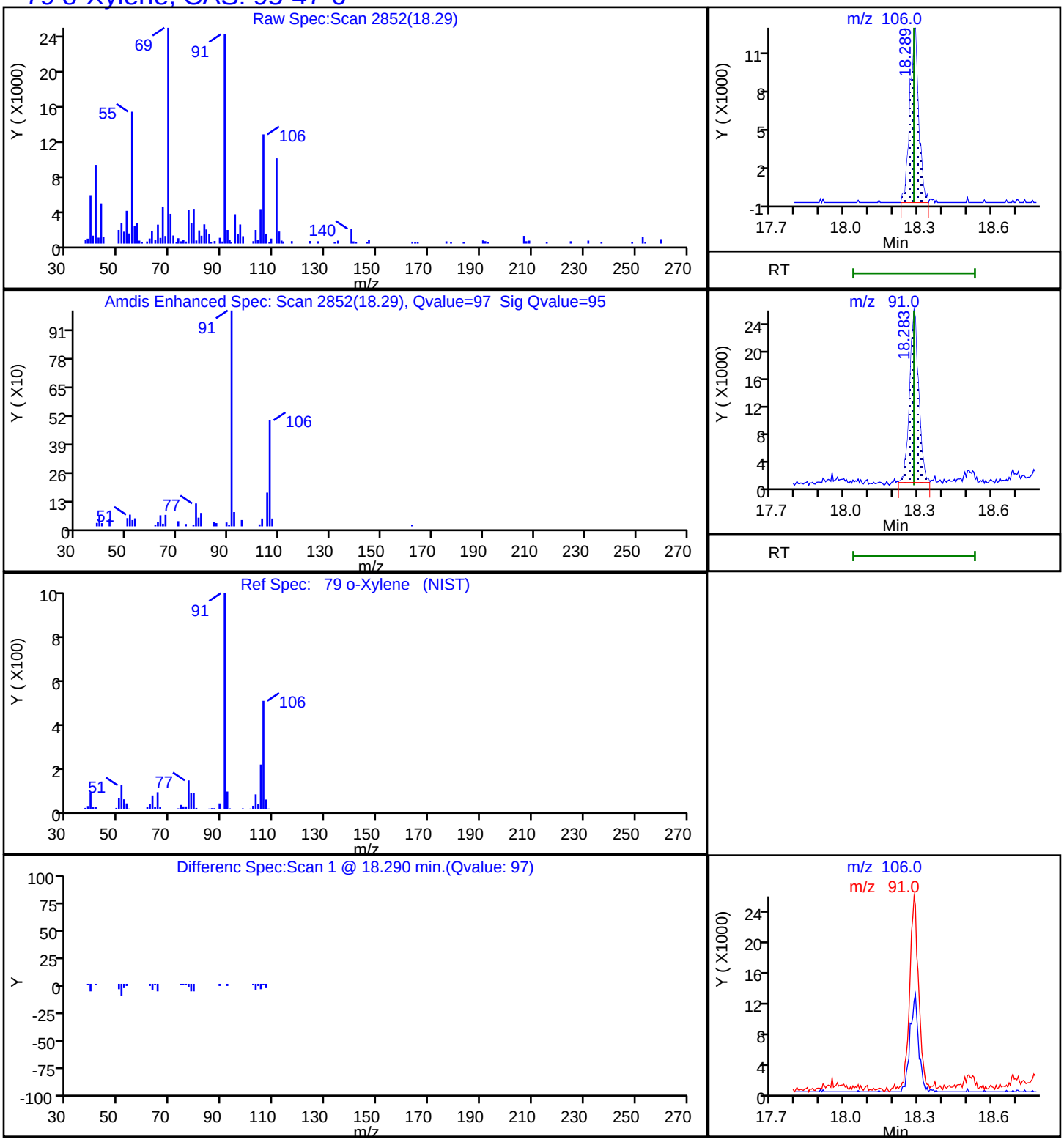
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



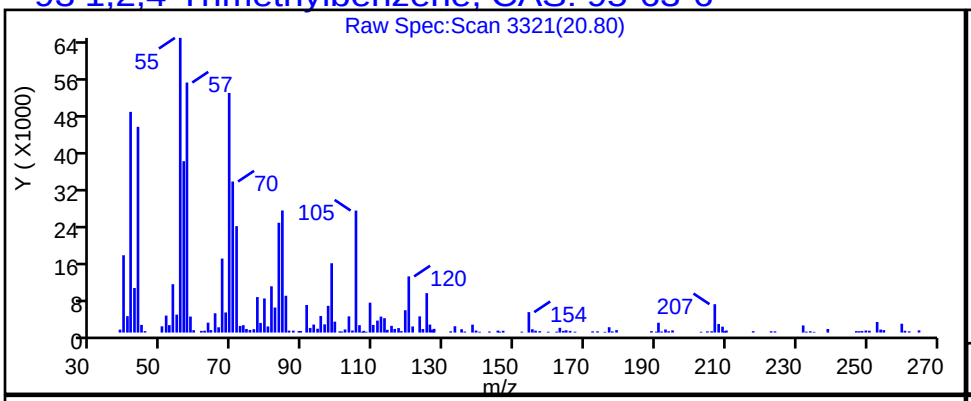
Report Date: 07-Dec-2018 17:05:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

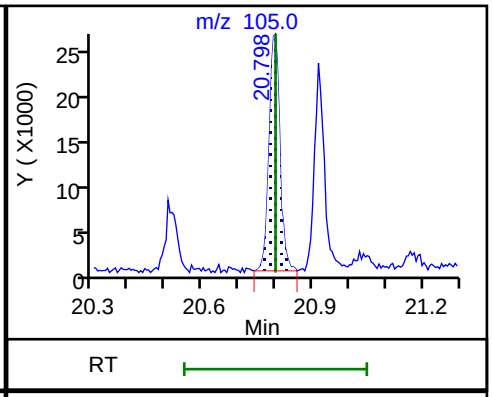
TestAmerica Burlington

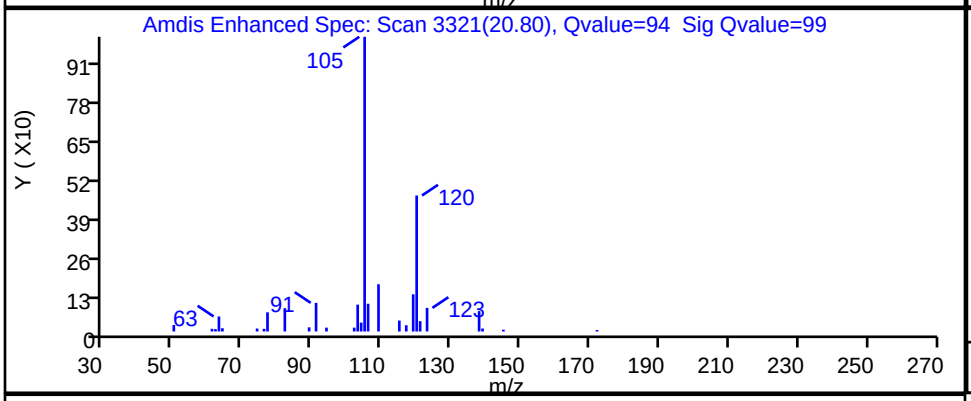
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

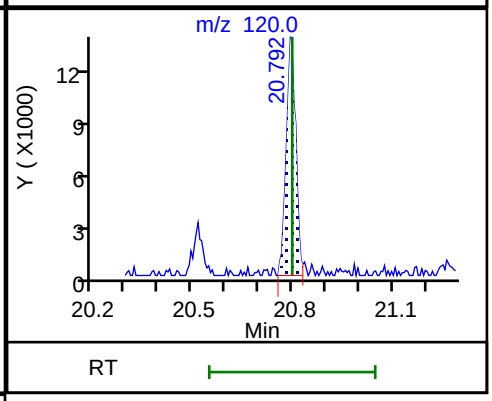
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

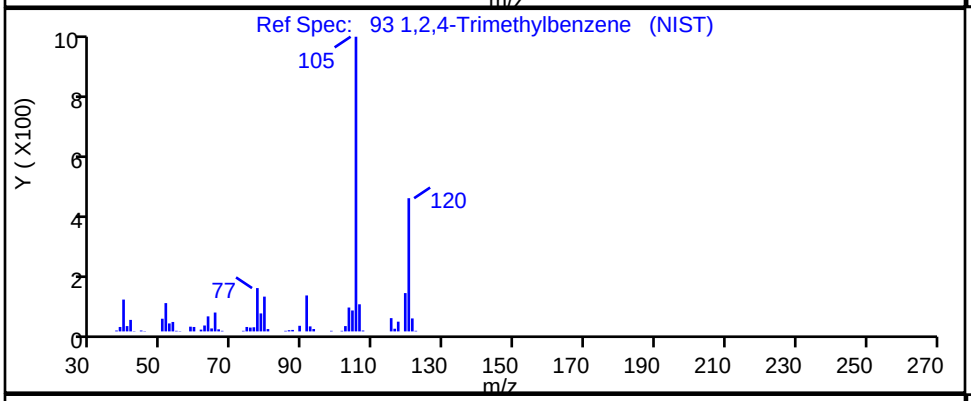
## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

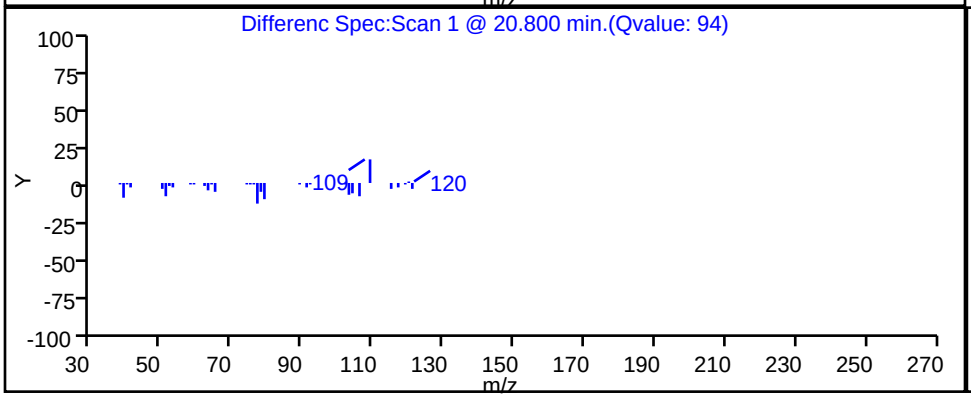


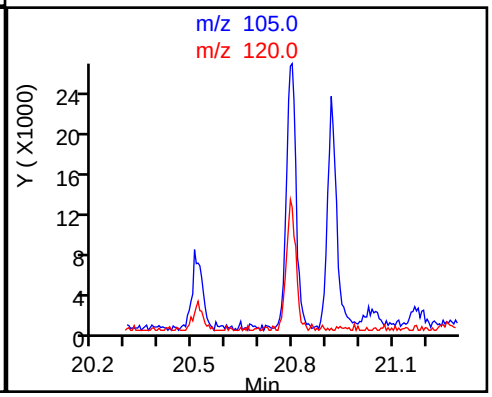



Manual Integration/User Assign Peak Report

TestAmerica Burlington

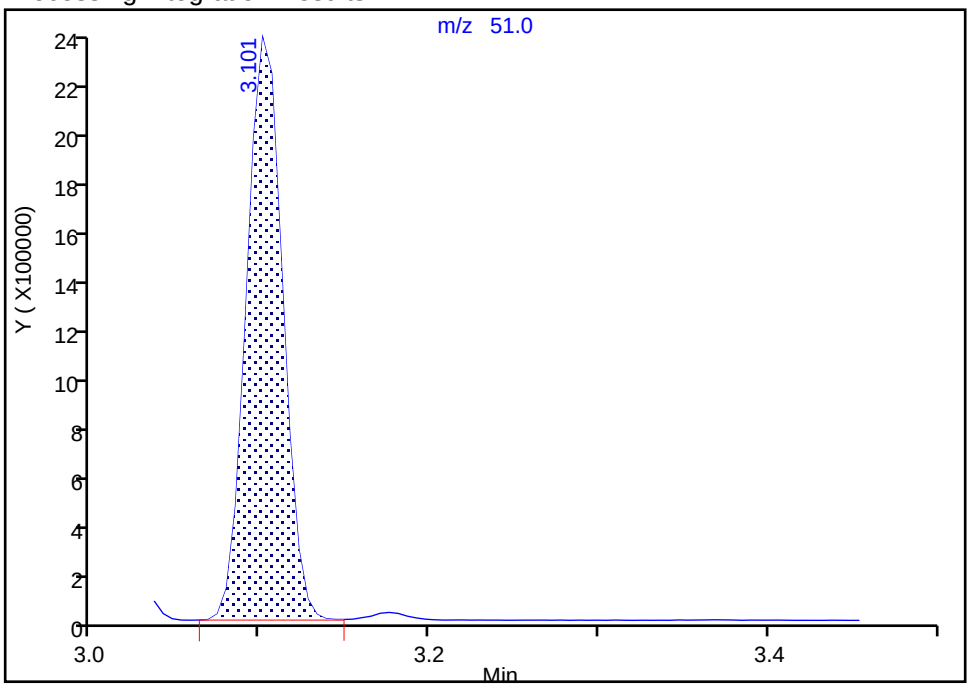
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

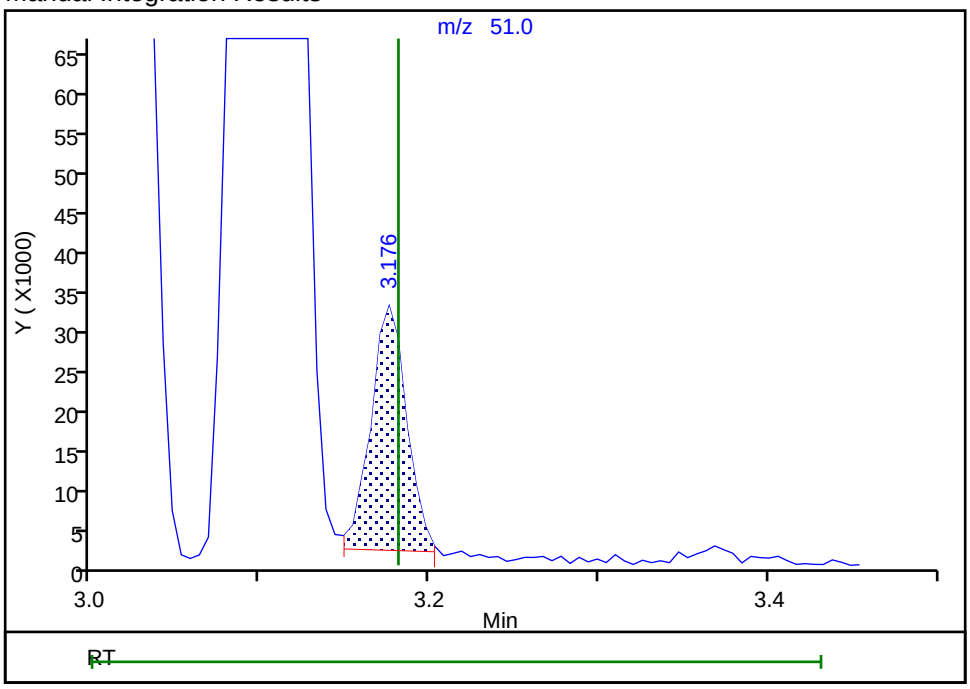
Processing Integration Results

RT: 3.10
Area: 3510140
Amount: 41.278009
Amount Units: ppb v/v




Manual Integration Results

RT: 3.18
Area: 44843
Amount: 0.527338
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 16:37:41

Audit Action: Manually Integrated Audit Reason: Assign Peak

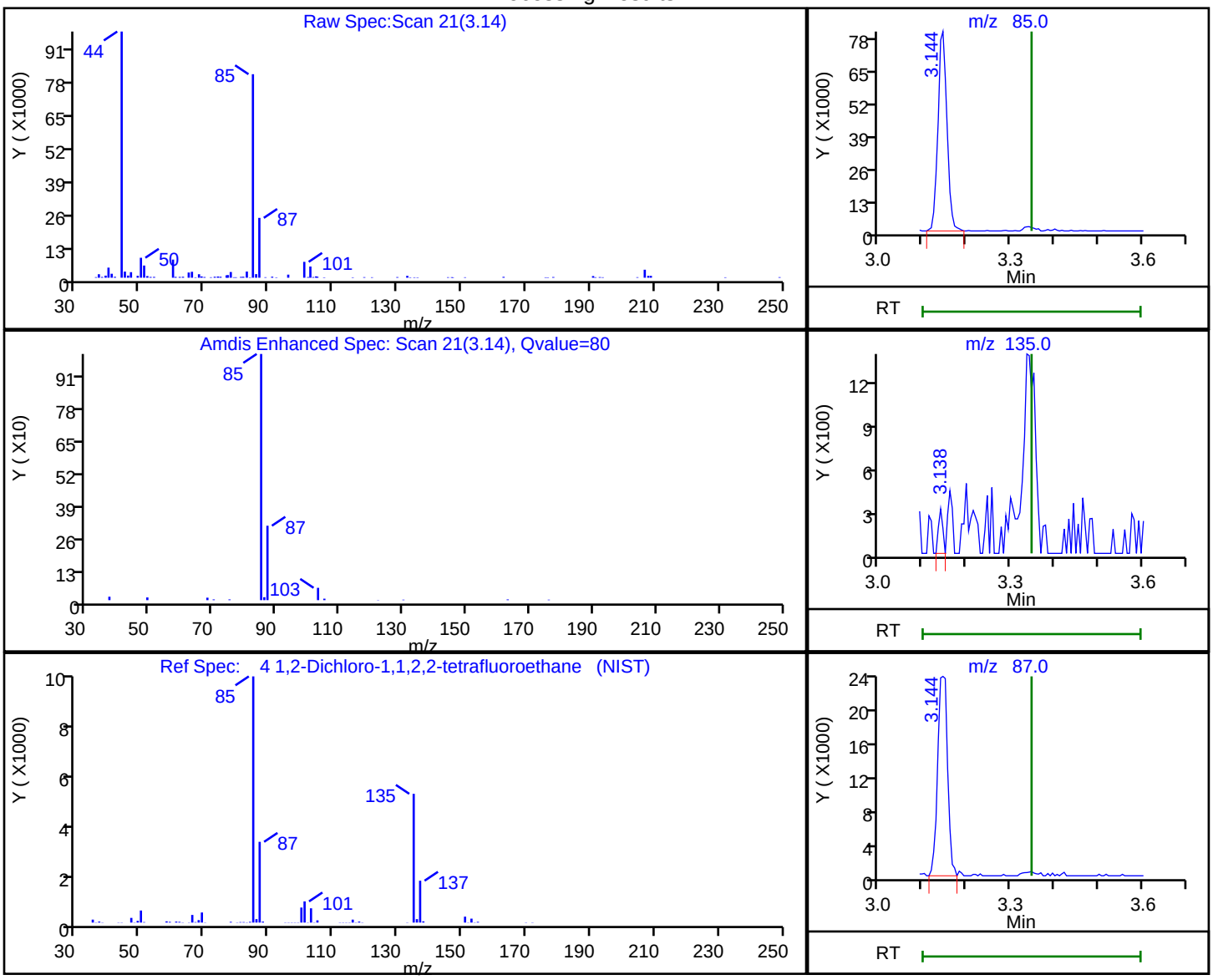
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.14 | 85.00 | 115353 | 0.767316 |
| 3.14 | 135.00 | 203 | |
| 3.14 | 87.00 | 37505 | |

Reviewer: puangmaleek, 07-Dec-2018 16:37:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

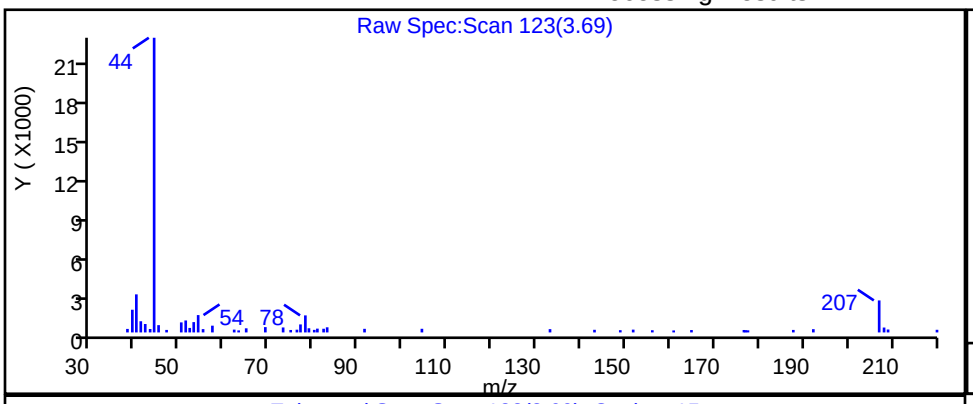
User Disabled Compound Report

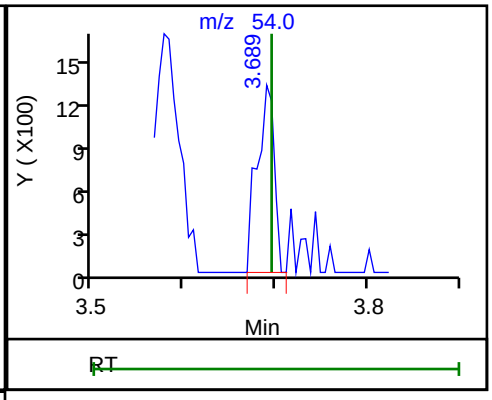
TestAmerica Burlington

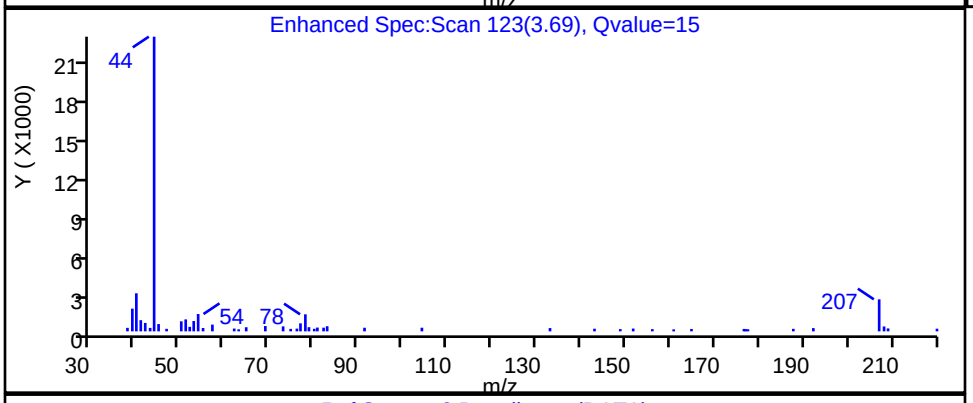
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

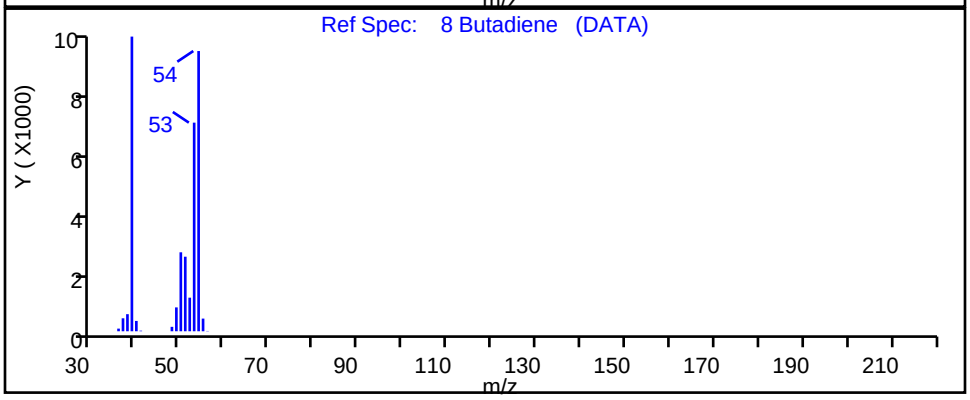
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.69 | 54.00 | 1708 | 0.058675 |

Reviewer: puangmaleek, 07-Dec-2018 16:37:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

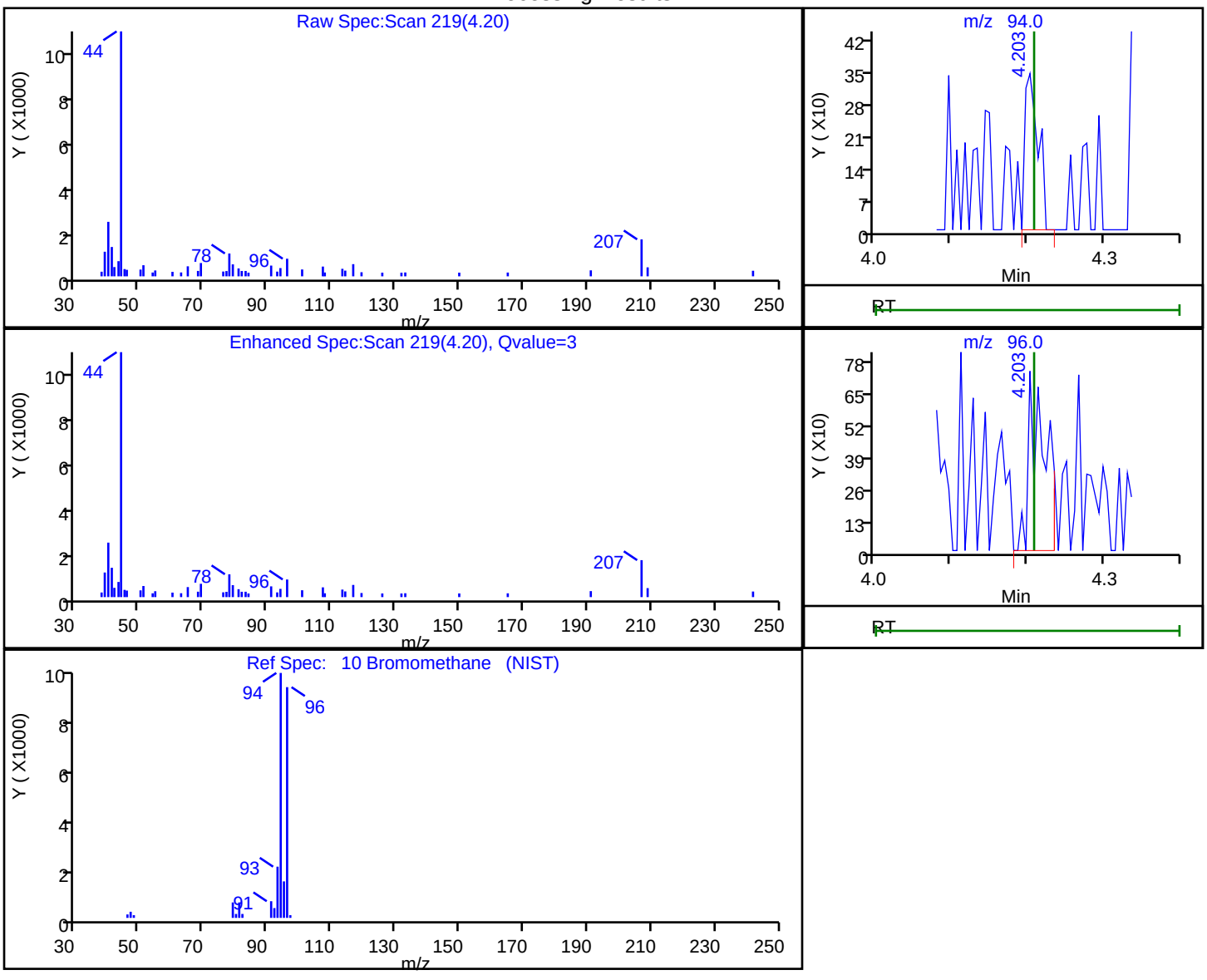
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 10 Bromomethane, CAS: 74-83-9

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.20 | 94.00 | 416 | 0.007701 |
| 4.20 | 96.00 | 1101 | |

Reviewer: puangmaleek, 07-Dec-2018 16:37:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

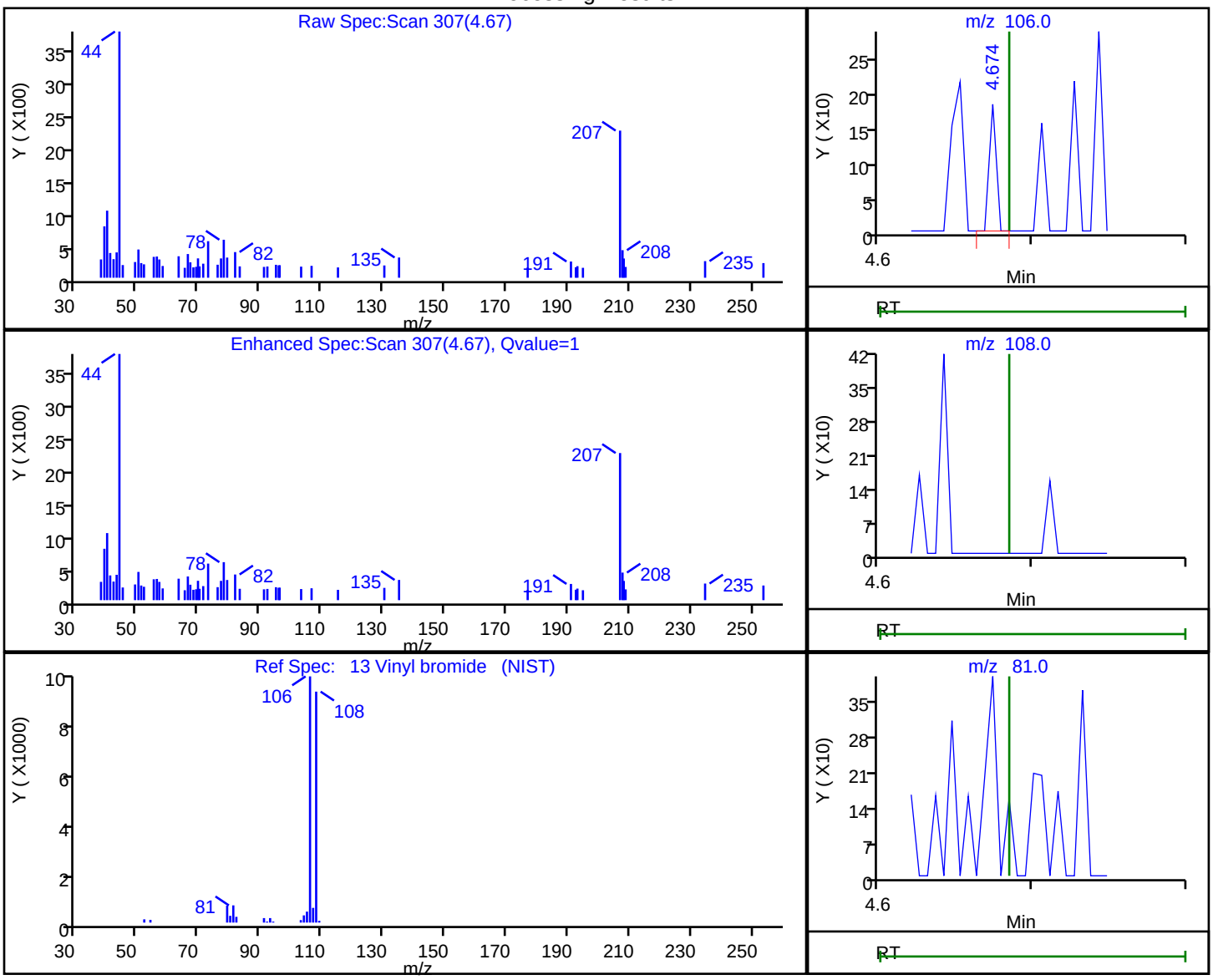
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.67 | 106.00 | 58 | 0.001086 |
| 4.68 | 108.00 | 0 | |
| 4.68 | 81.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:37:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

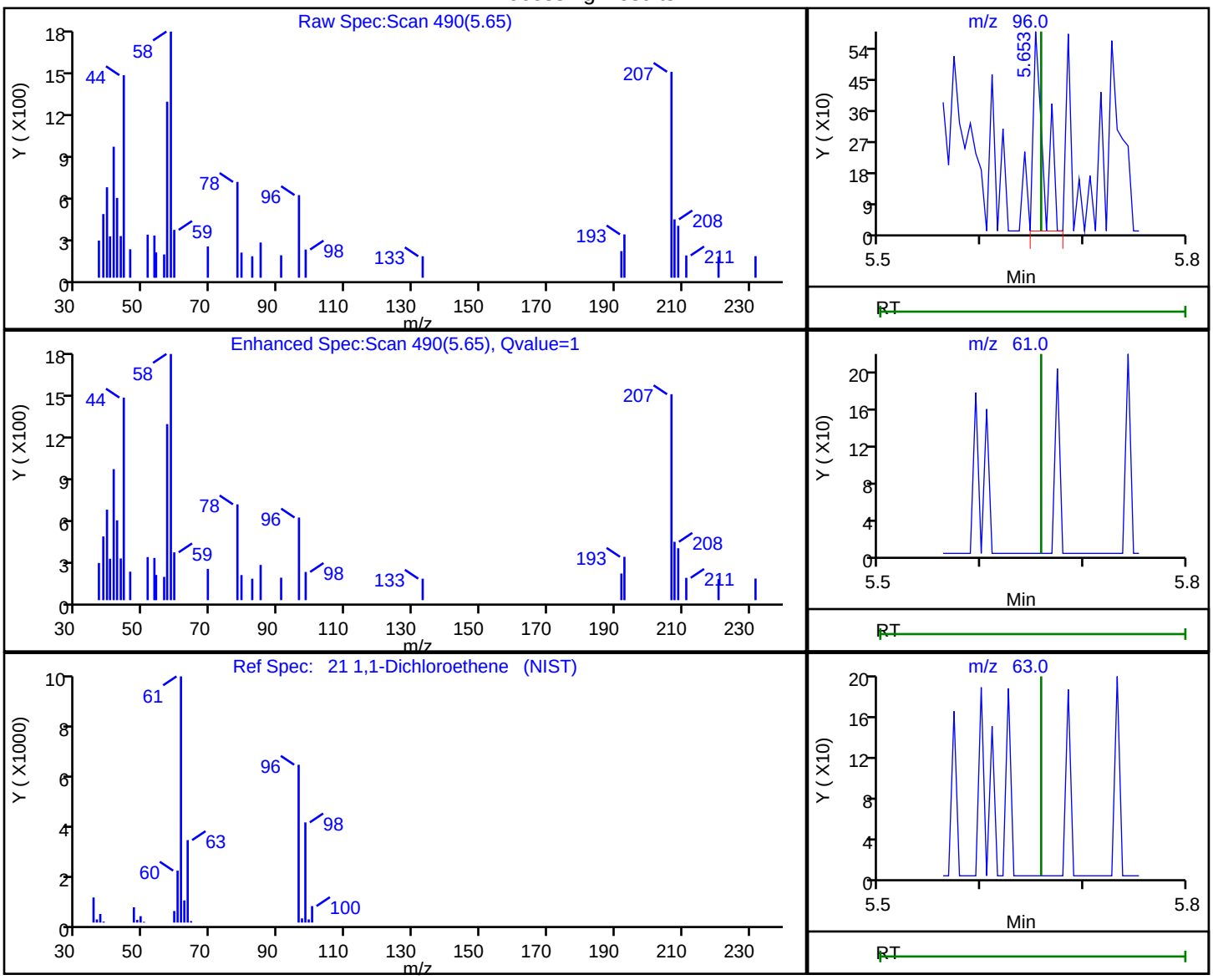
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.65 | 96.00 | 412 | 0.008417 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 16:37:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

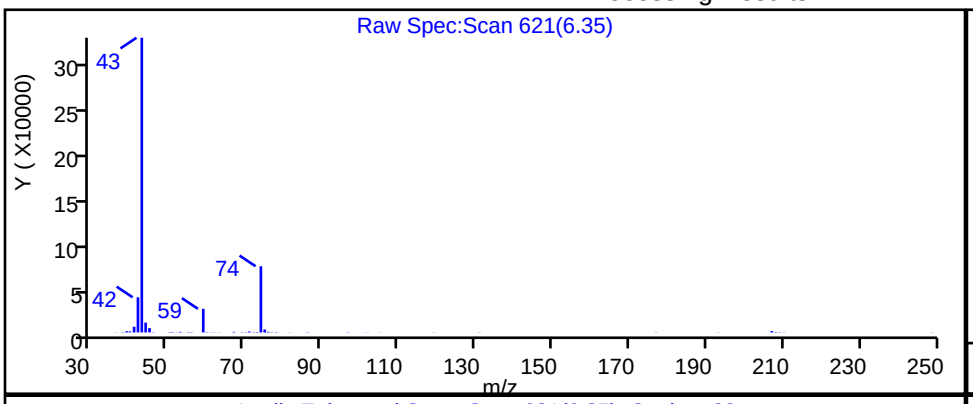
User Disabled Compound Report

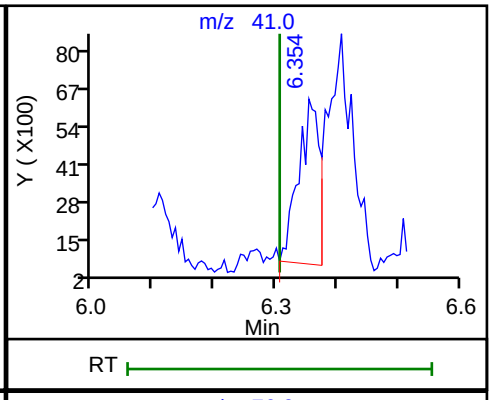
TestAmerica Burlington

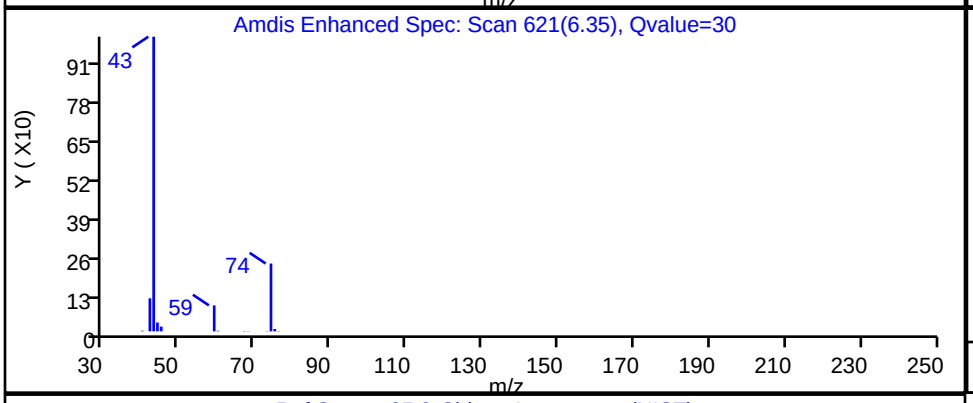
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

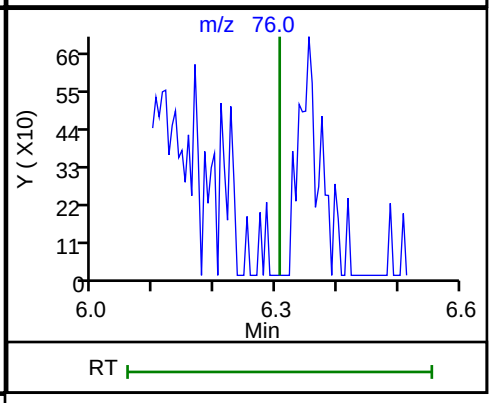
## 25 3-Chloro-1-propene, CAS: 107-05-1

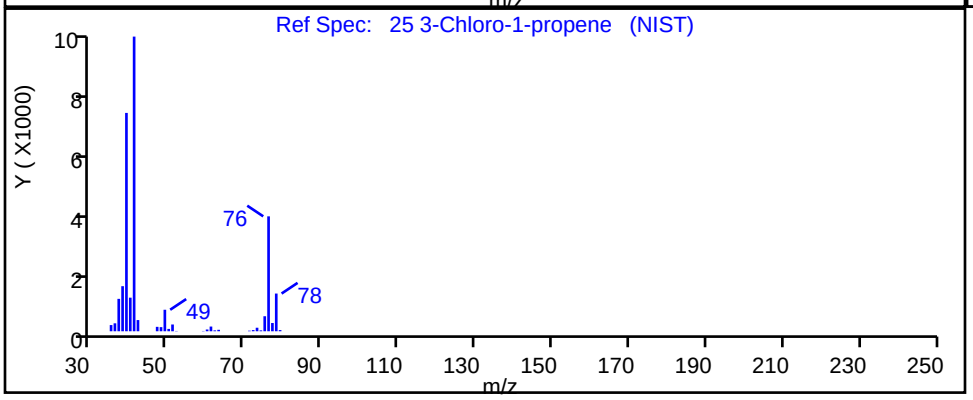
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.35 | 41.00 | 13766 | 0.378024 |
| 6.30 | 76.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:03:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

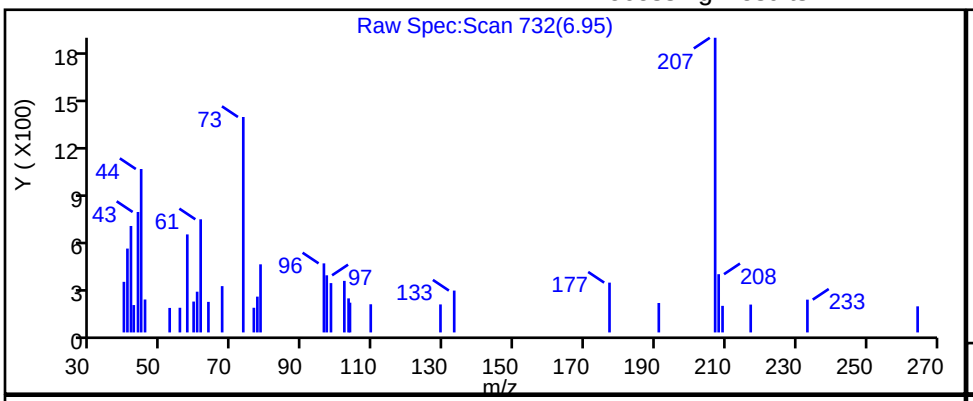
User Disabled Compound Report

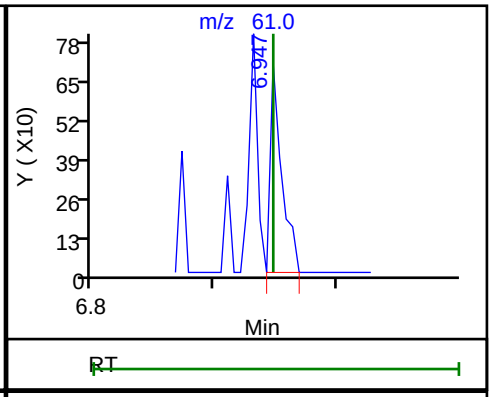
TestAmerica Burlington

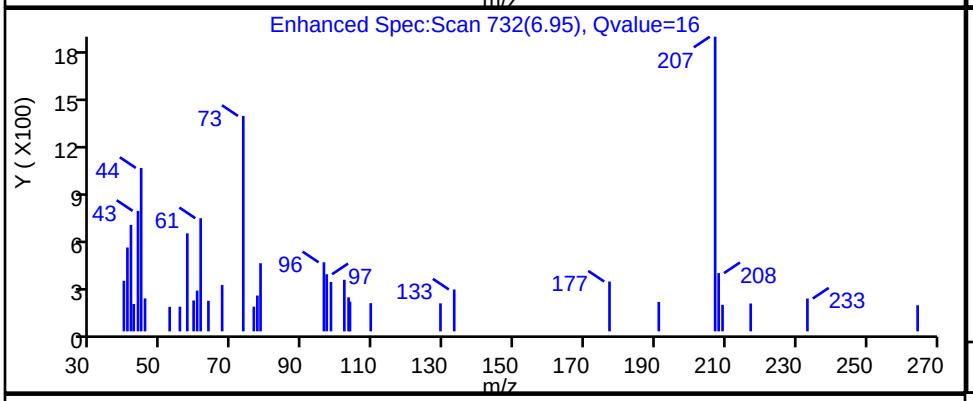
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

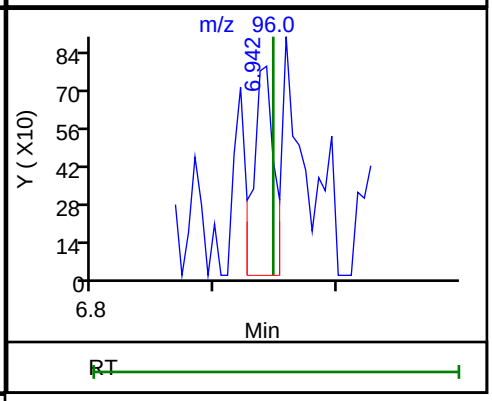
## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

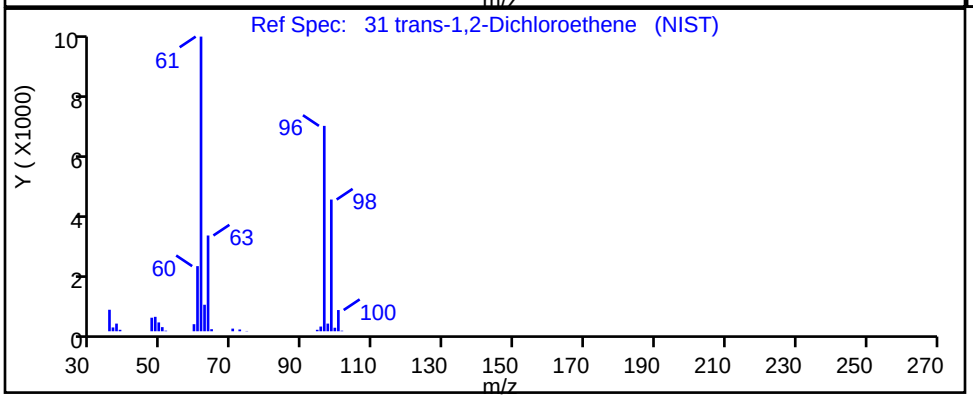
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.95 | 61.00 | 461 | 0.007773 |
| 6.94 | 96.00 | 924 | |

Reviewer: puangmaleek, 07-Dec-2018 17:03:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

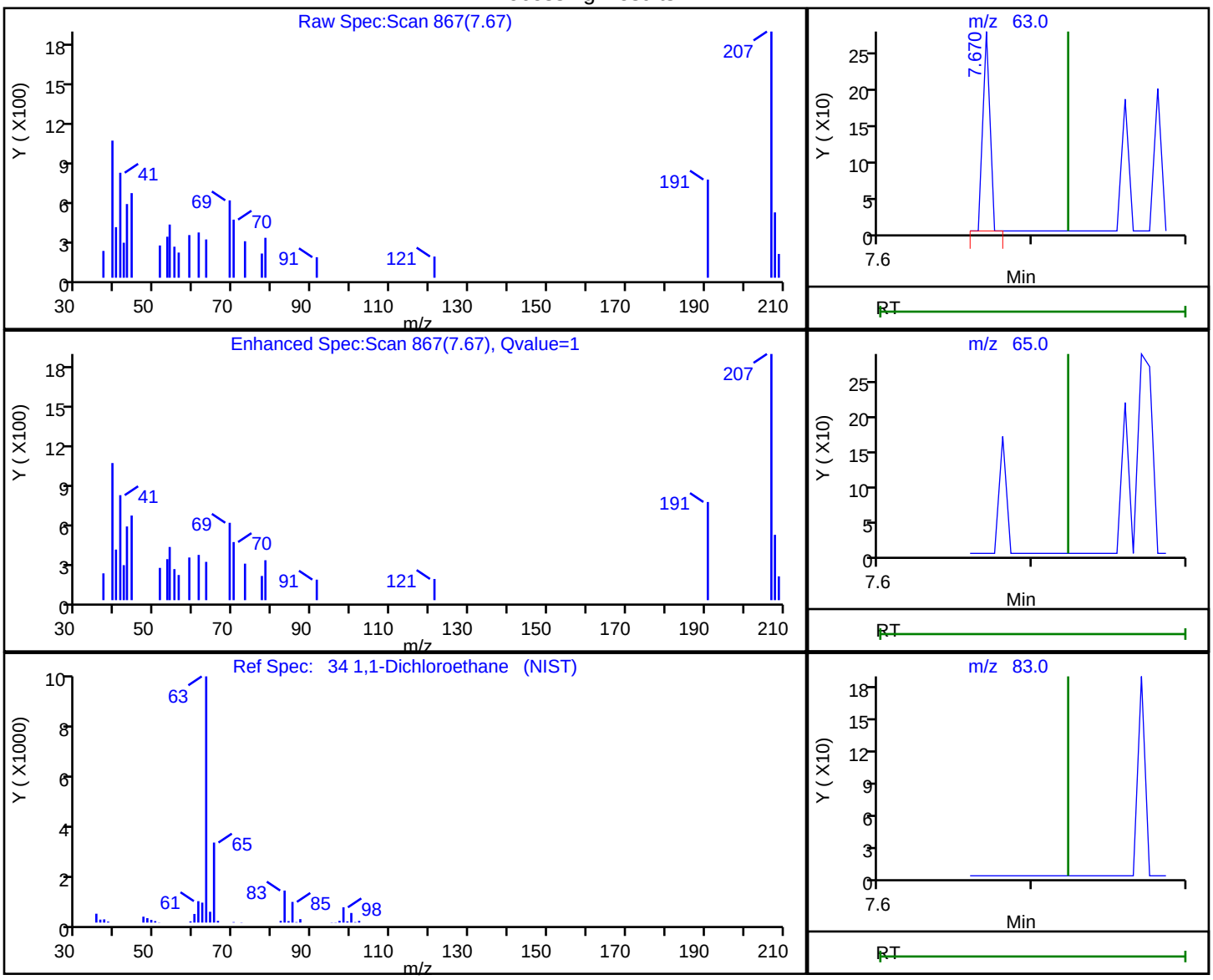
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.67 | 63.00 | 90 | 0.001176 |
| 7.72 | 65.00 | 0 | |
| 7.72 | 83.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:03:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

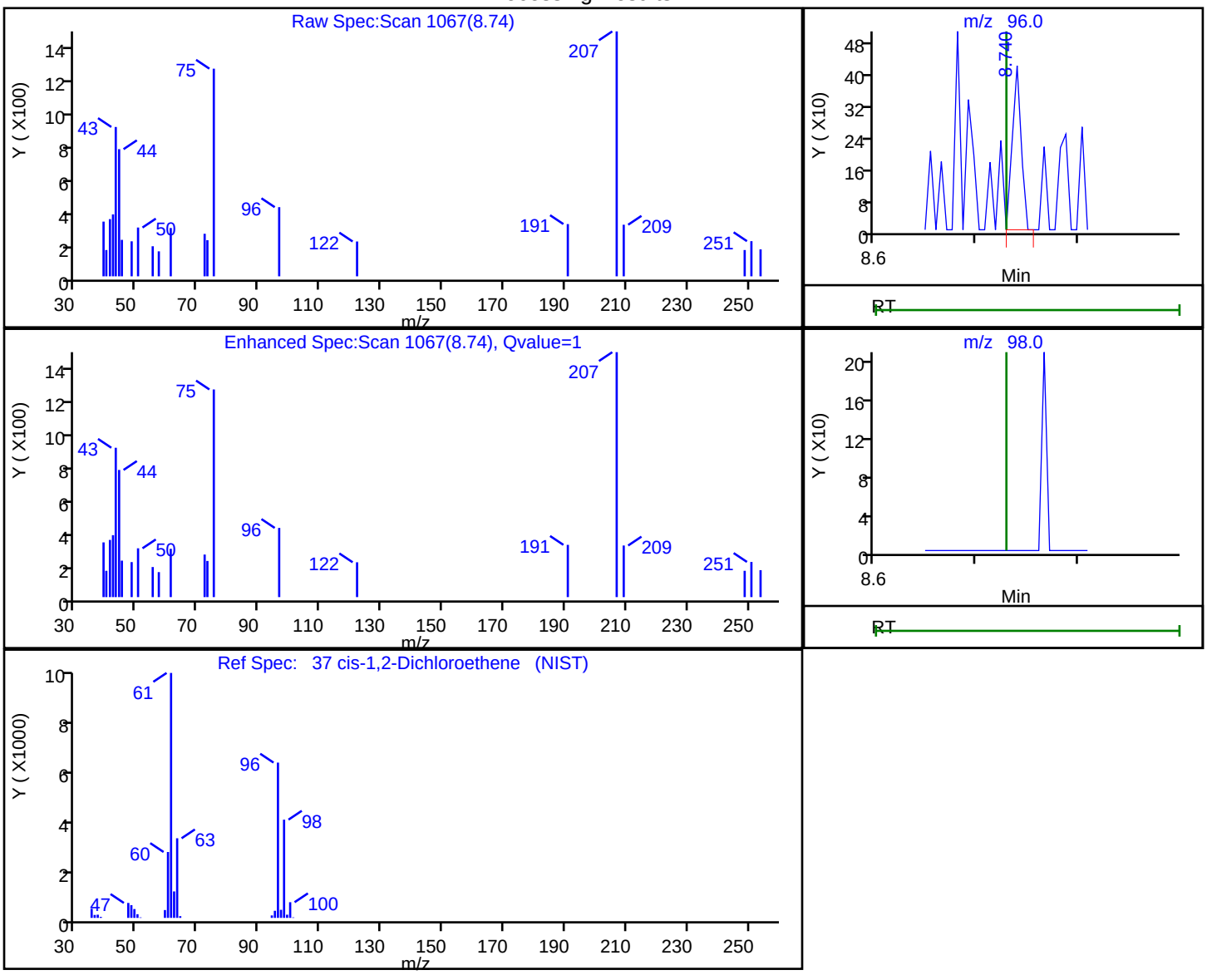
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.74 | 96.00 | 256 | 0.005521 |
| 8.72 | 98.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:03:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

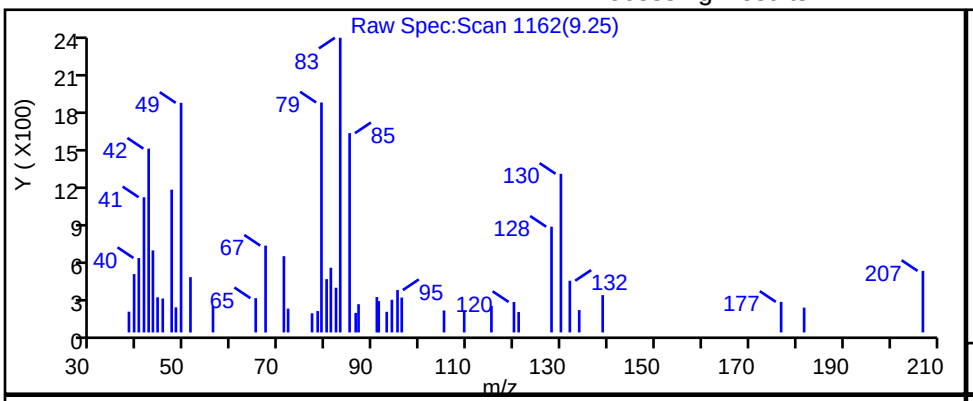
User Disabled Compound Report

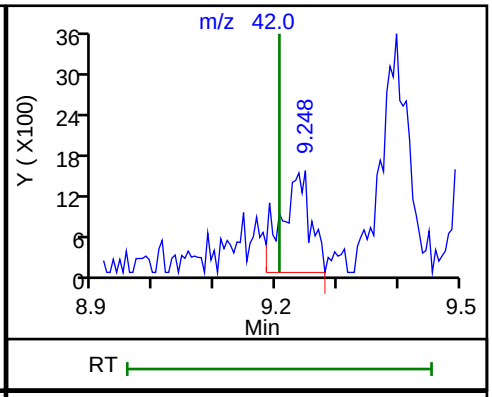
TestAmerica Burlington

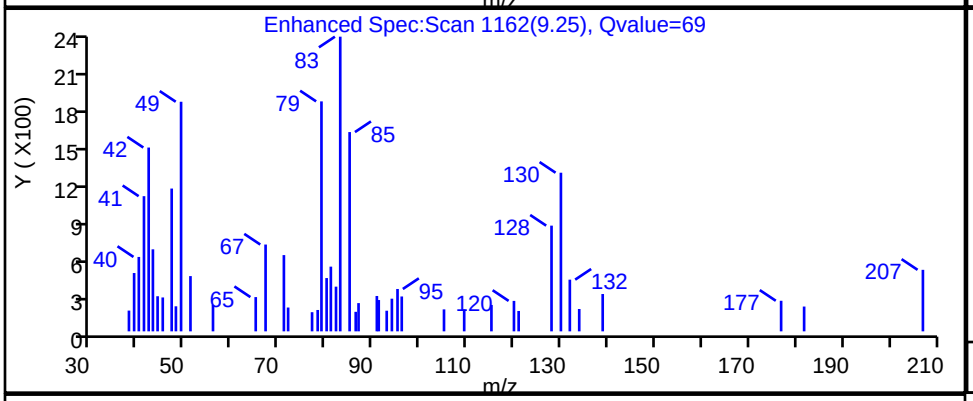
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

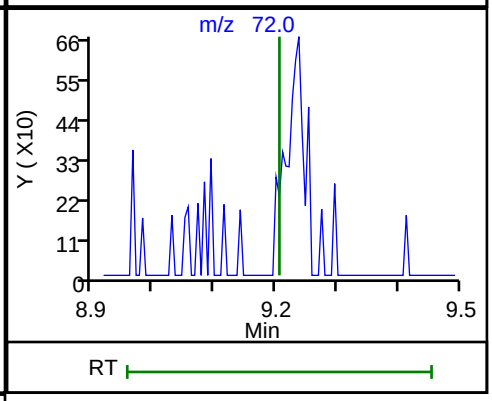
## 41 Tetrahydrofuran, CAS: 109-99-9

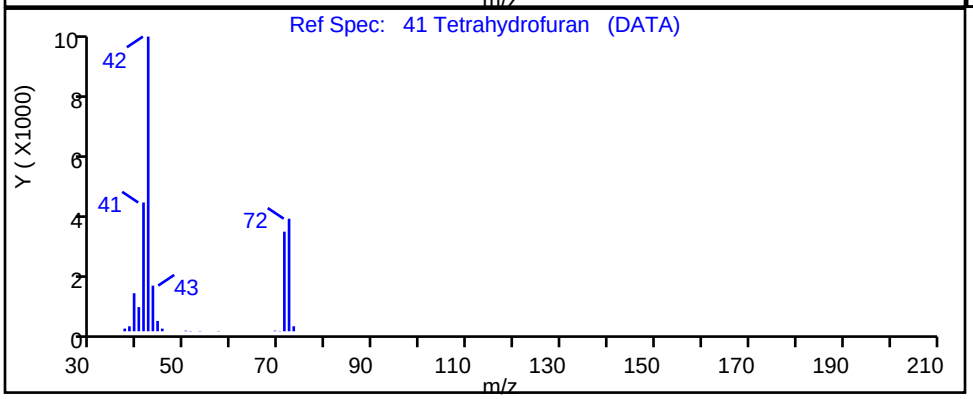
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.25 | 42.00 | 4858 | 0.197904 |
| 9.21 | 72.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:03:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

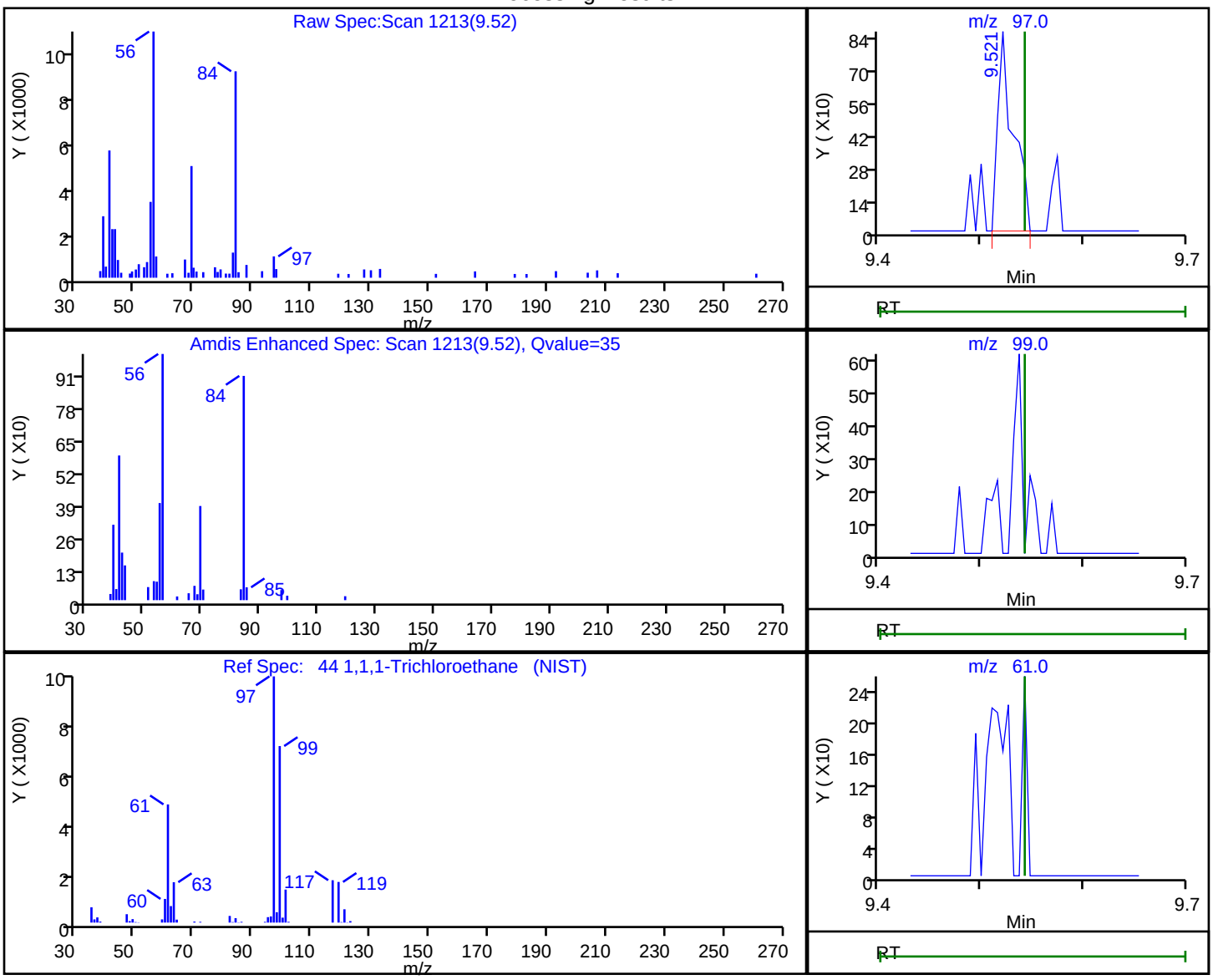
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.52 | 97.00 | 922 | 0.007712 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

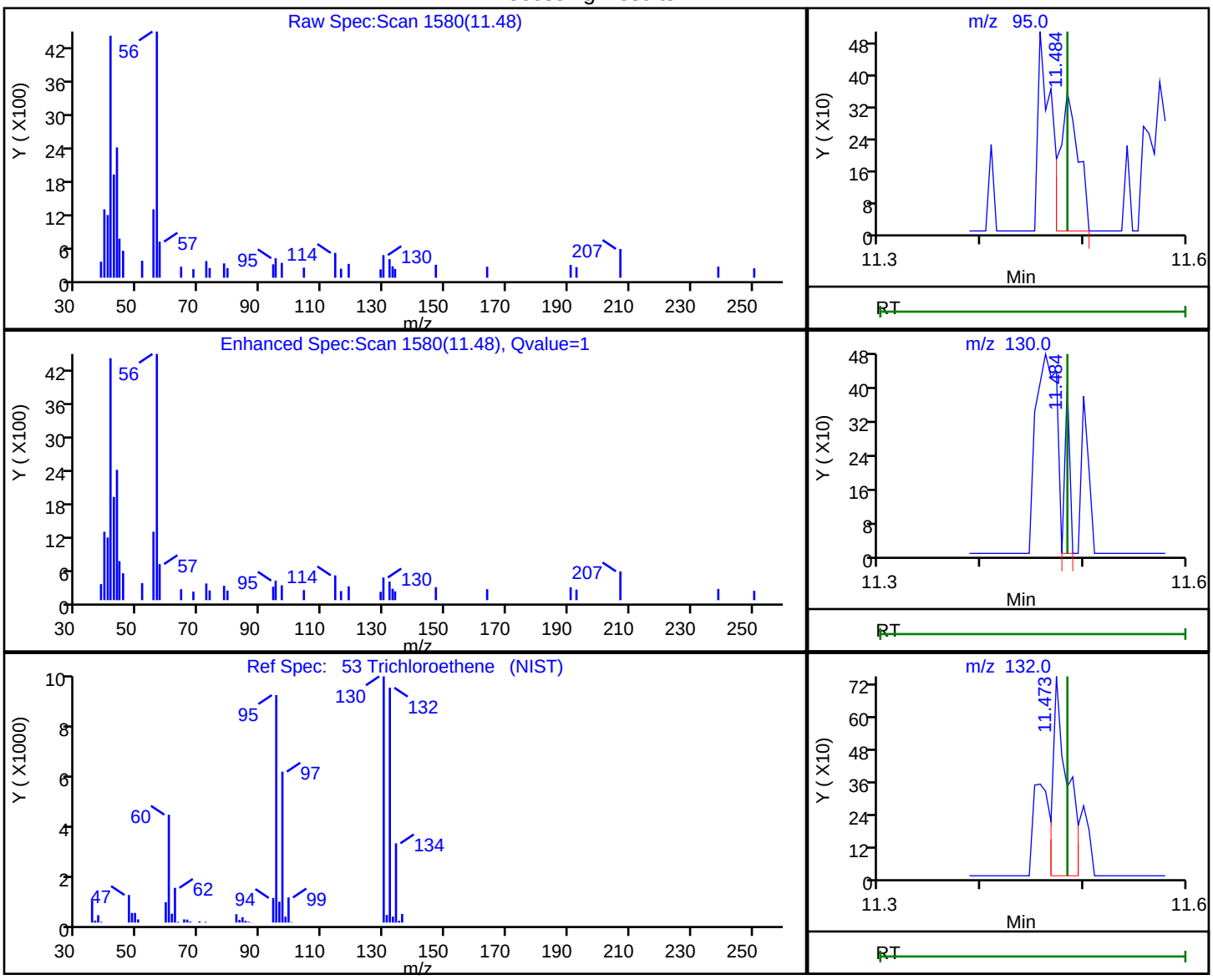
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 11.48 | 95.00 | 444 | 0.005922 |
| 11.48 | 130.00 | 131 | |
| 11.47 | 132.00 | 738 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

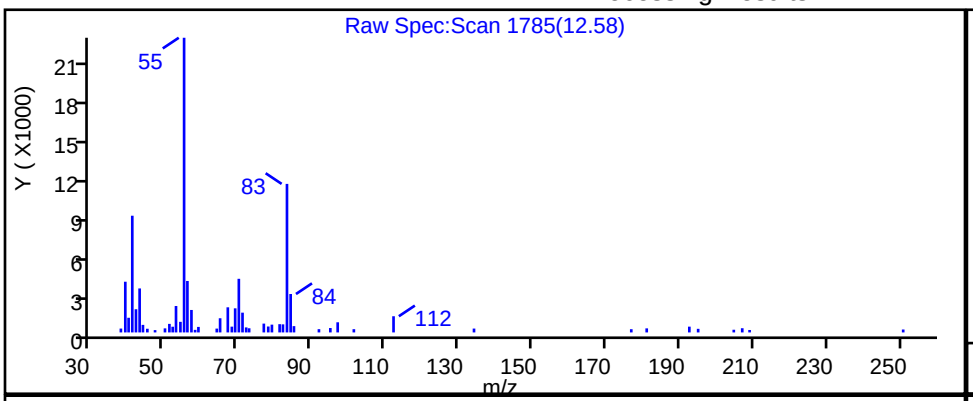
User Disabled Compound Report

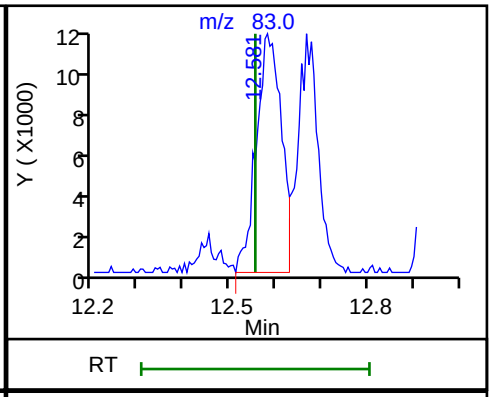
TestAmerica Burlington

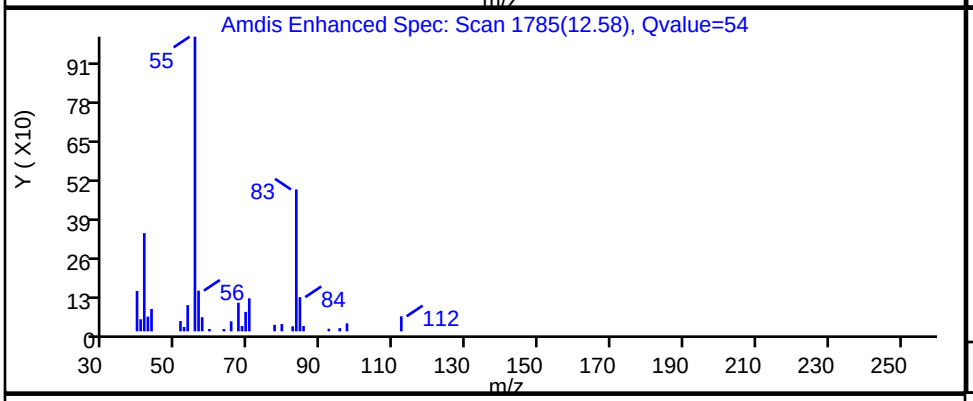
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

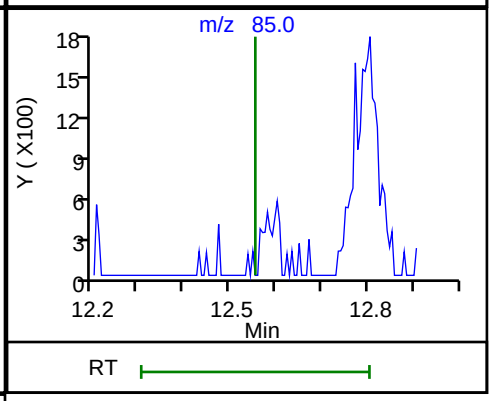
## 58 Dichlorobromomethane, CAS: 75-27-4

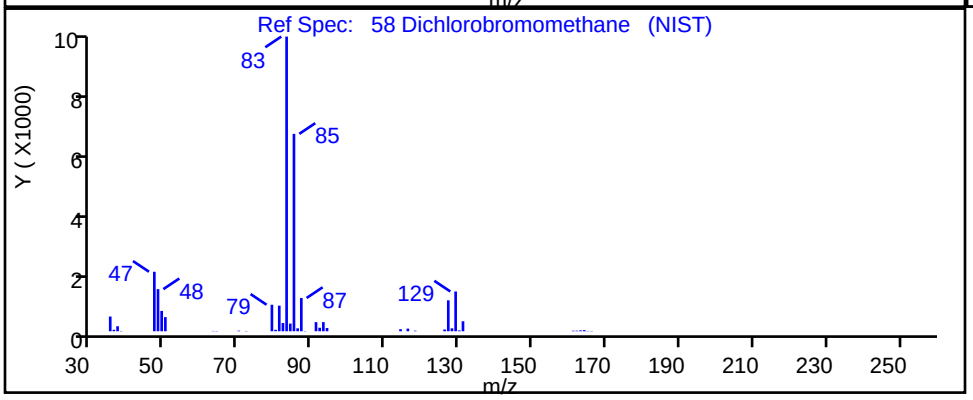
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.58 | 83.00 | 42451 | 0.364579 |
| 12.55 | 85.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

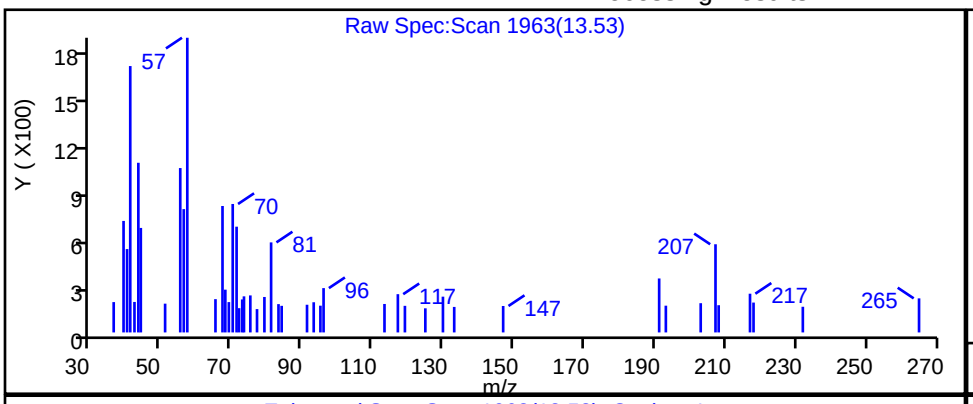
User Disabled Compound Report

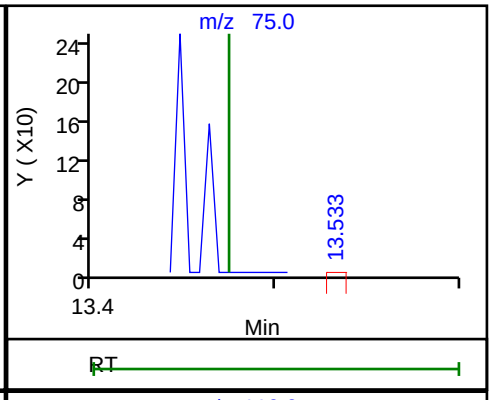
TestAmerica Burlington

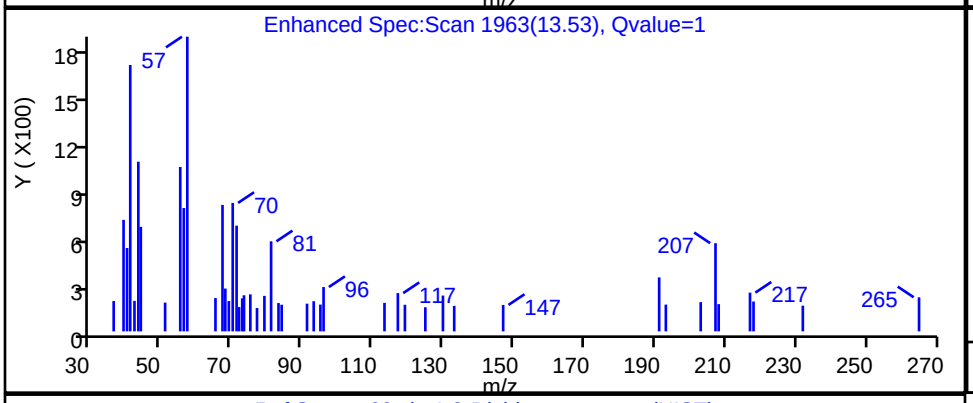
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

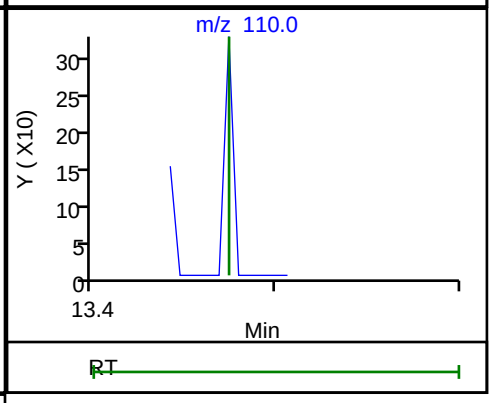
## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

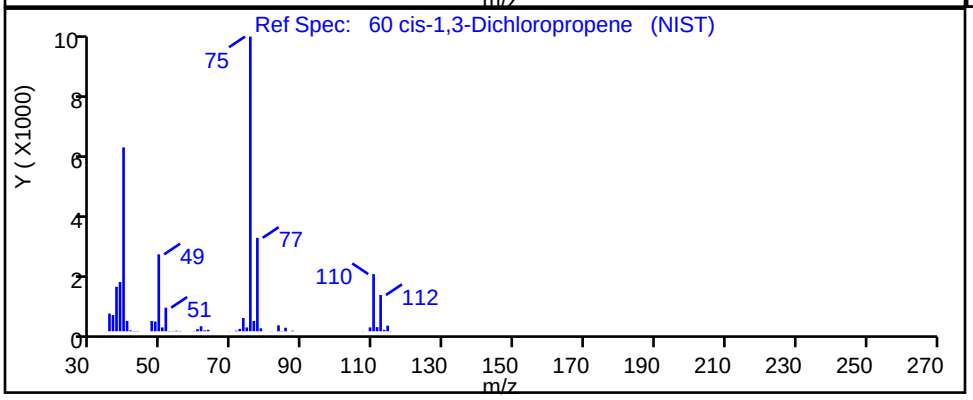
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.53 | 75.00 | 76 | 0.001054 |
| 13.47 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

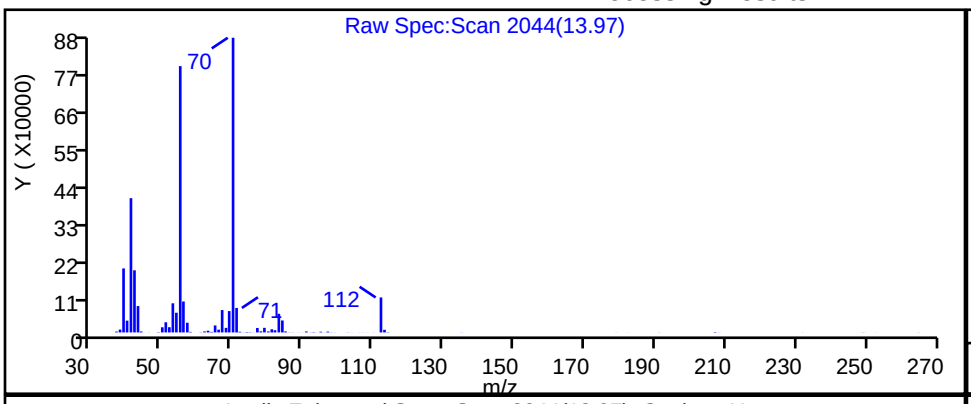
User Disabled Compound Report

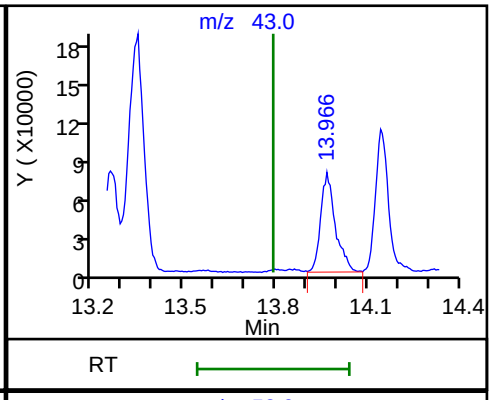
TestAmerica Burlington

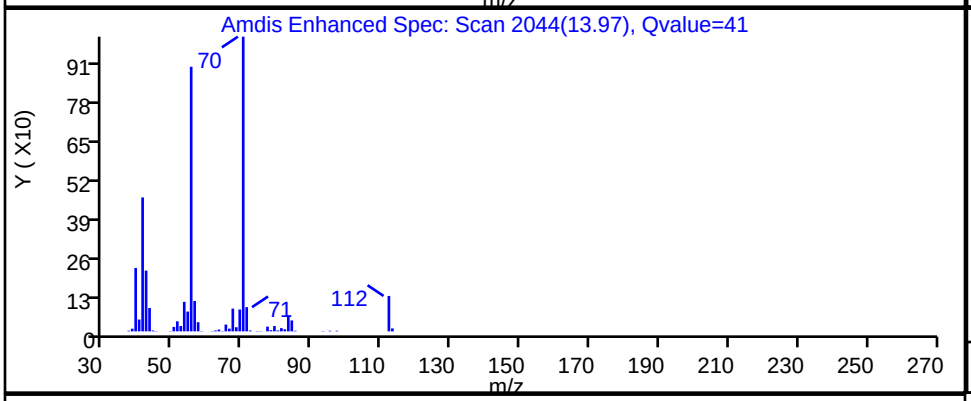
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

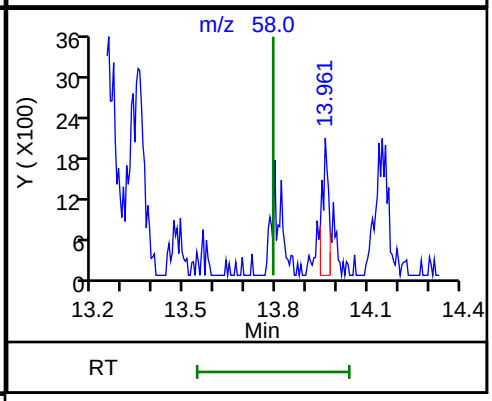
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

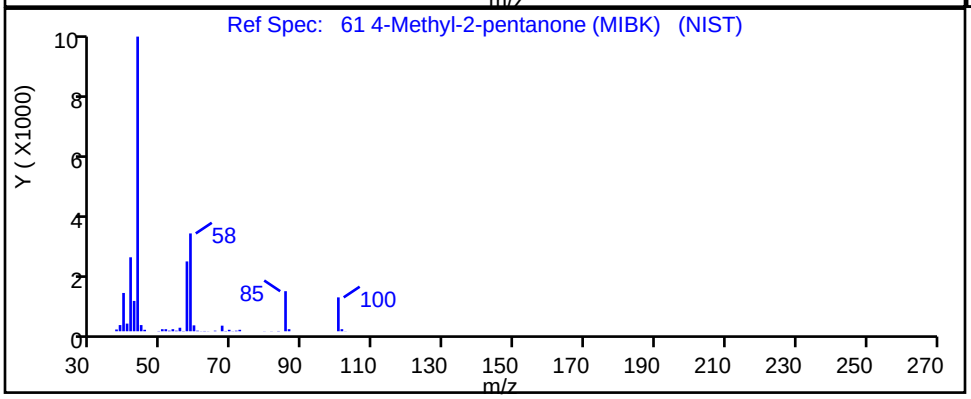
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.97 | 43.00 | 261808 | 3.513861 |
| 13.96 | 58.00 | 2835 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

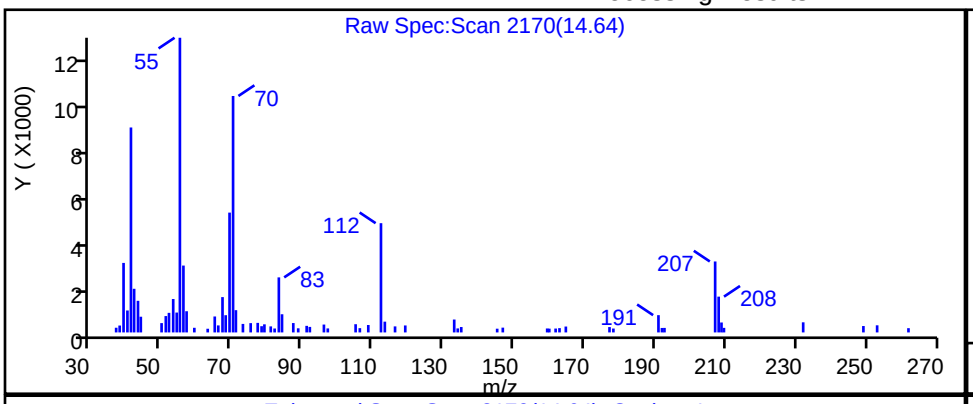
User Disabled Compound Report

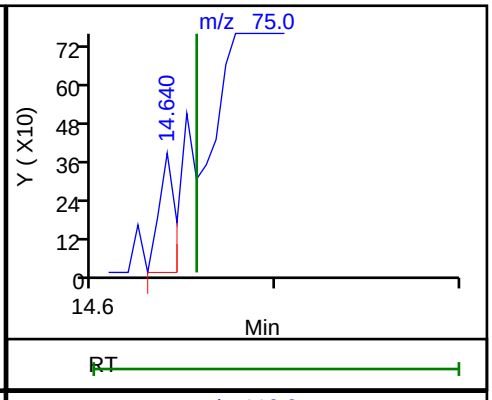
TestAmerica Burlington

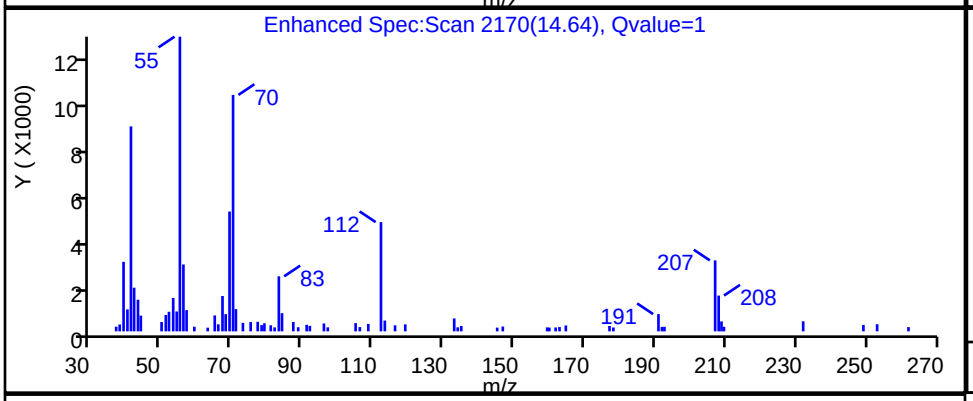
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

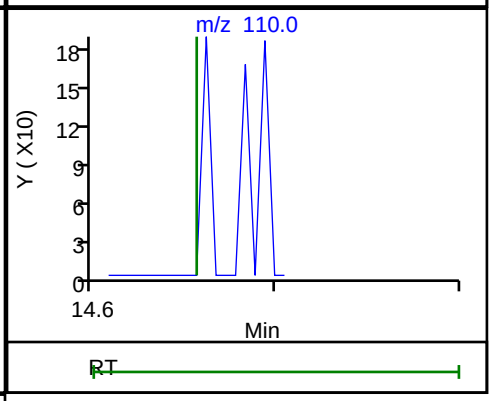
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

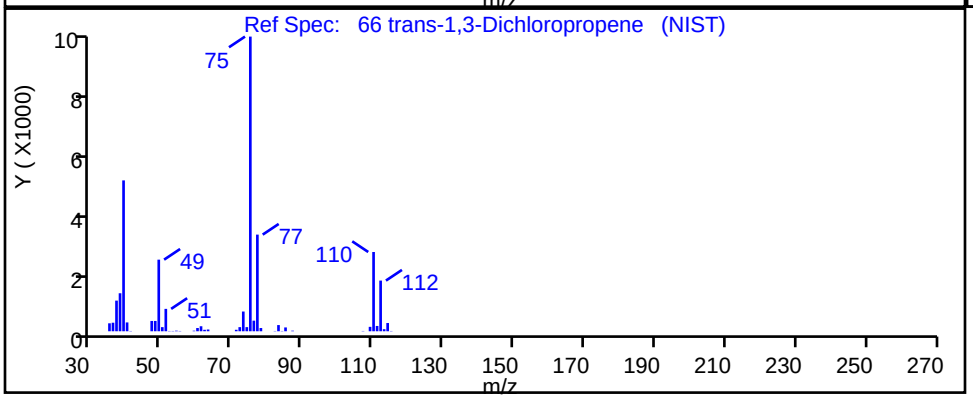
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.64 | 75.00 | 228 | 0.003216 |
| 14.65 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

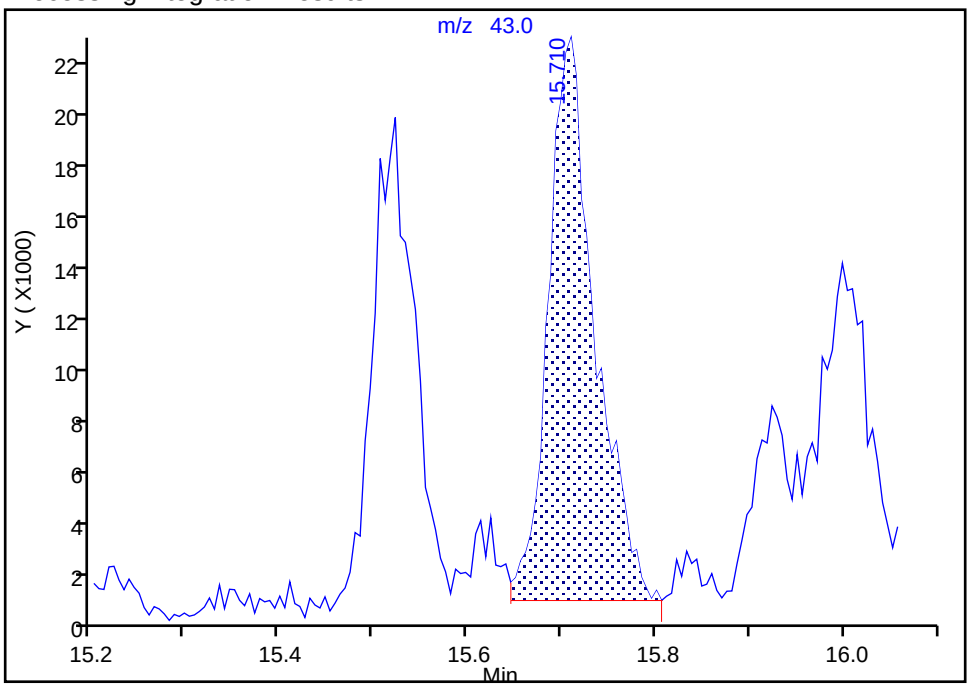
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 69 2-Hexanone, CAS: 591-78-6

Signal: 1

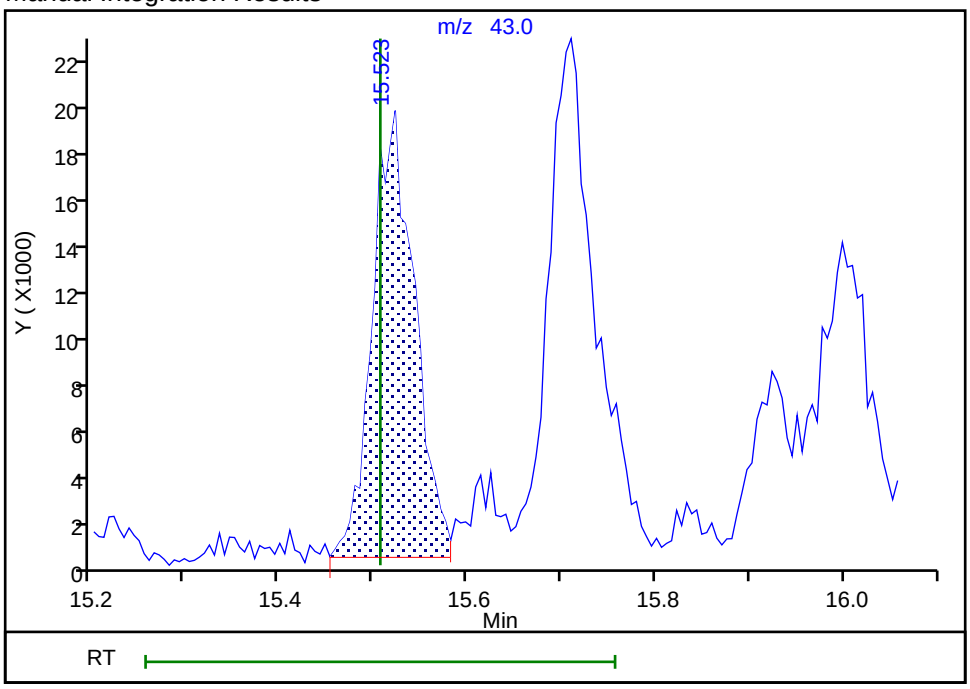
Processing Integration Results

RT: 15.71
Area: 73988
Amount: 0.976574
Amount Units: ppb v/v




Manual Integration Results

RT: 15.52
Area: 59031
Amount: 0.779155
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:04:46

Audit Action: Manually Integrated Audit Reason: Assign Peak

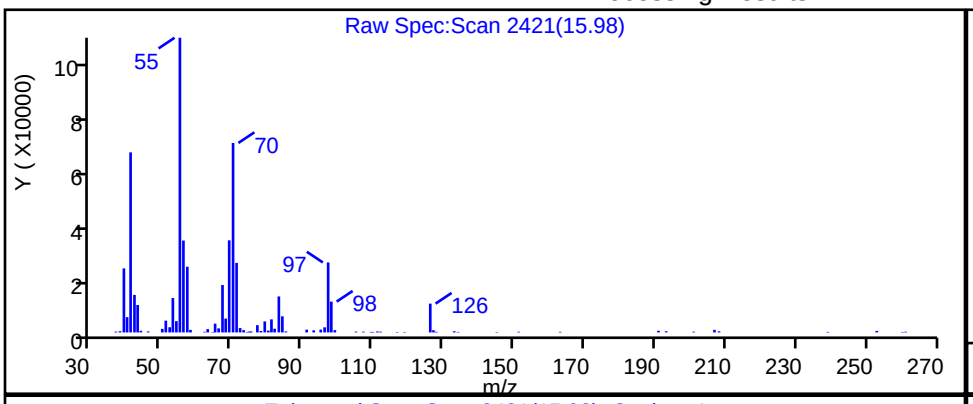
User Disabled Compound Report

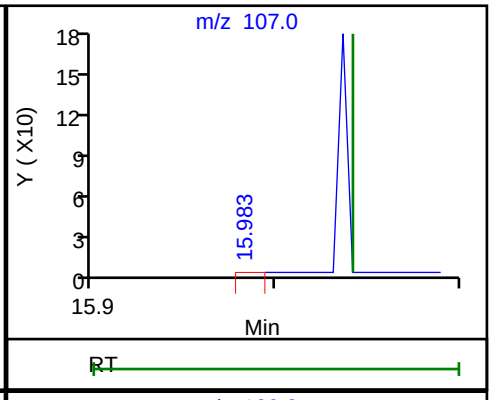
TestAmerica Burlington

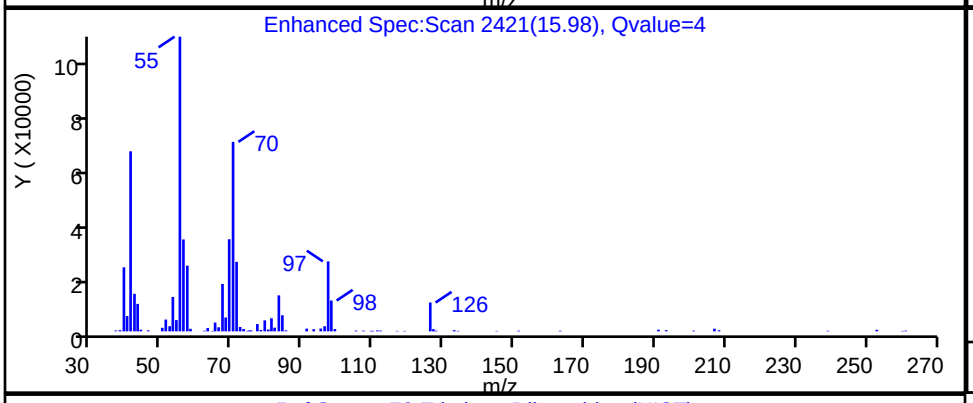
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

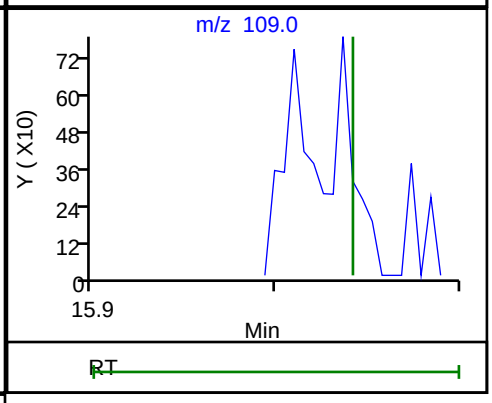
## 72 Ethylene Dibromide, CAS: 106-93-4

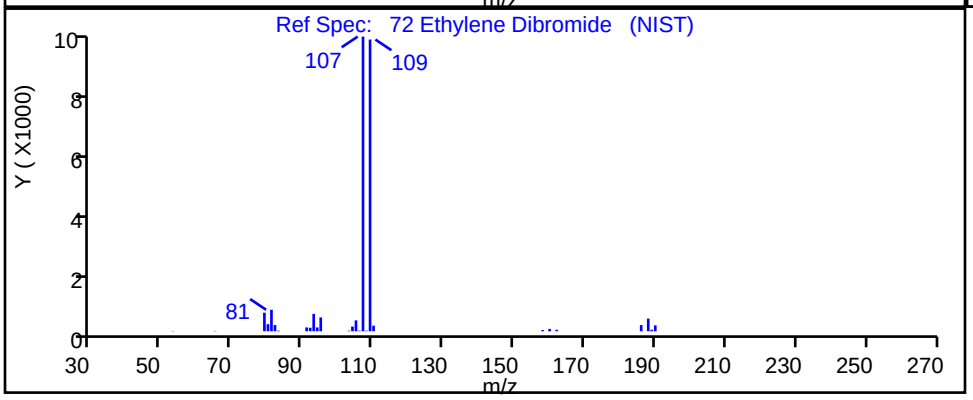
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.98 | 107.00 | 137 | 0.001455 |
| 16.04 | 109.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

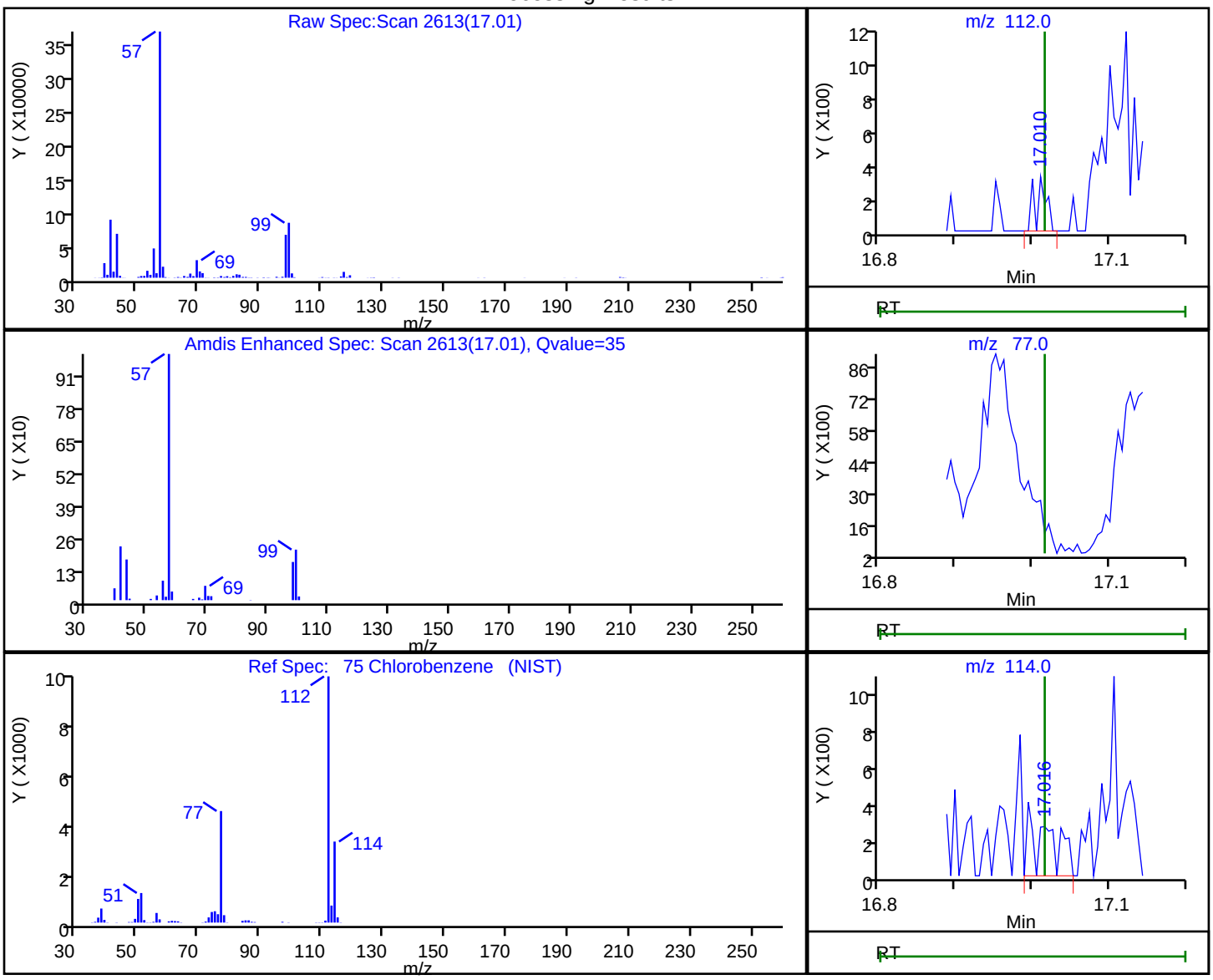
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.01 | 112.00 | 310 | 0.002338 |
| 17.02 | 114.00 | 752 | |
| 17.02 | 77.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:04:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

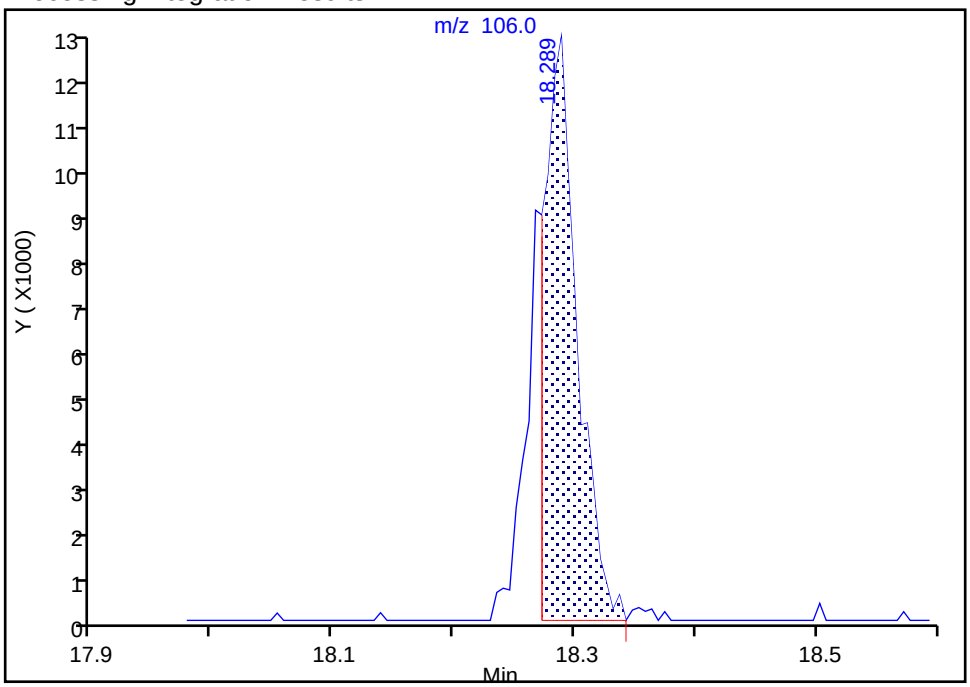
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6

Signal: 1

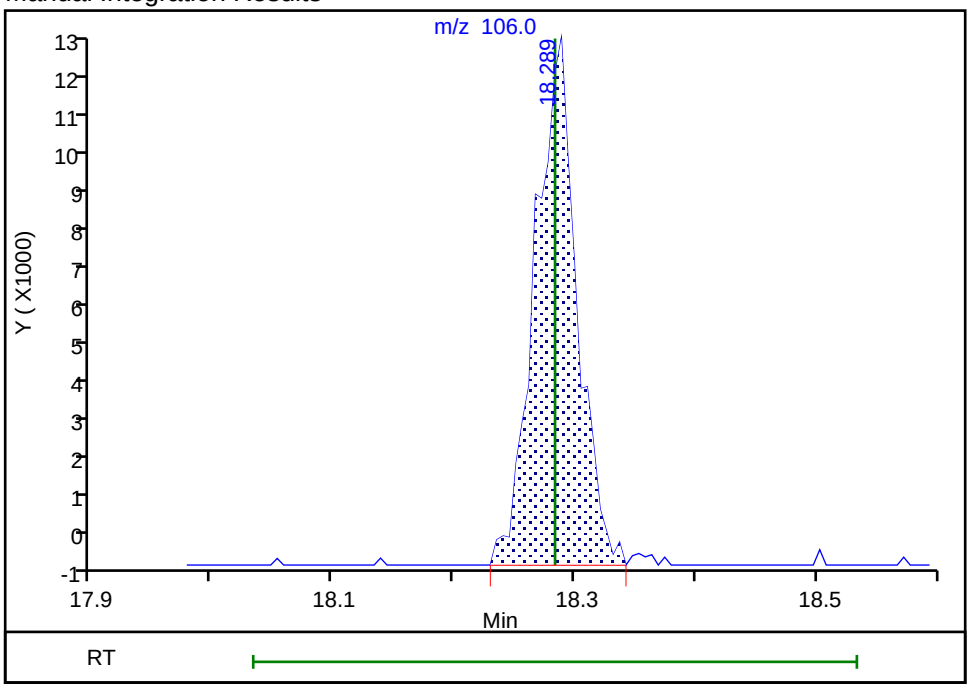
Processing Integration Results

RT: 18.29
Area: 23851
Amount: 0.318952
Amount Units: ppb v/v




Manual Integration Results

RT: 18.29
Area: 30665
Amount: 0.410073
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:05:06

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

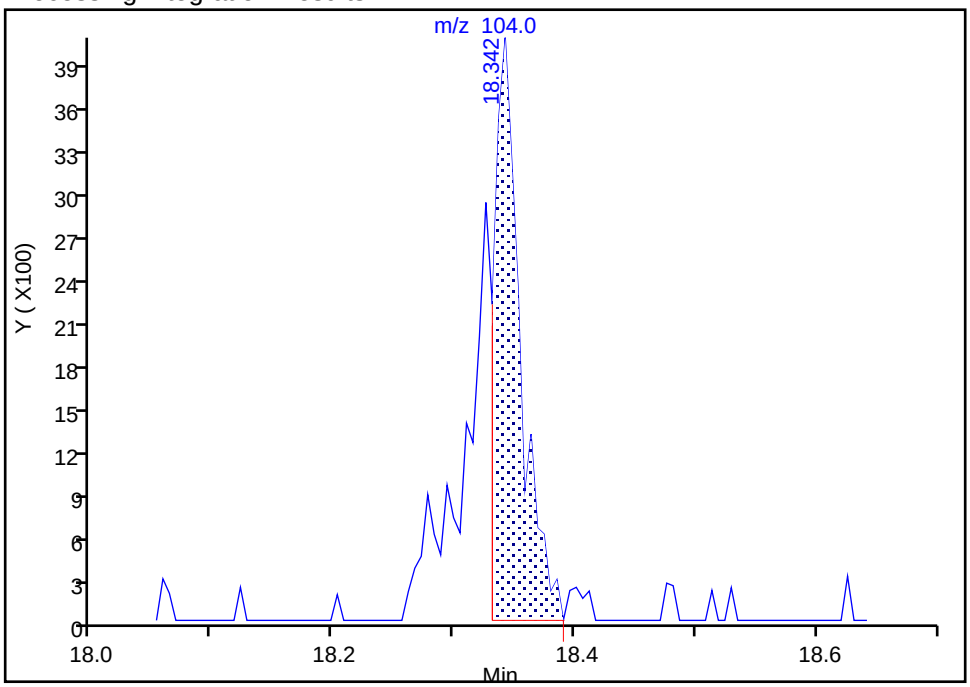
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Signal: 1

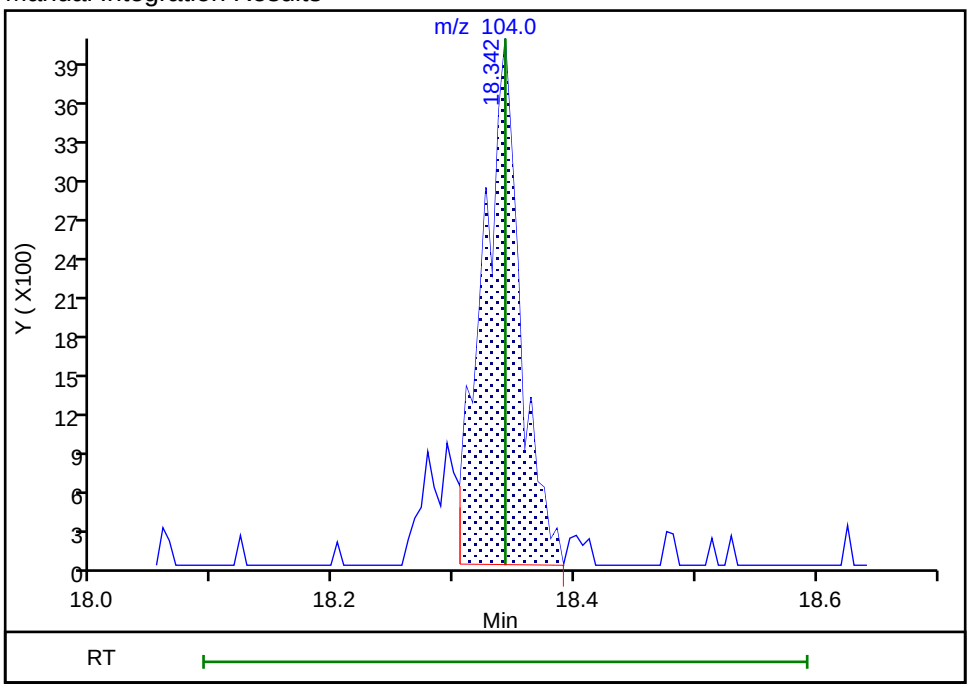
Processing Integration Results

RT: 18.34
Area: 6134
Amount: 0.053585
Amount Units: ppb v/v




Manual Integration Results

RT: 18.34
Area: 8709
Amount: 0.076079
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:05:16

Audit Action: Manually Integrated Audit Reason: Assign Peak

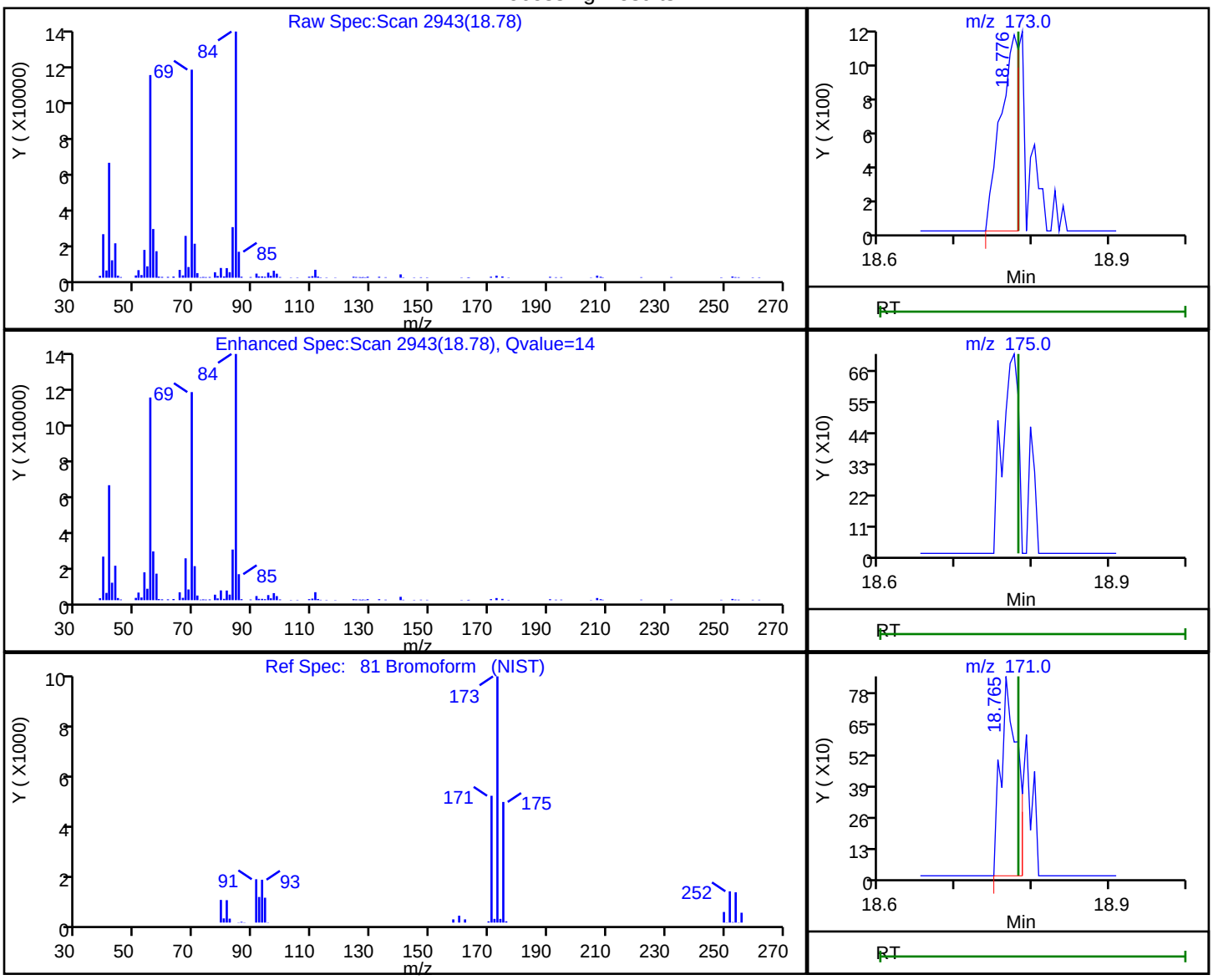
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 81 Bromoform, CAS: 75-25-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.78 | 173.00 | 1951 | 0.017295 |
| 18.78 | 175.00 | 0 | |
| 18.76 | 171.00 | 1228 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

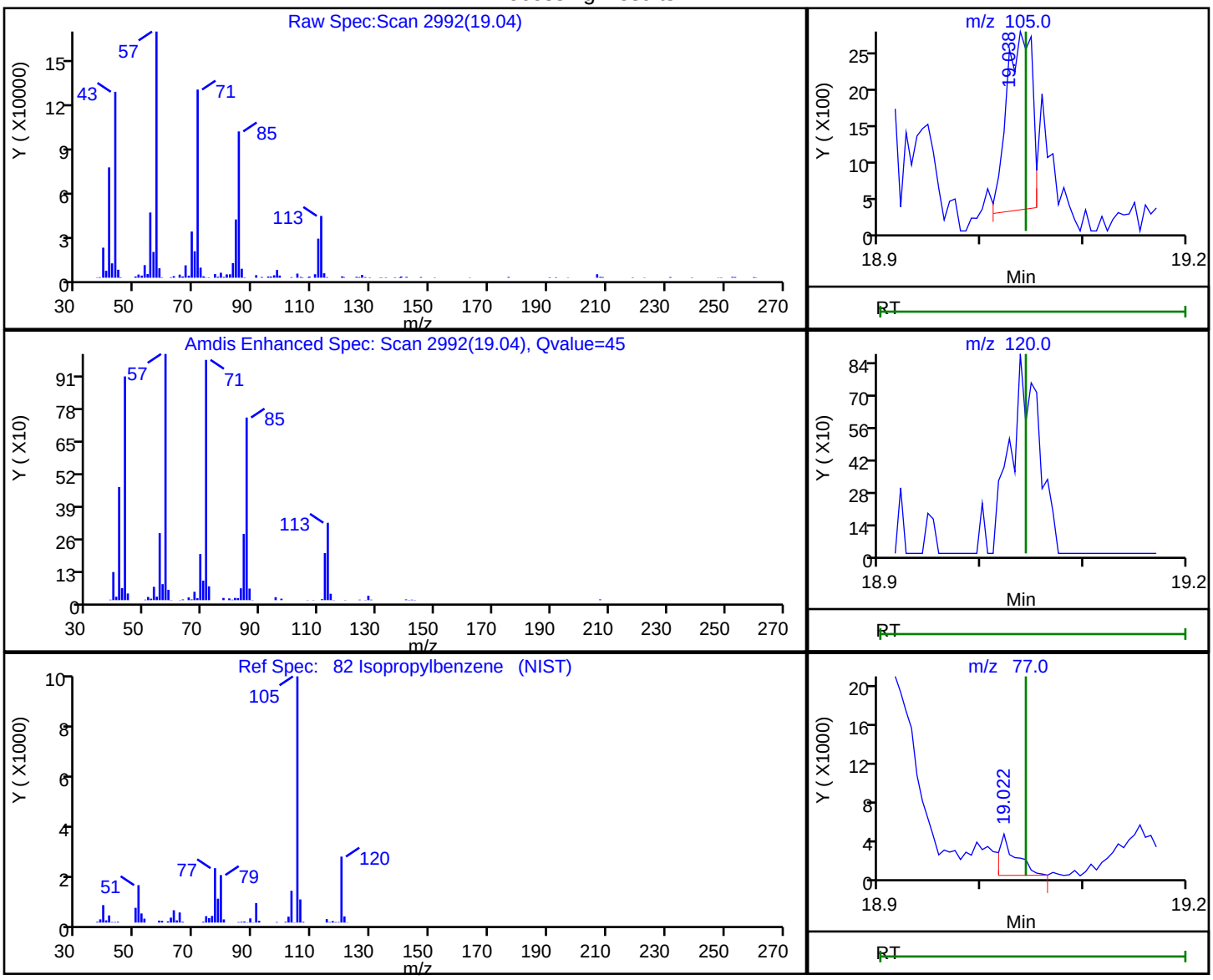
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.04 | 105.00 | 4250 | 0.019437 |
| 19.04 | 120.00 | 0 | |
| 19.02 | 77.00 | 4536 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

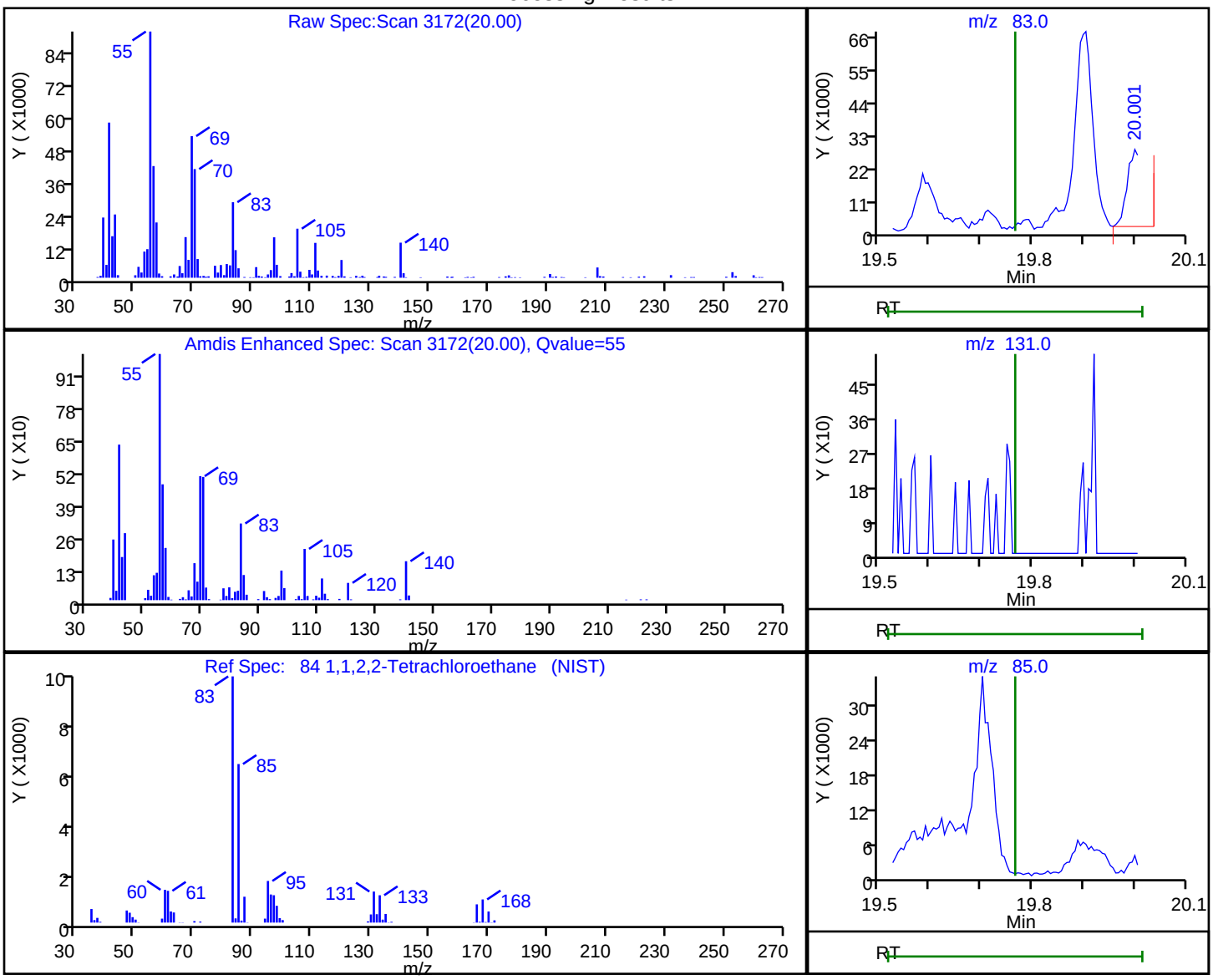
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.00 | 83.00 | 60940 | 0.510800 |
| 19.76 | 131.00 | 0 | |
| 19.76 | 85.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

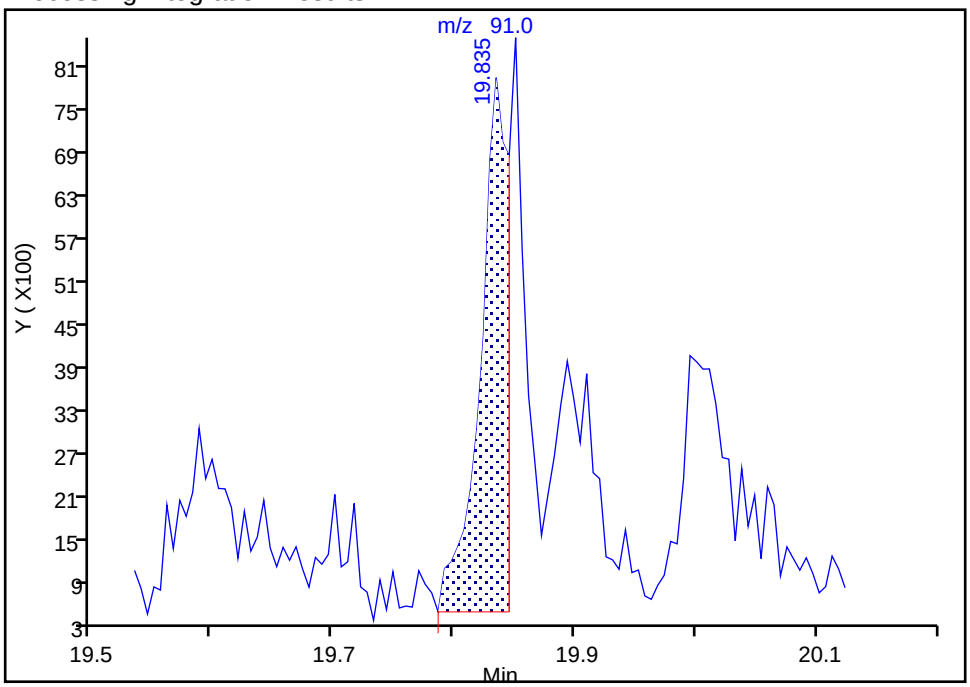
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

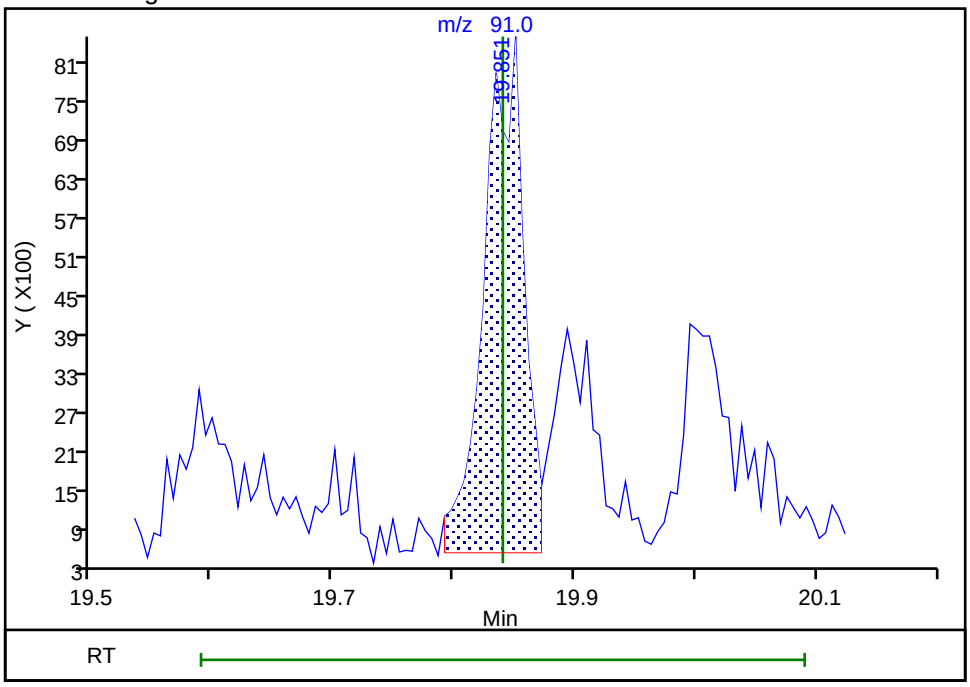
Processing Integration Results

RT: 19.83
Area: 12199
Amount: 0.046852
Amount Units: ppb v/v




Manual Integration Results

RT: 19.85
Area: 18141
Amount: 0.069673
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:05:30

Audit Action: Manually Integrated Audit Reason: Assign Peak

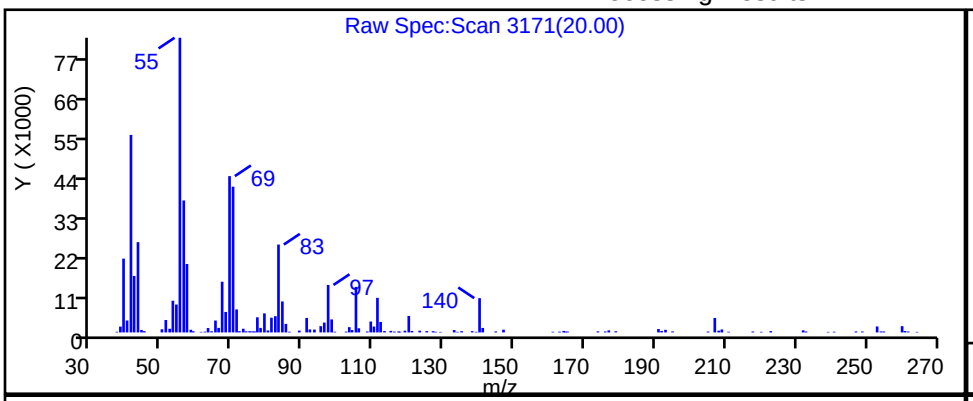
User Disabled Compound Report

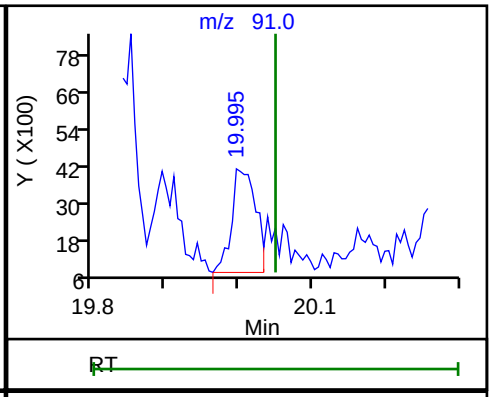
TestAmerica Burlington

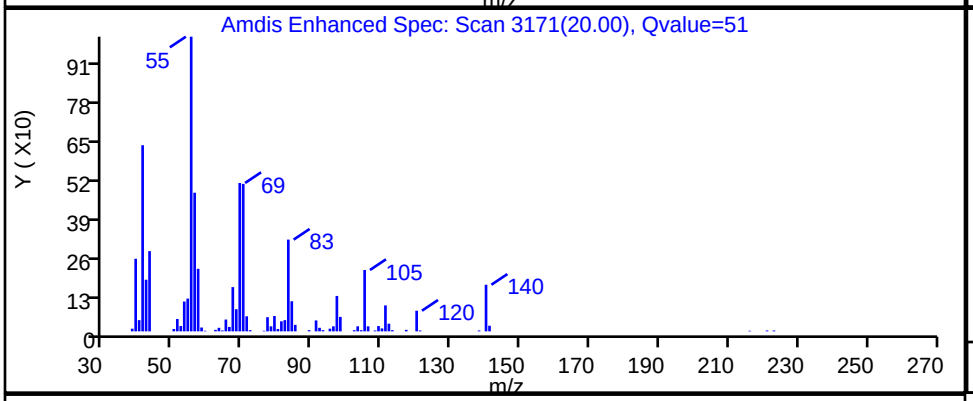
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

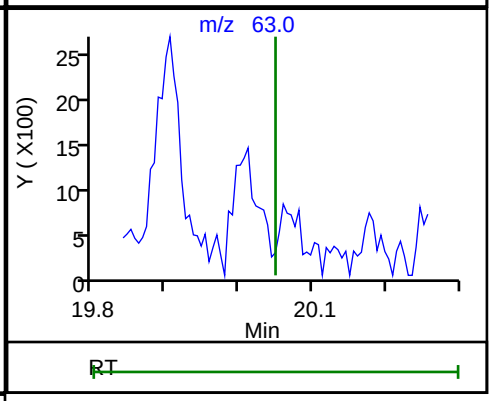
## 89 2-Chlorotoluene, CAS: 95-49-8

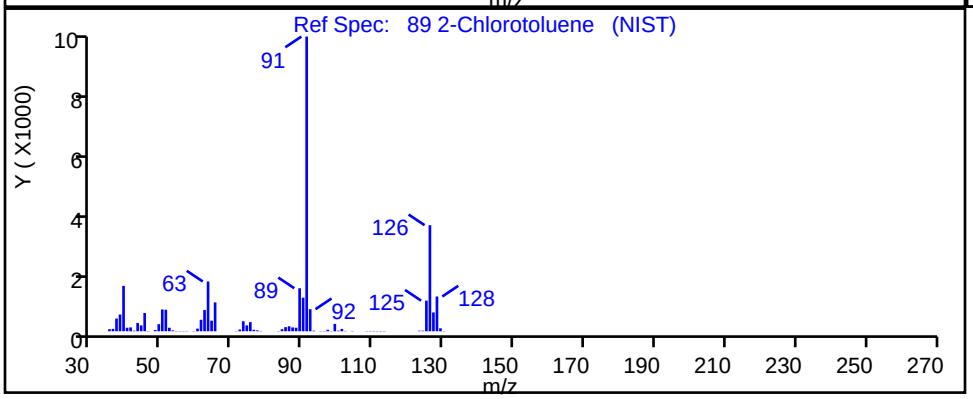
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.00 | 91.00 | 7821 | 0.039773 |
| 20.04 | 63.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

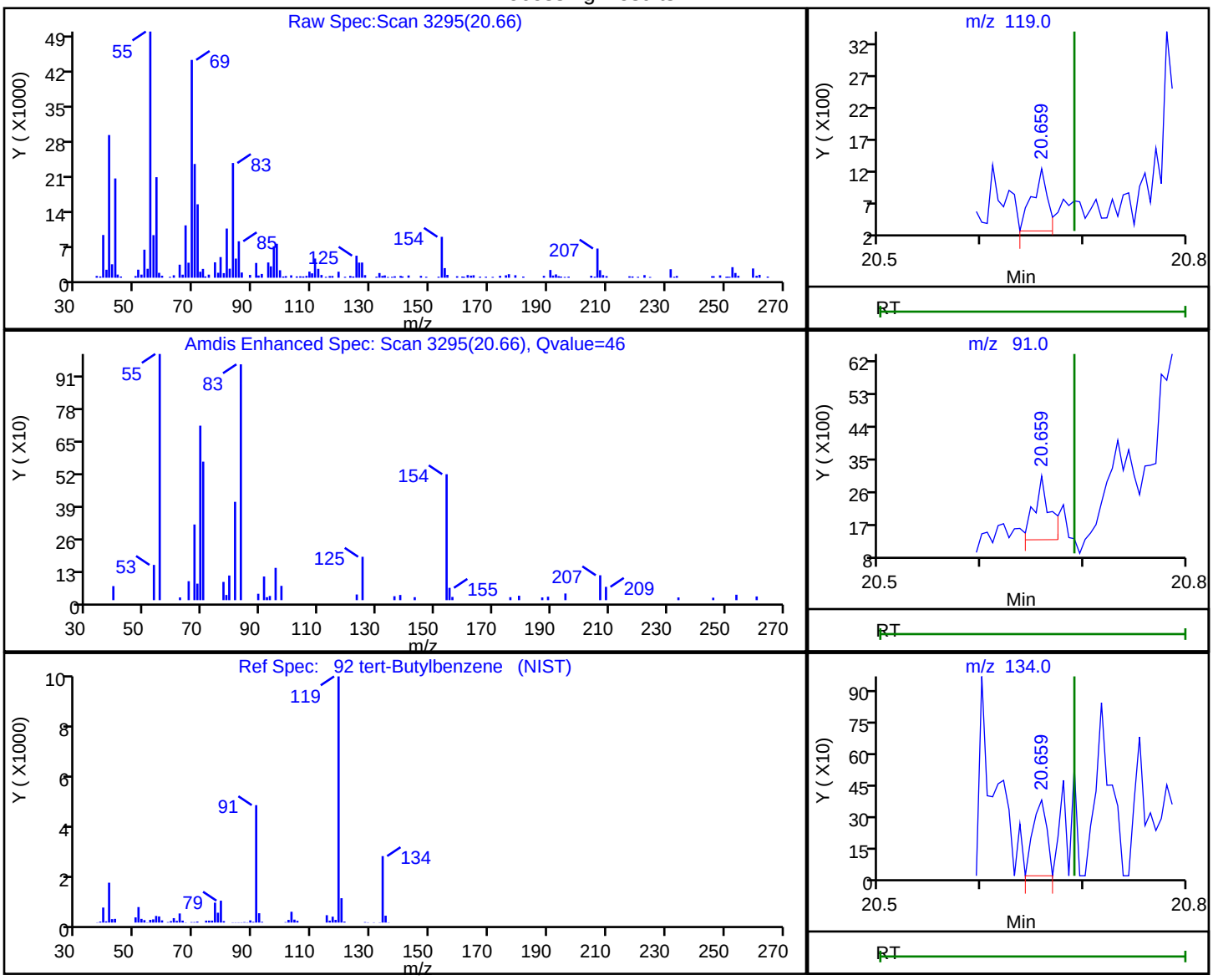
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.66 | 119.00 | 1035 | 0.005835 |
| 20.66 | 91.00 | 1867 | |
| 20.66 | 134.00 | 346 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

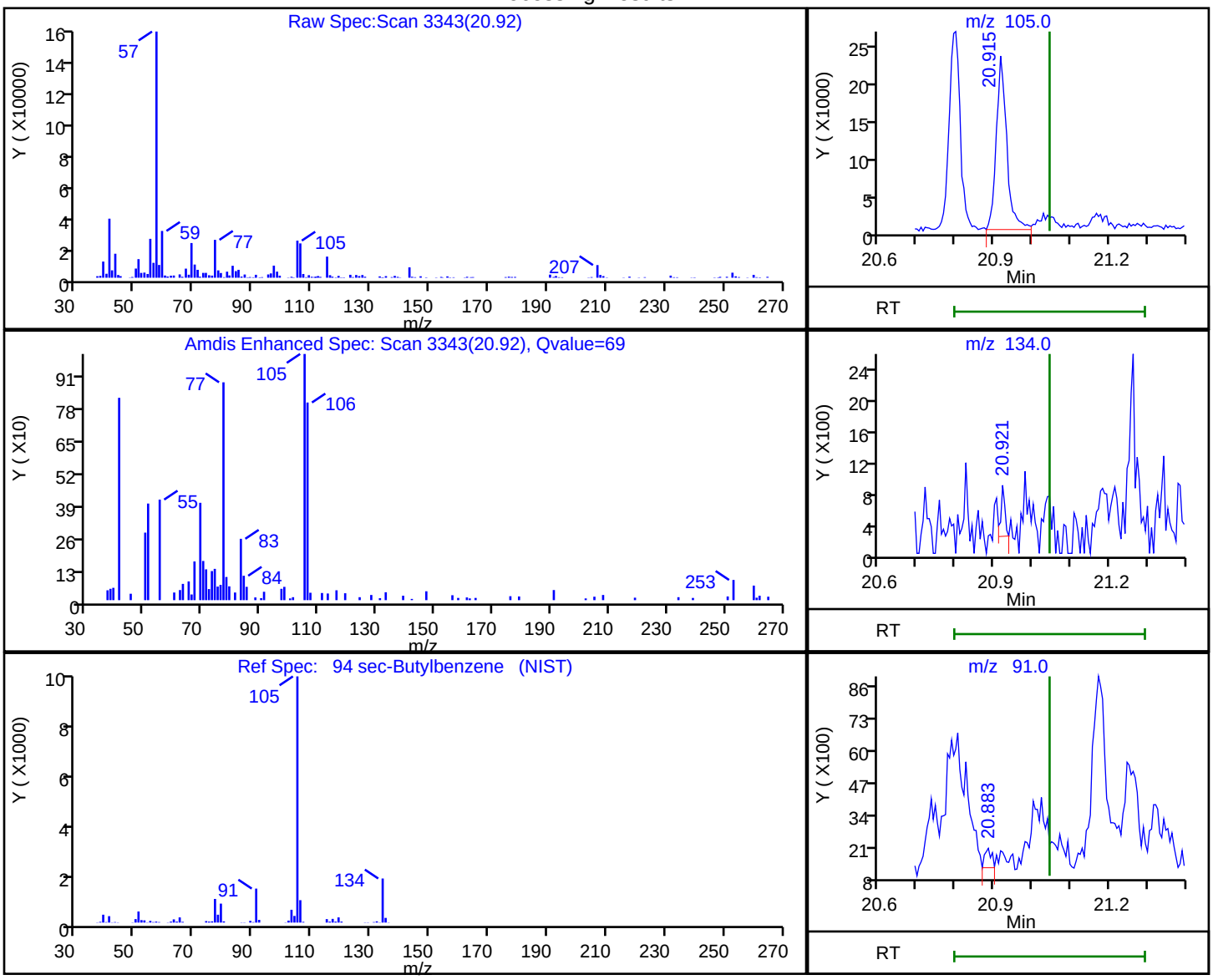
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 44213 | 0.168087 |
| 20.92 | 134.00 | 462 | |
| 20.88 | 91.00 | 976 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

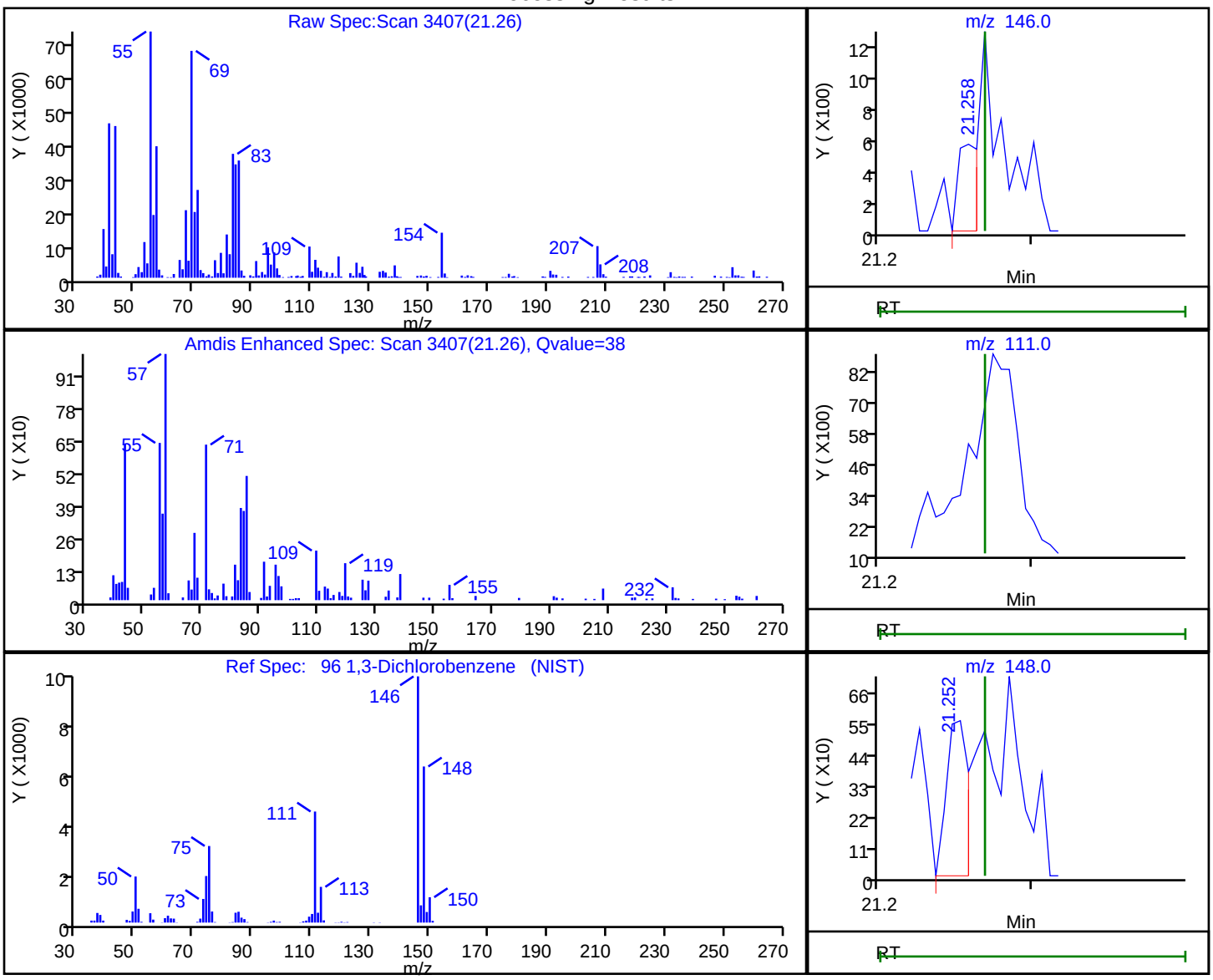
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 146.00 | 496 | 0.003271 |
| 21.27 | 111.00 | 0 | |
| 21.25 | 148.00 | 543 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

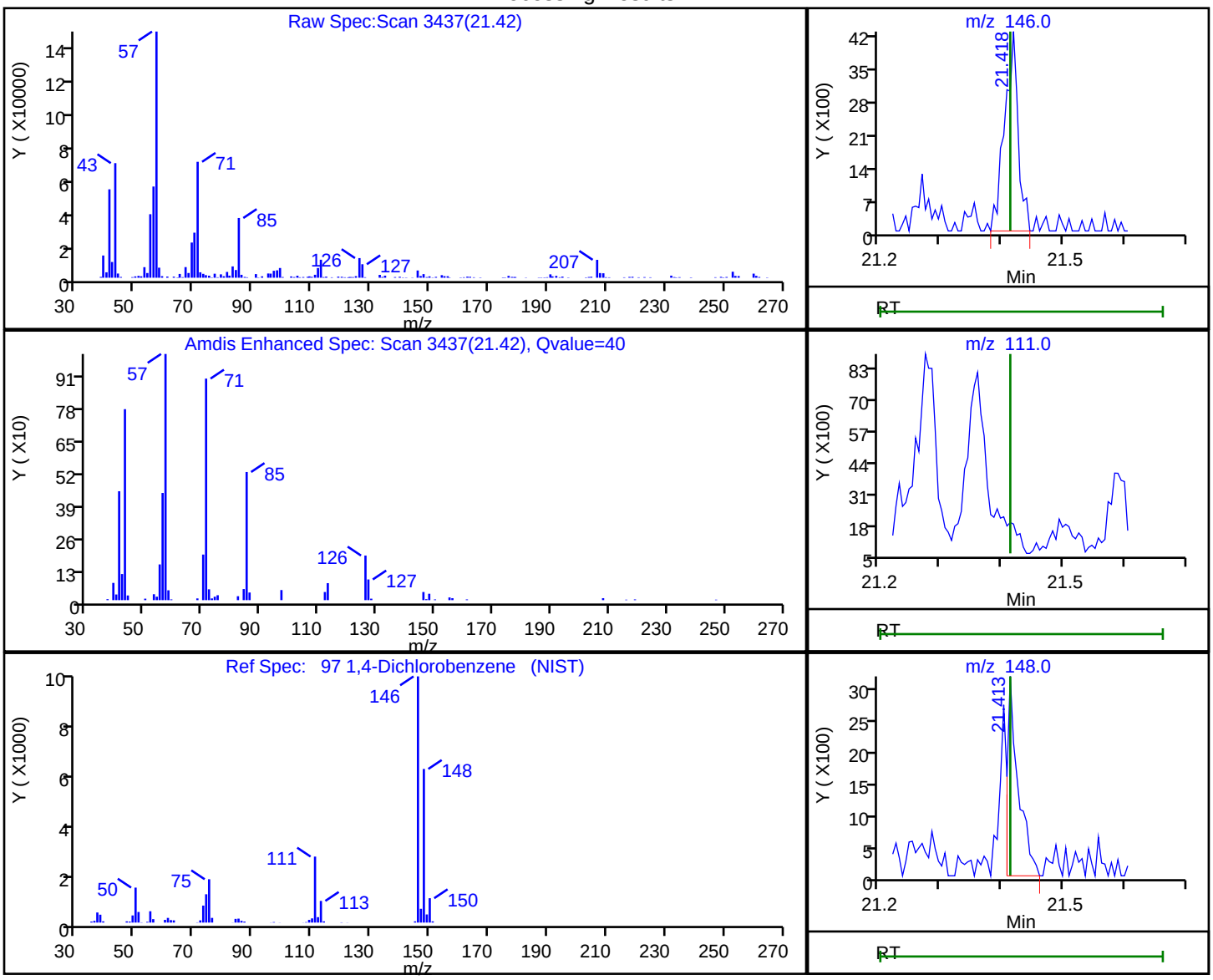
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.42 | 146.00 | 6575 | 0.045344 |
| 21.41 | 111.00 | 0 | |
| 21.41 | 148.00 | 3937 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

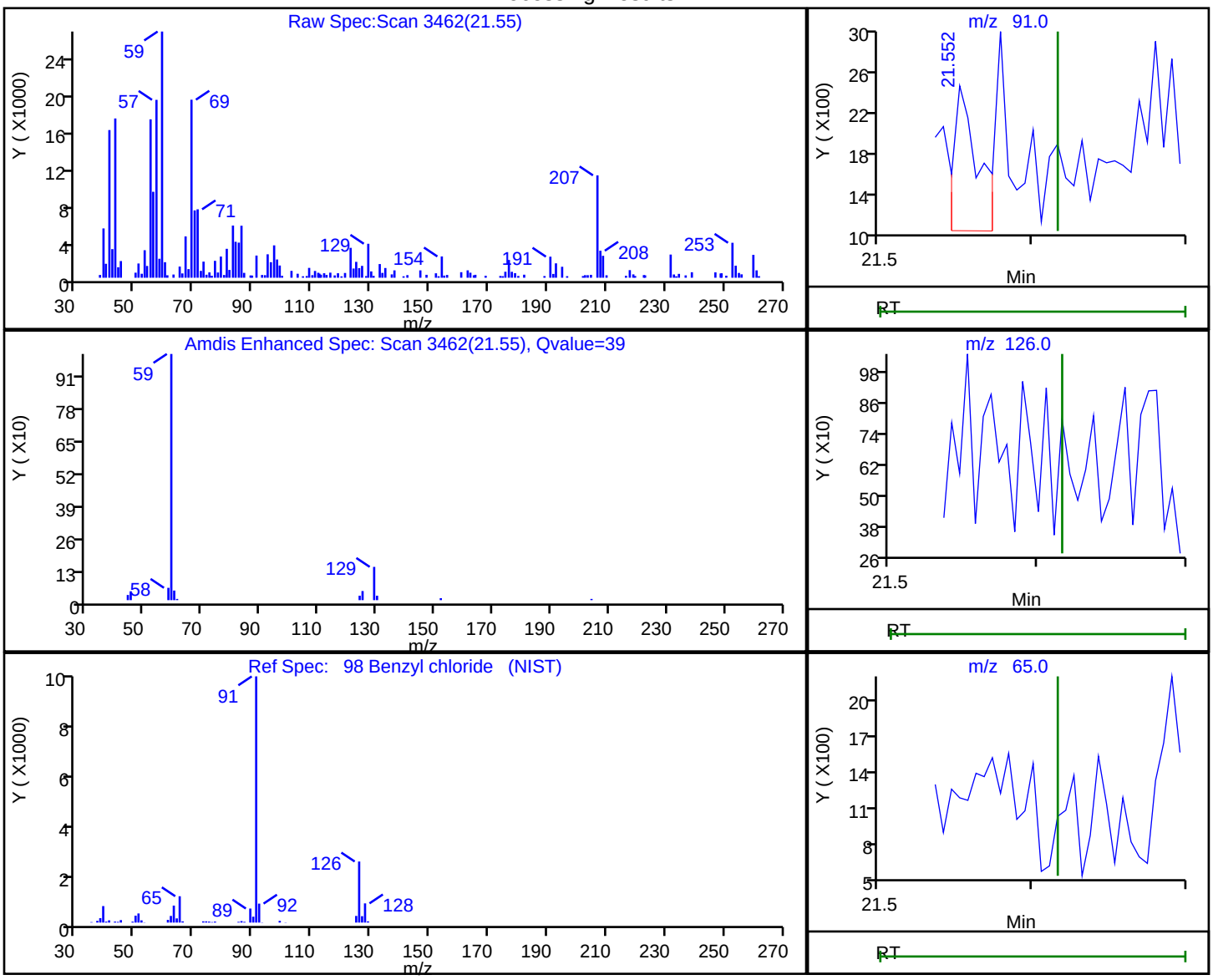
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.55 | 91.00 | 1519 | 0.008486 |
| 21.62 | 126.00 | 0 | |
| 21.62 | 65.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

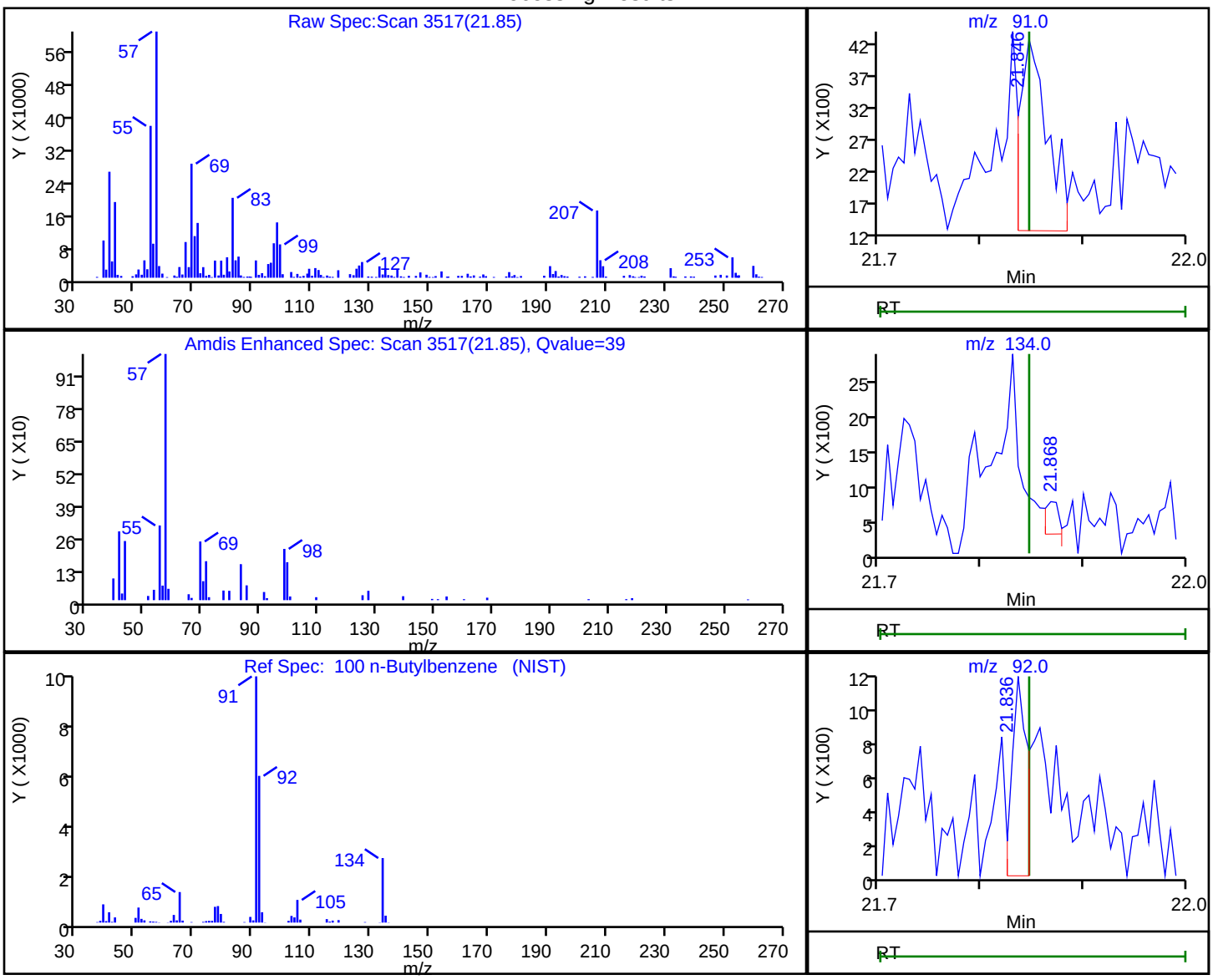
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 5571 | 0.027105 |
| 21.87 | 134.00 | 430 | |
| 21.84 | 92.00 | 1143 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

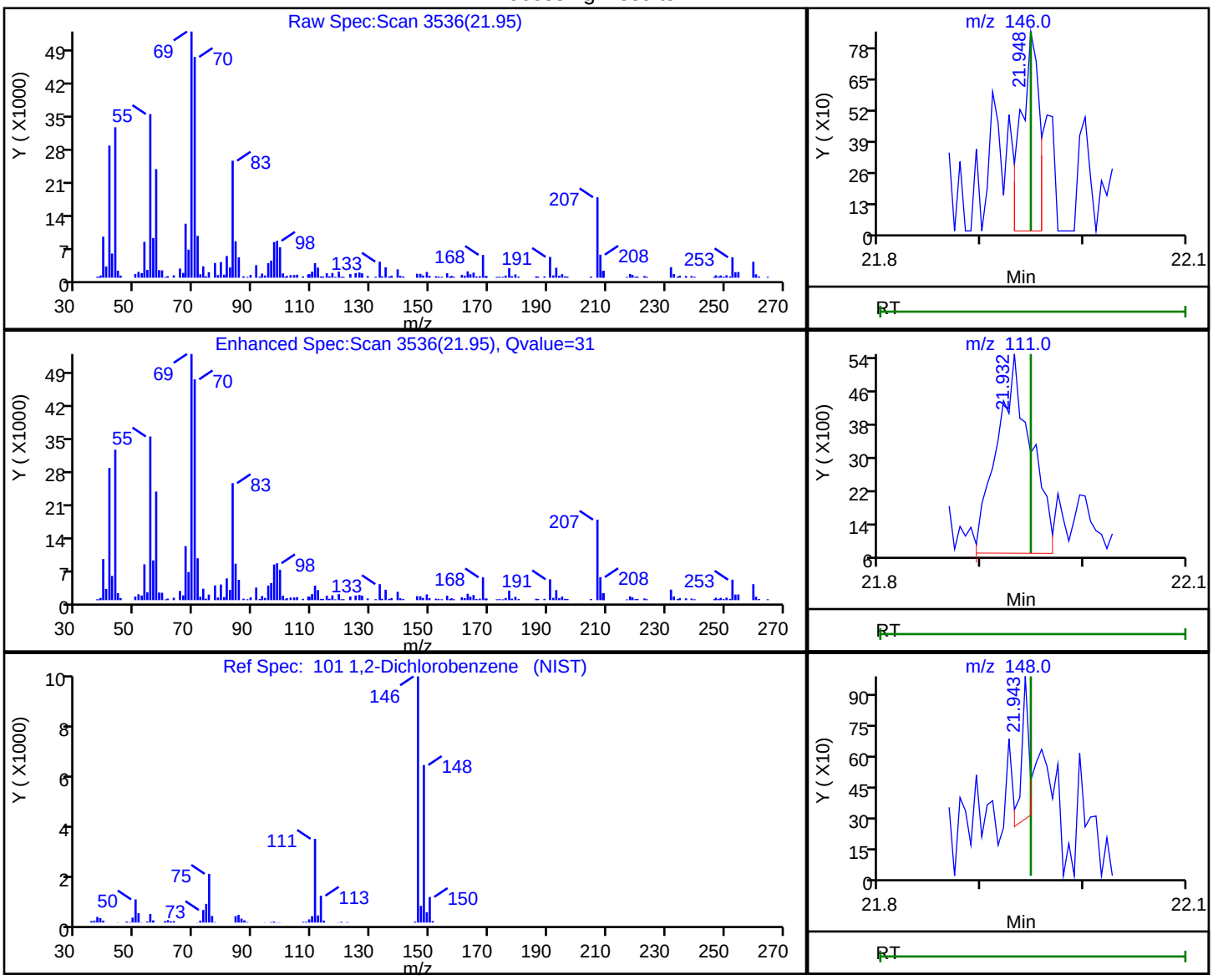
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.95 | 146.00 | 1038 | 0.007448 |
| 21.93 | 111.00 | 11236 | |
| 21.94 | 148.00 | 347 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

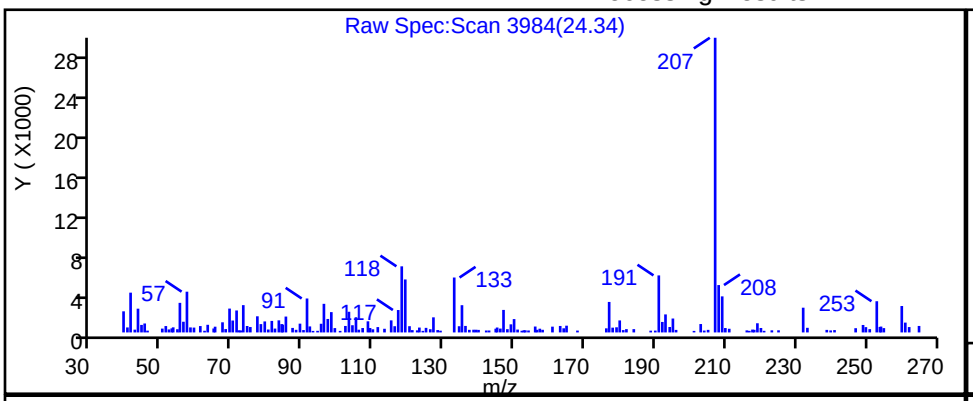
User Disabled Compound Report

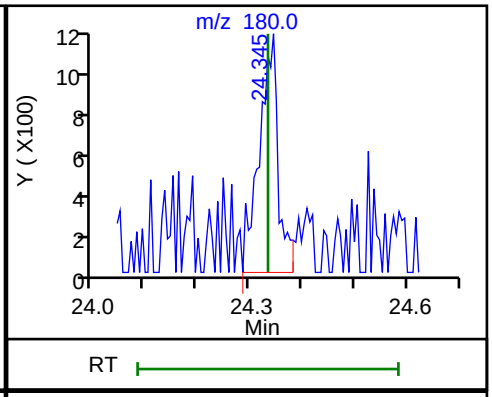
TestAmerica Burlington

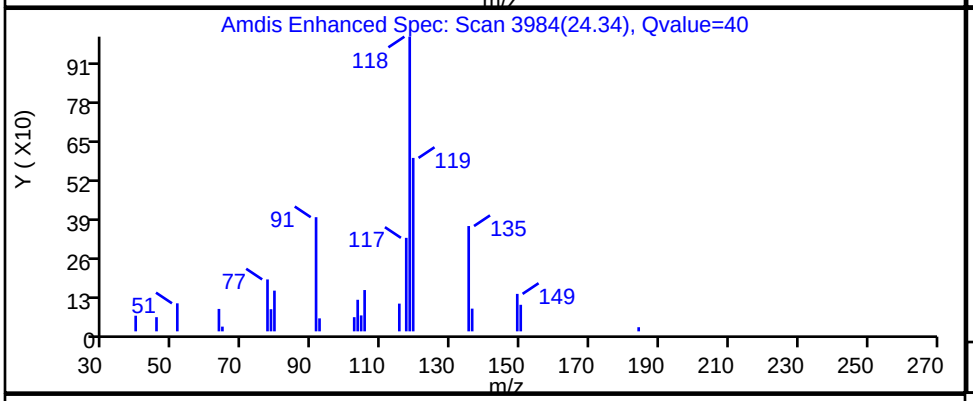
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

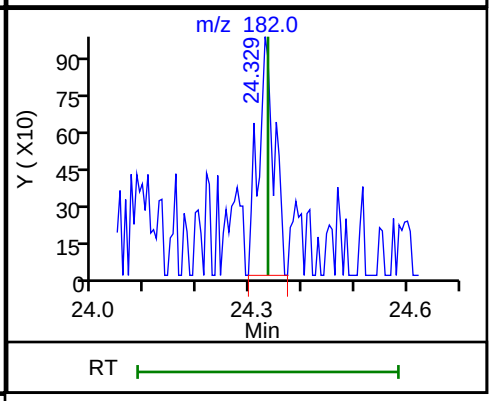
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

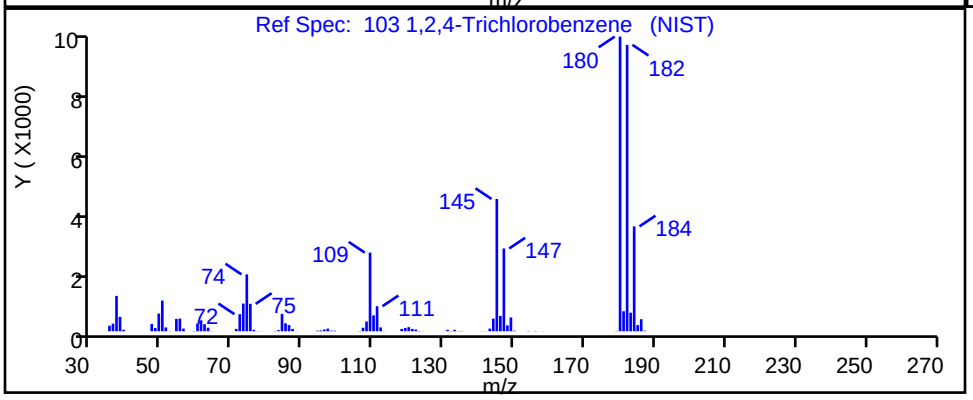
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.34 | 180.00 | 2997 | 0.028612 |
| 24.33 | 182.00 | 2091 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

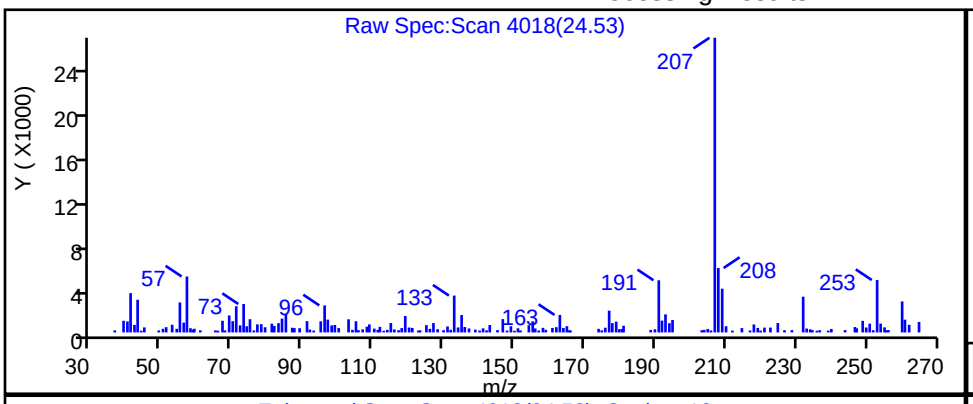
User Disabled Compound Report

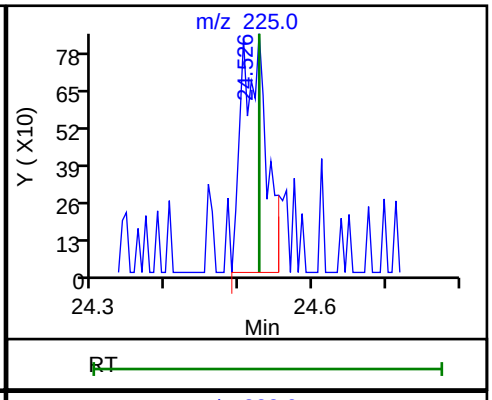
TestAmerica Burlington

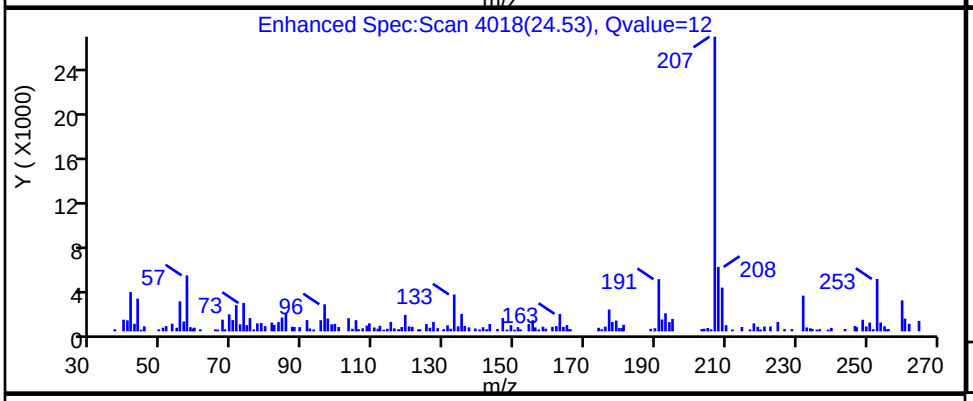
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D | | | | |
| Injection Date: | 06-Dec-2018 23:23:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-10 | Lab Sample ID: | 200-46353-10 | | |
| Client ID: | MP-4_20181120 | | | | |
| Operator ID: | ert | ALS Bottle#: | 12 | Worklist Smp#: | 12 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

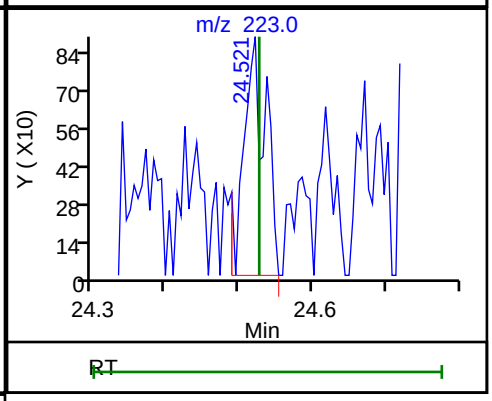
## 104 Hexachlorobutadiene, CAS: 87-68-3

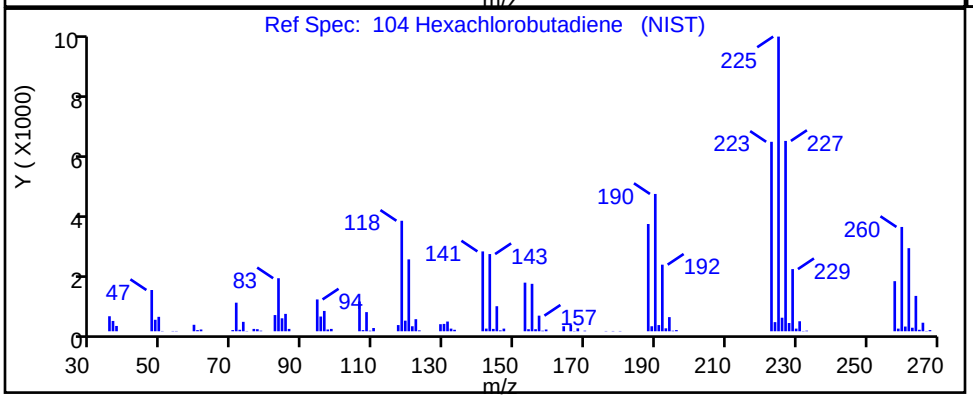
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 1942 | 0.018638 |
| 24.52 | 223.00 | 1873 | |

Reviewer: puangmaleek, 07-Dec-2018 17:05:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119  Lab Sample ID: 200-46353-11

Matrix: Air  Lab File ID: 200-33558-013.D

Analysis Method: TO-15  Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.62 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.1 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.39 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 17 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 2.4 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.43 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 6.9 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.21 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.32 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.094 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.40 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.61 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.86 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 1.1 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.36 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.34 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.76 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.22 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119  Lab Sample ID: 200-46353-11

Matrix: Air  Lab File ID: 200-33558-013.D

Analysis Method: TO-15  Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 3.1 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 2.3 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.1 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 2.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 41 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 7.5 | | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.5 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 20 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 1.0 | | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.1 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.59 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.3 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 2.5 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 3.5 | | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 4.3 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 2.4 | | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.5 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 3.3 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.94 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119  Lab Sample ID: 200-46353-11

Matrix: Air  Lab File ID: 200-33558-013.D

Analysis Method: TO-15  Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D
Lims ID: 200-46353-A-11
Client ID: MP-5_20181119
Sample Type: Client
Inject. Date: 07-Dec-2018 00:13:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033558-013
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 17:08:41 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0315

First Level Reviewer: puangmaleek Date: 07-Dec-2018 17:08:41

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.149 | -0.005 | 95 | 116218 | 0.6201 | |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | ND | U |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.336 | 3.347 | -0.011 | 94 | 9671 | 0.0686 | |
| 5 Chloromethane | 50 | 3.454 | 3.460 | -0.005 | 98 | 40885 | 1.12 | |
| 6 Butane | 43 | 3.599 | 3.600 | -0.005 | 98 | 105360 | 2.15 | |
| 7 Vinyl chloride | 62 | | 3.641 | | | | ND | |
| 8 Butadiene | 54 | | 3.695 | | | | ND | U |
| 10 Bromomethane | 94 | 4.214 | 4.208 | 0.006 | 36 | 2744 | 0.0541 | |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.685 | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | 4.754 | 4.759 | -0.005 | 98 | 57756 | 0.3899 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610 | 5.605 | 0.005 | 92 | 7448 | 0.0714 | |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | U |
| 22 Acetone | 43 | 5.851 | 5.856 | -0.005 | 99 | 680883 | 17.4 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 285043 | 2.41 | |
| 24 Isopropyl alcohol | 45 | 6.102 | 6.084 | 0.010 | 99 | 82830 | 1.92 | |
| 25 3-Chloro-1-propene | 41 | | 6.306 | | | | ND | U |
| 27 Methylene Chloride | 49 | 6.552 | 6.546 | -0.005 | 93 | 7513 | 0.1813 | |
| 28 2-Methyl-2-propanol | 59 | 6.792 | 6.758 | 0.026 | 94 | 63010 | 0.9536 | |
| 29 Methyl tert-butyl ether | 73 | 6.964 | 6.937 | 0.027 | 32 | 2980 | 0.0334 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 57 | 1961 | 0.0352 | M |
| 33 Hexane | 57 | 7.285 | 7.290 | -0.006 | 89 | 19279 | 0.4347 | |
| 34 1,1-Dichloroethane | 63 | | 7.723 | | | | ND | U |
| 37 cis-1,2-Dichloroethene | 96 | | 8.729 | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.820 | 0.000 | 99 | 97304 | 6.93 | |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.157 | -0.011 | 73 | 502379 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.205 | | | | ND | U |
| 42 Chloroform | 83 | 9.269 | 9.264 | 0.000 | 96 | 22133 | 0.2109 | |
| 43 Cyclohexane | 84 | 9.521 | 9.526 | -0.010 | 93 | 14582 | 0.3187 | |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | U |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.767 | 0.000 | 85 | 11128 | 0.0940 | |
| 46 Isooctane | 57 | 10.179 | 10.195 | -0.021 | 88 | 19542 | 0.1291 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 47 Benzene | 78 | 10.211 | 10.211 | -0.005 | 95 | 42488 | 0.4003 | |
| 48 1,2-Dichloroethane | 62 | 10.366 | 10.377 | -0.016 | 59 | 4786 | 0.0780 | |
| 49 n-Heptane | 43 | 10.564 | 10.537 | -0.005 | 92 | 33153 | 0.6071 | |
| * 50 1,4-Difluorobenzene | 114 | 11.008 | 11.019 | -0.011 | 93 | 1993319 | 10.0 | |
| 53 Trichloroethene | 95 | 11.473 | 11.473 | -0.011 | 27 | 1286 | 0.0185 | M |
| 54 1,2-Dichloropropane | 63 | | 12.019 | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.201 | | | | ND | |
| 56 1,4-Dioxane | 88 | 12.324 | 12.324 | 0.043 | 61 | 9176 | 0.4703 | M |
| 58 Dichlorobromomethane | 83 | | 12.554 | | | | ND | U |
| 60 cis-1,3-Dichloropropene | 75 | | 13.474 | | | | ND | U |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.800 | 13.795 | 0.010 | 96 | 59028 | 0.8552 | |
| 65 Toluene | 92 | 14.052 | 14.063 | -0.011 | 95 | 97164 | 1.15 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.656 | | | | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.026 | | | | ND | |
| 68 Tetrachloroethene | 166 | 15.138 | 15.143 | 0.000 | 95 | 36227 | 0.3567 | |
| 69 2-Hexanone | 43 | | 15.507 | | | | ND | U |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | |
| 72 Ethylene Dibromide | 107 | | 16.042 | | | | ND | |
| * 74 Chlorobenzene-d5 | 117 | 16.951 | 16.957 | -0.006 | 84 | 2094054 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.016 | | | | ND | U |
| 76 Ethylbenzene | 91 | 17.176 | 17.176 | -0.005 | 98 | 64153 | 0.3359 | |
| 78 m-Xylene & p-Xylene | 106 | 17.428 | 17.428 | -0.010 | 0 | 59112 | 0.7634 | M |
| 79 o-Xylene | 106 | 18.278 | 18.289 | -0.005 | 97 | 15914 | 0.2163 | |
| 80 Styrene | 104 | | 18.342 | | | | ND | U |
| 81 Bromoform | 173 | | 18.781 | | | | ND | U |
| 82 Isopropylbenzene | 105 | | 19.043 | | | | ND | U |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | U |
| 85 N-Propylbenzene | 91 | | 19.840 | | | | ND | U |
| 89 2-Chlorotoluene | 91 | | 20.049 | | | | ND | U |
| 88 4-Ethyltoluene | 105 | | 20.054 | | | | ND | U |
| 90 1,3,5-Trimethylbenzene | 105 | | 20.172 | | | | ND | U |
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | 20.787 | 20.798 | -0.011 | 58 | 6058 | 0.0329 | |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | U |
| 95 4-Isopropyltoluene | 119 | | 21.263 | | | | ND | U |
| 96 1,3-Dichlorobenzene | 146 | | 21.269 | | | | ND | U |
| 97 1,4-Dichlorobenzene | 146 | | 21.413 | | | | ND | U |
| 98 Benzyl chloride | 91 | | 21.616 | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.846 | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | | 21.948 | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | | 24.334 | | | | ND | U |
| 104 Hexachlorobutadiene | 225 | | 24.527 | | | | ND | U |
| 105 Naphthalene | 128 | | 24.773 | | | | ND | U |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15GIS_00015 | Amount Added: | 20.00 | Units: mL | Run Reagent |

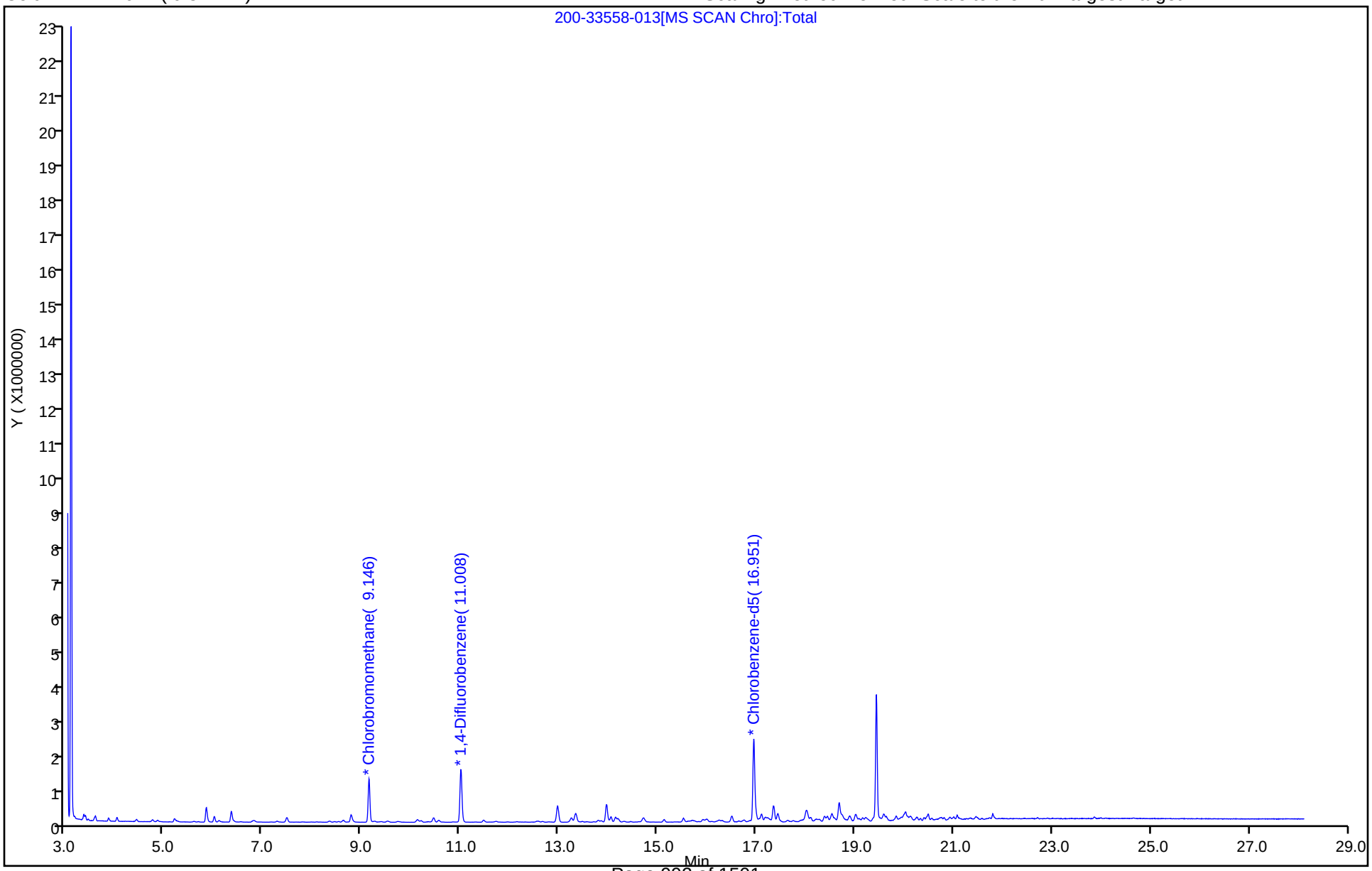
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | Worklist Smp#: | 13 |
| Client ID: | MP-5_20181119 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 13 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



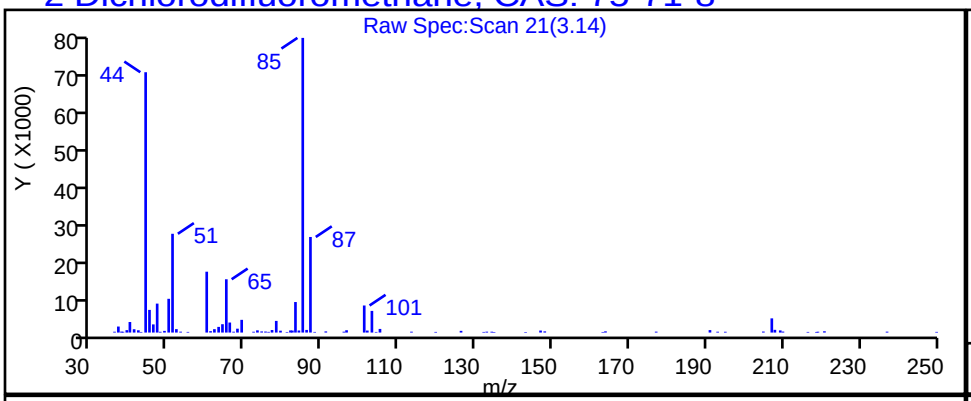
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

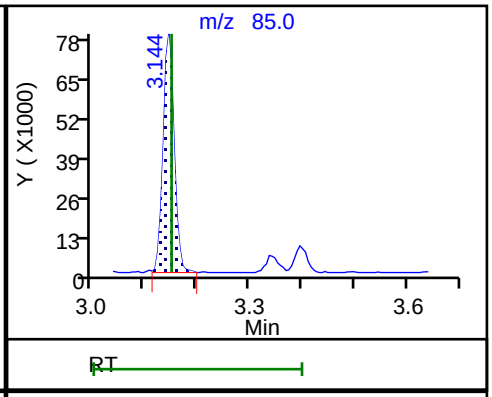
TestAmerica Burlington

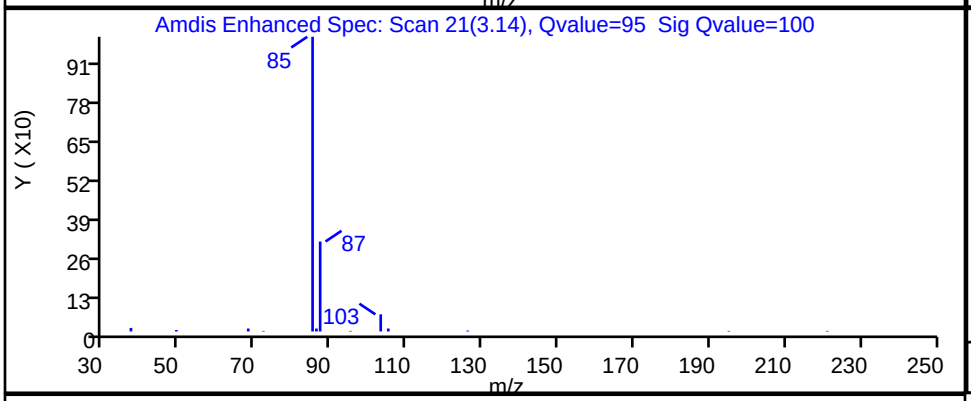
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

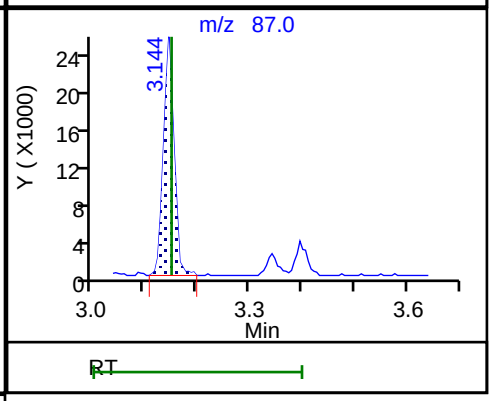
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

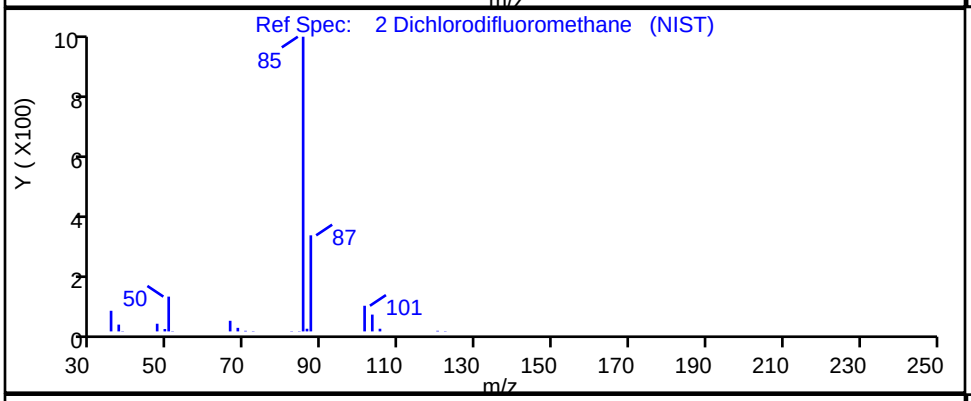
## 2 Dichlorodifluoromethane, CAS: 75-71-8

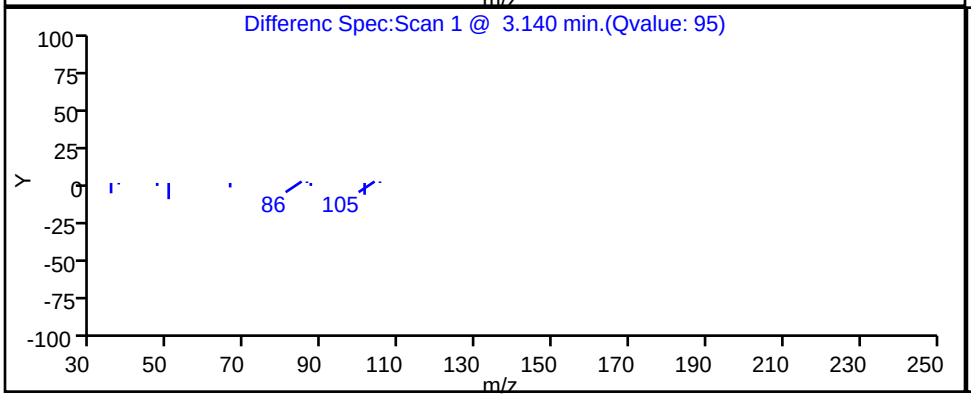


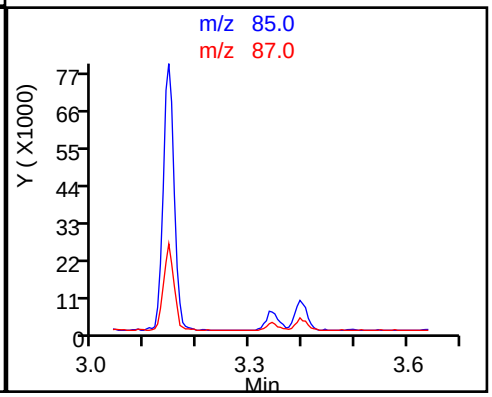



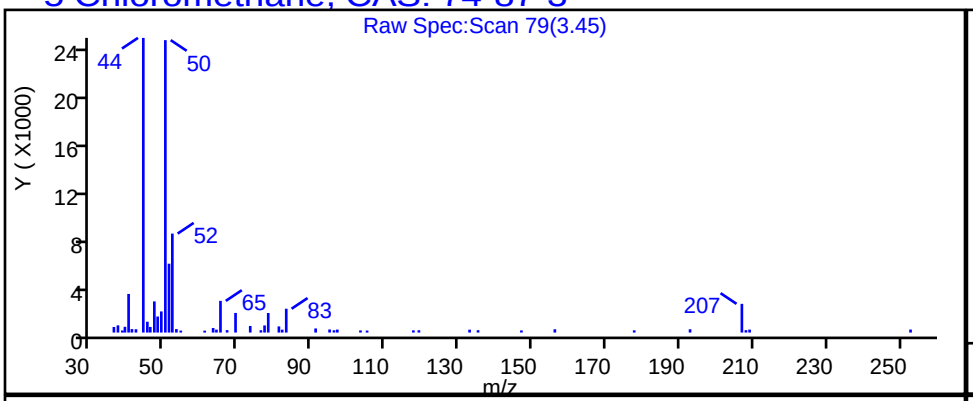
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

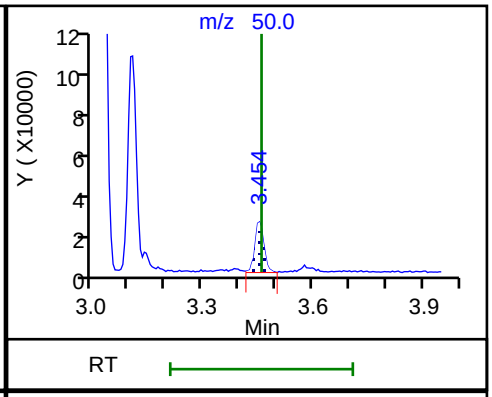
TestAmerica Burlington

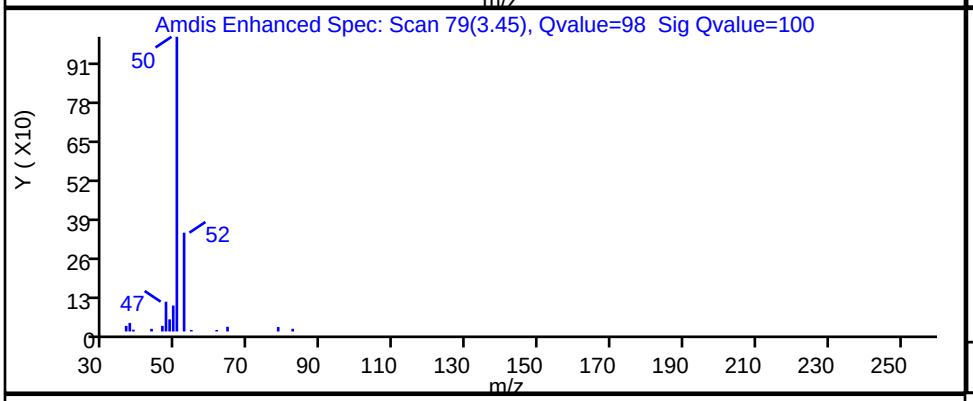
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

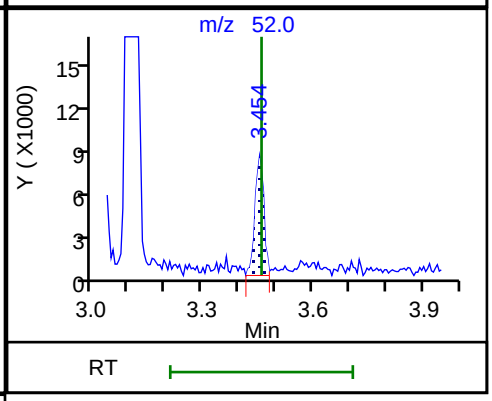
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

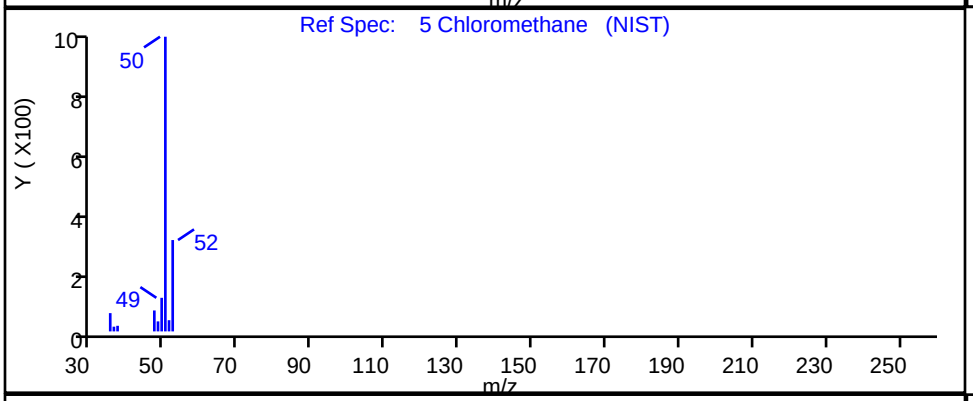
## 5 Chloromethane, CAS: 74-87-3

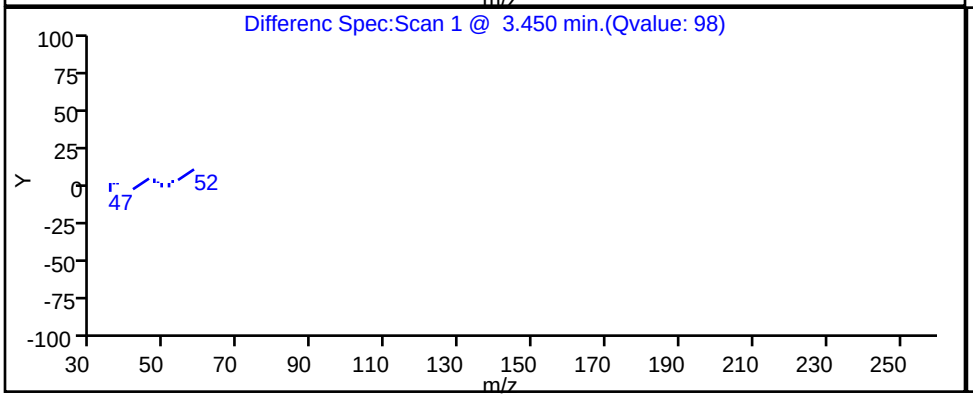


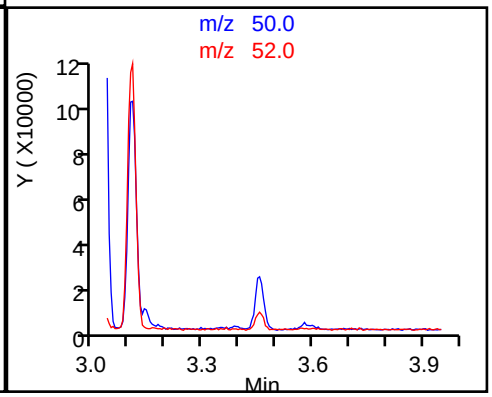



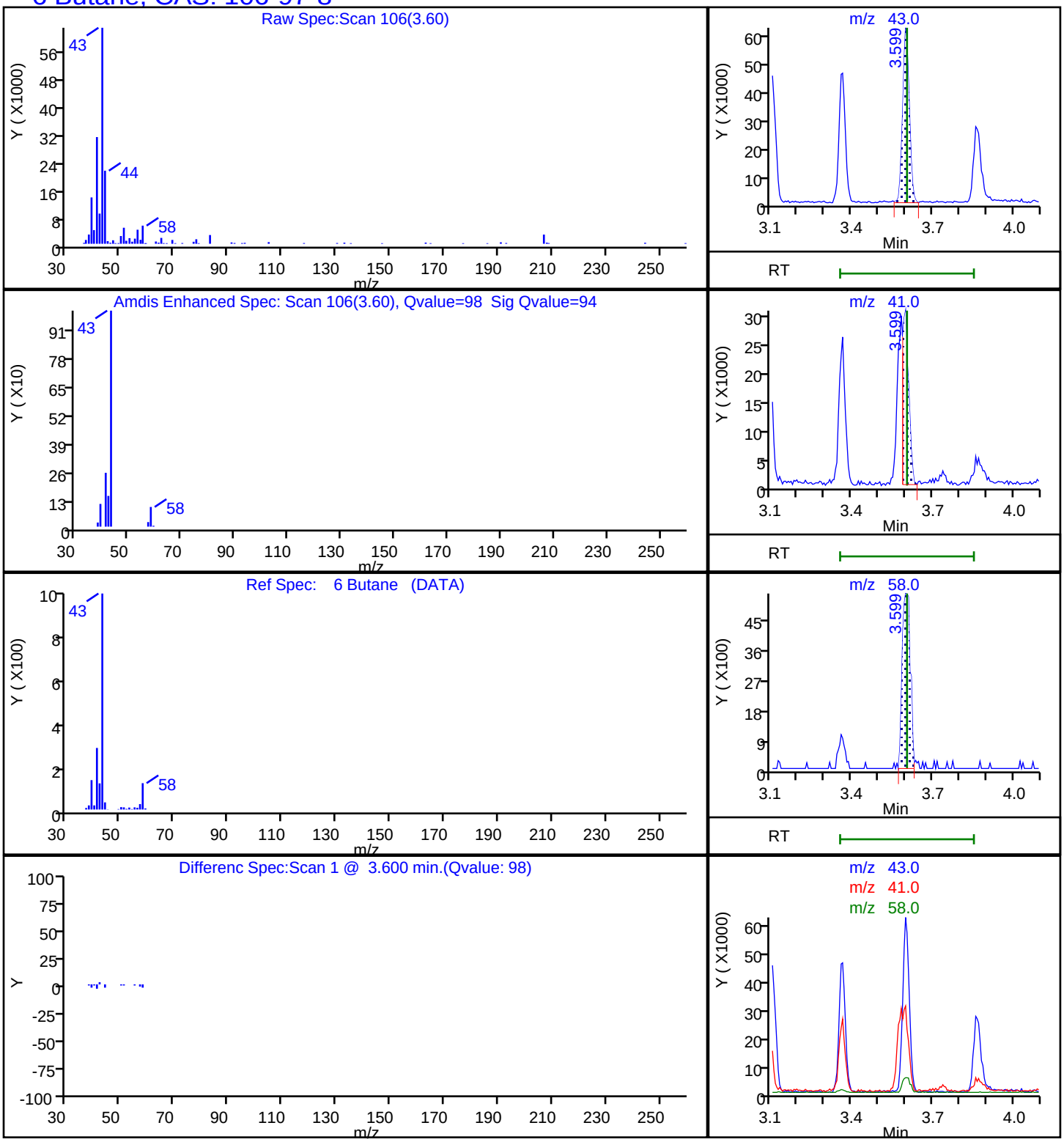
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8



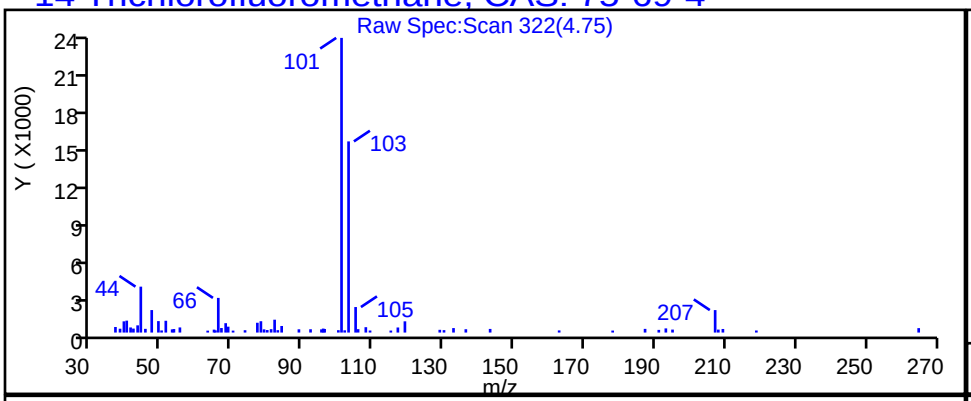
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

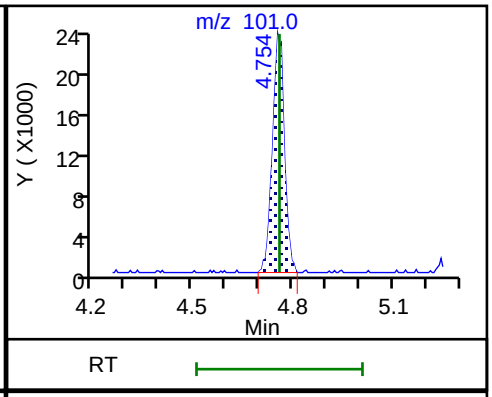
TestAmerica Burlington

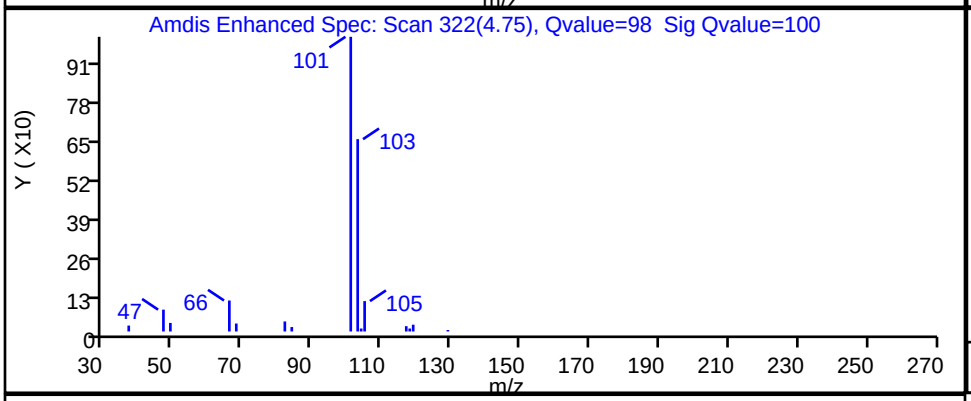
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

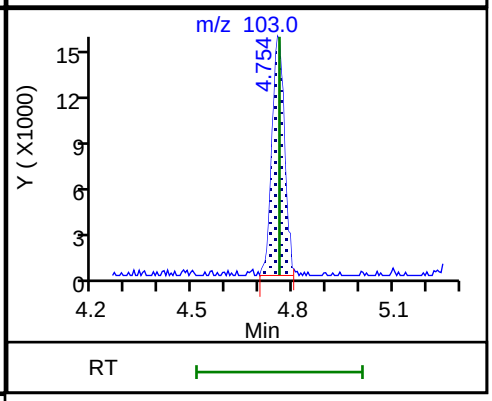
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

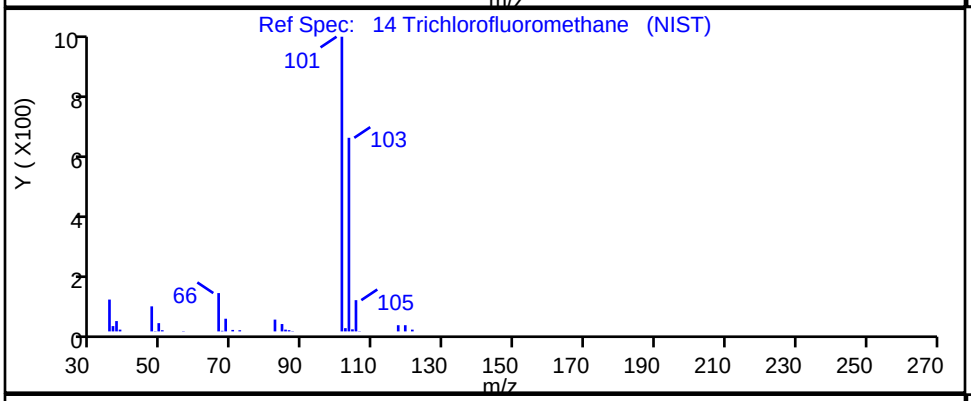
## 14 Trichlorofluoromethane, CAS: 75-69-4

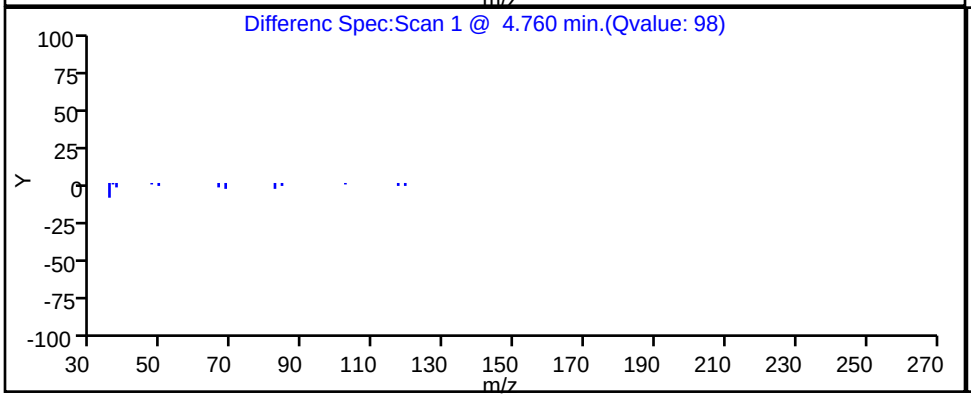


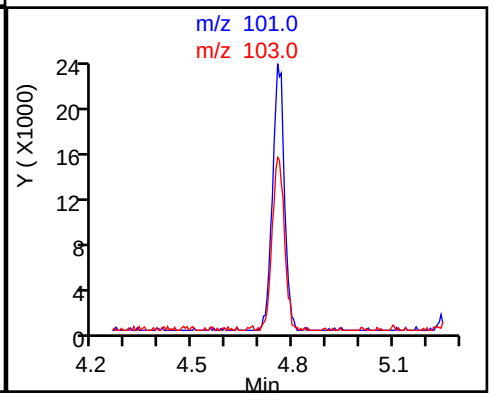



Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

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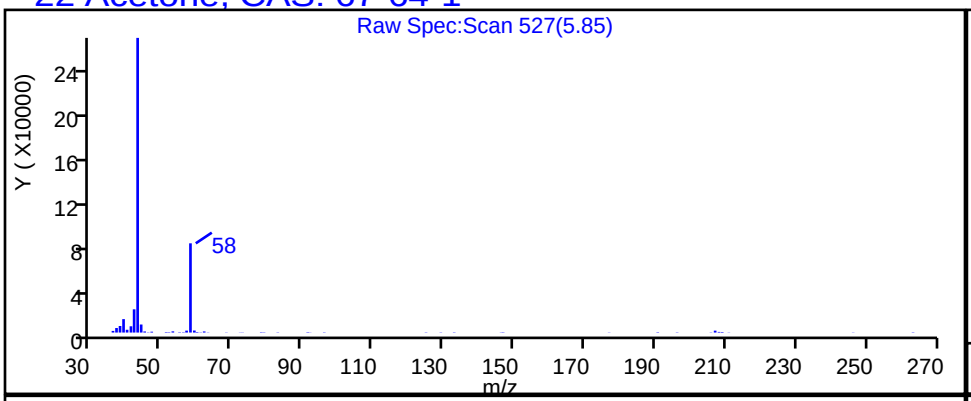
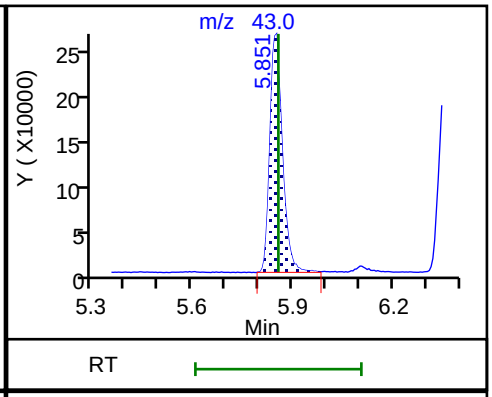
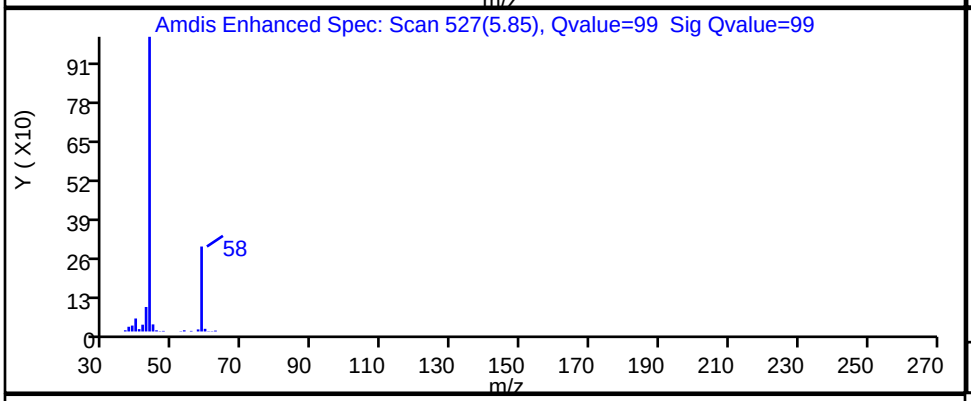
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

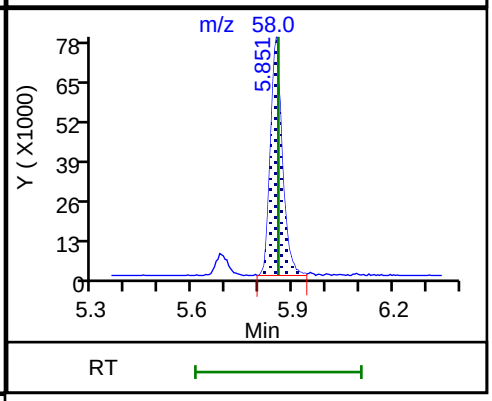
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

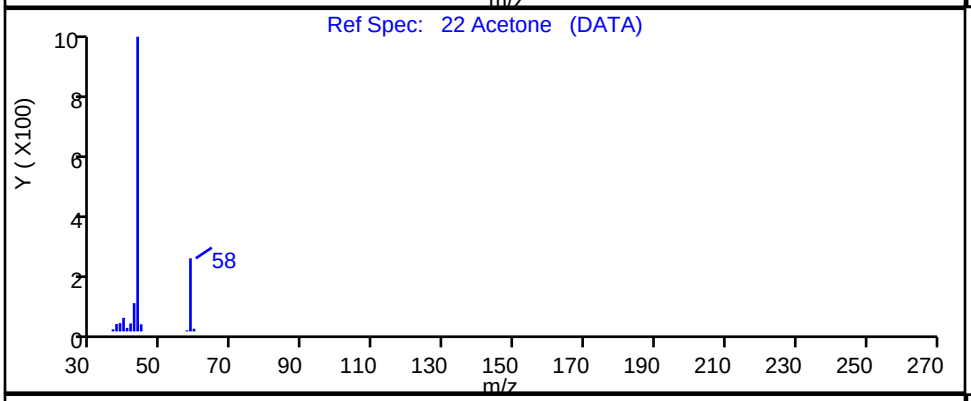
## 22 Acetone, CAS: 67-64-1

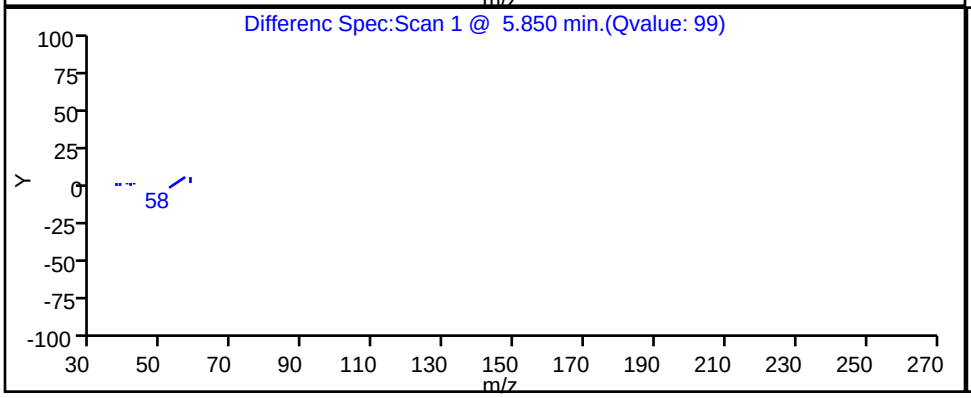


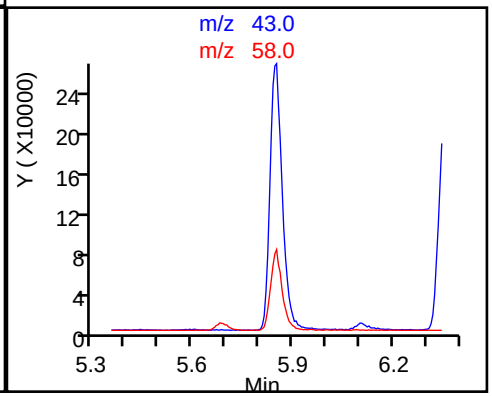



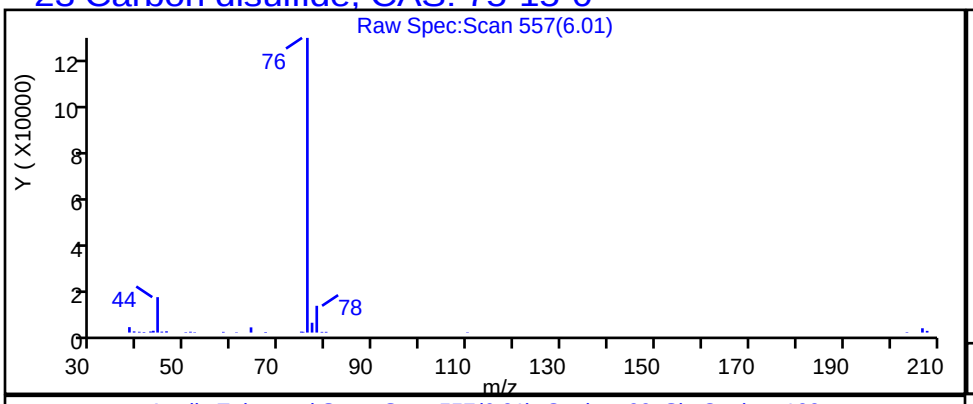
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

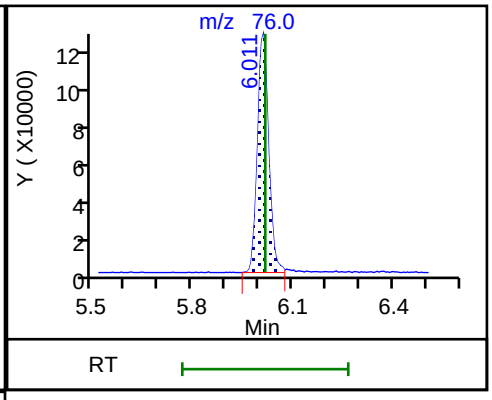
TestAmerica Burlington

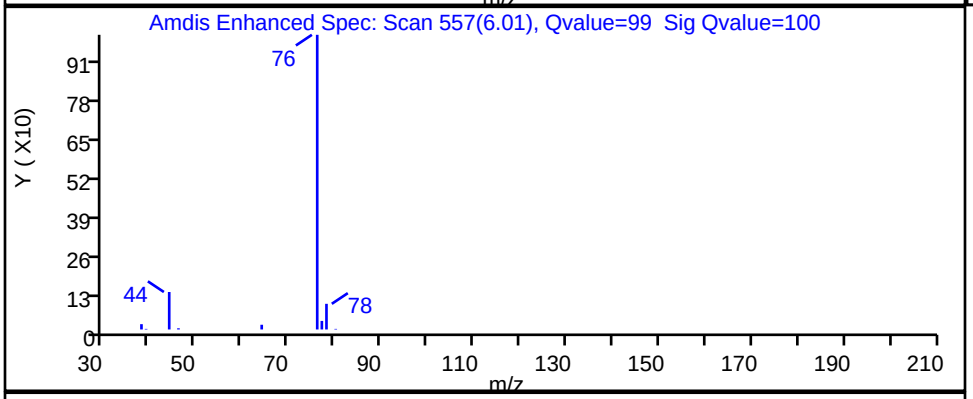
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

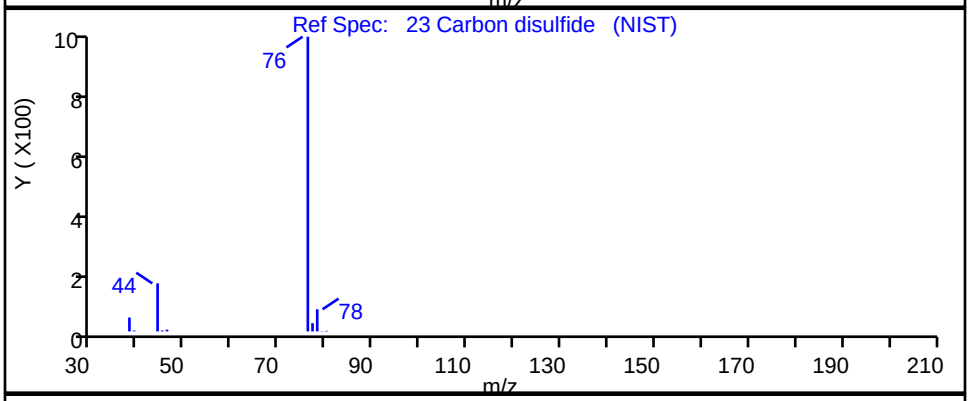
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

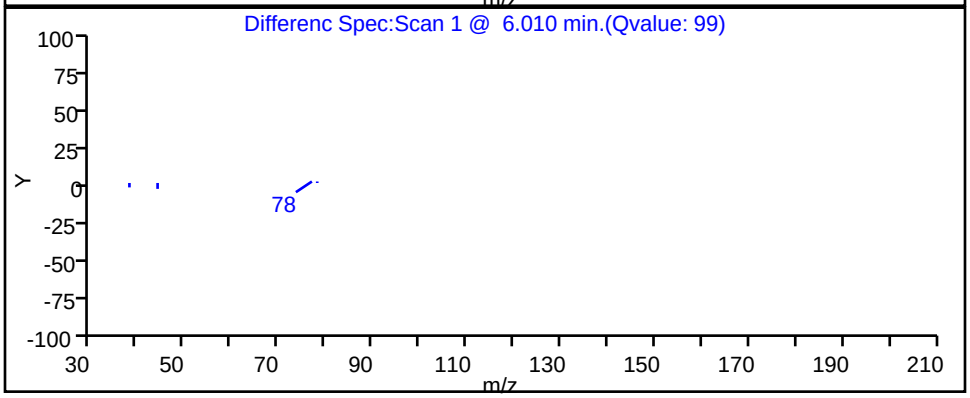
## 23 Carbon disulfide, CAS: 75-15-0



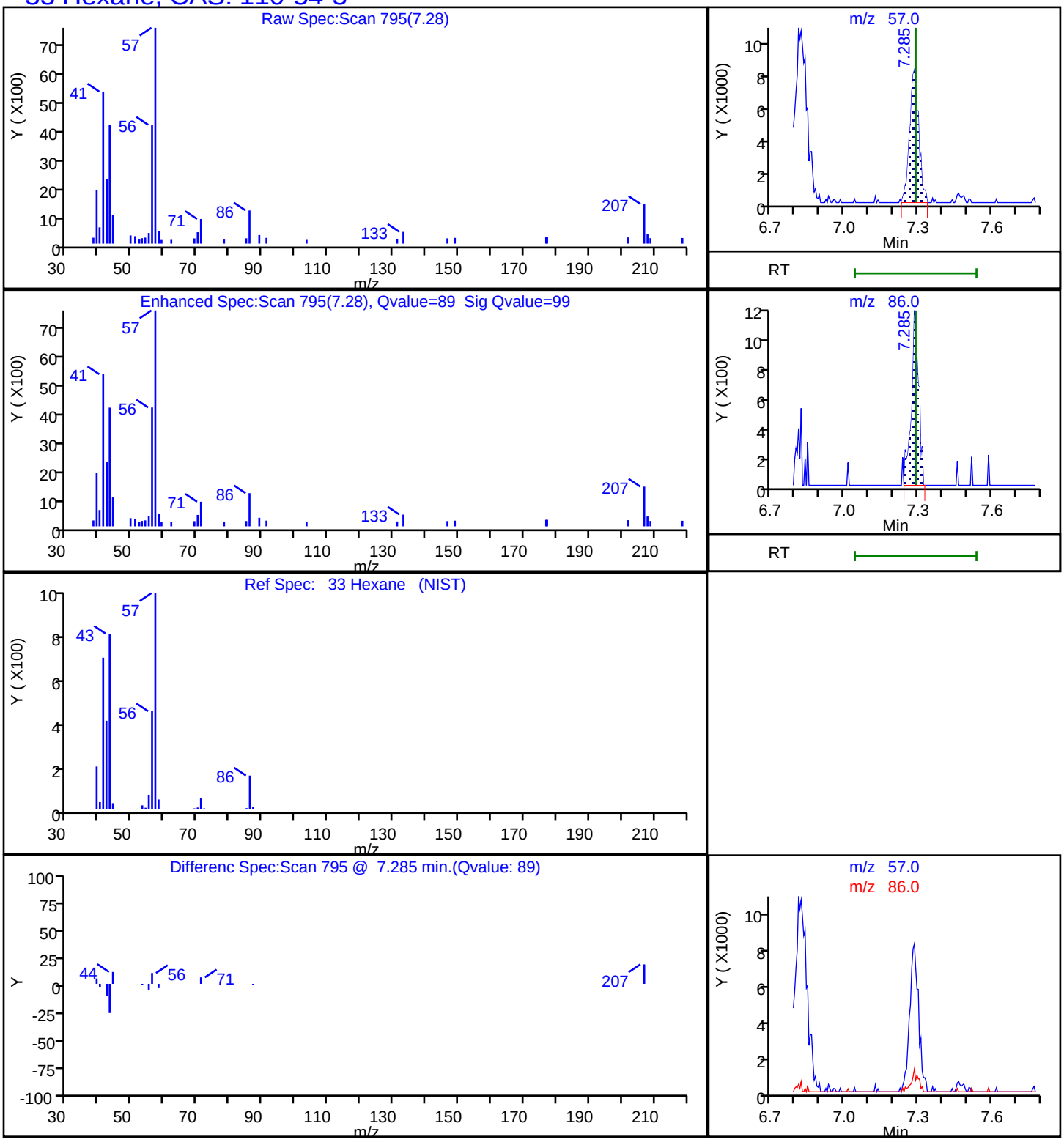
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3



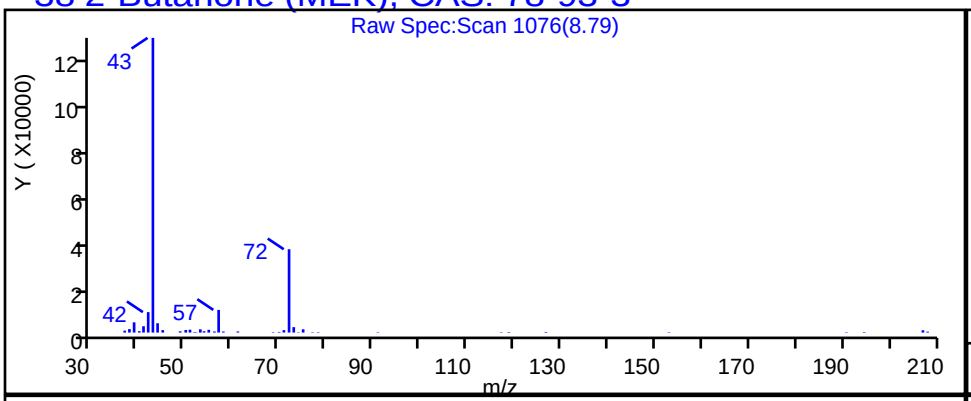
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

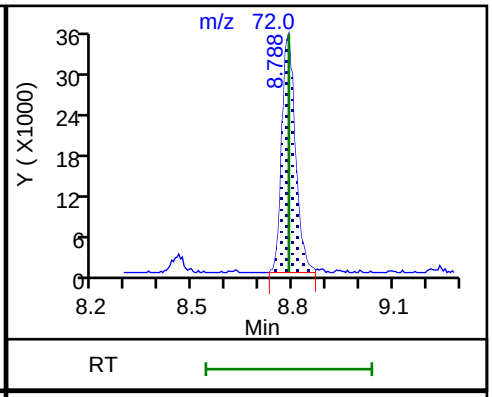
TestAmerica Burlington

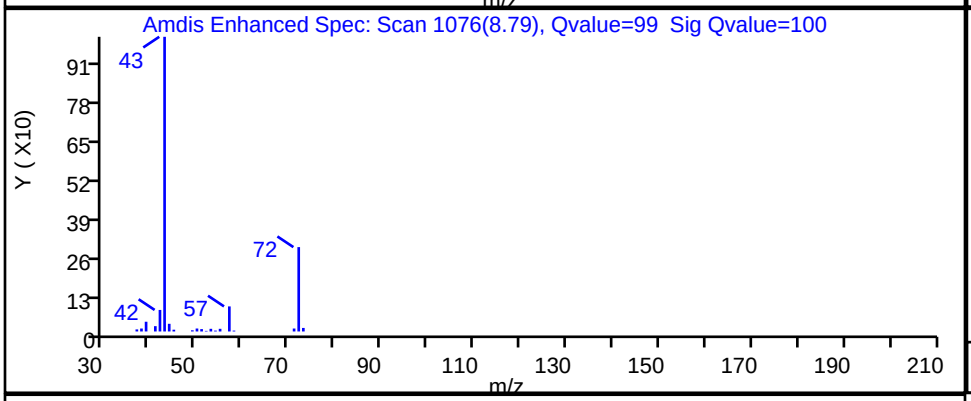
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

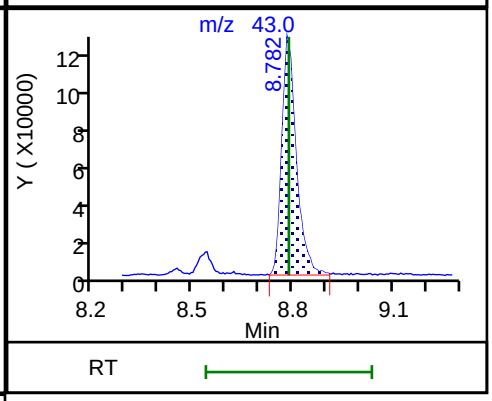
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

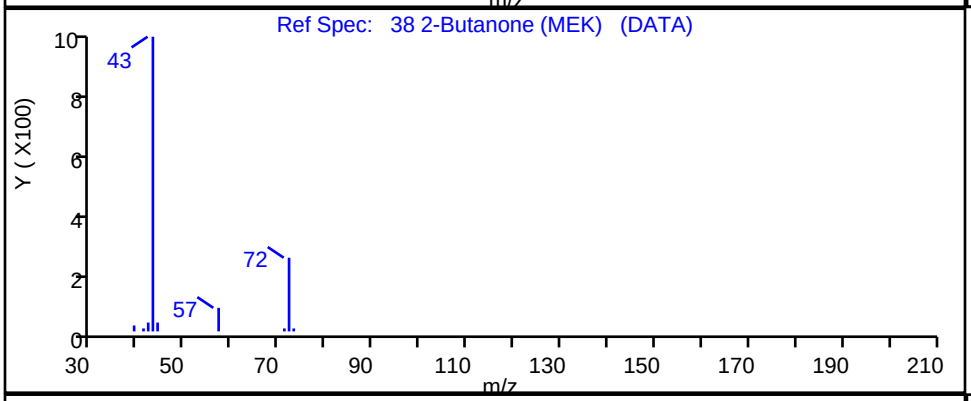
## 38 2-Butanone (MEK), CAS: 78-93-3

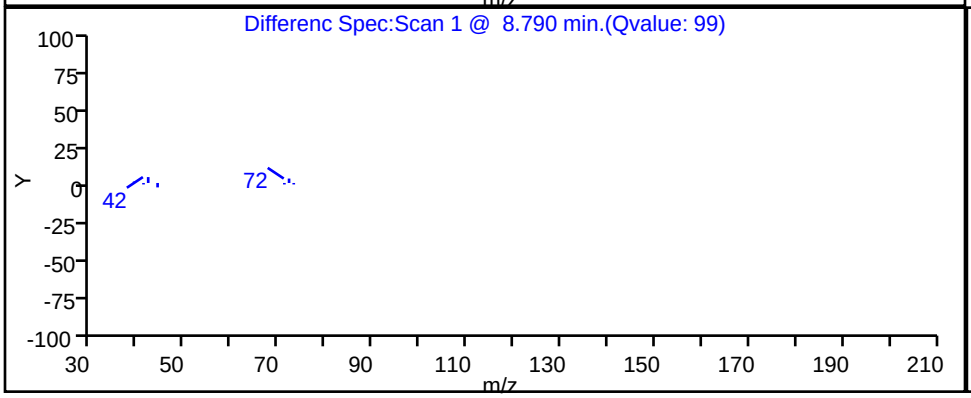


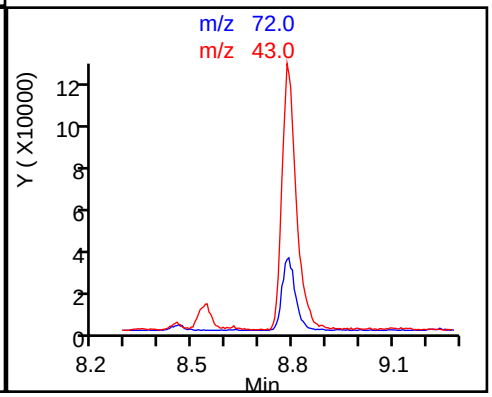



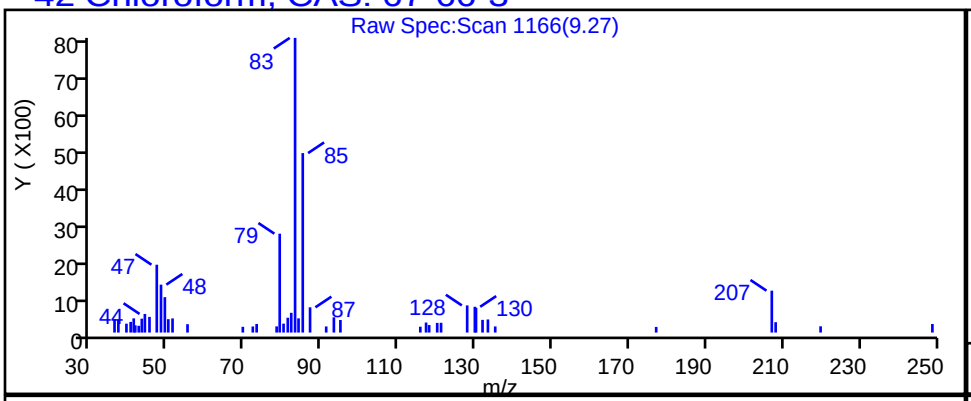
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

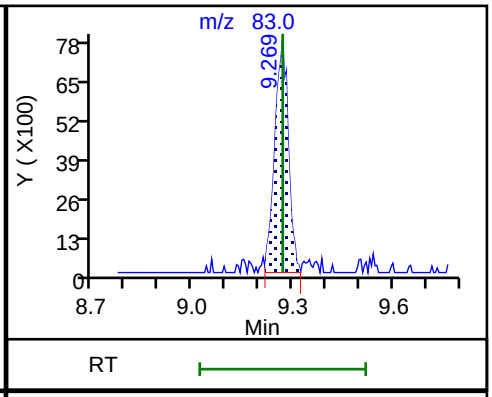
TestAmerica Burlington

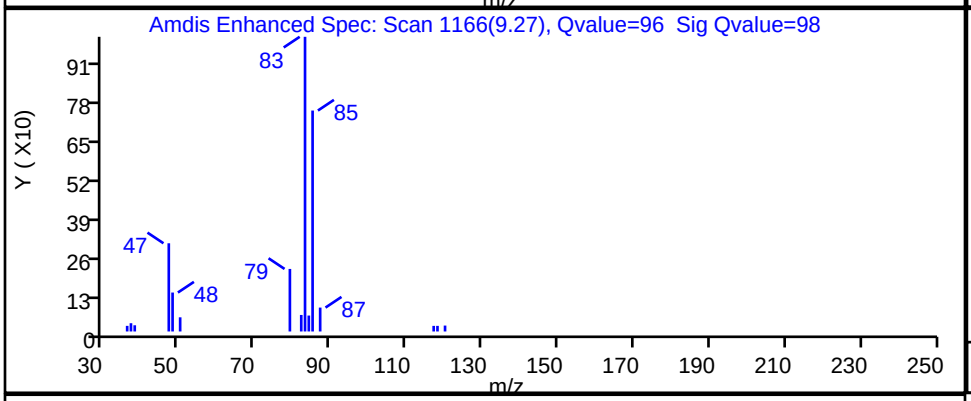
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

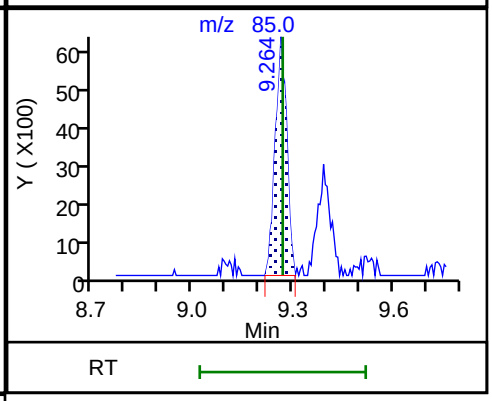
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

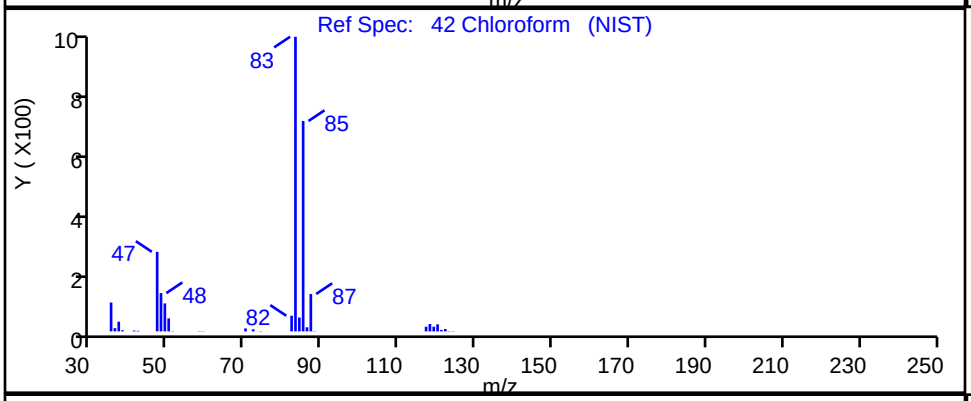
## 42 Chloroform, CAS: 67-66-3

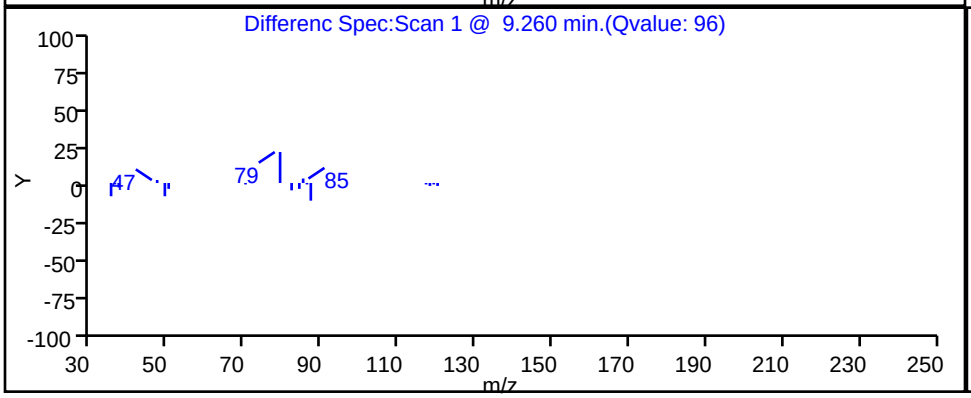


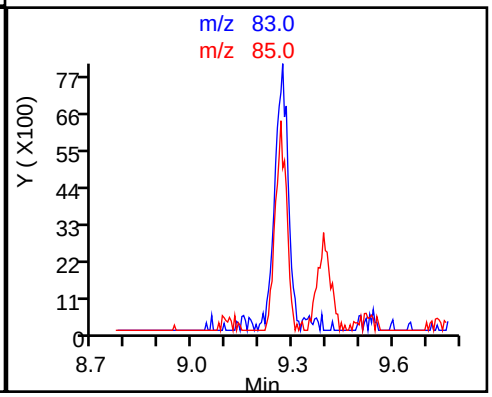



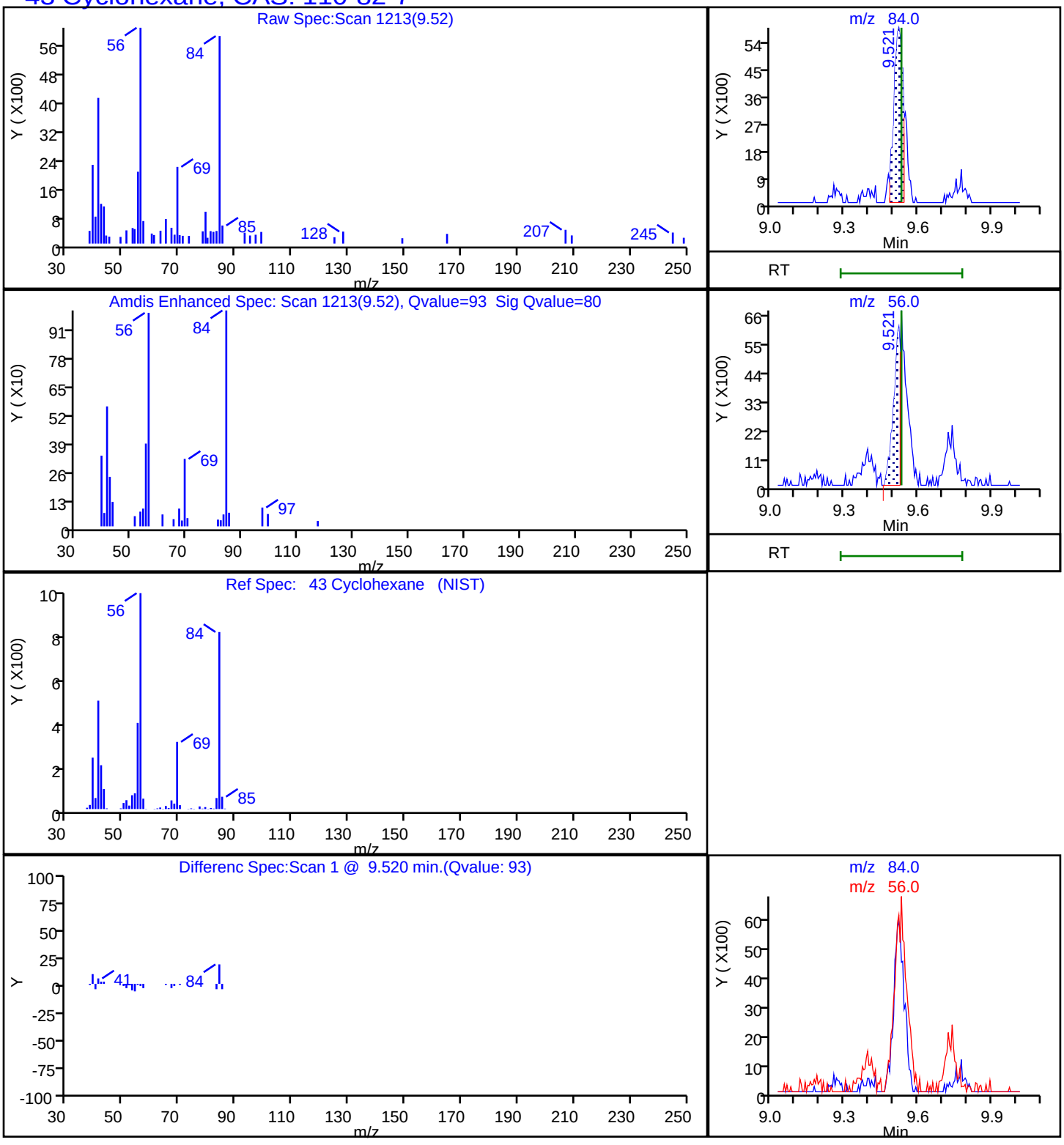
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7



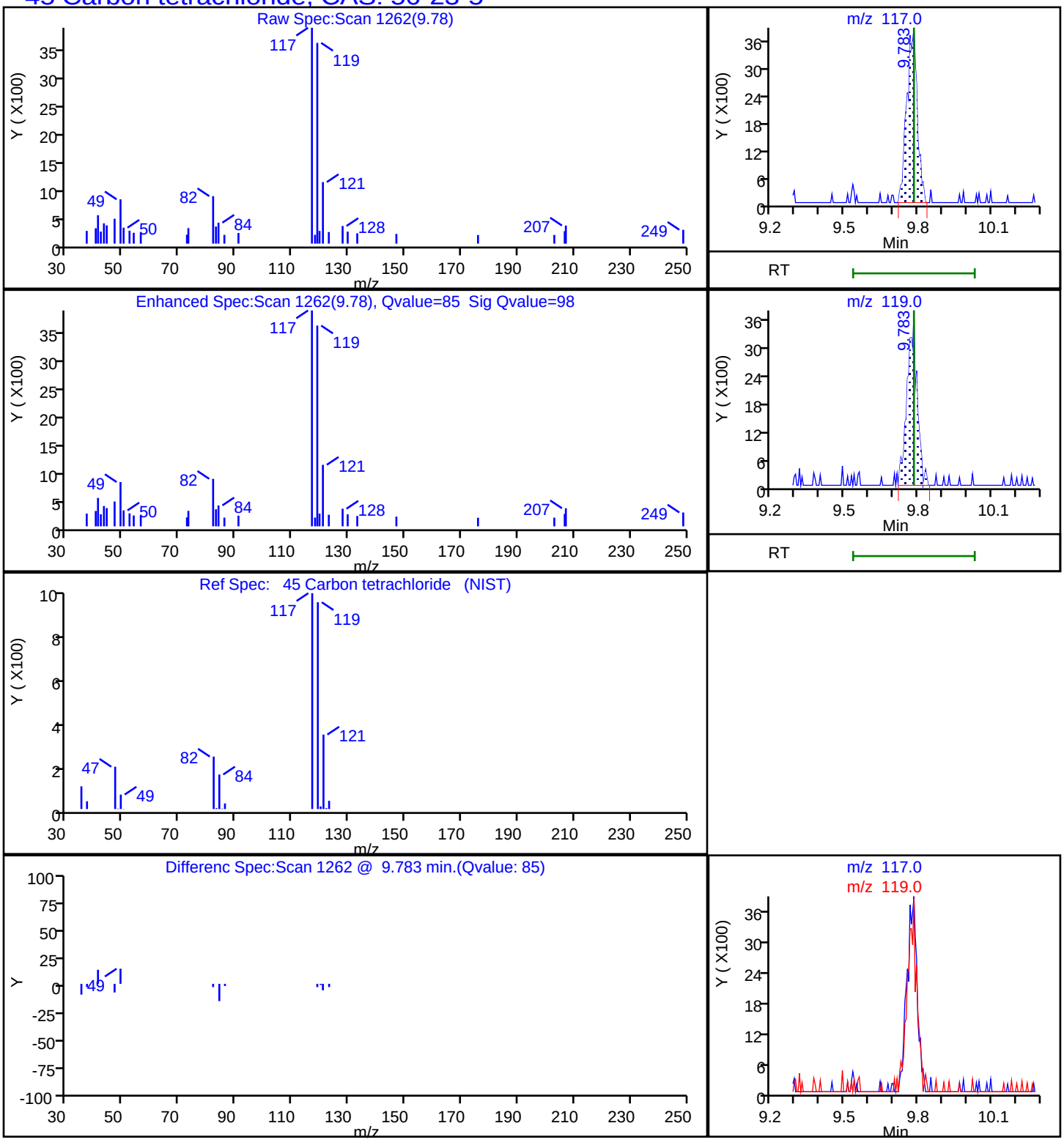
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 45 Carbon tetrachloride, CAS: 56-23-5



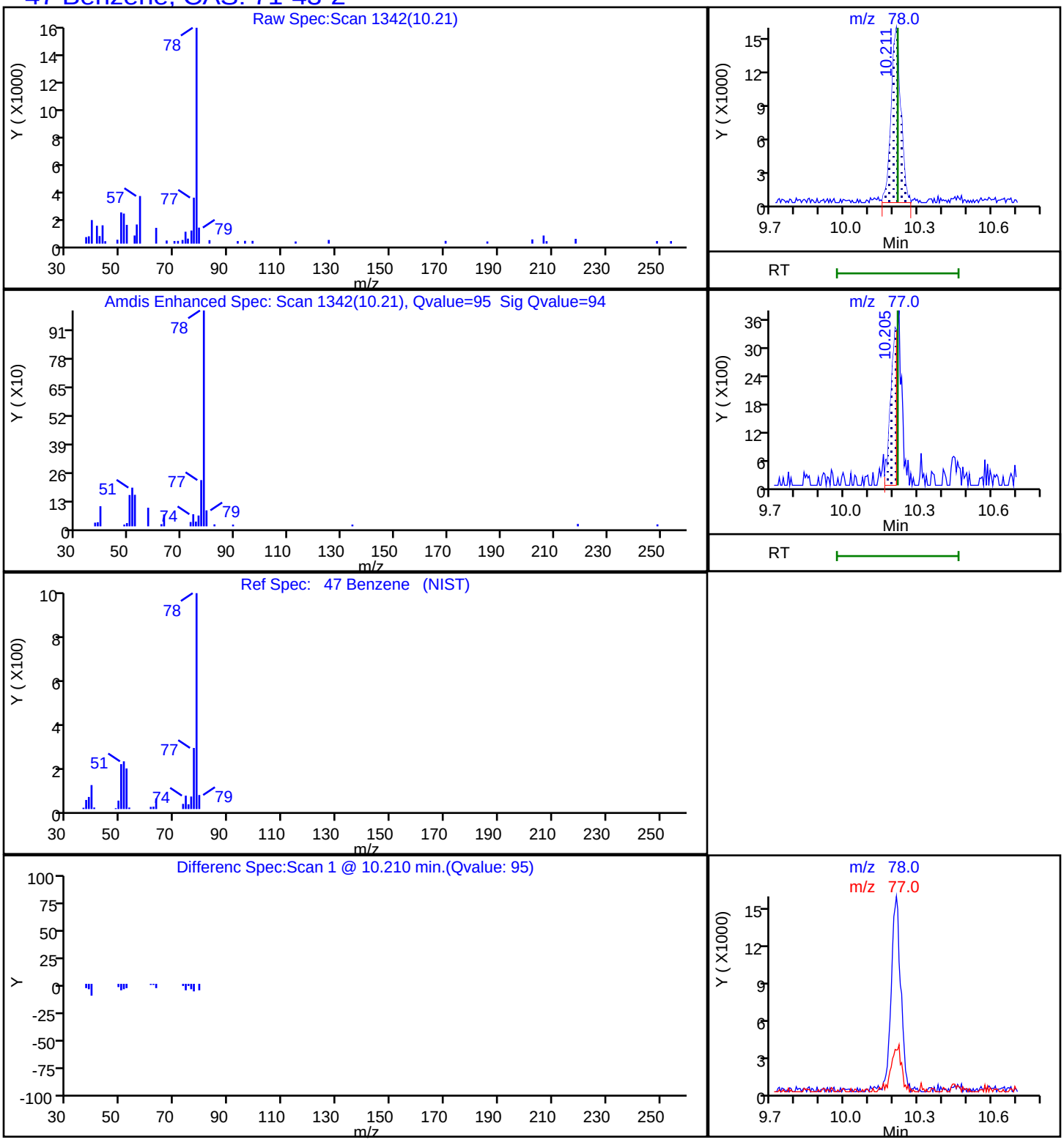
Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2



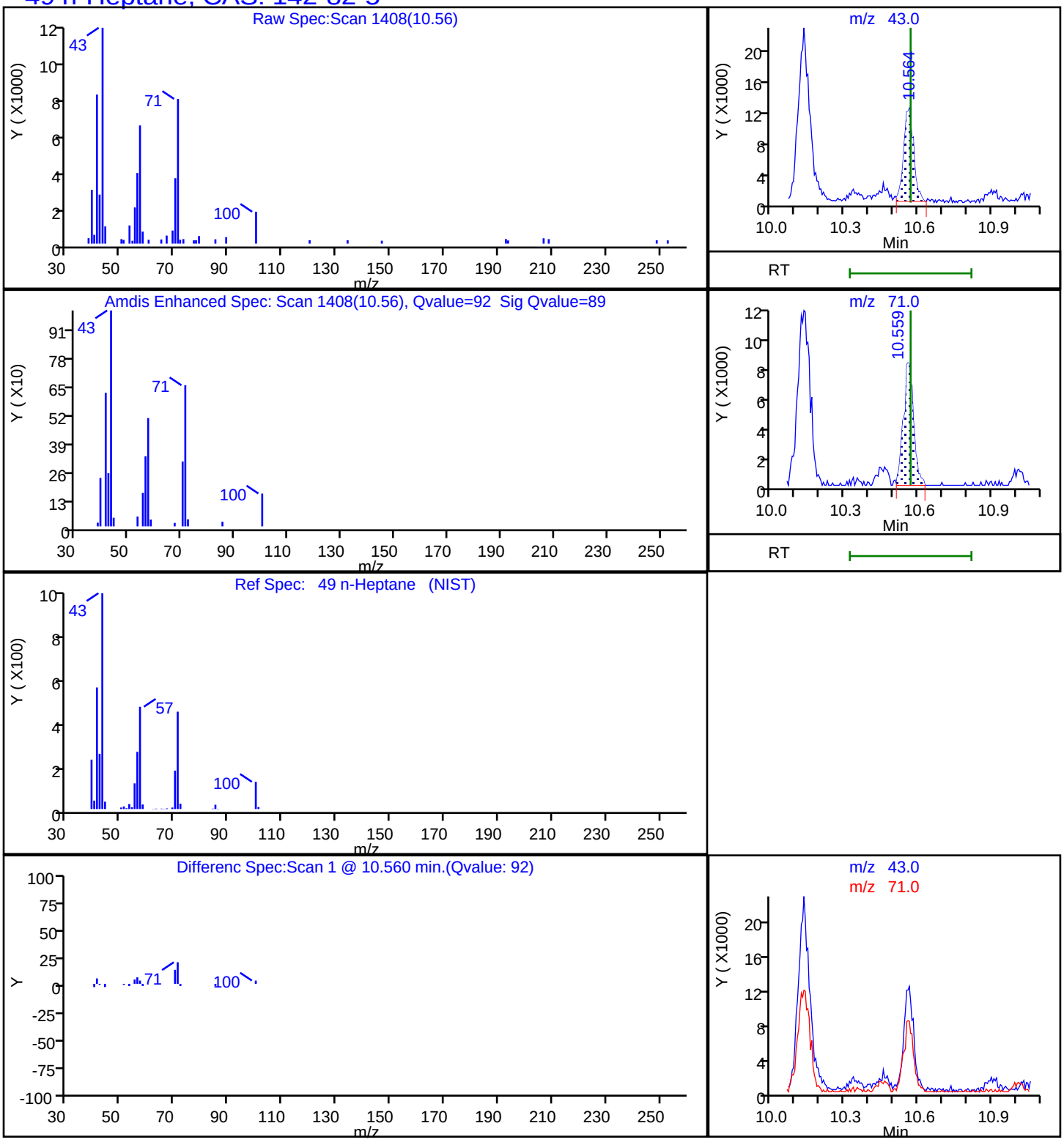
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 49 n-Heptane, CAS: 142-82-5



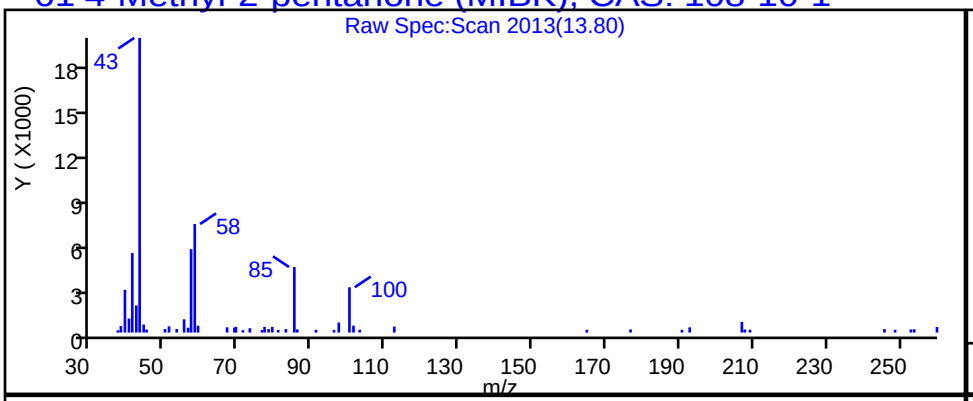
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

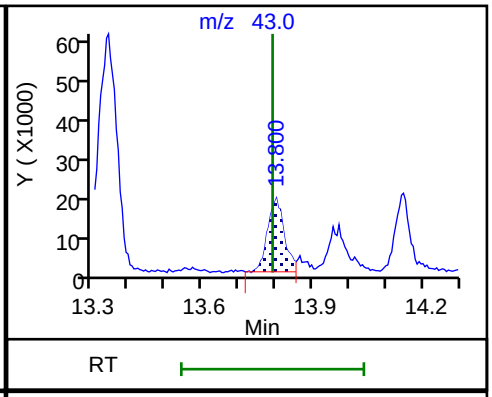
TestAmerica Burlington

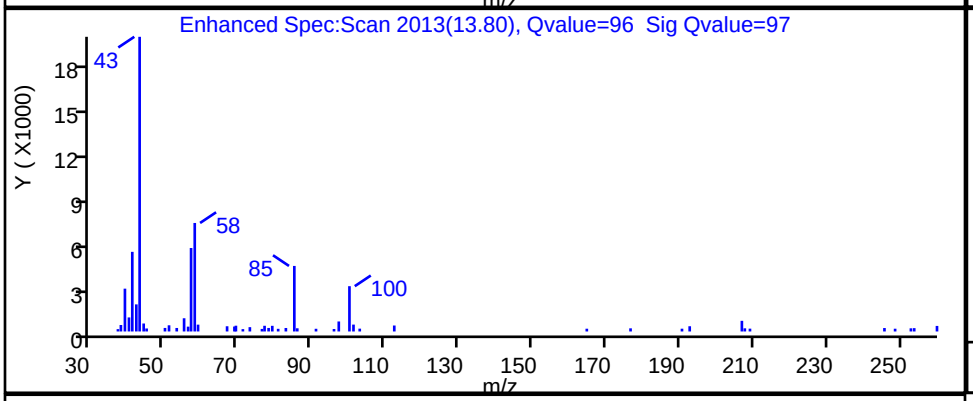
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

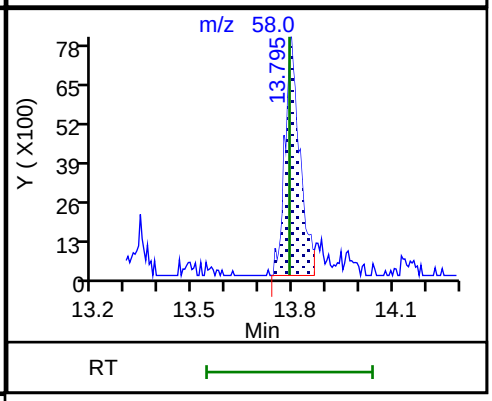
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

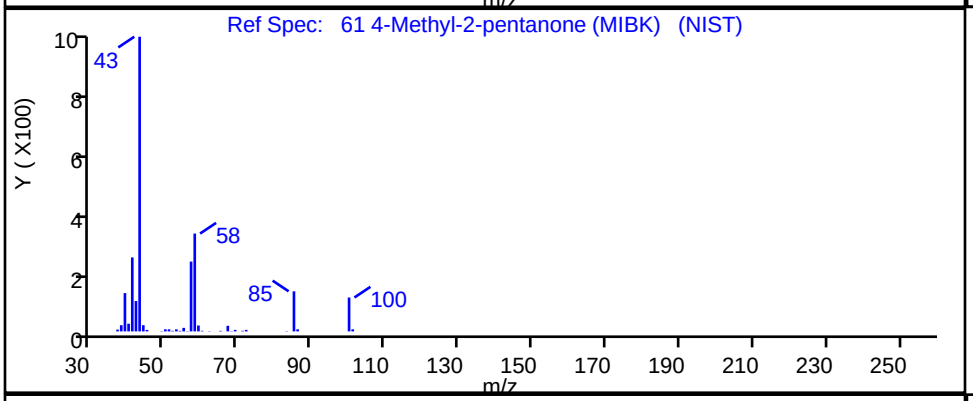
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

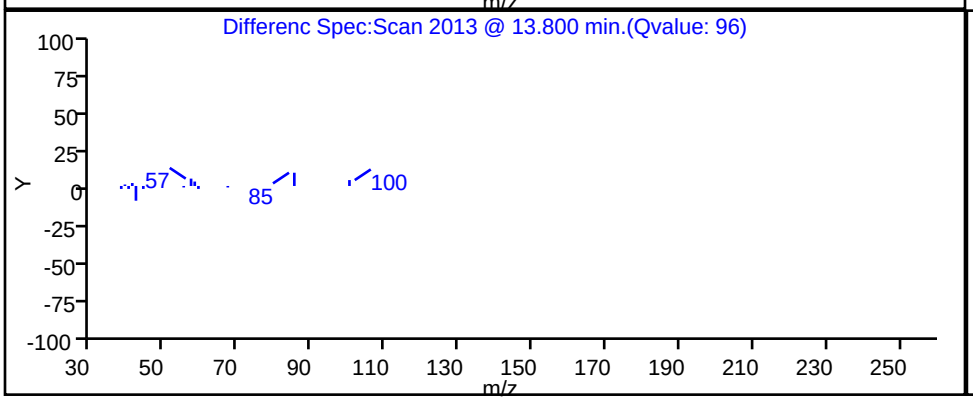


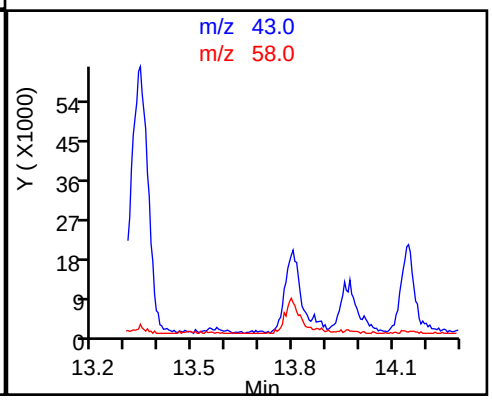



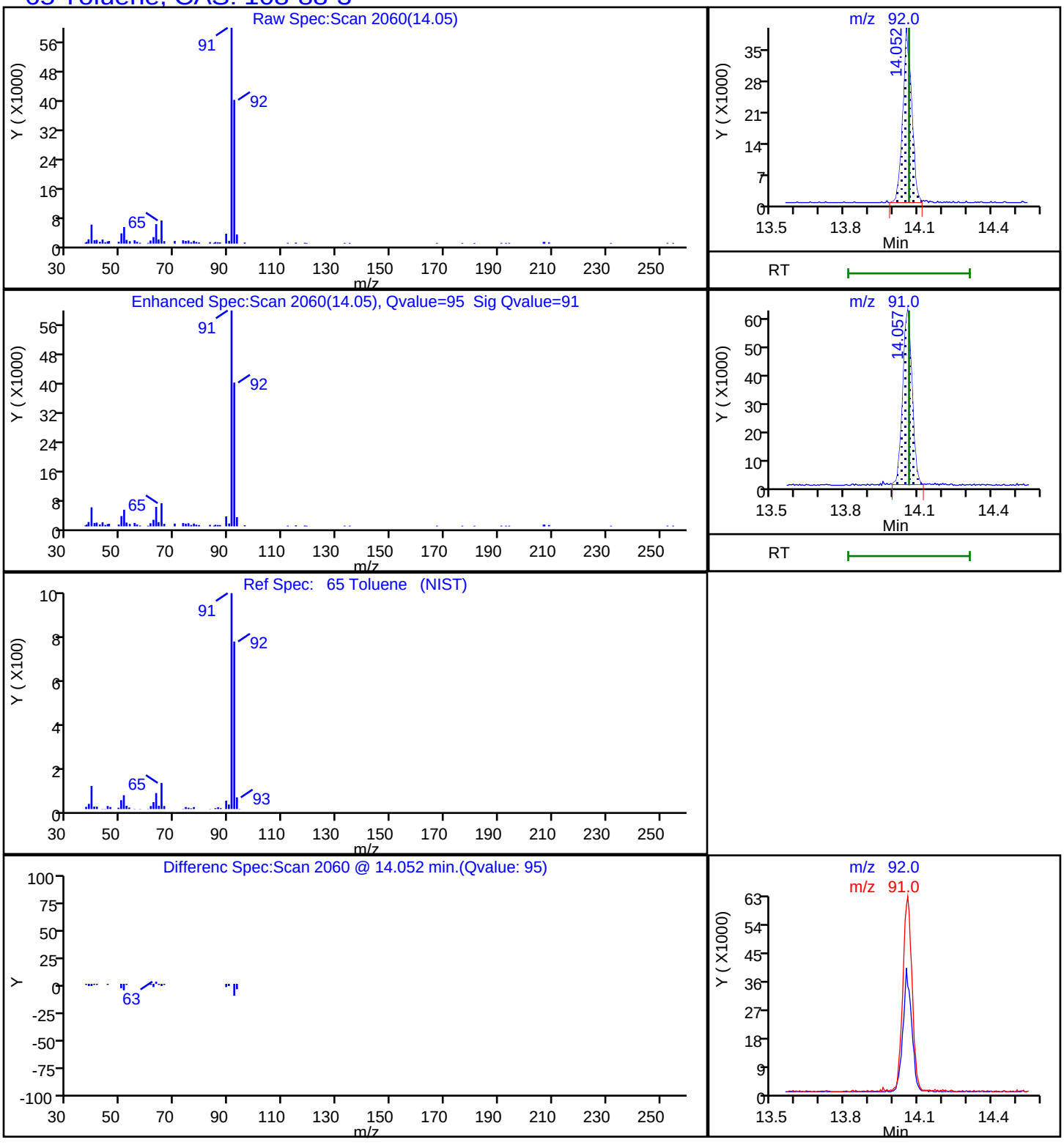
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3



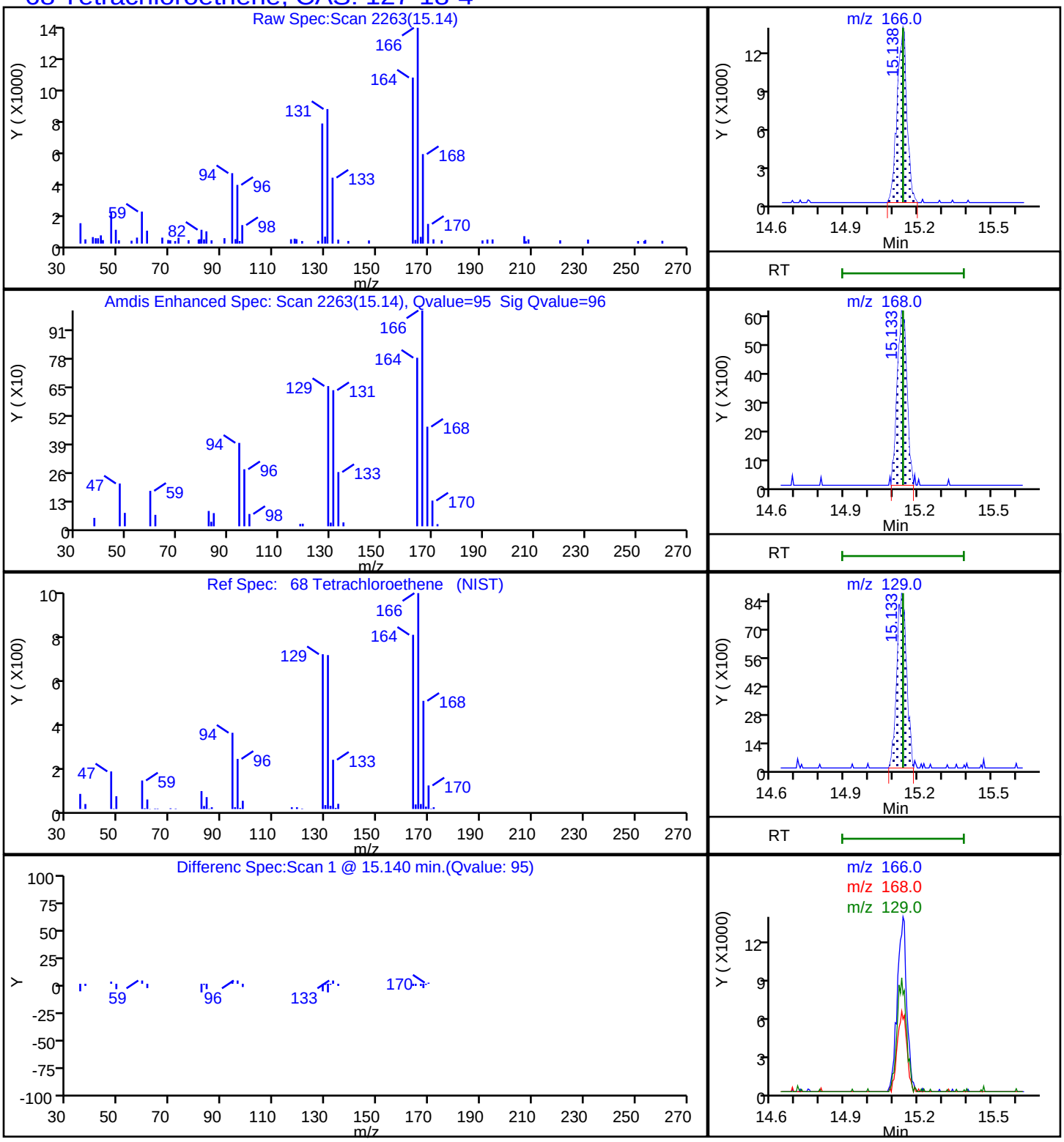
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4



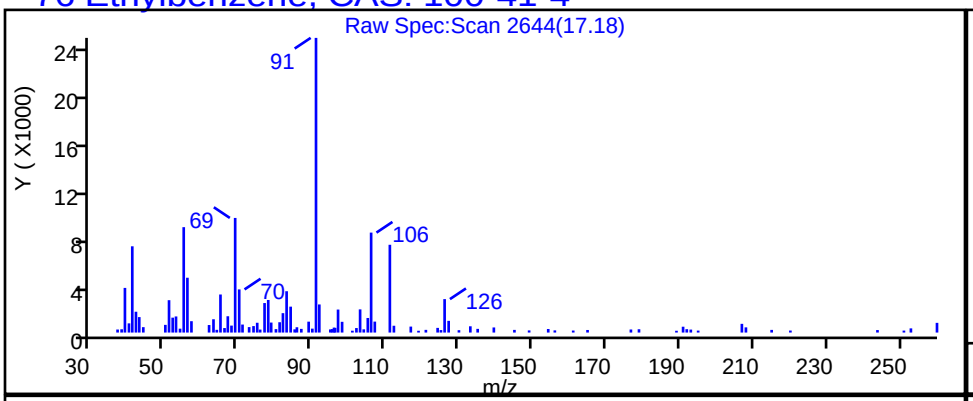
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

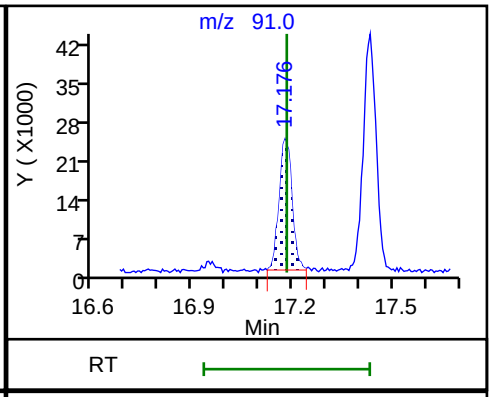
TestAmerica Burlington

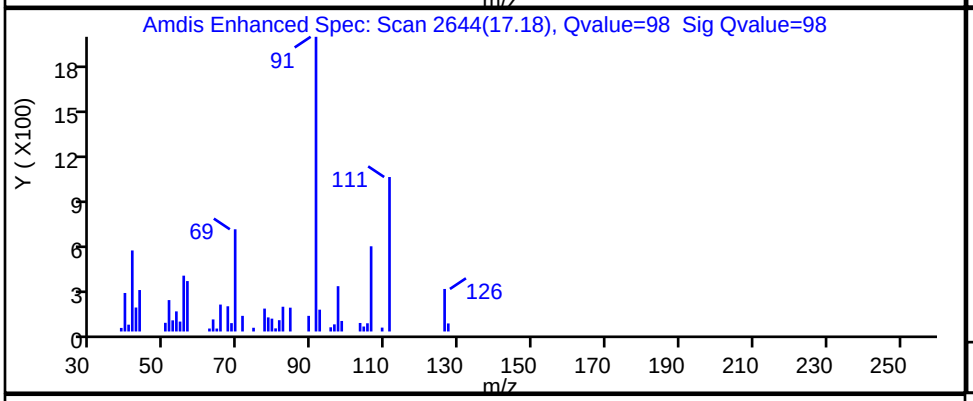
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

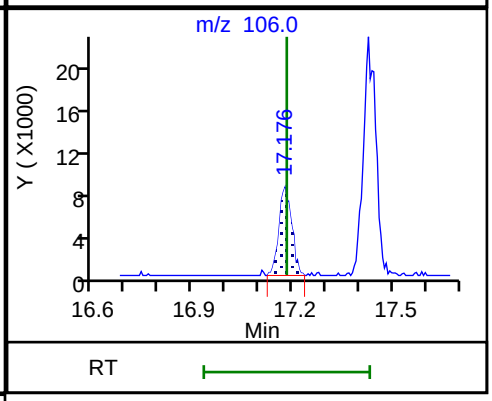
| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

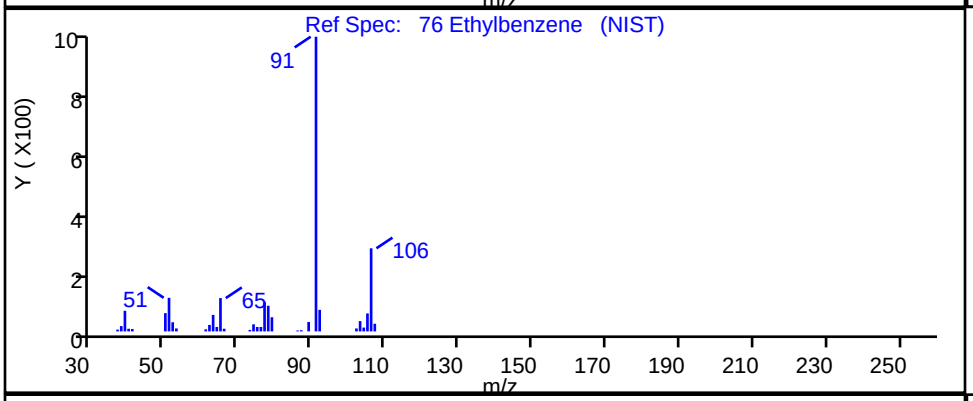
## 76 Ethylbenzene, CAS: 100-41-4

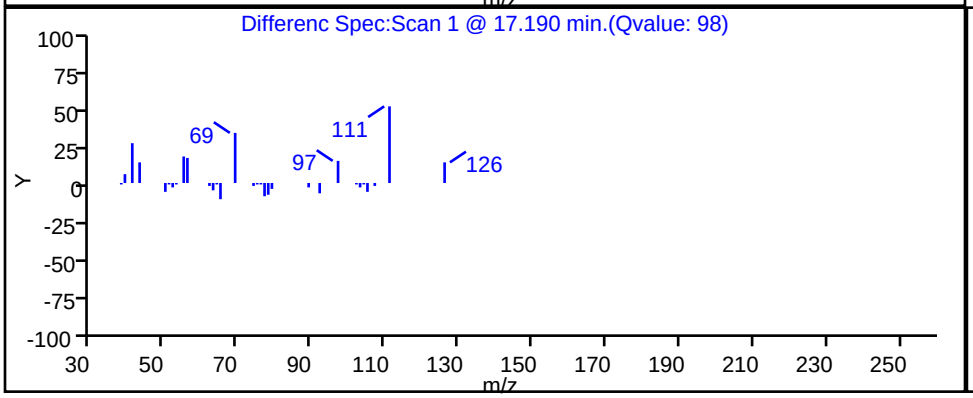


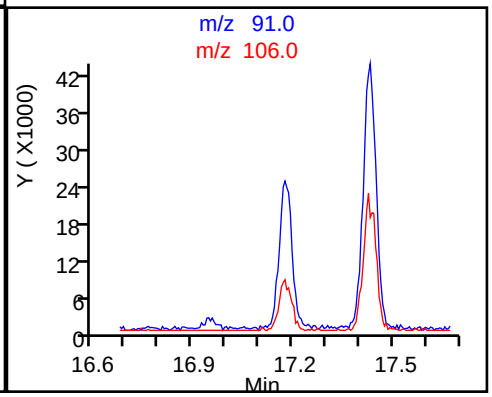



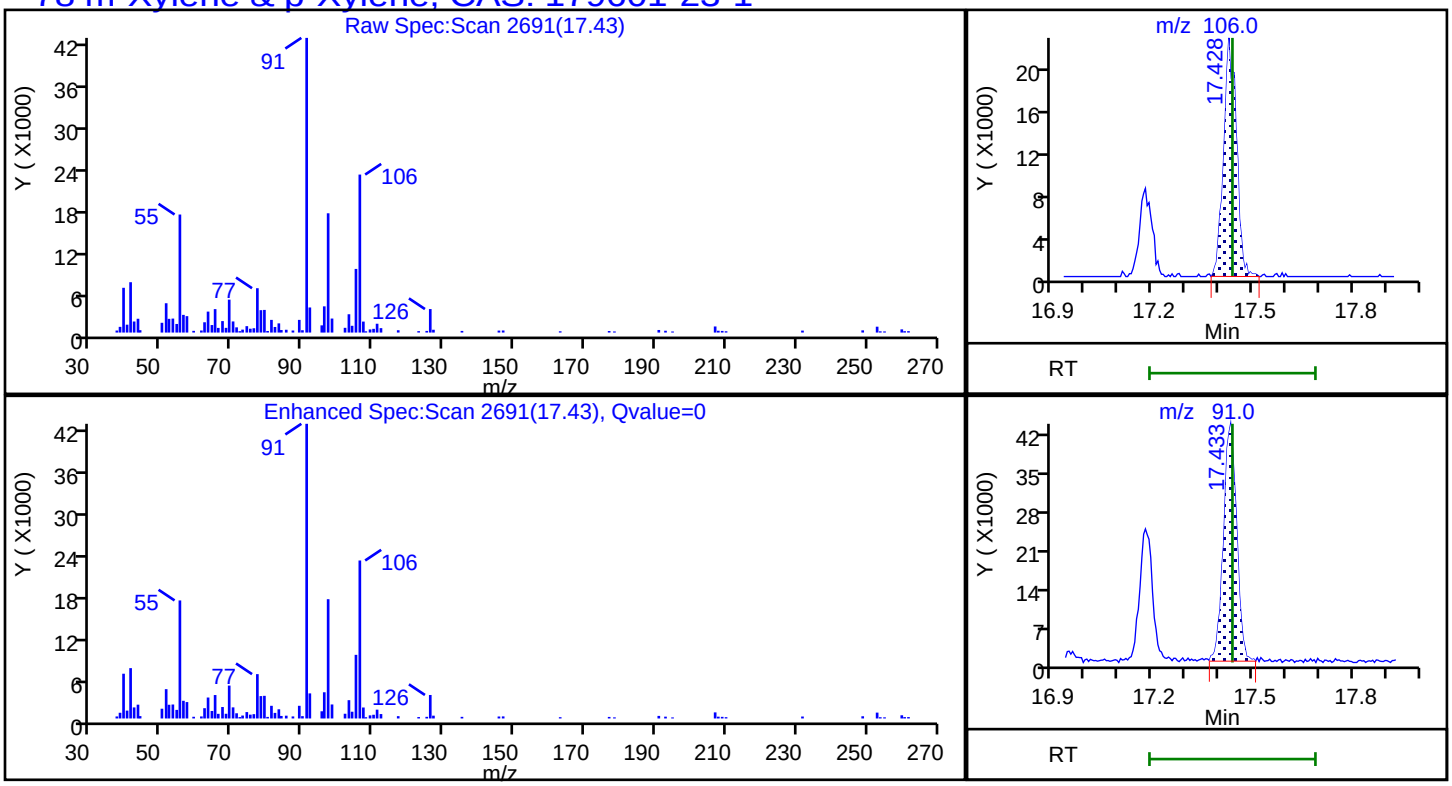
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

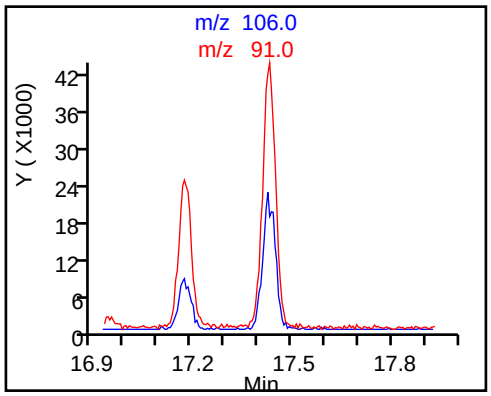
TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1



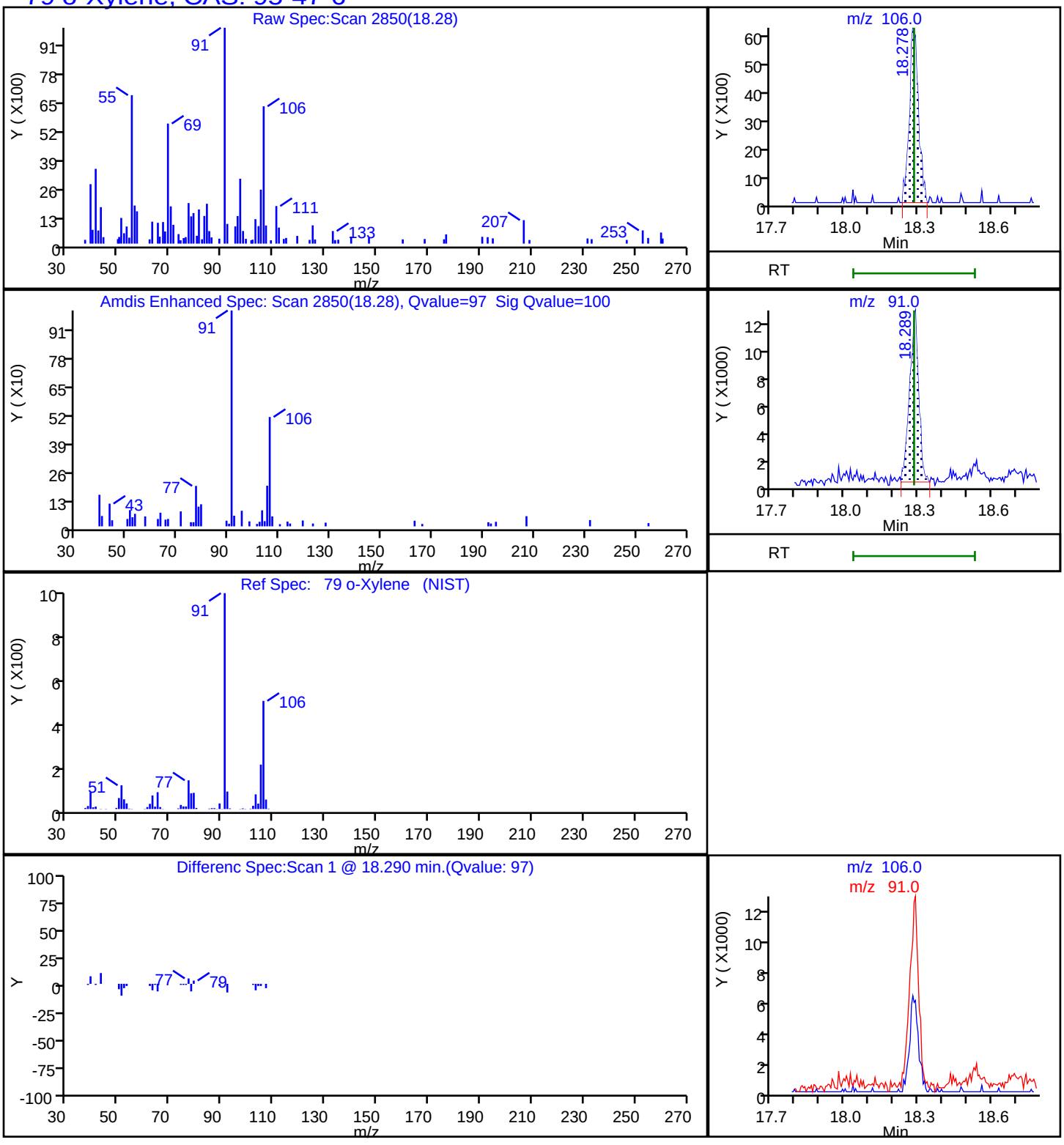
Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6



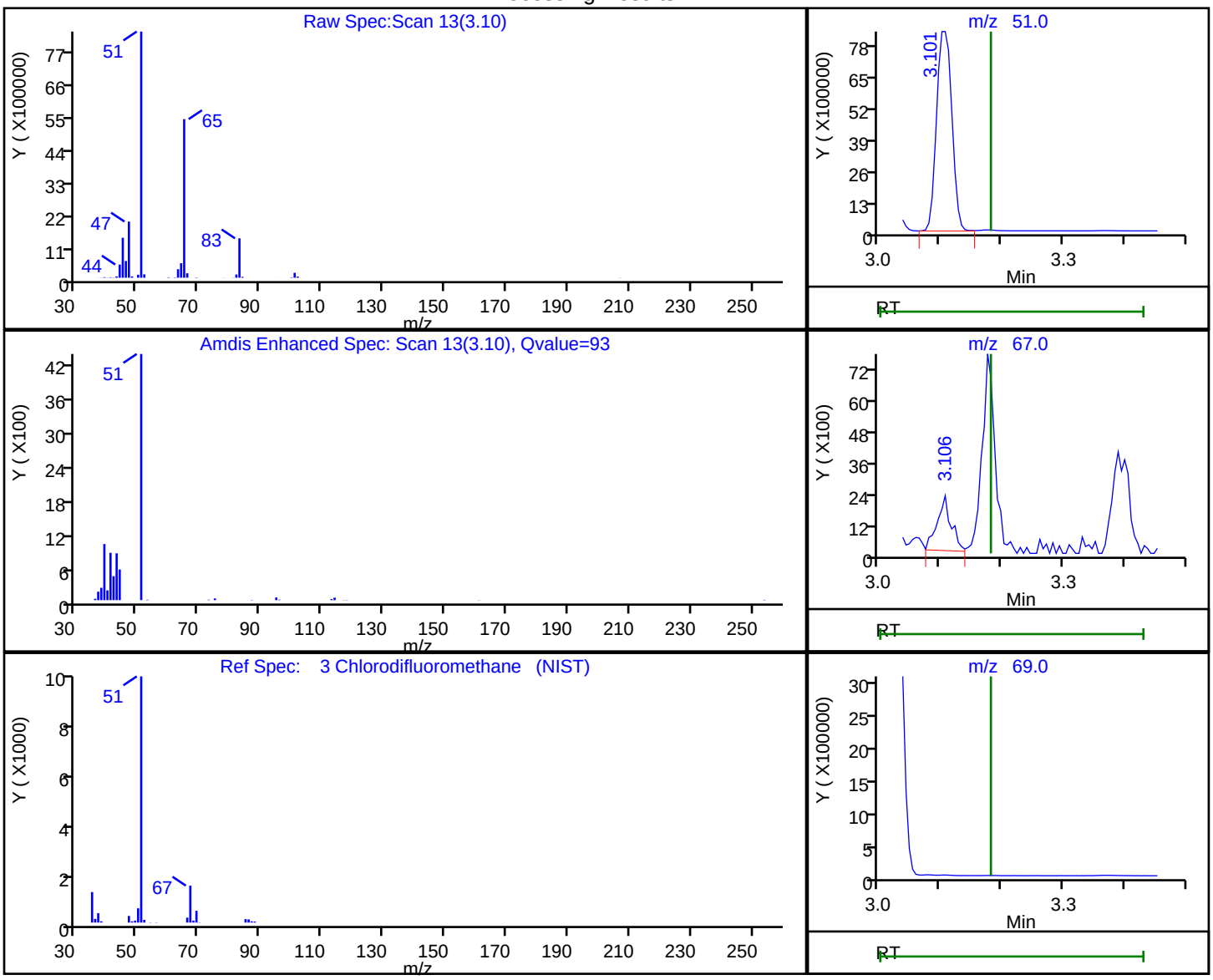
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.10 | 51.00 | 14644774 | 183.5505 |
| 3.11 | 67.00 | 3384 | |
| 3.18 | 69.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:06:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

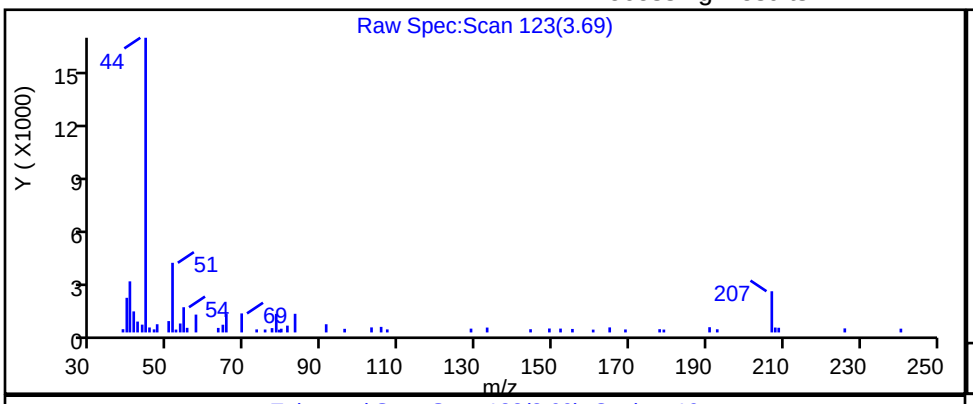
User Disabled Compound Report

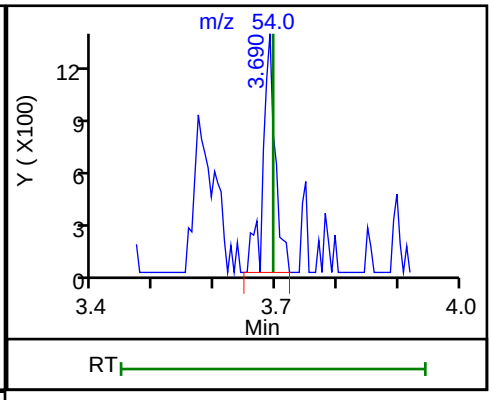
TestAmerica Burlington

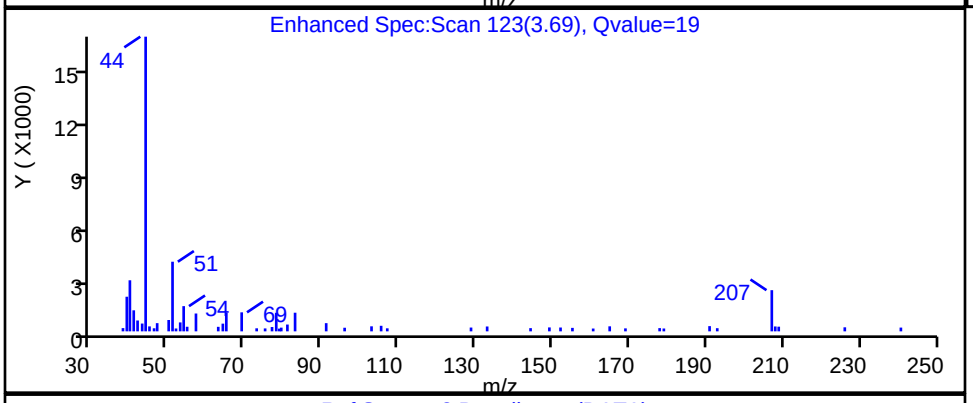
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

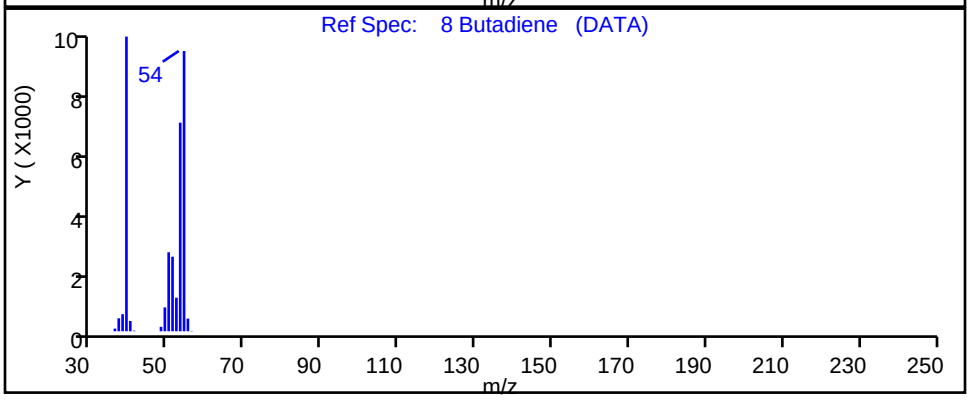
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.69 | 54.00 | 1936 | 0.070884 |

Reviewer: puangmaleek, 07-Dec-2018 17:06:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 17:08:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

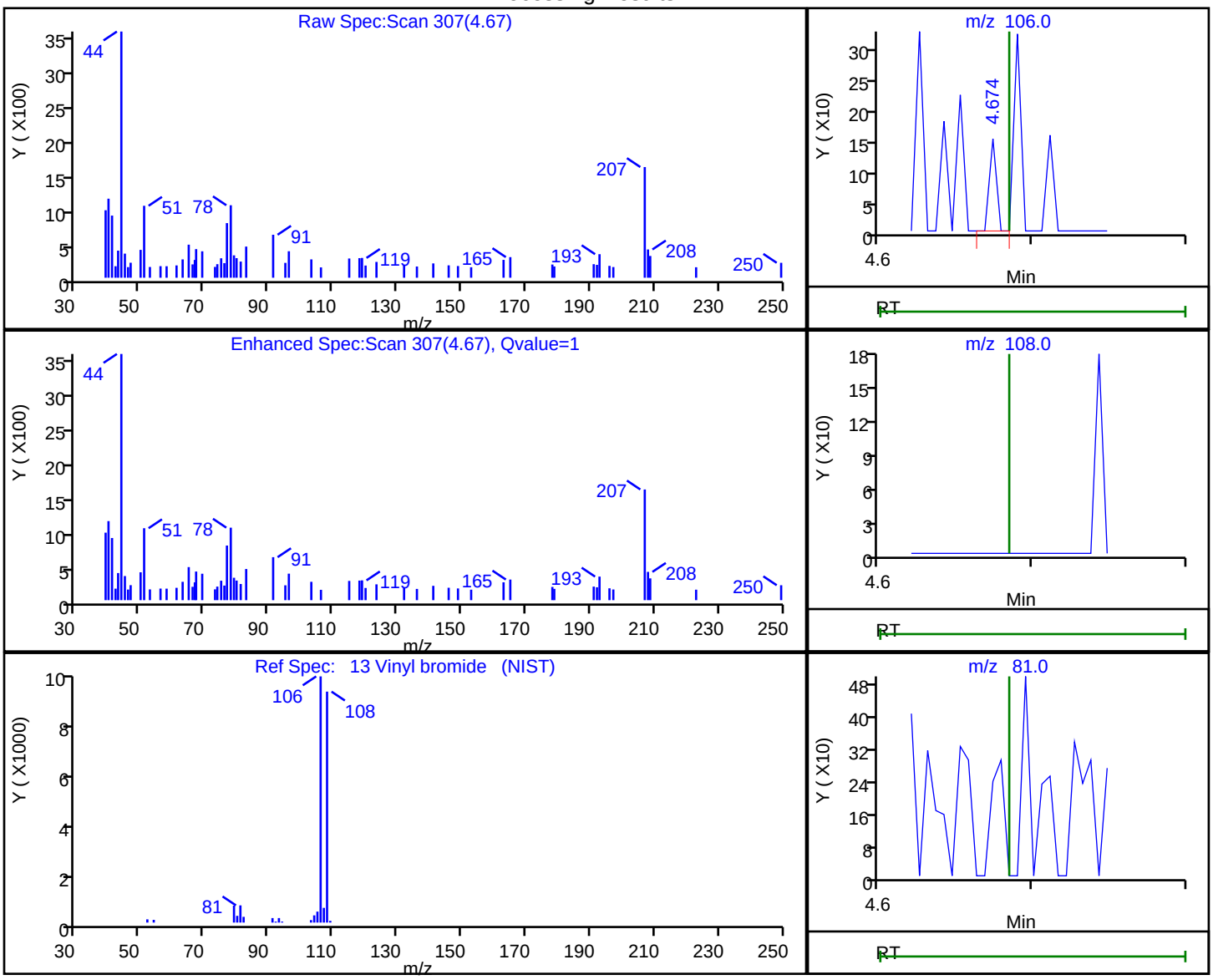
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.67 | 106.00 | 48 | 0.000958 |
| 4.68 | 108.00 | 0 | |
| 4.68 | 81.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:06:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

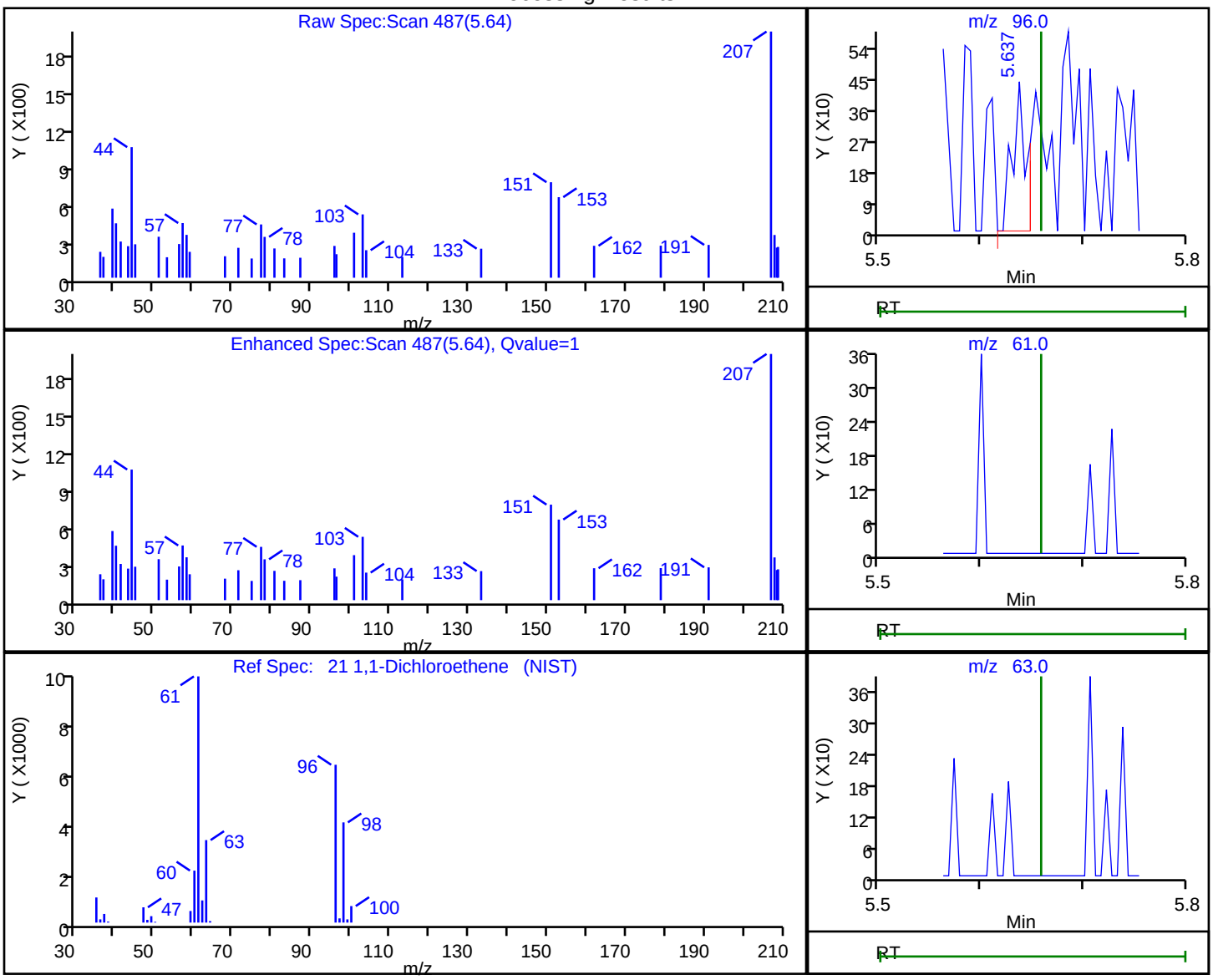
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.64 | 96.00 | 411 | 0.008949 |
| 5.66 | 61.00 | 0 | |
| 5.66 | 63.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:06:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

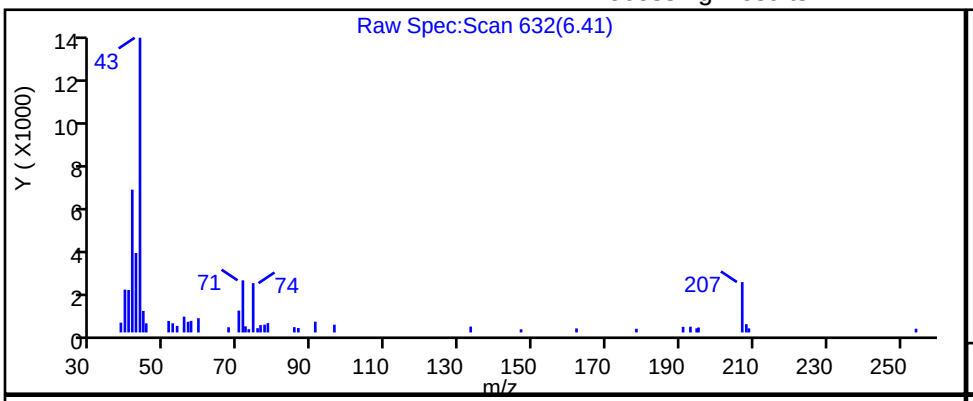
User Disabled Compound Report

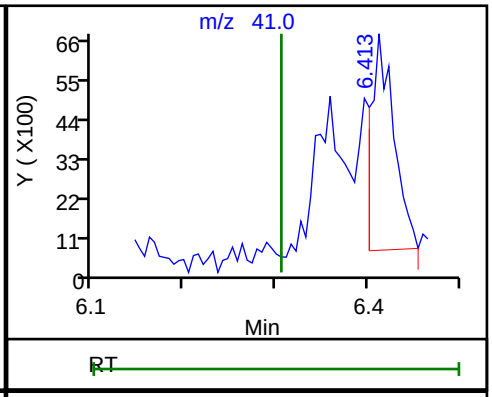
TestAmerica Burlington

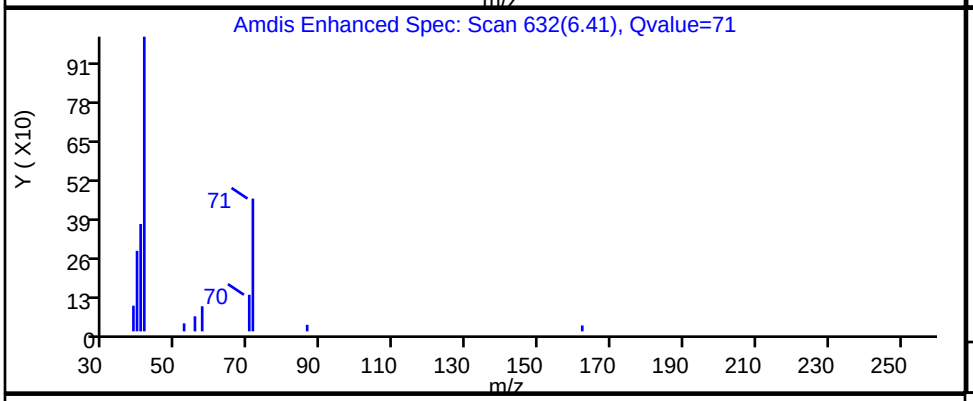
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

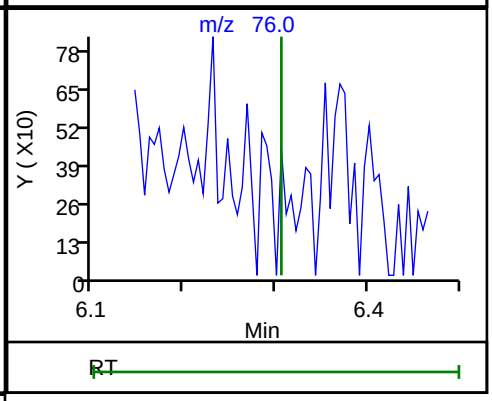
## 25 3-Chloro-1-propene, CAS: 107-05-1

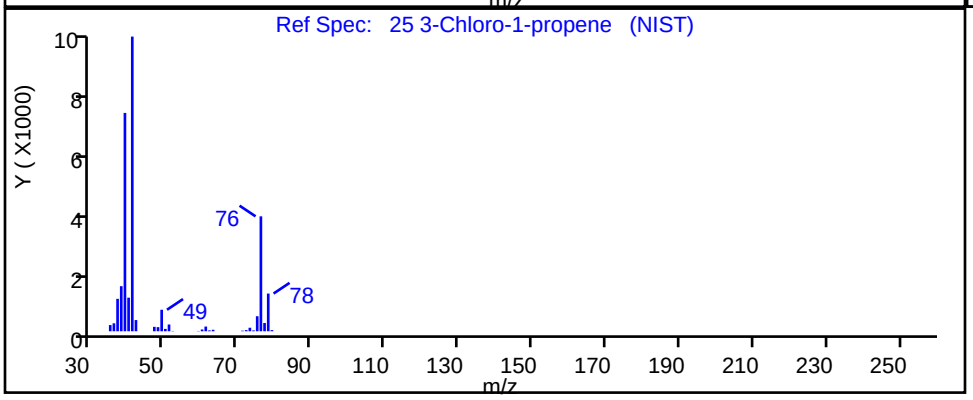
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.41 | 41.00 | 10510 | 0.307605 |
| 6.30 | 76.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:06:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

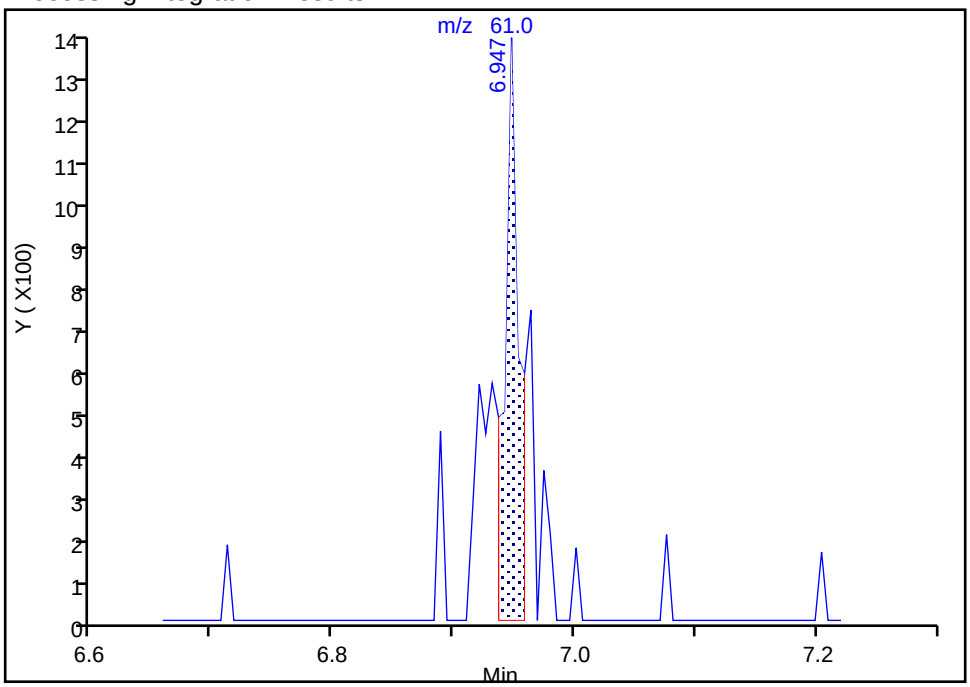
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

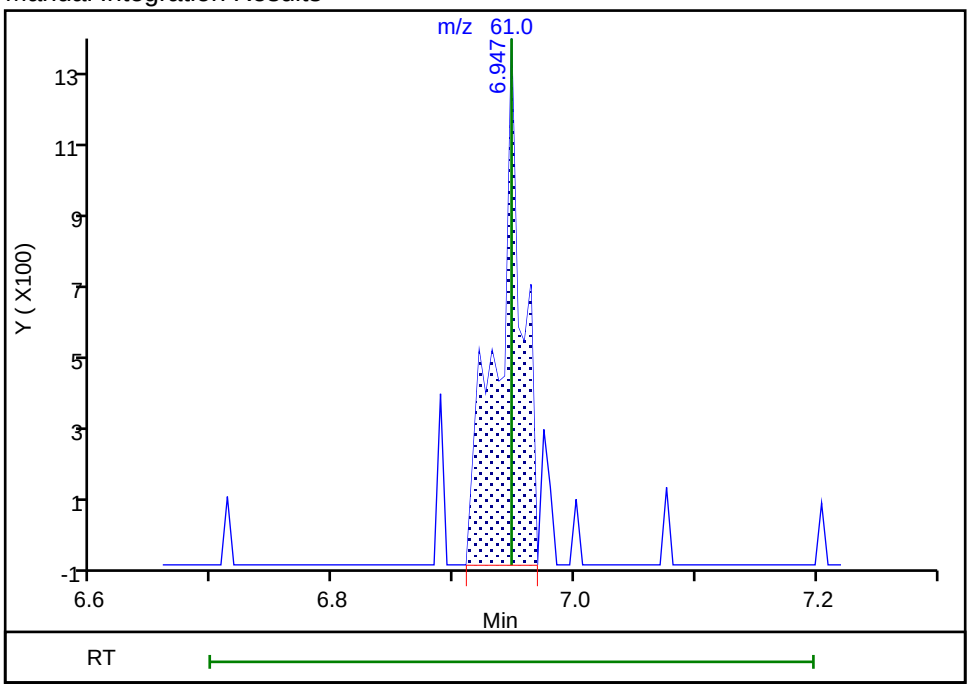
Processing Integration Results

RT: 6.95
Area: 1137
Amount: 0.020434
Amount Units: ppb v/v




Manual Integration Results

RT: 6.95
Area: 1961
Amount: 0.035242
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:06:59

Audit Action: Manually Integrated Audit Reason: Assign Peak

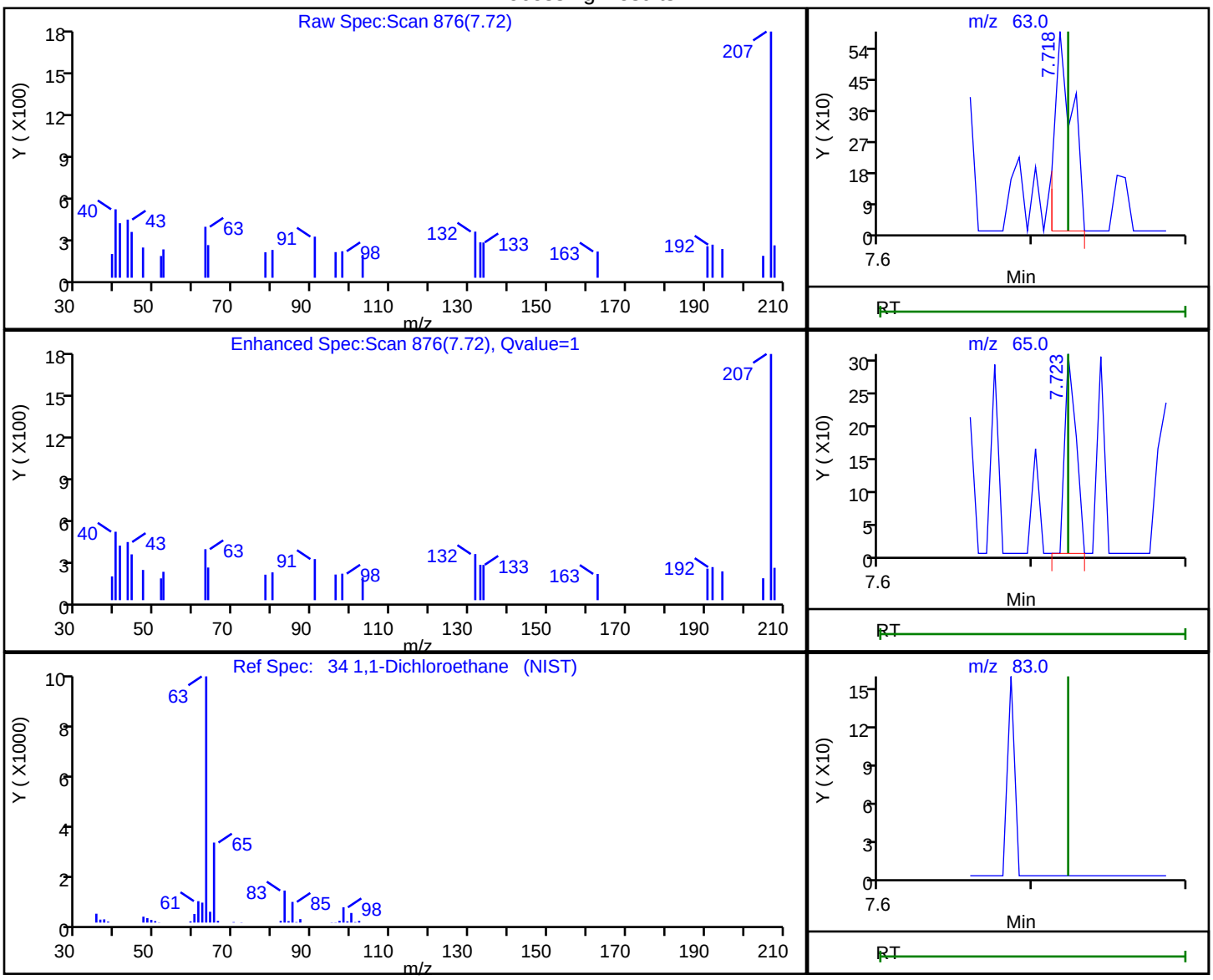
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.72 | 63.00 | 470 | 0.006545 |
| 7.72 | 65.00 | 154 | |
| 7.72 | 83.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

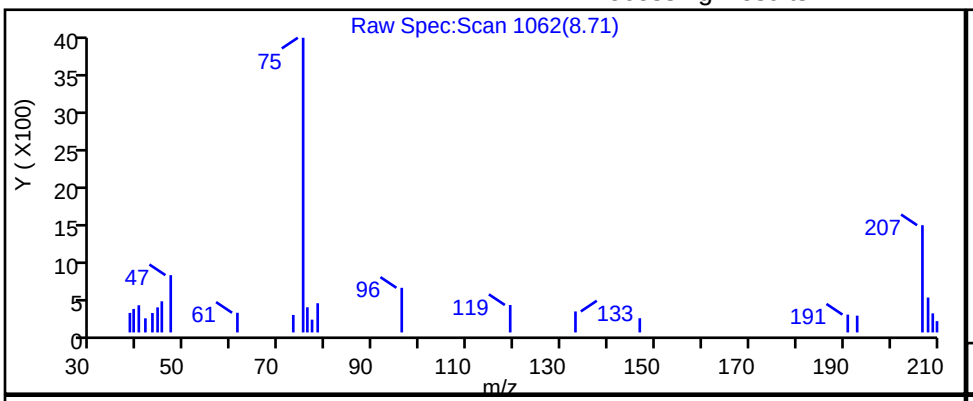
User Disabled Compound Report

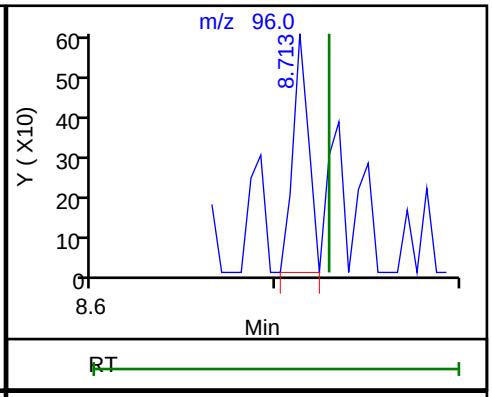
TestAmerica Burlington

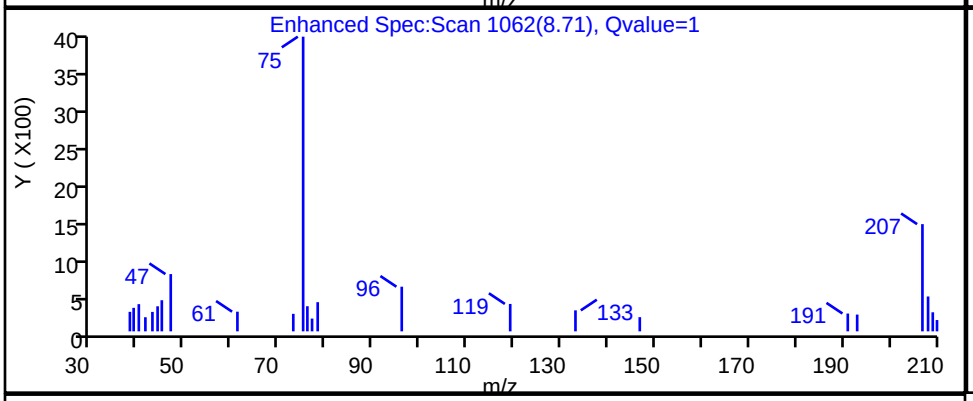
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

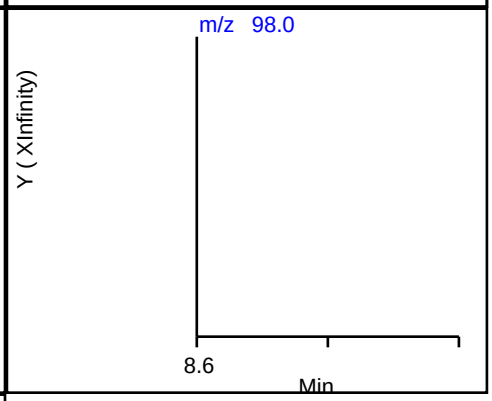
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

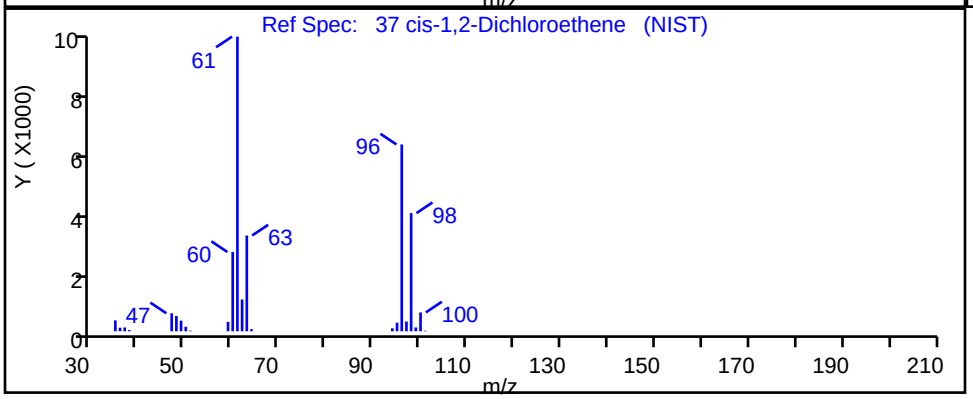
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.71 | 96.00 | 357 | 0.008206 |
| 8.72 | 98.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

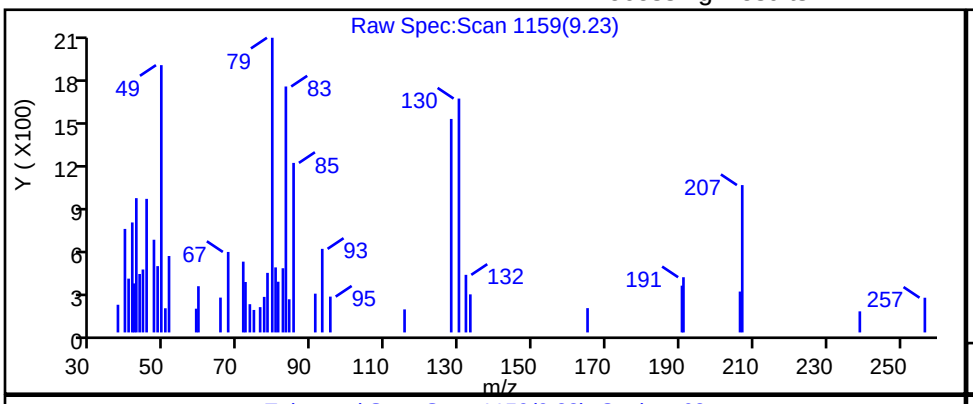
User Disabled Compound Report

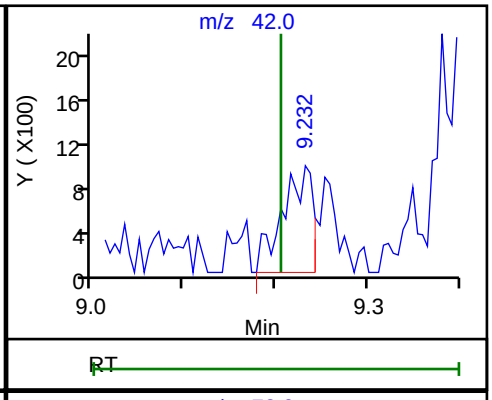
TestAmerica Burlington

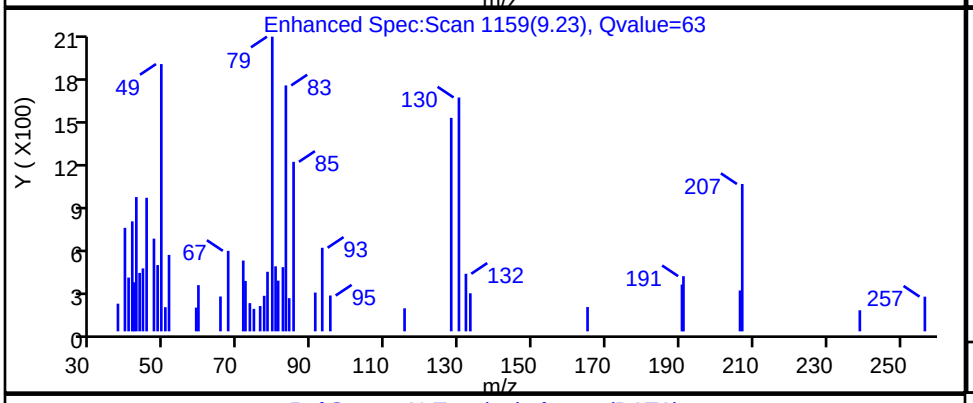
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

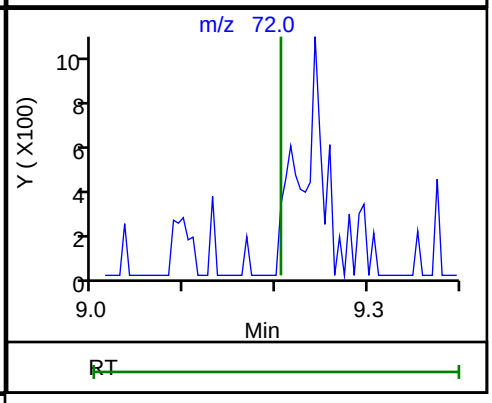
## 41 Tetrahydrofuran, CAS: 109-99-9

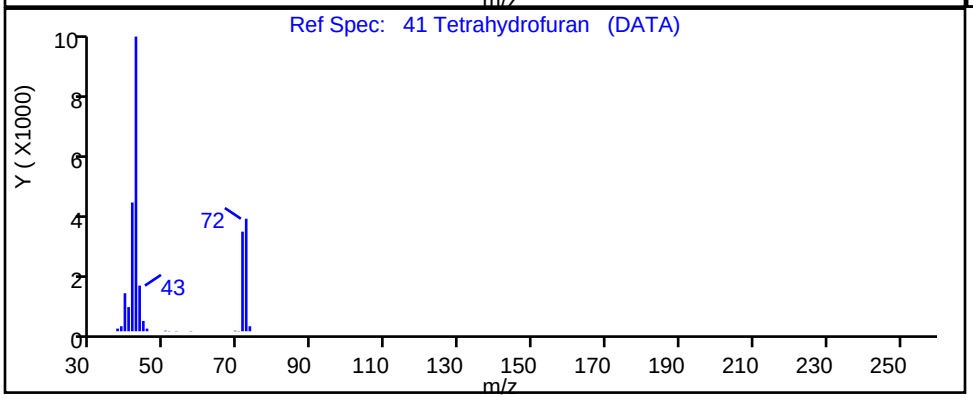
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.23 | 42.00 | 2190 | 0.096305 |
| 9.21 | 72.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

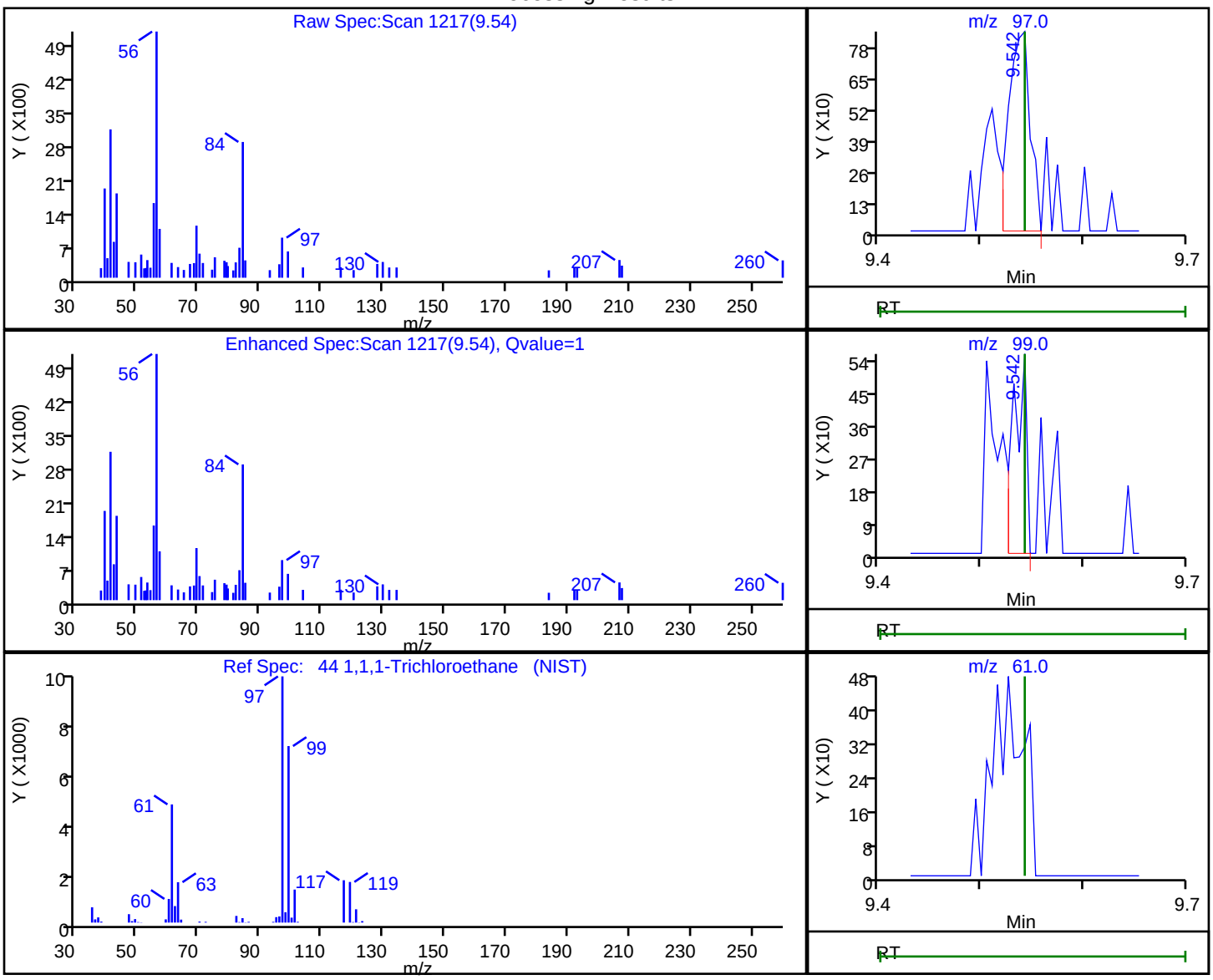
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.54 | 97.00 | 1233 | 0.011132 |
| 9.54 | 99.00 | 491 | |
| 9.54 | 61.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

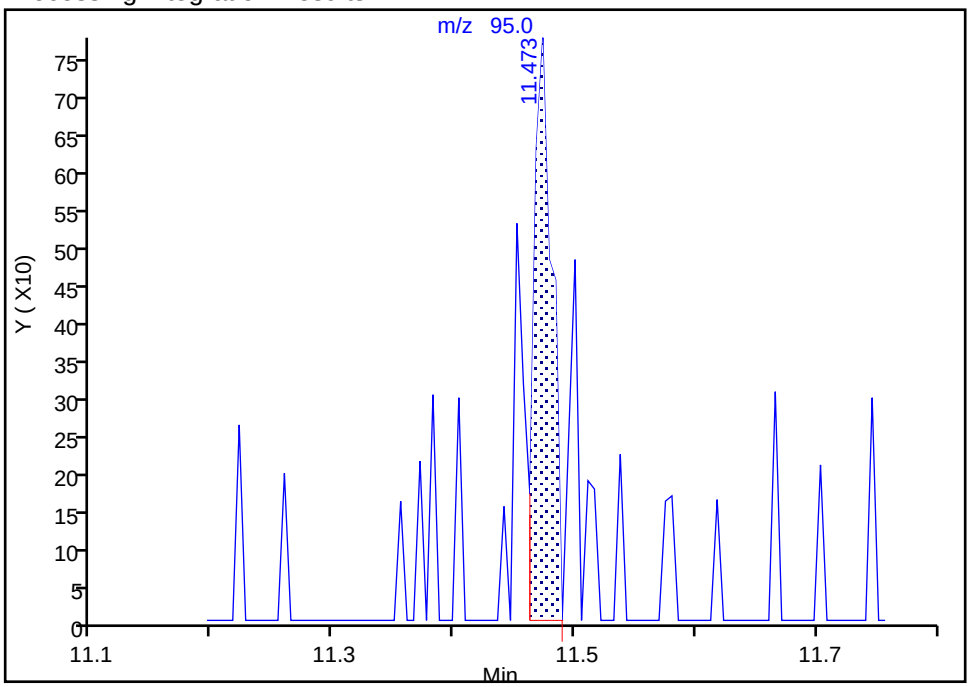
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Signal: 1

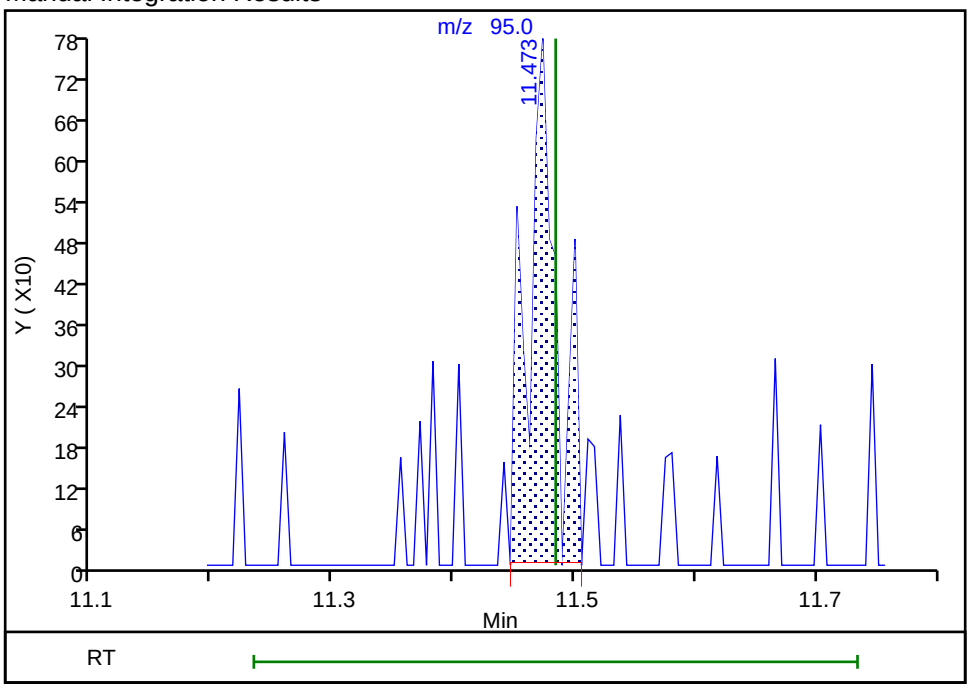
Processing Integration Results

RT: 11.47
Area: 801
Amount: 0.011532
Amount Units: ppb v/v




Manual Integration Results

RT: 11.47
Area: 1286
Amount: 0.018514
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:07:30

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

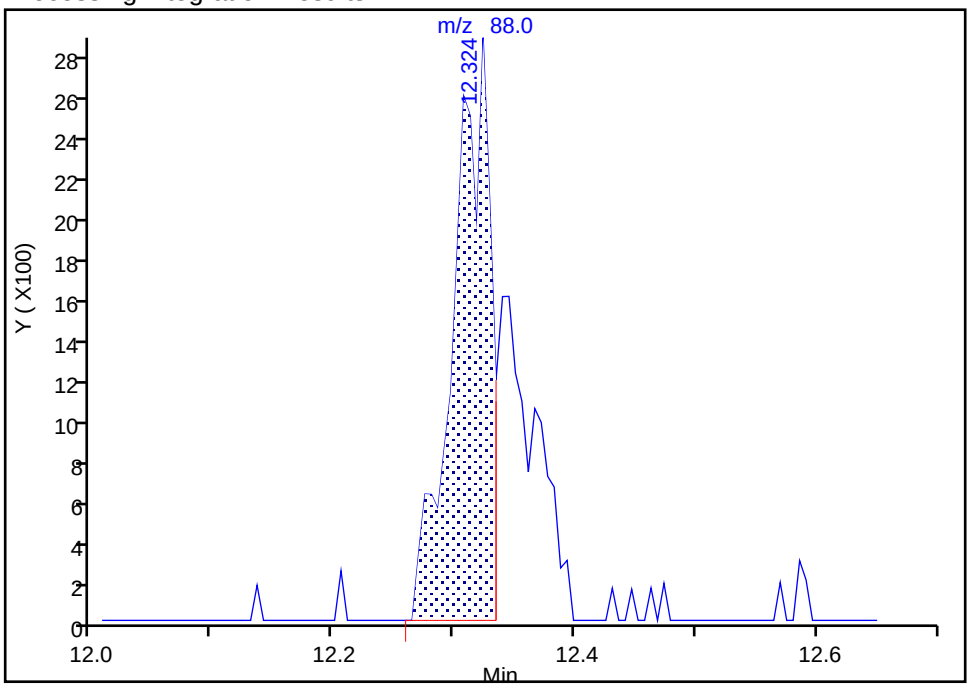
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

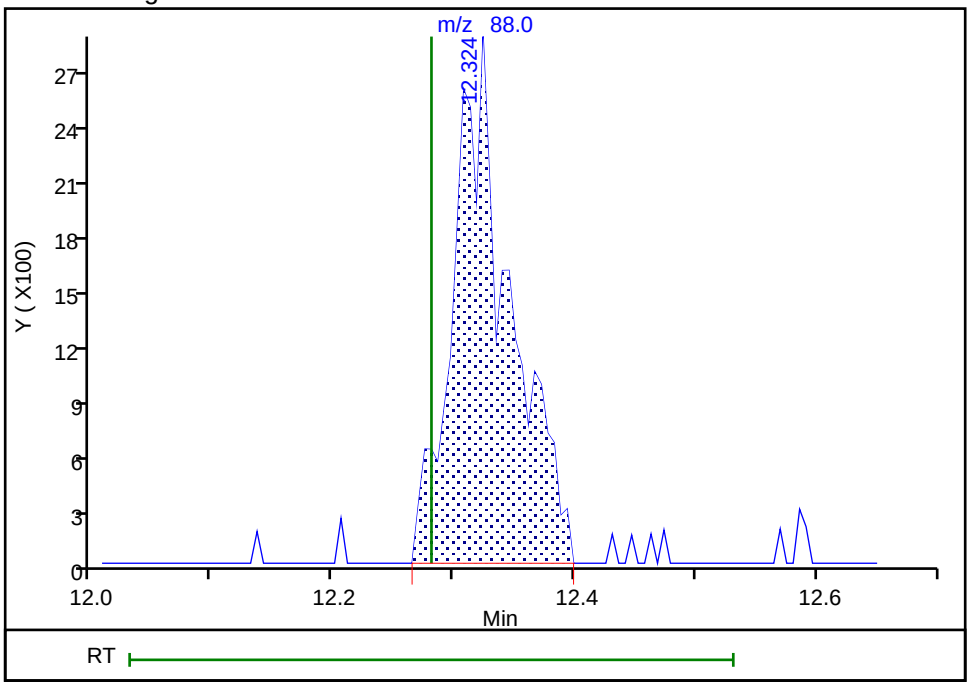
Processing Integration Results

RT: 12.32
Area: 5984
Amount: 0.306696
Amount Units: ppb v/v




Manual Integration Results

RT: 12.32
Area: 9176
Amount: 0.470294
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:07:39

Audit Action: Manually Integrated Audit Reason: Assign Peak

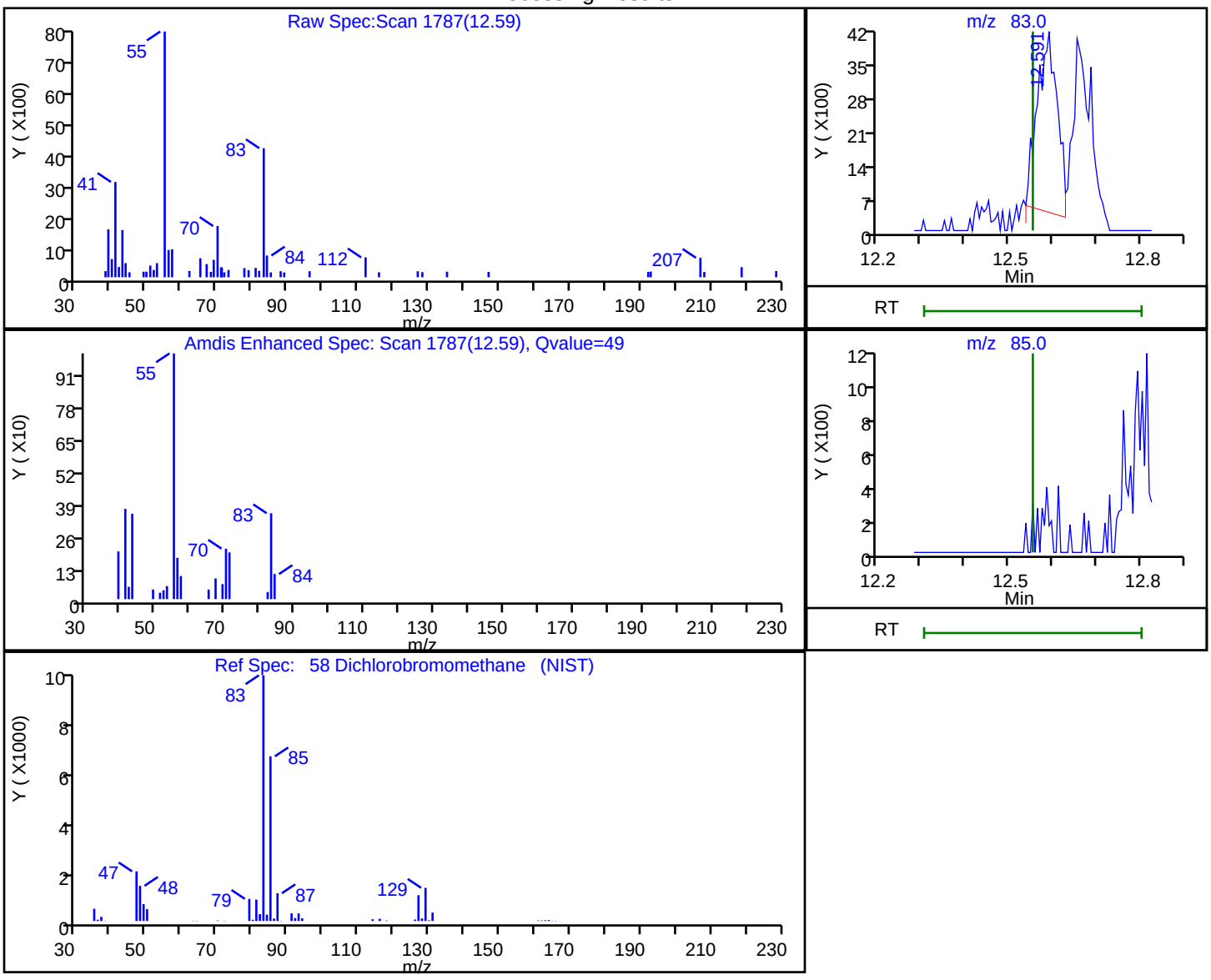
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 58 Dichlorobromomethane, CAS: 75-27-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.59 | 83.00 | 12000 | 0.111248 |
| 12.55 | 85.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

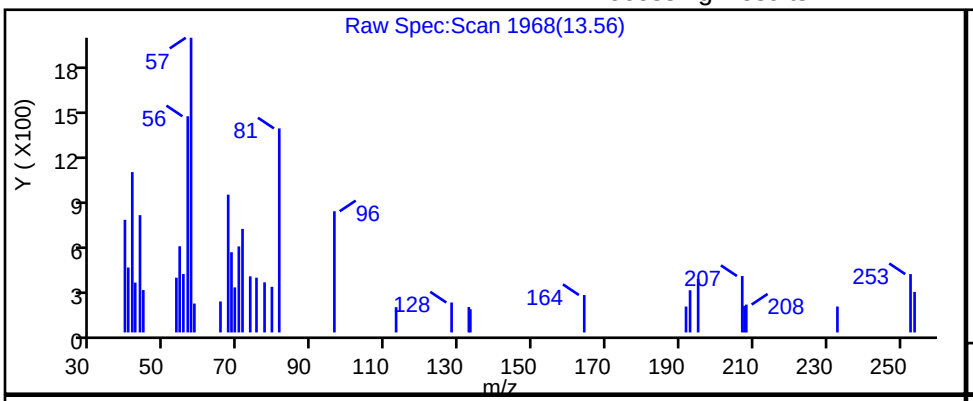
User Disabled Compound Report

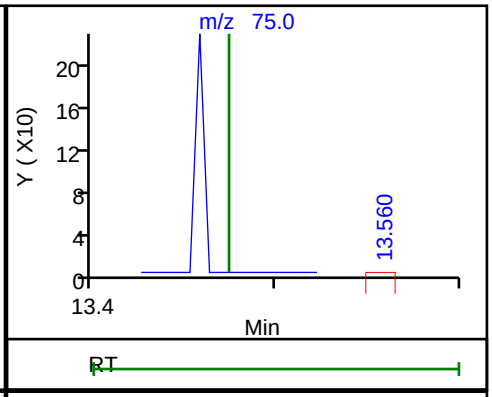
TestAmerica Burlington

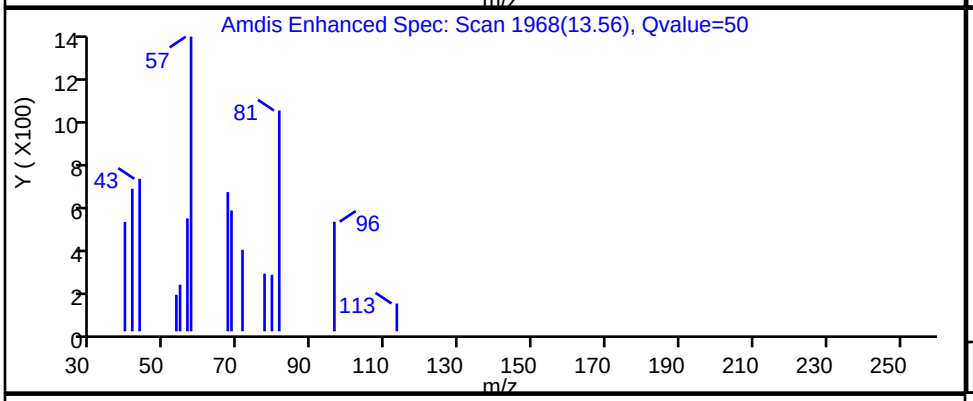
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

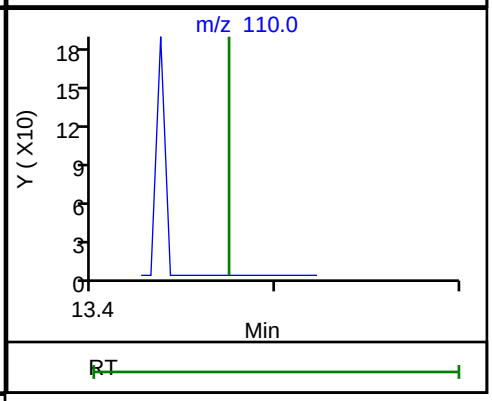
## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

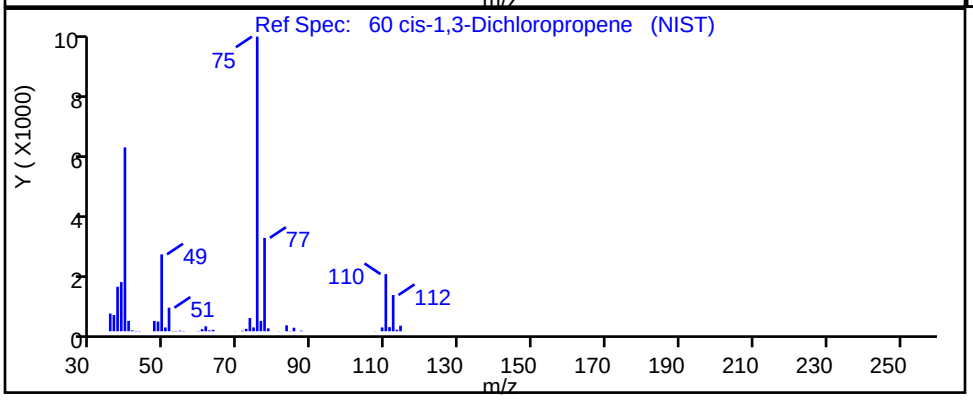
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.56 | 75.00 | 213 | 0.003189 |
| 13.47 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

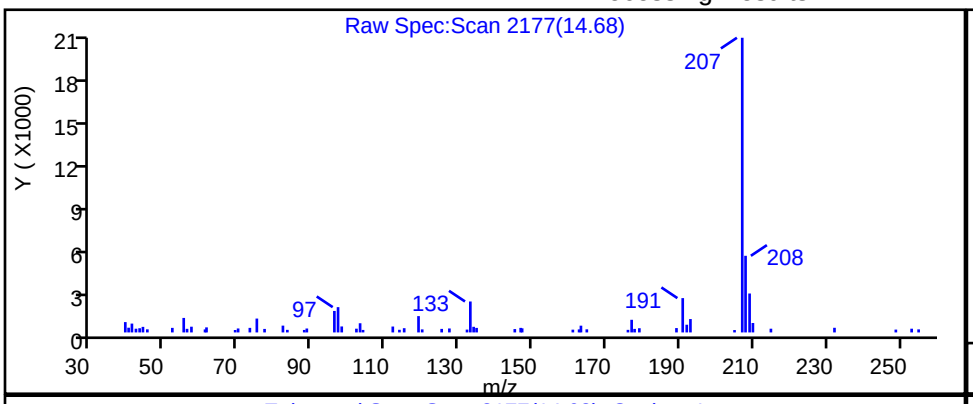
User Disabled Compound Report

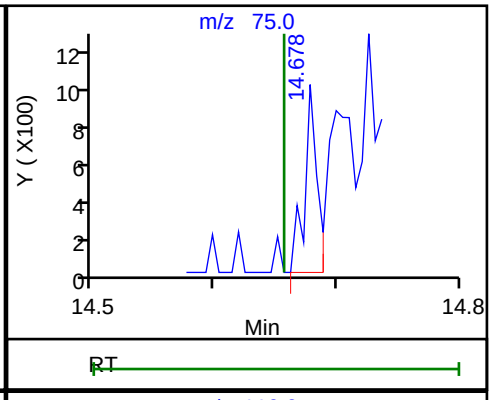
TestAmerica Burlington

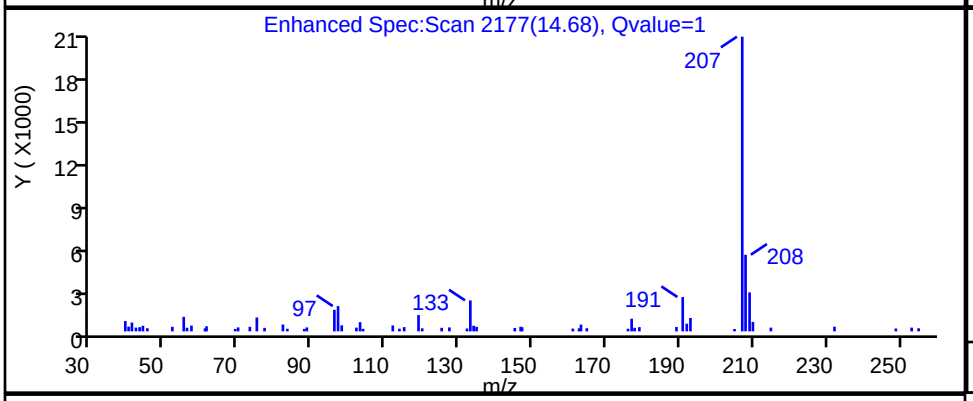
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

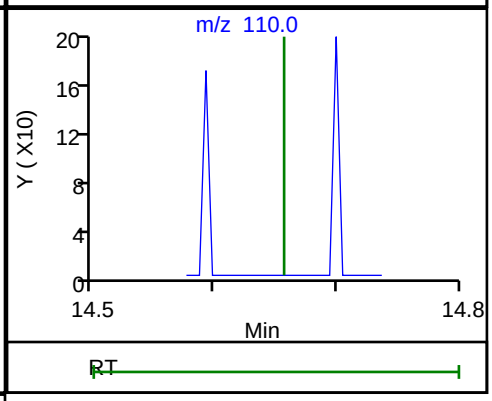
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

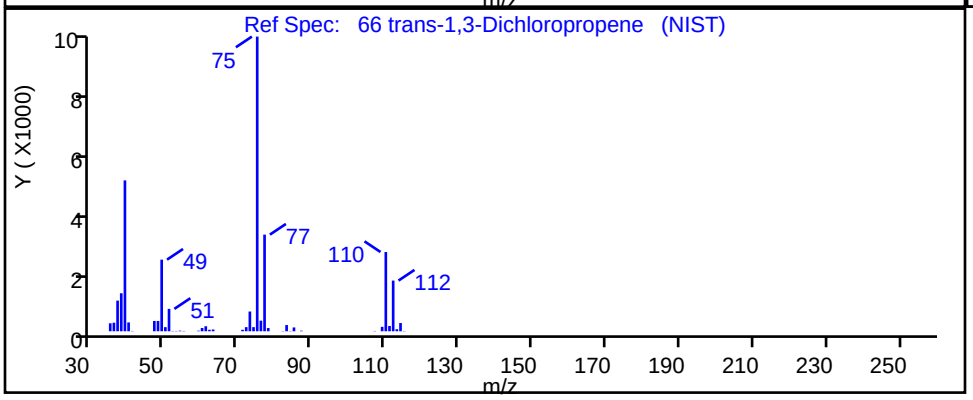
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.68 | 75.00 | 684 | 0.010413 |
| 14.65 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

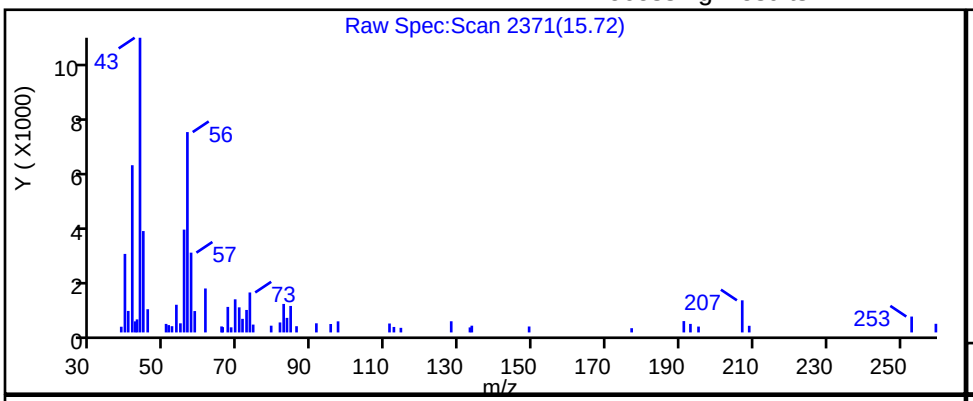
User Disabled Compound Report

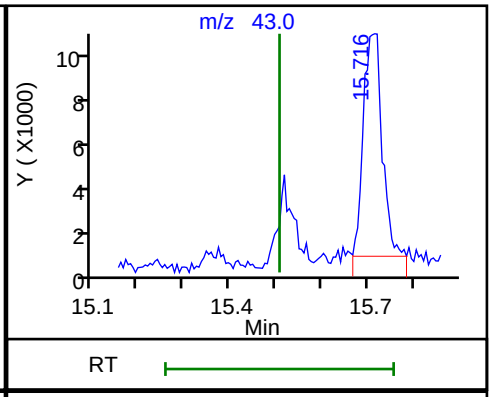
TestAmerica Burlington

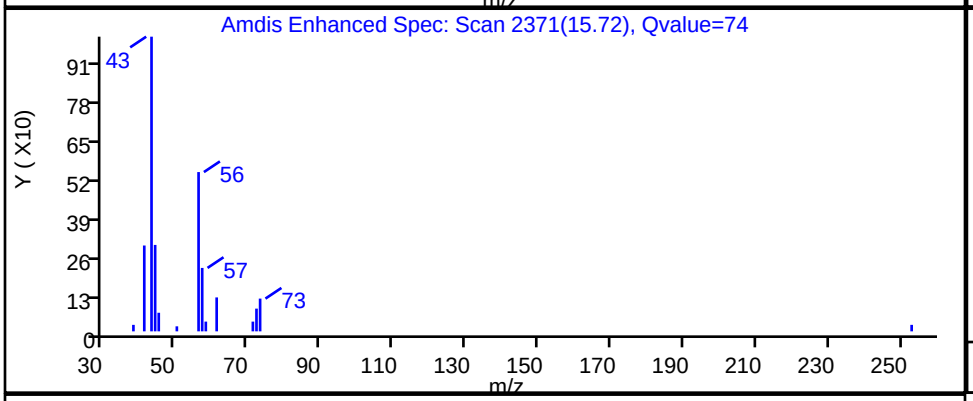
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

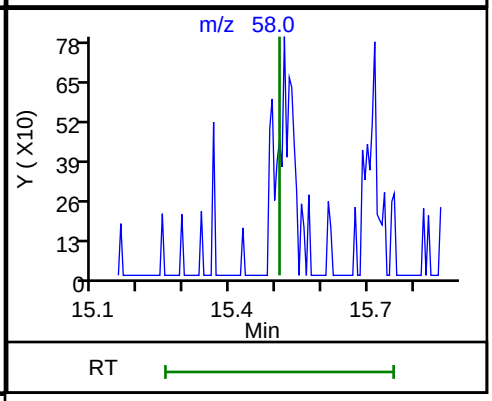
## 69 2-Hexanone, CAS: 591-78-6

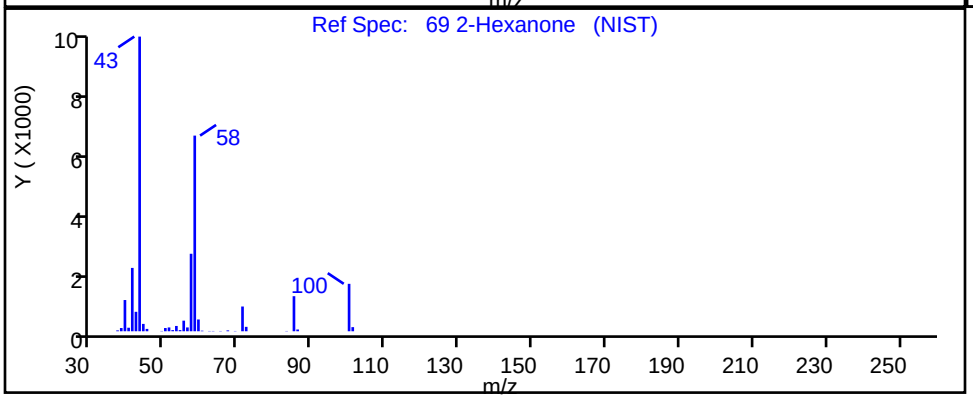
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.72 | 43.00 | 28506 | 0.382348 |
| 15.51 | 58.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

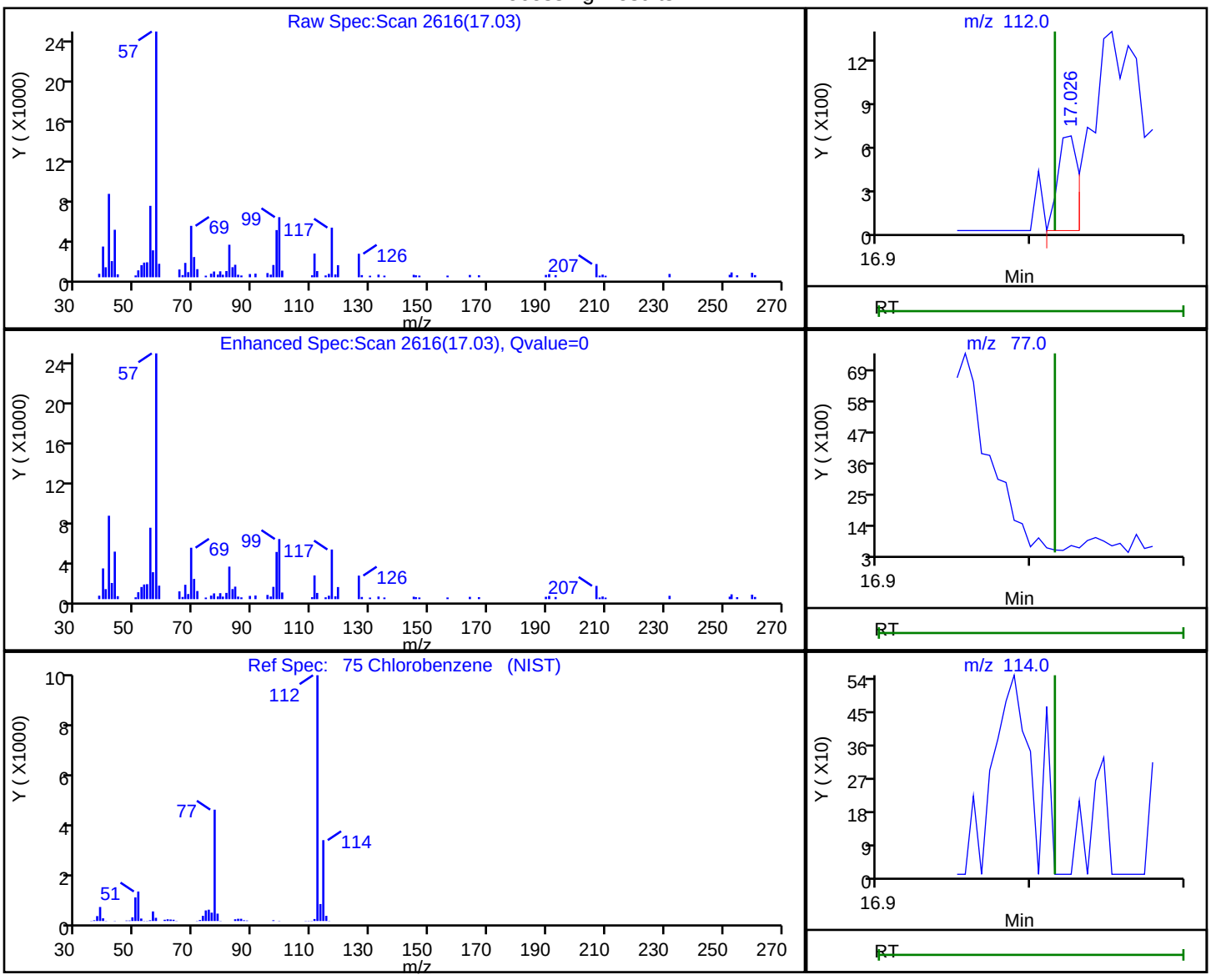
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.03 | 112.00 | 591 | 0.004530 |
| 17.02 | 77.00 | 0 | |
| 17.02 | 114.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:07:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

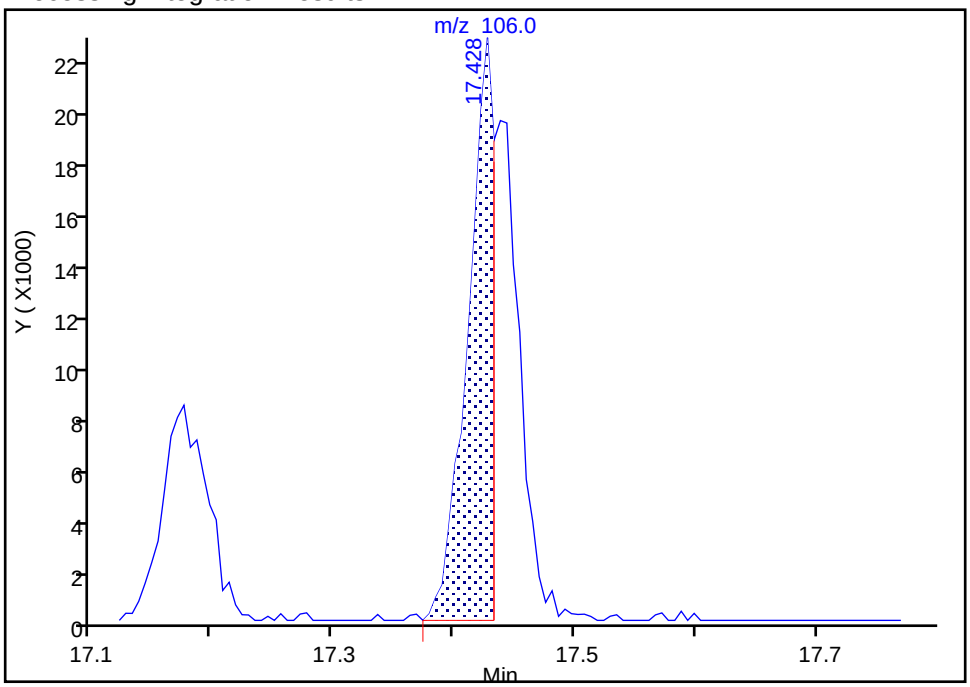
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

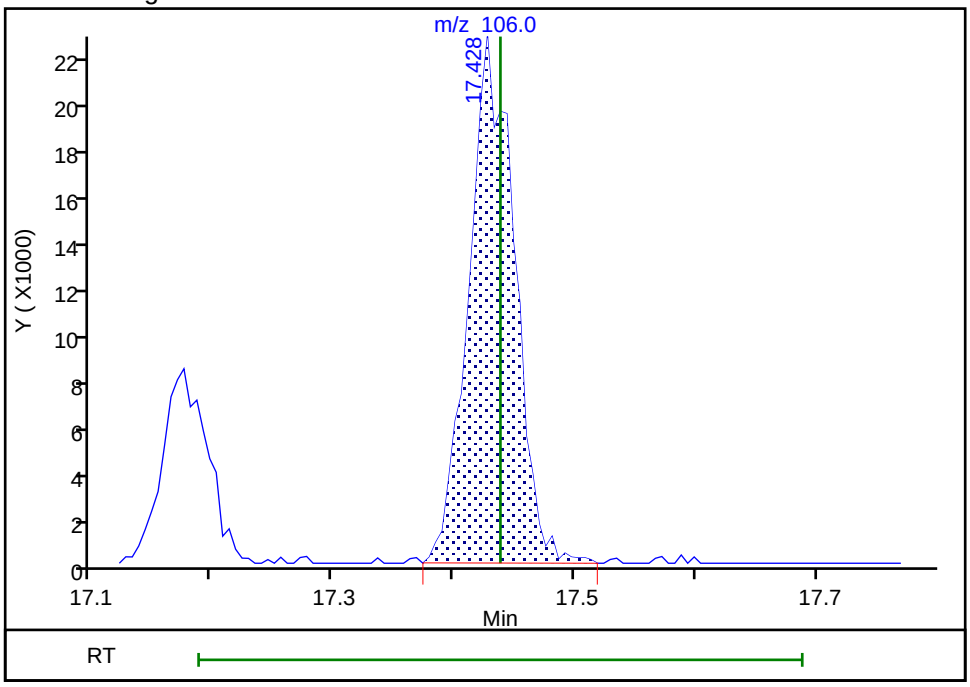
Processing Integration Results

RT: 17.43
Area: 34193
Amount: 0.441610
Amount Units: ppb v/v




Manual Integration Results

RT: 17.43
Area: 59112
Amount: 0.763445
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 17:08:02

Audit Action: Manually Integrated Audit Reason: Assign Peak

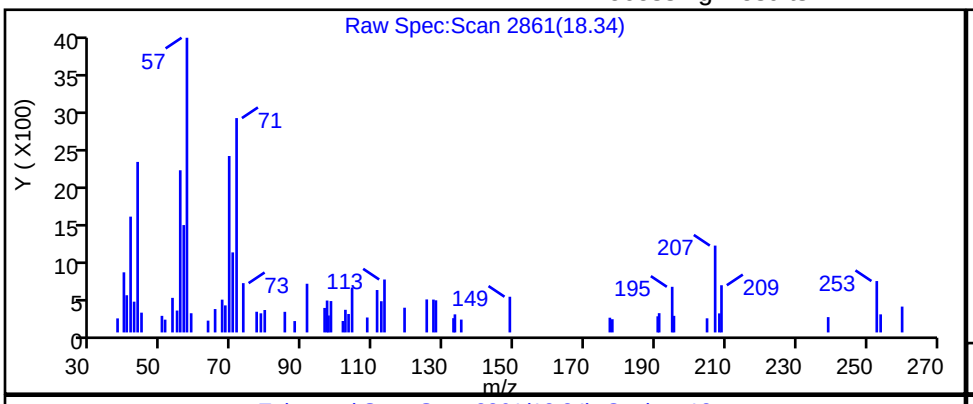
User Disabled Compound Report

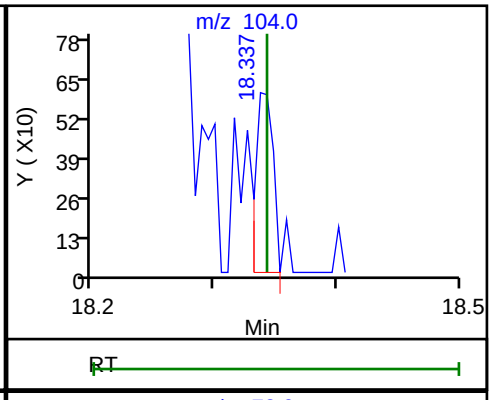
TestAmerica Burlington

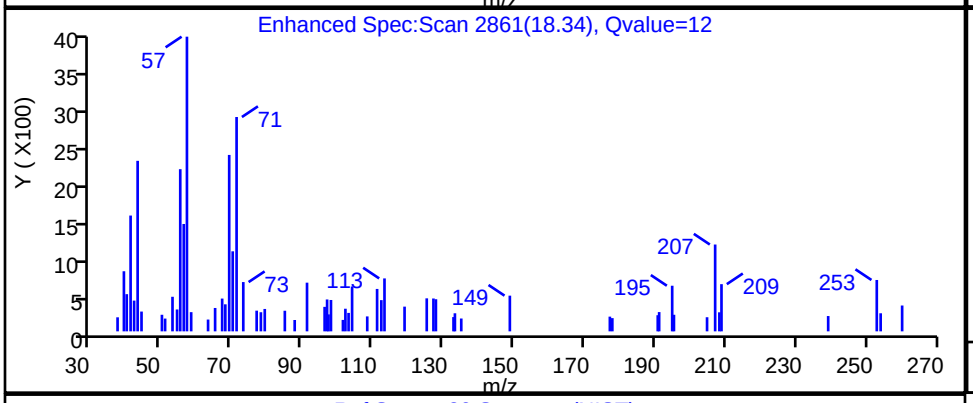
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

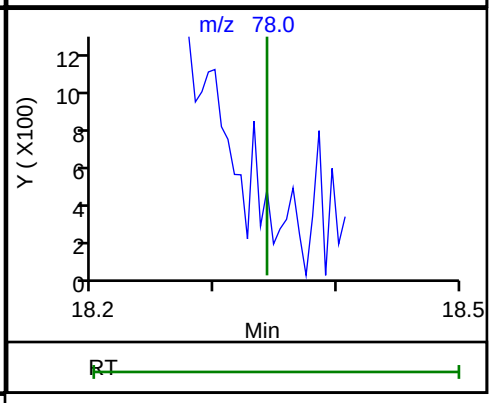
## 80 Styrene, CAS: 100-42-5

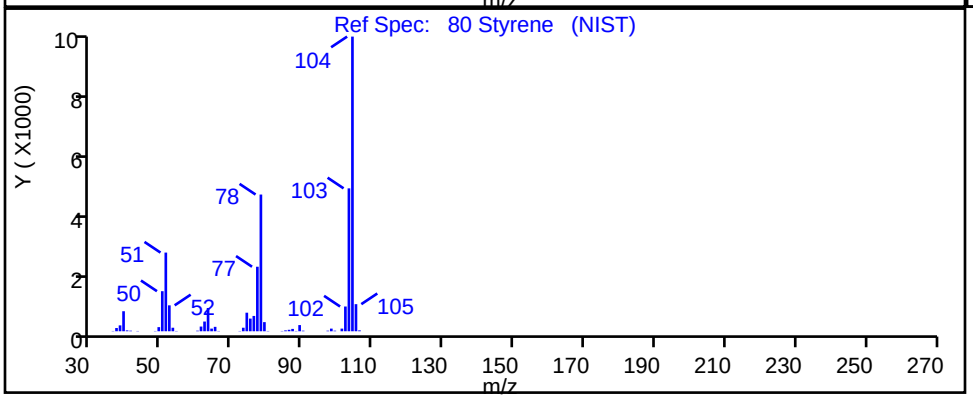
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.34 | 104.00 | 592 | 0.005255 |
| 18.34 | 78.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 17:08:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

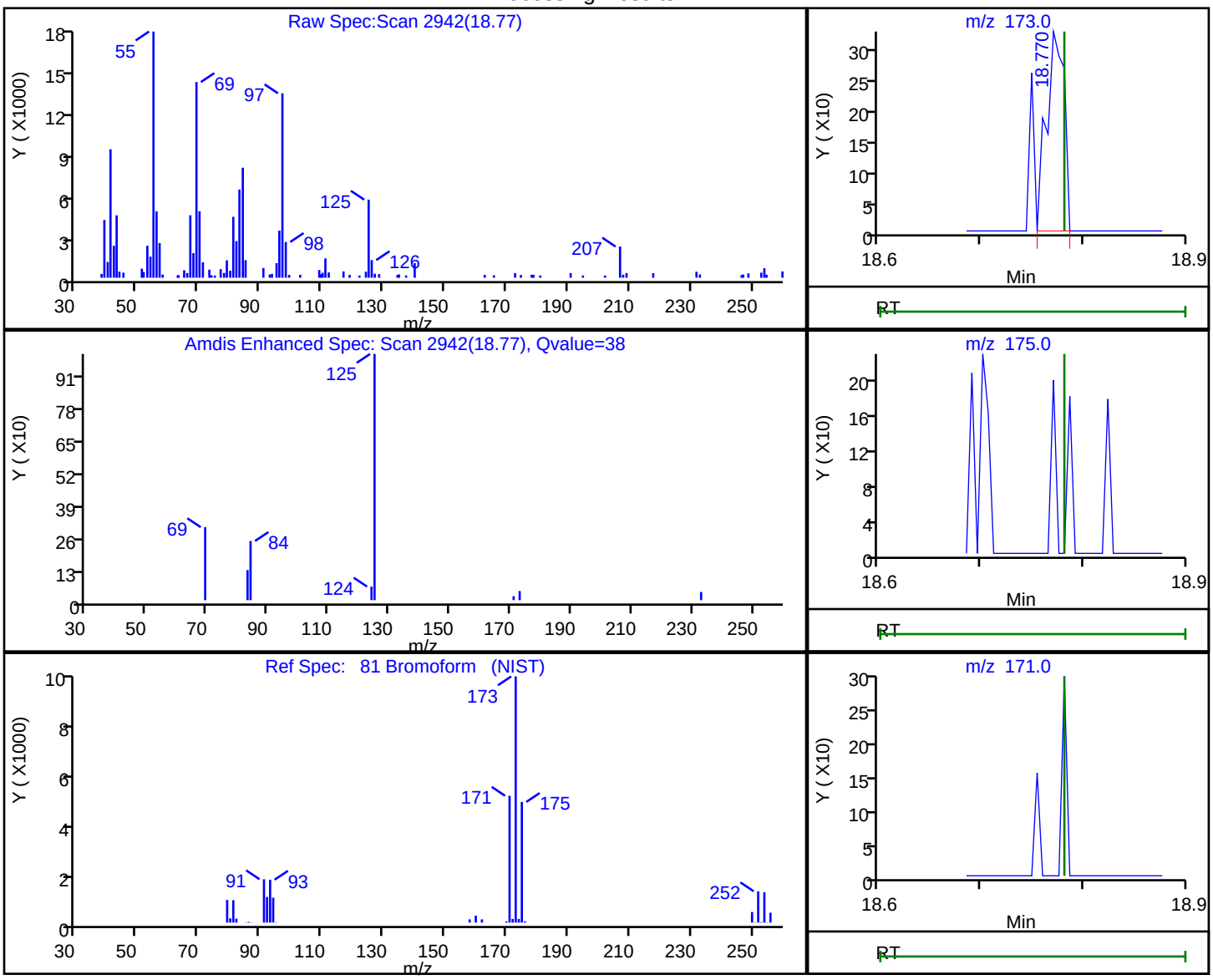
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 81 Bromoform, CAS: 75-25-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.77 | 173.00 | 393 | 0.003540 |
| 18.78 | 175.00 | 0 | |
| 18.78 | 171.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

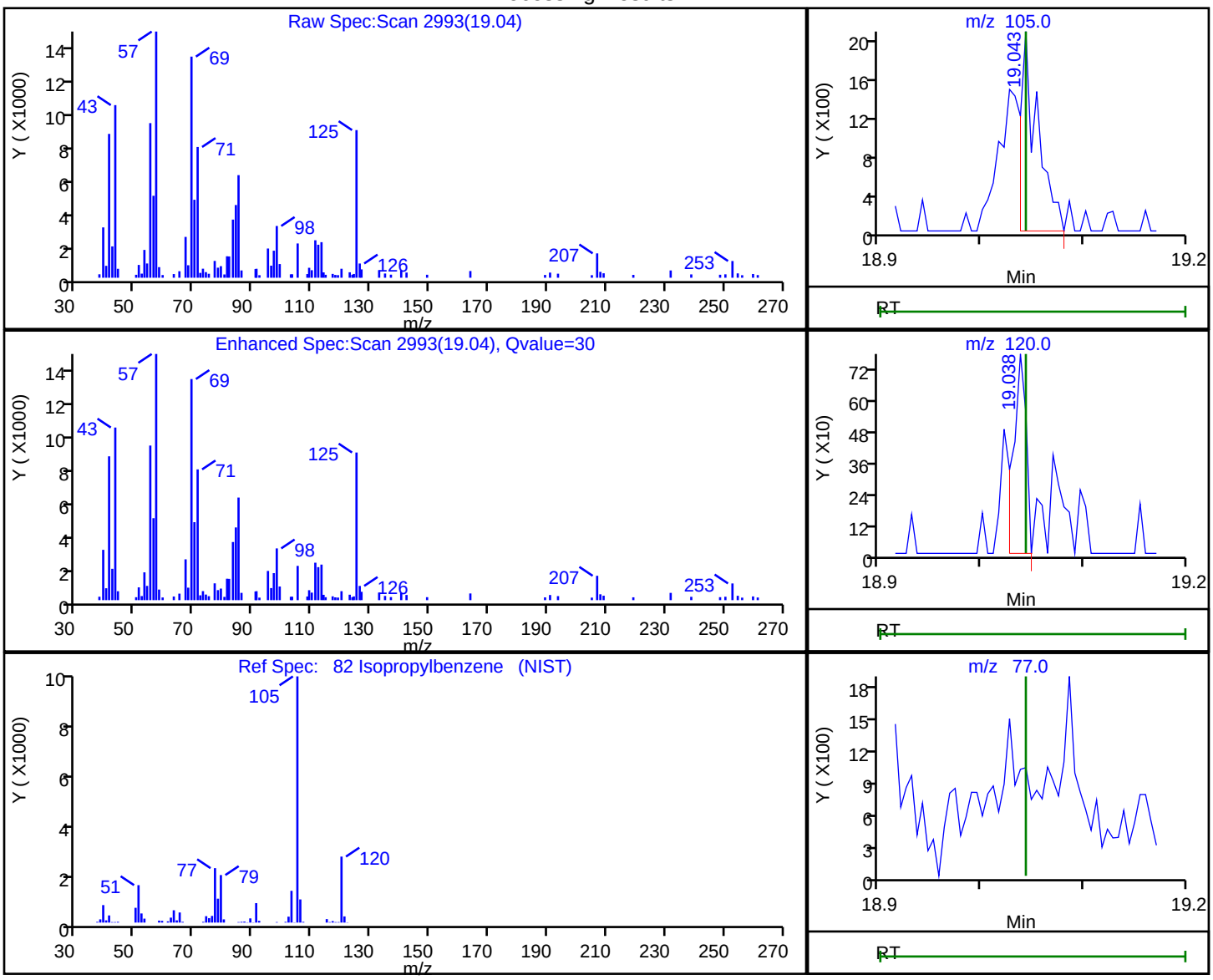
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.04 | 105.00 | 2373 | 0.011029 |
| 19.04 | 120.00 | 664 | |
| 19.04 | 77.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

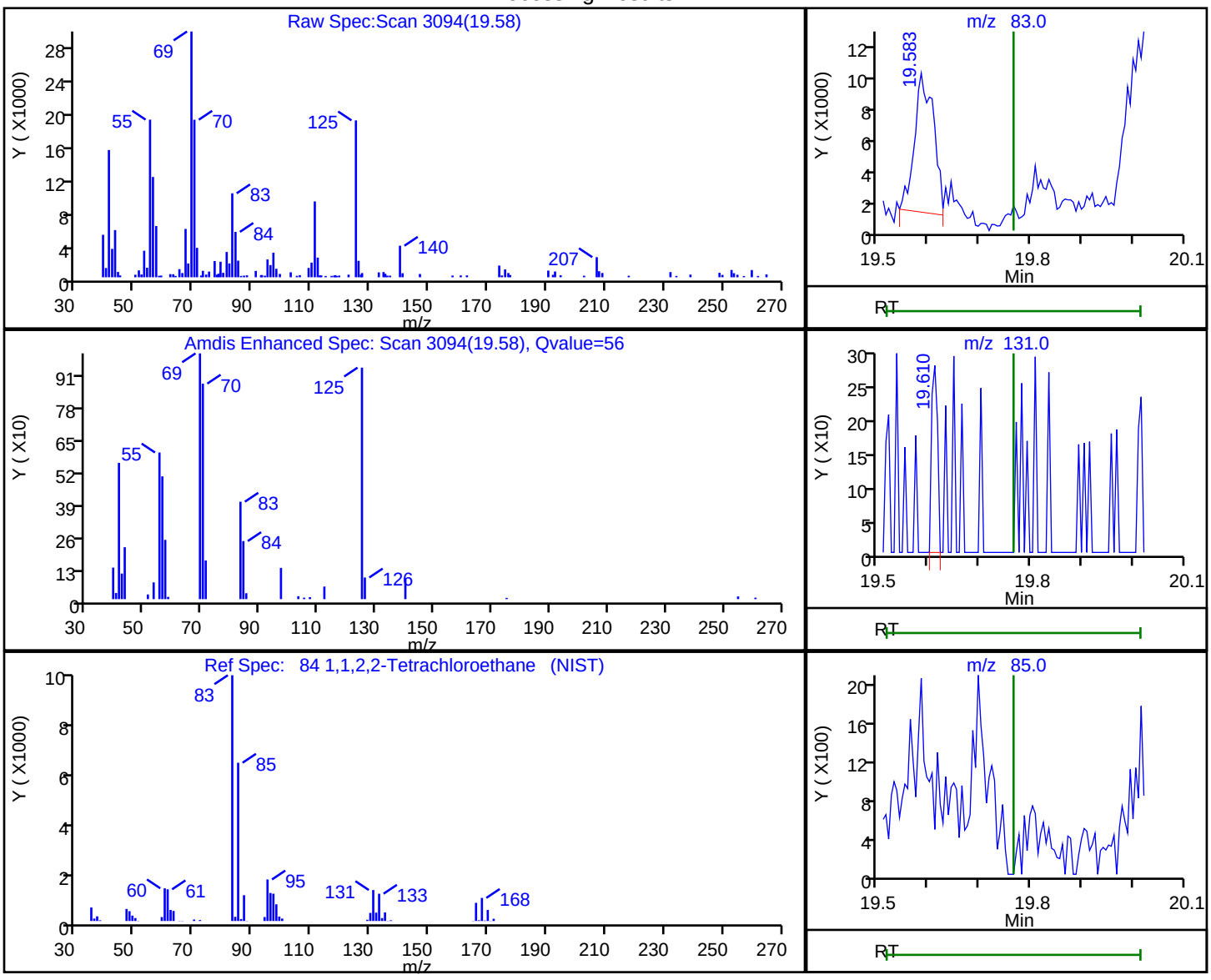
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.58 | 83.00 | 22723 | 0.193550 |
| 19.61 | 131.00 | 225 | |
| 19.76 | 85.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

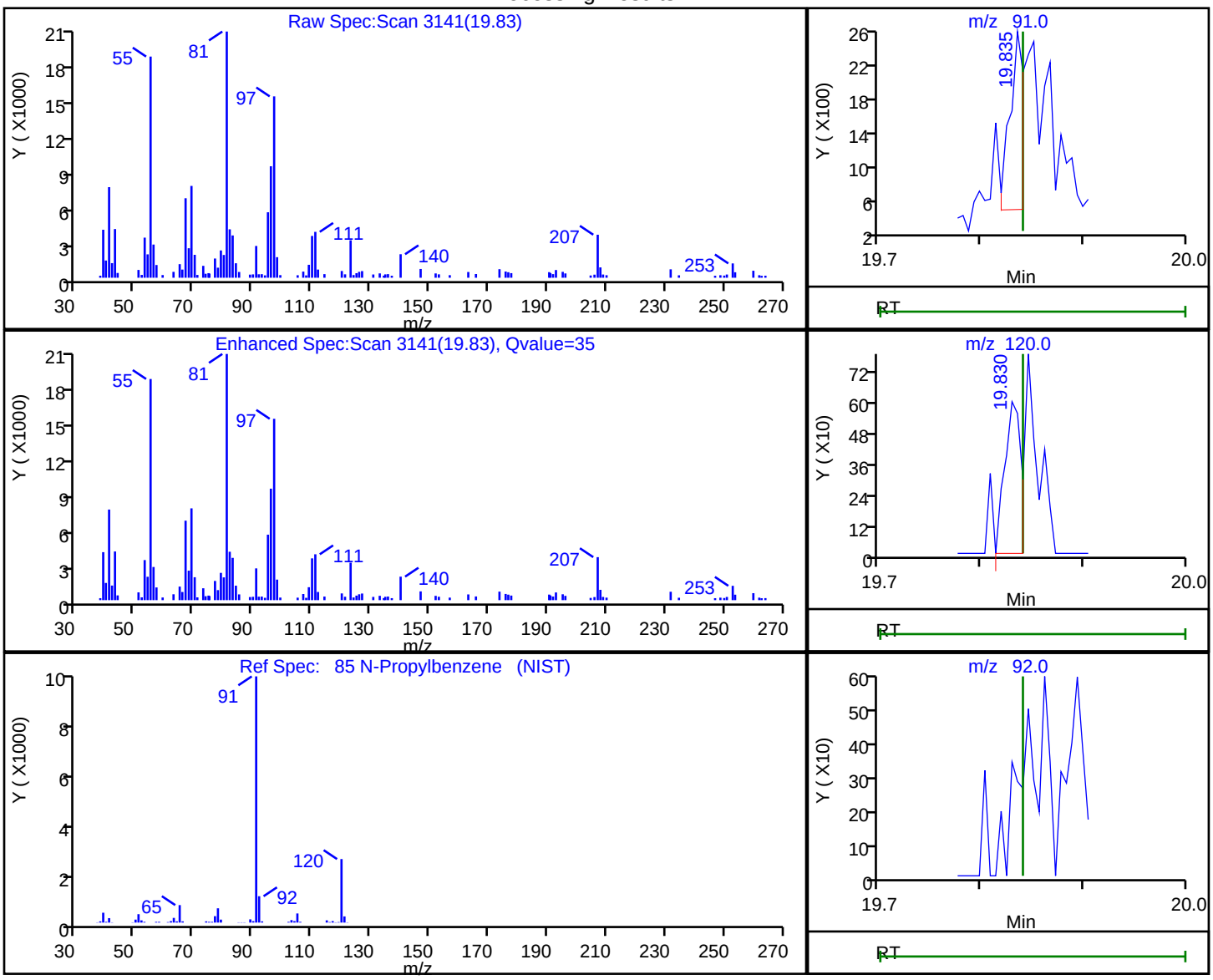
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.83 | 91.00 | 1918 | 0.007486 |
| 19.83 | 120.00 | 665 | |
| 19.85 | 92.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

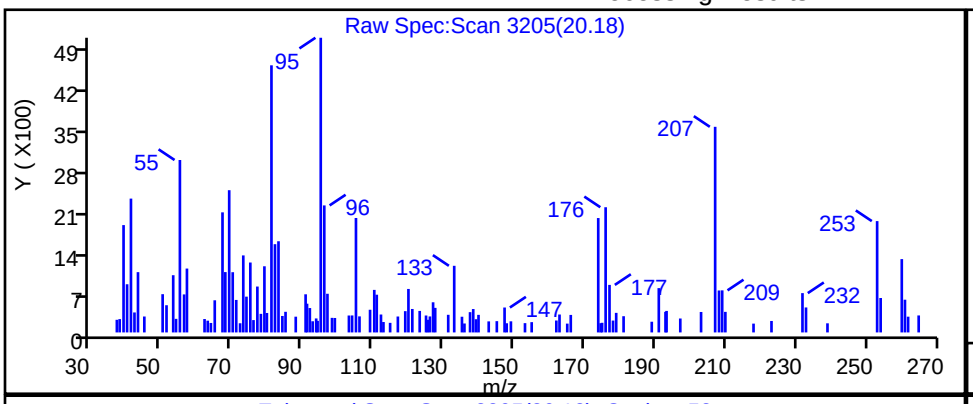
User Disabled Compound Report

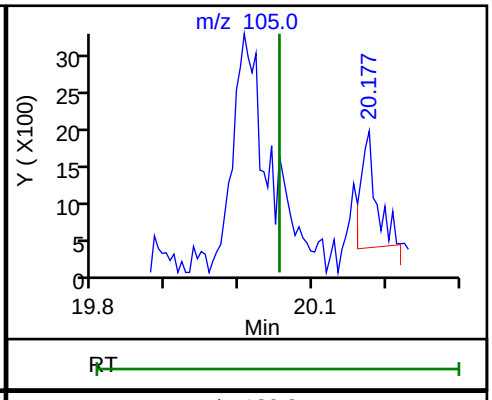
TestAmerica Burlington

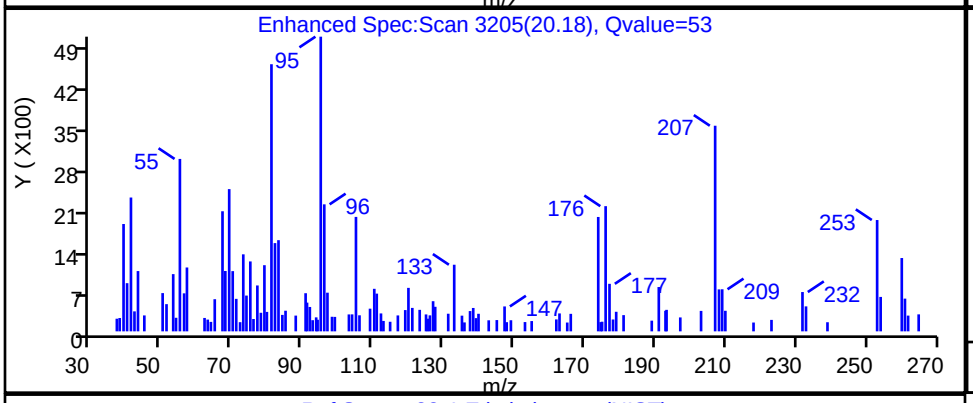
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

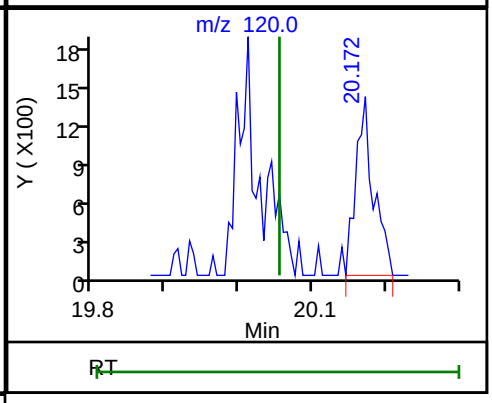
## 88 4-Ethyltoluene, CAS: 622-96-8

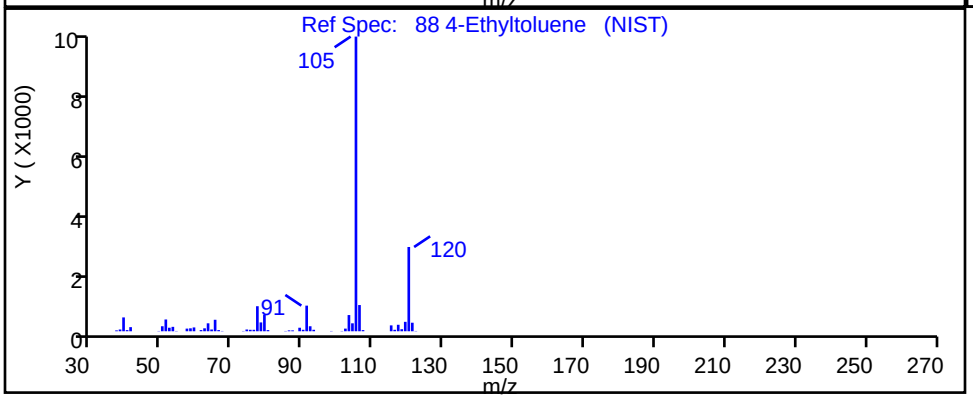
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.18 | 105.00 | 2312 | 0.010600 |
| 20.17 | 120.00 | 2299 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

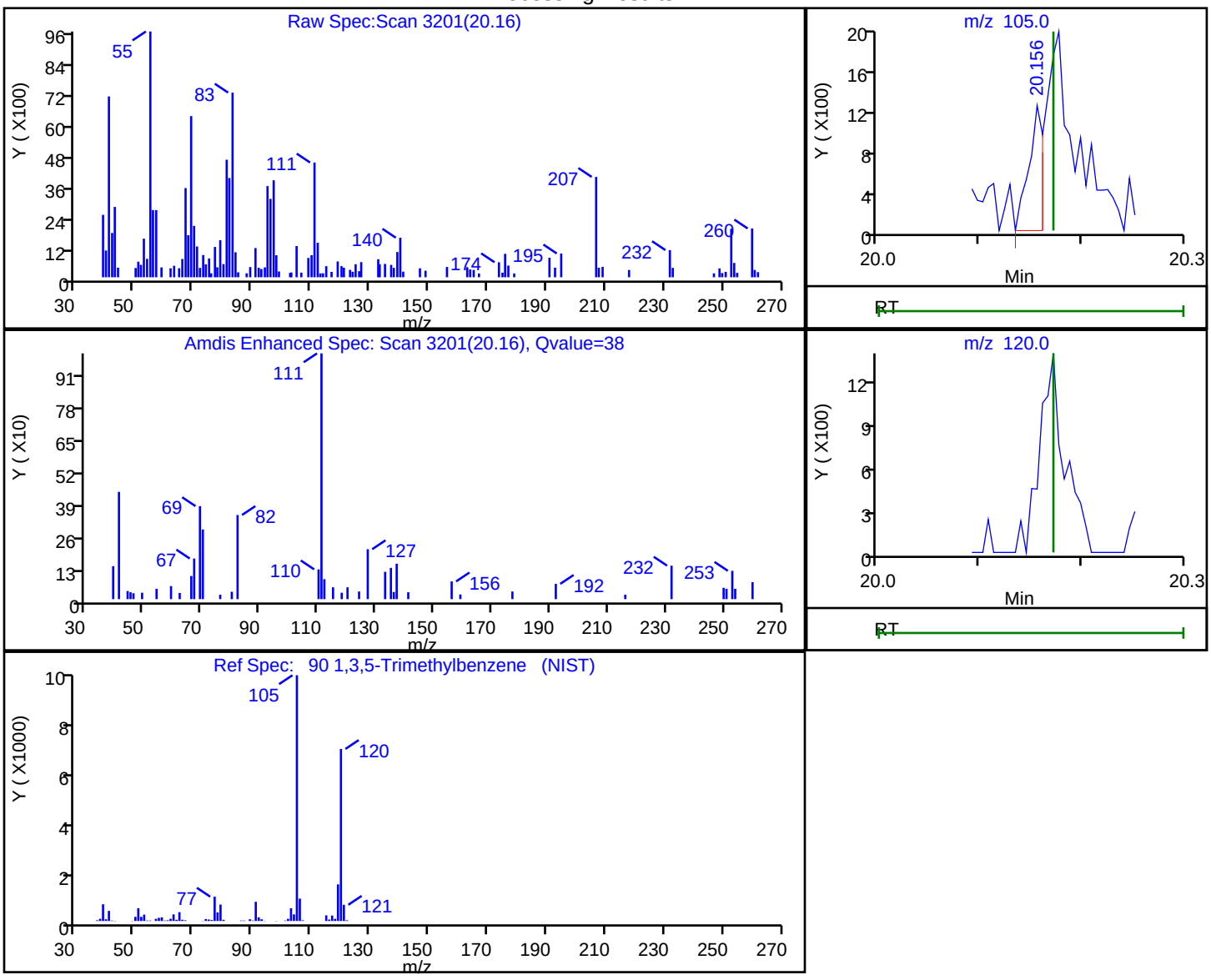
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.16 | 105.00 | 1192 | 0.006387 |
| 20.17 | 120.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

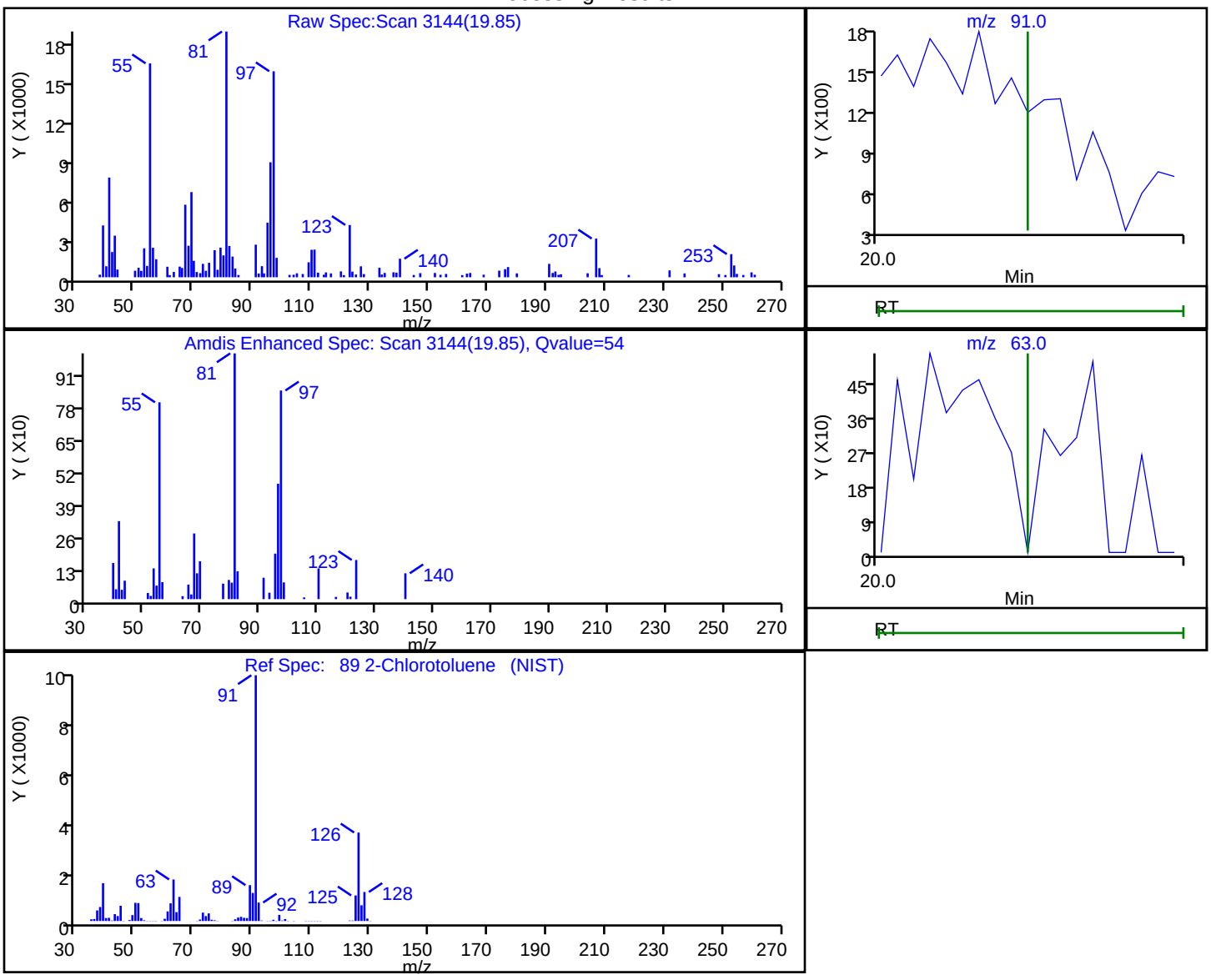
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.85 | 91.00 | 1964 | 0.010150 |
| 20.04 | 63.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

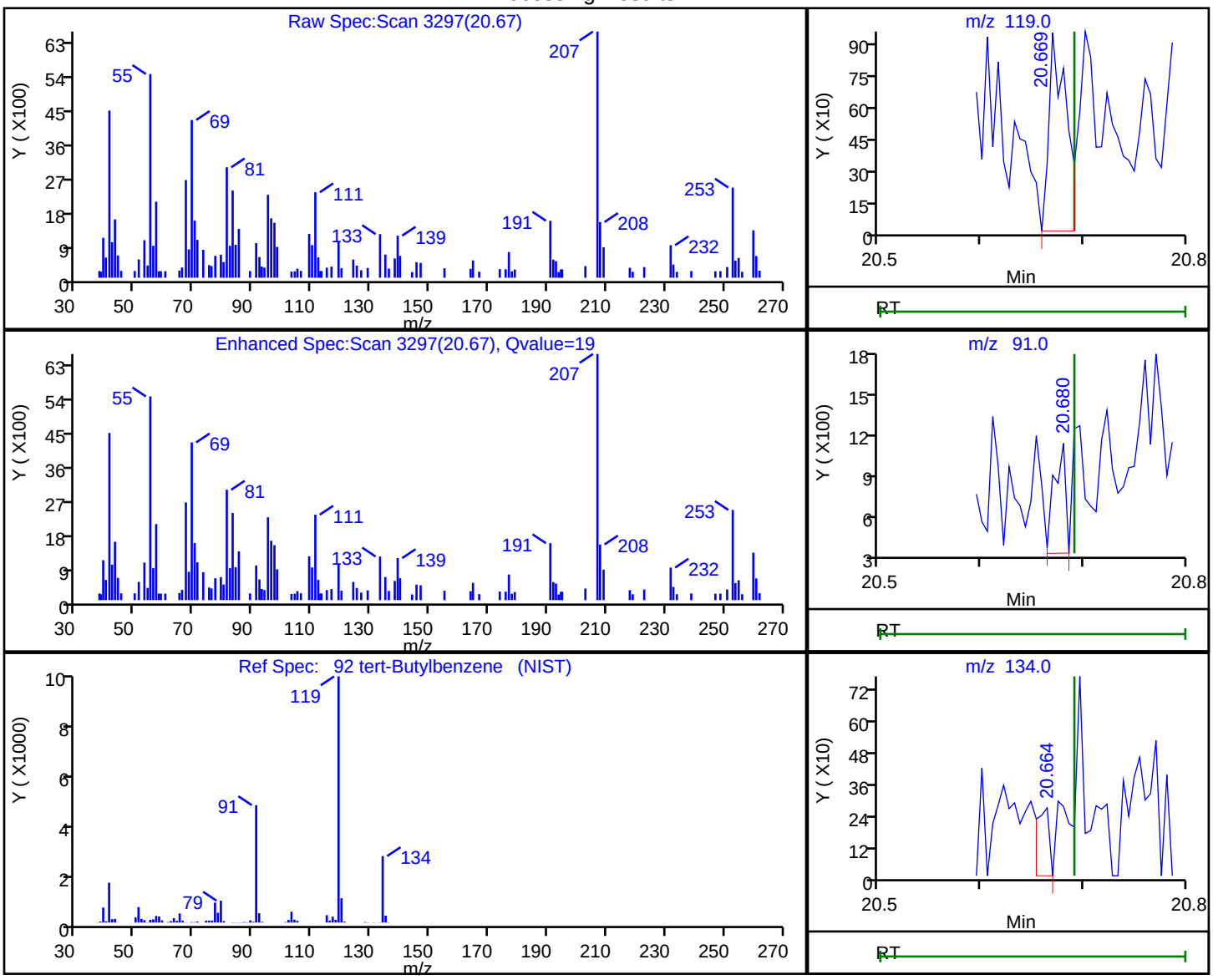
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.67 | 119.00 | 1127 | 0.006456 |
| 20.68 | 91.00 | 603 | |
| 20.66 | 134.00 | 228 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

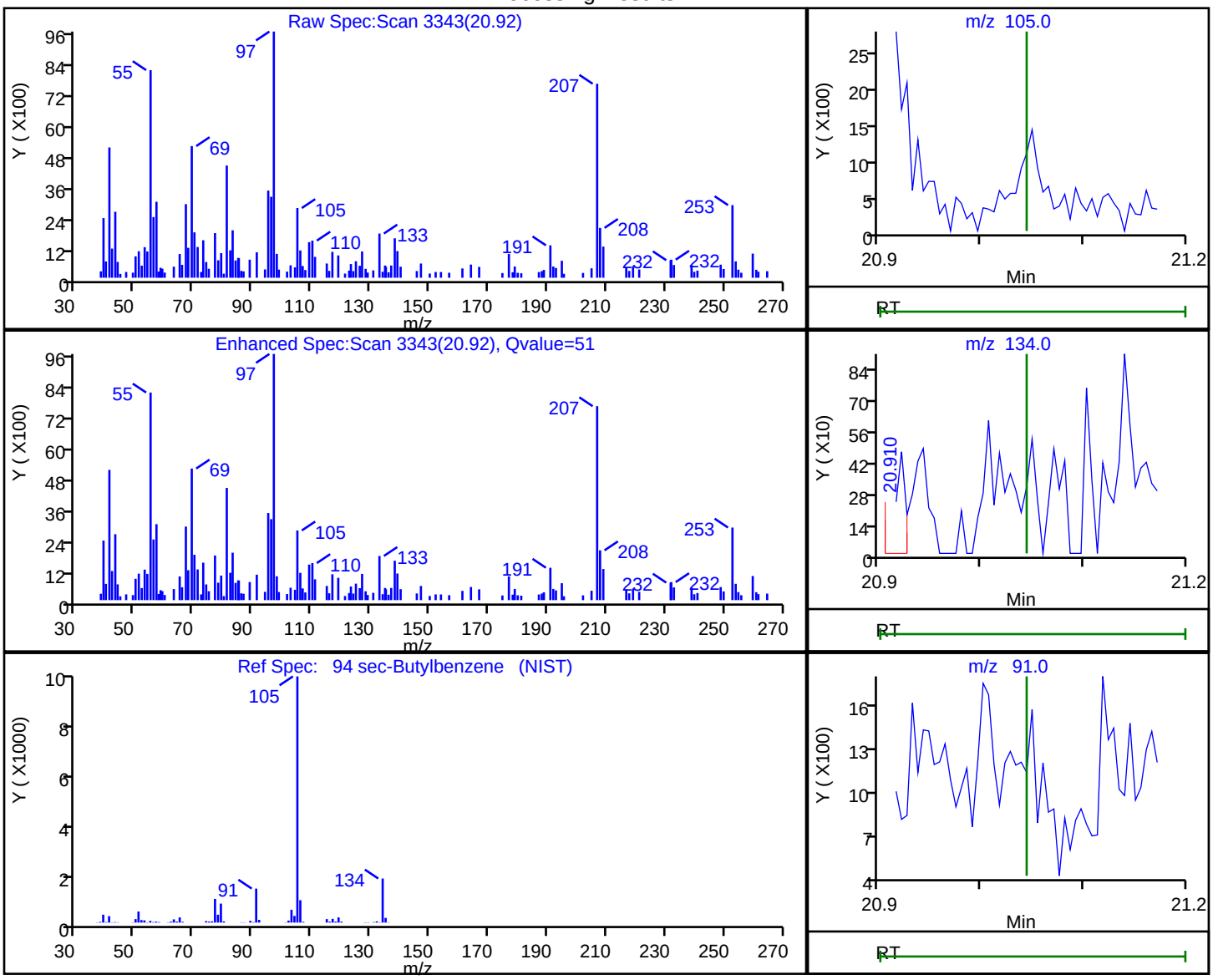
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.92 | 105.00 | 3075 | 0.011880 |
| 20.91 | 134.00 | 554 | |
| 20.92 | 91.00 | 354 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

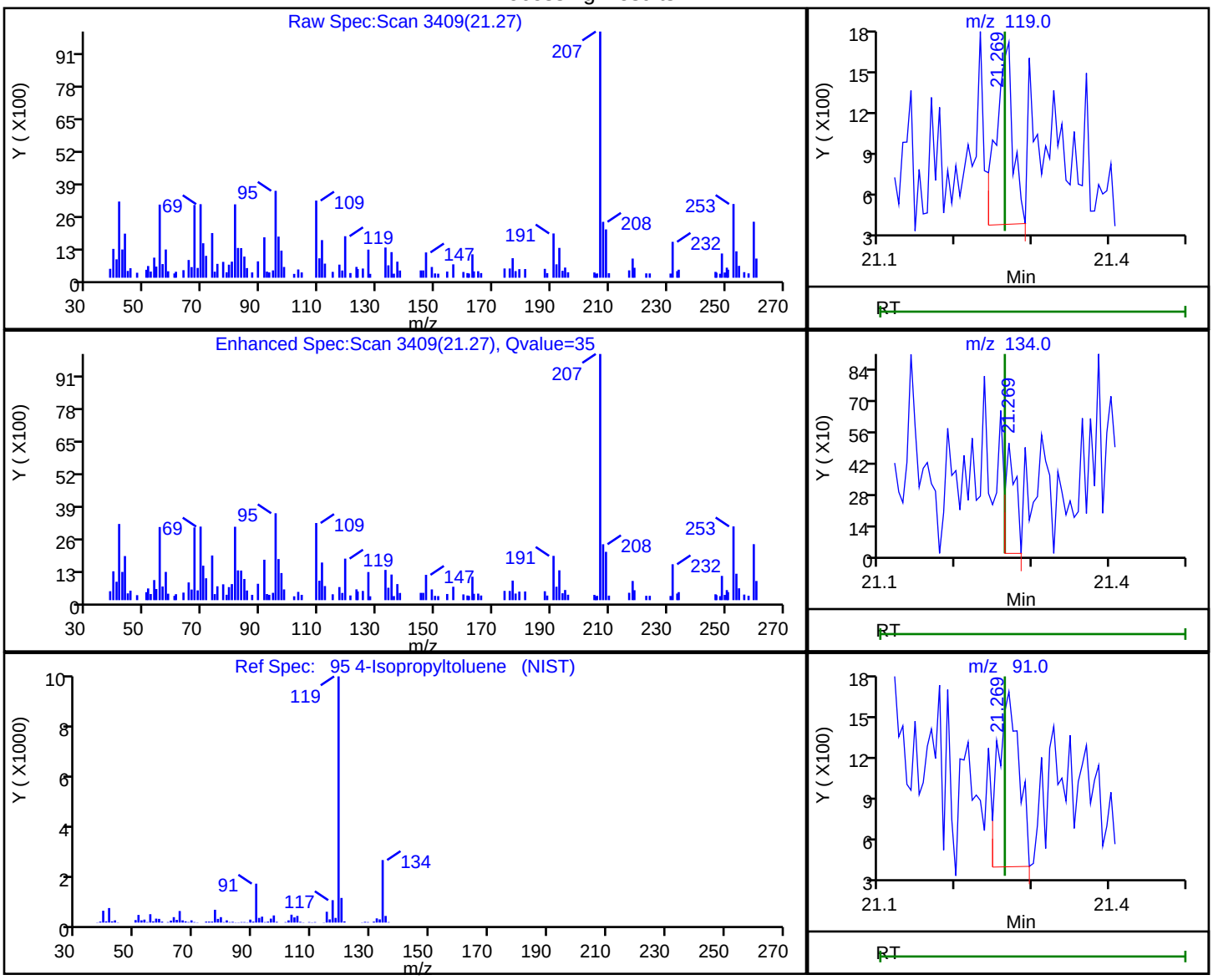
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.27 | 119.00 | 1874 | 0.008447 |
| 21.27 | 134.00 | 461 | |
| 21.27 | 91.00 | 2231 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

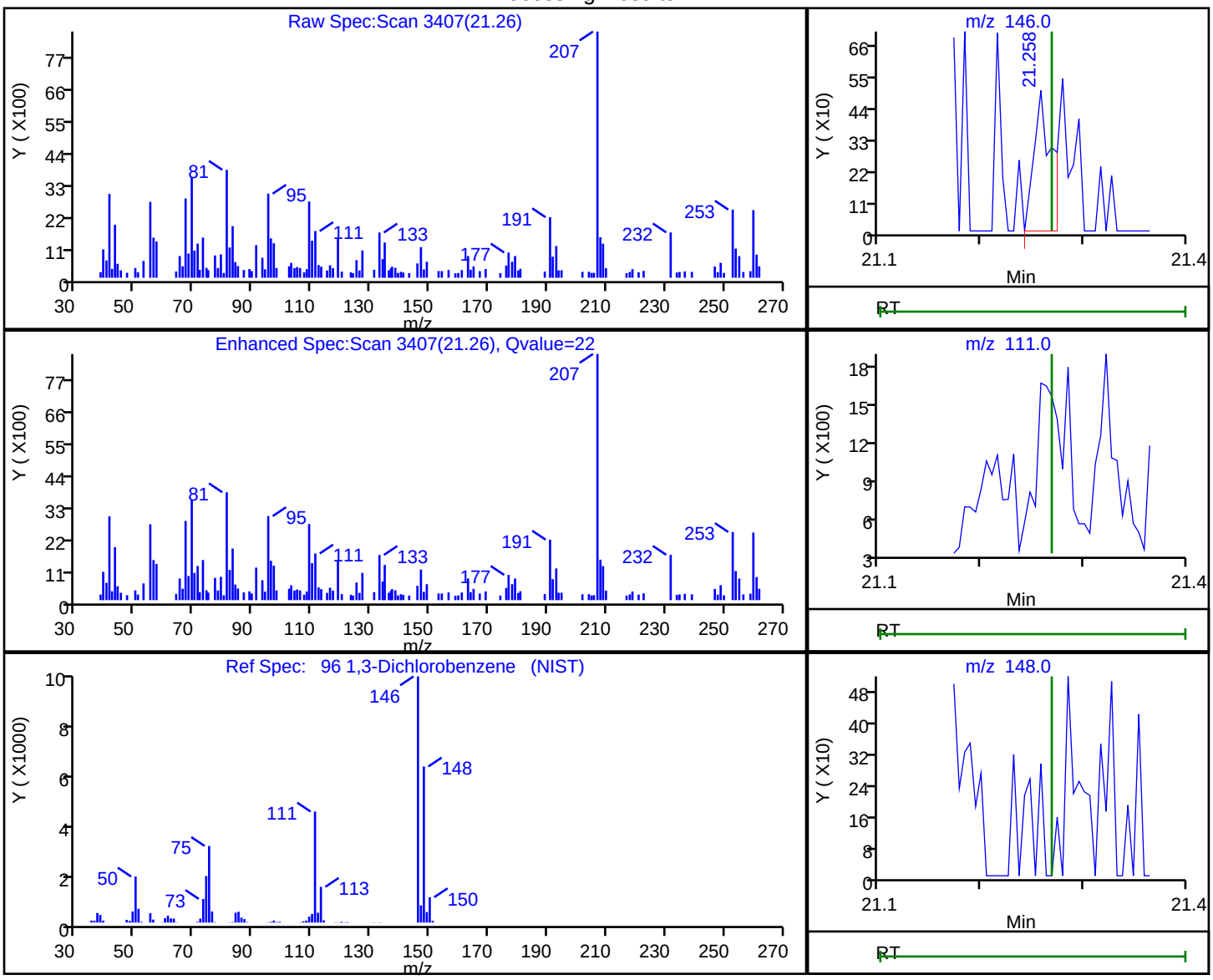
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.26 | 146.00 | 583 | 0.003907 |
| 21.27 | 111.00 | 0 | |
| 21.27 | 148.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

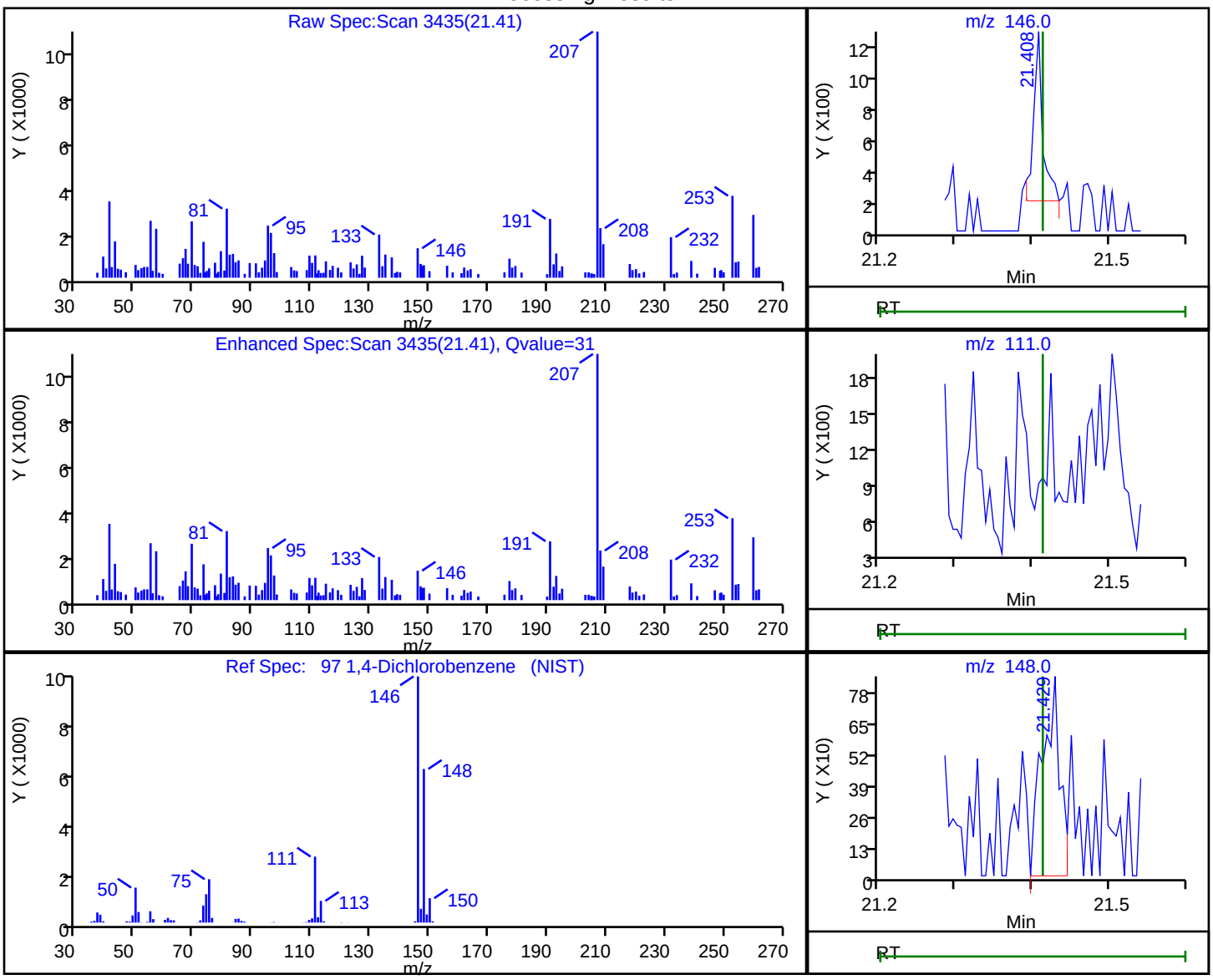
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.41 | 146.00 | 872 | 0.006111 |
| 21.43 | 148.00 | 1356 | |
| 21.41 | 111.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

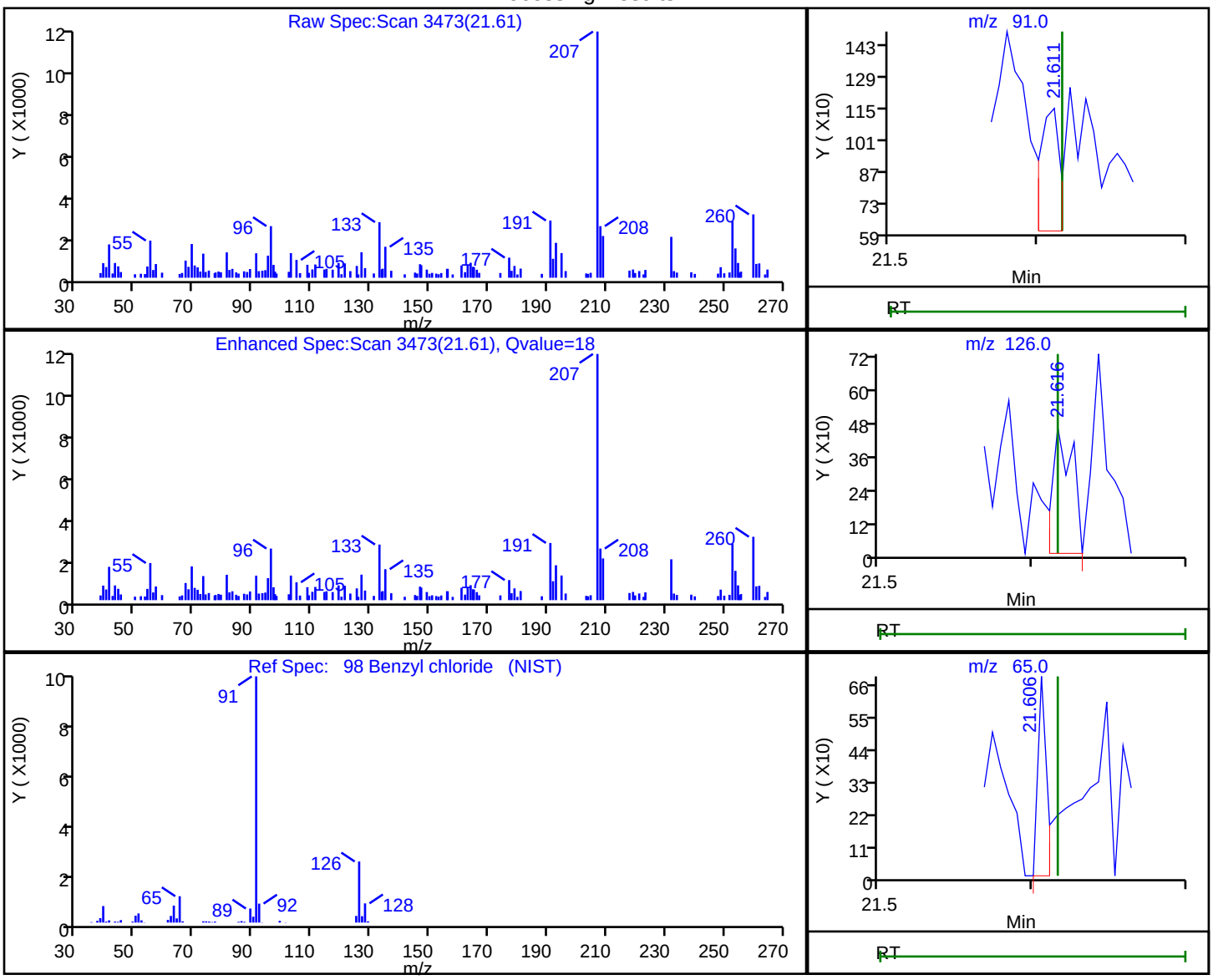
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.61 | 91.00 | 515 | 0.002924 |
| 21.62 | 126.00 | 420 | |
| 21.61 | 65.00 | 277 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

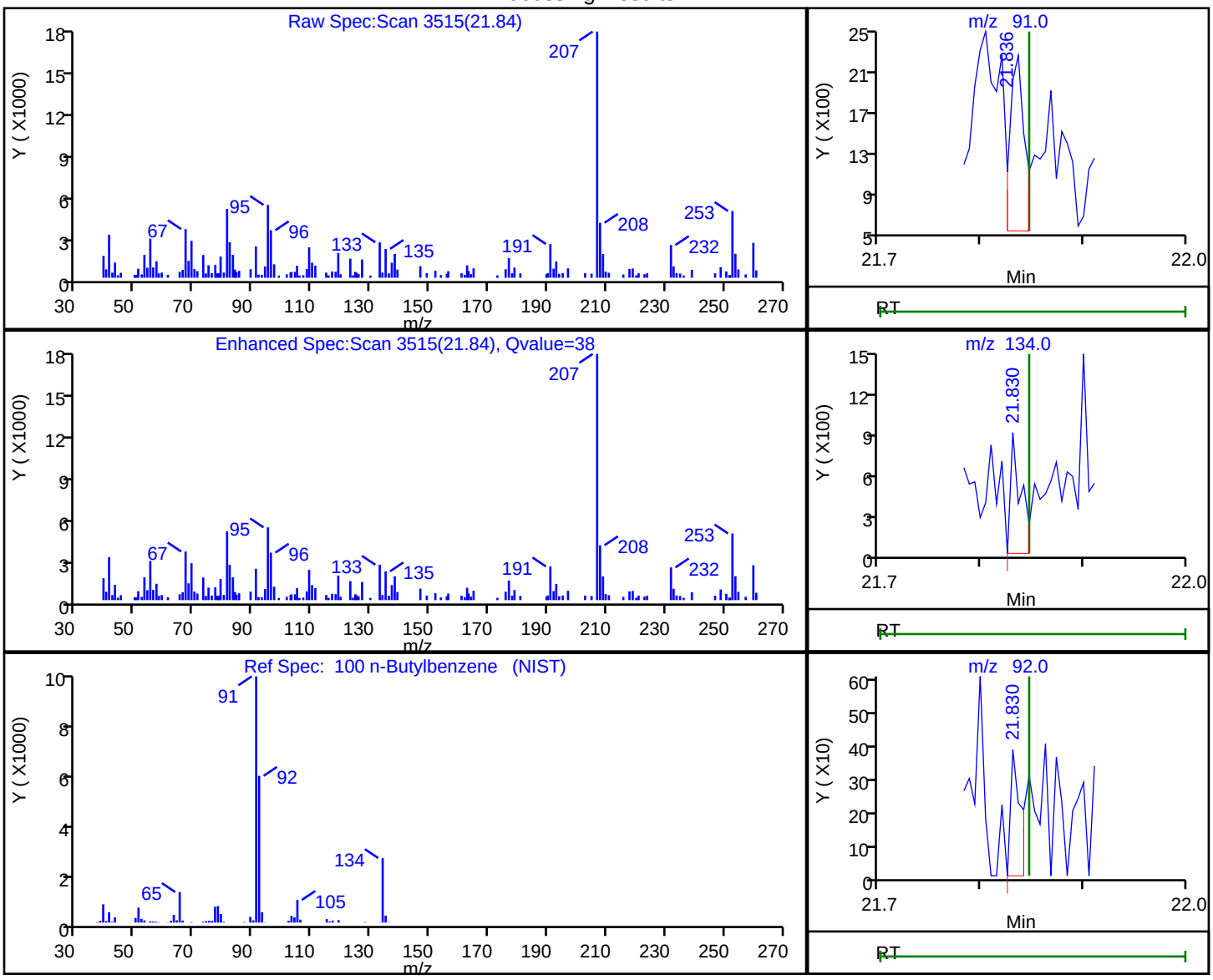
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.84 | 91.00 | 1650 | 0.008158 |
| 21.83 | 134.00 | 632 | |
| 21.83 | 92.00 | 259 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

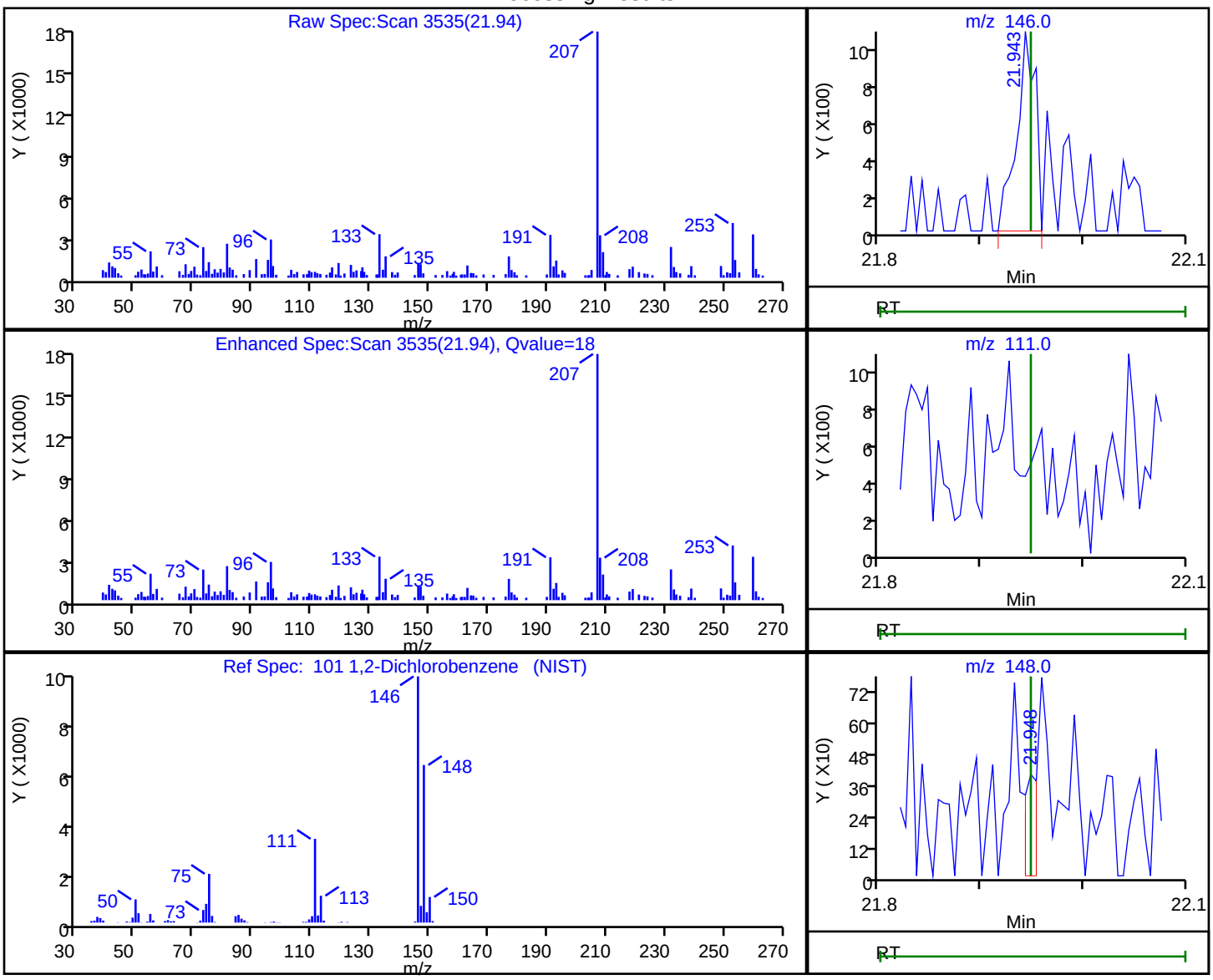
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.94 | 146.00 | 1306 | 0.009523 |
| 21.95 | 111.00 | 0 | |
| 21.95 | 148.00 | 343 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

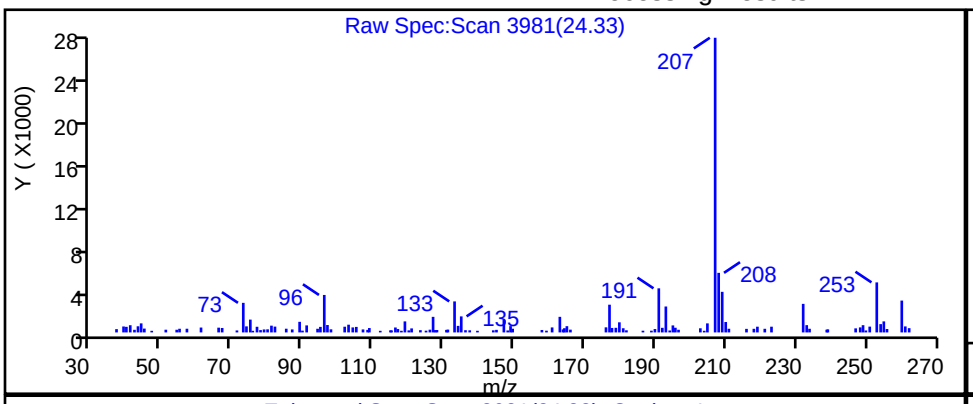
User Disabled Compound Report

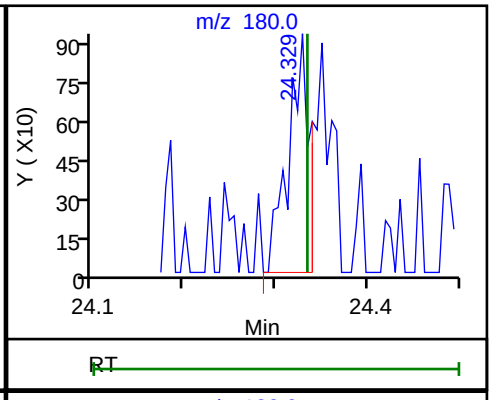
TestAmerica Burlington

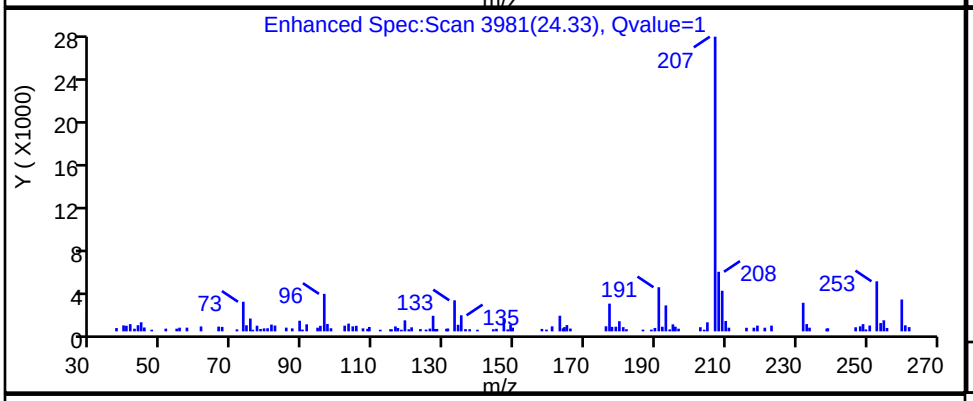
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

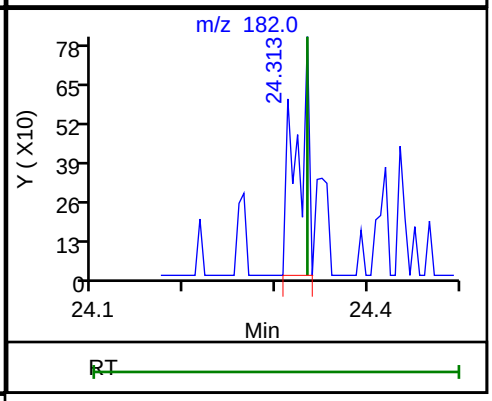
## 103 1,2,4-Trichlorobenzene, CAS: 120-82-1

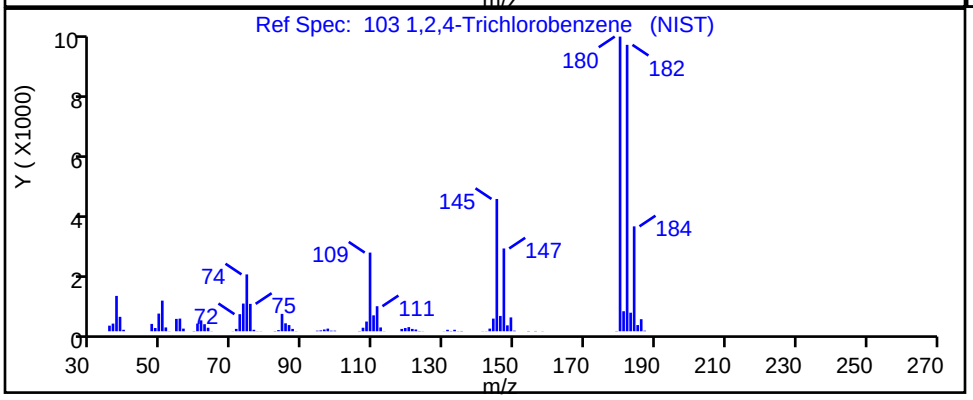
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.33 | 180.00 | 1468 | 0.014242 |
| 24.31 | 182.00 | 768 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

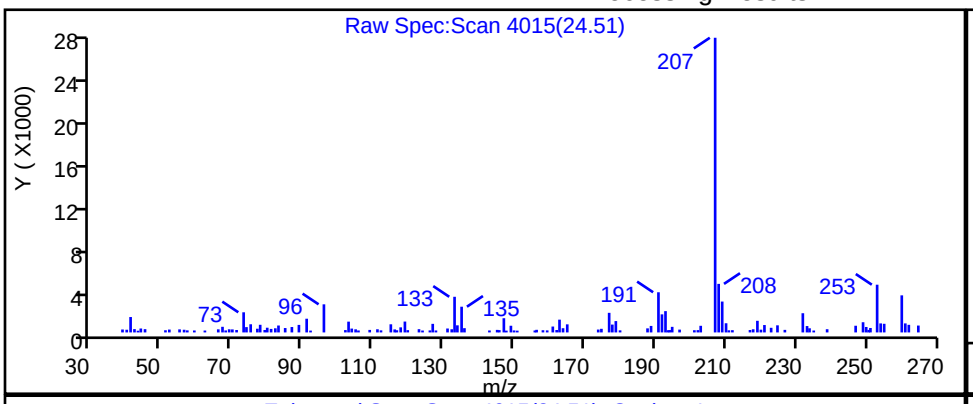
User Disabled Compound Report

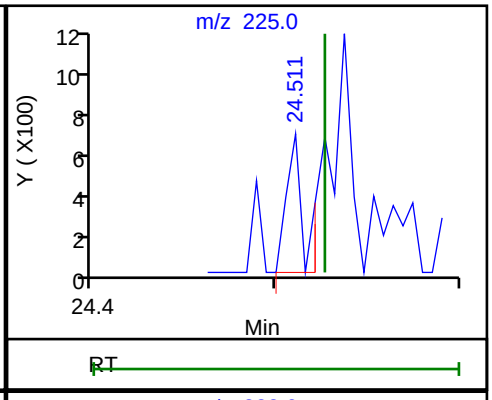
TestAmerica Burlington

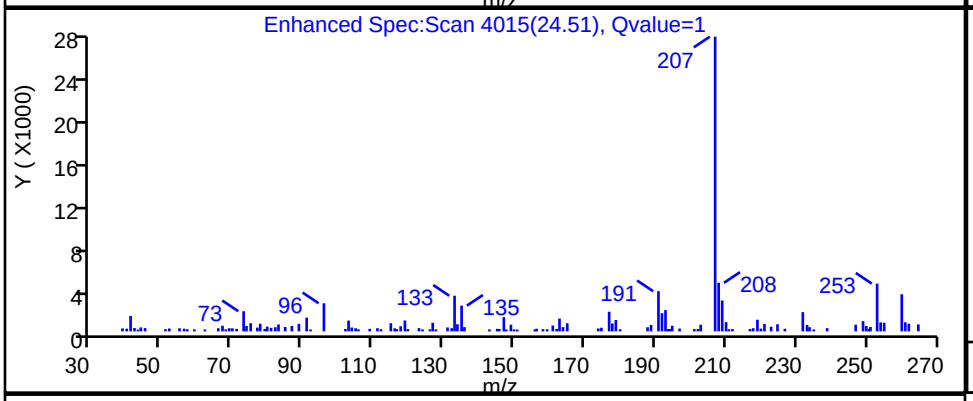
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

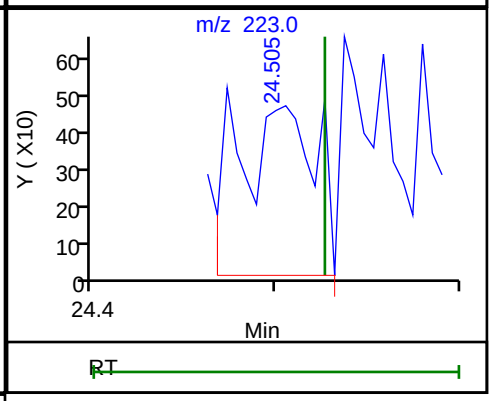
## 104 Hexachlorobutadiene, CAS: 87-68-3

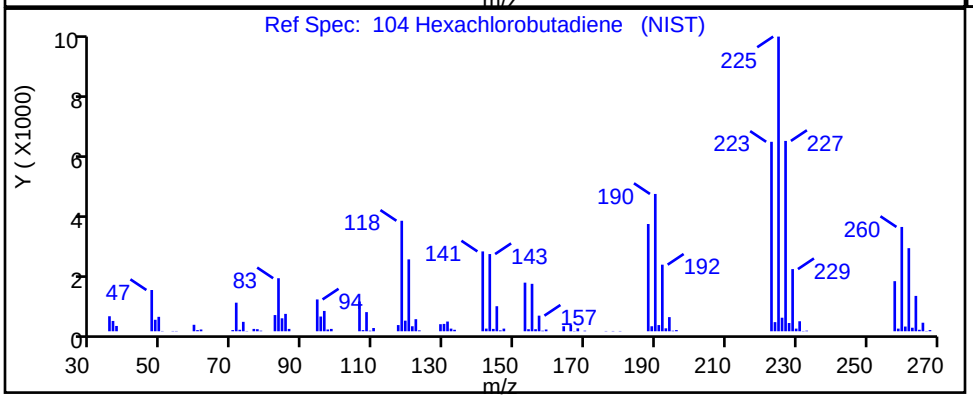
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.51 | 225.00 | 432 | 0.004213 |
| 24.51 | 223.00 | 1379 | |

Reviewer: puangmaleek, 07-Dec-2018 17:08:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

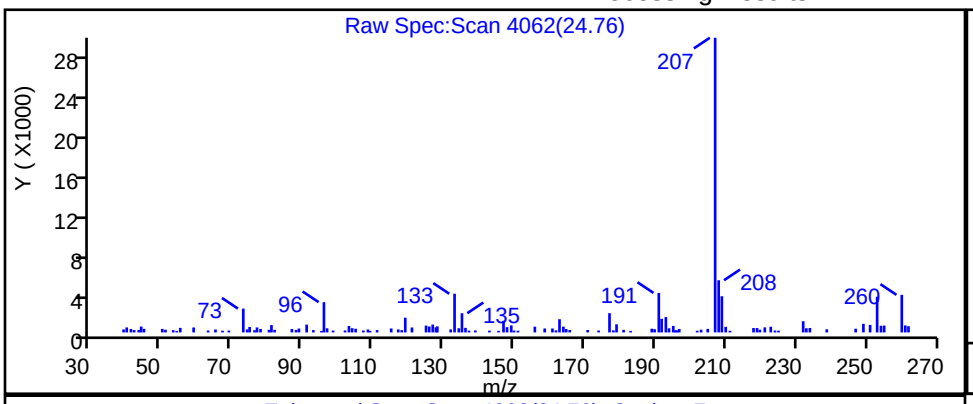
User Disabled Compound Report

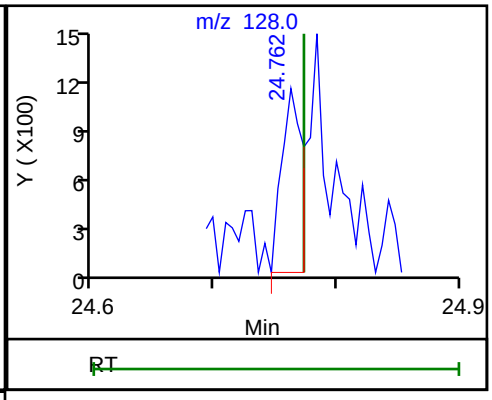
TestAmerica Burlington

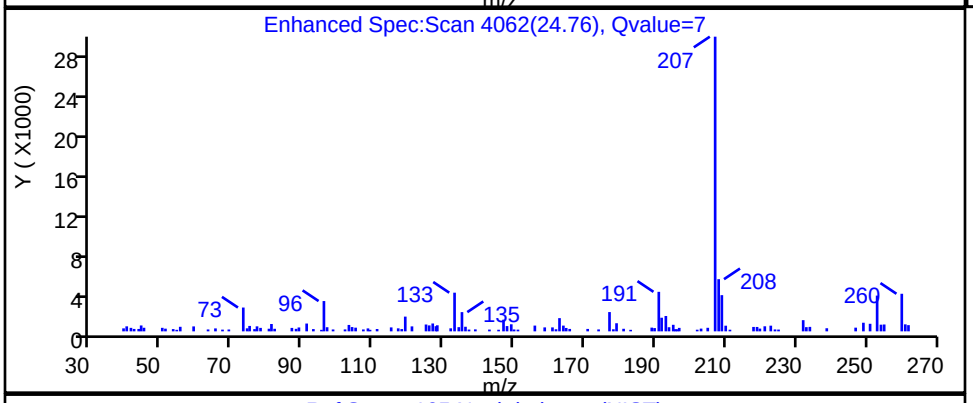
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D | | | | |
| Injection Date: | 07-Dec-2018 00:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-46353-A-11 | Lab Sample ID: | 200-46353-11 | | |
| Client ID: | MP-5_20181119 | | | | |
| Operator ID: | ert | ALS Bottle#: | 13 | Worklist Smp#: | 13 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

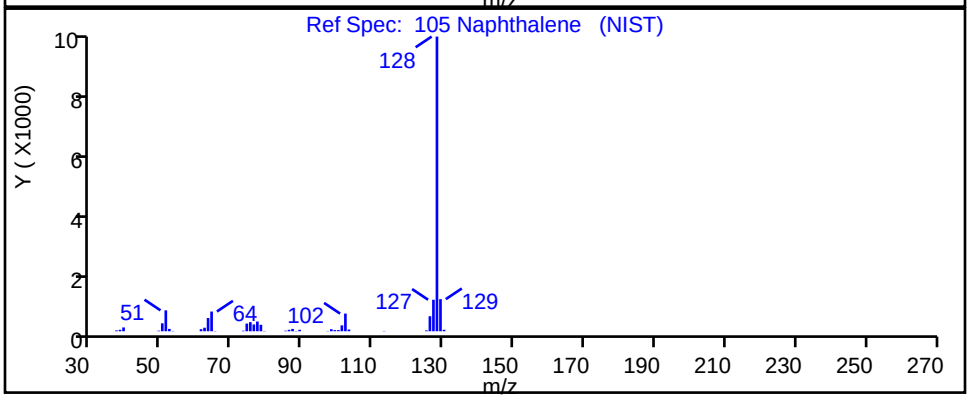
## 105 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.76 | 128.00 | 1324 | 0.006625 |

Reviewer: puangmaleek, 07-Dec-2018 17:08:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 200-137783/4 | 33516-04.D |
| Level 2 | IC 200-137783/5 | 33516-05.D |
| Level 3 | IC 200-137783/6 | 33516-06.D |
| Level 4 | IC 200-137783/7 | 33516-07.D |
| Level 5 | ICIS 200-137783/8 | 33516-08.D |
| Level 6 | IC 200-137783/18 | 33516-18.D |
| Level 7 | IC 200-137783/10 | 33516-10.D |
| Level 8 | IC 200-137783/11 | 33516-11.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Propylene | +++++ 0.3517 | +++++ 0.3717 | +++++ 0.4728 | 0.3922 | 0.4045 | Ave | | 0.3986 | | | | 11.6 | | 30.0 | | | |
| Dichlorodifluoromethane | +++++ 1.9233 | +++++ 1.9747 | 1.8840 2.1635 | 1.8747 | 1.9320 | Ave | | 1.9587 | | | | 5.4 | | 30.0 | | | |
| Chlorodifluoromethane | +++++ 0.9156 | +++++ 0.9291 | 0.9508 1.1585 | 0.9551 | 1.0145 | Ave | | 0.9872 | | | | 9.2 | | 30.0 | | | |
| 1,2-Dichlorotetrafluoroethane | +++++ 1.5039 | 1.4235 1.5589 | 1.4257 1.7676 | 1.4944 | 1.5592 | Ave | | 1.5333 | | | | 7.6 | | 30.0 | | | |
| Chloromethane | +++++ 0.3501 | +++++ 0.3310 | 0.3666 0.4242 | 0.3767 | 0.3714 | Ave | | 0.3700 | | | | 8.5 | | 30.0 | | | |
| n-Butane | +++++ 0.5031 | +++++ 0.5042 | 0.5472 0.6681 | 0.5460 | 0.5462 | Ave | | 0.5525 | | | | 10.9 | | 30.0 | | | |
| Vinyl chloride | 0.5422 0.4022 | 0.3921 0.3924 | 0.3730 0.4961 | 0.3988 | 0.4008 | Ave | | 0.4247 | | | | 14.2 | | 30.0 | | | |
| 1,3-Butadiene | 0.3235 0.2669 | 0.2435 0.2698 | 0.2749 0.3351 | 0.2676 | 0.2796 | Ave | | 0.2826 | | | | 10.9 | | 30.0 | | | |
| Bromomethane | +++++ 0.3837 | 0.3714 0.3820 | 0.3827 0.4156 | 0.3638 | 0.3731 | Ave | | 0.3818 | | | | 4.4 | | 30.0 | | | |
| Chloroethane | +++++ 0.1605 | +++++ 0.1557 | 0.1591 0.1801 | 0.1578 | 0.1626 | Ave | | 0.1626 | | | | 5.5 | | 30.0 | | | |
| Isopentane | +++++ 0.3049 | 0.3284 0.2916 | 0.3267 0.3603 | 0.3158 | 0.3231 | Ave | | 0.3215 | | | | 6.7 | | 30.0 | | | |
| Bromoethene(Vinyl Bromide) | +++++ 0.4845 | 0.4081 0.4751 | 0.4480 0.4919 | 0.4680 | 0.4670 | Ave | | 0.4632 | | | | 6.1 | | 30.0 | | | |
| Trichlorofluoromethane | +++++ 1.8172 | 1.6981 1.8231 | 1.8268 1.8826 | 1.8122 | 1.7913 | Ave | | 1.8073 | | | | 3.1 | | 30.0 | | | |
| n-Pentane | +++++ 0.6015 | +++++ 0.5761 | 0.7087 0.7013 | 0.6714 | 0.6643 | Ave | | 0.6539 | | | | 8.2 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethanol | +++++<br>0.1249 | +++++<br>0.1226 | 0.1955<br>0.1402 | 0.1434 | 0.1835 | Ave | | 0.1517 | | | | 20.2 | | 30.0 | | | |
| Ethyl ether | +++++<br>0.2808 | 0.2517<br>0.2753 | 0.2929<br>0.3130 | 0.3034 | 0.2921 | Ave | | 0.2870 | | | | 7.0 | | 30.0 | | | |
| Acrolein | +++++<br>0.1354 | +++++<br>0.1367 | +++++<br>0.1344 | 0.1287 | 0.1289 | Ave | | 0.1328 | | | | 2.8 | | 30.0 | | | |
| 1,1,2-Trichlorotrifluoroethane | +++++<br>1.2102 | 1.1308<br>1.2178 | 1.0800<br>1.2357 | 1.1901 | 1.1869 | Ave | | 1.1788 | | | | 4.6 | | 30.0 | | | |
| 1,1-Dichloroethene | 0.4224<br>0.4834 | 0.4705<br>0.4916 | 0.4827<br>0.5074 | 0.4850 | 0.4769 | Ave | | 0.4775 | | | | 5.2 | | 30.0 | | | |
| Acetone | +++++<br>0.6971 | +++++<br>0.7053 | +++++<br>0.8909 | 0.8438 | 0.8340 | Ave | | 0.7942 | | | | 11.0 | | 30.0 | | | |
| Carbon disulfide | +++++<br>1.2762 | +++++<br>1.2912 | 1.2578<br>1.4369 | 1.3235 | 1.3201 | Ave | | 1.3176 | | | | 4.8 | | 30.0 | | | |
| Isopropyl alcohol | +++++<br>0.6308 | +++++<br>0.6180 | +++++<br>0.7485 | 0.7389 | 0.7566 | Ave | | 0.6986 | | | | 9.8 | | 30.0 | | | |
| 3-Chloropropene | +++++<br>0.4794 | 0.4984<br>0.4625 | 0.4992<br>0.5451 | 0.4049 | 0.4075 | Ave | | 0.4710 | | | | 10.8 | | 30.0 | | | |
| Acetonitrile | +++++<br>0.2226 | +++++<br>0.2160 | +++++<br>0.2853 | 0.2691 | 0.2400 | Ave | | 0.2466 | | | | 12.1 | | 30.0 | | | |
| Methylene Chloride | +++++<br>0.4909 | +++++<br>0.4694 | 0.5926<br>0.6036 | 0.5620 | 0.5399 | Ave | | 0.5431 | | | | 10.0 | | 30.0 | | | |
| tert-Butyl alcohol | 0.7879<br>1.0450 | +++++<br>1.0190 | +++++<br>1.2041 | 1.1438 | 1.1337 | Ave | | 1.0556 | | | | 14.0 | | 30.0 | | | |
| Methyl tert-butyl ether | +++++<br>1.5654 | 1.4935<br>1.5192 | 1.5489<br>1.7286 | 1.5911 | 1.5441 | Ave | | 1.5701 | | | | 4.9 | | 30.0 | | | |
| trans-1,2-Dichloroethene | +++++<br>0.7124 | 0.4266<br>0.6838 | 0.7759<br>0.8410 | 0.7713 | 0.7514 | Ave | | 0.7089 | | | | 18.9 | | 30.0 | | | |
| Acrylonitrile | +++++<br>0.2571 | +++++<br>0.2441 | 0.2241<br>0.3084 | 0.2811 | 0.2719 | Ave | | 0.2644 | | | | 11.2 | | 30.0 | | | |
| n-Hexane | +++++<br>0.5970 | 0.5993<br>0.5588 | 0.6518<br>0.6866 | 0.6327 | 0.6158 | Ave | | 0.6203 | | | | 6.7 | | 30.0 | | | |
| 1,1-Dichloroethane | 1.0163<br>0.8644 | 0.9169<br>0.8166 | 0.9120<br>0.9903 | 0.9359 | 0.8888 | Ave | | 0.9177 | | | | 7.0 | | 30.0 | | | |
| Vinyl acetate | +++++<br>1.0086 | +++++<br>0.9663 | +++++<br>1.2702 | 1.1770 | 1.1318 | Ave | | 1.1108 | | | | 11.2 | | 30.0 | | | |
| cis-1,2-Dichloroethene | 0.4996<br>0.5528 | 0.5342<br>0.5338 | 0.5729<br>0.5653 | 0.5600 | 0.5543 | Ave | | 0.5466 | | | | 4.3 | | 30.0 | | | |
| Methyl Ethyl Ketone (2-Butanone) | +++++<br>0.2317 | +++++<br>0.2232 | 0.1997<br>0.2476 | 0.2378 | 0.2415 | Ave | | 0.2302 | | | | 7.4 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethyl acetate | +++++<br>0.0434 | +++++<br>0.0444 | +++++<br>0.0453 | 0.0435 | 0.0436 | Ave | | 0.0440 | | | | 1.8 | | 30.0 | | | |
| Tetrahydrofuran | +++++<br>0.0681 | +++++<br>0.0712 | +++++<br>0.0853 | 0.0880 | 0.0801 | Ave | | 0.0785 | | | | 11.0 | | 30.0 | | | |
| Chloroform | +++++<br>1.3741 | 1.3275<br>1.3530 | 0.7276<br>1.4913 | 1.4910 | 1.4283 | Ave | | 1.3132 | | | | 20.3 | | 30.0 | | | |
| Cyclohexane | +++++<br>0.1216 | 0.1263<br>0.1290 | 0.1267<br>0.1287 | 0.1299 | 0.1234 | Ave | | 0.1265 | | | | 2.4 | | 30.0 | | | |
| 1,1,1-Trichloroethane | +++++<br>0.2867 | 0.2922<br>0.3166 | 0.3131<br>0.3120 | 0.3081 | 0.2975 | Ave | | 0.3037 | | | | 3.8 | | 30.0 | | | |
| Carbon tetrachloride | 0.3205<br>0.3204 | 0.3126<br>0.3561 | 0.3084<br>0.3458 | 0.3333 | 0.3259 | Ave | | 0.3279 | | | | 5.0 | | 30.0 | | | |
| Benzene | +++++<br>0.2920 | 0.3360<br>0.2997 | 0.3254<br>0.3127 | 0.3268 | 0.3062 | Ave | | 0.3141 | | | | 5.1 | | 30.0 | | | |
| 2,2,4-Trimethylpentane | 0.4680<br>0.4005 | 0.4282<br>0.4037 | 0.4687<br>0.4589 | 0.4756 | 0.4463 | Ave | | 0.4437 | | | | 6.7 | | 30.0 | | | |
| 1,2-Dichloroethane | +++++<br>0.1845 | 0.1852<br>0.1952 | 0.2120<br>0.2231 | 0.2153 | 0.2072 | Ave | | 0.2032 | | | | 7.4 | | 30.0 | | | |
| n-Heptane | +++++<br>0.1387 | 0.1671<br>0.1389 | 0.1713<br>0.1667 | 0.1772 | 0.1659 | Ave | | 0.1609 | | | | 9.7 | | 30.0 | | | |
| n-Butanol | +++++<br>0.0561 | +++++<br>0.0468 | +++++<br>0.0648 | 0.0719 | 0.0676 | Ave | | 0.0614 | | | | 16.3 | | 30.0 | | | |
| Trichloroethene | 0.1232<br>0.1769 | 0.1696<br>0.1580 | 0.1911<br>0.1840 | 0.1913 | 0.1830 | Ave | | 0.1721 | | | | 13.2 | | 30.0 | | | |
| 1,2-Dichloropropane | +++++<br>0.1160 | 0.1184<br>0.0928 | 0.1329<br>0.1279 | 0.1388 | 0.1276 | Ave | | 0.1221 | | | | 12.4 | | 30.0 | | | |
| Methyl methacrylate | +++++<br>0.1233 | +++++<br>0.1058 | 0.1251<br>0.1351 | 0.1378 | 0.1328 | Ave | | 0.1267 | | | | 9.2 | | 30.0 | | | |
| 1,4-Dioxane | +++++<br>0.0737 | +++++<br>0.0622 | +++++<br>0.0709 | 0.0913 | 0.0853 | Ave | | 0.0767 | | | | 15.1 | | 30.0 | | | |
| Dibromomethane | +++++<br>0.1948 | 0.1837<br>0.1803 | 0.2078<br>0.1858 | 0.2076 | 0.1984 | Ave | | 0.1941 | | | | 5.8 | | 30.0 | | | |
| Bromodichloromethane | +++++<br>0.3189 | 0.3101<br>0.2900 | 0.3219<br>0.3554 | 0.3534 | 0.3393 | Ave | | 0.3270 | | | | 7.3 | | 30.0 | | | |
| cis-1,3-Dichloropropene | +++++<br>0.2312 | 0.2355<br>0.1925 | 0.2488<br>0.2515 | 0.2627 | 0.2470 | Ave | | 0.2385 | | | | 9.5 | | 30.0 | | | |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | +++++<br>0.2280 | +++++<br>0.1796 | 0.2737<br>0.2788 | 0.3086 | 0.2789 | Ave | | 0.2579 | | | | 18.0 | | 30.0 | | | |
| Toluene | +++++<br>0.2695 | 0.2730<br>0.2601 | 0.2829<br>0.2895 | 0.2796 | 0.2683 | Ave | | 0.2747 | | | | 3.6 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| n-Octane | +++++<br>0.2224 | 0.2635<br>0.1694 | 0.2948<br>0.2554 | 0.3005 | 0.2734 | Ave | | 0.2542 | | | | 17.9 | | 30.0 | | | |
| trans-1,3-Dichloropropene | +++++<br>0.2341 | 0.2657<br>0.2018 | 0.2474<br>0.2587 | 0.2597 | 0.2476 | Ave | | 0.2450 | | | | 8.9 | | 30.0 | | | |
| 1,1,2-Trichloroethane | +++++<br>0.1267 | 0.1253<br>0.1187 | 0.1401<br>0.1471 | 0.1400 | 0.1329 | Ave | | 0.1329 | | | | 7.5 | | 30.0 | | | |
| Tetrachloroethene | 0.3005<br>0.2805 | 0.2646<br>0.2892 | 0.2692<br>0.2779 | 0.2716 | 0.2661 | Ave | | 0.2774 | | | | 4.5 | | 30.0 | | | |
| Methyl Butyl Ketone (2-Hexanone) | +++++<br>0.2172 | +++++<br>0.2006 | 0.2749<br>0.2655 | 0.2782 | 0.2617 | Ave | | 0.2497 | | | | 13.1 | | 30.0 | | | |
| Dibromochloromethane | +++++<br>0.3448 | 0.2612<br>0.3626 | 0.2328<br>0.3562 | 0.3278 | 0.3326 | Ave | | 0.3169 | | | | 15.8 | | 30.0 | | | |
| 1,2-Dibromoethane | +++++<br>0.2684 | 0.2370<br>0.2681 | 0.2554<br>0.2832 | 0.2735 | 0.2702 | Ave | | 0.2651 | | | | 5.6 | | 30.0 | | | |
| Chlorobenzene | +++++<br>0.3829 | 0.3826<br>0.3766 | 0.3947<br>0.3769 | 0.3899 | 0.3752 | Ave | | 0.3827 | | | | 1.9 | | 30.0 | | | |
| Ethylbenzene | +++++<br>0.6347 | 0.6050<br>0.6232 | 0.6653<br>0.6499 | 0.6611 | 0.6411 | Ave | | 0.6400 | | | | 3.3 | | 30.0 | | | |
| n-Nonane | +++++<br>0.2328 | 0.2627<br>0.2131 | 0.2912<br>0.2538 | 0.2867 | 0.2662 | Ave | | 0.2581 | | | | 10.8 | | 30.0 | | | |
| m,p-Xylene | +++++<br>0.2355 | 0.2212<br>0.2353 | 0.2492<br>0.2250 | 0.2465 | 0.2350 | Ave | | 0.2354 | | | | 4.3 | | 30.0 | | | |
| o-Xylene | +++++<br>0.2293 | 0.2289<br>0.2313 | 0.2330<br>0.2260 | 0.2381 | 0.2266 | Ave | | 0.2305 | | | | 1.8 | | 30.0 | | | |
| Styrene | +++++<br>0.3777 | 0.2829<br>0.3834 | 0.3161<br>0.3784 | 0.3821 | 0.3699 | Ave | | 0.3558 | | | | 11.2 | | 30.0 | | | |
| Bromoform | +++++<br>0.3632 | 0.1911<br>0.3904 | 0.0979<br>0.3391 | 0.3145 | 0.3138 | Ave | | 0.2871 | | | | 36.4 | * | 30.0 | | | |
| Cumene | +++++<br>0.7434 | 0.6676<br>0.7664 | 0.7346<br>0.7515 | 0.7610 | 0.7243 | Ave | | 0.7356 | | | | 4.5 | | 30.0 | | | |
| 1,1,2,2-Tetrachloroethane | +++++<br>0.3197 | 0.3316<br>0.3084 | 0.3693<br>0.3526 | 0.3676 | 0.3387 | Ave | | 0.3411 | | | | 6.8 | | 30.0 | | | |
| n-Propylbenzene | +++++<br>0.8435 | 0.8403<br>0.8482 | 0.8871<br>0.8695 | 0.8984 | 0.8437 | Ave | | 0.8615 | | | | 2.7 | | 30.0 | | | |
| 1,2,3-Trichloropropane | +++++<br>0.2750 | +++++<br>0.2746 | 0.3047<br>0.3023 | 0.3194 | 0.2940 | Ave | | 0.2950 | | | | 6.0 | | 30.0 | | | |
| 4-Ethyltoluene | +++++<br>0.7151 | 0.6886<br>0.7387 | 0.7504<br>0.6875 | 0.7484 | 0.7054 | Ave | | 0.7192 | | | | 3.7 | | 30.0 | | | |
| 2-Chlorotoluene | +++++<br>0.5963 | 0.6129<br>0.6232 | 0.6658<br>0.6076 | 0.6551 | 0.6095 | Ave | | 0.6244 | | | | 4.2 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| n-Decane | +++++ 0.2887 | +++++ 0.2764 | 0.3606 0.3127 | 0.3688 | 0.3321 | Ave | | 0.3232 | | | | 11.6 | | 30.0 | | | |
| 1,3,5-Trimethylbenzene | +++++ 0.6537 | 0.5920 0.6830 | 0.6587 0.6636 | 0.6583 | 0.6296 | Ave | | 0.6484 | | | | 4.5 | | 30.0 | | | |
| Alpha Methyl Styrene | +++++ 0.3217 | 0.2262 0.3373 | 0.2533 0.3140 | 0.3097 | 0.3044 | Ave | | 0.2952 | | | | 13.6 | | 30.0 | | | |
| tert-Butylbenzene | +++++ 0.6242 | 0.5776 0.6618 | 0.6248 0.6059 | 0.6286 | 0.5957 | Ave | | 0.6169 | | | | 4.4 | | 30.0 | | | |
| 1,2,4-Trimethylbenzene | +++++ 0.6519 | 0.5979 0.6943 | 0.6545 0.6571 | 0.6622 | 0.6317 | Ave | | 0.6499 | | | | 4.5 | | 30.0 | | | |
| sec-Butylbenzene | +++++ 0.9041 | 0.8140 0.9465 | 0.9269 0.9101 | 0.8743 | 0.8874 | Ave | | 0.8947 | | | | 4.8 | | 30.0 | | | |
| 4-Isopropyltoluene | +++++ 0.8188 | 0.7295 0.8638 | 0.8170 0.7633 | 0.7609 | 0.7417 | Ave | | 0.7850 | | | | 6.2 | | 30.0 | | | |
| 1,3-Dichlorobenzene | +++++ 0.4576 | 0.4188 0.4832 | 0.4692 0.4133 | 0.4274 | 0.4073 | Ave | | 0.4395 | | | | 6.8 | | 30.0 | | | |
| 1,4-Dichlorobenzene | +++++ 0.4705 | 0.4012 0.5038 | 0.4798 0.4346 | 0.4180 | 0.4143 | Ave | | 0.4460 | | | | 8.7 | | 30.0 | | | |
| Benzyl chloride | +++++ 0.6333 | 0.5568 0.6677 | 0.6403 0.6566 | 0.5600 | 0.5557 | Ave | | 0.6101 | | | | 8.3 | | 30.0 | | | |
| n-Butylbenzene | +++++ 0.7228 | 0.6585 0.7532 | 0.7785 0.7297 | 0.6956 | 0.6769 | Ave | | 0.7164 | | | | 5.9 | | 30.0 | | | |
| n-Undecane | +++++ 0.3302 | +++++ 0.3217 | +++++ 0.3692 | 0.3704 | 0.3472 | Ave | | 0.3478 | | | | 6.4 | | 30.0 | | | |
| 1,2-Dichlorobenzene | +++++ 0.4481 | 0.3971 0.4797 | 0.4571 0.4150 | 0.4026 | 0.3906 | Ave | | 0.4272 | | | | 8.0 | | 30.0 | | | |
| n-Dodecane | +++++ 0.3119 | +++++ 0.3292 | +++++ 0.3880 | 0.3451 | 0.3004 | Ave | | 0.3349 | | | | 10.2 | | 30.0 | | | |
| 1,2,4-Trichlorobenzene | +++++ 0.3929 | +++++ 0.4468 | 0.4553 0.3751 | 0.3313 | 0.3054 | Ave | | 0.3845 | | | | 15.7 | | 30.0 | | | |
| Hexachlorobutadiene | +++++ 0.3729 | 0.3154 0.4384 | 0.3870 0.3396 | 0.3496 | 0.3159 | Ave | | 0.3598 | | | | 12.2 | | 30.0 | | | |
| Naphthalene | +++++ 0.7538 | +++++ 0.8863 | 0.9425 0.7794 | 0.6221 | 0.5682 | Ave | | 0.7587 | | | | 19.1 | | 30.0 | | | |
| 1,2,3-Trichlorobenzene | +++++ 0.3629 | +++++ 0.4295 | 0.4197 0.3497 | 0.3010 | 0.2777 | Ave | | 0.3568 | | | | 17.1 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 200-137783/4 | 33516-04.D |
| Level 2 | IC 200-137783/5 | 33516-05.D |
| Level 3 | IC 200-137783/6 | 33516-06.D |
| Level 4 | IC 200-137783/7 | 33516-07.D |
| Level 5 | ICIS 200-137783/8 | 33516-08.D |
| Level 6 | IC 200-137783/18 | 33516-18.D |
| Level 7 | IC 200-137783/10 | 33516-10.D |
| Level 8 | IC 200-137783/11 | 33516-11.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 |
| Propylene | BCM | Ave | +++++ 135773 | +++++ 183661 | +++++ 338523 | 40120 | 78132 | +++++ 15.0 | +++++ 20.0 | +++++ 40.0 | 4.99 | 10.00 |
| Dichlorodifluoromethane | BCM | Ave | +++++ 742431 | +++++ 975812 | 19180 1548930 | 191784 | 373195 | +++++ 15.0 | +++++ 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Chlorodifluoromethane | BCM | Ave | +++++ 353414 | +++++ 459099 | 9680 829410 | 97707 | 195954 | +++++ 15.0 | +++++ 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| 1,2-Dichlorotetrafluoroethane | BCM | Ave | +++++ 580527 | 5769 770362 | 14514 1265554 | 152873 | 301184 | +++++ 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Chloromethane | BCM | Ave | +++++ 135157 | +++++ 163554 | 3732 303685 | 38535 | 71740 | +++++ 15.0 | +++++ 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| n-Butane | BCM | Ave | +++++ 194189 | +++++ 249145 | 5571 478309 | 55852 | 105508 | +++++ 15.0 | +++++ 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Vinyl chloride | BCM | Ave | 724 155251 | 1589 193907 | 3797 355193 | 40792 | 77427 | 0.0351 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| 1,3-Butadiene | BCM | Ave | 432 103014 | 987 133309 | 2799 239908 | 27371 | 54013 | 0.0351 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Bromomethane | BCM | Ave | +++++ 148131 | 1505 188784 | 3896 297544 | 37213 | 72072 | +++++ 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Chloroethane | BCM | Ave | +++++ 61945 | +++++ 76930 | 1620 128975 | 16140 | 31405 | +++++ 15.0 | +++++ 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Isopentane | BCM | Ave | +++++ 117676 | 1331 144111 | 3326 257961 | 32303 | 62402 | +++++ 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Bromoethene(Vinyl Bromide) | BCM | Ave | +++++ 187028 | 1654 234754 | 4561 352157 | 47876 | 90209 | +++++ 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Trichlorofluoromethane | BCM | Ave | +++++ 701445 | 6882 900920 | 18598 1347843 | 185385 | 346021 | +++++ 15.0 | 0.200 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| n-Pentane | BCM | Ave | +++++ 232201 | +++++ 284678 | 7215 502063 | 68680 | 128322 | +++++ 15.0 | +++++ 20.0 | 0.500 40.0 | 4.99 | 10.00 |
| Ethanol | BCM | Ave | +++++ 96408 | +++++ 121206 | 19923 251010 | 29368 | 53196 | +++++ 30.0 | +++++ 40.0 | 5.01 100.0 | 9.99 | 15.0 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Ethyl ether | BCM | Ave | +++++<br>108406 | 1020<br>136037 | 2982<br>224061 | 31042 | 56421 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acrolein | BCM | Ave | +++++<br>52251 | +++++<br>67540 | +++++<br>96223 | 13168 | 24894 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 1,1,2-Trichlorotrifluoroethane | BCM | Ave | +++++<br>467170 | 4583<br>601805 | 10995<br>884673 | 121750 | 229274 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1-Dichloroethene | BCM | Ave | 564<br>186607 | 1907<br>242947 | 4914<br>363259 | 49619 | 92119 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acetone | BCM | Ave | +++++<br>269071 | +++++<br>348523 | +++++<br>637834 | 86319 | 161089 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Carbon disulfide | BCM | Ave | +++++<br>492645 | +++++<br>638037 | 12805<br>1028723 | 135390 | 254997 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Isopropyl alcohol | BCM | Ave | +++++<br>243497 | +++++<br>305384 | +++++<br>535918 | 75584 | 146155 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 3-Chloropropene | BCM | Ave | +++++<br>185045 | 2020<br>228544 | 5082<br>390281 | 41421 | 78710 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acetonitrile | BCM | Ave | +++++<br>85917 | +++++<br>106720 | +++++<br>204287 | 27525 | 46361 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Methylene Chloride | BCM | Ave | +++++<br>189492 | +++++<br>231953 | 6033<br>432121 | 57491 | 104286 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| tert-Butyl alcohol | BCM | Ave | 1052<br>403367 | +++++<br>503562 | +++++<br>862047 | 117012 | 218985 | 0.0351<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Methyl tert-butyl ether | BCM | Ave | +++++<br>604271 | 6053<br>750747 | 15769<br>1237573 | 162770 | 298270 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| trans-1,2-Dichloroethene | BCM | Ave | +++++<br>275012 | 1729<br>337899 | 7899<br>602086 | 78901 | 145140 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acrylonitrile | BCM | Ave | +++++<br>99257 | +++++<br>120632 | 2281<br>220822 | 28753 | 52515 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Hexane | BCM | Ave | +++++<br>230443 | 2429<br>276144 | 6636<br>491598 | 64726 | 118957 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1-Dichloroethane | BCM | Ave | 1357<br>333661 | 3716<br>403537 | 9285<br>709019 | 95739 | 171683 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Vinyl acetate | BCM | Ave | +++++<br>389315 | +++++<br>477522 | +++++<br>909438 | 120405 | 218622 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| cis-1,2-Dichloroethene | BCM | Ave | 667<br>213392 | 2165<br>263775 | 5832<br>404741 | 57285 | 107073 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl Ethyl Ketone (2-Butanone) | BCM | Ave | +++++<br>89425 | +++++<br>110295 | 2033<br>177285 | 24326 | 46650 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethyl acetate | BCM | Ave | +++++<br>16754 | +++++<br>21953 | +++++<br>32414 | 4448 | 8414 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Tetrahydrofuran | DFBZ | Ave | +++++<br>155299 | +++++<br>188156 | +++++<br>342749 | 51511 | 88731 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Chloroform | BCM | Ave | +++++<br>530415 | 5380<br>668594 | 7407<br>1067701 | 152527 | 275892 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Cyclohexane | DFBZ | Ave | +++++<br>277247 | 2888<br>340758 | 7349<br>517454 | 76045 | 136701 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,1-Trichloroethane | DFBZ | Ave | +++++<br>653795 | 6680<br>836640 | 18158<br>1253876 | 180304 | 329581 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Carbon tetrachloride | DFBZ | Ave | 2411<br>730608 | 7146<br>940985 | 17882<br>1389719 | 195076 | 361014 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Benzene | DFBZ | Ave | +++++<br>666007 | 7681<br>791829 | 18867<br>1257023 | 191262 | 339283 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 2,2,4-Trimethylpentane | DFBZ | Ave | 3521<br>913248 | 9788<br>1066847 | 27180<br>1844481 | 278322 | 494490 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichloroethane | DFBZ | Ave | +++++<br>420858 | 4234<br>515881 | 12291<br>896698 | 126026 | 229565 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Heptane | DFBZ | Ave | +++++<br>316237 | 3821<br>367160 | 9935<br>670147 | 103703 | 183833 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butanol | DFBZ | Ave | +++++<br>127843 | +++++<br>123565 | +++++<br>260420 | 42071 | 74864 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Trichloroethene | DFBZ | Ave | 927<br>403455 | 3877<br>417376 | 11081<br>739449 | 111956 | 202790 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichloropropane | DFBZ | Ave | +++++<br>264609 | 2707<br>245294 | 7707<br>514142 | 81207 | 141370 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl methacrylate | DFBZ | Ave | +++++<br>281284 | +++++<br>279467 | 7256<br>543057 | 80624 | 147127 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,4-Dioxane | DFBZ | Ave | +++++<br>168068 | +++++<br>164480 | +++++<br>285135 | 53417 | 94467 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Dibromomethane | DFBZ | Ave | +++++<br>444345 | 4199<br>476369 | 12049<br>746998 | 121482 | 219780 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromodichloromethane | DFBZ | Ave | +++++<br>727333 | 7090<br>766328 | 18665<br>1428428 | 206792 | 375962 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| cis-1,3-Dichloropropene | DFBZ | Ave | +++++<br>527316 | 5384<br>508664 | 14426<br>1010979 | 153729 | 273703 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | DFBZ | Ave | +++++<br>519855 | +++++<br>474528 | 15874<br>1120439 | 180615 | 309044 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Toluene | CBNZ d5 | Ave | +++++<br>640559 | 6663<br>618088 | 17555<br>1115194 | 177957 | 316227 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Octane | DFBZ | Ave | +++++<br>507202 | 6024<br>447614 | 17096<br>1026410 | 175878 | 302866 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| trans-1,3-Dichloropropene | DFBZ | Ave | +++++<br>533981 | 6075<br>533152 | 14348<br>1039824 | 151993 | 274340 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,2-Trichloroethane | CBNZ d5 | Ave | +++++<br>301118 | 3058<br>281962 | 8690<br>566609 | 89080 | 156612 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Tetrachloroethene | CBNZ d5 | Ave | 2144<br>666530 | 6458<br>687003 | 16700<br>1070634 | 172870 | 313637 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl Butyl Ketone (2-Hexanone) | CBNZ d5 | Ave | +++++<br>516103 | +++++<br>476488 | 17056<br>1022749 | 177058 | 308503 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Dibromochloromethane | CBNZ d5 | Ave | +++++<br>819337 | 6376<br>861591 | 14443<br>1372441 | 208652 | 392091 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dibromoethane | CBNZ d5 | Ave | +++++<br>637924 | 5784<br>637056 | 15848<br>1091151 | 174074 | 318526 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chlorobenzene | CBNZ d5 | Ave | +++++<br>909948 | 9338<br>894731 | 24492<br>1452074 | 248172 | 442310 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethylbenzene | CBNZ d5 | Ave | +++++<br>1508352 | 14768<br>1480573 | 41281<br>2503713 | 420763 | 755751 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Nonane | CBNZ d5 | Ave | +++++<br>553372 | 6412<br>506409 | 18065<br>977867 | 182495 | 313778 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| m,p-Xylene | CBNZ d5 | Ave | +++++<br>1119257 | 10797<br>1118155 | 30923<br>1733725 | 313774 | 554082 | +++++<br>30.0 | 0.401<br>40.0 | 1.00<br>80.0 | 9.99 | 20.0 |
| o-Xylene | CBNZ d5 | Ave | +++++<br>545065 | 5588<br>549528 | 14456<br>870502 | 151539 | 267134 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Styrene | CBNZ d5 | Ave | +++++<br>897534 | 6906<br>910973 | 19615<br>1457895 | 243198 | 436090 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromoform | CBNZ d5 | Ave | +++++<br>863237 | 4664<br>927546 | 6073<br>1306364 | 200186 | 369932 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Cumene | CBNZ d5 | Ave | +++++<br>1766797 | 16296<br>1820859 | 45580<br>2895157 | 484356 | 853764 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,2,2-Tetrachloroethane | CBNZ d5 | Ave | +++++<br>759807 | 8093<br>732639 | 22913<br>1358266 | 233953 | 399283 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Propylbenzene | CBNZ d5 | Ave | +++++<br>2004570 | 20509<br>2015322 | 55041<br>3349697 | 571792 | 994548 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,3-Trichloropropane | CBNZ d5 | Ave | +++++<br>653603 | +++++<br>652377 | 18904<br>1164806 | 203261 | 346539 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Ethyltoluene | CBNZ d5 | Ave | +++++<br>1699378 | 16807<br>1755164 | 46560<br>2648660 | 476320 | 831544 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 2-Chlorotoluene | CBNZ d5 | Ave | +++++<br>1417247 | 14961<br>1480596 | 41307<br>2340683 | 416969 | 718532 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Decane | CBNZ d5 | Ave | +++++<br>686058 | +++++<br>656647 | 22371<br>1204762 | 234755 | 391427 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3,5-Trimethylbenzene | CBNZ d5 | Ave | +++++<br>1553601 | 14450<br>1622679 | 40868<br>2556603 | 418991 | 742159 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Alpha Methyl Styrene | CBNZ d5 | Ave | +++++<br>764541 | 5520<br>801321 | 15714<br>1209673 | 197131 | 358804 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| tert-Butylbenzene | CBNZ d5 | Ave | +++++<br>1483372 | 14099<br>1572453 | 38763<br>2334361 | 400063 | 702209 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2,4-Trimethylbenzene | CBNZ d5 | Ave | +++++<br>1549236 | 14593<br>1649622 | 40608<br>2531358 | 421470 | 744612 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| sec-Butylbenzene | CBNZ d5 | Ave | +++++<br>2148550 | 19868<br>2248832 | 57510<br>3506044 | 556435 | 1046102 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Isopropyltoluene | CBNZ d5 | Ave | +++++<br>1945934 | 17806<br>2052359 | 50688<br>2940752 | 484263 | 874281 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>1087563 | 10221<br>1148123 | 29110<br>1592079 | 272027 | 480093 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,4-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>1118219 | 9793<br>1197052 | 29770<br>1674467 | 266050 | 488365 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Benzyl chloride | CBNZ d5 | Ave | +++++<br>1504984 | 13591<br>1586450 | 39729<br>2529649 | 356417 | 655100 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butylbenzene | CBNZ d5 | Ave | +++++<br>1717680 | 16073<br>1789576 | 48300<br>2811172 | 442693 | 797934 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Undecane | CBNZ d5 | Ave | +++++<br>784842 | +++++<br>764357 | +++++<br>1422378 | 235754 | 409303 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>1064998 | 9692<br>1139661 | 28358<br>1598700 | 256240 | 460441 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Dodecane | CBNZ d5 | Ave | +++++<br>741258 | +++++<br>782239 | +++++<br>1494633 | 219615 | 354099 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 1,2,4-Trichlorobenzene | CBNZ d5 | Ave | +++++<br>933858 | +++++<br>1061588 | 28251<br>1445145 | 210832 | 359994 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Hexachlorobutadiene | CBNZ d5 | Ave | +++++<br>886193 | 7699<br>1041566 | 24014<br>1308418 | 222512 | 372421 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Naphthalene | CBNZ d5 | Ave | +++++<br>1791546 | +++++<br>2105636 | 58480<br>3002555 | 395916 | 669821 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,3-Trichlorobenzene | CBNZ d5 | Ave | +++++<br>862529 | +++++<br>1020377 | 26038<br>1347310 | 191599 | 327403 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Dec-2018 20:51:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-004
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:18 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:20:40

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.962 | 2.962 | 0.000 | 89 | 1024 | 0.0351 | 0.0675 | |
| 2 Dichlorodifluoromethane | 85 | 3.031 | 3.031 | 0.000 | 97 | 3170 | 0.0351 | 0.0425 | |
| 3 Chlorodifluoromethane | 51 | 3.079 | 3.080 | -0.001 | 97 | 1963 | 0.0351 | 0.0522 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.287 | 3.288 | -0.001 | 97 | 2260 | 0.0351 | 0.0387 | |
| 5 Chloromethane | 50 | 3.410 | 3.416 | -0.006 | 96 | 884 | 0.0351 | 0.0628 | |
| 6 Butane | 43 | 3.624 | 3.619 | 0.005 | 29 | 917 | 0.0351 | 0.0436 | |
| 7 Vinyl chloride | 62 | 3.650 | 3.656 | -0.006 | 20 | 724 | 0.0351 | 0.0448 | |
| 8 Butadiene | 54 | 3.736 | 3.731 | 0.005 | 20 | 432 | 0.0351 | 0.0402 | |
| 10 Bromomethane | 94 | 4.392 | 4.392 | 0.000 | 21 | 569 | 0.0351 | 0.0392 | |
| 11 Chloroethane | 64 | | 4.627 | | | | ND | ND | |
| 12 2-Methylbutane | 43 | 4.728 | 4.713 | 0.015 | 33 | 451 | 0.0351 | 0.0368 | |
| 13 Vinyl bromide | 106 | 5.006 | 5.022 | -0.016 | 33 | 591 | 0.0351 | 0.0335 | |
| 14 Trichlorofluoromethane | 101 | 5.123 | 5.134 | -0.011 | 70 | 2724 | 0.0351 | 0.0396 | M |
| 16 Pentane | 43 | 5.267 | 5.284 | -0.017 | 92 | 1145 | 0.0351 | 0.0460 | |
| 17 Ethanol | 45 | 5.774 | 5.716 | 0.058 | 15 | 1004 | 0.0702 | 0.1739 | |
| 18 Ethyl ether | 59 | 5.807 | 5.801 | 0.005 | 13 | 178 | 0.0351 | 0.0163 | |
| 19 Acrolein | 56 | | 6.159 | | | | ND | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.217 | 6.223 | -0.006 | 45 | 1575 | 0.0351 | 0.0351 | |
| 21 1,1-Dichloroethene | 96 | 6.249 | 6.250 | -0.001 | 35 | 564 | 0.0351 | 0.0310 | |
| 22 Acetone | 43 | 6.479 | 6.468 | 0.011 | 99 | 6632 | 0.0351 | 0.2194 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.629 | -0.006 | 64 | 2219 | 0.0351 | 0.0442 | |
| 24 Isopropyl alcohol | 45 | 6.863 | 6.794 | 0.069 | 33 | 977 | 0.0351 | 0.0367 | |
| 25 3-Chloro-1-propene | 41 | 7.034 | 7.039 | -0.005 | 1 | 626 | 0.0351 | 0.0349 | |
| 26 Acetonitrile | 41 | 7.125 | 7.136 | -0.011 | 52 | 541 | 0.0351 | 0.0576 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 95 | 1022 | 0.0351 | 0.0494 | |
| 28 2-Methyl-2-propanol | 59 | 7.616 | 7.573 | 0.043 | 7 | 1052 | 0.0351 | 0.0262 | |
| 29 Methyl tert-butyl ether | 73 | 7.760 | 7.749 | 0.011 | 84 | 2307 | 0.0351 | 0.0386 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.786 | 7.787 | -0.001 | 91 | 834 | 0.0351 | 0.0309 | |
| 32 Acrylonitrile | 53 | 7.909 | 7.909 | 0.000 | 11 | 196 | 0.0351 | 0.0195 | |
| 33 Hexane | 57 | 8.192 | 8.192 | 0.000 | 61 | 837 | 0.0351 | 0.0354 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.646 | 8.651 | -0.005 | 1 | 1357 | 0.0351 | 0.0388 | |
| 35 Vinyl acetate | 43 | 8.752 | 8.737 | 0.015 | 98 | 1363 | 0.0351 | 0.0322 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.766 | 9.767 | -0.001 | 34 | 667 | 0.0351 | 0.0321 | M |
| 38 2-Butanone (MEK) | 72 | 9.820 | 9.804 | 0.016 | 99 | 388 | 0.0351 | 0.0443 | |
| 39 Ethyl acetate | 88 | | 9.873 | | | | ND | ND | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 0.0702 | 0.0630 | |
| * 40 Chlorobromomethane | 128 | 10.225 | 10.226 | -0.001 | 83 | 380646 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.257 | 10.231 | 0.026 | 1 | 321 | 0.0351 | 0.0191 | |
| 42 Chloroform | 83 | 10.364 | 10.370 | -0.006 | 37 | 2311 | 0.0351 | 0.0462 | M |
| 43 Cyclohexane | 84 | 10.604 | 10.626 | -0.022 | 1 | 994 | 0.0351 | 0.0366 | M |
| 44 1,1,1-Trichloroethane | 97 | 10.626 | 10.642 | -0.016 | 2 | 2359 | 0.0351 | 0.0362 | |
| 45 Carbon tetrachloride | 117 | 10.903 | 10.898 | 0.005 | 71 | 2411 | 0.0351 | 0.0343 | |
| 47 Benzene | 78 | 11.352 | 11.352 | 0.000 | 24 | 3232 | 0.0351 | 0.0480 | M |
| 46 Isooctane | 57 | 11.346 | 11.352 | -0.006 | 66 | 3521 | 0.0351 | 0.0370 | M |
| 48 1,2-Dichloroethane | 62 | | 11.528 | | | | ND | ND | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 84 | 1275 | 0.0351 | 0.0370 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 96 | 2144730 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | | 12.617 | | | | ND | ND | |
| 53 Trichloroethene | 95 | 12.675 | 12.681 | -0.006 | 87 | 927 | 0.0351 | 0.0251 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 9013180 | 0.0351 | 0 | |
| 54 1,2-Dichloropropane | 63 | | 13.220 | | | | ND | ND | |
| 55 Methyl methacrylate | 69 | | 13.417 | | | | ND | ND | |
| 56 1,4-Dioxane | 88 | 13.476 | 13.454 | 0.022 | 1 | 359 | 0.0351 | 0.0218 | |
| 57 Dibromomethane | 174 | 13.492 | 13.486 | 0.006 | 55 | 860 | 0.0351 | 0.0207 | |
| 58 Dichlorobromomethane | 83 | | 13.801 | | | | ND | ND | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 9551145 | 0.0351 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 14 | 1011 | 0.0351 | 0.0198 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.055 | 15.029 | 0.026 | 36 | 1844 | 0.0351 | 0.0333 | |
| 65 Toluene | 92 | 15.338 | 15.338 | 0.000 | 94 | 2264 | 0.0351 | 0.0405 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 47 | 1919 | 0.0351 | 0.0352 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.957 | 15.947 | 0.010 | 86 | 1672 | 0.0351 | 0.0318 | |
| 67 1,1,2-Trichloroethane | 83 | | 16.315 | | | | ND | ND | |
| 68 Tetrachloroethene | 166 | 16.432 | 16.443 | -0.011 | 91 | 2144 | 0.0351 | 0.0380 | |
| 69 2-Hexanone | 43 | 16.774 | 16.763 | 0.011 | 82 | 1623 | 0.0351 | 0.0320 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 90 | 2065 | 0.0351 | 0.0320 | |
| 72 Ethylene Dibromide | 107 | 17.340 | 17.334 | 0.006 | 42 | 1176 | 0.0351 | 0.0218 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 90 | 2033809 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.311 | 18.306 | 0.005 | 36 | 3054 | 0.0351 | 0.0392 | |
| 76 Ethylbenzene | 91 | 18.460 | 18.466 | -0.006 | 96 | 5173 | 0.0351 | 0.0397 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 37 | 1895 | 0.0351 | 0.0361 | |
| 78 m-Xylene & p-Xylene | 106 | 18.716 | 18.717 | -0.001 | 0 | 3598 | 0.0702 | 0.0752 | |
| 79 o-Xylene | 106 | 19.560 | 19.549 | 0.011 | 93 | 918 | 0.0351 | 0.0196 | |
| 80 Styrene | 104 | 19.608 | 19.603 | 0.005 | 96 | 2321 | 0.0351 | 0.0321 | |
| 81 Bromoform | 173 | 20.024 | 20.035 | -0.011 | 6 | 999 | 0.0351 | 0.0171 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 0.1052 | 0.0947 | |
| 82 Isopropylbenzene | 105 | 20.270 | 20.264 | 0.006 | 96 | 3040 | 0.0351 | 0.0203 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.937 | 20.931 | 0.006 | 92 | 2408 | 0.0351 | 0.0347 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 97 | 6080 | 0.0351 | 0.0347 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 82 | 2401 | 0.0351 | 0.0400 | |
| 88 4-Ethyltoluene | 105 | 21.198 | 21.204 | -0.006 | 83 | 5268 | 0.0351 | 0.0360 | |
| 89 2-Chlorotoluene | 91 | 21.203 | 21.204 | -0.001 | 92 | 4829 | 0.0351 | 0.0380 | |
| 87 n-Decane | 57 | | 21.214 | | | | ND | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.316 | 21.310 | 0.006 | 91 | 4628 | 0.0351 | 0.0351 | |
| 91 Alpha Methyl Styrene | 118 | 21.684 | 21.689 | -0.005 | 83 | 1599 | 0.0351 | 0.0266 | |
| 92 tert-Butylbenzene | 119 | 21.807 | 21.807 | 0.000 | 90 | 4264 | 0.0351 | 0.0340 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 95 | 4266 | 0.0351 | 0.0323 | |
| 94 sec-Butylbenzene | 105 | 22.137 | 22.143 | -0.006 | 95 | 5887 | 0.0351 | 0.0324 | |
| 95 4-Isopropyltoluene | 119 | 22.351 | 22.346 | 0.005 | 95 | 4932 | 0.0351 | 0.0309 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 96 | 3162 | 0.0351 | 0.0354 | |
| 97 1,4-Dichlorobenzene | 146 | 22.511 | 22.506 | 0.005 | 89 | 3334 | 0.0351 | 0.0368 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 95 | 4018 | 0.0351 | 0.0324 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 94 | 4782 | 0.0351 | 0.0328 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 85 | 2070 | 0.0351 | 0.0293 | |
| 101 1,2-Dichlorobenzene | 146 | 23.034 | 23.029 | 0.005 | 93 | 3019 | 0.0351 | 0.0348 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 84 | 960 | 0.0351 | 0.0141 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.441 | 25.436 | 0.005 | 90 | 1928 | 0.0351 | 0.0247 | |
| 104 Hexachlorobutadiene | 225 | 25.633 | 25.628 | 0.005 | 92 | 2061 | 0.0351 | 0.0282 | |
| 105 Naphthalene | 128 | 25.879 | 25.884 | -0.005 | 13 | 1463 | 0.0351 | 0.009481 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.332 | 26.343 | -0.011 | 91 | 1527 | 0.0351 | 0.0210 | |

## QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15CAL1w_00200 | Amount Added: | 35.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: | 20.00 | Units: mL | Run Reagent |

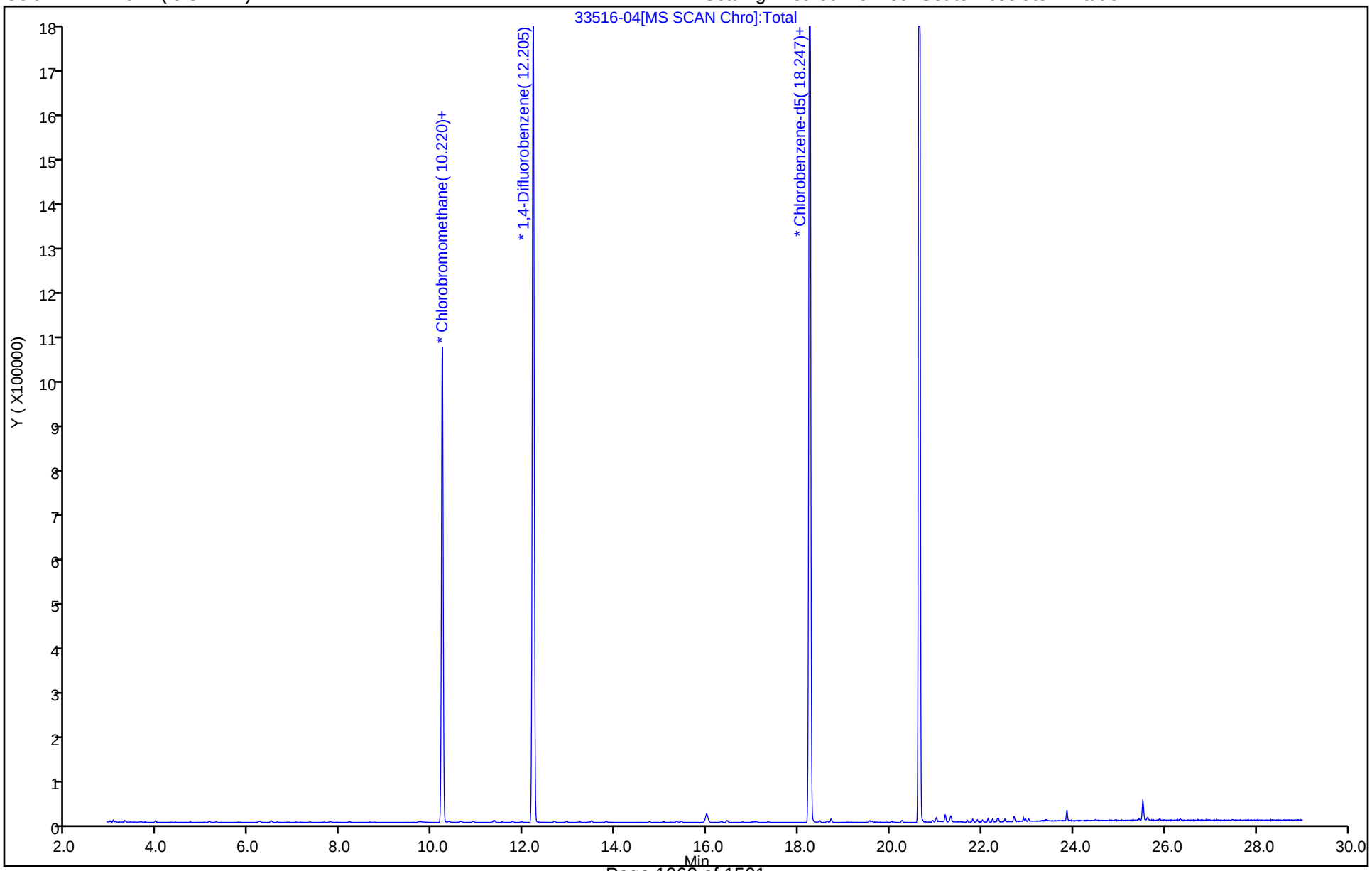
Report Date: 06-Dec-2018 10:38:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 4 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Burlington

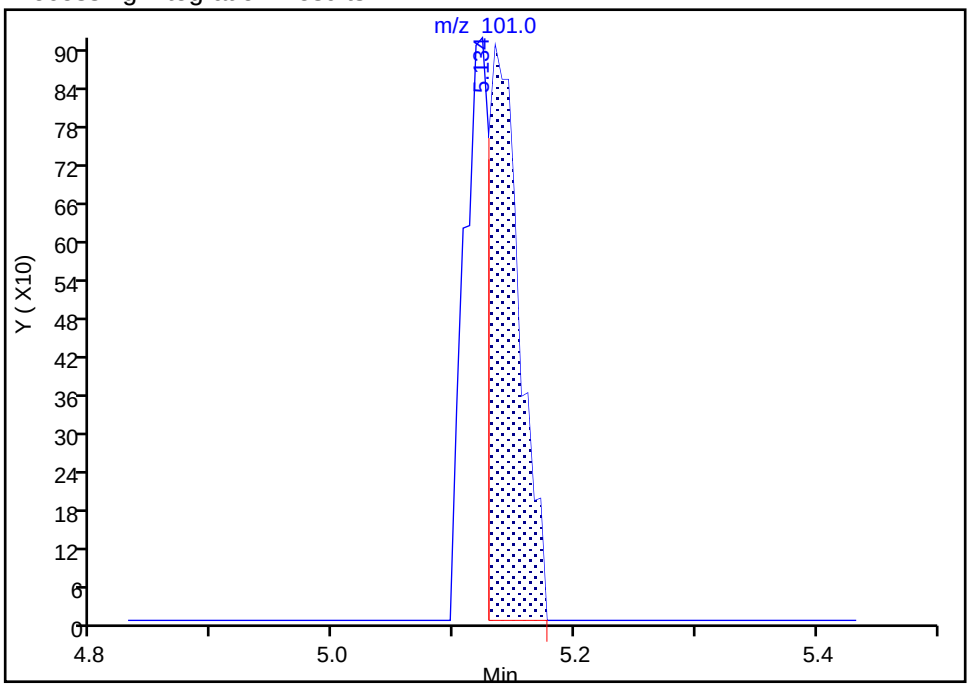
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D | | | | |
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 4 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

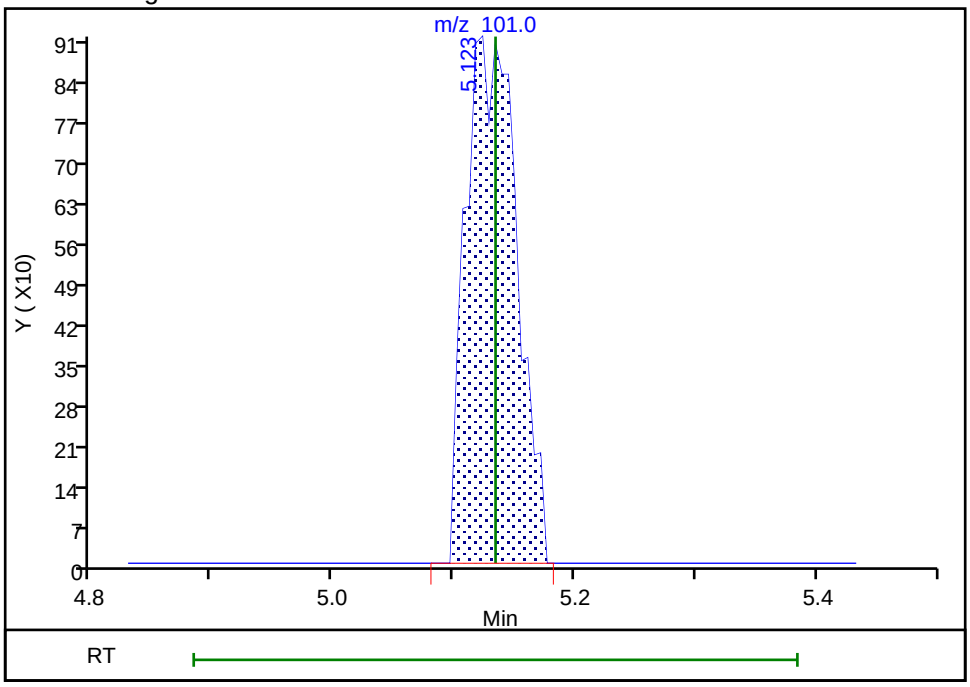
Processing Integration Results

RT: 5.13
Area: 1635
Amount: 0.023766
Amount Units: ppb v/v




Manual Integration Results

RT: 5.12
Area: 2724
Amount: 0.039596
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:19:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

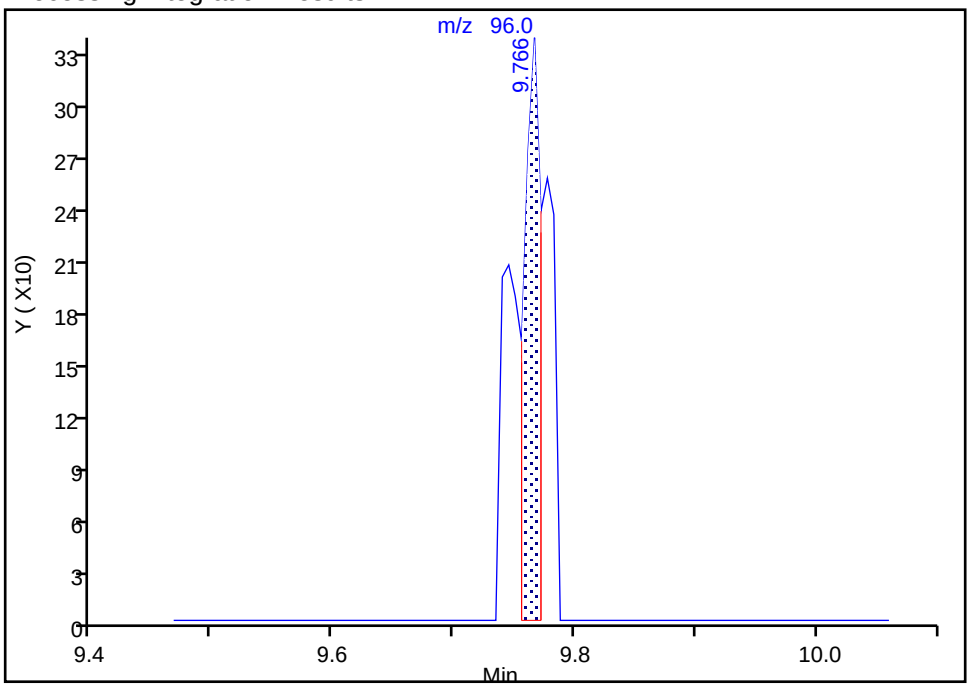
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D | | | | |
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 4 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

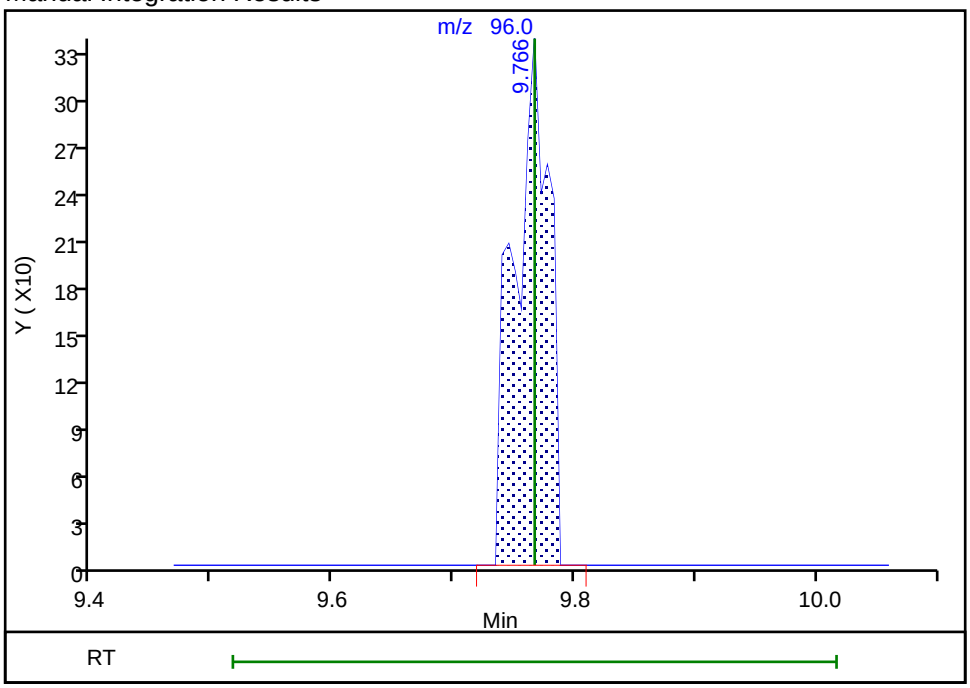
Processing Integration Results

RT: 9.77
Area: 322
Amount: 0.016448
Amount Units: ppb v/v




Manual Integration Results

RT: 9.77
Area: 667
Amount: 0.032058
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:19:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

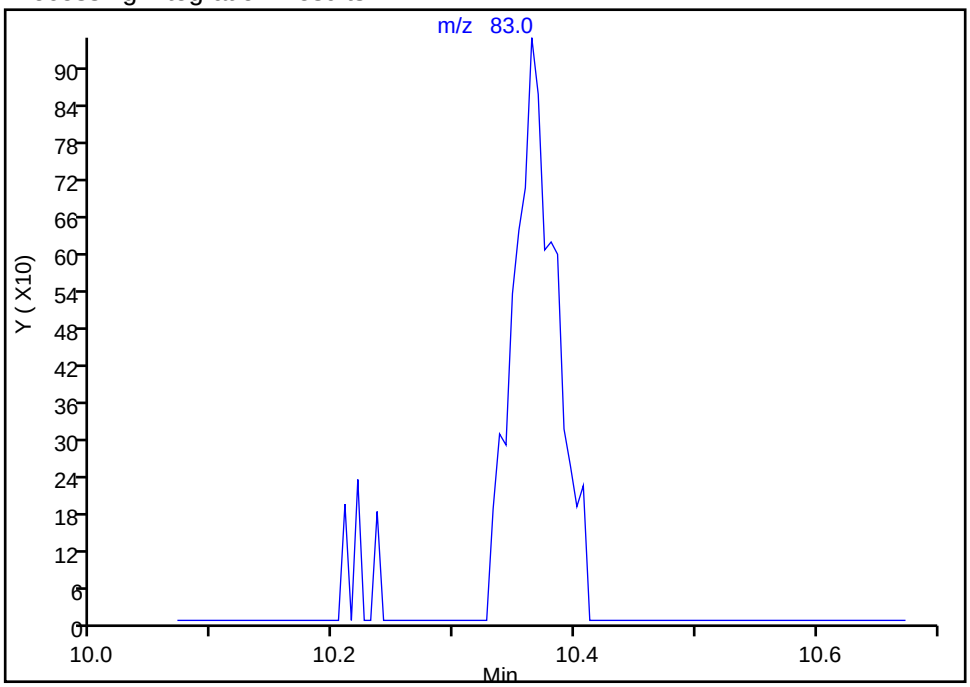
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D | | | | |
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 4 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 42 Chloroform, CAS: 67-66-3

Signal: 1

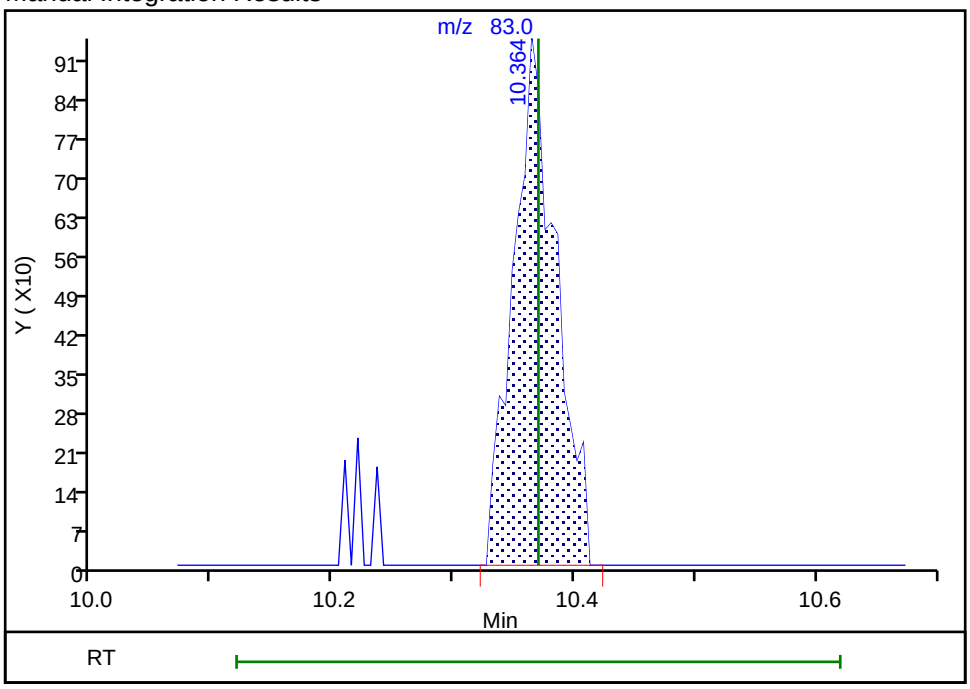
Not Detected
Expected RT: 10.37

Processing Integration Results




Manual Integration Results

RT: 10.36
Area: 2311
Amount: 0.046231
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:20:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

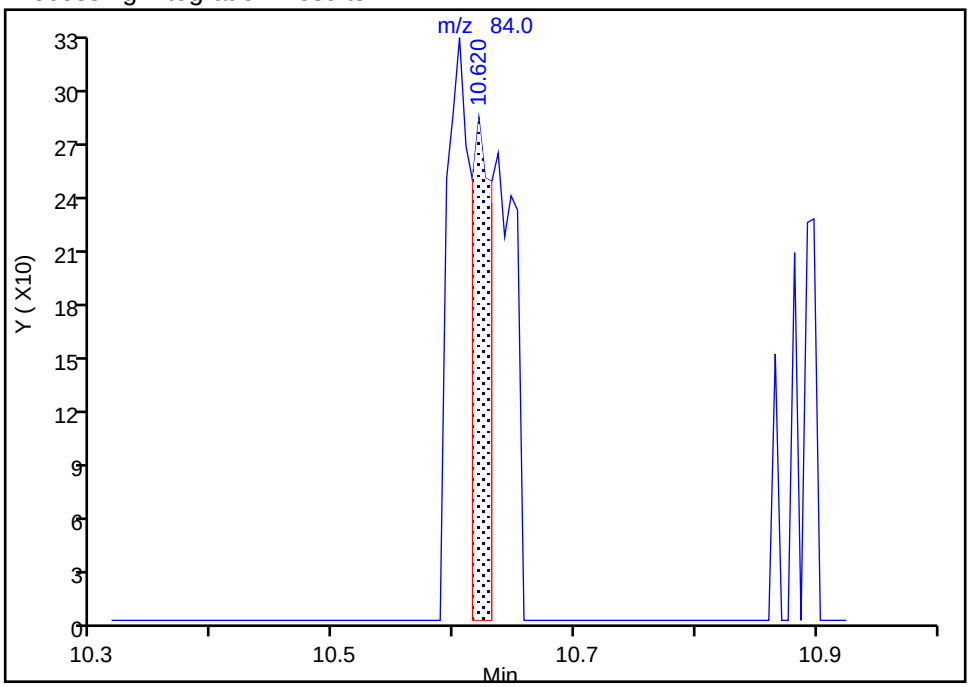
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D | | | | |
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 4 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

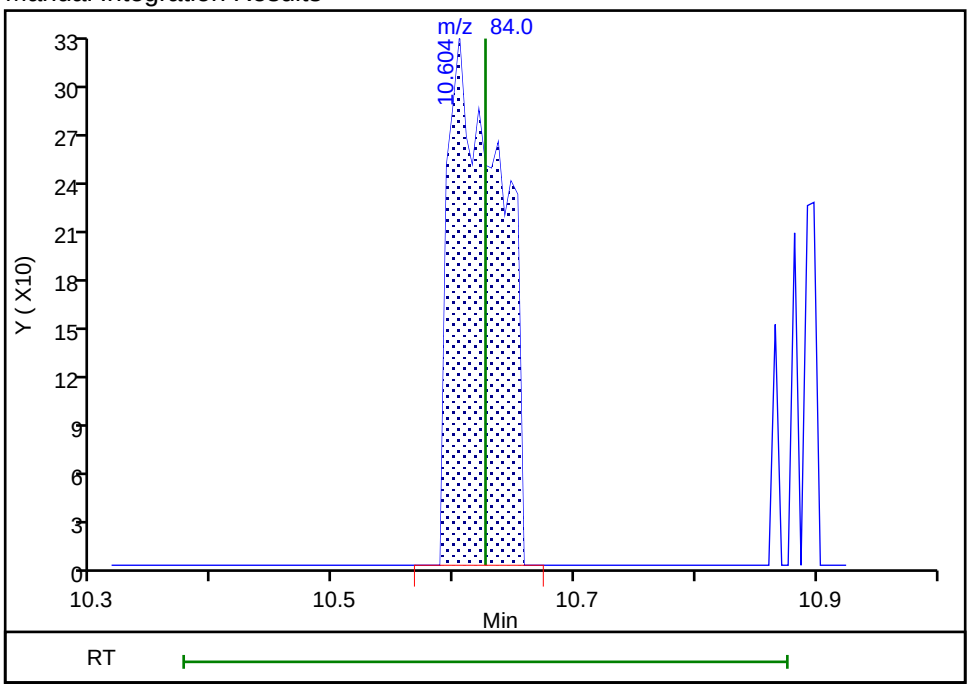
Processing Integration Results

RT: 10.62
Area: 329
Amount: 0.013243
Amount Units: ppb v/v




Manual Integration Results

RT: 10.60
Area: 994
Amount: 0.036631
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:20:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

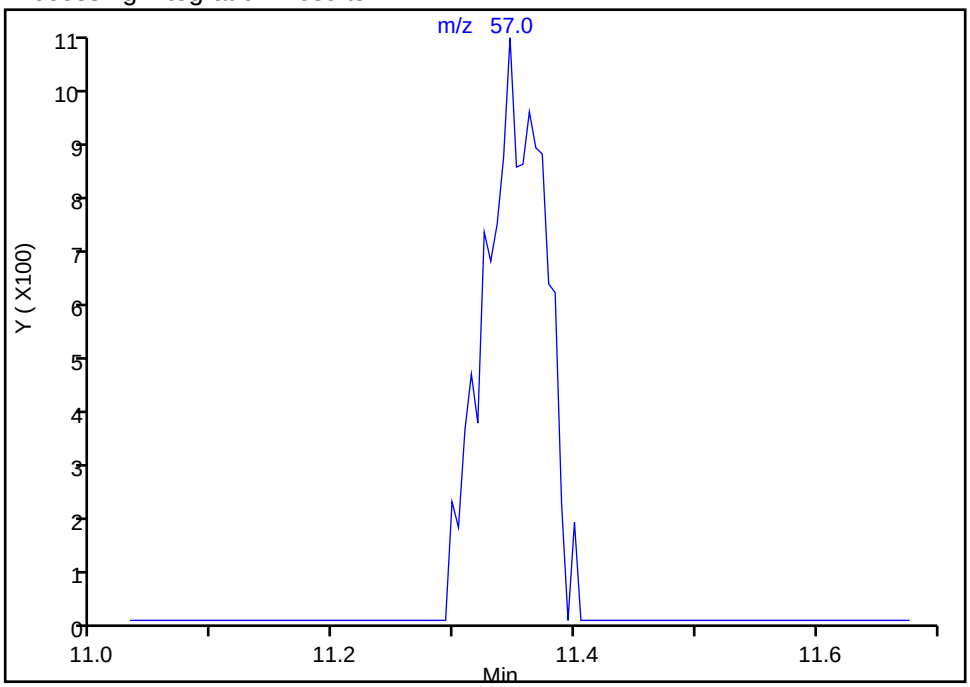
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D | | | | |
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 4 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 46 Isooctane, CAS: 540-84-1

Signal: 1

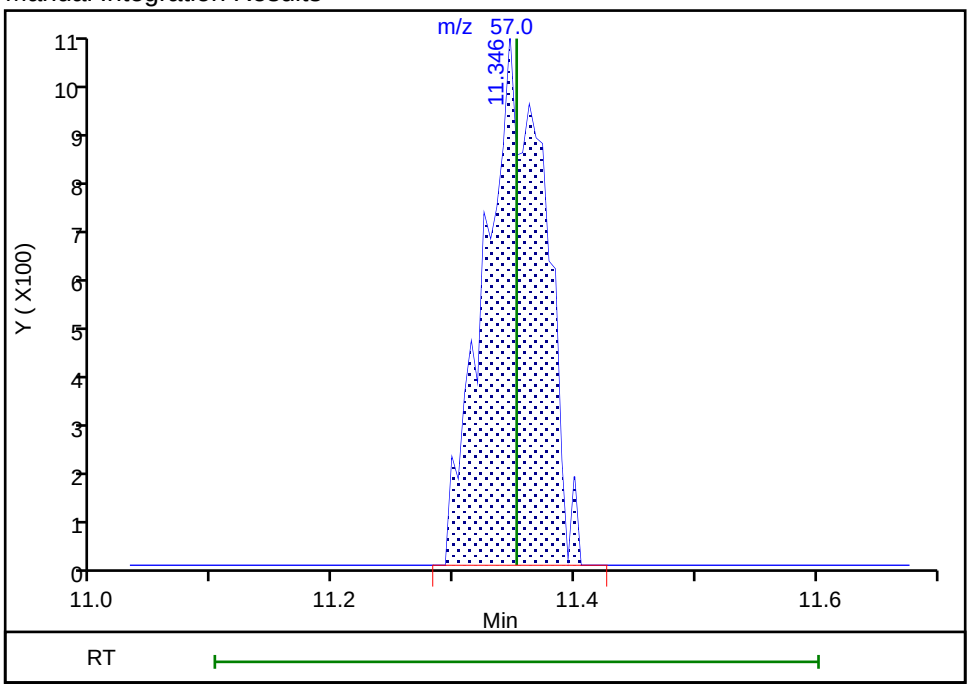
Not Detected
Expected RT: 11.35

Processing Integration Results




Manual Integration Results

RT: 11.35
Area: 3521
Amount: 0.036997
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:20:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

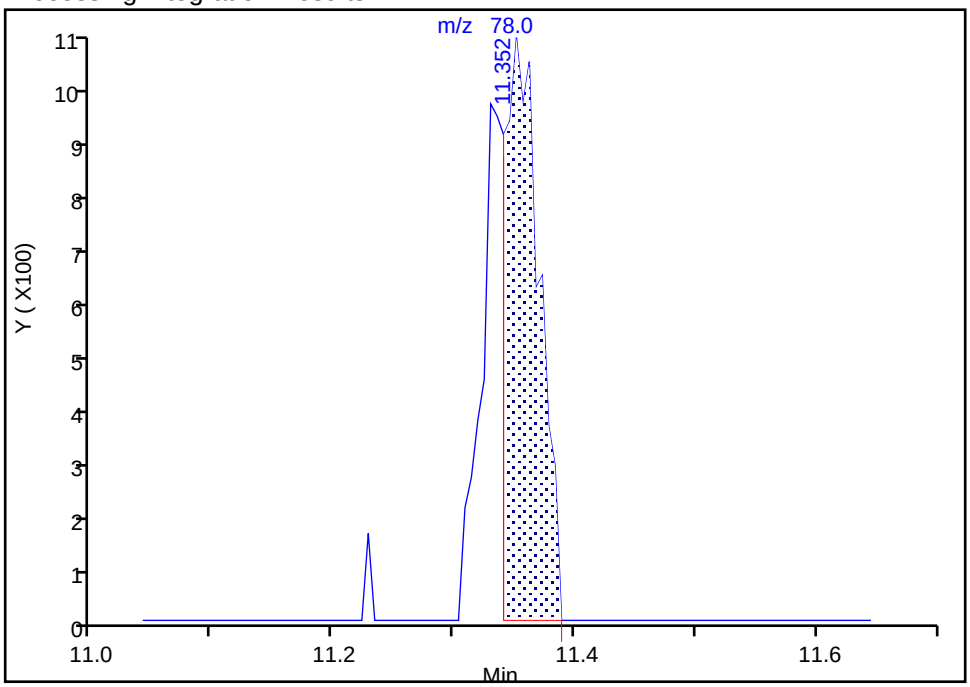
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D | | | | |
| Injection Date: | 04-Dec-2018 20:51:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 4 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2

Signal: 1

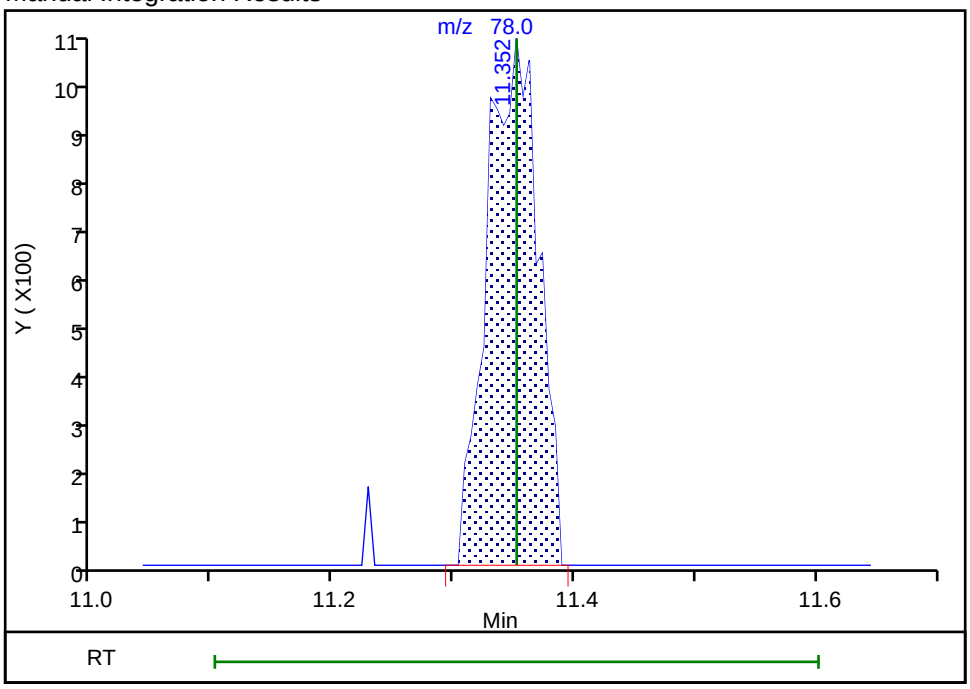
Processing Integration Results

RT: 11.35
Area: 2201
Amount: 0.032865
Amount Units: ppb v/v




Manual Integration Results

RT: 11.35
Area: 3232
Amount: 0.047973
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:20:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Dec-2018 21:44:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-005
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:20 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:34:02

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.962 | 2.962 | 0.000 | 85 | 1935 | 0.2004 | 0.2401 | |
| 2 Dichlorodifluoromethane | 85 | 3.031 | 3.031 | 0.000 | 99 | 7033 | 0.2004 | 0.1776 | |
| 3 Chlorodifluoromethane | 51 | 3.079 | 3.080 | -0.001 | 97 | 3859 | 0.2004 | 0.1933 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.288 | 3.288 | 0.000 | 92 | 5769 | 0.2004 | 0.1861 | |
| 5 Chloromethane | 50 | 3.416 | 3.416 | 0.000 | 96 | 1874 | 0.2004 | 0.2505 | |
| 6 Butane | 43 | 3.618 | 3.619 | -0.001 | 88 | 2332 | 0.2004 | 0.2088 | |
| 7 Vinyl chloride | 62 | 3.651 | 3.656 | -0.006 | 96 | 1589 | 0.2004 | 0.1850 | |
| 8 Butadiene | 54 | 3.736 | 3.731 | 0.005 | 74 | 987 | 0.2004 | 0.1727 | |
| 10 Bromomethane | 94 | 4.392 | 4.392 | 0.000 | 53 | 1505 | 0.2004 | 0.1950 | |
| 11 Chloroethane | 64 | 4.627 | 4.627 | 0.000 | 1 | 368 | 0.2004 | 0.1119 | |
| 12 2-Methylbutane | 43 | 4.729 | 4.713 | 0.016 | 62 | 1331 | 0.2004 | 0.2047 | |
| 13 Vinyl bromide | 106 | 5.027 | 5.022 | 0.005 | 93 | 1654 | 0.2004 | 0.1766 | |
| 14 Trichlorofluoromethane | 101 | 5.140 | 5.134 | 0.006 | 97 | 6882 | 0.2004 | 0.1883 | |
| 16 Pentane | 43 | 5.289 | 5.284 | 0.005 | 62 | 3016 | 0.2004 | 0.2281 | |
| 17 Ethanol | 45 | 5.743 | 5.716 | 0.027 | 91 | 1555 | 0.4009 | 0.5070 | |
| 18 Ethyl ether | 59 | 5.807 | 5.801 | 0.006 | 95 | 1020 | 0.2004 | 0.1758 | |
| 19 Acrolein | 56 | 6.159 | 6.159 | 0.000 | 20 | 663 | 0.2004 | 0.2469 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.212 | 6.223 | -0.011 | 82 | 4583 | 0.2004 | 0.1923 | |
| 21 1,1-Dichloroethene | 96 | 6.260 | 6.250 | 0.010 | 93 | 1907 | 0.2004 | 0.1975 | |
| 22 Acetone | 43 | 6.484 | 6.468 | 0.016 | 99 | 9247 | 0.2004 | 0.5758 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.629 | -0.006 | 80 | 4687 | 0.2004 | 0.1759 | |
| 24 Isopropyl alcohol | 45 | 6.831 | 6.794 | 0.037 | 39 | 2638 | 0.2004 | 0.1868 | |
| 25 3-Chloro-1-propene | 41 | 7.039 | 7.039 | 0.000 | 88 | 2020 | 0.2004 | 0.2121 | |
| 26 Acetonitrile | 41 | 7.146 | 7.136 | 0.010 | 78 | 1119 | 0.2004 | 0.2244 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 94 | 2207 | 0.2004 | 0.2010 | |
| 28 2-Methyl-2-propanol | 59 | 7.610 | 7.573 | 0.037 | 88 | 3574 | 0.2004 | 0.1675 | |
| 29 Methyl tert-butyl ether | 73 | 7.765 | 7.749 | 0.016 | 94 | 6053 | 0.2004 | 0.1907 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.787 | 7.787 | 0.000 | 71 | 1729 | 0.2004 | 0.1206 | |
| 32 Acrylonitrile | 53 | 7.909 | 7.909 | 0.000 | 64 | 943 | 0.2004 | 0.1764 | M |
| 33 Hexane | 57 | 8.187 | 8.192 | -0.005 | 82 | 2429 | 0.2004 | 0.1937 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.646 | 8.651 | -0.005 | 13 | 3716 | 0.2004 | 0.2003 | |
| 35 Vinyl acetate | 43 | 8.742 | 8.737 | 0.005 | 98 | 4022 | 0.2004 | 0.1791 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.767 | 9.767 | 0.000 | 88 | 2165 | 0.2004 | 0.1959 | |
| 38 2-Butanone (MEK) | 72 | 9.815 | 9.804 | 0.011 | 66 | 1140 | 0.2004 | 0.2449 | |
| 39 Ethyl acetate | 88 | | 9.873 | | | | ND | ND | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 0.4009 | 0.3165 | |
| * 40 Chlorobromomethane | 128 | 10.220 | 10.226 | -0.006 | 82 | 202194 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.258 | 10.231 | 0.027 | 27 | 1696 | 0.2004 | 0.1893 | |
| 42 Chloroform | 83 | 10.370 | 10.370 | 0.000 | 96 | 5380 | 0.2004 | 0.2026 | |
| 43 Cyclohexane | 84 | 10.631 | 10.626 | 0.005 | 92 | 2888 | 0.2004 | 0.2001 | M |
| 44 1,1,1-Trichloroethane | 97 | 10.637 | 10.642 | -0.005 | 93 | 6680 | 0.2004 | 0.1928 | |
| 45 Carbon tetrachloride | 117 | 10.893 | 10.898 | -0.005 | 91 | 7146 | 0.2004 | 0.1911 | |
| 47 Benzene | 78 | 11.341 | 11.352 | -0.011 | 95 | 7681 | 0.2004 | 0.2144 | M |
| 46 Isooctane | 57 | 11.352 | 11.352 | 0.000 | 93 | 9788 | 0.2004 | 0.1934 | |
| 48 1,2-Dichloroethane | 62 | 11.533 | 11.528 | 0.005 | 97 | 4234 | 0.2004 | 0.1827 | |
| 49 n-Heptane | 43 | 11.752 | 11.757 | -0.005 | 81 | 3821 | 0.2004 | 0.2083 | |
| * 50 1,4-Difluorobenzene | 114 | 12.206 | 12.211 | -0.005 | 96 | 1140516 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.659 | 12.617 | 0.042 | 52 | 1852 | 0.2004 | 0.2644 | |
| 53 Trichloroethene | 95 | 12.681 | 12.681 | 0.000 | 95 | 3877 | 0.2004 | 0.1975 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 6380931 | 0.2004 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.220 | 13.220 | 0.000 | 79 | 2707 | 0.2004 | 0.1944 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 88 | 2775 | 0.2004 | 0.1921 | |
| 56 1,4-Dioxane | 88 | 13.465 | 13.454 | 0.011 | 46 | 1750 | 0.2004 | 0.2001 | M |
| 57 Dibromomethane | 174 | 13.481 | 13.486 | -0.005 | 90 | 4199 | 0.2004 | 0.1897 | |
| 58 Dichlorobromomethane | 83 | 13.796 | 13.801 | -0.005 | 96 | 7090 | 0.2004 | 0.1901 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 7432725 | 0.2004 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 70 | 5384 | 0.2004 | 0.1980 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.050 | 15.029 | 0.021 | 90 | 5598 | 0.2004 | 0.1903 | |
| 65 Toluene | 92 | 15.344 | 15.338 | 0.006 | 94 | 6663 | 0.2004 | 0.1992 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 76 | 6024 | 0.2004 | 0.2078 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.952 | 15.947 | 0.005 | 96 | 6075 | 0.2004 | 0.2174 | M |
| 67 1,1,2-Trichloroethane | 83 | 16.320 | 16.315 | 0.005 | 93 | 3058 | 0.2004 | 0.1889 | |
| 68 Tetrachloroethene | 166 | 16.438 | 16.443 | -0.005 | 78 | 6458 | 0.2004 | 0.1912 | |
| 69 2-Hexanone | 43 | 16.769 | 16.763 | 0.006 | 90 | 5492 | 0.2004 | 0.1806 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 97 | 6376 | 0.2004 | 0.1652 | |
| 72 Ethylene Dibromide | 107 | 17.340 | 17.334 | 0.006 | 95 | 5784 | 0.2004 | 0.1792 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 90 | 1217733 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.306 | 18.306 | 0.000 | 95 | 9338 | 0.2004 | 0.2004 | |
| 76 Ethylbenzene | 91 | 18.471 | 18.466 | 0.005 | 99 | 14768 | 0.2004 | 0.1895 | |
| 77 n-Nonane | 57 | 18.631 | 18.626 | 0.005 | 79 | 6412 | 0.2004 | 0.2040 | |
| 78 m-Xylene & p-Xylene | 106 | 18.711 | 18.717 | -0.006 | 0 | 10797 | 0.4009 | 0.3767 | |
| 79 o-Xylene | 106 | 19.554 | 19.549 | 0.005 | 97 | 5588 | 0.2004 | 0.1991 | |
| 80 Styrene | 104 | 19.608 | 19.603 | 0.005 | 95 | 6906 | 0.2004 | 0.1594 | |
| 81 Bromoform | 173 | 20.040 | 20.035 | 0.005 | 85 | 4664 | 0.2004 | 0.1334 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 0.6013 | 0.5758 | |
| 82 Isopropylbenzene | 105 | 20.259 | 20.264 | -0.005 | 98 | 16296 | 0.2004 | 0.1819 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.937 | 20.931 | 0.006 | 98 | 8093 | 0.2004 | 0.1948 | |
| 85 N-Propylbenzene | 91 | 21.011 | 21.006 | 0.005 | 97 | 20509 | 0.2004 | 0.1955 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 91 | 8452 | 0.2004 | 0.2353 | |
| 88 4-Ethyltoluene | 105 | 21.204 | 21.204 | 0.000 | 91 | 16807 | 0.2004 | 0.1919 | |
| 89 2-Chlorotoluene | 91 | 21.204 | 21.204 | 0.000 | 93 | 14961 | 0.2004 | 0.1968 | |
| 87 n-Decane | 57 | 21.220 | 21.214 | 0.006 | 95 | 8525 | 0.2004 | 0.2166 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 91 | 14450 | 0.2004 | 0.1830 | |
| 91 Alpha Methyl Styrene | 118 | 21.689 | 21.689 | 0.000 | 89 | 5520 | 0.2004 | 0.1536 | |
| 92 tert-Butylbenzene | 119 | 21.807 | 21.807 | 0.000 | 90 | 14099 | 0.2004 | 0.1877 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 14593 | 0.2004 | 0.1844 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 96 | 19868 | 0.2004 | 0.1823 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 97 | 17806 | 0.2004 | 0.1863 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 97 | 10221 | 0.2004 | 0.1910 | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 93 | 9793 | 0.2004 | 0.1803 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 13591 | 0.2004 | 0.1829 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 96 | 16073 | 0.2004 | 0.1842 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 93 | 7999 | 0.2004 | 0.1889 | |
| 101 1,2-Dichlorobenzene | 146 | 23.034 | 23.029 | 0.005 | 93 | 9692 | 0.2004 | 0.1863 | |
| 102 Dodecane | 57 | 24.491 | 24.486 | 0.005 | 90 | 6531 | 0.2004 | 0.1601 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 93 | 7583 | 0.2004 | 0.1620 | |
| 104 Hexachlorobutadiene | 225 | 25.623 | 25.628 | -0.005 | 96 | 7699 | 0.2004 | 0.1757 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 12914 | 0.2004 | 0.1398 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.338 | 26.343 | -0.005 | 94 | 7227 | 0.2004 | 0.1664 | |

## QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL1w_00200 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

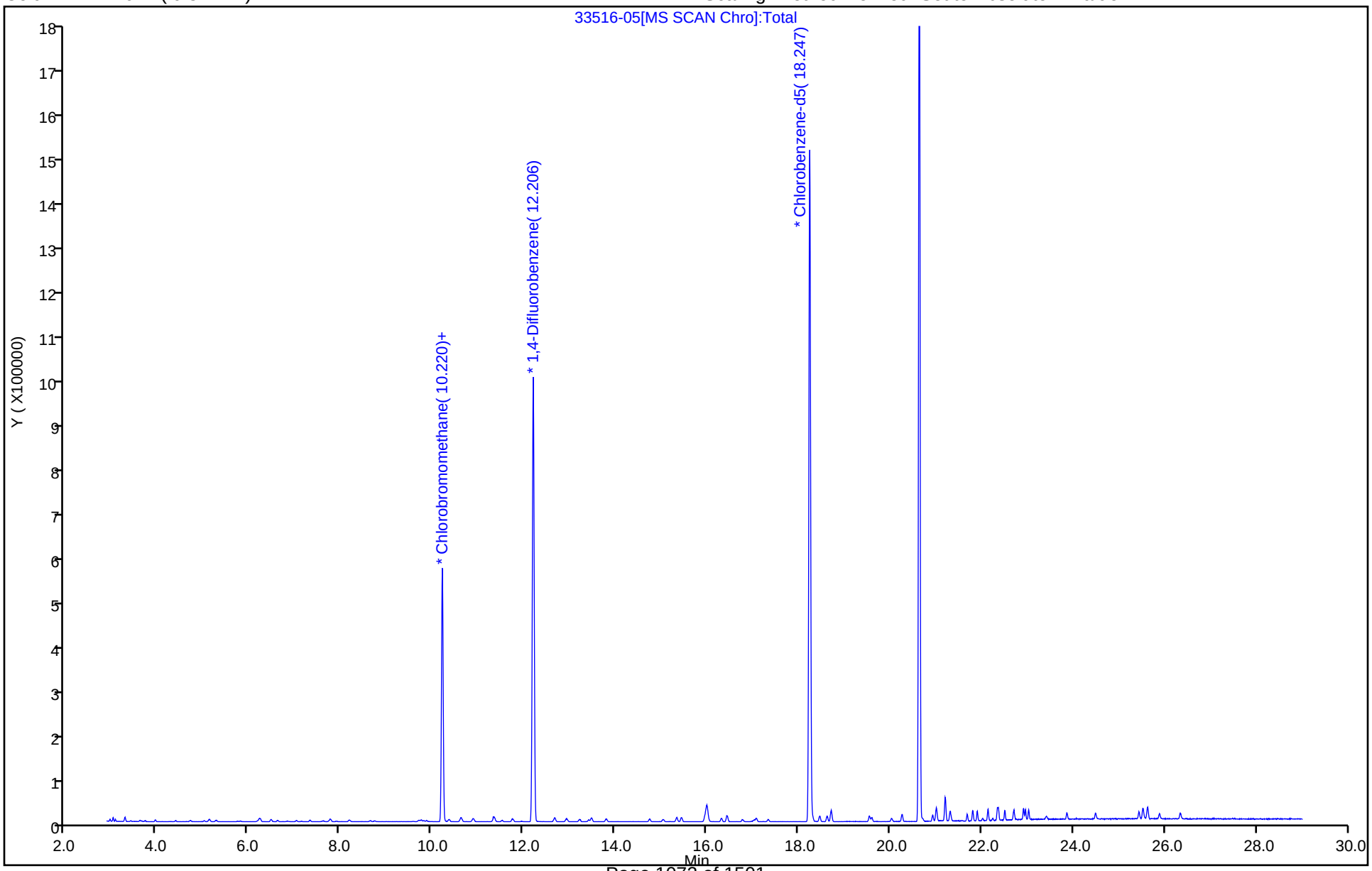
Report Date: 06-Dec-2018 10:38:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 04-Dec-2018 21:44:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Burlington

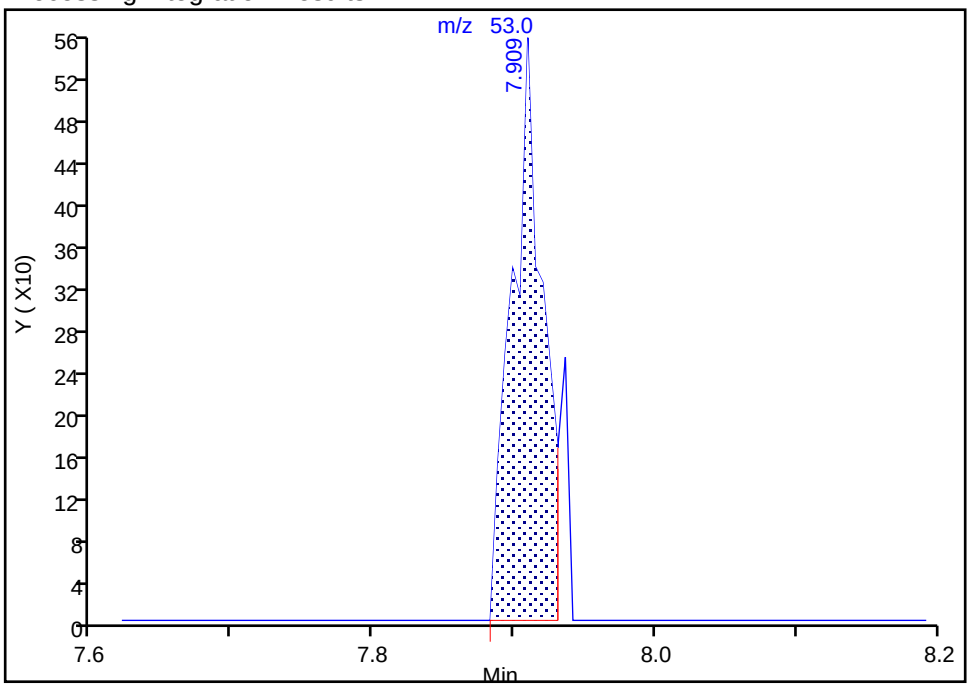
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D | | | | |
| Injection Date: | 04-Dec-2018 21:44:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 32 Acrylonitrile, CAS: 107-13-1

Signal: 1

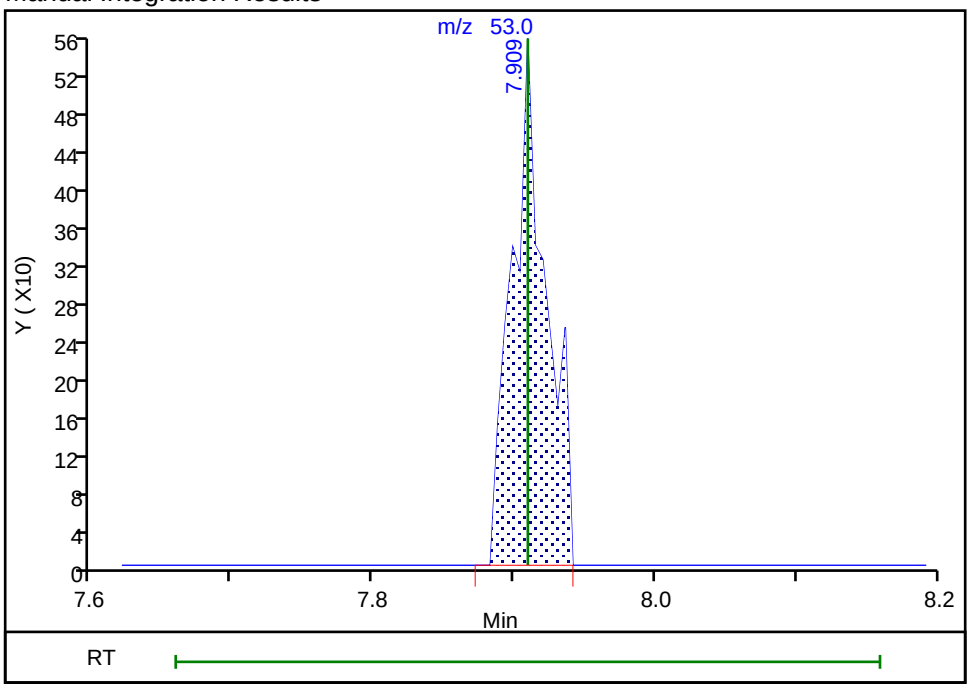
Processing Integration Results

RT: 7.91
Area: 862
Amount: 0.161214
Amount Units: ppb v/v




Manual Integration Results

RT: 7.91
Area: 943
Amount: 0.176363
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:32:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

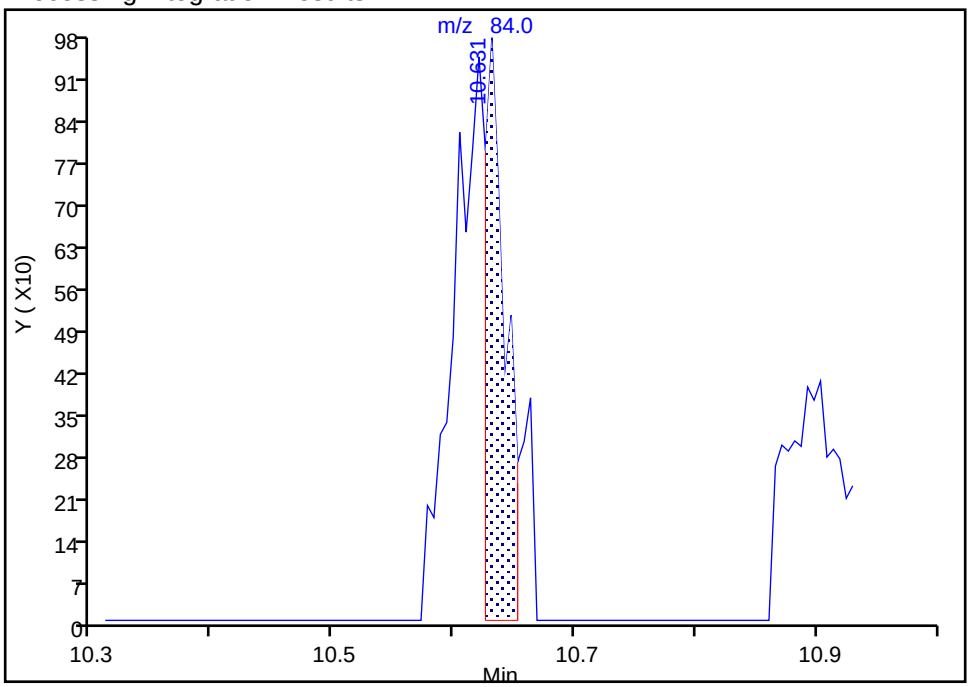
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D | | | | |
| Injection Date: | 04-Dec-2018 21:44:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

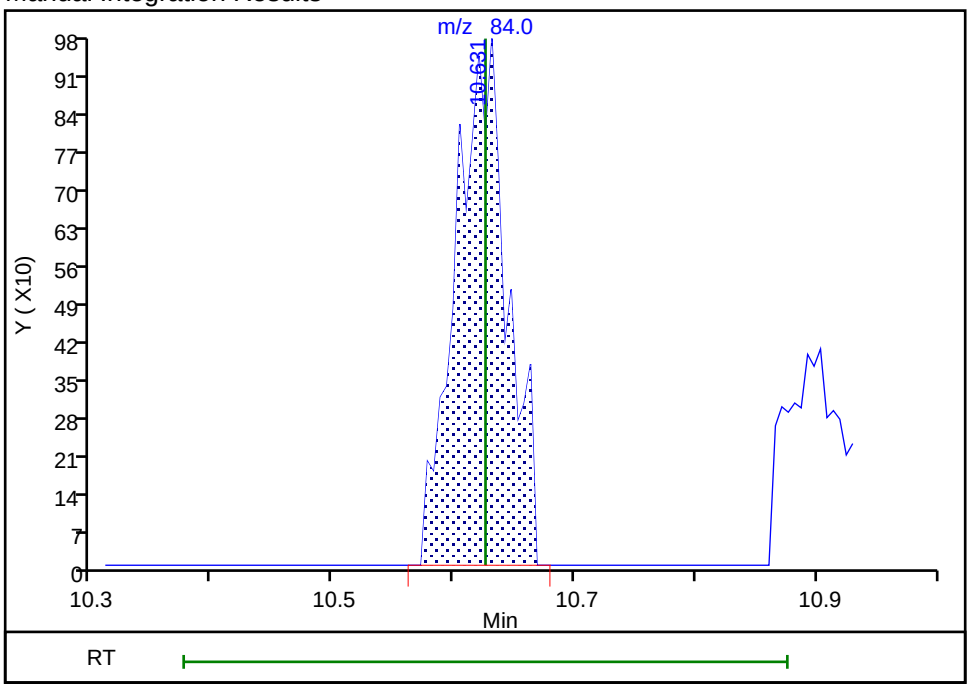
Processing Integration Results

RT: 10.63
Area: 1177
Amount: 0.089094
Amount Units: ppb v/v




Manual Integration Results

RT: 10.63
Area: 2888
Amount: 0.200136
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:32:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

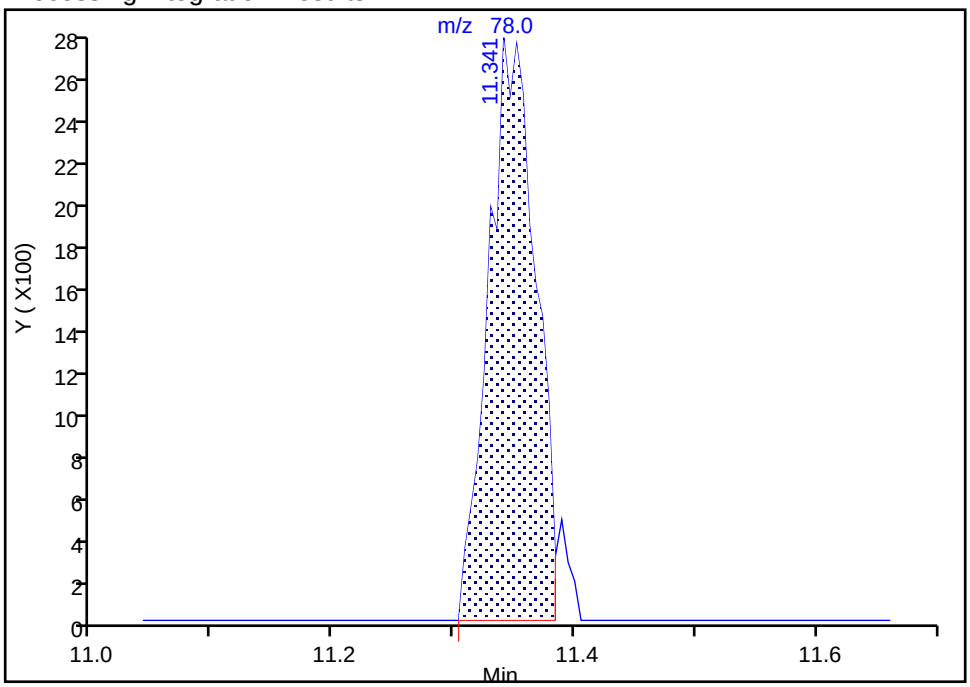
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D | | | | |
| Injection Date: | 04-Dec-2018 21:44:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 47 Benzene, CAS: 71-43-2

Signal: 1

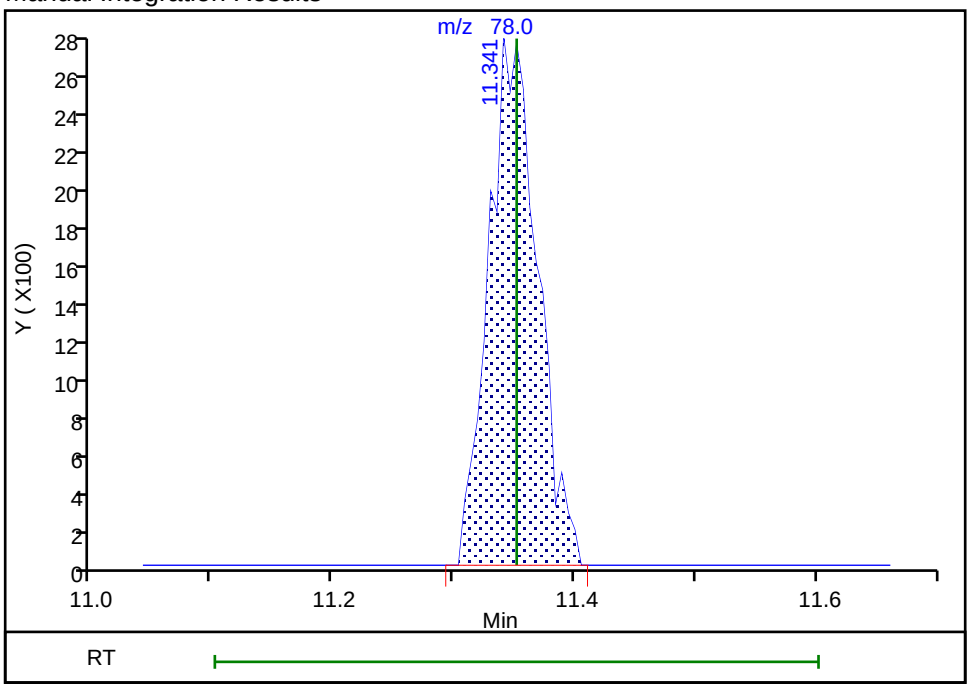
Processing Integration Results

RT: 11.34
Area: 7383
Amount: 0.207308
Amount Units: ppb v/v




Manual Integration Results

RT: 11.34
Area: 7681
Amount: 0.214396
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:32:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

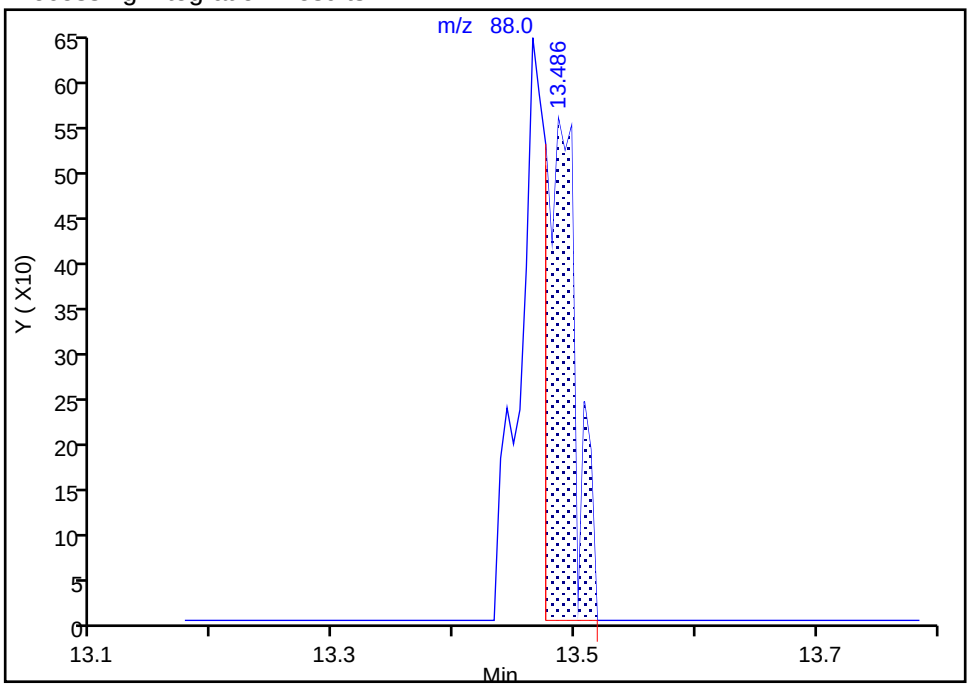
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D | | | | |
| Injection Date: | 04-Dec-2018 21:44:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

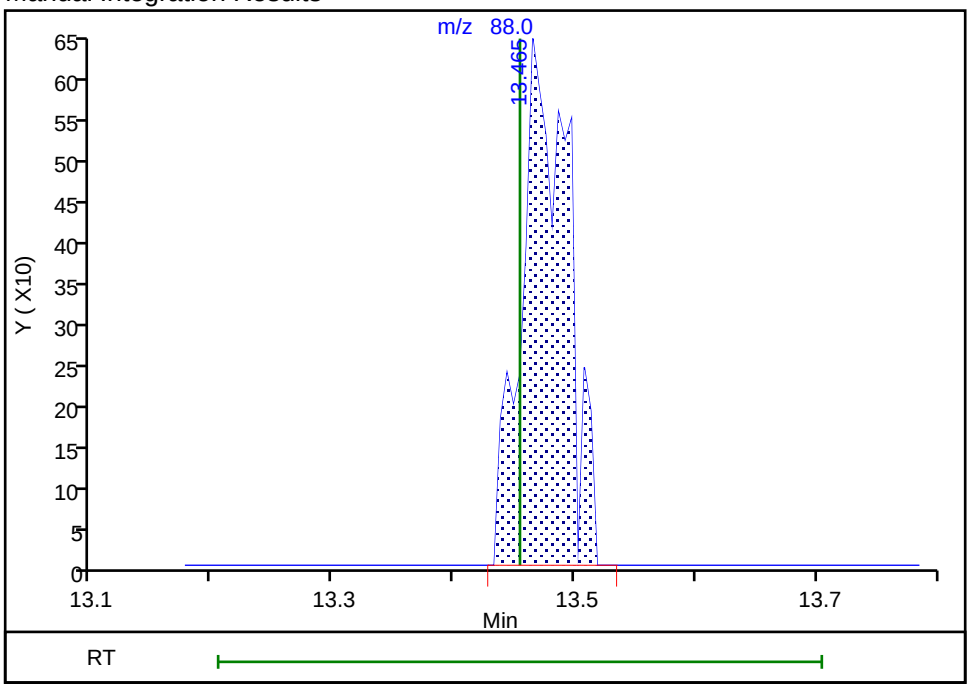
Processing Integration Results

RT: 13.49
Area: 959
Amount: 0.109649
Amount Units: ppb v/v




Manual Integration Results

RT: 13.47
Area: 1750
Amount: 0.200090
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:32:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

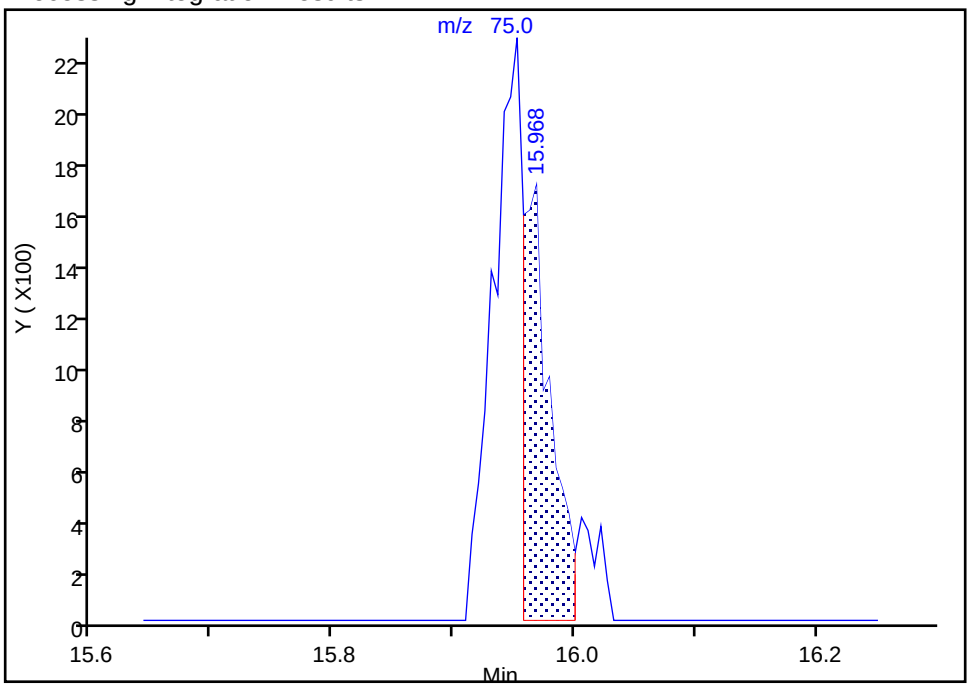
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D | | | | |
| Injection Date: | 04-Dec-2018 21:44:30 | Instrument ID: | CHC.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

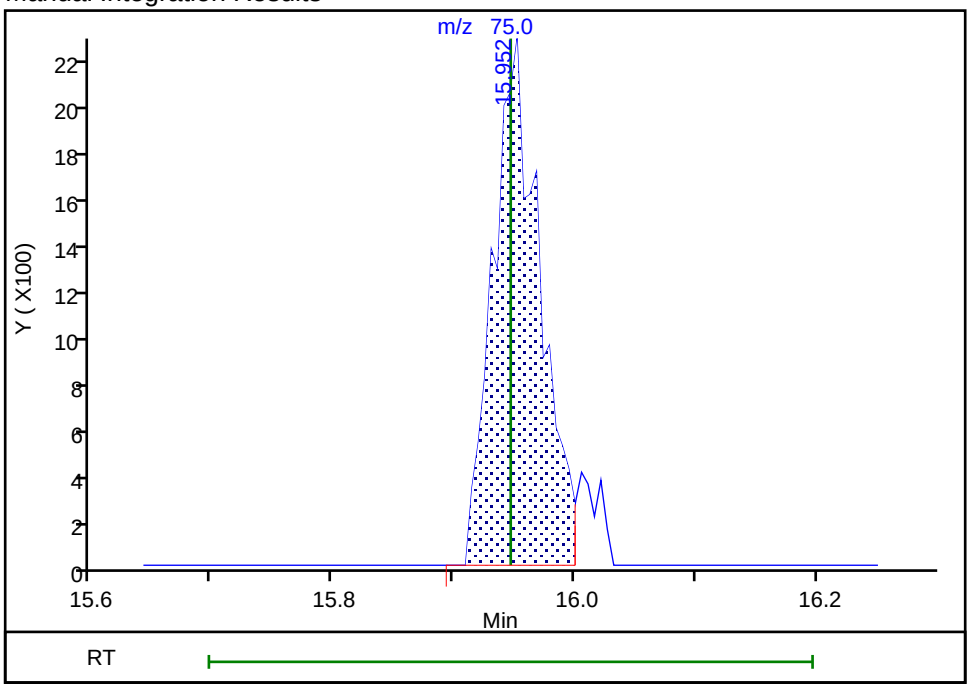
Processing Integration Results

RT: 15.97
Area: 2701
Amount: 0.105755
Amount Units: ppb v/v




Manual Integration Results

RT: 15.95
Area: 6075
Amount: 0.217393
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:33:43

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-06.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Dec-2018 22:37:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-006
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:23 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:35:08

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.967 | 2.962 | 0.005 | 92 | 3974 | 0.5005 | 0.4901 | |
| 2 Dichlorodifluoromethane | 85 | 3.037 | 3.031 | 0.006 | 98 | 19180 | 0.5005 | 0.4814 | |
| 3 Chlorodifluoromethane | 51 | 3.085 | 3.080 | 0.005 | 98 | 9680 | 0.5005 | 0.4820 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.298 | 3.288 | 0.010 | 91 | 14514 | 0.5005 | 0.4653 | |
| 5 Chloromethane | 50 | 3.426 | 3.416 | 0.010 | 97 | 3732 | 0.5005 | 0.4958 | |
| 6 Butane | 43 | 3.618 | 3.619 | -0.001 | 94 | 5571 | 0.5005 | 0.4957 | |
| 7 Vinyl chloride | 62 | 3.661 | 3.656 | 0.005 | 99 | 3797 | 0.5005 | 0.4395 | |
| 8 Butadiene | 54 | 3.741 | 3.731 | 0.010 | 92 | 2799 | 0.5005 | 0.4869 | |
| 10 Bromomethane | 94 | 4.397 | 4.392 | 0.005 | 93 | 3896 | 0.5005 | 0.5017 | |
| 11 Chloroethane | 64 | 4.638 | 4.627 | 0.011 | 80 | 1620 | 0.5005 | 0.4897 | |
| 12 2-Methylbutane | 43 | 4.707 | 4.713 | -0.006 | 64 | 3326 | 0.5005 | 0.5085 | |
| 13 Vinyl bromide | 106 | 5.022 | 5.022 | 0.000 | 92 | 4561 | 0.5005 | 0.4840 | |
| 14 Trichlorofluoromethane | 101 | 5.139 | 5.134 | 0.005 | 97 | 18598 | 0.5005 | 0.5058 | |
| 16 Pentane | 43 | 5.289 | 5.284 | 0.005 | 95 | 7215 | 0.5005 | 0.5424 | |
| 17 Ethanol | 45 | 5.716 | 5.716 | 0.000 | 98 | 19923 | 5.01 | 6.46 | |
| 18 Ethyl ether | 59 | 5.812 | 5.801 | 0.011 | 89 | 2982 | 0.5005 | 0.5107 | |
| 19 Acrolein | 56 | 6.175 | 6.159 | 0.016 | 21 | 1419 | 0.5005 | 0.5252 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.217 | 6.223 | -0.006 | 93 | 10995 | 0.5005 | 0.4585 | |
| 21 1,1-Dichloroethene | 96 | 6.255 | 6.250 | 0.005 | 92 | 4914 | 0.5005 | 0.5059 | |
| 22 Acetone | 43 | 6.474 | 6.468 | 0.006 | 100 | 15887 | 0.5005 | 0.9833 | |
| 23 Carbon disulfide | 76 | 6.628 | 6.629 | -0.001 | 99 | 12805 | 0.5005 | 0.4777 | |
| 24 Isopropyl alcohol | 45 | 6.815 | 6.794 | 0.021 | 95 | 7054 | 0.5005 | 0.4964 | |
| 25 3-Chloro-1-propene | 41 | 7.034 | 7.039 | -0.005 | 86 | 5082 | 0.5005 | 0.5304 | |
| 26 Acetonitrile | 41 | 7.141 | 7.136 | 0.005 | 98 | 2820 | 0.5005 | 0.5622 | |
| 27 Methylene Chloride | 49 | 7.338 | 7.333 | 0.005 | 95 | 6033 | 0.5005 | 0.5461 | |
| 28 2-Methyl-2-propanol | 59 | 7.594 | 7.573 | 0.021 | 97 | 10726 | 0.5005 | 0.4995 | |
| 29 Methyl tert-butyl ether | 73 | 7.760 | 7.749 | 0.011 | 94 | 15769 | 0.5005 | 0.4937 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.781 | 7.787 | -0.006 | 95 | 7899 | 0.5005 | 0.5477 | |
| 32 Acrylonitrile | 53 | 7.915 | 7.909 | 0.005 | 72 | 2281 | 0.5005 | 0.4240 | |
| 33 Hexane | 57 | 8.187 | 8.192 | -0.005 | 85 | 6636 | 0.5005 | 0.5259 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.651 | 8.651 | 0.000 | 98 | 9285 | 0.5005 | 0.4974 | |
| 35 Vinyl acetate | 43 | 8.747 | 8.737 | 0.010 | 99 | 10689 | 0.5005 | 0.4730 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.766 | 9.767 | -0.001 | 98 | 5832 | 0.5005 | 0.5245 | |
| 38 2-Butanone (MEK) | 72 | 9.814 | 9.804 | 0.010 | 99 | 2033 | 0.5005 | 0.4340 | |
| 39 Ethyl acetate | 88 | | 9.873 | | | | ND | ND | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 1.00 | 1.07 | |
| * 40 Chlorobromomethane | 128 | 10.225 | 10.226 | -0.001 | 82 | 203426 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.273 | 10.231 | 0.042 | 86 | 4635 | 0.5005 | 0.5093 | |
| 42 Chloroform | 83 | 10.364 | 10.370 | -0.006 | 82 | 7407 | 0.5005 | 0.2773 | |
| 43 Cyclohexane | 84 | 10.620 | 10.626 | -0.006 | 61 | 7349 | 0.5005 | 0.5013 | |
| 44 1,1,1-Trichloroethane | 97 | 10.642 | 10.642 | 0.000 | 96 | 18158 | 0.5005 | 0.5159 | |
| 45 Carbon tetrachloride | 117 | 10.909 | 10.898 | 0.011 | 96 | 17882 | 0.5005 | 0.4707 | |
| 47 Benzene | 78 | 11.351 | 11.352 | -0.001 | 98 | 18867 | 0.5005 | 0.5184 | |
| 46 Isooctane | 57 | 11.357 | 11.352 | 0.005 | 89 | 27180 | 0.5005 | 0.5286 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 12291 | 0.5005 | 0.5220 | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 82 | 9935 | 0.5005 | 0.5331 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 95 | 1158696 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.648 | 12.617 | 0.031 | 76 | 4849 | 0.5005 | 0.6814 | |
| 53 Trichloroethene | 95 | 12.670 | 12.681 | -0.011 | 95 | 11081 | 0.5005 | 0.5556 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 8586229 | 0.5005 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.214 | 13.220 | -0.006 | 79 | 7707 | 0.5005 | 0.5449 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 93 | 7256 | 0.5005 | 0.4944 | |
| 56 1,4-Dioxane | 88 | 13.476 | 13.454 | 0.022 | 47 | 4467 | 0.5005 | 0.5027 | |
| 57 Dibromomethane | 174 | 13.481 | 13.486 | -0.005 | 92 | 12049 | 0.5005 | 0.5359 | |
| 58 Dichlorobromomethane | 83 | 13.801 | 13.801 | 0.000 | 98 | 18665 | 0.5005 | 0.4926 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 11193832 | 0.5005 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.740 | 14.746 | -0.006 | 96 | 14426 | 0.5005 | 0.5221 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.039 | 15.029 | 0.010 | 94 | 15874 | 0.5005 | 0.5311 | |
| 65 Toluene | 92 | 15.343 | 15.338 | 0.005 | 92 | 17555 | 0.5005 | 0.5155 | |
| 64 n-Octane | 43 | 15.440 | 15.445 | -0.005 | 85 | 17096 | 0.5005 | 0.5804 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.941 | 15.947 | -0.006 | 97 | 14348 | 0.5005 | 0.5054 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 97 | 8690 | 0.5005 | 0.5272 | |
| 68 Tetrachloroethene | 166 | 16.448 | 16.443 | 0.005 | 95 | 16700 | 0.5005 | 0.4855 | |
| 69 2-Hexanone | 43 | 16.774 | 16.763 | 0.011 | 92 | 17056 | 0.5005 | 0.5510 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 98 | 14443 | 0.5005 | 0.3676 | |
| 72 Ethylene Dibromide | 107 | 17.339 | 17.334 | 0.005 | 98 | 15848 | 0.5005 | 0.4821 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 89 | 1239778 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.305 | 18.306 | -0.001 | 96 | 24492 | 0.5005 | 0.5162 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 99 | 41281 | 0.5005 | 0.5202 | |
| 77 n-Nonane | 57 | 18.631 | 18.626 | 0.005 | 85 | 18065 | 0.5005 | 0.5646 | |
| 78 m-Xylene & p-Xylene | 106 | 18.716 | 18.717 | -0.001 | 0 | 30923 | 1.00 | 1.06 | |
| 79 o-Xylene | 106 | 19.554 | 19.549 | 0.005 | 97 | 14456 | 0.5005 | 0.5059 | |
| 80 Styrene | 104 | 19.602 | 19.603 | -0.001 | 98 | 19615 | 0.5005 | 0.4447 | |
| 81 Bromoform | 173 | 20.040 | 20.035 | 0.005 | 93 | 6073 | 0.5005 | 0.1706 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 1.50 | 1.57 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 97 | 45580 | 0.5005 | 0.4998 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.931 | 20.931 | 0.000 | 98 | 22913 | 0.5005 | 0.5418 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 98 | 55041 | 0.5005 | 0.5153 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 95 | 18904 | 0.5005 | 0.5169 | |
| 88 4-Ethyltoluene | 105 | 21.203 | 21.204 | -0.001 | 93 | 46560 | 0.5005 | 0.5222 | |
| 89 2-Chlorotoluene | 91 | 21.209 | 21.204 | 0.005 | 93 | 41307 | 0.5005 | 0.5336 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 95 | 22371 | 0.5005 | 0.5583 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 92 | 40868 | 0.5005 | 0.5084 | |
| 91 Alpha Methyl Styrene | 118 | 21.689 | 21.689 | 0.000 | 87 | 15714 | 0.5005 | 0.4293 | |
| 92 tert-Butylbenzene | 119 | 21.806 | 21.807 | -0.001 | 91 | 38763 | 0.5005 | 0.5068 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 40608 | 0.5005 | 0.5040 | |
| 94 sec-Butylbenzene | 105 | 22.137 | 22.143 | -0.006 | 98 | 57510 | 0.5005 | 0.5184 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 96 | 50688 | 0.5005 | 0.5208 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 99 | 29110 | 0.5005 | 0.5342 | |
| 97 1,4-Dichlorobenzene | 146 | 22.511 | 22.506 | 0.005 | 91 | 29770 | 0.5005 | 0.5383 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 39729 | 0.5005 | 0.5253 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 98 | 48300 | 0.5005 | 0.5438 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 92 | 26945 | 0.5005 | 0.6250 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 94 | 28358 | 0.5005 | 0.5355 | |
| 102 Dodecane | 57 | 24.491 | 24.486 | 0.005 | 93 | 27068 | 0.5005 | 0.6519 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 93 | 28251 | 0.5005 | 0.5927 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 97 | 24014 | 0.5005 | 0.5383 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 58480 | 0.5005 | 0.6217 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.343 | 0.000 | 95 | 26038 | 0.5005 | 0.5887 | |

## QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL2w_00274 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

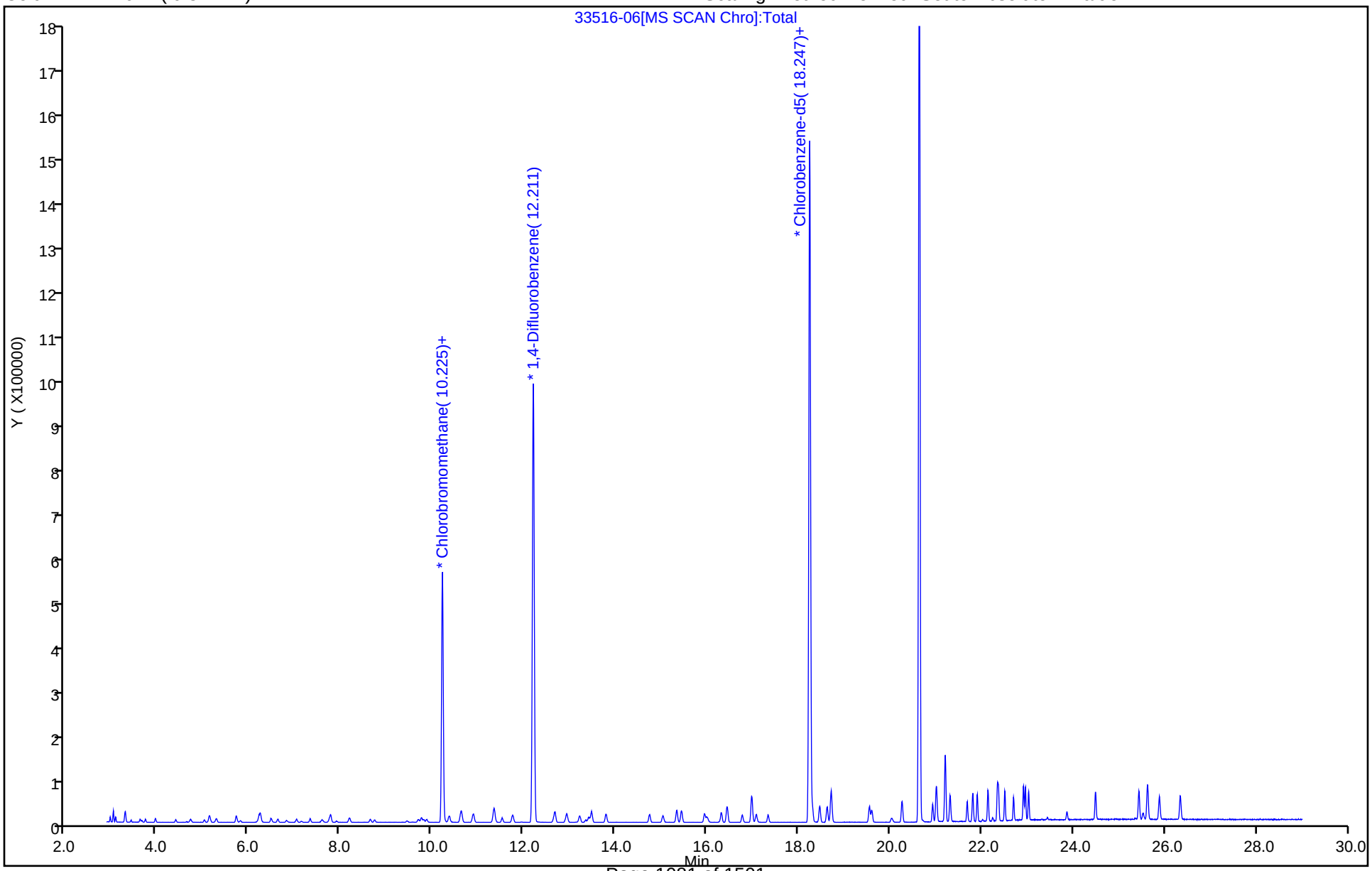
Report Date: 06-Dec-2018 10:38:24 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-06.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 04-Dec-2018 22:37:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 6 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-07.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Dec-2018 23:31:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-007
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:26 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:35:43

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.957 | 2.962 | -0.005 | 93 | 40120 | 4.99 | 4.91 | |
| 2 Dichlorodifluoromethane | 85 | 3.026 | 3.031 | -0.005 | 99 | 191784 | 4.99 | 4.78 | |
| 3 Chlorodifluoromethane | 51 | 3.074 | 3.080 | -0.006 | 98 | 97707 | 4.99 | 4.83 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.282 | 3.288 | -0.006 | 93 | 152873 | 4.99 | 4.87 | |
| 5 Chloromethane | 50 | 3.416 | 3.416 | 0.000 | 98 | 38535 | 4.99 | 5.08 | |
| 6 Butane | 43 | 3.613 | 3.619 | -0.006 | 92 | 55852 | 4.99 | 4.93 | |
| 7 Vinyl chloride | 62 | 3.650 | 3.656 | -0.006 | 99 | 40792 | 4.99 | 4.69 | |
| 8 Butadiene | 54 | 3.725 | 3.731 | -0.006 | 92 | 27371 | 4.99 | 4.73 | |
| 10 Bromomethane | 94 | 4.387 | 4.392 | -0.005 | 97 | 37213 | 4.99 | 4.76 | |
| 11 Chloroethane | 64 | 4.627 | 4.627 | 0.000 | 96 | 16140 | 4.99 | 4.84 | |
| 12 2-Methylbutane | 43 | 4.718 | 4.713 | 0.005 | 83 | 32303 | 4.99 | 4.90 | |
| 13 Vinyl bromide | 106 | 5.017 | 5.022 | -0.005 | 96 | 47876 | 4.99 | 5.04 | |
| 14 Trichlorofluoromethane | 101 | 5.129 | 5.134 | -0.005 | 99 | 185385 | 4.99 | 5.01 | |
| 16 Pentane | 43 | 5.278 | 5.284 | -0.006 | 94 | 68680 | 4.99 | 5.13 | |
| 17 Ethanol | 45 | 5.705 | 5.716 | -0.011 | 98 | 29368 | 10.0 | 9.45 | |
| 18 Ethyl ether | 59 | 5.796 | 5.801 | -0.005 | 95 | 31042 | 4.99 | 5.28 | |
| 19 Acrolein | 56 | 6.159 | 6.159 | 0.000 | 98 | 13168 | 4.99 | 4.84 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.218 | 6.223 | -0.005 | 96 | 121750 | 4.99 | 5.04 | |
| 21 1,1-Dichloroethene | 96 | 6.239 | 6.250 | -0.011 | 94 | 49619 | 4.99 | 5.07 | |
| 22 Acetone | 43 | 6.468 | 6.468 | 0.000 | 100 | 86319 | 4.99 | 5.30 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.629 | -0.006 | 99 | 135390 | 4.99 | 5.01 | |
| 24 Isopropyl alcohol | 45 | 6.794 | 6.794 | 0.000 | 98 | 75584 | 4.99 | 5.28 | |
| 25 3-Chloro-1-propene | 41 | 7.029 | 7.039 | -0.010 | 90 | 41421 | 4.99 | 4.29 | |
| 26 Acetonitrile | 41 | 7.135 | 7.136 | -0.001 | 97 | 27525 | 4.99 | 5.45 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 95 | 57491 | 4.99 | 5.17 | |
| 28 2-Methyl-2-propanol | 59 | 7.568 | 7.573 | -0.005 | 97 | 117012 | 4.99 | 5.41 | |
| 29 Methyl tert-butyl ether | 73 | 7.749 | 7.749 | 0.000 | 94 | 162770 | 4.99 | 5.06 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.781 | 7.787 | -0.006 | 95 | 78901 | 4.99 | 5.43 | |
| 32 Acrylonitrile | 53 | 7.904 | 7.909 | -0.005 | 91 | 28753 | 4.99 | 5.31 | |
| 33 Hexane | 57 | 8.187 | 8.192 | -0.005 | 85 | 64726 | 4.99 | 5.09 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.640 | 8.651 | -0.011 | 98 | 95739 | 4.99 | 5.09 | |
| 35 Vinyl acetate | 43 | 8.731 | 8.737 | -0.006 | 99 | 120405 | 4.99 | 5.29 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.761 | 9.767 | -0.006 | 97 | 57285 | 4.99 | 5.11 | |
| 38 2-Butanone (MEK) | 72 | 9.799 | 9.804 | -0.005 | 100 | 24326 | 4.99 | 5.16 | |
| 39 Ethyl acetate | 88 | 9.873 | 9.873 | 0.000 | 99 | 4448 | 4.99 | 4.93 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 9.99 | 10.5 | |
| * 40 Chlorobromomethane | 128 | 10.220 | 10.226 | -0.006 | 82 | 204902 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.236 | 10.231 | 0.005 | 91 | 51511 | 4.99 | 5.60 | |
| 42 Chloroform | 83 | 10.370 | 10.370 | 0.000 | 98 | 152527 | 4.99 | 5.67 | |
| 43 Cyclohexane | 84 | 10.620 | 10.626 | -0.006 | 76 | 76045 | 4.99 | 5.13 | |
| 44 1,1,1-Trichloroethane | 97 | 10.636 | 10.642 | -0.006 | 95 | 180304 | 4.99 | 5.06 | |
| 45 Carbon tetrachloride | 117 | 10.898 | 10.898 | 0.000 | 97 | 195076 | 4.99 | 5.08 | |
| 47 Benzene | 78 | 11.352 | 11.352 | 0.000 | 98 | 191262 | 4.99 | 5.19 | |
| 46 Isooctane | 57 | 11.346 | 11.352 | -0.006 | 95 | 278322 | 4.99 | 5.35 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 126026 | 4.99 | 5.29 | |
| 49 n-Heptane | 43 | 11.752 | 11.757 | -0.005 | 87 | 103703 | 4.99 | 5.50 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 96 | 1172195 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.622 | 12.617 | 0.005 | 90 | 42071 | 4.99 | 5.84 | |
| 53 Trichloroethene | 95 | 12.680 | 12.681 | -0.001 | 95 | 111956 | 4.99 | 5.55 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 39675677 | 4.99 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.220 | 13.220 | 0.000 | 78 | 81207 | 4.99 | 5.68 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 92 | 80624 | 4.99 | 5.43 | |
| 56 1,4-Dioxane | 88 | 13.460 | 13.454 | 0.006 | 95 | 53417 | 4.99 | 5.94 | |
| 57 Dibromomethane | 174 | 13.481 | 13.486 | -0.005 | 94 | 121482 | 4.99 | 5.34 | |
| 58 Dichlorobromomethane | 83 | 13.796 | 13.801 | -0.005 | 99 | 206792 | 4.99 | 5.39 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 61458023 | 4.99 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 98 | 153729 | 4.99 | 5.50 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.029 | 15.029 | 0.000 | 96 | 180615 | 4.99 | 5.97 | |
| 65 Toluene | 92 | 15.338 | 15.338 | 0.000 | 93 | 177957 | 4.99 | 5.08 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 86 | 175878 | 4.99 | 5.90 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.947 | 15.947 | 0.000 | 97 | 151993 | 4.99 | 5.29 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 98 | 89080 | 4.99 | 5.26 | |
| 68 Tetrachloroethene | 166 | 16.438 | 16.443 | -0.005 | 95 | 172870 | 4.99 | 4.89 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 94 | 177058 | 4.99 | 5.56 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 97 | 208652 | 4.99 | 5.17 | |
| 72 Ethylene Dibromide | 107 | 17.340 | 17.334 | 0.006 | 98 | 174074 | 4.99 | 5.15 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 89 | 1274811 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.306 | 18.306 | 0.000 | 92 | 248172 | 4.99 | 5.09 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 99 | 420763 | 4.99 | 5.16 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 85 | 182495 | 4.99 | 5.55 | |
| 78 m-Xylene & p-Xylene | 106 | 18.711 | 18.717 | -0.006 | 0 | 313774 | 9.99 | 10.5 | |
| 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 98 | 151539 | 4.99 | 5.16 | |
| 80 Styrene | 104 | 19.602 | 19.603 | -0.001 | 99 | 243198 | 4.99 | 5.36 | |
| 81 Bromoform | 173 | 20.035 | 20.035 | 0.000 | 96 | 200186 | 4.99 | 5.47 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 15.0 | 15.6 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 97 | 484356 | 4.99 | 5.17 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.931 | 20.931 | 0.000 | 99 | 233953 | 4.99 | 5.38 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 99 | 571792 | 4.99 | 5.21 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 97 | 203261 | 4.99 | 5.40 | |
| 88 4-Ethyltoluene | 105 | 21.204 | 21.204 | 0.000 | 98 | 476320 | 4.99 | 5.20 | |
| 89 2-Chlorotoluene | 91 | 21.204 | 21.204 | 0.000 | 94 | 416969 | 4.99 | 5.24 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 95 | 234755 | 4.99 | 5.70 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 92 | 418991 | 4.99 | 5.07 | |
| 91 Alpha Methyl Styrene | 118 | 21.689 | 21.689 | 0.000 | 86 | 197131 | 4.99 | 5.24 | |
| 92 tert-Butylbenzene | 119 | 21.807 | 21.807 | 0.000 | 90 | 400063 | 4.99 | 5.09 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 421470 | 4.99 | 5.09 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 98 | 556435 | 4.99 | 4.88 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 97 | 484263 | 4.99 | 4.84 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 98 | 272027 | 4.99 | 4.85 | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 93 | 266050 | 4.99 | 4.68 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 356417 | 4.99 | 4.58 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 98 | 442693 | 4.99 | 4.85 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 92 | 235754 | 4.99 | 5.32 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 95 | 256240 | 4.99 | 4.71 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 94 | 219615 | 4.99 | 5.14 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 95 | 210832 | 4.99 | 4.30 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 97 | 222512 | 4.99 | 4.85 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 395916 | 4.99 | 4.09 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.343 | 0.000 | 96 | 191599 | 4.99 | 4.21 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL3w_00210 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

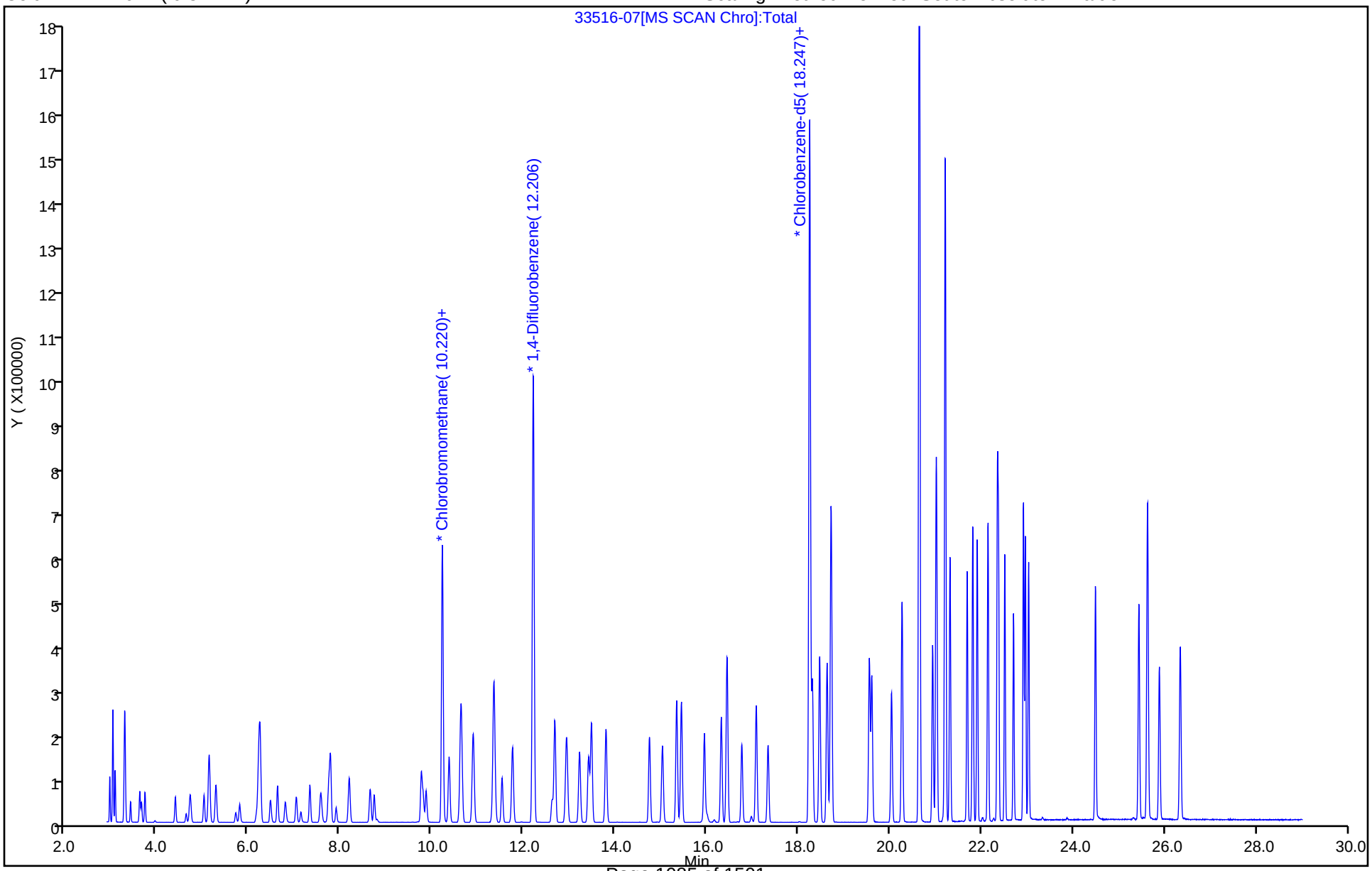
Report Date: 06-Dec-2018 10:38:27 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-07.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 04-Dec-2018 23:31:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 7 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 7 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 05-Dec-2018 00:25:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-008
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:55:29 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: tobere Date: 06-Dec-2018 10:55:28

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.962 | 2.962 | 0.000 | 93 | 78132 | 10.0 | 10.1 | |
| 2 Dichlorodifluoromethane | 85 | 3.031 | 3.031 | 0.000 | 99 | 373195 | 10.0 | 9.86 | |
| 3 Chlorodifluoromethane | 51 | 3.080 | 3.080 | 0.000 | 98 | 195954 | 10.0 | 10.3 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.288 | 3.288 | 0.000 | 93 | 301184 | 10.0 | 10.2 | |
| 5 Chloromethane | 50 | 3.416 | 3.416 | 0.000 | 99 | 71740 | 10.0 | 10.0 | |
| 6 Butane | 43 | 3.619 | 3.619 | 0.000 | 92 | 105508 | 10.0 | 9.89 | |
| 7 Vinyl chloride | 62 | 3.656 | 3.656 | 0.000 | 99 | 77427 | 10.0 | 9.44 | |
| 8 Butadiene | 54 | 3.731 | 3.731 | 0.000 | 94 | 54013 | 10.0 | 9.89 | |
| 10 Bromomethane | 94 | 4.392 | 4.392 | 0.000 | 96 | 72072 | 10.0 | 9.77 | |
| 11 Chloroethane | 64 | 4.627 | 4.627 | 0.000 | 96 | 31405 | 10.0 | 10.0 | |
| 12 2-Methylbutane | 43 | 4.713 | 4.713 | 0.000 | 84 | 62402 | 10.0 | 10.0 | |
| 13 Vinyl bromide | 106 | 5.022 | 5.022 | 0.000 | 97 | 90209 | 10.0 | 10.1 | |
| 14 Trichlorofluoromethane | 101 | 5.134 | 5.134 | 0.000 | 99 | 346021 | 10.0 | 9.91 | |
| 16 Pentane | 43 | 5.284 | 5.284 | 0.000 | 95 | 128322 | 10.0 | 10.2 | |
| 17 Ethanol | 45 | 5.716 | 5.716 | 0.000 | 97 | 53196 | 15.0 | 18.2 | |
| 18 Ethyl ether | 59 | 5.801 | 5.801 | 0.000 | 96 | 56421 | 10.0 | 10.2 | |
| 19 Acrolein | 56 | 6.159 | 6.159 | 0.000 | 99 | 24894 | 10.0 | 9.70 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223 | 6.223 | 0.000 | 95 | 229274 | 10.0 | 10.1 | |
| 21 1,1-Dichloroethene | 96 | 6.250 | 6.250 | 0.000 | 94 | 92119 | 10.0 | 9.99 | |
| 22 Acetone | 43 | 6.468 | 6.468 | 0.000 | 100 | 161089 | 10.0 | 10.5 | |
| 23 Carbon disulfide | 76 | 6.629 | 6.629 | 0.000 | 99 | 254997 | 10.0 | 10.0 | |
| 24 Isopropyl alcohol | 45 | 6.794 | 6.794 | 0.000 | 98 | 146155 | 10.0 | 10.8 | |
| 25 3-Chloro-1-propene | 41 | 7.039 | 7.039 | 0.000 | 87 | 78710 | 10.0 | 8.65 | |
| 26 Acetonitrile | 41 | 7.136 | 7.136 | 0.000 | 96 | 46361 | 10.0 | 9.73 | M |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 94 | 104286 | 10.0 | 9.94 | |
| 28 2-Methyl-2-propanol | 59 | 7.573 | 7.573 | 0.000 | 96 | 218985 | 10.0 | 10.7 | |
| 29 Methyl tert-butyl ether | 73 | 7.749 | 7.749 | 0.000 | 94 | 298270 | 10.0 | 9.83 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.787 | 7.787 | 0.000 | 95 | 145140 | 10.0 | 10.6 | |
| 32 Acrylonitrile | 53 | 7.909 | 7.909 | 0.000 | 90 | 52515 | 10.0 | 10.3 | |
| 33 Hexane | 57 | 8.192 | 8.192 | 0.000 | 86 | 118957 | 10.0 | 9.93 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.651 | 8.651 | 0.000 | 98 | 171683 | 10.0 | 9.68 | |
| 35 Vinyl acetate | 43 | 8.737 | 8.737 | 0.000 | 99 | 218622 | 10.0 | 10.2 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.767 | 9.767 | 0.000 | 96 | 107073 | 10.0 | 10.1 | |
| 38 2-Butanone (MEK) | 72 | 9.804 | 9.804 | 0.000 | 100 | 46650 | 10.0 | 10.5 | |
| 39 Ethyl acetate | 88 | 9.873 | 9.873 | 0.000 | 99 | 8414 | 10.0 | 9.89 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 20.7 | |
| * 40 Chlorobromomethane | 128 | 10.226 | 10.226 | 0.000 | 82 | 193200 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.231 | 10.231 | 0.000 | 57 | 88731 | 10.0 | 10.2 | |
| 42 Chloroform | 83 | 10.370 | 10.370 | 0.000 | 97 | 275892 | 10.0 | 10.9 | |
| 43 Cyclohexane | 84 | 10.626 | 10.626 | 0.000 | 93 | 136701 | 10.0 | 9.75 | |
| 44 1,1,1-Trichloroethane | 97 | 10.642 | 10.642 | 0.000 | 96 | 329581 | 10.0 | 9.79 | |
| 45 Carbon tetrachloride | 117 | 10.898 | 10.898 | 0.000 | 97 | 361014 | 10.0 | 9.94 | |
| 47 Benzene | 78 | 11.352 | 11.352 | 0.000 | 98 | 339283 | 10.0 | 9.75 | |
| 46 Isooctane | 57 | 11.352 | 11.352 | 0.000 | 95 | 494490 | 10.0 | 10.1 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 229565 | 10.0 | 10.2 | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 88 | 183833 | 10.0 | 10.3 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 95 | 1108113 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.617 | 12.617 | 0.000 | 90 | 74864 | 10.0 | 11.0 | |
| 53 Trichloroethene | 95 | 12.681 | 12.681 | 0.000 | 96 | 202790 | 10.0 | 10.6 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 66559083 | 10.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.220 | 13.220 | 0.000 | 78 | 141370 | 10.0 | 10.5 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 91 | 147127 | 10.0 | 10.5 | |
| 56 1,4-Dioxane | 88 | 13.454 | 13.454 | 0.000 | 93 | 94467 | 10.0 | 11.1 | |
| 57 Dibromomethane | 174 | 13.486 | 13.486 | 0.000 | 93 | 219780 | 10.0 | 10.2 | |
| 58 Dichlorobromomethane | 83 | 13.801 | 13.801 | 0.000 | 99 | 375962 | 10.0 | 10.4 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 105422387 | 10.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 98 | 273703 | 10.0 | 10.4 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.029 | 15.029 | 0.000 | 95 | 309044 | 10.0 | 10.8 | |
| 65 Toluene | 92 | 15.338 | 15.338 | 0.000 | 93 | 316227 | 10.0 | 9.76 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 85 | 302866 | 10.0 | 10.8 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.947 | 15.947 | 0.000 | 97 | 274340 | 10.0 | 10.1 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 97 | 156612 | 10.0 | 10.0 | |
| 68 Tetrachloroethene | 166 | 16.443 | 16.443 | 0.000 | 95 | 313637 | 10.0 | 9.59 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 94 | 308503 | 10.0 | 10.5 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 98 | 392091 | 10.0 | 10.5 | |
| 72 Ethylene Dibromide | 107 | 17.334 | 17.334 | 0.000 | 98 | 318526 | 10.0 | 10.2 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 90 | 1179025 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.306 | 18.306 | 0.000 | 92 | 442310 | 10.0 | 9.80 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 99 | 755751 | 10.0 | 10.0 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 90 | 313778 | 10.0 | 10.3 | |
| 78 m-Xylene & p-Xylene | 106 | 18.717 | 18.717 | 0.000 | 0 | 554082 | 20.0 | 20.0 | |
| 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 98 | 267134 | 10.0 | 9.83 | |
| 80 Styrene | 104 | 19.603 | 19.603 | 0.000 | 98 | 436090 | 10.0 | 10.4 | |
| 81 Bromoform | 173 | 20.035 | 20.035 | 0.000 | 96 | 369932 | 10.0 | 10.9 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 29.8 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 97 | 853764 | 10.0 | 9.84 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.931 | 20.931 | 0.000 | 98 | 399283 | 10.0 | 9.93 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 98 | 994548 | 10.0 | 9.79 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 93 | 346539 | 10.0 | 9.96 | |
| 88 4-Ethyltoluene | 105 | 21.204 | 21.204 | 0.000 | 98 | 831544 | 10.0 | 9.81 | |
| 89 2-Chlorotoluene | 91 | 21.204 | 21.204 | 0.000 | 94 | 718532 | 10.0 | 9.76 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 96 | 391427 | 10.0 | 10.3 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 91 | 742159 | 10.0 | 9.71 | |
| 91 Alpha Methyl Styrene | 118 | 21.689 | 21.689 | 0.000 | 86 | 358804 | 10.0 | 10.3 | |
| 92 tert-Butylbenzene | 119 | 21.807 | 21.807 | 0.000 | 90 | 702209 | 10.0 | 9.65 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 744612 | 10.0 | 9.72 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 98 | 1046102 | 10.0 | 9.92 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 96 | 874281 | 10.0 | 9.45 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 98 | 480093 | 10.0 | 9.26 | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 95 | 488365 | 10.0 | 9.29 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 97 | 655100 | 10.0 | 9.11 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 98 | 797934 | 10.0 | 9.45 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 91 | 409303 | 10.0 | 9.98 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 94 | 460441 | 10.0 | 9.14 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 96 | 354099 | 10.0 | 8.97 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 94 | 359994 | 10.0 | 7.94 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 97 | 372421 | 10.0 | 8.78 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 669821 | 10.0 | 7.49 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.343 | 0.000 | 95 | 327403 | 10.0 | 7.78 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL4w_00715 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

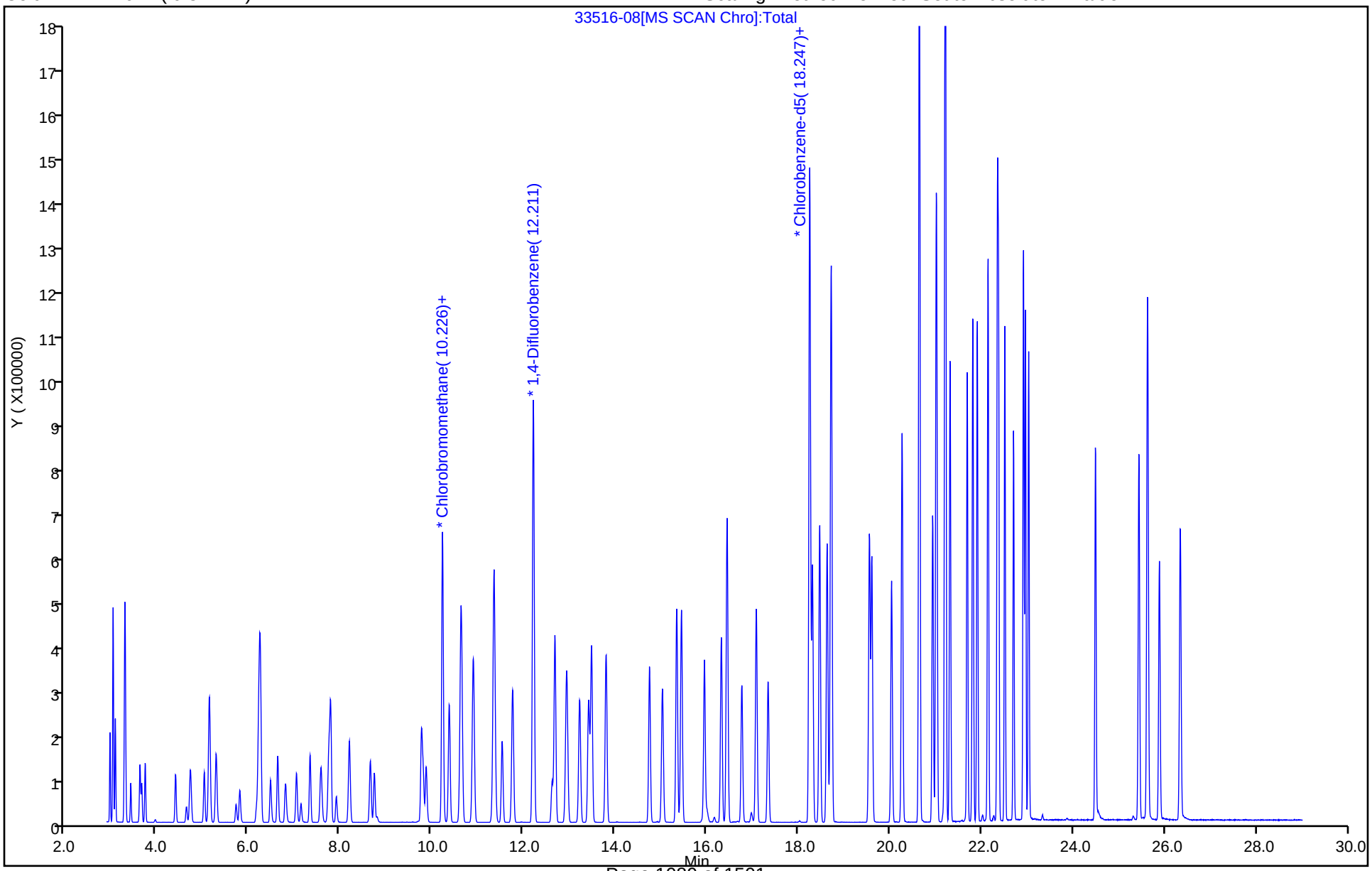
Report Date: 06-Dec-2018 10:55:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 00:25:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | icis | | | Worklist Smp#: | 8 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 8 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Burlington

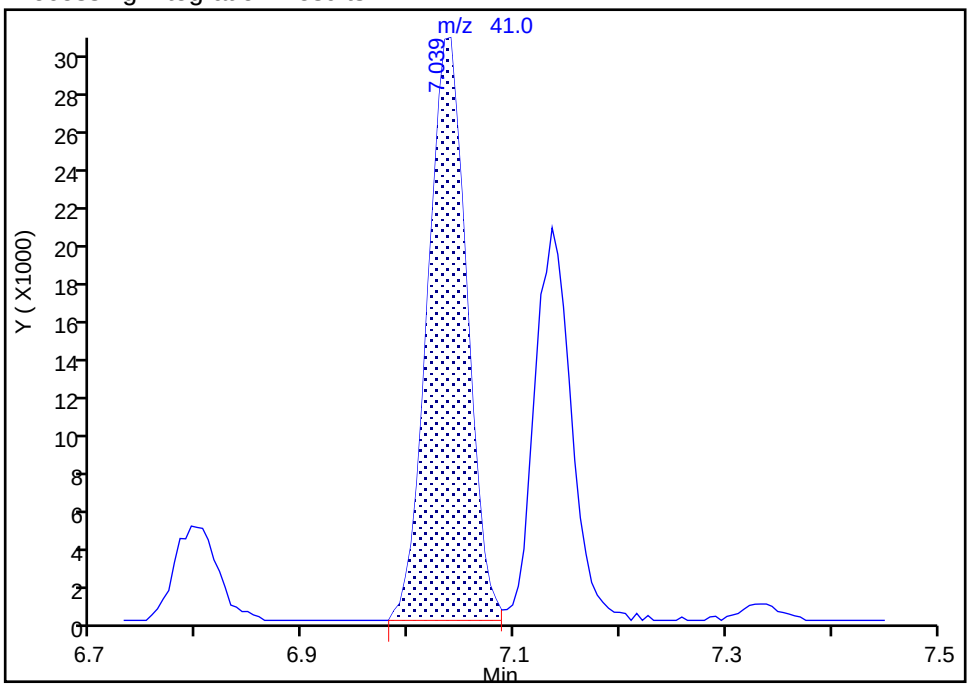
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D | | | | |
| Injection Date: | 05-Dec-2018 00:25:30 | Instrument ID: | CHC.i | | |
| Lims ID: | icis | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 8 | Worklist Smp#: | 8 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 26 Acetonitrile, CAS: 75-05-8

Signal: 1

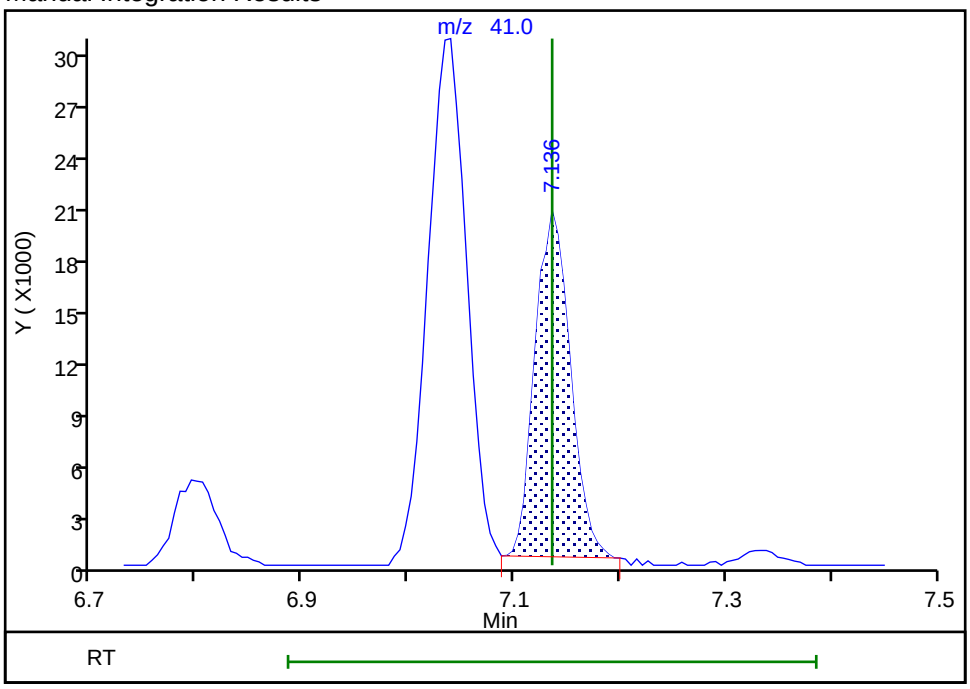
Processing Integration Results

RT: 7.04
Area: 78710
Amount: 8.863533
Amount Units: ppb v/v




Manual Integration Results

RT: 7.14
Area: 46361
Amount: 9.731279
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:15:05

Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

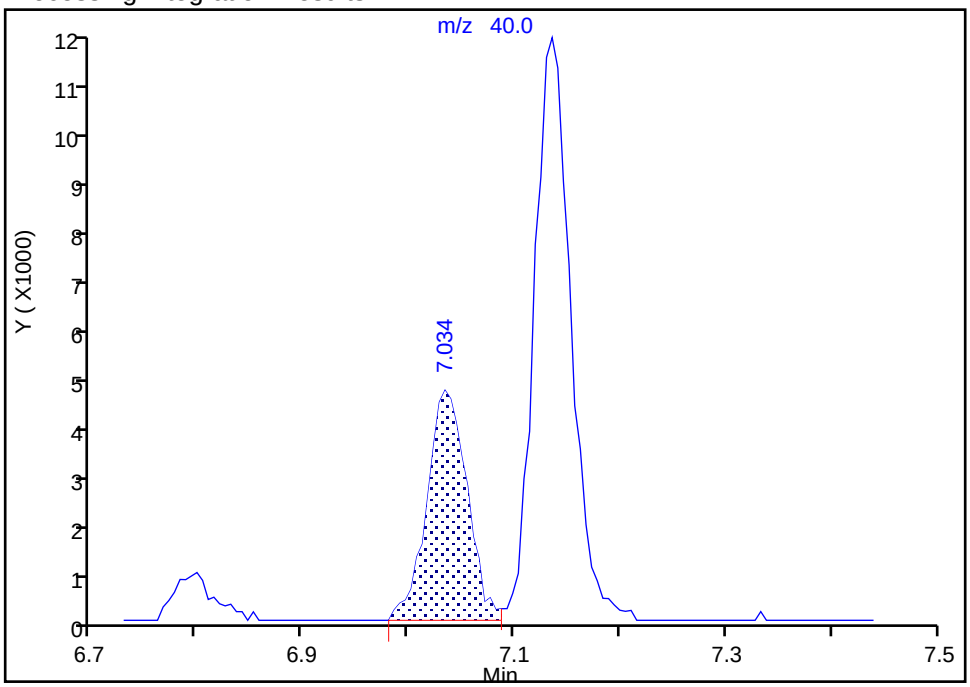
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D | | | | |
| Injection Date: | 05-Dec-2018 00:25:30 | Instrument ID: | CHC.i | | |
| Lims ID: | icis | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 8 | Worklist Smp#: | 8 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 26 Acetonitrile, CAS: 75-05-8

Signal: 2

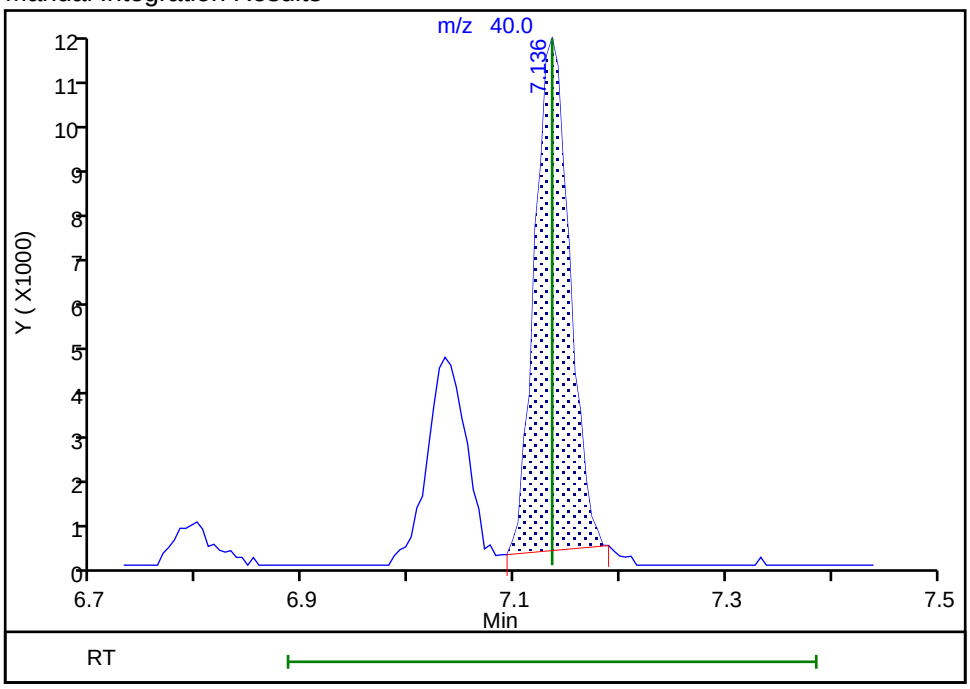
Processing Integration Results

RT: 7.03
Area: 11883
Amount: 8.863533
Amount Units: ppb v/v




Manual Integration Results

RT: 7.14
Area: 25283
Amount: 9.731279
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:15:11

Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

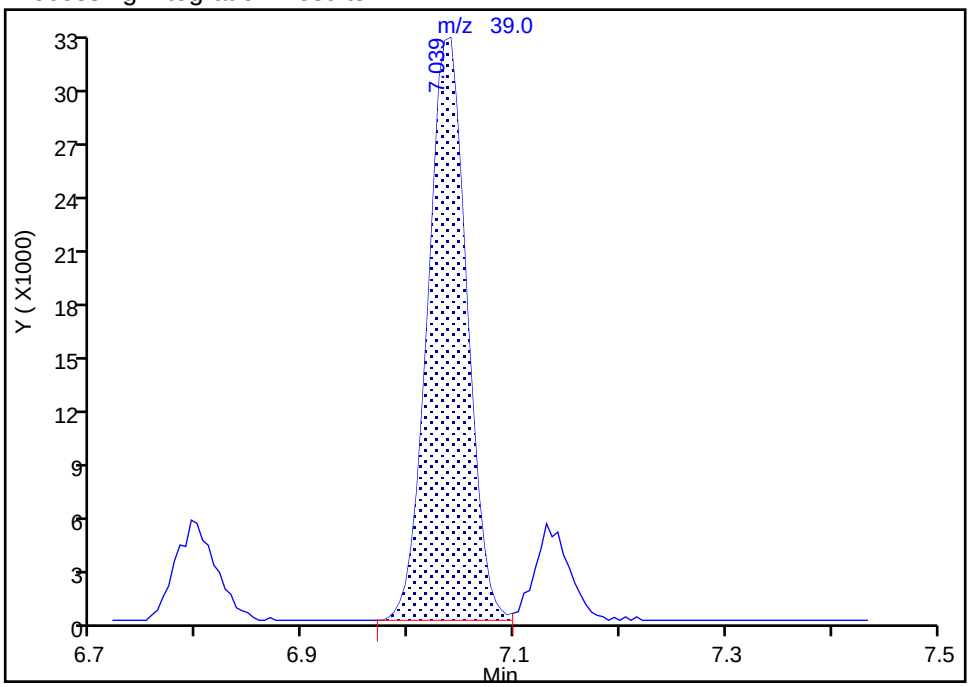
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D | | | | |
| Injection Date: | 05-Dec-2018 00:25:30 | Instrument ID: | CHC.i | | |
| Lims ID: | icis | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 8 | Worklist Smp#: | 8 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 26 Acetonitrile, CAS: 75-05-8

Signal: 3

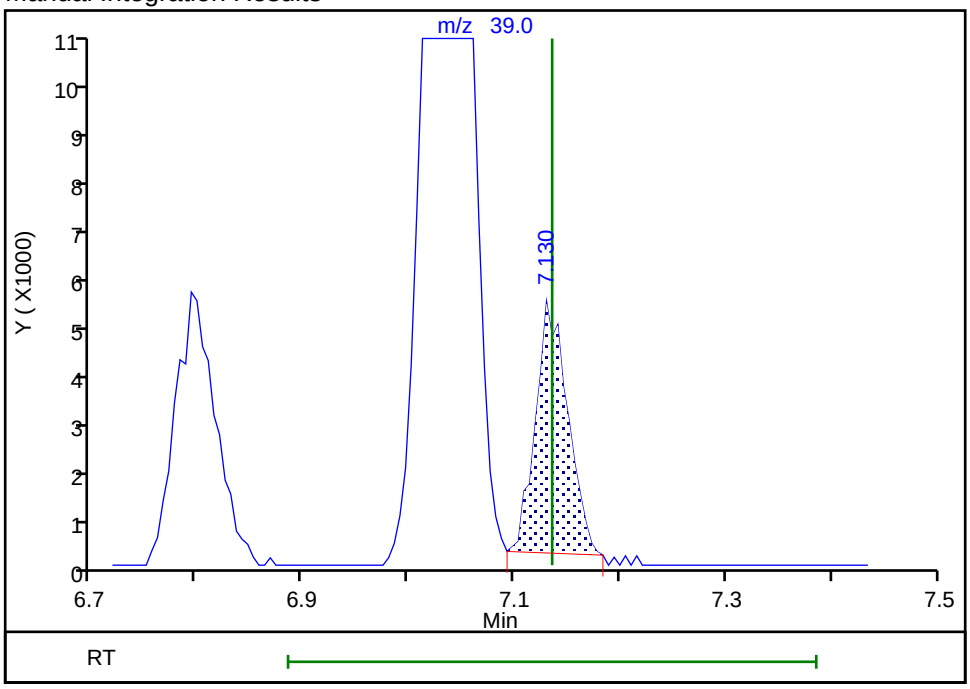
Processing Integration Results

RT: 7.04
Area: 84685
Amount: 8.863533
Amount Units: ppb v/v




Manual Integration Results

RT: 7.13
Area: 10953
Amount: 9.731279
Amount Units: ppb v/v




Reviewer: guazzonig, 05-Dec-2018 10:15:13

Audit Action: Manually Integrated Audit Reason: Wrong peak

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-10.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Dec-2018 02:11:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-010
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:29 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:38:30

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.957 | 2.962 | -0.005 | 94 | 183661 | 20.0 | 18.6 | |
| 2 Dichlorodifluoromethane | 85 | 3.026 | 3.031 | -0.005 | 100 | 975812 | 20.0 | 20.2 | |
| 3 Chlorodifluoromethane | 51 | 3.074 | 3.080 | -0.006 | 98 | 459099 | 20.0 | 18.8 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.282 | 3.288 | -0.006 | 95 | 770362 | 20.0 | 20.3 | |
| 5 Chloromethane | 50 | 3.416 | 3.416 | 0.000 | 99 | 163554 | 20.0 | 17.9 | |
| 6 Butane | 43 | 3.613 | 3.619 | -0.006 | 93 | 249145 | 20.0 | 18.2 | |
| 7 Vinyl chloride | 62 | 3.651 | 3.656 | -0.006 | 100 | 193907 | 20.0 | 18.5 | |
| 8 Butadiene | 54 | 3.731 | 3.731 | 0.000 | 94 | 133309 | 20.0 | 19.1 | |
| 10 Bromomethane | 94 | 4.392 | 4.392 | 0.000 | 97 | 188784 | 20.0 | 20.0 | |
| 11 Chloroethane | 64 | 4.627 | 4.627 | 0.000 | 98 | 76930 | 20.0 | 19.1 | |
| 12 2-Methylbutane | 43 | 4.718 | 4.713 | 0.005 | 84 | 144111 | 20.0 | 18.1 | |
| 13 Vinyl bromide | 106 | 5.017 | 5.022 | -0.005 | 97 | 234754 | 20.0 | 20.5 | |
| 14 Trichlorofluoromethane | 101 | 5.129 | 5.134 | -0.005 | 100 | 900920 | 20.0 | 20.2 | |
| 16 Pentane | 43 | 5.278 | 5.284 | -0.006 | 95 | 284678 | 20.0 | 17.6 | |
| 17 Ethanol | 45 | 5.711 | 5.716 | -0.005 | 97 | 121206 | 40.0 | 32.3 | |
| 18 Ethyl ether | 59 | 5.791 | 5.801 | -0.010 | 96 | 136037 | 20.0 | 19.2 | |
| 19 Acrolein | 56 | 6.154 | 6.159 | -0.005 | 98 | 67540 | 20.0 | 20.6 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.218 | 6.223 | -0.005 | 95 | 601805 | 20.0 | 20.7 | |
| 21 1,1-Dichloroethene | 96 | 6.244 | 6.250 | -0.006 | 96 | 242947 | 20.0 | 20.6 | |
| 22 Acetone | 43 | 6.463 | 6.468 | -0.005 | 100 | 348523 | 20.0 | 17.8 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.629 | -0.006 | 99 | 638037 | 20.0 | 19.6 | |
| 24 Isopropyl alcohol | 45 | 6.794 | 6.794 | 0.000 | 98 | 305384 | 20.0 | 17.7 | |
| 25 3-Chloro-1-propene | 41 | 7.034 | 7.039 | -0.005 | 90 | 228544 | 20.0 | 19.6 | |
| 26 Acetonitrile | 41 | 7.130 | 7.136 | -0.006 | 97 | 106720 | 20.0 | 17.5 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 90 | 231953 | 20.0 | 17.3 | |
| 28 2-Methyl-2-propanol | 59 | 7.568 | 7.573 | -0.005 | 95 | 503562 | 20.0 | 19.3 | |
| 29 Methyl tert-butyl ether | 73 | 7.744 | 7.749 | -0.005 | 94 | 750747 | 20.0 | 19.3 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.781 | 7.787 | -0.006 | 98 | 337899 | 20.0 | 19.3 | |
| 32 Acrylonitrile | 53 | 7.904 | 7.909 | -0.005 | 91 | 120632 | 20.0 | 18.5 | |
| 33 Hexane | 57 | 8.192 | 8.192 | 0.000 | 85 | 276144 | 20.0 | 18.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.651 | 8.651 | 0.000 | 99 | 403537 | 20.0 | 17.8 | |
| 35 Vinyl acetate | 43 | 8.737 | 8.737 | 0.000 | 99 | 477522 | 20.0 | 17.4 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.767 | 9.767 | 0.000 | 94 | 263775 | 20.0 | 19.5 | |
| 38 2-Butanone (MEK) | 72 | 9.799 | 9.804 | -0.005 | 99 | 110295 | 20.0 | 19.4 | |
| 39 Ethyl acetate | 88 | 9.868 | 9.873 | -0.005 | 99 | 21953 | 20.0 | 20.2 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 40.0 | 38.8 | |
| * 40 Chlorobromomethane | 128 | 10.226 | 10.226 | 0.000 | 78 | 247127 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.226 | 10.231 | -0.005 | 78 | 188156 | 20.0 | 18.1 | |
| 42 Chloroform | 83 | 10.370 | 10.370 | 0.000 | 97 | 668594 | 20.0 | 20.6 | |
| 43 Cyclohexane | 84 | 10.621 | 10.626 | -0.006 | 93 | 340758 | 20.0 | 20.4 | |
| 44 1,1,1-Trichloroethane | 97 | 10.637 | 10.642 | -0.005 | 94 | 836640 | 20.0 | 20.8 | |
| 45 Carbon tetrachloride | 117 | 10.898 | 10.898 | 0.000 | 99 | 940985 | 20.0 | 21.7 | |
| 47 Benzene | 78 | 11.352 | 11.352 | 0.000 | 97 | 791829 | 20.0 | 19.1 | |
| 46 Isooctane | 57 | 11.352 | 11.352 | 0.000 | 94 | 1066847 | 20.0 | 18.2 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 515881 | 20.0 | 19.2 | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 82 | 367160 | 20.0 | 17.3 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 94 | 1321482 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.611 | 12.617 | -0.006 | 88 | 123565 | 20.0 | 15.2 | |
| 53 Trichloroethene | 95 | 12.681 | 12.681 | 0.000 | 98 | 417376 | 20.0 | 18.3 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 132050587 | 20.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.220 | 13.220 | 0.000 | 76 | 245294 | 20.0 | 15.2 | |
| 55 Methyl methacrylate | 69 | 13.412 | 13.417 | -0.005 | 93 | 279467 | 20.0 | 16.7 | |
| 56 1,4-Dioxane | 88 | 13.454 | 13.454 | 0.000 | 89 | 164480 | 20.0 | 16.2 | |
| 57 Dibromomethane | 174 | 13.486 | 13.486 | 0.000 | 90 | 476369 | 20.0 | 18.6 | |
| 58 Dichlorobromomethane | 83 | 13.796 | 13.801 | -0.005 | 99 | 766328 | 20.0 | 17.7 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 222603455 | 20.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 96 | 508664 | 20.0 | 16.1 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.029 | 15.029 | 0.000 | 91 | 474528 | 20.0 | 13.9 | |
| 65 Toluene | 92 | 15.344 | 15.338 | 0.006 | 93 | 618088 | 20.0 | 18.9 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 80 | 447614 | 20.0 | 13.3 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.947 | 15.947 | 0.000 | 97 | 533152 | 20.0 | 16.5 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 96 | 281962 | 20.0 | 17.8 | |
| 68 Tetrachloroethene | 166 | 16.443 | 16.443 | 0.000 | 95 | 687003 | 20.0 | 20.8 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 96 | 476488 | 20.0 | 16.1 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 97 | 861591 | 20.0 | 22.9 | |
| 72 Ethylene Dibromide | 107 | 17.340 | 17.334 | 0.006 | 98 | 637056 | 20.0 | 20.2 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 87 | 1188176 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.306 | 18.306 | 0.000 | 97 | 894731 | 20.0 | 19.7 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 99 | 1480573 | 20.0 | 19.5 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 77 | 506409 | 20.0 | 16.5 | |
| 78 m-Xylene & p-Xylene | 106 | 18.717 | 18.717 | 0.000 | 0 | 1118155 | 40.0 | 40.0 | |
| 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 98 | 549528 | 20.0 | 20.1 | |
| 80 Styrene | 104 | 19.603 | 19.603 | 0.000 | 99 | 910973 | 20.0 | 21.5 | |
| 81 Bromoform | 173 | 20.035 | 20.035 | 0.000 | 97 | 927546 | 20.0 | 27.2 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 60.0 | 60.0 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 97 | 1820859 | 20.0 | 20.8 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.931 | 20.931 | 0.000 | 97 | 732639 | 20.0 | 18.1 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 99 | 2015322 | 20.0 | 19.7 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 92 | 652377 | 20.0 | 18.6 | |
| 88 4-Ethyltoluene | 105 | 21.204 | 21.204 | 0.000 | 98 | 1755164 | 20.0 | 20.5 | |
| 89 2-Chlorotoluene | 91 | 21.209 | 21.204 | 0.005 | 96 | 1480596 | 20.0 | 20.0 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 97 | 656647 | 20.0 | 17.1 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.316 | 21.310 | 0.006 | 92 | 1622679 | 20.0 | 21.1 | |
| 91 Alpha Methyl Styrene | 118 | 21.689 | 21.689 | 0.000 | 88 | 801321 | 20.0 | 22.8 | |
| 92 tert-Butylbenzene | 119 | 21.812 | 21.807 | 0.005 | 91 | 1572453 | 20.0 | 21.5 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 1649622 | 20.0 | 21.4 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 98 | 2248832 | 20.0 | 21.2 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 97 | 2052359 | 20.0 | 22.0 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 98 | 1148123 | 20.0 | 22.0 | |
| 97 1,4-Dichlorobenzene | 146 | 22.511 | 22.506 | 0.005 | 96 | 1197052 | 20.0 | 22.6 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 1586450 | 20.0 | 21.9 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 97 | 1789576 | 20.0 | 21.0 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 88 | 764357 | 20.0 | 18.5 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 96 | 1139661 | 20.0 | 22.5 | |
| 102 Dodecane | 57 | 24.491 | 24.486 | 0.005 | 93 | 782239 | 20.0 | 19.7 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 95 | 1061588 | 20.0 | 23.2 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 97 | 1041566 | 20.0 | 24.4 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 2105636 | 20.0 | 23.4 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.343 | 0.000 | 96 | 1020377 | 20.0 | 24.1 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL6w_00161 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

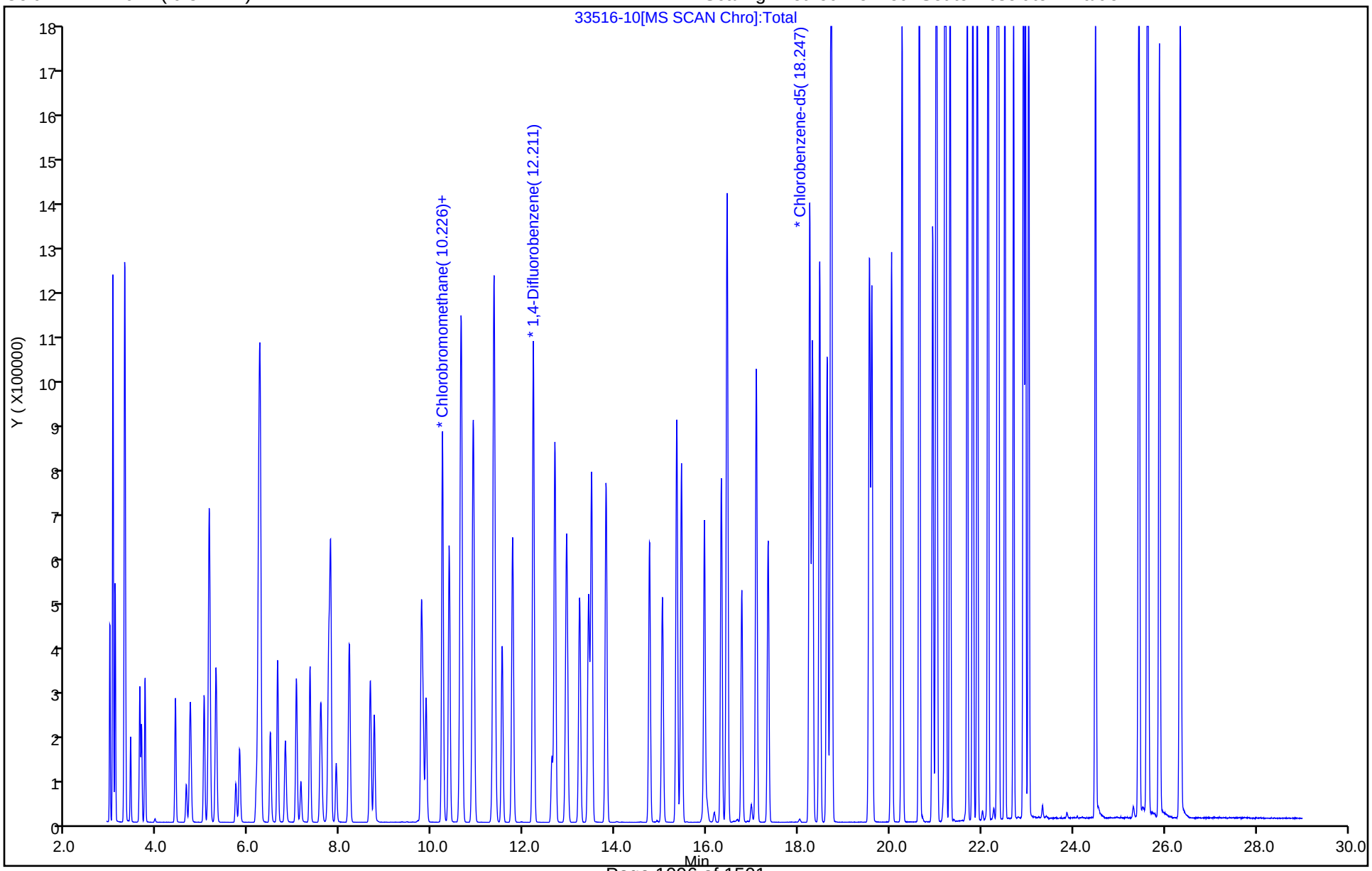
Report Date: 06-Dec-2018 10:38:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-10.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 02:11:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 10 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 10 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-11.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Dec-2018 03:05:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-011
Misc. Info.: ic
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:32 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:39:03

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.957 | 2.962 | -0.005 | 93 | 338523 | 40.0 | 47.4 | |
| 2 Dichlorodifluoromethane | 85 | 3.026 | 3.031 | -0.005 | 99 | 1548930 | 40.0 | 44.2 | |
| 3 Chlorodifluoromethane | 51 | 3.074 | 3.080 | -0.006 | 98 | 829410 | 40.0 | 46.9 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.282 | 3.288 | -0.006 | 97 | 1265554 | 40.0 | 46.1 | |
| 5 Chloromethane | 50 | 3.410 | 3.416 | -0.006 | 98 | 303685 | 40.0 | 45.8 | |
| 6 Butane | 43 | 3.613 | 3.619 | -0.006 | 93 | 478309 | 40.0 | 48.4 | |
| 7 Vinyl chloride | 62 | 3.650 | 3.656 | -0.006 | 100 | 355193 | 40.0 | 46.7 | |
| 8 Butadiene | 54 | 3.725 | 3.731 | -0.006 | 91 | 239908 | 40.0 | 47.4 | |
| 10 Bromomethane | 94 | 4.392 | 4.392 | 0.000 | 97 | 297544 | 40.0 | 43.5 | |
| 11 Chloroethane | 64 | 4.627 | 4.627 | 0.000 | 97 | 128975 | 40.0 | 44.3 | |
| 12 2-Methylbutane | 43 | 4.718 | 4.713 | 0.005 | 83 | 257961 | 40.0 | 44.8 | |
| 13 Vinyl bromide | 106 | 5.017 | 5.022 | -0.005 | 97 | 352157 | 40.0 | 42.5 | |
| 14 Trichlorofluoromethane | 101 | 5.129 | 5.134 | -0.005 | 95 | 1347843 | 40.0 | 41.7 | |
| 16 Pentane | 43 | 5.278 | 5.284 | -0.006 | 94 | 502063 | 40.0 | 42.9 | |
| 17 Ethanol | 45 | 5.716 | 5.716 | 0.000 | 97 | 251010 | 100.0 | 92.4 | |
| 18 Ethyl ether | 59 | 5.790 | 5.801 | -0.011 | 96 | 224061 | 40.0 | 43.6 | |
| 19 Acrolein | 56 | 6.159 | 6.159 | 0.000 | 100 | 96223 | 40.0 | 40.5 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223 | 6.223 | 0.000 | 95 | 884673 | 40.0 | 41.9 | |
| 21 1,1-Dichloroethene | 96 | 6.249 | 6.250 | -0.001 | 94 | 363259 | 40.0 | 42.5 | |
| 22 Acetone | 43 | 6.463 | 6.468 | -0.005 | 100 | 637834 | 40.0 | 44.9 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.629 | -0.006 | 99 | 1028723 | 40.0 | 43.6 | |
| 24 Isopropyl alcohol | 45 | 6.794 | 6.794 | 0.000 | 98 | 535918 | 40.0 | 42.9 | |
| 25 3-Chloro-1-propene | 41 | 7.034 | 7.039 | -0.005 | 87 | 390281 | 40.0 | 46.3 | |
| 26 Acetonitrile | 41 | 7.135 | 7.136 | -0.001 | 96 | 204287 | 40.0 | 46.3 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 93 | 432121 | 40.0 | 44.4 | |
| 28 2-Methyl-2-propanol | 59 | 7.573 | 7.573 | 0.000 | 96 | 862047 | 40.0 | 45.6 | |
| 29 Methyl tert-butyl ether | 73 | 7.744 | 7.749 | -0.005 | 94 | 1237573 | 40.0 | 44.0 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.786 | 7.787 | -0.001 | 94 | 602086 | 40.0 | 47.4 | |
| 32 Acrylonitrile | 53 | 7.904 | 7.909 | -0.005 | 89 | 220822 | 40.0 | 46.6 | |
| 33 Hexane | 57 | 8.187 | 8.192 | -0.005 | 86 | 491598 | 40.0 | 44.3 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.651 | 8.651 | 0.000 | 99 | 709019 | 40.0 | 43.2 | |
| 35 Vinyl acetate | 43 | 8.736 | 8.737 | -0.001 | 99 | 909438 | 40.0 | 45.7 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.766 | 9.767 | -0.001 | 97 | 404741 | 40.0 | 41.4 | |
| 38 2-Butanone (MEK) | 72 | 9.798 | 9.804 | -0.006 | 100 | 177285 | 40.0 | 43.0 | |
| 39 Ethyl acetate | 88 | 9.868 | 9.873 | -0.005 | 99 | 32414 | 40.0 | 41.1 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 80.0 | 88.8 | |
| * 40 Chlorobromomethane | 128 | 10.225 | 10.226 | -0.001 | 92 | 179023 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.225 | 10.231 | -0.006 | 89 | 342749 | 40.0 | 43.4 | |
| 42 Chloroform | 83 | 10.375 | 10.370 | 0.005 | 97 | 1067701 | 40.0 | 45.4 | |
| 43 Cyclohexane | 84 | 10.626 | 10.626 | 0.000 | 93 | 517454 | 40.0 | 40.7 | |
| 44 1,1,1-Trichloroethane | 97 | 10.642 | 10.642 | 0.000 | 97 | 1253876 | 40.0 | 41.1 | |
| 45 Carbon tetrachloride | 117 | 10.898 | 10.898 | 0.000 | 97 | 1389719 | 40.0 | 42.2 | |
| 47 Benzene | 78 | 11.351 | 11.352 | -0.001 | 97 | 1257023 | 40.0 | 39.8 | |
| 46 Isooctane | 57 | 11.351 | 11.352 | -0.001 | 94 | 1844481 | 40.0 | 41.4 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 896698 | 40.0 | 43.9 | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 84 | 670147 | 40.0 | 41.5 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 96 | 1005047 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.616 | 12.617 | -0.001 | 90 | 260420 | 40.0 | 42.2 | |
| 53 Trichloroethene | 95 | 12.680 | 12.681 | -0.001 | 94 | 739449 | 40.0 | 42.7 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 225061449 | 40.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.219 | 13.220 | -0.001 | 78 | 514142 | 40.0 | 41.9 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 90 | 543057 | 40.0 | 42.7 | |
| 56 1,4-Dioxane | 88 | 13.454 | 13.454 | 0.000 | 94 | 285135 | 40.0 | 37.0 | |
| 57 Dibromomethane | 174 | 13.486 | 13.486 | 0.000 | 95 | 746998 | 40.0 | 38.3 | |
| 58 Dichlorobromomethane | 83 | 13.801 | 13.801 | 0.000 | 99 | 1428428 | 40.0 | 43.5 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 368841215 | 40.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.751 | 14.746 | 0.005 | 97 | 1010979 | 40.0 | 42.2 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.034 | 15.029 | 0.005 | 95 | 1120439 | 40.0 | 43.2 | |
| 65 Toluene | 92 | 15.343 | 15.338 | 0.005 | 92 | 1115194 | 40.0 | 42.1 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 83 | 1026410 | 40.0 | 40.2 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.947 | 15.947 | 0.000 | 96 | 1039824 | 40.0 | 42.2 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 97 | 566609 | 40.0 | 44.2 | |
| 68 Tetrachloroethene | 166 | 16.443 | 16.443 | 0.000 | 93 | 1070634 | 40.0 | 40.1 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 94 | 1022749 | 40.0 | 42.5 | |
| 71 Chlorodibromomethane | 129 | 17.083 | 17.078 | 0.005 | 97 | 1372441 | 40.0 | 45.0 | |
| 72 Ethylene Dibromide | 107 | 17.340 | 17.334 | 0.006 | 98 | 1091151 | 40.0 | 42.7 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 90 | 963327 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.311 | 18.306 | 0.005 | 91 | 1452074 | 40.0 | 39.4 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 100 | 2503713 | 40.0 | 40.6 | |
| 77 n-Nonane | 57 | 18.631 | 18.626 | 0.005 | 80 | 977867 | 40.0 | 39.3 | |
| 78 m-Xylene & p-Xylene | 106 | 18.722 | 18.717 | 0.005 | 0 | 1733725 | 80.0 | 76.5 | |
| 79 o-Xylene | 106 | 19.554 | 19.549 | 0.005 | 97 | 870502 | 40.0 | 39.2 | |
| 80 Styrene | 104 | 19.608 | 19.603 | 0.005 | 98 | 1457895 | 40.0 | 42.5 | |
| 81 Bromoform | 173 | 20.040 | 20.035 | 0.005 | 95 | 1306364 | 40.0 | 47.2 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 120.0 | 115.7 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 97 | 2895157 | 40.0 | 40.9 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.937 | 20.931 | 0.006 | 98 | 1358266 | 40.0 | 41.3 | |
| 85 N-Propylbenzene | 91 | 21.011 | 21.006 | 0.005 | 97 | 3349697 | 40.0 | 40.4 | |
| 86 1,2,3-Trichloropropane | 75 | 21.027 | 21.022 | 0.005 | 96 | 1164806 | 40.0 | 41.0 | |
| 88 4-Ethyltoluene | 105 | 21.203 | 21.204 | -0.001 | 98 | 2648660 | 40.0 | 38.2 | |
| 89 2-Chlorotoluene | 91 | 21.209 | 21.204 | 0.005 | 93 | 2340683 | 40.0 | 38.9 | |
| 87 n-Decane | 57 | 21.219 | 21.214 | 0.005 | 97 | 1204762 | 40.0 | 38.7 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.315 | 21.310 | 0.005 | 90 | 2556603 | 40.0 | 40.9 | |
| 91 Alpha Methyl Styrene | 118 | 21.689 | 21.689 | 0.000 | 84 | 1209673 | 40.0 | 42.5 | |
| 92 tert-Butylbenzene | 119 | 21.812 | 21.807 | 0.005 | 89 | 2334361 | 40.0 | 39.3 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 2531358 | 40.0 | 40.4 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 98 | 3506044 | 40.0 | 40.7 | |
| 95 4-Isopropyltoluene | 119 | 22.351 | 22.346 | 0.005 | 96 | 2940752 | 40.0 | 38.9 | |
| 96 1,3-Dichlorobenzene | 146 | 22.378 | 22.372 | 0.006 | 98 | 1592079 | 40.0 | 37.6 | |
| 97 1,4-Dichlorobenzene | 146 | 22.511 | 22.506 | 0.005 | 92 | 1674467 | 40.0 | 39.0 | |
| 98 Benzyl chloride | 91 | 22.703 | 22.698 | 0.005 | 97 | 2529649 | 40.0 | 43.0 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 97 | 2811172 | 40.0 | 40.7 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 90 | 1422378 | 40.0 | 42.5 | |
| 101 1,2-Dichlorobenzene | 146 | 23.034 | 23.029 | 0.005 | 93 | 1598700 | 40.0 | 38.9 | |
| 102 Dodecane | 57 | 24.491 | 24.486 | 0.005 | 92 | 1494633 | 40.0 | 46.3 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.441 | 25.436 | 0.005 | 94 | 1445145 | 40.0 | 39.0 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 96 | 1308418 | 40.0 | 37.7 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 3002555 | 40.0 | 41.1 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.343 | 0.000 | 96 | 1347310 | 40.0 | 39.2 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL7w_00080 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

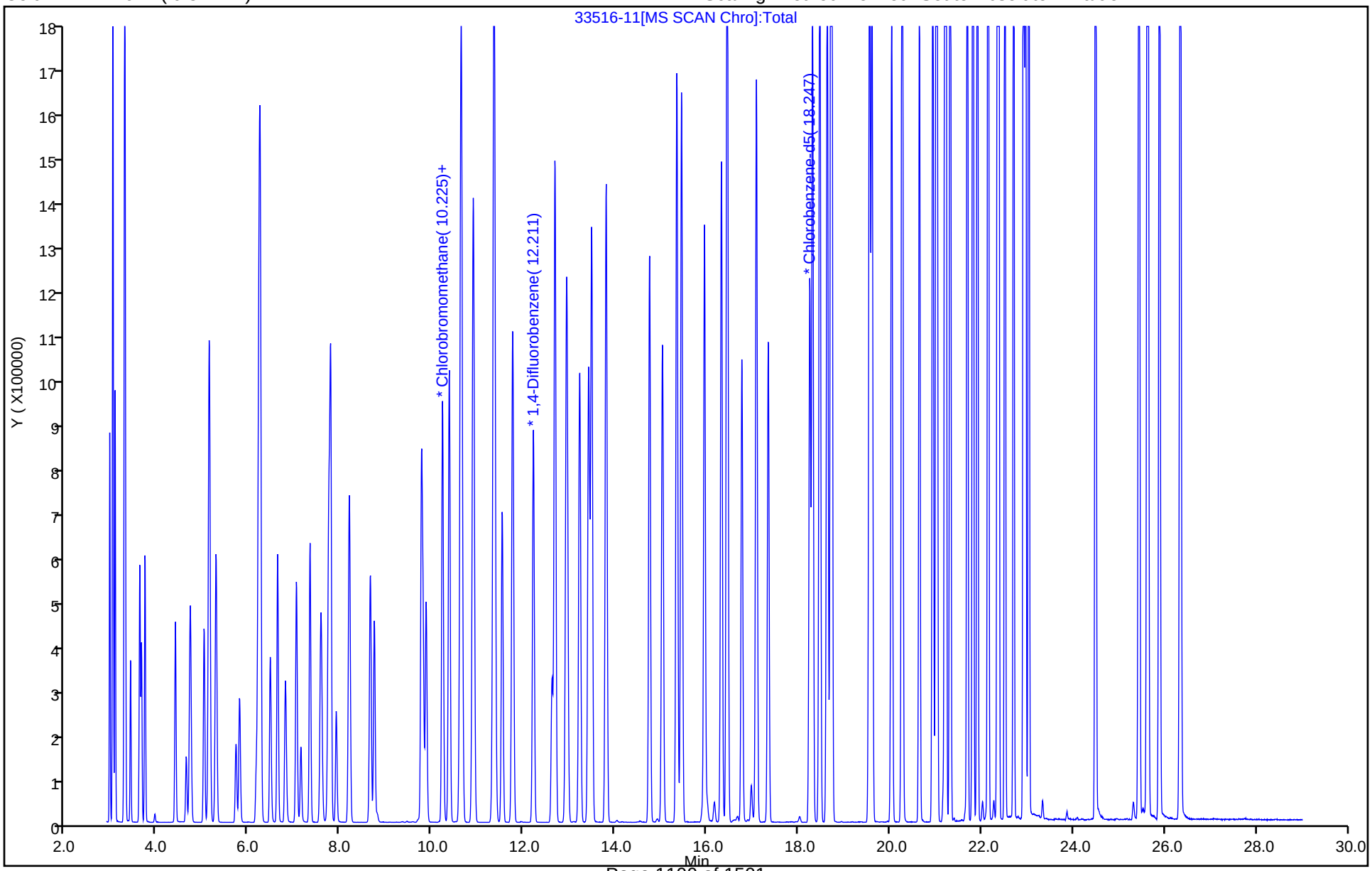
Report Date: 06-Dec-2018 10:38:32 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-11.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 03:05:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 11 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 11 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Dec-2018 09:17:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-018
Misc. Info.: viblk
Operator ID: ert Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:38:35 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:13:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.957 | 2.962 | -0.005 | 93 | 135773 | 15.0 | 13.2 | |
| 2 Dichlorodifluoromethane | 85 | 3.026 | 3.031 | -0.005 | 100 | 742431 | 15.0 | 14.7 | |
| 3 Chlorodifluoromethane | 51 | 3.074 | 3.080 | -0.006 | 98 | 353414 | 15.0 | 13.9 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.282 | 3.288 | -0.006 | 91 | 580527 | 15.0 | 14.7 | |
| 5 Chloromethane | 50 | 3.410 | 3.416 | -0.006 | 99 | 135157 | 15.0 | 14.2 | |
| 6 Butane | 43 | 3.613 | 3.619 | -0.006 | 93 | 194189 | 15.0 | 13.7 | |
| 7 Vinyl chloride | 62 | 3.651 | 3.656 | -0.005 | 100 | 155251 | 15.0 | 14.2 | |
| 8 Butadiene | 54 | 3.725 | 3.731 | -0.006 | 96 | 103014 | 15.0 | 14.2 | |
| 10 Bromomethane | 94 | 4.392 | 4.392 | 0.000 | 97 | 148131 | 15.0 | 15.1 | |
| 11 Chloroethane | 64 | 4.627 | 4.627 | 0.000 | 97 | 61945 | 15.0 | 14.8 | |
| 12 2-Methylbutane | 43 | 4.718 | 4.713 | 0.005 | 83 | 117676 | 15.0 | 14.2 | |
| 13 Vinyl bromide | 106 | 5.022 | 5.022 | 0.000 | 98 | 187028 | 15.0 | 15.7 | |
| 14 Trichlorofluoromethane | 101 | 5.129 | 5.134 | -0.005 | 100 | 701445 | 15.0 | 15.1 | |
| 16 Pentane | 43 | 5.278 | 5.284 | -0.006 | 95 | 232201 | 15.0 | 13.8 | |
| 17 Ethanol | 45 | 5.705 | 5.716 | -0.011 | 97 | 96408 | 30.0 | 24.7 | |
| 18 Ethyl ether | 59 | 5.796 | 5.801 | -0.005 | 95 | 108406 | 15.0 | 14.7 | |
| 19 Acrolein | 56 | 6.154 | 6.159 | -0.005 | 99 | 52251 | 15.0 | 15.3 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.218 | 6.223 | -0.005 | 96 | 467170 | 15.0 | 15.4 | |
| 21 1,1-Dichloroethene | 96 | 6.250 | 6.250 | 0.000 | 97 | 186607 | 15.0 | 15.2 | |
| 22 Acetone | 43 | 6.463 | 6.468 | -0.005 | 100 | 269071 | 15.0 | 13.2 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.629 | -0.006 | 99 | 492645 | 15.0 | 14.5 | |
| 24 Isopropyl alcohol | 45 | 6.789 | 6.794 | -0.005 | 98 | 243497 | 15.0 | 13.5 | |
| 25 3-Chloro-1-propene | 41 | 7.034 | 7.039 | -0.005 | 89 | 185045 | 15.0 | 15.3 | |
| 26 Acetonitrile | 41 | 7.130 | 7.136 | -0.006 | 96 | 85917 | 15.0 | 13.5 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 90 | 189492 | 15.0 | 13.6 | |
| 28 2-Methyl-2-propanol | 59 | 7.568 | 7.573 | -0.005 | 95 | 403367 | 15.0 | 14.8 | |
| 29 Methyl tert-butyl ether | 73 | 7.744 | 7.749 | -0.005 | 94 | 604271 | 15.0 | 15.0 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.781 | 7.787 | -0.006 | 97 | 275012 | 15.0 | 15.1 | |
| 32 Acrylonitrile | 53 | 7.909 | 7.909 | 0.000 | 92 | 99257 | 15.0 | 14.6 | |
| 33 Hexane | 57 | 8.192 | 8.192 | 0.000 | 87 | 230443 | 15.0 | 14.4 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.646 | 8.651 | -0.005 | 99 | 333661 | 15.0 | 14.1 | |
| 35 Vinyl acetate | 43 | 8.737 | 8.737 | 0.000 | 99 | 389315 | 15.0 | 13.6 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.767 | 9.767 | 0.000 | 93 | 213392 | 15.0 | 15.2 | |
| 38 2-Butanone (MEK) | 72 | 9.799 | 9.804 | -0.005 | 99 | 89425 | 15.0 | 15.1 | |
| 39 Ethyl acetate | 88 | 9.863 | 9.873 | -0.010 | 99 | 16754 | 15.0 | 14.8 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 30.0 | 30.2 | |
| * 40 Chlorobromomethane | 128 | 10.226 | 10.226 | 0.000 | 78 | 257391 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.226 | 10.231 | -0.005 | 80 | 155299 | 15.0 | 13.0 | |
| 42 Chloroform | 83 | 10.375 | 10.370 | 0.005 | 97 | 530415 | 15.0 | 15.7 | |
| 43 Cyclohexane | 84 | 10.626 | 10.626 | 0.000 | 94 | 277247 | 15.0 | 14.4 | |
| 44 1,1,1-Trichloroethane | 97 | 10.637 | 10.642 | -0.005 | 95 | 653795 | 15.0 | 14.2 | |
| 45 Carbon tetrachloride | 117 | 10.893 | 10.898 | -0.005 | 99 | 730608 | 15.0 | 14.7 | |
| 47 Benzene | 78 | 11.346 | 11.352 | -0.006 | 97 | 666007 | 15.0 | 13.9 | |
| 46 Isooctane | 57 | 11.346 | 11.352 | -0.006 | 95 | 913248 | 15.0 | 13.5 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 420858 | 15.0 | 13.6 | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 83 | 316237 | 15.0 | 12.9 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 94 | 1520634 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.617 | 12.617 | 0.000 | 89 | 127843 | 15.0 | 13.7 | |
| 53 Trichloroethene | 95 | 12.681 | 12.681 | 0.000 | 97 | 403455 | 15.0 | 15.4 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 124034175 | 15.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.220 | 13.220 | 0.000 | 81 | 264609 | 15.0 | 14.3 | |
| 55 Methyl methacrylate | 69 | 13.412 | 13.417 | -0.005 | 94 | 281284 | 15.0 | 14.6 | |
| 56 1,4-Dioxane | 88 | 13.449 | 13.454 | -0.005 | 90 | 168068 | 15.0 | 14.4 | |
| 57 Dibromomethane | 174 | 13.487 | 13.486 | 0.000 | 91 | 444345 | 15.0 | 15.1 | |
| 58 Dichlorobromomethane | 83 | 13.796 | 13.801 | -0.005 | 98 | 727333 | 15.0 | 14.6 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 205790198 | 15.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 96 | 527316 | 15.0 | 14.5 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.029 | 15.029 | 0.000 | 93 | 519855 | 15.0 | 13.3 | |
| 65 Toluene | 92 | 15.344 | 15.338 | 0.006 | 93 | 640559 | 15.0 | 14.7 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 81 | 507202 | 15.0 | 13.1 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.947 | 15.947 | 0.000 | 98 | 533981 | 15.0 | 14.3 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 98 | 301118 | 15.0 | 14.3 | |
| 68 Tetrachloroethene | 166 | 16.443 | 16.443 | 0.000 | 96 | 666530 | 15.0 | 15.2 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 97 | 516103 | 15.0 | 13.0 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 97 | 819337 | 15.0 | 16.3 | |
| 72 Ethylene Dibromide | 107 | 17.334 | 17.334 | 0.000 | 98 | 637924 | 15.0 | 15.2 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 87 | 1584693 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.306 | 18.306 | 0.000 | 94 | 909948 | 15.0 | 15.0 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 99 | 1508352 | 15.0 | 14.9 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 79 | 553372 | 15.0 | 13.5 | |
| 78 m-Xylene & p-Xylene | 106 | 18.717 | 18.717 | 0.000 | 0 | 1119257 | 30.0 | 30.0 | |
| 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 98 | 545065 | 15.0 | 14.9 | |
| 80 Styrene | 104 | 19.603 | 19.603 | 0.000 | 99 | 897534 | 15.0 | 15.9 | |
| 81 Bromoform | 173 | 20.035 | 20.035 | 0.000 | 97 | 863237 | 15.0 | 19.0 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 45.0 | 44.9 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 96 | 1766797 | 15.0 | 15.2 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.931 | 20.931 | 0.000 | 98 | 759807 | 15.0 | 14.1 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 99 | 2004570 | 15.0 | 14.7 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 94 | 653603 | 15.0 | 14.0 | |
| 88 4-Ethyltoluene | 105 | 21.204 | 21.204 | 0.000 | 98 | 1699378 | 15.0 | 14.9 | |
| 89 2-Chlorotoluene | 91 | 21.204 | 21.204 | 0.000 | 95 | 1417247 | 15.0 | 14.3 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 96 | 686058 | 15.0 | 13.4 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 92 | 1553601 | 15.0 | 15.1 | |
| 91 Alpha Methyl Styrene | 118 | 21.684 | 21.689 | -0.005 | 88 | 764541 | 15.0 | 16.3 | |
| 92 tert-Butylbenzene | 119 | 21.812 | 21.807 | 0.005 | 92 | 1483372 | 15.0 | 15.2 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 97 | 1549236 | 15.0 | 15.0 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 98 | 2148550 | 15.0 | 15.2 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 97 | 1945934 | 15.0 | 15.6 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 98 | 1087563 | 15.0 | 15.6 | |
| 97 1,4-Dichlorobenzene | 146 | 22.511 | 22.506 | 0.005 | 95 | 1118219 | 15.0 | 15.8 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 1504984 | 15.0 | 15.6 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 98 | 1717680 | 15.0 | 15.1 | |
| 99 Undecane | 57 | 22.960 | 22.959 | 0.001 | 89 | 784842 | 15.0 | 14.2 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 96 | 1064998 | 15.0 | 15.7 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 94 | 741258 | 15.0 | 14.0 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 94 | 933858 | 15.0 | 15.3 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 95 | 886193 | 15.0 | 15.5 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 1791546 | 15.0 | 14.9 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.343 | 0.000 | 96 | 862529 | 15.0 | 15.3 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL6w_00161 | Amount Added: 150.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

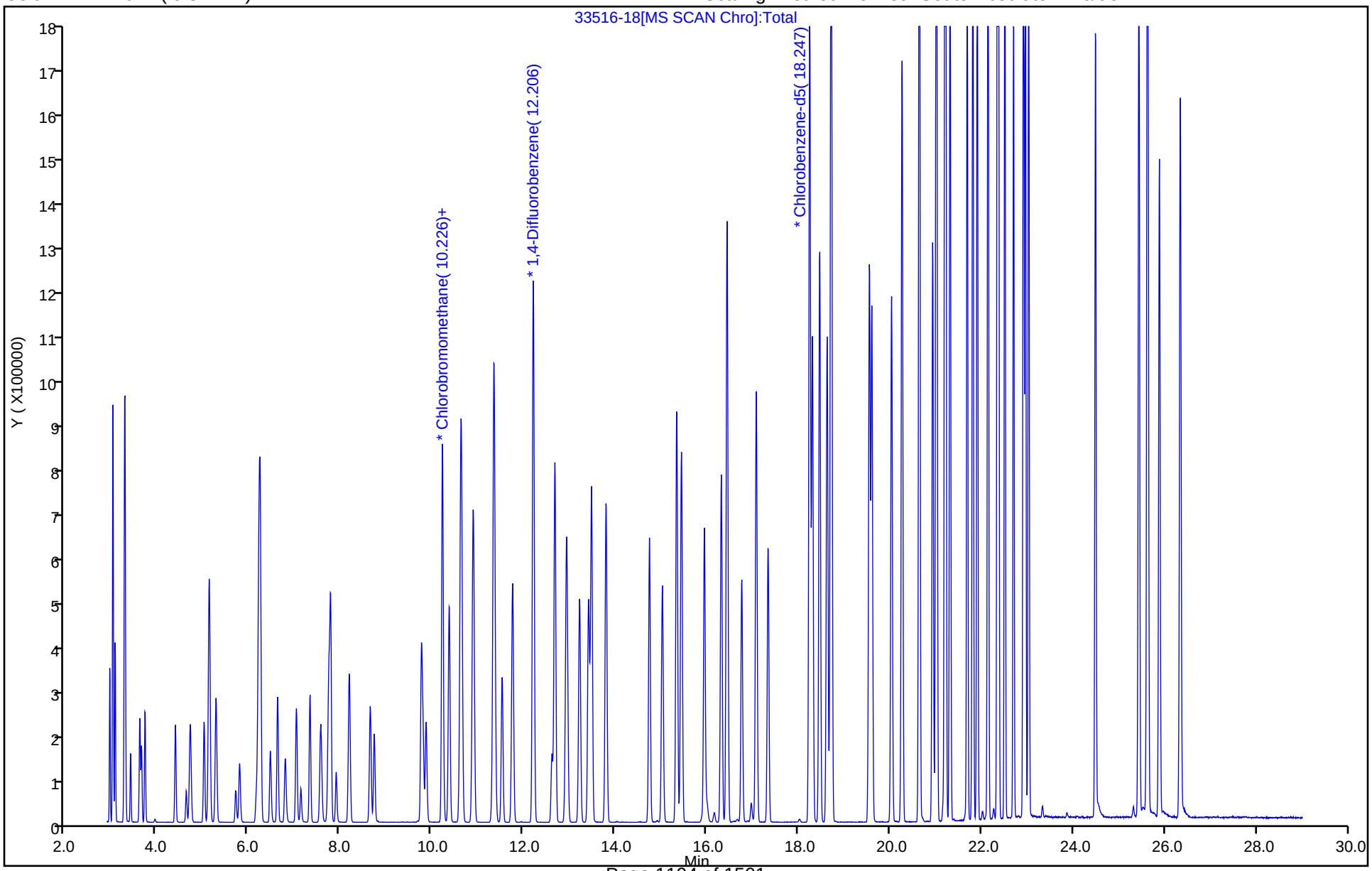
Report Date: 06-Dec-2018 10:38:36 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 09:17:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | ic | | | Worklist Smp#: | 18 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 18 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 200-137447/4 | 200-33385-004.D |
| Level 2 | IC 200-137447/5 | 200-33385-005.D |
| Level 3 | IC 200-137447/6 | 200-33385-006.D |
| Level 4 | IC 200-137447/7 | 200-33385-007.D |
| Level 5 | ICIS 200-137447/8 | 200-33385-008.D |
| Level 6 | IC 200-137447/9 | 200-33385-009.D |
| Level 7 | IC 200-137447/10 | 200-33385-010.D |
| Level 8 | IC 200-137447/11 | 200-33385-011.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Propylene | +++++ 0.6329 | +++++ 0.6568 | +++++ 0.6026 | 0.7527 | 0.8066 | Ave | | 0.6903 | | | | 12.4 | | 30.0 | | | |
| Dichlorodifluoromethane | +++++ 3.3389 | +++++ 3.4205 | 4.4909 2.9962 | 3.9455 | 4.1925 | Ave | | 3.7308 | | | | 15.3 | | 30.0 | | | |
| Chlorodifluoromethane | +++++ 1.3948 | +++++ 1.4821 | 1.8958 1.3904 | 1.6246 | 1.7412 | Ave | | 1.5882 | | | | 12.8 | | 30.0 | | | |
| 1,2-Dichlorotetrafluoroethane | +++++ 2.4871 | 2.9012 2.5770 | 3.3694 2.3598 | 2.8738 | 3.0853 | Ave | | 2.8077 | | | | 12.7 | | 30.0 | | | |
| Chloromethane | +++++ 0.6326 | +++++ 0.6828 | 0.8285 0.6510 | 0.7589 | 0.8019 | Ave | | 0.7259 | | | | 11.3 | | 30.0 | | | |
| n-Butane | +++++ 0.8588 | +++++ 0.8980 | 1.1689 0.8391 | 1.0189 | 1.0795 | Ave | | 0.9772 | | | | 13.6 | | 30.0 | | | |
| Vinyl chloride | 1.0834 0.7516 | 0.8332 0.7865 | 0.9709 0.7547 | 0.8664 | 0.9438 | Ave | | 0.8738 | | | | 13.5 | | 30.0 | | | |
| 1,3-Butadiene | 0.5534 0.4779 | 0.5452 0.5073 | 0.6551 0.4855 | 0.5389 | 0.5859 | Ave | | 0.5437 | | | | 10.6 | | 30.0 | | | |
| Bromomethane | +++++ 0.9191 | 0.9633 0.9673 | 1.1554 0.9282 | 1.0050 | 1.1238 | Ave | | 1.0089 | | | | 9.3 | | 30.0 | | | |
| Chloroethane | +++++ 0.2981 | +++++ 0.3106 | 0.4091 0.3048 | 0.3276 | 0.3674 | Ave | | 0.3363 | | | | 12.9 | | 30.0 | | | |
| Isopentane | +++++ 0.5721 | 0.6610 0.5826 | 0.7572 0.5559 | 0.6792 | 0.7074 | Ave | | 0.6451 | | | | 11.8 | | 30.0 | | | |
| Bromoethene(Vinyl Bromide) | +++++ 0.9050 | 0.9392 0.9502 | 1.1868 0.9196 | 0.9778 | 1.1037 | Ave | | 0.9975 | | | | 10.7 | | 30.0 | | | |
| Trichlorofluoromethane | +++++ 2.6569 | 2.8766 2.7100 | 3.5631 2.5398 | 3.0318 | 3.2599 | Ave | | 2.9483 | | | | 12.4 | | 30.0 | | | |
| n-Pentane | +++++ 0.8532 | +++++ 0.8736 | 1.2453 0.8464 | 0.9943 | 1.0457 | Ave | | 0.9764 | | | | 15.9 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethanol | +++++<br>0.1756 | +++++<br>0.1636 | 0.2556<br>0.1529 | 0.2128 | 0.2528 | Ave | | 0.2022 | | | | 22.3 | | 30.0 | | | |
| Ethyl ether | 0.3879<br>0.3273 | 0.3052<br>0.2746 | 0.4192<br>0.2839 | 0.3618 | 0.3802 | Ave | | 0.3425 | | | | 15.4 | | 30.0 | | | |
| Acrolein | +++++<br>0.1020 | +++++<br>0.1089 | +++++<br>0.1213 | 0.1663 | 0.1572 | Ave | | 0.1311 | | | | 22.1 | | 30.0 | | | |
| 1,1,2-Trichlorotrifluoroethane | +++++<br>1.8786 | 2.0349<br>1.9051 | 2.5595<br>1.8694 | 2.0356 | 2.2541 | Ave | | 2.0767 | | | | 12.1 | | 30.0 | | | |
| 1,1-Dichloroethene | 0.9994<br>0.7970 | 1.0051<br>0.8552 | 0.9932<br>0.8390 | 0.8598 | 0.9645 | Ave | | 0.9142 | | | | 9.3 | | 30.0 | | | |
| Acetone | +++++<br>0.7752 | +++++<br>0.6396 | +++++<br>0.6587 | 0.9232 | 0.8960 | Ave | | 0.7785 | | | | 16.8 | | 30.0 | | | |
| Carbon disulfide | +++++<br>2.1258 | +++++<br>2.1509 | 2.6421<br>2.1358 | 2.4410 | 2.6131 | Ave | | 2.3514 | | | | 10.4 | | 30.0 | | | |
| Isopropyl alcohol | +++++<br>0.8004 | +++++<br>0.8272 | +++++<br>0.7834 | 0.8973 | 0.9931 | Ave | | 0.8603 | | | | 10.0 | | 30.0 | | | |
| 3-Chloropropene | +++++<br>0.6406 | 0.6793<br>0.6435 | 0.8826<br>0.6157 | 0.6966 | 0.6024 | Ave | | 0.6801 | | | | 14.0 | | 30.0 | | | |
| Acetonitrile | +++++<br>0.2867 | +++++<br>0.2274 | +++++<br>0.2497 | 0.3291 | 0.3306 | Ave | | 0.2847 | | | | 16.3 | | 30.0 | | | |
| Methylene Chloride | +++++<br>0.7469 | +++++<br>0.7381 | 1.0060<br>0.7271 | 0.8292 | 0.9027 | Ave | | 0.8250 | | | | 13.5 | | 30.0 | | | |
| tert-Butyl alcohol | +++++<br>1.2182 | +++++<br>1.2894 | +++++<br>1.2365 | 1.3316 | 1.5007 | Ave | | 1.3153 | | | | 8.6 | | 30.0 | | | |
| Methyl tert-butyl ether | +++++<br>1.7148 | 1.6941<br>1.4867 | 2.2435<br>1.5198 | 1.8543 | 1.9269 | Ave | | 1.7772 | | | | 14.7 | | 30.0 | | | |
| trans-1,2-Dichloroethene | +++++<br>1.0001 | 1.1062<br>1.0014 | 1.3753<br>0.9872 | 1.0917 | 1.1912 | Ave | | 1.1076 | | | | 12.6 | | 30.0 | | | |
| Acrylonitrile | +++++<br>0.2987 | +++++<br>0.2439 | 0.3781<br>0.2802 | 0.3247 | 0.3389 | Ave | | 0.3108 | | | | 15.1 | | 30.0 | | | |
| n-Hexane | +++++<br>0.8047 | 0.8683<br>0.8128 | 1.0435<br>0.8116 | 0.8674 | 0.9716 | Ave | | 0.8829 | | | | 10.4 | | 30.0 | | | |
| 1,1-Dichloroethane | 1.8288<br>1.2653 | 1.3210<br>1.2484 | 1.6382<br>1.2562 | 1.3623 | 1.5147 | Ave | | 1.4294 | | | | 14.9 | | 30.0 | | | |
| Vinyl acetate | +++++<br>1.0877 | +++++<br>0.8747 | +++++<br>0.9712 | 1.2075 | 1.2650 | Ave | | 1.0812 | | | | 15.0 | | 30.0 | | | |
| cis-1,2-Dichloroethene | 0.7359<br>0.8260 | 0.8150<br>0.8352 | 1.0099<br>0.8502 | 0.8720 | 0.9834 | Ave | | 0.8660 | | | | 10.4 | | 30.0 | | | |
| Methyl Ethyl Ketone (2-Butanone) | +++++<br>0.2567 | +++++<br>0.2334 | 0.3758<br>0.2418 | 0.2811 | 0.2874 | Ave | | 0.2794 | | | | 18.5 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethyl acetate | +++++<br>0.0403 | +++++<br>0.0352 | +++++<br>0.0365 | 0.0437 | 0.0435 | Ave | | 0.0398 | | | | 9.8 | | 30.0 | | | |
| Tetrahydrofuran | +++++<br>0.1067 | +++++<br>0.0888 | +++++<br>0.0918 | 0.1296 | 0.1535 | Ave | | 0.1141 | | | | 23.9 | | 30.0 | | | |
| Chloroform | +++++<br>1.9314 | 1.9917<br>1.9092 | 2.5297<br>1.9140 | 2.0466 | 2.2991 | Ave | | 2.0888 | | | | 11.4 | | 30.0 | | | |
| Cyclohexane | +++++<br>0.2003 | 0.2327<br>0.1935 | 0.2603<br>0.1955 | 0.2238 | 0.3006 | Ave | | 0.2295 | | | | 17.2 | | 30.0 | | | |
| 1,1,1-Trichloroethane | +++++<br>0.4988 | 0.5078<br>0.4686 | 0.6359<br>0.4757 | 0.5543 | 0.7483 | Ave | | 0.5556 | | | | 18.4 | | 30.0 | | | |
| Carbon tetrachloride | 0.4806<br>0.5650 | 0.5059<br>0.5374 | 0.6669<br>0.5424 | 0.6211 | 0.8305 | Ave | | 0.5937 | | | | 19.0 | | 30.0 | | | |
| 2,2,4-Trimethylpentane | +++++<br>0.6794 | 0.7057<br>0.6381 | 0.8618<br>0.6427 | 0.7716 | 1.0153 | Ave | | 0.7593 | | | | 18.1 | | 30.0 | | | |
| Benzene | +++++<br>0.4835 | 0.4863<br>0.4265 | 0.6573<br>0.4735 | 0.4999 | 0.7004 | Ave | | 0.5325 | | | | 19.4 | | 30.0 | | | |
| 1,2-Dichloroethane | +++++<br>0.2789 | 0.2813<br>0.2453 | 0.3757<br>0.2649 | 0.2997 | 0.4101 | Ave | | 0.3080 | | | | 19.9 | | 30.0 | | | |
| n-Heptane | +++++<br>0.2449 | 0.2474<br>0.2303 | 0.3200<br>0.2289 | 0.2831 | 0.3634 | Ave | | 0.2740 | | | | 18.7 | | 30.0 | | | |
| n-Butanol | +++++<br>0.0800 | +++++<br>0.0814 | +++++<br>0.0832 | 0.0857 | 0.1201 | Ave | | 0.0901 | | | | 18.8 | | 30.0 | | | |
| Trichloroethene | 0.4574<br>0.3060 | 0.3105<br>0.3029 | 0.3480<br>0.3059 | 0.3198 | 0.4372 | Ave | | 0.3485 | | | | 18.0 | | 30.0 | | | |
| 1,2-Dichloropropane | +++++<br>0.1752 | 0.1675<br>0.1481 | 0.2276<br>0.1669 | 0.1813 | 0.2474 | Ave | | 0.1877 | | | | 19.2 | | 30.0 | | | |
| Methyl methacrylate | +++++<br>0.1487 | +++++<br>0.1311 | 0.1525<br>0.1407 | 0.1596 | 0.1977 | Ave | | 0.1550 | | | | 14.9 | | 30.0 | | | |
| Dibromomethane | 0.3478<br>0.3319 | 0.2791<br>0.2799 | 0.3143<br>0.3117 | 0.2892 | 0.4152 | Ave | | 0.3211 | | | | 14.1 | | 30.0 | | | |
| 1,4-Dioxane | +++++<br>0.0868 | +++++<br>0.0857 | +++++<br>0.0833 | 0.1014 | 0.1322 | Ave | | 0.0979 | | | | 20.9 | | 30.0 | | | |
| Bromodichloromethane | +++++<br>0.4979 | 0.4478<br>0.4742 | 0.5794<br>0.4968 | 0.5383 | 0.7535 | Ave | | 0.5411 | | | | 19.0 | | 30.0 | | | |
| cis-1,3-Dichloropropene | +++++<br>0.3252 | 0.2851<br>0.2866 | 0.3546<br>0.3168 | 0.3272 | 0.4499 | Ave | | 0.3350 | | | | 16.8 | | 30.0 | | | |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | +++++<br>0.3256 | +++++<br>0.3105 | 0.2817<br>0.3100 | 0.3847 | 0.4652 | Ave | | 0.3463 | | | | 19.5 | | 30.0 | | | |
| Toluene | +++++<br>0.3917 | 0.3291<br>0.3419 | 0.4980<br>0.3885 | 0.3929 | 0.4934 | Ave | | 0.4051 | | | | 16.5 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| n-Octane | 0.3970<br>0.3702 | 0.3466<br>0.3394 | 0.4541<br>0.3455 | 0.4195 | 0.5513 | Ave | | 0.4030 | | | | 17.9 | | 30.0 | | | |
| trans-1,3-Dichloropropene | +++++<br>0.3241 | 0.2696<br>0.2804 | 0.3487<br>0.3127 | 0.3311 | 0.4402 | Ave | | 0.3295 | | | | 17.1 | | 30.0 | | | |
| 1,1,2-Trichloroethane | +++++<br>0.2114 | 0.1820<br>0.1888 | 0.2604<br>0.2015 | 0.2193 | 0.2710 | Ave | | 0.2192 | | | | 15.6 | | 30.0 | | | |
| Tetrachloroethene | 0.4355<br>0.4617 | 0.4165<br>0.4625 | 0.5417<br>0.4886 | 0.4687 | 0.6052 | Ave | | 0.4850 | | | | 12.6 | | 30.0 | | | |
| Methyl Butyl Ketone (2-Hexanone) | +++++<br>0.3445 | +++++<br>0.3441 | 0.2655<br>0.3321 | 0.3965 | 0.4536 | Ave | | 0.3560 | | | | 17.9 | | 30.0 | | | |
| Dibromochloromethane | +++++<br>0.5088 | 0.4271<br>0.5724 | 0.6332<br>0.6131 | 0.5859 | 0.7606 | Ave | | 0.5859 | | | | 17.7 | | 30.0 | | | |
| 1,2-Dibromoethane | +++++<br>0.4438 | 0.3264<br>0.4051 | 0.4804<br>0.4444 | 0.4357 | 0.5623 | Ave | | 0.4426 | | | | 16.2 | | 30.0 | | | |
| Chlorobenzene | +++++<br>0.6117 | 0.4949<br>0.5568 | 0.7217<br>0.6103 | 0.5964 | 0.7698 | Ave | | 0.6231 | | | | 15.1 | | 30.0 | | | |
| Ethylbenzene | +++++<br>0.8972 | 0.7158<br>0.7958 | 1.0833<br>0.8478 | 0.9192 | 1.1260 | Ave | | 0.9122 | | | | 16.2 | | 30.0 | | | |
| n-Nonane | +++++<br>0.3814 | 0.3309<br>0.3456 | 0.4702<br>0.3597 | 0.4040 | 0.5000 | Ave | | 0.3988 | | | | 16.1 | | 30.0 | | | |
| m,p-Xylene | +++++<br>0.3676 | 0.2954<br>0.3261 | 0.4247<br>0.3647 | 0.3636 | 0.4462 | Ave | | 0.3698 | | | | 14.1 | | 30.0 | | | |
| o-Xylene | +++++<br>0.3484 | 0.2715<br>0.3108 | 0.4039<br>0.3434 | 0.3518 | 0.4300 | Ave | | 0.3514 | | | | 15.2 | | 30.0 | | | |
| Styrene | +++++<br>0.5616 | 0.3492<br>0.5108 | 0.5598<br>0.5623 | 0.5390 | 0.6829 | Ave | | 0.5379 | | | | 18.4 | | 30.0 | | | |
| Bromoform | +++++<br>0.3139 | 0.3517<br>0.5834 | 0.5752<br>0.6151 | 0.5731 | 0.6986 | Ave | | 0.5301 | | | | 26.8 | | 30.0 | | | |
| Cumene | +++++<br>1.0335 | 0.7455<br>0.9303 | 1.1674<br>0.9815 | 1.0518 | 1.2825 | Ave | | 1.0275 | | | | 16.7 | | 30.0 | | | |
| 1,1,2,2-Tetrachloroethane | +++++<br>0.5504 | 0.4482<br>0.5063 | 0.6336<br>0.5069 | 0.5835 | 0.6956 | Ave | | 0.5606 | | | | 15.0 | | 30.0 | | | |
| n-Propylbenzene | +++++<br>1.2323 | 0.8889<br>1.0927 | 1.4608<br>1.0737 | 1.2770 | 1.5395 | Ave | | 1.2236 | | | | 18.6 | | 30.0 | | | |
| 1,2,3-Trichloropropane | +++++<br>0.4472 | +++++<br>0.4020 | 0.5596<br>0.3989 | 0.4827 | 0.5650 | Ave | | 0.4759 | | | | 15.5 | | 30.0 | | | |
| 2-Chlorotoluene | +++++<br>0.9181 | 0.7204<br>0.8246 | 1.0617<br>0.8268 | 0.9526 | 1.1642 | Ave | | 0.9241 | | | | 16.4 | | 30.0 | | | |
| 4-Ethyltoluene | +++++<br>1.0768 | 0.7192<br>0.9640 | 1.1681<br>0.9775 | 1.0651 | 1.3206 | Ave | | 1.0416 | | | | 17.9 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| n-Decane | +++++<br>0.4779 | +++++<br>0.4256 | 0.5261<br>0.4153 | 0.5064 | 0.6083 | Ave | | 0.4933 | | | | 14.4 | | 30.0 | | | |
| 1,3,5-Trimethylbenzene | +++++<br>0.8956 | 0.6442<br>0.8150 | 1.0259<br>0.8332 | 0.9157 | 1.1089 | Ave | | 0.8912 | | | | 16.9 | | 30.0 | | | |
| Alpha Methyl Styrene | 0.2507<br>0.4704 | 0.2440<br>0.4418 | 0.4310<br>0.4794 | 0.4571 | 0.5749 | Ave | | 0.4187 | | | | 27.3 | | 30.0 | | | |
| tert-Butylbenzene | +++++<br>0.8409 | 0.5813<br>0.7712 | 0.9355<br>0.8126 | 0.8597 | 1.0341 | Ave | | 0.8336 | | | | 16.9 | | 30.0 | | | |
| 1,2,4-Trimethylbenzene | +++++<br>0.8911 | 0.6184<br>0.8144 | 0.9911<br>0.8219 | 0.9134 | 1.1044 | Ave | | 0.8792 | | | | 17.4 | | 30.0 | | | |
| sec-Butylbenzene | +++++<br>1.2622 | 0.8682<br>1.1513 | 1.4377<br>1.0542 | 1.3128 | 1.5663 | Ave | | 1.2361 | | | | 19.0 | | 30.0 | | | |
| 4-Isopropyltoluene | +++++<br>1.1224 | 0.6429<br>1.0348 | 1.1711<br>0.9553 | 1.1274 | 1.3624 | Ave | | 1.0595 | | | | 21.0 | | 30.0 | | | |
| 1,3-Dichlorobenzene | +++++<br>0.7357 | 0.5359<br>0.6840 | 0.7351<br>0.6903 | 0.7077 | 0.8994 | Ave | | 0.7126 | | | | 15.0 | | 30.0 | | | |
| 1,4-Dichlorobenzene | +++++<br>0.6952 | 0.5161<br>0.6448 | 0.7165<br>0.6563 | 0.6882 | 0.8527 | Ave | | 0.6814 | | | | 14.7 | | 30.0 | | | |
| Benzyl chloride | +++++<br>0.8847 | 0.5401<br>0.8301 | 0.9012<br>0.7958 | 0.8876 | 1.0484 | Ave | | 0.8411 | | | | 18.4 | | 30.0 | | | |
| n-Butylbenzene | +++++<br>1.0057 | 0.6646<br>0.9161 | 0.9930<br>0.8422 | 1.0697 | 1.2696 | Ave | | 0.9659 | | | | 19.5 | | 30.0 | | | |
| n-Undecane | +++++<br>0.5350 | +++++<br>0.4812 | +++++<br>0.4546 | 0.5682 | 0.6776 | Ave | | 0.5433 | | | | 16.1 | | 30.0 | | | |
| 1,2-Dichlorobenzene | +++++<br>0.6677 | 0.4986<br>0.6195 | 0.6777<br>0.6269 | 0.6715 | 0.8222 | Ave | | 0.6549 | | | | 14.7 | | 30.0 | | | |
| n-Dodecane | +++++<br>0.4633 | +++++<br>0.4103 | 0.2854<br>0.3898 | 0.4873 | 0.5744 | Ave | | 0.4351 | | | | 22.5 | | 30.0 | | | |
| 1,2,4-Trichlorobenzene | +++++<br>0.5232 | +++++<br>0.4893 | 0.3677<br>0.4924 | 0.4772 | 0.6037 | Ave | | 0.4922 | | | | 15.5 | | 30.0 | | | |
| Hexachlorobutadiene | +++++<br>0.4948 | 0.4280<br>0.4522 | 0.5076<br>0.4430 | 0.4948 | 0.6071 | Ave | | 0.4897 | | | | 12.2 | | 30.0 | | | |
| Naphthalene | +++++<br>1.0454 | +++++<br>0.9929 | 0.6623<br>0.9673 | 0.9060 | 1.1521 | Ave | | 0.9543 | | | | 17.3 | | 30.0 | | | |
| 1,2,3-Trichlorobenzene | +++++<br>0.4534 | +++++<br>0.4244 | 0.3280<br>0.4206 | 0.4203 | 0.5048 | Ave | | 0.4252 | | | | 13.6 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 200-137447/4 | 200-33385-004.D |
| Level 2 | IC 200-137447/5 | 200-33385-005.D |
| Level 3 | IC 200-137447/6 | 200-33385-006.D |
| Level 4 | IC 200-137447/7 | 200-33385-007.D |
| Level 5 | ICIS 200-137447/8 | 200-33385-008.D |
| Level 6 | IC 200-137447/9 | 200-33385-009.D |
| Level 7 | IC 200-137447/10 | 200-33385-010.D |
| Level 8 | IC 200-137447/11 | 200-33385-011.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Propylene | BCM | Ave | +++++<br>1051895 | +++++<br>1420070 | +++++<br>2699122 | 364033 | 785952 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Dichlorodifluoromethane | BCM | Ave | +++++<br>5549641 | +++++<br>7395788 | 228414<br>13419981 | 1908083 | 4085272 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chlorodifluoromethane | BCM | Ave | +++++<br>2318249 | +++++<br>3204700 | 96426<br>6227733 | 785654 | 1696694 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichlorotetrafluoroethane | BCM | Ave | +++++<br>4133878 | 58316<br>5572029 | 171371<br>10569525 | 1389798 | 3006367 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chloromethane | BCM | Ave | +++++<br>1051513 | +++++<br>1476396 | 42138<br>2915590 | 366991 | 781412 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butane | BCM | Ave | +++++<br>1427468 | +++++<br>1941633 | 59450<br>3758112 | 492754 | 1051856 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Vinyl chloride | BCM | Ave | 4137<br>1249166 | 16747<br>1700616 | 49384<br>3380364 | 418982 | 919635 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3-Butadiene | BCM | Ave | 2113<br>794383 | 10959<br>1096868 | 33319<br>2174691 | 260635 | 570903 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromomethane | BCM | Ave | +++++<br>1527586 | 19363<br>2091603 | 58765<br>4157469 | 486037 | 1095065 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chloroethane | BCM | Ave | +++++<br>495532 | +++++<br>671660 | 20807<br>1365037 | 158452 | 357997 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Isopentane | BCM | Ave | +++++<br>950946 | 13287<br>1259758 | 38513<br>2489976 | 328482 | 689287 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromoethene(Vinyl Bromide) | BCM | Ave | +++++<br>1504165 | 18879<br>2054520 | 60365<br>4118977 | 472875 | 1075494 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Trichlorofluoromethane | BCM | Ave | +++++<br>4416027 | 57821<br>5859677 | 181225<br>11375500 | 1466203 | 3176477 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Pentane | BCM | Ave | +++++<br>1418170 | +++++<br>1888865 | 63337<br>3791215 | 480875 | 1018971 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethanol | BCM | Ave | +++++<br>390014 | +++++<br>707471 | 130151<br>1712095 | 205970 | 369667 | +++++<br>20.0 | +++++<br>40.0 | 5.01<br>100.0 | 9.99 | 15.0 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Ethyl ether | BCM | Ave | 1481<br>544069 | 6134<br>593714 | 21321<br>1271570 | 174979 | 370443 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acrolein | BCM | Ave | +++++<br>169592 | +++++<br>235550 | +++++<br>543303 | 80408 | 153136 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 1,1,2-Trichlorotrifluoroethane | BCM | Ave | +++++<br>3122448 | 40902<br>4119144 | 130182<br>8372996 | 984428 | 2196444 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1-Dichloroethene | BCM | Ave | 3816<br>1324685 | 20203<br>1849152 | 50516<br>3757862 | 415825 | 939842 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acetone | BCM | Ave | +++++<br>1288430 | +++++<br>1383034 | +++++<br>2950498 | 446467 | 873048 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Carbon disulfide | BCM | Ave | +++++<br>3533230 | +++++<br>4650752 | 134380<br>9566310 | 1180486 | 2546288 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Isopropyl alcohol | BCM | Ave | +++++<br>1330275 | +++++<br>1788623 | +++++<br>3508874 | 433961 | 967720 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 3-Chloropropene | BCM | Ave | +++++<br>1064730 | 13655<br>1391342 | 44893<br>2757743 | 336881 | 586985 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acetonitrile | BCM | Ave | +++++<br>476460 | +++++<br>491620 | +++++<br>1118502 | 159156 | 322186 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Methylene Chloride | BCM | Ave | +++++<br>1241501 | +++++<br>1595918 | 51169<br>3256585 | 400998 | 879587 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| tert-Butyl alcohol | BCM | Ave | +++++<br>2024721 | +++++<br>2787953 | +++++<br>5538463 | 643959 | 1462343 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Methyl tert-butyl ether | BCM | Ave | +++++<br>2850213 | 34053<br>3214537 | 114110<br>6807313 | 896738 | 1877588 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| trans-1,2-Dichloroethene | BCM | Ave | +++++<br>1662249 | 22236<br>2165148 | 69952<br>4421717 | 527968 | 1160714 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acrylonitrile | BCM | Ave | +++++<br>496388 | +++++<br>527389 | 19230<br>1255166 | 157052 | 330215 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Hexane | BCM | Ave | +++++<br>1337568 | 17454<br>1757444 | 53074<br>3635199 | 419502 | 946701 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1-Dichloroethane | BCM | Ave | 6983<br>2102981 | 26553<br>2699325 | 83323<br>5626599 | 658831 | 1475943 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Vinyl acetate | BCM | Ave | +++++<br>1807895 | +++++<br>1891260 | +++++<br>4349907 | 583981 | 1232683 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| cis-1,2-Dichloroethene | BCM | Ave | 2810<br>1372886 | 16381<br>1805960 | 51366<br>3807961 | 421703 | 958263 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl Ethyl Ketone (2-Butanone) | BCM | Ave | +++++<br>426590 | +++++<br>504703 | 19113<br>1082953 | 135941 | 280092 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethyl acetate | BCM | Ave | +++++<br>66961 | +++++<br>76105 | +++++<br>163260 | 21125 | 42404 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Tetrahydrofuran | DFBZ | Ave | +++++<br>787841 | +++++<br>901182 | +++++<br>1902316 | 260189 | 531349 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Chloroform | BCM | Ave | +++++<br>3210215 | 40034<br>4128100 | 128667<br>8572568 | 989740 | 2240315 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Cyclohexane | DFBZ | Ave | +++++<br>1479056 | 20662<br>1963429 | 58864<br>4051197 | 449187 | 1040636 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,1-Trichloroethane | DFBZ | Ave | +++++<br>3683537 | 45084<br>4755711 | 143792<br>9855828 | 1112533 | 2590931 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Carbon tetrachloride | DFBZ | Ave | 8699<br>4172078 | 44908<br>5453754 | 150815<br>11237527 | 1246640 | 2875434 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 2,2,4-Trimethylpentane | DFBZ | Ave | +++++<br>5016965 | 62654<br>6475336 | 194884<br>13317097 | 1548759 | 3515364 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Benzene | DFBZ | Ave | +++++<br>3570443 | 43168<br>4328088 | 148640<br>9811343 | 1003423 | 2425081 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichloroethane | DFBZ | Ave | +++++<br>2059367 | 24972<br>2489352 | 84959<br>5487945 | 601611 | 1420020 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Heptane | DFBZ | Ave | +++++<br>1808294 | 21959<br>2336889 | 72356<br>4741703 | 568208 | 1258258 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butanol | DFBZ | Ave | +++++<br>590670 | +++++<br>826101 | +++++<br>1724262 | 171996 | 415873 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Trichloroethene | DFBZ | Ave | 8278<br>2259549 | 27569<br>3073973 | 78684<br>6338766 | 641772 | 1513764 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichloropropane | DFBZ | Ave | +++++<br>1293872 | 14866<br>1502966 | 51479<br>3457600 | 363894 | 856722 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl methacrylate | DFBZ | Ave | +++++<br>1098124 | +++++<br>1330674 | 34488<br>2914700 | 320321 | 684345 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Dibromomethane | DFBZ | Ave | 6295<br>2450905 | 24779<br>2840387 | 71063<br>6458681 | 580456 | 1437496 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,4-Dioxane | DFBZ | Ave | +++++<br>641235 | +++++<br>869623 | +++++<br>1725135 | 203616 | 457619 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Bromodichloromethane | DFBZ | Ave | +++++<br>3677048 | 39756<br>4812503 | 131012<br>10293890 | 1080443 | 2608790 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| cis-1,3-Dichloropropene | DFBZ | Ave | +++++<br>2401051 | 25306<br>2908180 | 80183<br>6564618 | 656690 | 1557584 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | DFBZ | Ave | +++++<br>2404030 | +++++<br>3150659 | 63705<br>6422005 | 772096 | 1610756 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Toluene | CBNZ d5 | Ave | +++++<br>2697537 | 27235<br>3169437 | 99665<br>7579326 | 735618 | 1720202 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Octane | DFBZ | Ave | 7186<br>2733544 | 30772<br>3444502 | 102681<br>7159103 | 841880 | 1908768 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| trans-1,3-Dichloropropene | DFBZ | Ave | +++++<br>2393129 | 23930<br>2845044 | 78856<br>6478563 | 664445 | 1524139 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,2-Trichloroethane | CBNZ d5 | Ave | +++++<br>1455914 | 15065<br>1750288 | 52120<br>3930810 | 410631 | 944671 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Tetrachloroethene | CBNZ d5 | Ave | 7097<br>3180178 | 34467<br>4287756 | 108407<br>9530791 | 877542 | 2109890 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl Butyl Ketone (2-Hexanone) | CBNZ d5 | Ave | +++++<br>2372638 | +++++<br>3189962 | 53132<br>6477478 | 742376 | 1581311 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Dibromochloromethane | CBNZ d5 | Ave | +++++<br>3504436 | 35343<br>5306808 | 126722<br>11959307 | 1096910 | 2651860 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dibromoethane | CBNZ d5 | Ave | +++++<br>3056704 | 27011<br>3755698 | 96147<br>8668262 | 815745 | 1960372 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chlorobenzene | CBNZ d5 | Ave | +++++<br>4212946 | 40954<br>5162562 | 144447<br>11904403 | 1116470 | 2683674 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethylbenzene | CBNZ d5 | Ave | +++++<br>6179511 | 59235<br>7378266 | 216811<br>16537592 | 1720827 | 3925675 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Nonane | CBNZ d5 | Ave | +++++<br>2627135 | 27380<br>3204291 | 94114<br>7015829 | 756388 | 1743091 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| m,p-Xylene | CBNZ d5 | Ave | +++++<br>5063931 | 48888<br>6046753 | 169987<br>14227820 | 1361269 | 3111549 | +++++<br>30.0 | 0.401<br>40.0 | 1.00<br>80.0 | 9.99 | 20.0 |
| o-Xylene | CBNZ d5 | Ave | +++++<br>2399623 | 22469<br>2881433 | 80844<br>6699071 | 658661 | 1499082 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Styrene | CBNZ d5 | Ave | +++++<br>3868129 | 28896<br>4735875 | 112030<br>10969590 | 1009105 | 2380815 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromoform | CBNZ d5 | Ave | +++++<br>2161781 | 29102<br>5408954 | 115114<br>11998176 | 1072914 | 2435440 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Cumene | CBNZ d5 | Ave | +++++<br>7117974 | 61695<br>8625268 | 233651<br>19146334 | 1969132 | 4471409 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,2,2-Tetrachloroethane | CBNZ d5 | Ave | +++++<br>3790940 | 37089<br>4694500 | 126803<br>9888341 | 1092336 | 2425088 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Propylbenzene | CBNZ d5 | Ave | +++++<br>8487730 | 73558<br>10131225 | 292366<br>20945257 | 2390637 | 5367272 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,3-Trichloropropane | CBNZ d5 | Ave | +++++<br>3079793 | +++++<br>3726635 | 111994<br>7781871 | 903747 | 1969674 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 2-Chlorotoluene | CBNZ d5 | Ave | +++++<br>6323624 | 59613<br>7644964 | 212485<br>16128555 | 1783458 | 4058986 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Ethyltoluene | CBNZ d5 | Ave | +++++<br>7416727 | 59515<br>8937124 | 233789<br>19068557 | 1994007 | 4603967 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Decane | CBNZ d5 | Ave | +++++<br>3291763 | +++++<br>3946033 | 105294<br>8101213 | 948077 | 2120895 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3,5-Trimethylbenzene | CBNZ d5 | Ave | +++++<br>6168169 | 53306<br>7555721 | 205318<br>16252663 | 1714281 | 3866116 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Alpha Methyl Styrene | CBNZ d5 | Ave | 4086<br>3239717 | 20195<br>4096139 | 86259<br>9352072 | 855695 | 2004428 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| tert-Butylbenzene | CBNZ d5 | Ave | +++++<br>5791514 | 48103<br>7149602 | 187237<br>15852197 | 1609408 | 3605410 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2,4-Trimethylbenzene | CBNZ d5 | Ave | +++++<br>6137145 | 51172<br>7550261 | 198359<br>16033863 | 1709998 | 3850351 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| sec-Butylbenzene | CBNZ d5 | Ave | +++++<br>8693056 | 71845<br>10673825 | 287732<br>20565381 | 2457706 | 5460744 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Isopropyltoluene | CBNZ d5 | Ave | +++++<br>7730417 | 53198<br>9594097 | 234383<br>18636156 | 2110536 | 4749785 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>5066879 | 44349<br>6341580 | 147114<br>13465059 | 1324895 | 3135758 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,4-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>4788189 | 42712<br>5978083 | 143403<br>12802544 | 1288460 | 2972771 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Benzyl chloride | CBNZ d5 | Ave | +++++<br>6093646 | 44697<br>7695730 | 180360<br>15523695 | 1661751 | 3655270 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butylbenzene | CBNZ d5 | Ave | +++++<br>6926989 | 54995<br>8493710 | 198746<br>16429525 | 2002534 | 4426320 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Undecane | CBNZ d5 | Ave | +++++<br>3684708 | +++++<br>4461241 | +++++<br>8868673 | 1063652 | 2362262 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>4598903 | 41264<br>5743225 | 135642<br>12229345 | 1257186 | 2866493 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Dodecane | CBNZ d5 | Ave | +++++<br>3190960 | +++++<br>3804271 | 57122<br>7604798 | 912362 | 2002652 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,4-Trichlorobenzene | CBNZ d5 | Ave | +++++<br>3603443 | +++++<br>4536179 | 73588<br>9605184 | 893344 | 2104583 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Hexachlorobutadiene | CBNZ d5 | Ave | +++++<br>3408169 | 35418<br>4192325 | 101589<br>8641895 | 926407 | 2116655 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Naphthalene | CBNZ d5 | Ave | +++++<br>7199838 | +++++<br>9205645 | 132543<br>18868971 | 1696136 | 4016657 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,3-Trichlorobenzene | CBNZ d5 | Ave | +++++<br>3122511 | +++++<br>3934722 | 65637<br>8204087 | 786857 | 1759849 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Nov-2018 20:22:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-004
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:31 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: desjardinsb Date: 28-Nov-2018 08:19:50

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.096 | 3.090 | 0.006 | 55 | 5713 | 0.0351 | 0.0760 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 95 | 14956 | 0.0351 | 0.0368 | |
| 3 Chlorodifluoromethane | 51 | 3.187 | 3.176 | 0.011 | 94 | 7620 | 0.0351 | 0.0441 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 85 | 10662 | 0.0351 | 0.0349 | |
| 5 Chloromethane | 50 | 3.465 | 3.454 | 0.011 | 55 | 4325 | 0.0351 | 0.0547 | |
| 6 Butane | 43 | 3.598 | 3.604 | -0.006 | 64 | 2884 | 0.0351 | 0.0271 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 23 | 4137 | 0.0351 | 0.0435 | |
| 8 Butadiene | 54 | 3.705 | 3.689 | 0.016 | 38 | 2113 | 0.0351 | 0.0357 | |
| 10 Bromomethane | 94 | 4.219 | 4.208 | 0.011 | 60 | 4646 | 0.0351 | 0.0423 | |
| 11 Chloroethane | 64 | 4.385 | 4.380 | 0.005 | 30 | 1699 | 0.0351 | 0.0464 | |
| 12 2-Methylbutane | 43 | 4.438 | 4.438 | 0.000 | 50 | 2947 | 0.0351 | 0.0420 | |
| 13 Vinyl bromide | 106 | 4.679 | 4.685 | -0.005 | 46 | 3642 | 0.0351 | 0.0335 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 83 | 11173 | 0.0351 | 0.0348 | |
| 16 Pentane | 43 | 4.872 | 4.866 | 0.006 | 87 | 4896 | 0.0351 | 0.0461 | |
| 17 Ethanol | 45 | 5.246 | 5.209 | 0.037 | 67 | 1808 | 0.0702 | 0.0821 | |
| 18 Ethyl ether | 59 | 5.332 | 5.278 | 0.054 | 35 | 1481 | 0.0351 | 0.0397 | |
| 19 Acrolein | 56 | 5.621 | 5.594 | 0.027 | 33 | 1228 | 0.0351 | 0.0860 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 87 | 9326 | 0.0351 | 0.0413 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 56 | 3816 | 0.0351 | 0.0383 | |
| 22 Acetone | 43 | 5.894 | 5.856 | 0.038 | 98 | 15881 | 0.0351 | 0.1874 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 97 | 4780 | 0.0351 | 0.0187 | |
| 24 Isopropyl alcohol | 45 | 6.145 | 6.097 | 0.048 | 43 | 1434 | 0.0351 | 0.0153 | |
| 25 3-Chloro-1-propene | 41 | 6.316 | 6.311 | 0.005 | 57 | 2636 | 0.0351 | 0.0356 | |
| 26 Acetonitrile | 41 | 6.450 | 6.423 | 0.027 | 56 | 1278 | 0.0351 | 0.0412 | |
| 27 Methylene Chloride | 49 | 6.546 | 6.557 | -0.011 | 65 | 2403 | 0.0351 | 0.0268 | |
| 28 2-Methyl-2-propanol | 59 | 6.835 | 6.771 | 0.064 | 75 | 3367 | 0.0351 | 0.0235 | |
| 29 Methyl tert-butyl ether | 73 | 6.985 | 6.937 | 0.048 | 87 | 3218 | 0.0351 | 0.0166 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 55 | 2773 | 0.0351 | 0.0230 | |
| 32 Acrylonitrile | 53 | 7.065 | 7.076 | -0.011 | 1 | 176 | 0.0351 | 0.005203 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 68 | 3226 | 0.0351 | 0.0336 | |
| 34 1,1-Dichloroethane | 63 | 7.723 | 7.728 | -0.005 | 19 | 6983 | 0.0351 | 0.0449 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.814 | 7.793 | 0.021 | 63 | 3258 | 0.0351 | 0.0277 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 38 | 2810 | 0.0351 | 0.0298 | |
| 38 2-Butanone (MEK) | 72 | 8.830 | 8.793 | 0.037 | 53 | 509 | 0.0351 | 0.0167 | |
| 39 Ethyl acetate | 88 | 8.750 | 8.831 | -0.081 | 1 | 62 | 0.0351 | 0.0143 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.162 | -0.005 | 75 | 1088567 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.189 | 9.210 | -0.021 | 1 | 399 | 0.0351 | 0.006778 | |
| 42 Chloroform | 83 | 9.275 | 9.275 | 0.000 | 49 | 8544 | 0.0351 | 0.0376 | M |
| 43 Cyclohexane | 84 | 9.526 | 9.537 | -0.011 | 57 | 4041 | 0.0351 | 0.0341 | |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.547 | -0.005 | 96 | 9215 | 0.0351 | 0.0321 | M |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 0.0702 | 0.0528 | |
| 45 Carbon tetrachloride | 117 | 9.788 | 9.788 | 0.000 | 93 | 8699 | 0.0351 | 0.0284 | M |
| 46 Isooctane | 57 | | 10.205 | | | | ND | ND | |
| 47 Benzene | 78 | 10.221 | 10.221 | 0.000 | 95 | 10981 | 0.0351 | 0.0400 | M |
| 48 1,2-Dichloroethane | 62 | | 10.387 | | | | ND | ND | |
| 49 n-Heptane | 43 | 10.580 | 10.575 | 0.005 | 68 | 3569 | 0.0351 | 0.0252 | |
| * 50 1,4-Difluorobenzene | 114 | 11.024 | 11.024 | 0.000 | 93 | 5159728 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.532 | 11.463 | 0.069 | 53 | 2316 | 0.0351 | 0.0498 | |
| 53 Trichloroethene | 95 | 11.489 | 11.489 | 0.000 | 89 | 8278 | 0.0351 | 0.0460 | M |
| 54 1,2-Dichloropropane | 63 | | 12.024 | | | | ND | ND | |
| 55 Methyl methacrylate | 69 | | 12.217 | | | | ND | ND | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 19750183 | 0.0351 | 0 | |
| 57 Dibromomethane | 174 | 12.265 | 12.276 | -0.011 | 84 | 6295 | 0.0351 | 0.0380 | M |
| 56 1,4-Dioxane | 88 | 12.270 | 12.281 | -0.011 | 1 | 134 | 0.0351 | 0.002653 | |
| 58 Dichlorobromomethane | 83 | | 12.565 | | | | ND | ND | |
| 60 cis-1,3-Dichloropropene | 75 | 13.485 | 13.479 | 0.006 | 68 | 4723 | 0.0351 | 0.0273 | M |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.832 | 13.795 | 0.037 | 69 | 3738 | 0.0351 | 0.0209 | |
| 65 Toluene | 92 | 14.063 | 14.068 | -0.006 | 96 | 5065 | 0.0351 | 0.0269 | |
| 64 n-Octane | 43 | 14.153 | 14.153 | 0.000 | 83 | 7186 | 0.0351 | 0.0346 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 19983860 | 0.0351 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.667 | 14.662 | 0.005 | 36 | 3559 | 0.0351 | 0.0209 | |
| 67 1,1,2-Trichloroethane | 83 | | 15.031 | | | | ND | ND | |
| 68 Tetrachloroethene | 166 | 15.154 | 15.143 | 0.011 | 91 | 7097 | 0.0351 | 0.0315 | M |
| 69 2-Hexanone | 43 | 15.528 | 15.518 | 0.010 | 13 | 1905 | 0.0351 | 0.0115 | |
| 71 Chlorodibromomethane | 129 | 15.785 | 15.790 | -0.005 | 68 | 5848 | 0.0351 | 0.0215 | |
| 72 Ethylene Dibromide | 107 | 16.042 | 16.053 | -0.011 | 43 | 4765 | 0.0351 | 0.0232 | M |
| * 74 Chlorobenzene-d5 | 117 | 16.962 | 16.962 | 0.000 | 85 | 4646288 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 48 | 9434 | 0.0351 | 0.0326 | |
| 76 Ethylbenzene | 91 | 17.197 | 17.192 | 0.005 | 76 | 14185 | 0.0351 | 0.0335 | |
| 77 n-Nonane | 57 | 17.363 | 17.358 | 0.005 | 75 | 5302 | 0.0351 | 0.0286 | |
| 78 m-Xylene & p-Xylene | 106 | 17.454 | 17.449 | 0.005 | 0 | 11044 | 0.0702 | 0.0643 | |
| 79 o-Xylene | 106 | 18.305 | 18.294 | 0.011 | 77 | 1032 | 0.0351 | 0.006321 | |
| 80 Styrene | 104 | 18.364 | 18.348 | 0.016 | 60 | 1940 | 0.0351 | 0.007762 | |
| 81 Bromoform | 173 | 18.781 | 18.786 | -0.005 | 75 | 2566 | 0.0351 | 0.0104 | |
| 82 Isopropylbenzene | 105 | 19.048 | 19.048 | 0.000 | 63 | 12957 | 0.0351 | 0.0271 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 0.1052 | 0.0706 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 78 | 6387 | 0.0351 | 0.0245 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 91 | 15129 | 0.0351 | 0.0266 | |
| 86 1,2,3-Trichloropropane | 75 | 19.867 | 19.867 | 0.000 | 80 | 5215 | 0.0351 | 0.0236 | |
| 89 2-Chlorotoluene | 91 | 20.060 | 20.054 | 0.006 | 92 | 11608 | 0.0351 | 0.0270 | |
| 88 4-Ethyltoluene | 105 | 20.065 | 20.060 | 0.005 | 78 | 10977 | 0.0351 | 0.0227 | |
| 87 n-Decane | 57 | 20.081 | 20.086 | -0.005 | 77 | 4260 | 0.0351 | 0.0186 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.177 | 0.000 | 90 | 9102 | 0.0351 | 0.0220 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.568 | 20.573 | -0.005 | 58 | 4086 | 0.0351 | 0.0210 | |
| 92 tert-Butylbenzene | 119 | 20.696 | 20.702 | -0.006 | 74 | 9701 | 0.0351 | 0.0250 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 72 | 9703 | 0.0351 | 0.0238 | |
| 94 sec-Butylbenzene | 105 | 21.055 | 21.049 | 0.006 | 97 | 15189 | 0.0351 | 0.0264 | |
| 95 4-Isopropyltoluene | 119 | 21.274 | 21.269 | 0.005 | 93 | 12938 | 0.0351 | 0.0263 | |
| 96 1,3-Dichlorobenzene | 146 | 21.285 | 21.279 | 0.006 | 84 | 10895 | 0.0351 | 0.0329 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 61 | 10808 | 0.0351 | 0.0341 | |
| 98 Benzyl chloride | 91 | 21.622 | 21.627 | -0.005 | 94 | 12440 | 0.0351 | 0.0318 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 95 | 12903 | 0.0351 | 0.0288 | |
| 99 Undecane | 57 | 21.921 | 21.911 | 0.010 | 83 | 6113 | 0.0351 | 0.0242 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 89 | 10097 | 0.0351 | 0.0332 | |
| 102 Dodecane | 57 | 23.435 | 23.441 | -0.006 | 16 | 5599 | 0.0351 | 0.0277 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334 | 24.345 | -0.011 | 89 | 13858 | 0.0351 | 0.0606 | |
| 104 Hexachlorobutadiene | 225 | 24.532 | 24.537 | -0.005 | 77 | 9105 | 0.0351 | 0.0400 | |
| 105 Naphthalene | 128 | 24.789 | 24.783 | 0.006 | 98 | 30635 | 0.0351 | 0.0691 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.238 | 25.233 | 0.005 | 74 | 16370 | 0.0351 | 0.0829 | |

## QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL1w_00197 | Amount Added: 35.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

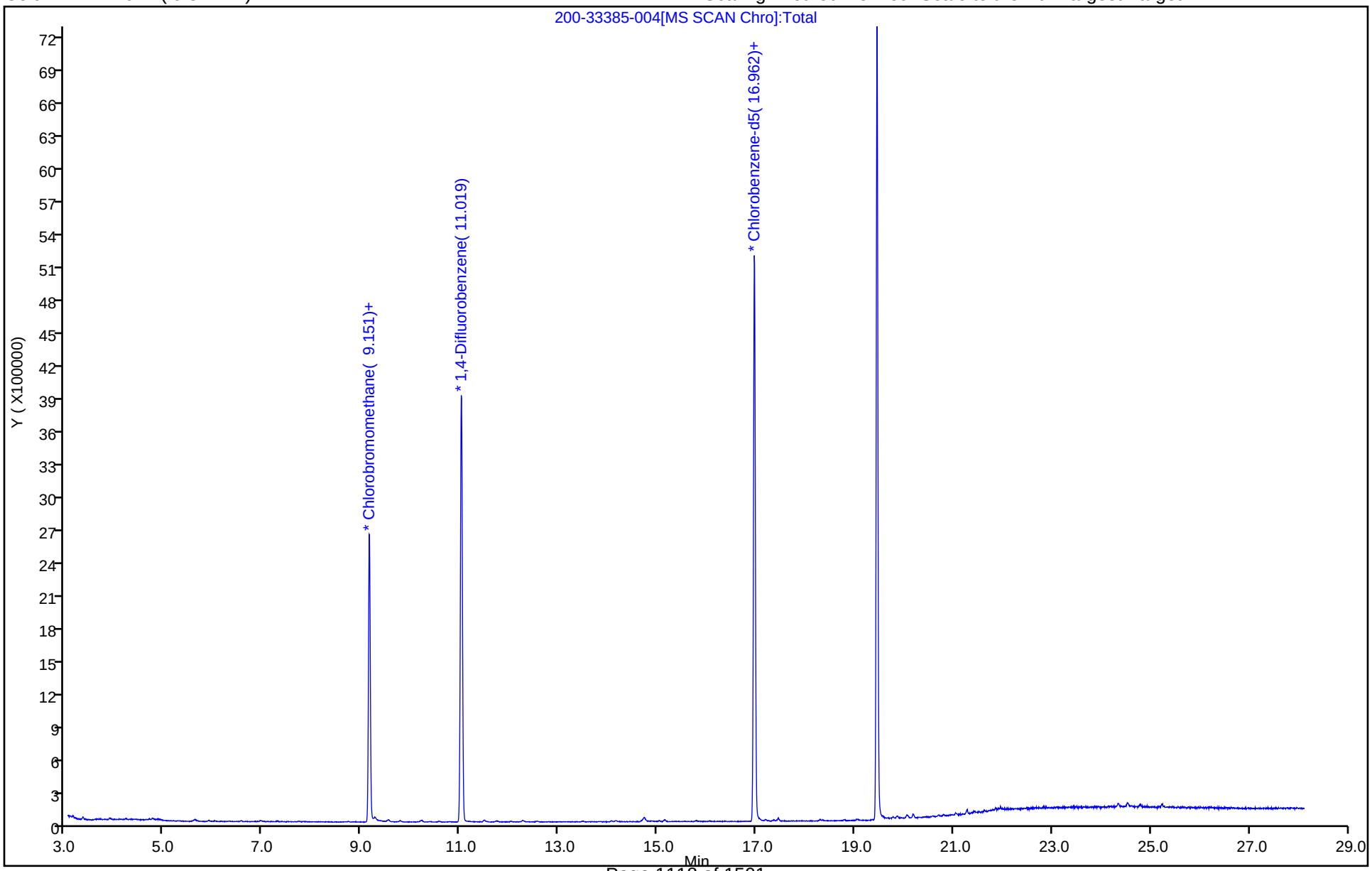
Report Date: 28-Nov-2018 11:37:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Nov-2018 20:22:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

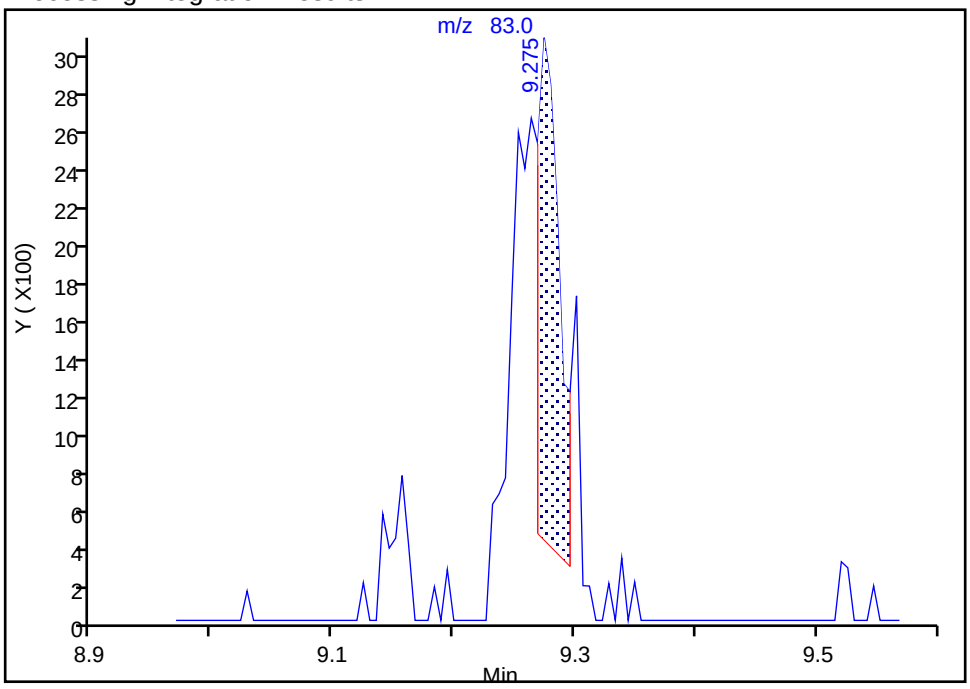
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 42 Chloroform, CAS: 67-66-3

Signal: 1

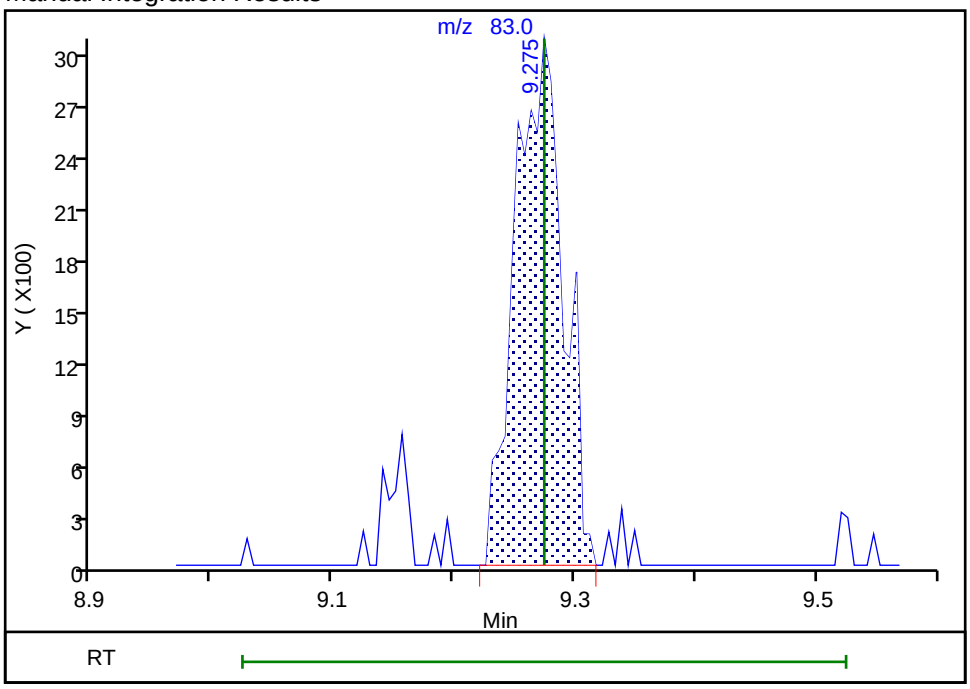
Processing Integration Results

RT: 9.27
Area: 3493
Amount: 0.015362
Amount Units: ppb v/v




Manual Integration Results

RT: 9.27
Area: 8544
Amount: 0.037576
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:49:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Burlington

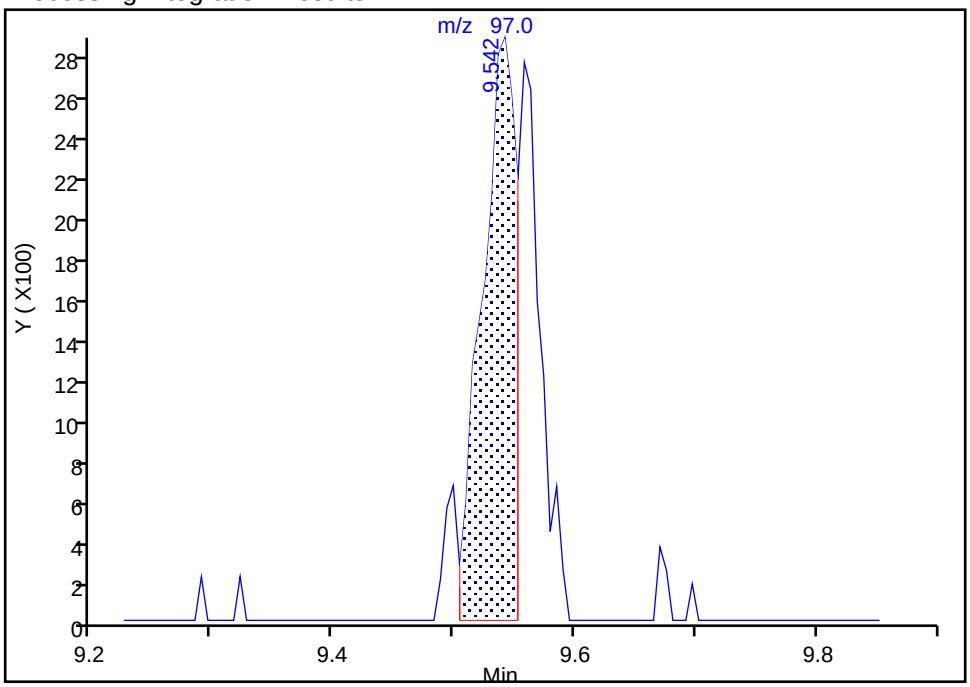
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D | | | | |
| Injection Date: | 27-Nov-2018 20:22:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 3 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

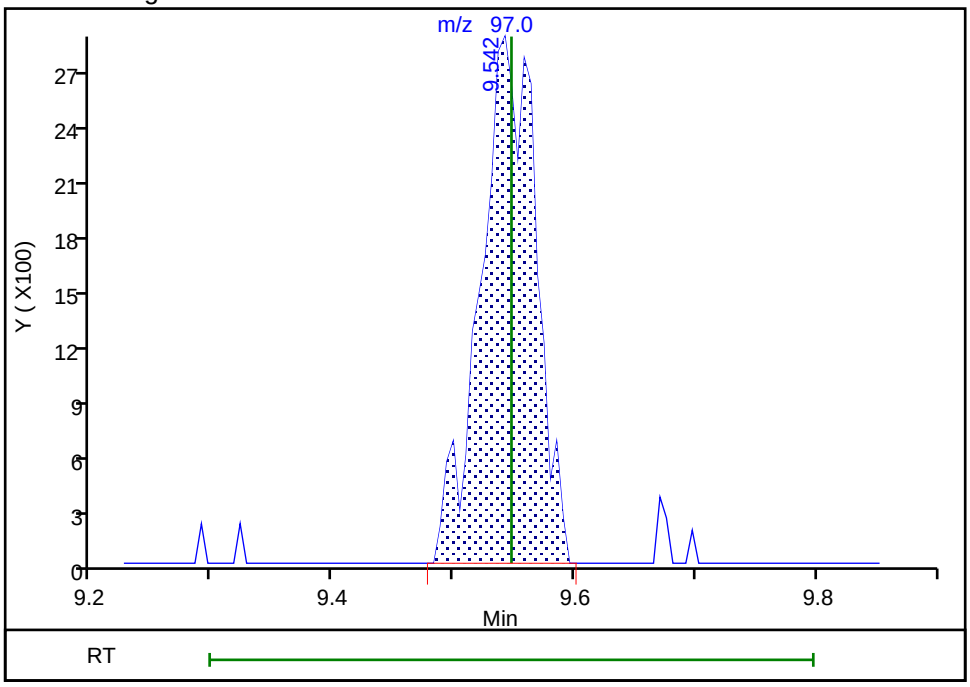
Processing Integration Results

RT: 9.54
Area: 5715
Amount: 0.021270
Amount Units: ppb v/v




Manual Integration Results

RT: 9.54
Area: 9215
Amount: 0.032142
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:52:18

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

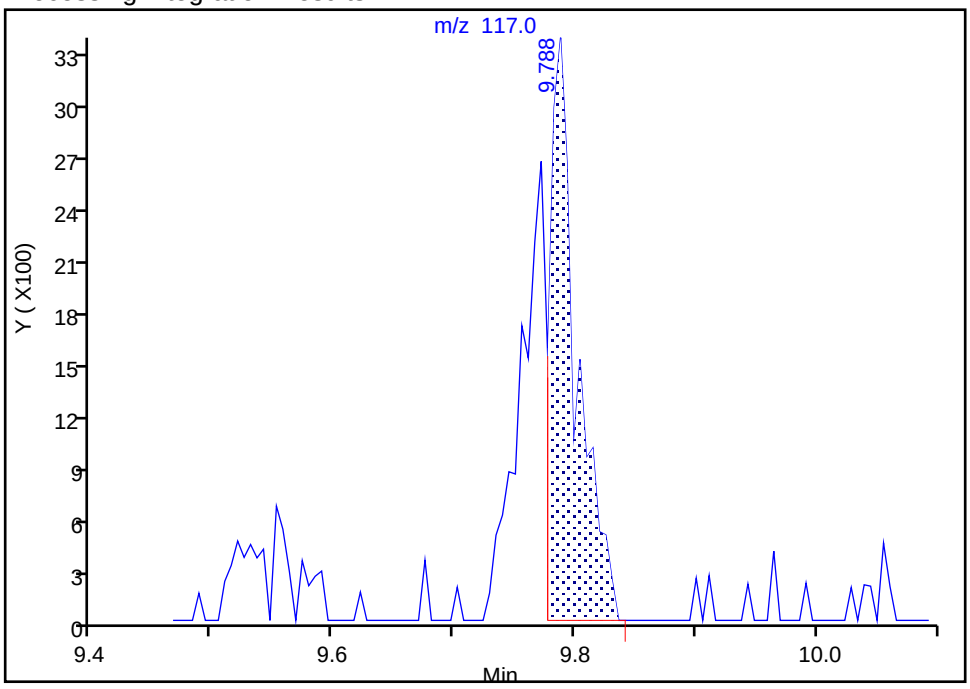
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D | | | | |
| Injection Date: | 27-Nov-2018 20:22:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 3 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 45 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

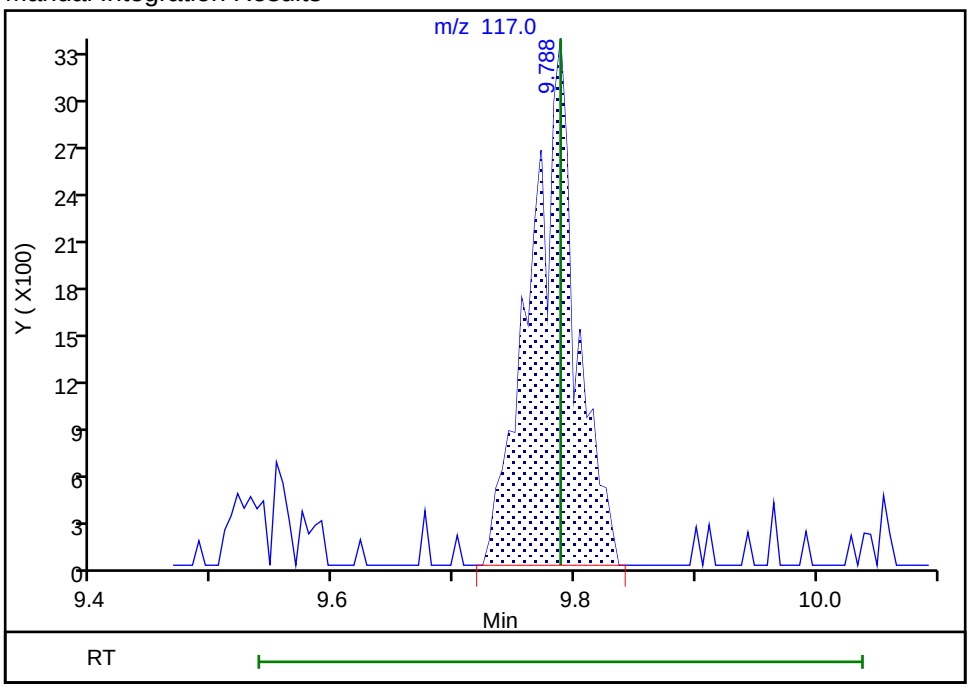
Processing Integration Results

RT: 9.79
Area: 5174
Amount: 0.017611
Amount Units: ppb v/v




Manual Integration Results

RT: 9.79
Area: 8699
Amount: 0.028396
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:53:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

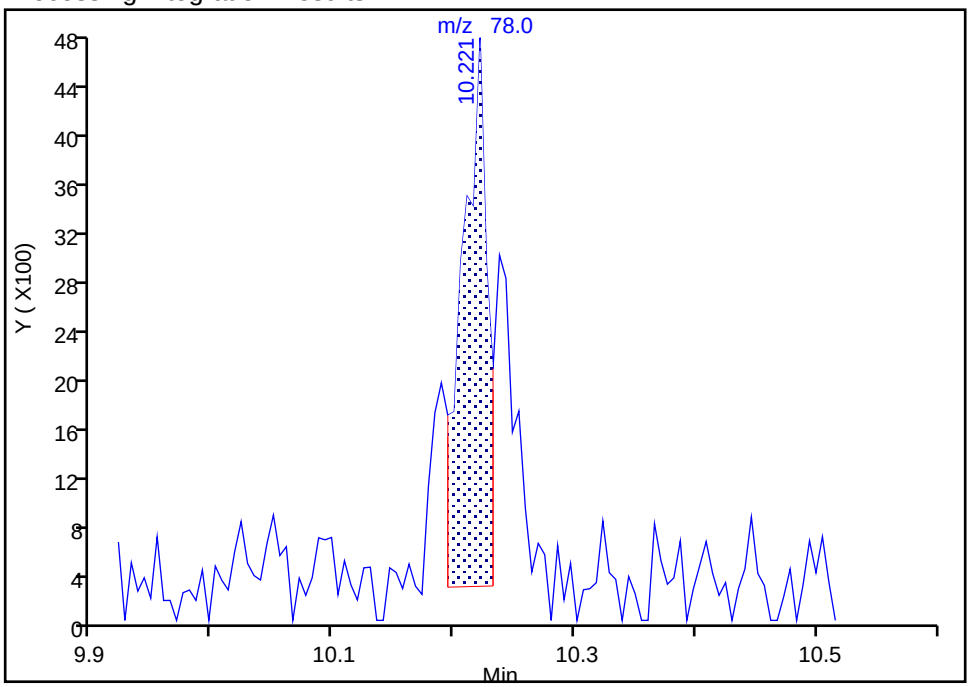
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 47 Benzene, CAS: 71-43-2

Signal: 1

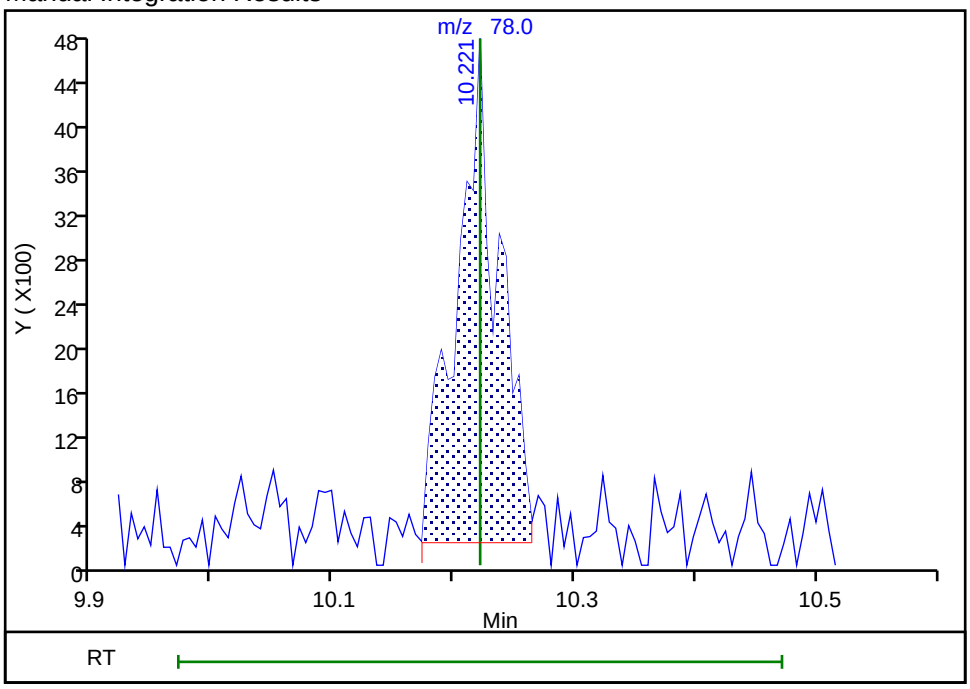
Processing Integration Results

RT: 10.22
Area: 6577
Amount: 0.023938
Amount Units: ppb v/v




Manual Integration Results

RT: 10.22
Area: 10981
Amount: 0.039967
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:56:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

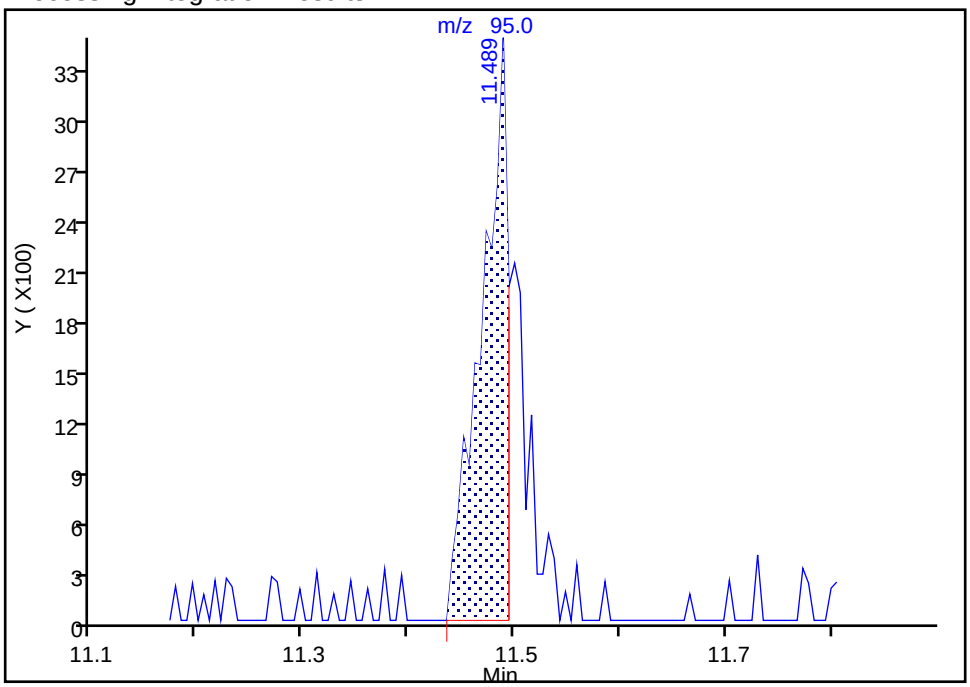
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D | | | | |
| Injection Date: | 27-Nov-2018 20:22:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 3 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Signal: 1

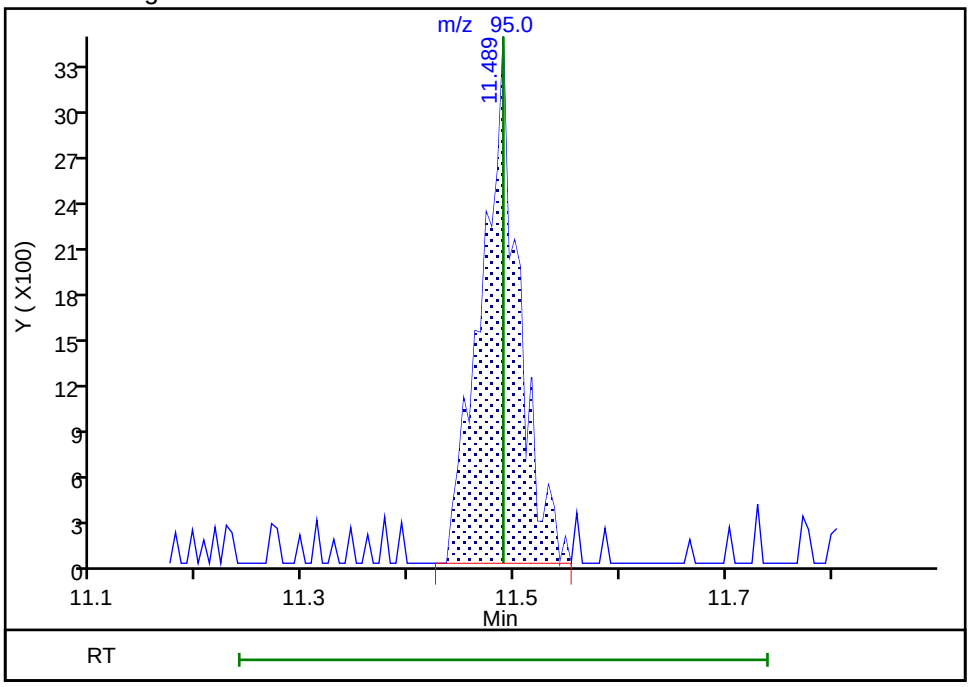
Processing Integration Results

RT: 11.49
Area: 5887
Amount: 0.034371
Amount Units: ppb v/v




Manual Integration Results

RT: 11.49
Area: 8278
Amount: 0.046041
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:57:42

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

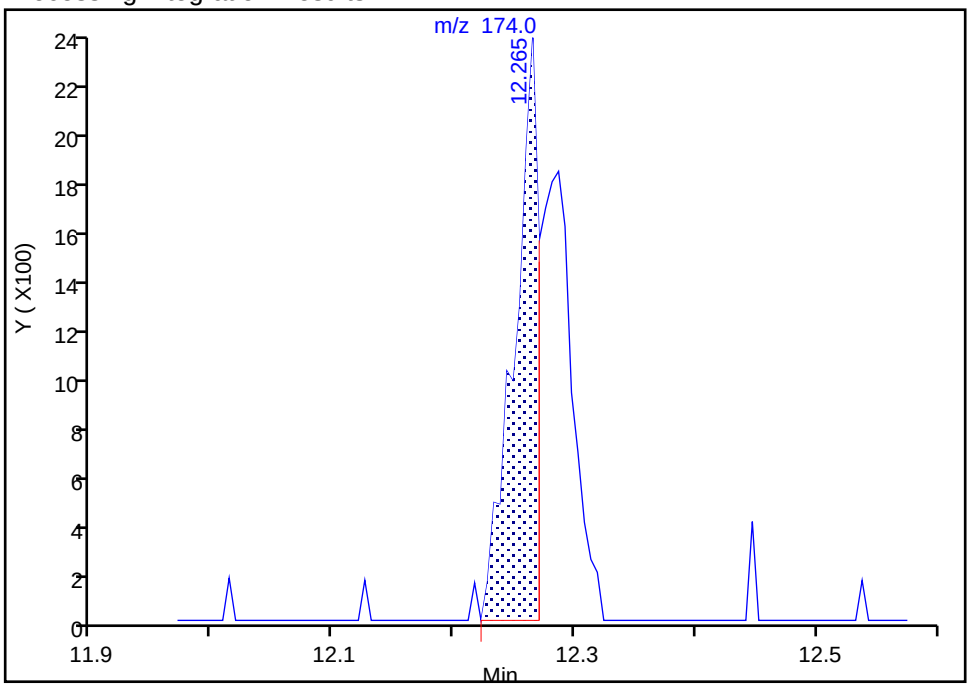
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 57 Dibromomethane, CAS: 74-95-3

Signal: 1

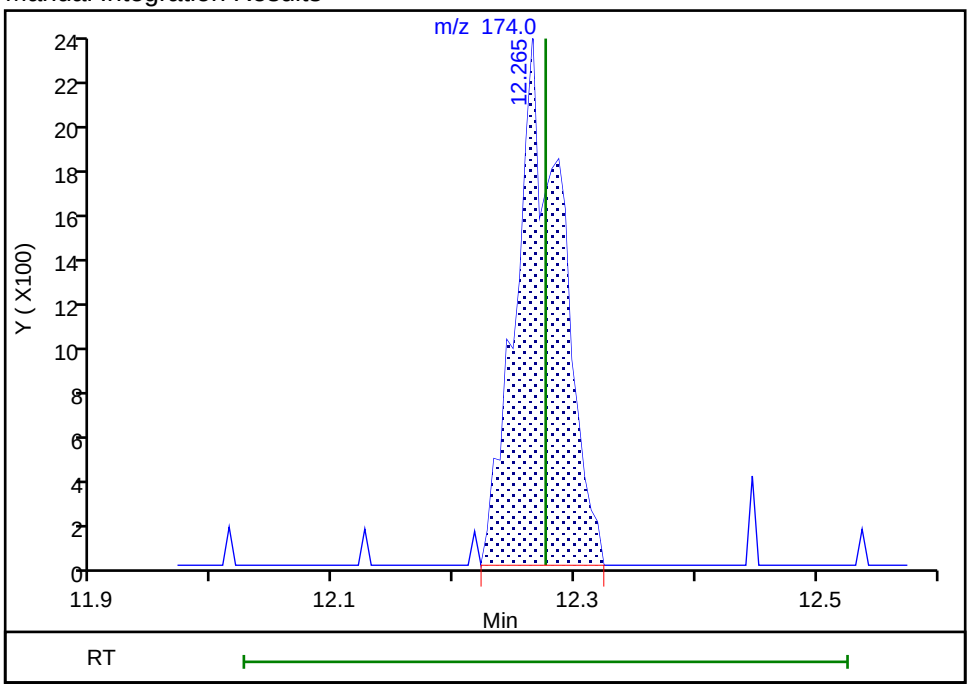
Processing Integration Results

RT: 12.27
Area: 3287
Amount: 0.022445
Amount Units: ppb v/v




Manual Integration Results

RT: 12.27
Area: 6295
Amount: 0.037991
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:58:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

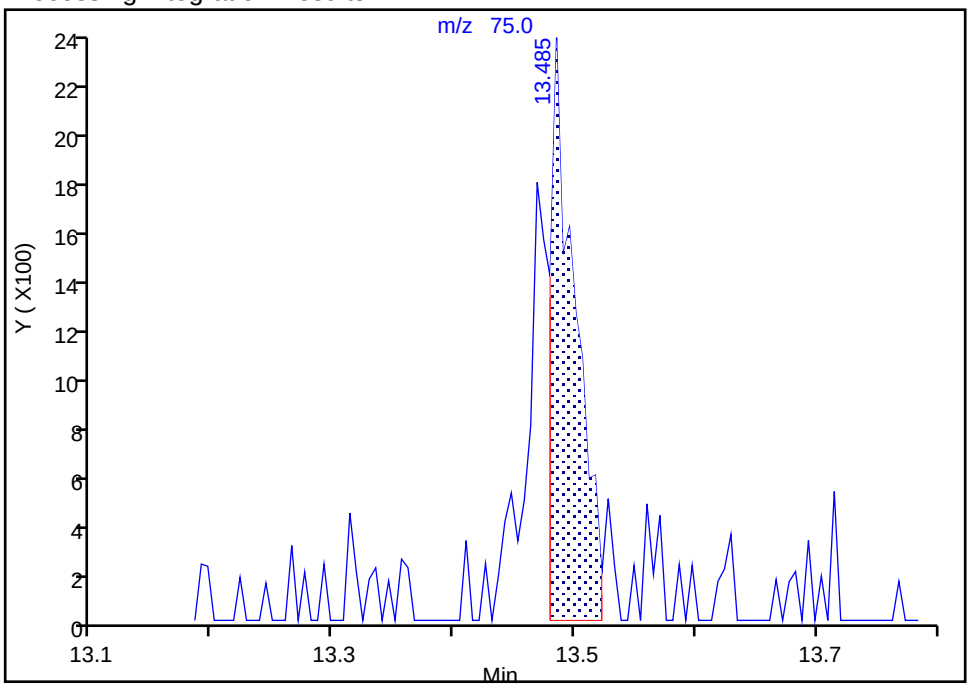
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

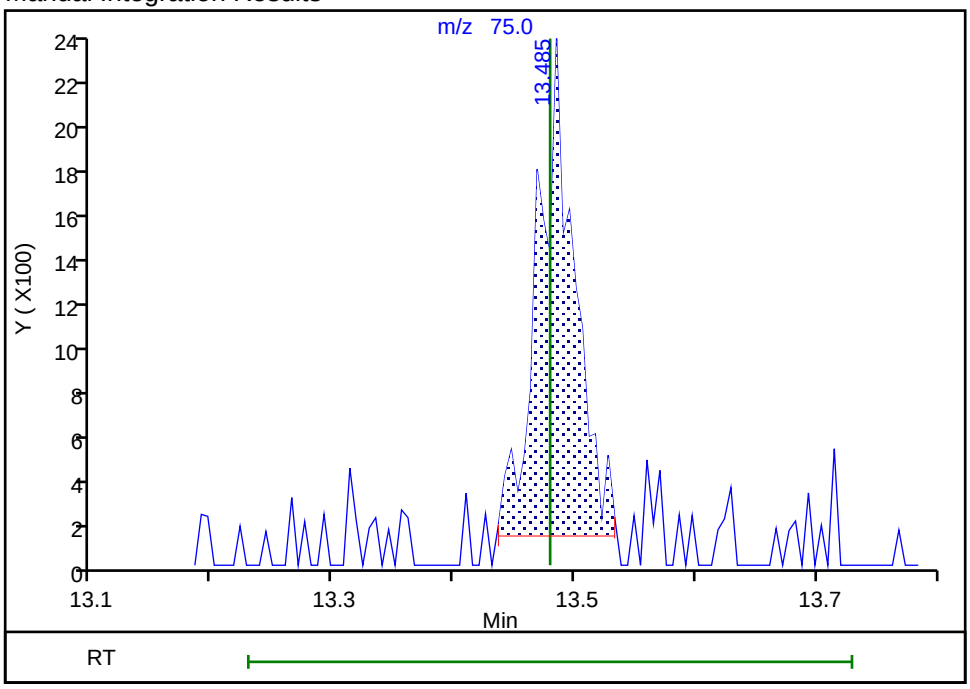
Processing Integration Results

RT: 13.48
Area: 3365
Amount: 0.020476
Amount Units: ppb v/v




Manual Integration Results

RT: 13.48
Area: 4723
Amount: 0.027321
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 08:59:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

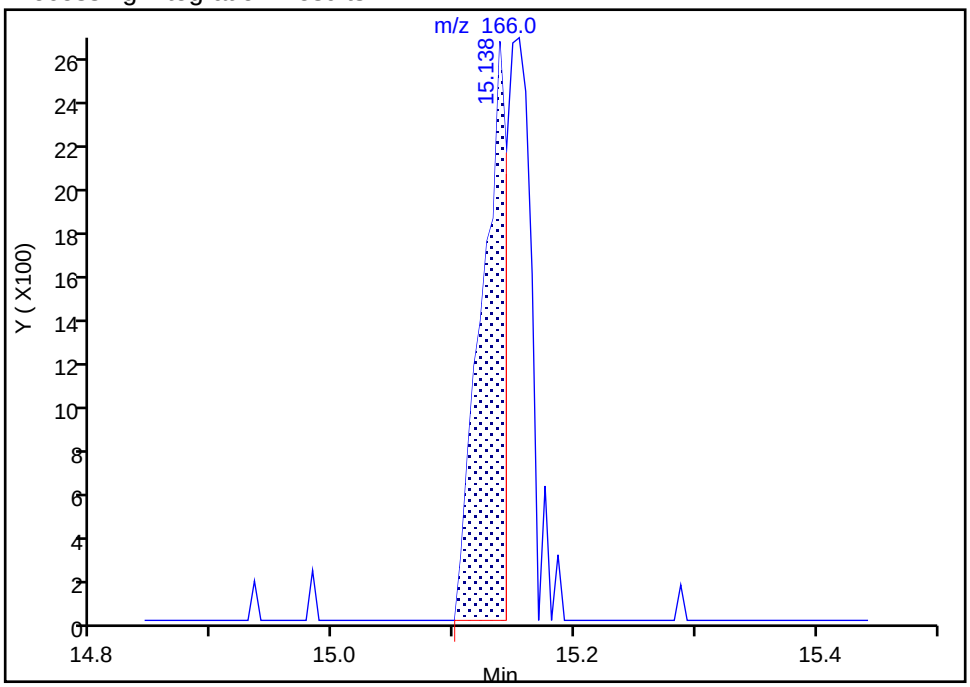
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

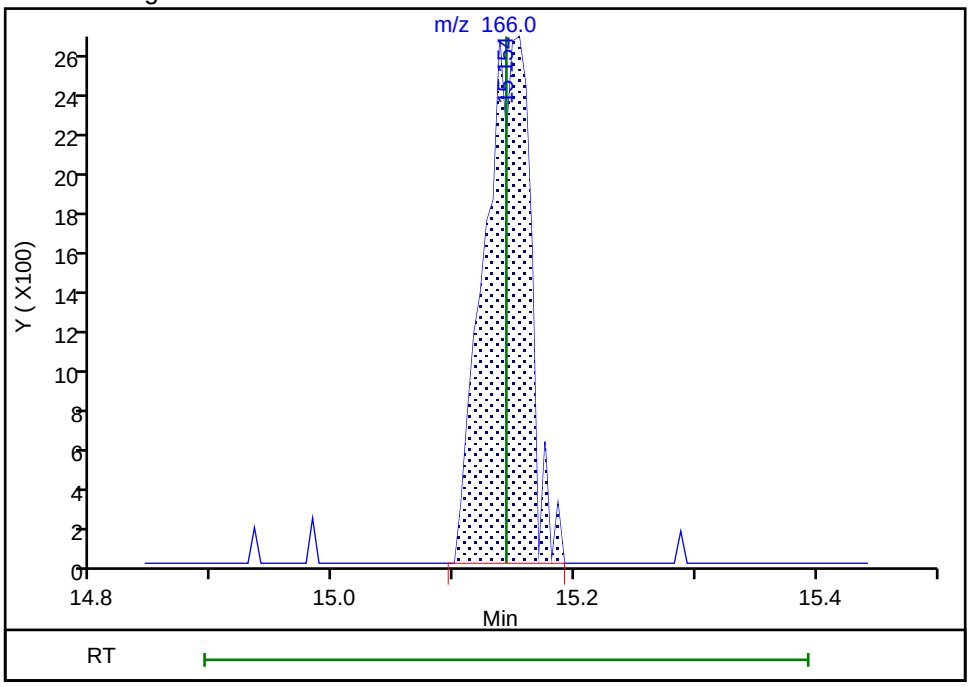
Processing Integration Results

RT: 15.14
Area: 3825
Amount: 0.017899
Amount Units: ppb v/v




Manual Integration Results

RT: 15.15
Area: 7097
Amount: 0.031491
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:00:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

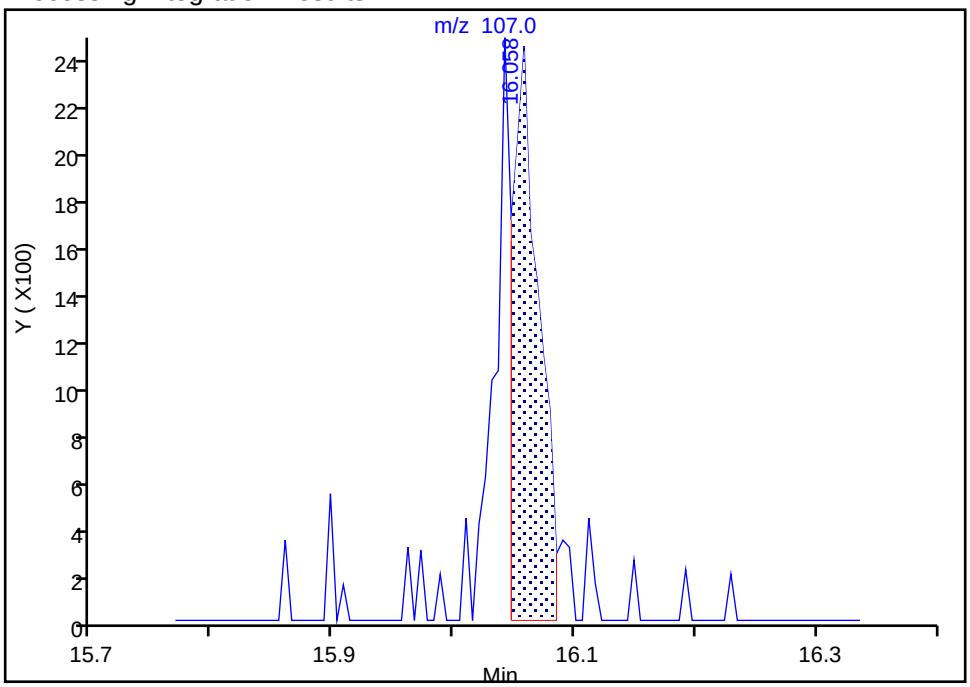
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D | | | | |
| Injection Date: | 27-Nov-2018 20:22:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 3 | Worklist Smp#: | 4 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 72 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

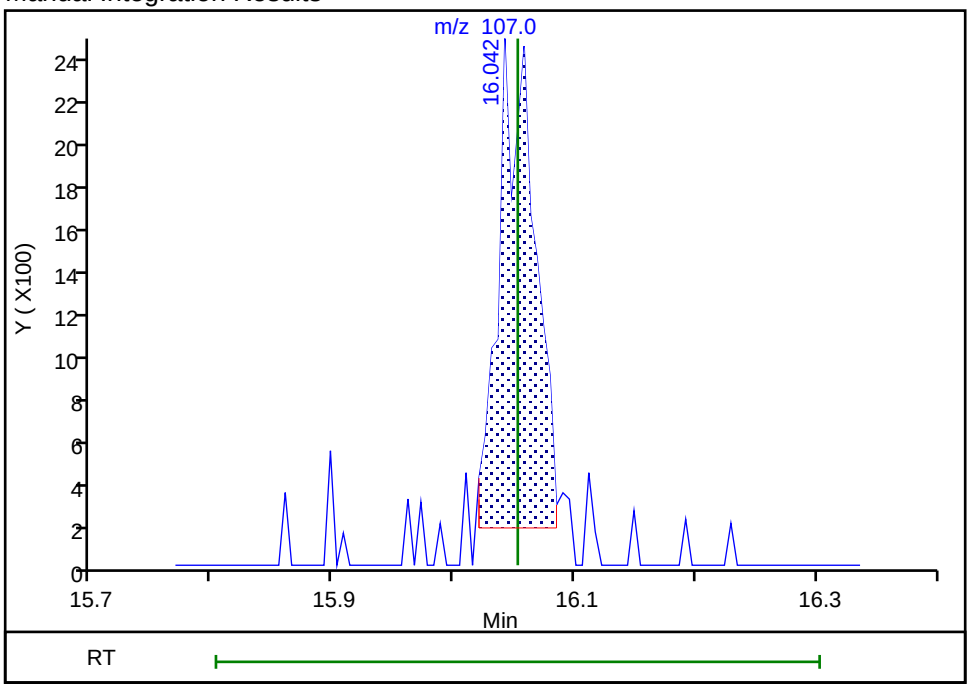
Processing Integration Results

RT: 16.06
Area: 3709
Amount: 0.018037
Amount Units: ppb v/v




Manual Integration Results

RT: 16.04
Area: 4765
Amount: 0.023172
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:02:24

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Nov-2018 21:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-005
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:32 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: mickd Date: 28-Nov-2018 09:17:21

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 95 | 19449 | 0.2004 | 0.2809 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 78417 | 0.2004 | 0.2096 | |
| 3 Chlorodifluoromethane | 51 | 3.181 | 3.176 | 0.005 | 96 | 31355 | 0.2004 | 0.1969 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 90 | 58316 | 0.2004 | 0.2071 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 16676 | 0.2004 | 0.2291 | |
| 6 Butane | 43 | 3.609 | 3.604 | 0.005 | 98 | 21809 | 0.2004 | 0.2226 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 97 | 16747 | 0.2004 | 0.1911 | |
| 8 Butadiene | 54 | 3.689 | 3.689 | 0.000 | 89 | 10959 | 0.2004 | 0.2010 | |
| 10 Bromomethane | 94 | 4.219 | 4.208 | 0.011 | 98 | 19363 | 0.2004 | 0.1914 | |
| 11 Chloroethane | 64 | 4.396 | 4.380 | 0.016 | 79 | 6919 | 0.2004 | 0.2052 | |
| 12 2-Methylbutane | 43 | 4.444 | 4.438 | 0.006 | 80 | 13287 | 0.2004 | 0.2054 | |
| 13 Vinyl bromide | 106 | 4.690 | 4.685 | 0.006 | 97 | 18879 | 0.2004 | 0.1887 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 57821 | 0.2004 | 0.1956 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 96 | 22871 | 0.2004 | 0.2336 | |
| 17 Ethanol | 45 | 5.236 | 5.209 | 0.027 | 94 | 7623 | 0.4009 | 0.3759 | |
| 18 Ethyl ether | 59 | 5.310 | 5.278 | 0.032 | 80 | 6134 | 0.2004 | 0.1786 | |
| 19 Acrolein | 56 | 5.621 | 5.594 | 0.027 | 34 | 3576 | 0.2004 | 0.2719 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 95 | 40902 | 0.2004 | 0.1964 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 95 | 20203 | 0.2004 | 0.2204 | |
| 22 Acetone | 43 | 5.888 | 5.856 | 0.032 | 99 | 32938 | 0.2004 | 0.4219 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 44748 | 0.2004 | 0.1898 | |
| 24 Isopropyl alcohol | 45 | 6.140 | 6.097 | 0.043 | 99 | 12784 | 0.2004 | 0.1482 | |
| 25 3-Chloro-1-propene | 41 | 6.300 | 6.311 | -0.011 | 97 | 13655 | 0.2004 | 0.2002 | |
| 26 Acetonitrile | 41 | 6.391 | 6.423 | -0.032 | 52 | 1036 | 0.2004 | 0.0363 | |
| 27 Methylene Chloride | 49 | 6.562 | 6.557 | 0.005 | 96 | 18915 | 0.2004 | 0.2286 | |
| 28 2-Methyl-2-propanol | 59 | 6.830 | 6.771 | 0.059 | 90 | 17479 | 0.2004 | 0.1325 | |
| 29 Methyl tert-butyl ether | 73 | 6.969 | 6.937 | 0.032 | 85 | 34053 | 0.2004 | 0.1911 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.937 | 6.947 | -0.010 | 95 | 22236 | 0.2004 | 0.2002 | |
| 32 Acrylonitrile | 53 | 7.087 | 7.076 | 0.010 | 69 | 3812 | 0.2004 | 0.1223 | |
| 33 Hexane | 57 | 7.279 | 7.290 | -0.011 | 92 | 17454 | 0.2004 | 0.1971 | |
| 34 1,1-Dichloroethane | 63 | 7.723 | 7.728 | -0.005 | 98 | 26553 | 0.2004 | 0.1852 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.809 | 7.793 | 0.016 | 97 | 16990 | 0.2004 | 0.1567 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.724 | 8.734 | -0.010 | 91 | 16381 | 0.2004 | 0.1886 | |
| 38 2-Butanone (MEK) | 72 | 8.841 | 8.793 | 0.048 | 99 | 5466 | 0.2004 | 0.1951 | M |
| 39 Ethyl acetate | 88 | 8.868 | 8.831 | 0.037 | 93 | 179 | 0.2004 | 0.0448 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.162 | -0.005 | 76 | 1002822 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.242 | 9.210 | 0.032 | 71 | 4668 | 0.2004 | 0.0924 | |
| 42 Chloroform | 83 | 9.269 | 9.275 | -0.006 | 96 | 40034 | 0.2004 | 0.1911 | |
| 43 Cyclohexane | 84 | 9.531 | 9.537 | -0.006 | 95 | 20662 | 0.2004 | 0.2032 | M |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.547 | -0.005 | 94 | 45084 | 0.2004 | 0.1832 | M |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 0.4009 | 0.3888 | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.788 | -0.005 | 97 | 44908 | 0.2004 | 0.1708 | |
| 46 Isooctane | 57 | 10.205 | 10.205 | 0.000 | 96 | 62654 | 0.2004 | 0.1863 | |
| 47 Benzene | 78 | 10.221 | 10.221 | 0.000 | 97 | 43168 | 0.2004 | 0.1830 | |
| 48 1,2-Dichloroethane | 62 | 10.393 | 10.387 | 0.006 | 97 | 24972 | 0.2004 | 0.1831 | |
| 49 n-Heptane | 43 | 10.580 | 10.575 | 0.005 | 82 | 21959 | 0.2004 | 0.1810 | |
| * 50 1,4-Difluorobenzene | 114 | 11.019 | 11.024 | -0.005 | 94 | 4429103 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.511 | 11.463 | 0.048 | 73 | 7536 | 0.2004 | 0.1889 | |
| 53 Trichloroethene | 95 | 11.484 | 11.489 | -0.005 | 95 | 27569 | 0.2004 | 0.1786 | |
| 54 1,2-Dichloropropane | 63 | 12.024 | 12.024 | 0.000 | 90 | 14866 | 0.2004 | 0.1788 | M |
| 55 Methyl methacrylate | 69 | 12.228 | 12.217 | 0.011 | 67 | 7691 | 0.2004 | 0.1120 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 23121576 | 0.2004 | 0 | |
| 57 Dibromomethane | 174 | 12.276 | 12.276 | 0.000 | 95 | 24779 | 0.2004 | 0.1742 | M |
| 56 1,4-Dioxane | 88 | 12.351 | 12.281 | 0.070 | 72 | 6263 | 0.2004 | 0.1445 | |
| 58 Dichlorobromomethane | 83 | 12.565 | 12.565 | 0.000 | 98 | 39756 | 0.2004 | 0.1659 | M |
| 60 cis-1,3-Dichloropropene | 75 | 13.479 | 13.479 | 0.000 | 94 | 25306 | 0.2004 | 0.1705 | M |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.827 | 13.795 | 0.032 | 99 | 19886 | 0.2004 | 0.1297 | |
| 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 91 | 27235 | 0.2004 | 0.1629 | M |
| 64 n-Octane | 43 | 14.164 | 14.153 | 0.011 | 88 | 30772 | 0.2004 | 0.1724 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 25371200 | 0.2004 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 90 | 23930 | 0.2004 | 0.1640 | |
| 67 1,1,2-Trichloroethane | 83 | 15.025 | 15.031 | -0.006 | 97 | 15065 | 0.2004 | 0.1665 | |
| 68 Tetrachloroethene | 166 | 15.143 | 15.143 | 0.000 | 94 | 34467 | 0.2004 | 0.1721 | |
| 69 2-Hexanone | 43 | 15.539 | 15.518 | 0.021 | 94 | 19848 | 0.2004 | 0.1350 | |
| 71 Chlorodibromomethane | 129 | 15.785 | 15.790 | -0.005 | 95 | 35343 | 0.2004 | 0.1461 | |
| 72 Ethylene Dibromide | 107 | 16.047 | 16.053 | -0.006 | 96 | 27011 | 0.2004 | 0.1478 | |
| * 74 Chlorobenzene-d5 | 117 | 16.962 | 16.962 | 0.000 | 86 | 4128563 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 92 | 40954 | 0.2004 | 0.1592 | |
| 76 Ethylbenzene | 91 | 17.192 | 17.192 | 0.000 | 98 | 59235 | 0.2004 | 0.1573 | |
| 77 n-Nonane | 57 | 17.363 | 17.358 | 0.005 | 88 | 27380 | 0.2004 | 0.1663 | |
| 78 m-Xylene & p-Xylene | 106 | 17.449 | 17.449 | 0.000 | 0 | 48888 | 0.4009 | 0.3203 | |
| 79 o-Xylene | 106 | 18.299 | 18.294 | 0.005 | 96 | 22469 | 0.2004 | 0.1549 | M |
| 80 Styrene | 104 | 18.348 | 18.348 | 0.000 | 96 | 28896 | 0.2004 | 0.1301 | |
| 81 Bromoform | 173 | 18.781 | 18.786 | -0.005 | 94 | 29102 | 0.2004 | 0.1330 | M |
| 82 Isopropylbenzene | 105 | 19.054 | 19.048 | 0.006 | 96 | 61695 | 0.2004 | 0.1454 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 0.6013 | 0.4751 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.765 | 19.771 | -0.006 | 96 | 37089 | 0.2004 | 0.1602 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 99 | 73558 | 0.2004 | 0.1456 | |
| 86 1,2,3-Trichloropropane | 75 | 19.862 | 19.867 | -0.005 | 94 | 32800 | 0.2004 | 0.1669 | |
| 89 2-Chlorotoluene | 91 | 20.049 | 20.054 | -0.005 | 96 | 59613 | 0.2004 | 0.1563 | |
| 88 4-Ethyltoluene | 105 | 20.060 | 20.060 | 0.000 | 86 | 59515 | 0.2004 | 0.1384 | |
| 87 n-Decane | 57 | 20.081 | 20.086 | -0.005 | 93 | 27583 | 0.2004 | 0.1354 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.177 | 0.000 | 92 | 53306 | 0.2004 | 0.1449 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.578 | 20.573 | 0.005 | 83 | 20195 | 0.2004 | 0.1168 | |
| 92 tert-Butylbenzene | 119 | 20.696 | 20.702 | -0.006 | 92 | 48103 | 0.2004 | 0.1398 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.808 | 20.803 | 0.005 | 98 | 51172 | 0.2004 | 0.1410 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 98 | 71845 | 0.2004 | 0.1408 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | 0.000 | 95 | 53198 | 0.2004 | 0.1216 | |
| 96 1,3-Dichlorobenzene | 146 | 21.274 | 21.279 | -0.005 | 88 | 44349 | 0.2004 | 0.1507 | |
| 97 1,4-Dichlorobenzene | 146 | 21.418 | 21.424 | -0.006 | 94 | 42712 | 0.2004 | 0.1518 | |
| 98 Benzyl chloride | 91 | 21.622 | 21.627 | -0.005 | 97 | 44697 | 0.2004 | 0.1287 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 97 | 54995 | 0.2004 | 0.1379 | |
| 99 Undecane | 57 | 21.916 | 21.911 | 0.005 | 94 | 25782 | 0.2004 | 0.1149 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 94 | 41264 | 0.2004 | 0.1526 | |
| 102 Dodecane | 57 | 23.441 | 23.441 | 0.000 | 94 | 22457 | 0.2004 | 0.1250 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.350 | 24.345 | 0.005 | 93 | 29589 | 0.2004 | 0.1456 | |
| 104 Hexachlorobutadiene | 225 | 24.543 | 24.537 | 0.006 | 95 | 35418 | 0.2004 | 0.1752 | M |
| 105 Naphthalene | 128 | 24.789 | 24.783 | 0.006 | 98 | 58816 | 0.2004 | 0.1493 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 92 | 27385 | 0.2004 | 0.1560 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL1w_00197 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

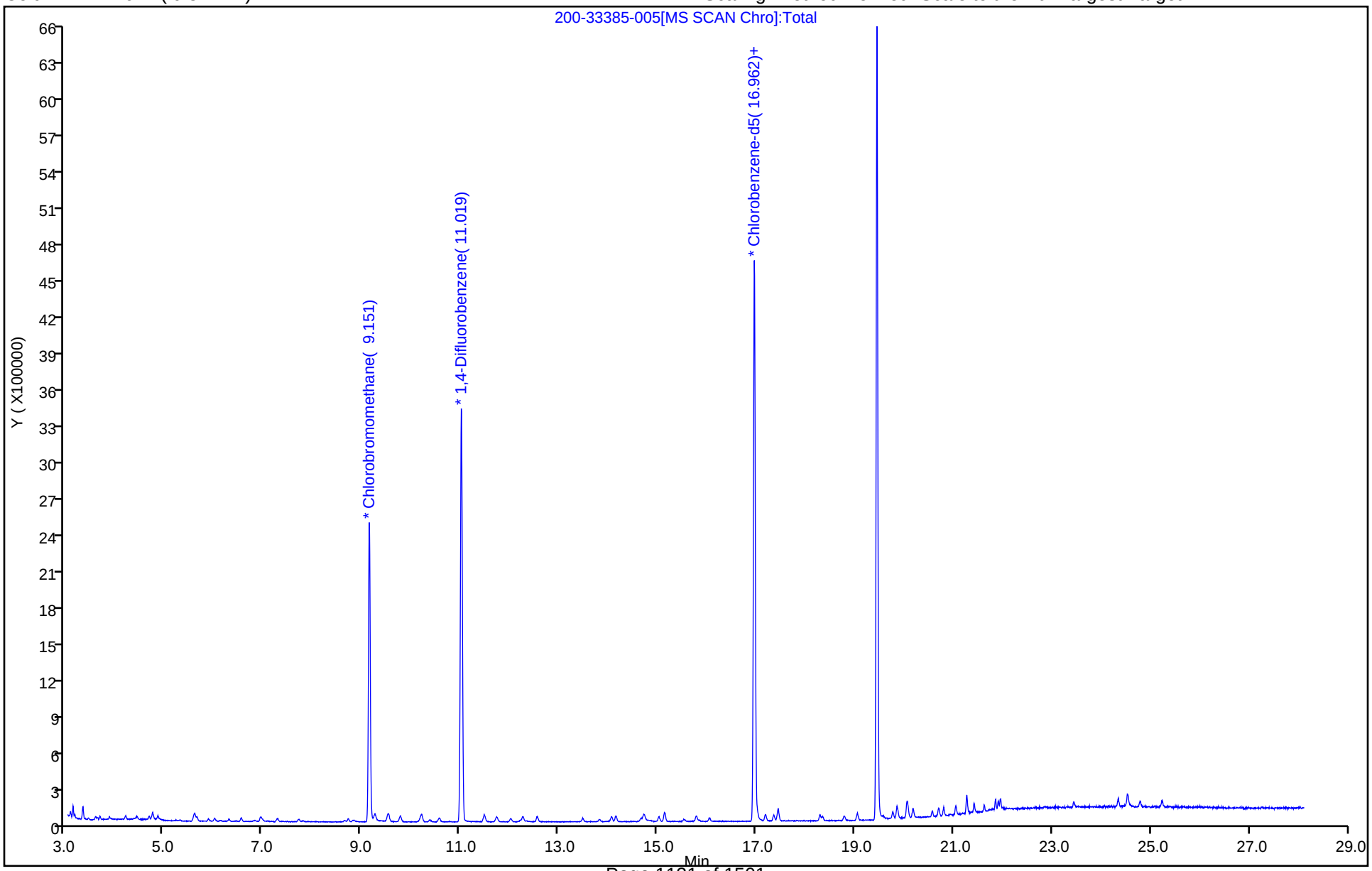
Report Date: 28-Nov-2018 11:37:33 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Nov-2018 21:13:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 4 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

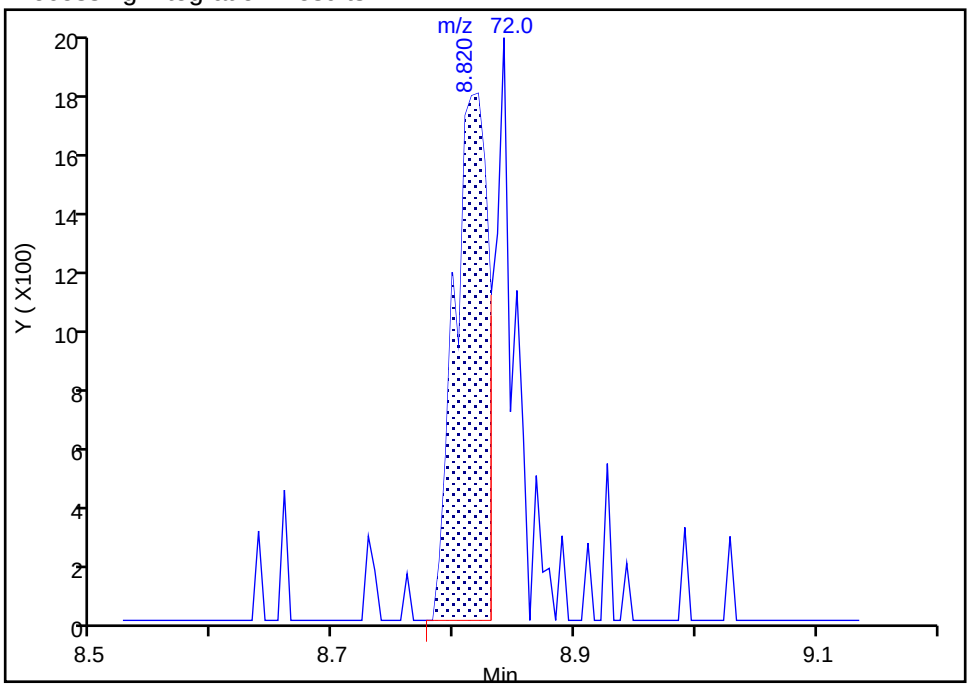
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 38 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

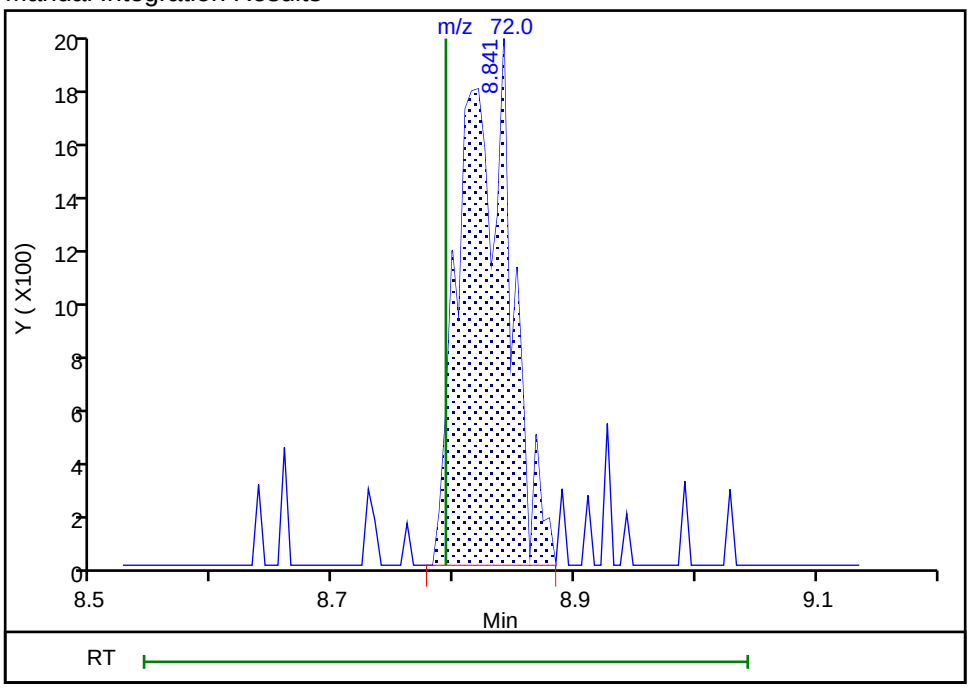
Processing Integration Results

RT: 8.82
Area: 3399
Amount: 0.121327
Amount Units: ppb v/v




Manual Integration Results

RT: 8.84
Area: 5466
Amount: 0.195108
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:07:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

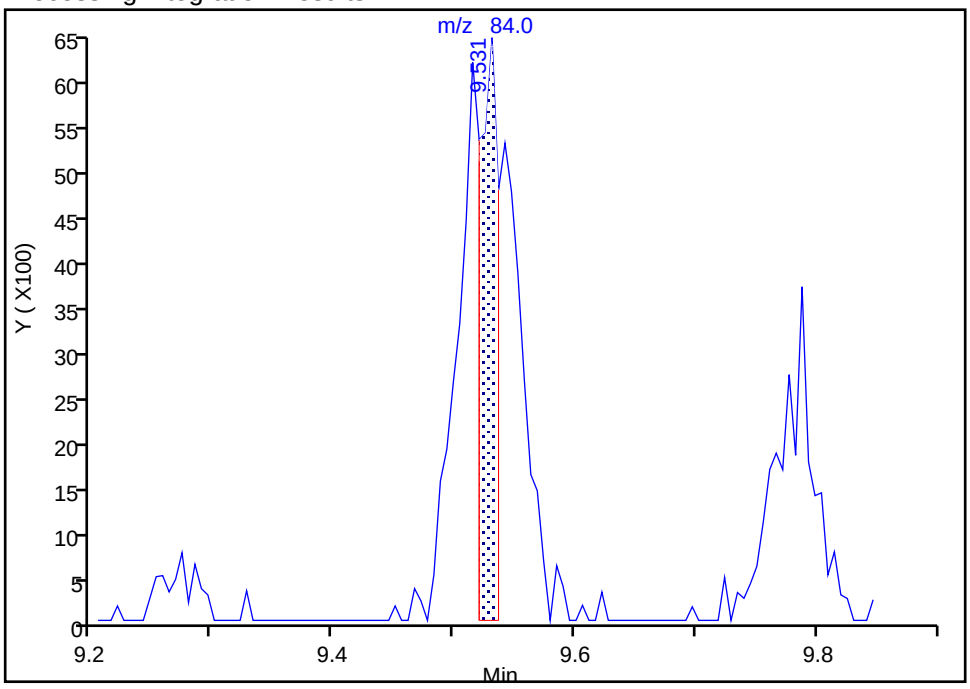
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 43 Cyclohexane, CAS: 110-82-7

Signal: 1

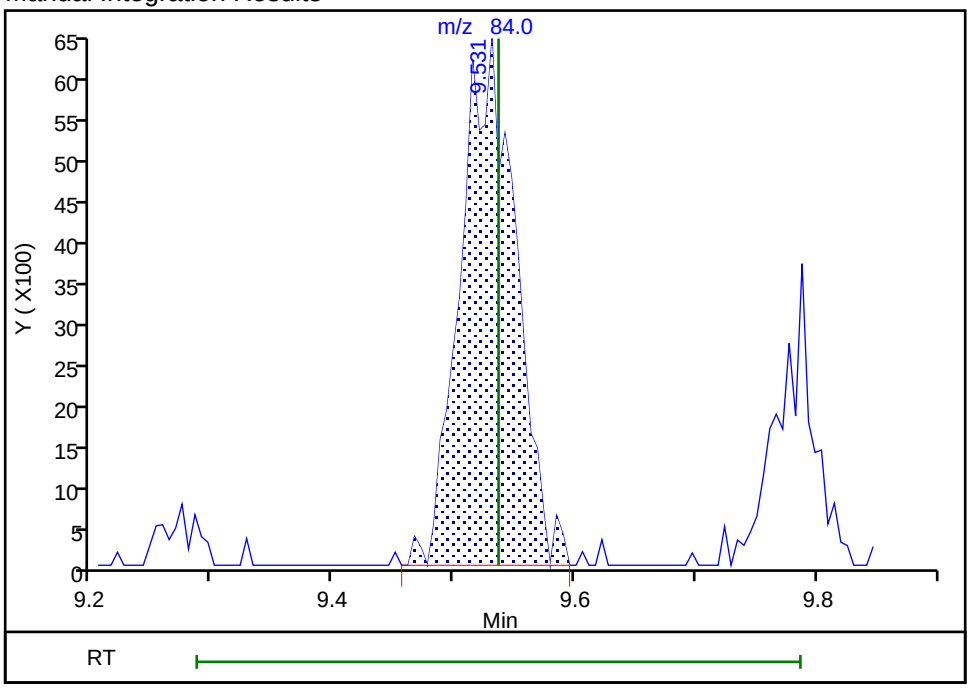
Processing Integration Results

RT: 9.53
Area: 7061
Amount: 0.076777
Amount Units: ppb v/v




Manual Integration Results

RT: 9.53
Area: 20662
Amount: 0.203243
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:09:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

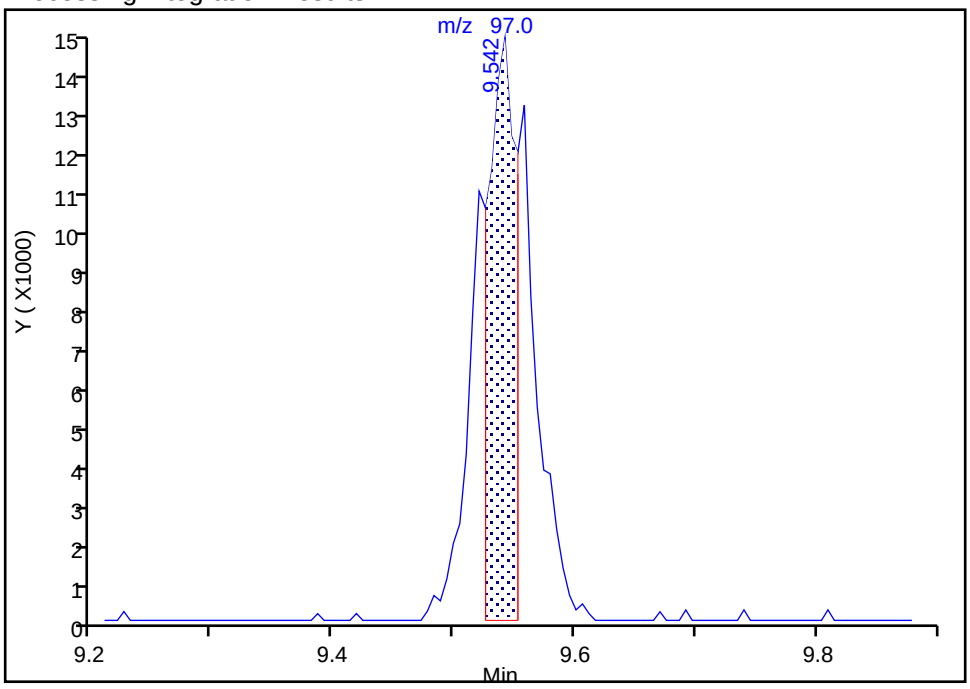
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

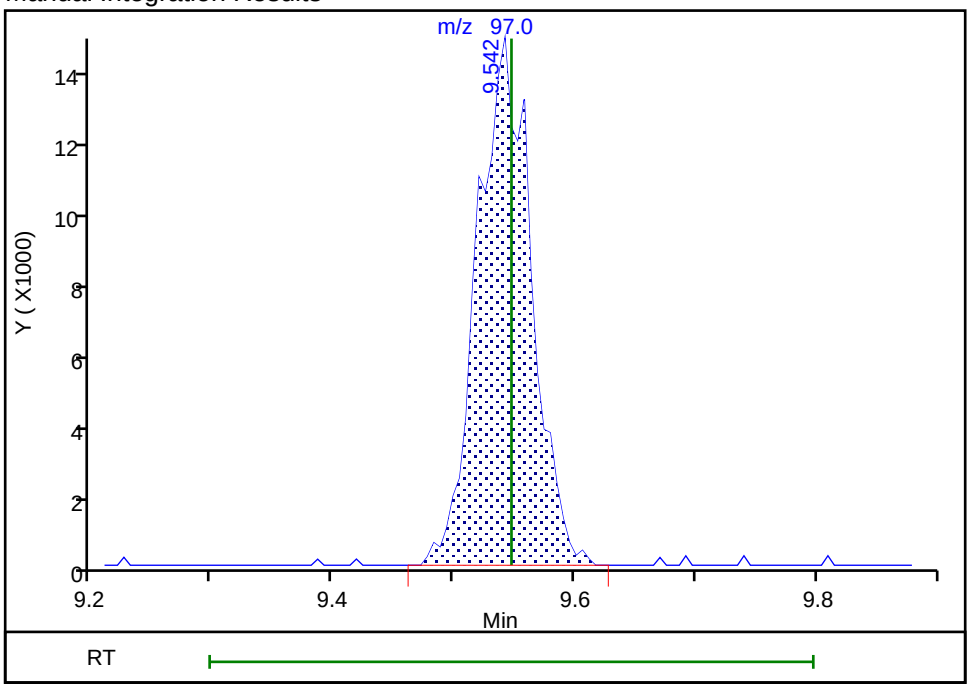
Processing Integration Results

RT: 9.54
Area: 23403
Amount: 0.101467
Amount Units: ppb v/v




Manual Integration Results

RT: 9.54
Area: 45084
Amount: 0.183194
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:09:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

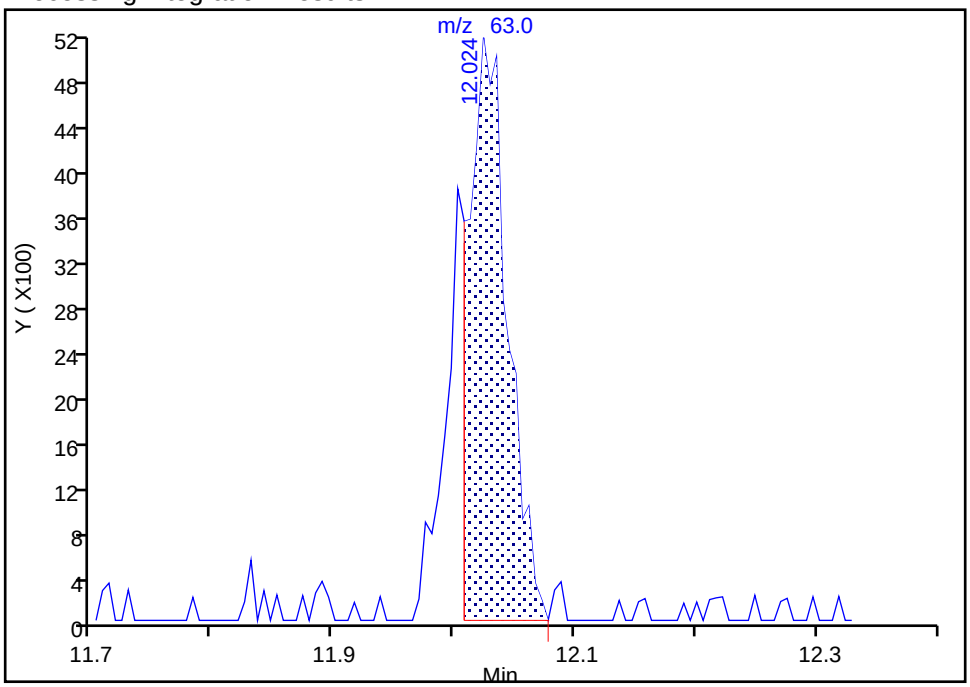
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 54 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

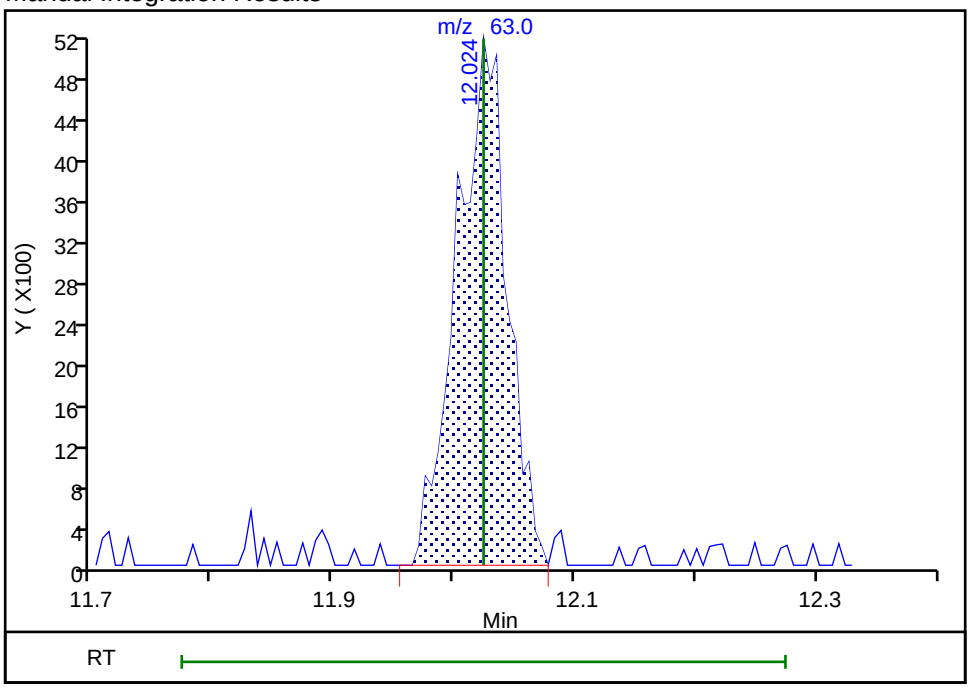
Processing Integration Results

RT: 12.02
Area: 11477
Amount: 0.142922
Amount Units: ppb v/v




Manual Integration Results

RT: 12.02
Area: 14866
Amount: 0.178798
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:10:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

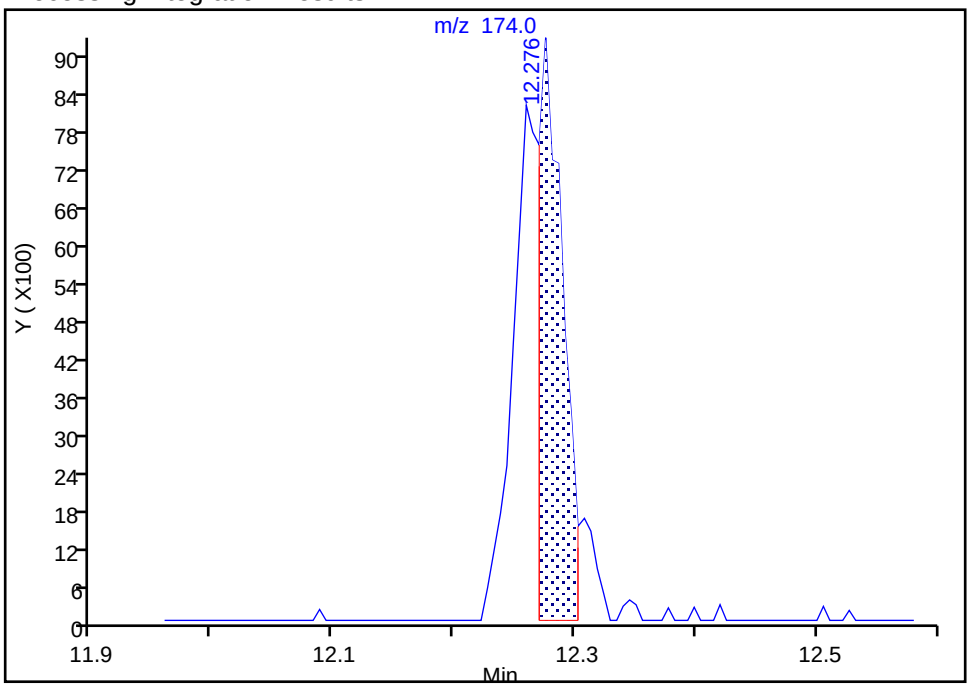
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 57 Dibromomethane, CAS: 74-95-3

Signal: 1

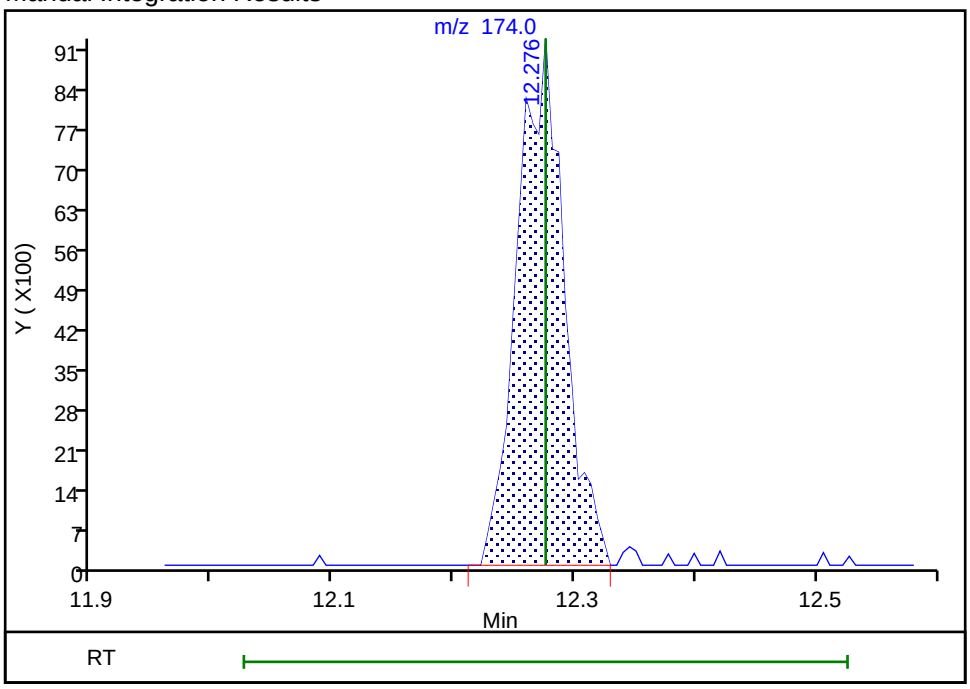
Processing Integration Results

RT: 12.28
Area: 13033
Amount: 0.096605
Amount Units: ppb v/v




Manual Integration Results

RT: 12.28
Area: 24779
Amount: 0.174212
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:11:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

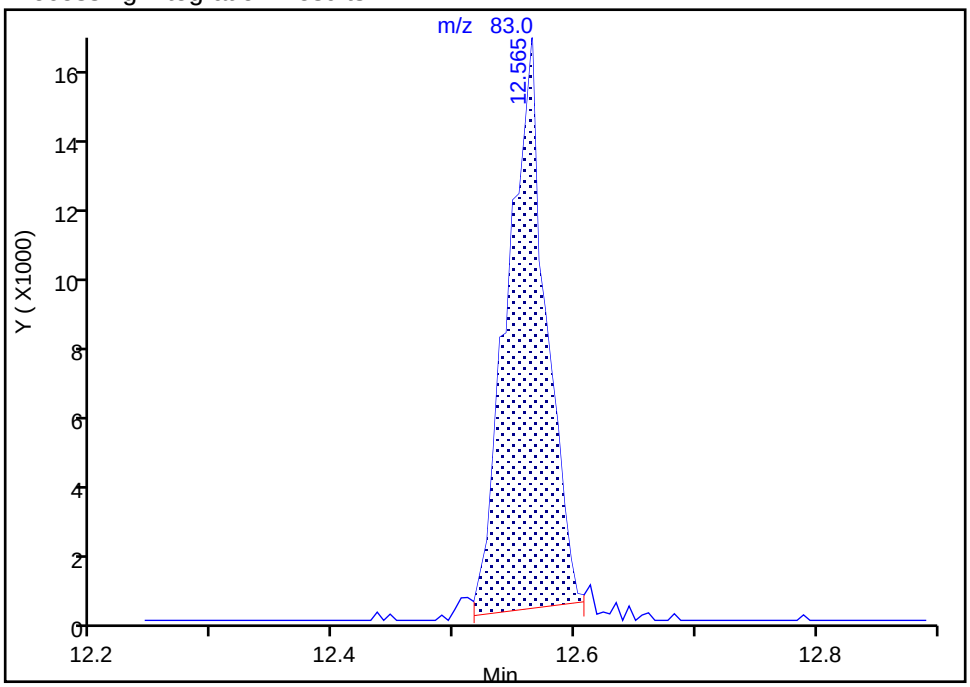
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D | | | | |
| Injection Date: | 27-Nov-2018 21:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

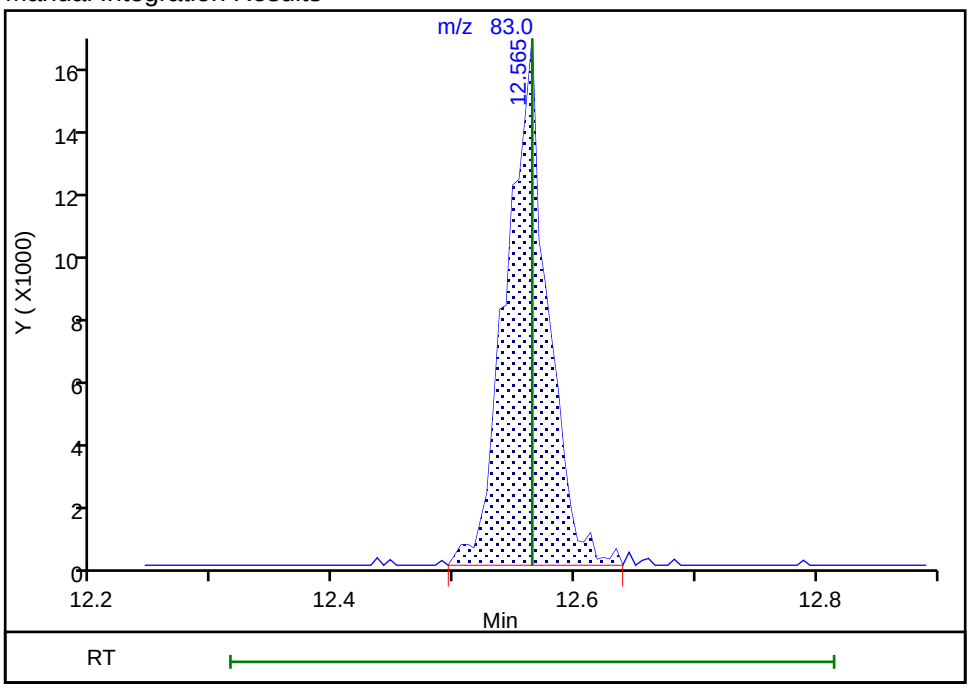
Processing Integration Results

RT: 12.56
Area: 36603
Amount: 0.154163
Amount Units: ppb v/v




Manual Integration Results

RT: 12.56
Area: 39756
Amount: 0.165873
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:12:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Burlington

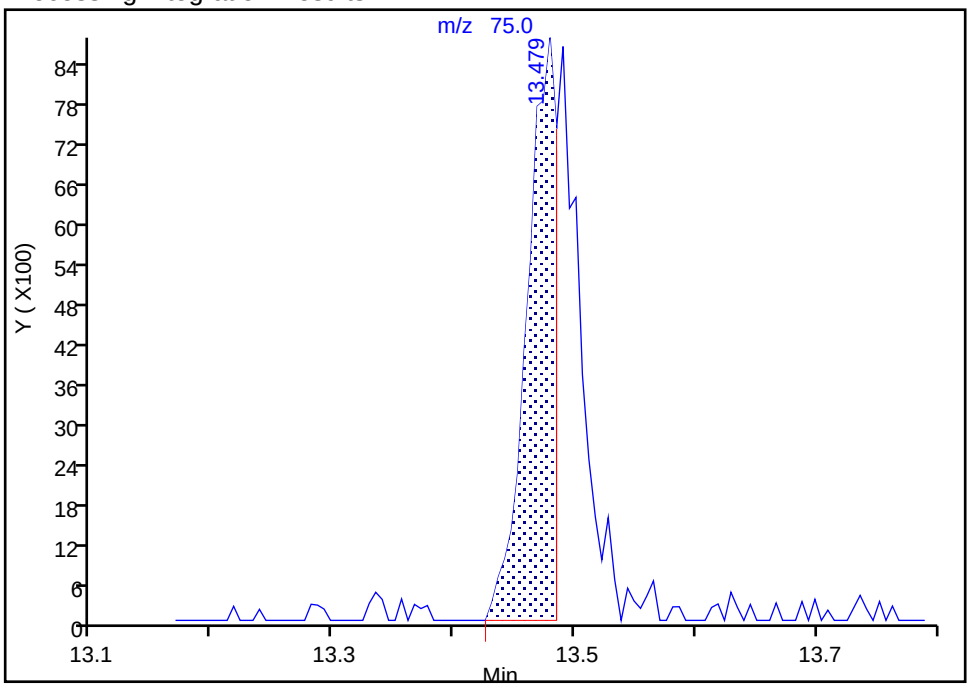
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

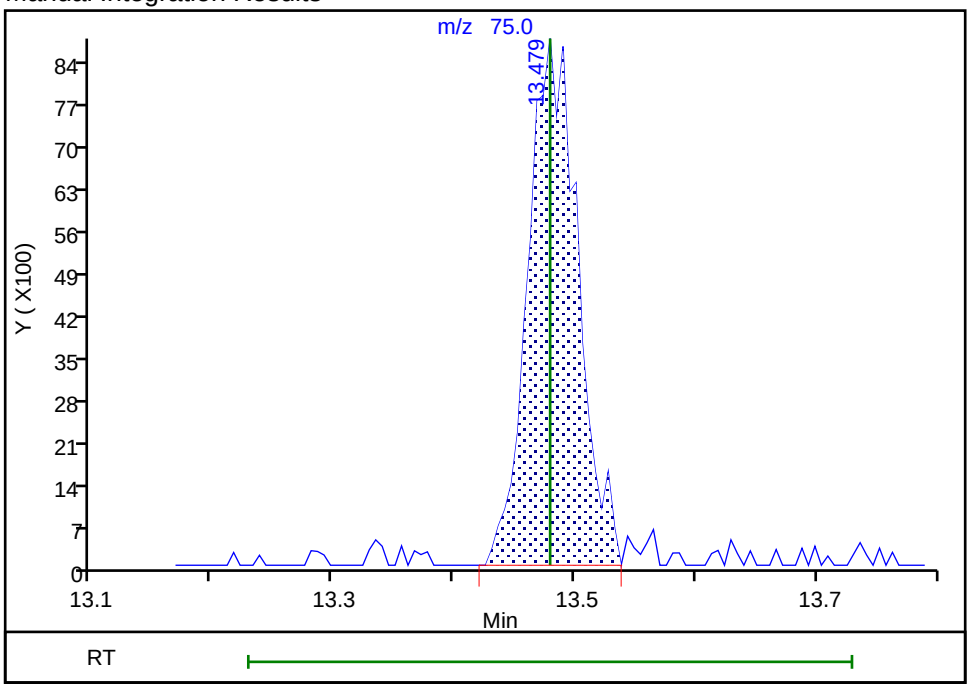
Processing Integration Results

RT: 13.48
Area: 15028
Amount: 0.106532
Amount Units: ppb v/v




Manual Integration Results

RT: 13.48
Area: 25306
Amount: 0.170536
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:13:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

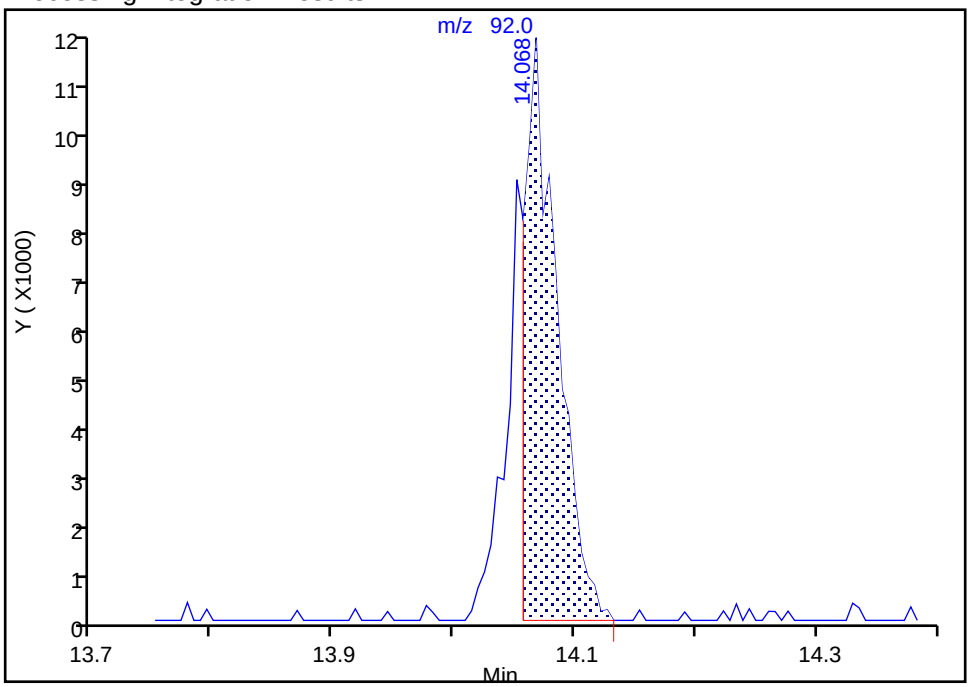
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 65 Toluene, CAS: 108-88-3

Signal: 1

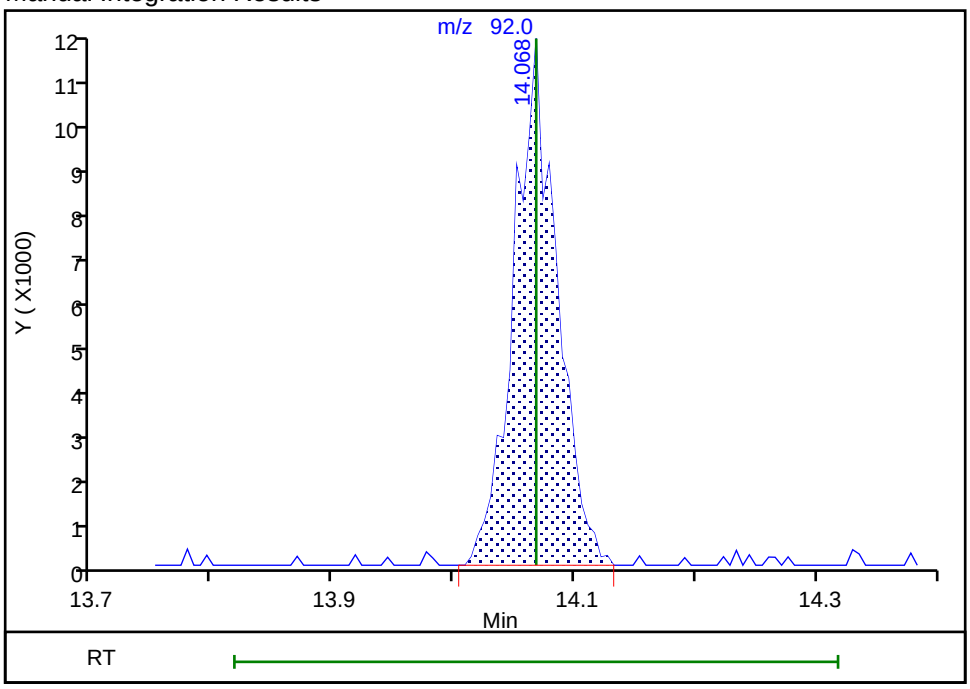
Processing Integration Results

RT: 14.07
Area: 20520
Amount: 0.126316
Amount Units: ppb v/v




Manual Integration Results

RT: 14.07
Area: 27235
Amount: 0.162855
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:13:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

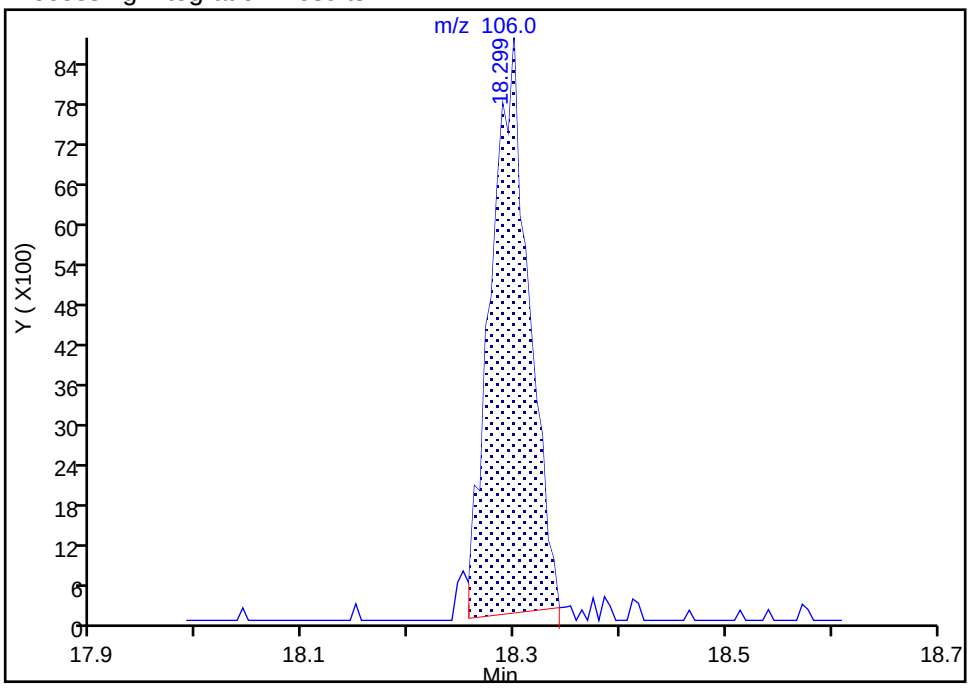
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D | | | | |
| Injection Date: | 27-Nov-2018 21:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 79 o-Xylene, CAS: 95-47-6

Signal: 1

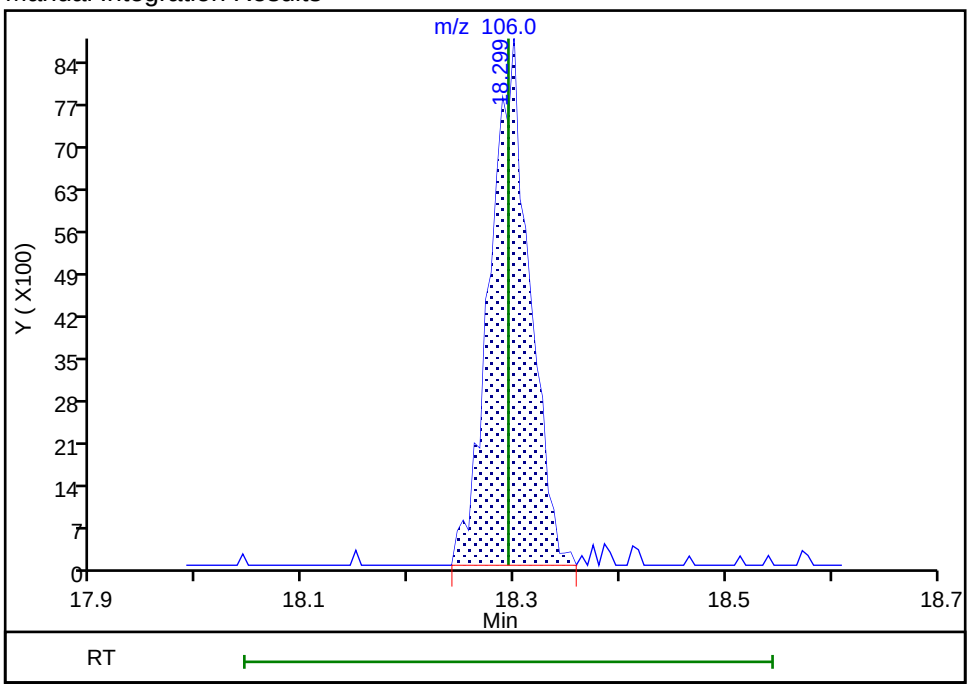
Processing Integration Results

RT: 18.30
Area: 21314
Amount: 0.147748
Amount Units: ppb v/v




Manual Integration Results

RT: 18.30
Area: 22469
Amount: 0.154871
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:15:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Burlington

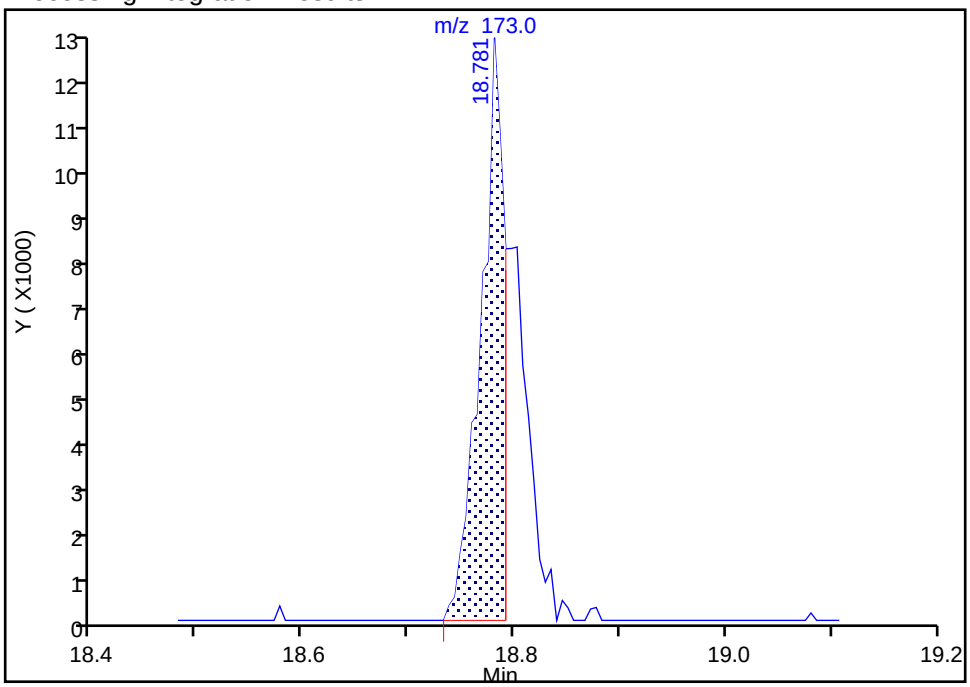
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D | | | | |
| Injection Date: | 27-Nov-2018 21:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 81 Bromoform, CAS: 75-25-2

Signal: 1

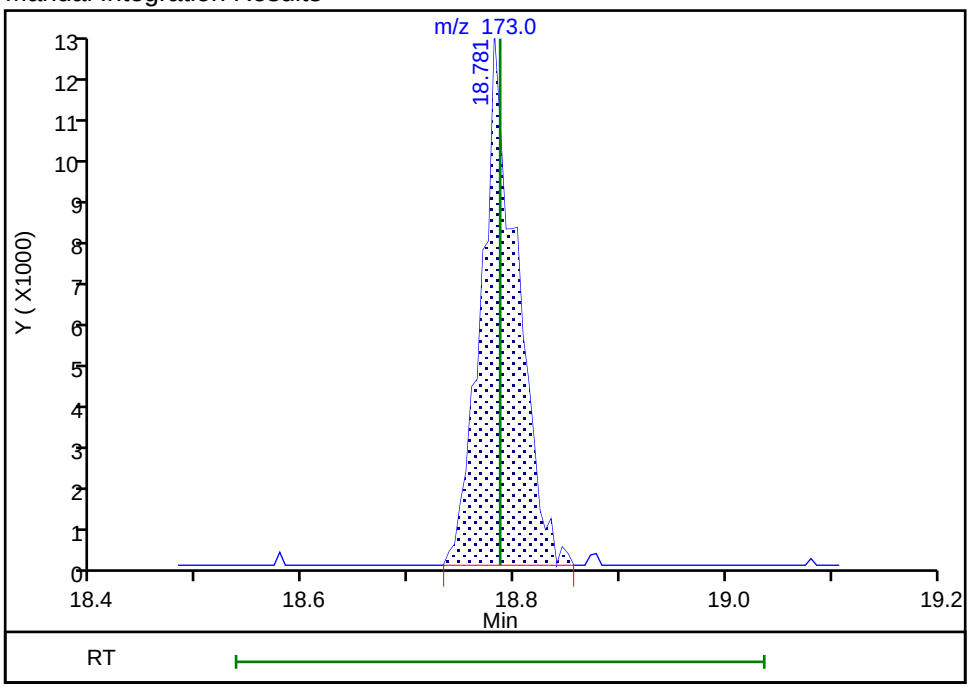
Processing Integration Results

RT: 18.78
Area: 18747
Amount: 0.088645
Amount Units: ppb v/v




Manual Integration Results

RT: 18.78
Area: 29102
Amount: 0.132969
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:15:51

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

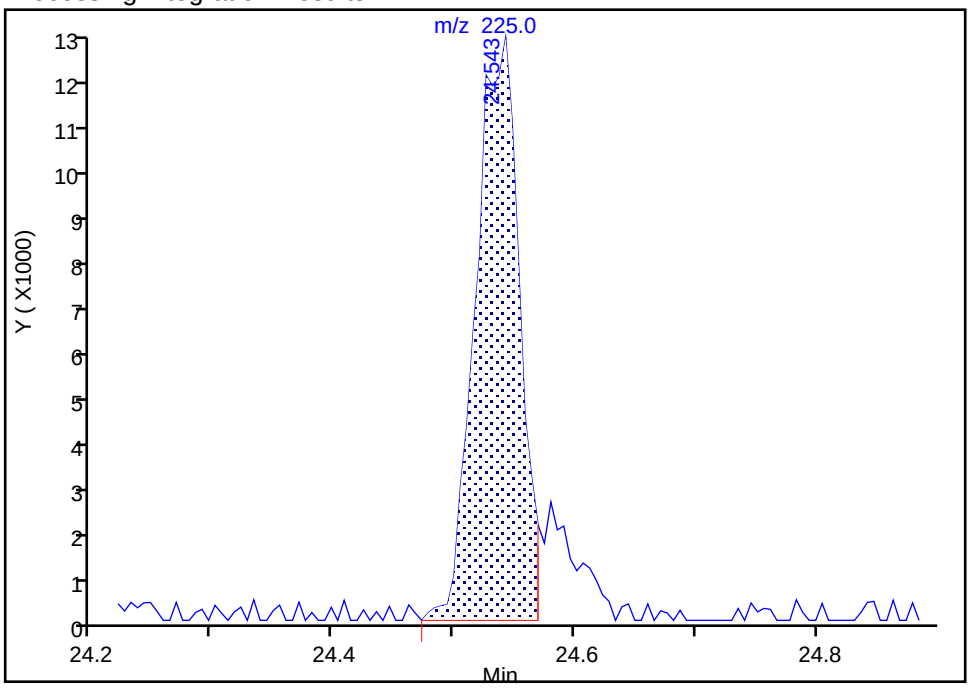
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D | | | | |
| Injection Date: | 27-Nov-2018 21:13:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

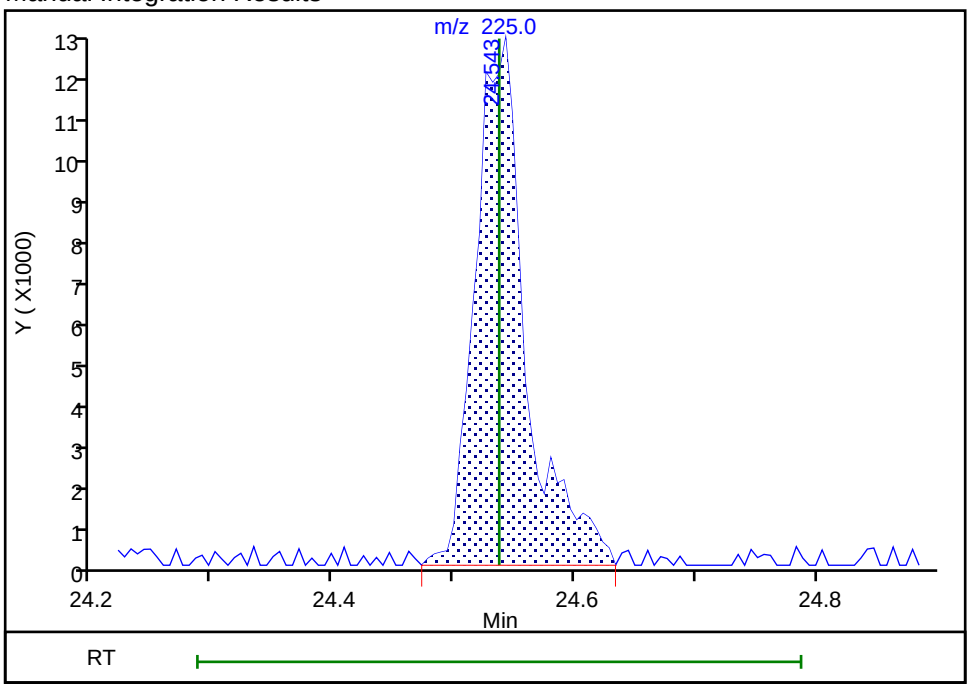
Processing Integration Results

RT: 24.54
Area: 30808
Amount: 0.154914
Amount Units: ppb v/v




Manual Integration Results

RT: 24.54
Area: 35418
Amount: 0.175201
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:16:48

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Nov-2018 22:03:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-006
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:34 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: mickd Date: 28-Nov-2018 09:31:19

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 96 | 46125 | 0.5005 | 0.6574 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 228414 | 0.5005 | 0.6024 | |
| 3 Chlorodifluoromethane | 51 | 3.181 | 3.176 | 0.005 | 96 | 96426 | 0.5005 | 0.5974 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.336 | 3.342 | -0.006 | 91 | 171371 | 0.5005 | 0.6006 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 98 | 42138 | 0.5005 | 0.5711 | |
| 6 Butane | 43 | 3.598 | 3.604 | -0.006 | 96 | 59450 | 0.5005 | 0.5986 | |
| 7 Vinyl chloride | 62 | 3.631 | 3.636 | -0.005 | 97 | 49384 | 0.5005 | 0.5561 | |
| 8 Butadiene | 54 | 3.684 | 3.689 | -0.005 | 90 | 33319 | 0.5005 | 0.6030 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 98 | 58765 | 0.5005 | 0.5731 | |
| 11 Chloroethane | 64 | 4.379 | 4.380 | -0.001 | 100 | 20807 | 0.5005 | 0.6088 | |
| 12 2-Methylbutane | 43 | 4.438 | 4.438 | 0.000 | 86 | 38513 | 0.5005 | 0.5874 | |
| 13 Vinyl bromide | 106 | 4.684 | 4.685 | 0.000 | 97 | 60365 | 0.5005 | 0.5955 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 181225 | 0.5005 | 0.6048 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 98 | 63337 | 0.5005 | 0.6382 | |
| 17 Ethanol | 45 | 5.214 | 5.209 | 0.005 | 97 | 130151 | 5.01 | 6.33 | |
| 18 Ethyl ether | 59 | 5.300 | 5.278 | 0.022 | 94 | 21321 | 0.5005 | 0.6125 | |
| 19 Acrolein | 56 | 5.674 | 5.594 | 0.080 | 31 | 1393 | 0.5005 | 0.1045 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610 | 5.605 | 0.005 | 98 | 130182 | 0.5005 | 0.6168 | |
| 21 1,1-Dichloroethene | 96 | 5.653 | 5.658 | -0.005 | 97 | 50516 | 0.5005 | 0.5437 | |
| 22 Acetone | 43 | 5.872 | 5.856 | 0.016 | 98 | 91069 | 0.5005 | 1.15 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 134380 | 0.5005 | 0.5623 | |
| 24 Isopropyl alcohol | 45 | 6.118 | 6.097 | 0.021 | 98 | 38937 | 0.5005 | 0.4453 | |
| 25 3-Chloro-1-propene | 41 | 6.300 | 6.311 | -0.011 | 92 | 44893 | 0.5005 | 0.6495 | |
| 26 Acetonitrile | 41 | 6.423 | 6.423 | 0.000 | 95 | 18640 | 0.5005 | 0.6442 | |
| 27 Methylene Chloride | 49 | 6.551 | 6.557 | -0.006 | 90 | 51169 | 0.5005 | 0.6103 | |
| 28 2-Methyl-2-propanol | 59 | 6.803 | 6.771 | 0.032 | 95 | 52325 | 0.5005 | 0.3914 | |
| 29 Methyl tert-butyl ether | 73 | 6.947 | 6.937 | 0.010 | 95 | 114110 | 0.5005 | 0.6318 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 97 | 69952 | 0.5005 | 0.6214 | |
| 32 Acrylonitrile | 53 | 7.076 | 7.076 | 0.000 | 99 | 19230 | 0.5005 | 0.6089 | M |
| 33 Hexane | 57 | 7.284 | 7.290 | -0.006 | 91 | 53074 | 0.5005 | 0.5915 | |
| 34 1,1-Dichloroethane | 63 | 7.718 | 7.728 | -0.010 | 99 | 83323 | 0.5005 | 0.5736 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.793 | 7.793 | 0.000 | 100 | 71882 | 0.5005 | 0.6541 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.729 | 8.734 | -0.005 | 93 | 51366 | 0.5005 | 0.5837 | |
| 38 2-Butanone (MEK) | 72 | 8.798 | 8.793 | 0.005 | 98 | 19113 | 0.5005 | 0.6732 | |
| 39 Ethyl acetate | 88 | 8.814 | 8.831 | -0.017 | 93 | 1325 | 0.5005 | 0.3273 | |
| * 40 Chlorobromomethane | 128 | 9.151 | 9.162 | -0.011 | 76 | 1016314 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.237 | 9.210 | 0.027 | 93 | 32954 | 0.5005 | 0.6393 | |
| 42 Chloroform | 83 | 9.274 | 9.275 | -0.001 | 96 | 128667 | 0.5005 | 0.6061 | |
| 43 Cyclohexane | 84 | 9.531 | 9.537 | -0.006 | 68 | 58864 | 0.5005 | 0.5676 | |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.547 | -0.005 | 94 | 143792 | 0.5005 | 0.5727 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 1.00 | 1.21 | |
| 45 Carbon tetrachloride | 117 | 9.788 | 9.788 | 0.000 | 98 | 150815 | 0.5005 | 0.5622 | |
| 46 Isooctane | 57 | 10.205 | 10.205 | 0.000 | 97 | 194884 | 0.5005 | 0.5681 | |
| 47 Benzene | 78 | 10.227 | 10.221 | 0.006 | 96 | 148640 | 0.5005 | 0.6178 | |
| 48 1,2-Dichloroethane | 62 | 10.382 | 10.387 | -0.005 | 99 | 84959 | 0.5005 | 0.6105 | |
| 49 n-Heptane | 43 | 10.569 | 10.575 | -0.006 | 94 | 72356 | 0.5005 | 0.5845 | |
| * 50 1,4-Difluorobenzene | 114 | 11.018 | 11.024 | -0.006 | 94 | 4518593 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.495 | 11.463 | 0.032 | 38 | 16536 | 0.5005 | 0.4062 | |
| 53 Trichloroethene | 95 | 11.484 | 11.489 | -0.005 | 95 | 78684 | 0.5005 | 0.4997 | |
| 54 1,2-Dichloropropane | 63 | 12.014 | 12.024 | -0.010 | 84 | 51479 | 0.5005 | 0.6069 | M |
| 55 Methyl methacrylate | 69 | 12.211 | 12.217 | -0.006 | 90 | 34488 | 0.5005 | 0.4923 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 37152542 | 0.5005 | 0 | |
| 57 Dibromomethane | 174 | 12.270 | 12.276 | -0.006 | 94 | 71063 | 0.5005 | 0.4897 | |
| 56 1,4-Dioxane | 88 | 12.335 | 12.281 | 0.053 | 85 | 21440 | 0.5005 | 0.4847 | |
| 58 Dichlorobromomethane | 83 | 12.559 | 12.565 | -0.006 | 98 | 131012 | 0.5005 | 0.5358 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.474 | 13.479 | -0.005 | 95 | 80183 | 0.5005 | 0.5296 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.811 | 13.795 | 0.016 | 96 | 63705 | 0.5005 | 0.4072 | |
| 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 95 | 99665 | 0.5005 | 0.6152 | |
| 64 n-Octane | 43 | 14.153 | 14.153 | 0.000 | 92 | 102681 | 0.5005 | 0.5639 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 47157359 | 0.5005 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 98 | 78856 | 0.5005 | 0.5296 | |
| 67 1,1,2-Trichloroethane | 83 | 15.020 | 15.031 | -0.011 | 96 | 52120 | 0.5005 | 0.5945 | |
| 68 Tetrachloroethene | 166 | 15.143 | 15.143 | 0.000 | 94 | 108407 | 0.5005 | 0.5589 | |
| 69 2-Hexanone | 43 | 15.528 | 15.518 | 0.010 | 94 | 53132 | 0.5005 | 0.3732 | |
| 71 Chlorodibromomethane | 129 | 15.780 | 15.790 | -0.010 | 97 | 126722 | 0.5005 | 0.5409 | |
| 72 Ethylene Dibromide | 107 | 16.047 | 16.053 | -0.006 | 98 | 96147 | 0.5005 | 0.5432 | |
| * 74 Chlorobenzene-d5 | 117 | 16.962 | 16.962 | 0.000 | 86 | 3999187 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.021 | 17.026 | -0.005 | 96 | 144447 | 0.5005 | 0.5797 | |
| 76 Ethylbenzene | 91 | 17.187 | 17.192 | -0.005 | 99 | 216811 | 0.5005 | 0.5943 | |
| 77 n-Nonane | 57 | 17.358 | 17.358 | 0.000 | 92 | 94114 | 0.5005 | 0.5901 | |
| 78 m-Xylene & p-Xylene | 106 | 17.443 | 17.449 | -0.006 | 0 | 169987 | 1.00 | 1.15 | |
| 79 o-Xylene | 106 | 18.294 | 18.294 | 0.000 | 98 | 80844 | 0.5005 | 0.5753 | |
| 80 Styrene | 104 | 18.342 | 18.348 | -0.006 | 94 | 112030 | 0.5005 | 0.5207 | |
| 81 Bromoform | 173 | 18.792 | 18.786 | 0.006 | 95 | 115114 | 0.5005 | 0.5430 | |
| 82 Isopropylbenzene | 105 | 19.048 | 19.048 | 0.000 | 97 | 233651 | 0.5005 | 0.5686 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 1.50 | 1.72 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 97 | 126803 | 0.5005 | 0.5656 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 98 | 292366 | 0.5005 | 0.5975 | |
| 86 1,2,3-Trichloropropane | 75 | 19.862 | 19.867 | -0.005 | 98 | 111994 | 0.5005 | 0.5885 | |
| 89 2-Chlorotoluene | 91 | 20.054 | 20.054 | 0.000 | 96 | 212485 | 0.5005 | 0.5750 | |
| 88 4-Ethyltoluene | 105 | 20.059 | 20.060 | -0.001 | 89 | 233789 | 0.5005 | 0.5612 | |
| 87 n-Decane | 57 | 20.086 | 20.086 | 0.000 | 93 | 105294 | 0.5005 | 0.5337 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.183 | 20.177 | 0.006 | 92 | 205318 | 0.5005 | 0.5761 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.000 | 93 | 86259 | 0.5005 | 0.5152 | |
| 92 tert-Butylbenzene | 119 | 20.701 | 20.702 | -0.001 | 90 | 187237 | 0.5005 | 0.5616 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 97 | 198359 | 0.5005 | 0.5641 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 98 | 287732 | 0.5005 | 0.5821 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | -0.001 | 97 | 234383 | 0.5005 | 0.5532 | |
| 96 1,3-Dichlorobenzene | 146 | 21.279 | 21.279 | 0.000 | 98 | 147114 | 0.5005 | 0.5162 | |
| 97 1,4-Dichlorobenzene | 146 | 21.418 | 21.424 | -0.006 | 95 | 143403 | 0.5005 | 0.5262 | |
| 98 Benzyl chloride | 91 | 21.627 | 21.627 | 0.000 | 98 | 180360 | 0.5005 | 0.5362 | |
| 100 n-Butylbenzene | 91 | 21.852 | 21.857 | -0.005 | 98 | 198746 | 0.5005 | 0.5145 | |
| 99 Undecane | 57 | 21.910 | 21.911 | -0.001 | 94 | 82623 | 0.5005 | 0.3803 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 95 | 135642 | 0.5005 | 0.5179 | |
| 102 Dodecane | 57 | 23.440 | 23.441 | -0.001 | 93 | 57122 | 0.5005 | 0.3283 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.339 | 24.345 | -0.006 | 95 | 73588 | 0.5005 | 0.3738 | |
| 104 Hexachlorobutadiene | 225 | 24.532 | 24.537 | -0.005 | 96 | 101589 | 0.5005 | 0.5188 | |
| 105 Naphthalene | 128 | 24.783 | 24.783 | 0.000 | 99 | 132543 | 0.5005 | 0.3473 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 95 | 65637 | 0.5005 | 0.3860 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL2w_00271 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

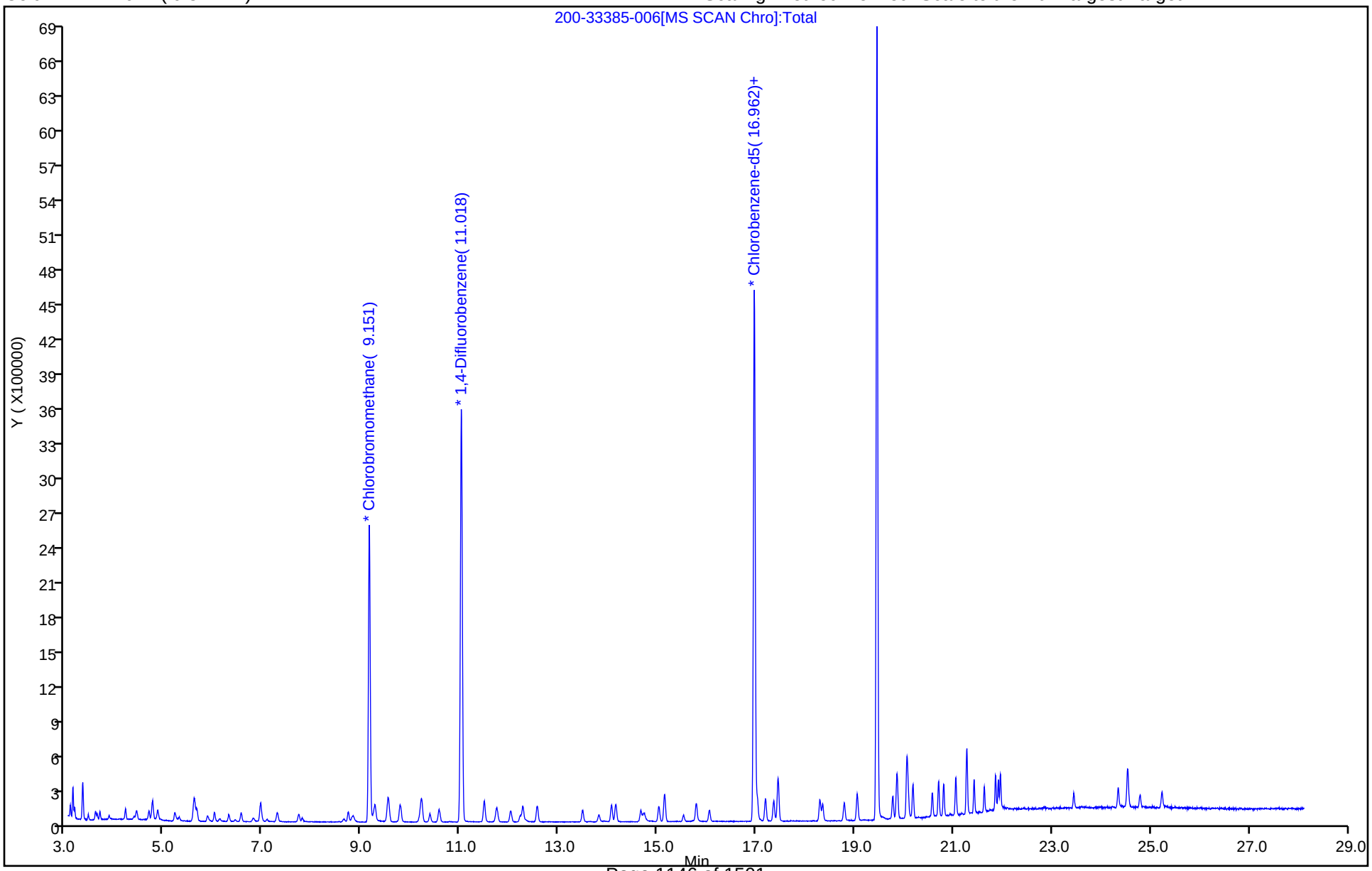
Report Date: 28-Nov-2018 11:37:35 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Nov-2018 22:03:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 6 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

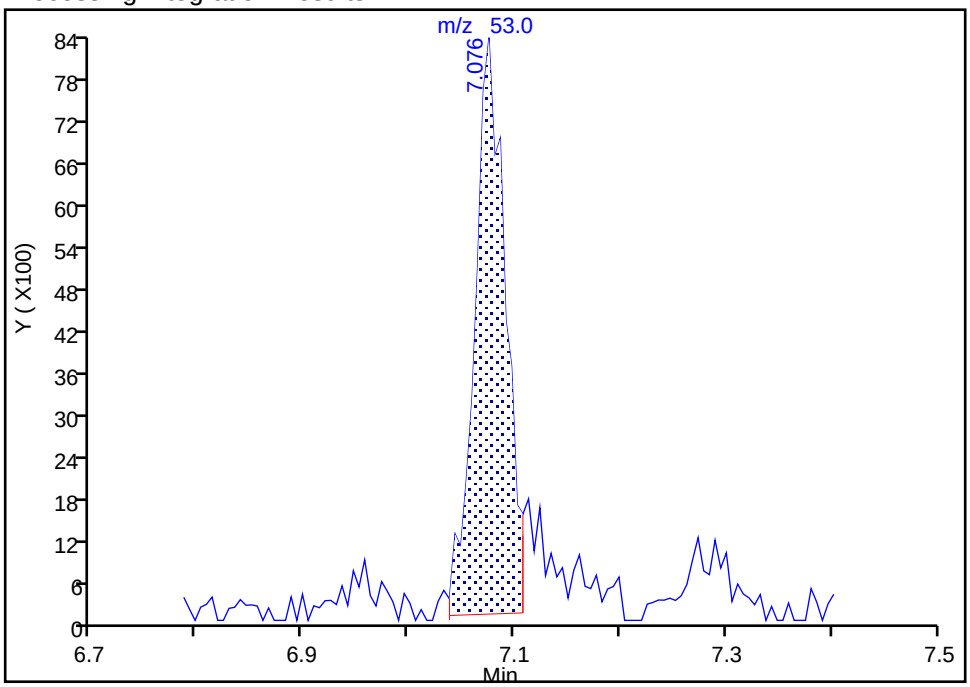
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D
Injection Date: 27-Nov-2018 22:03:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 32 Acrylonitrile, CAS: 107-13-1

Signal: 1

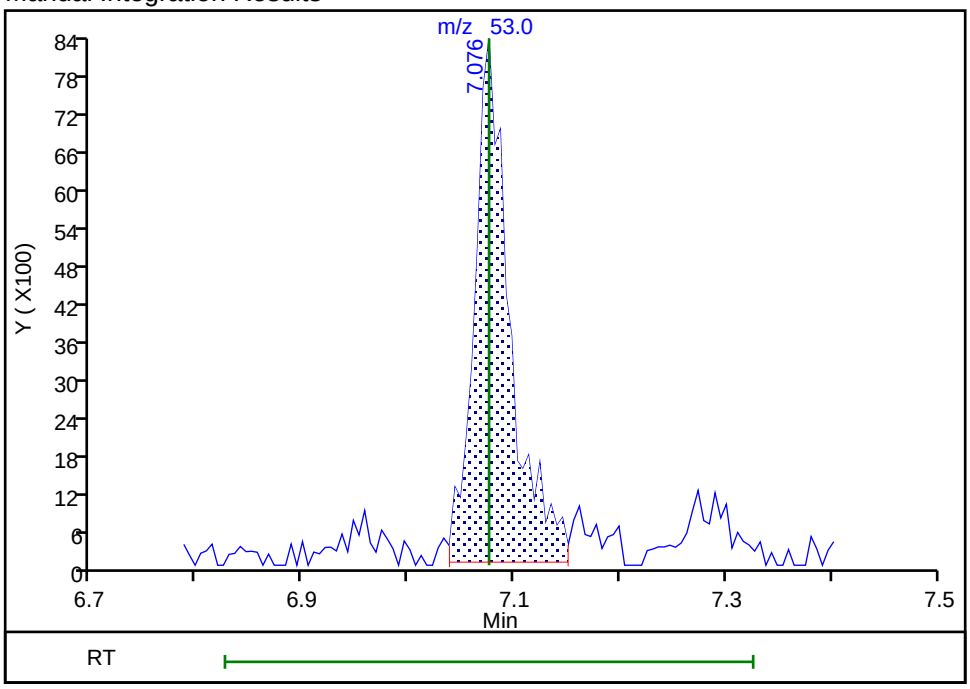
Processing Integration Results

RT: 7.08
Area: 16727
Amount: 0.618941
Amount Units: ppb v/v




Manual Integration Results

RT: 7.08
Area: 19230
Amount: 0.608887
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:19:13
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Burlington

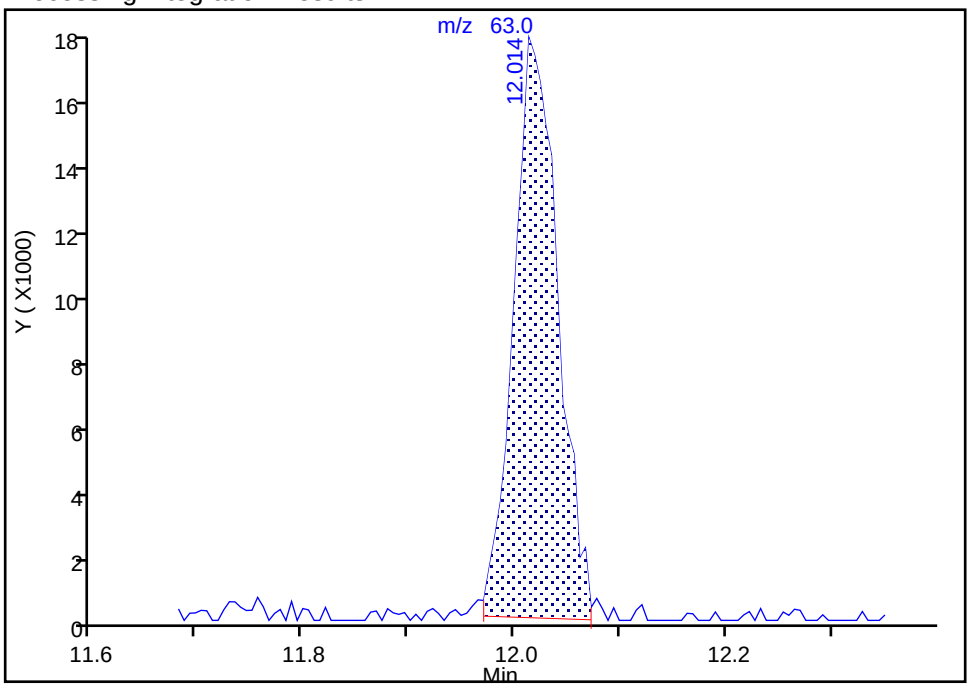
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D
Injection Date: 27-Nov-2018 22:03:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 54 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

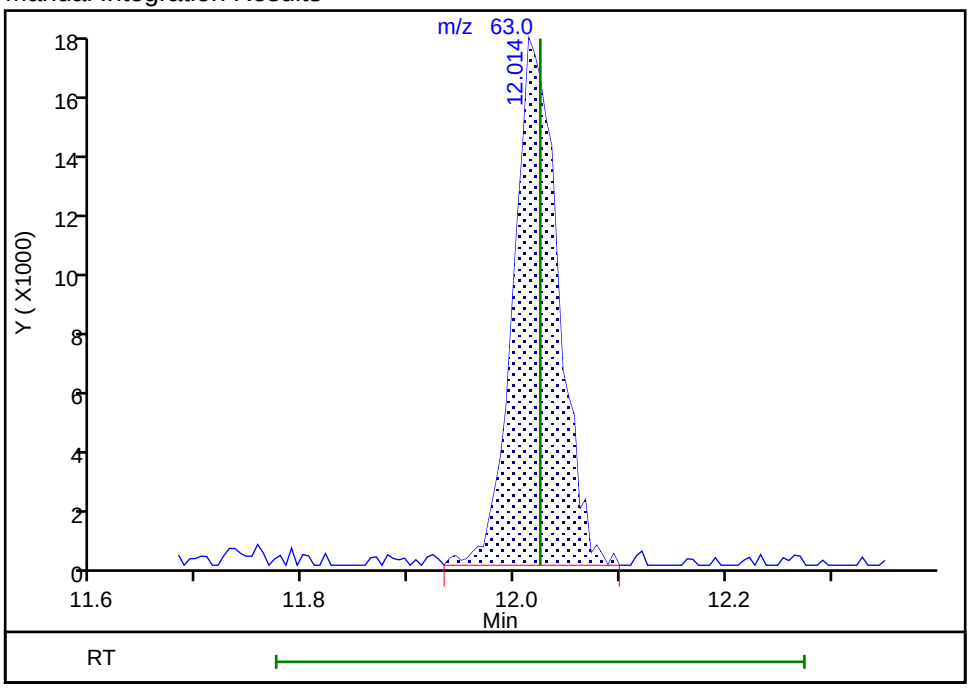
Processing Integration Results

RT: 12.01
Area: 49956
Amount: 0.591972
Amount Units: ppb v/v




Manual Integration Results

RT: 12.01
Area: 51479
Amount: 0.606893
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:20:31
Audit Action: Manually Integrated Audit Reason: Baseline

Report Date: 28-Nov-2018 11:37:37 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-007.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Nov-2018 22:54:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-007
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:36 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: mickd Date: 28-Nov-2018 09:33:21

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 96 | 364033 | 4.99 | 5.44 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 1908083 | 4.99 | 5.28 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 97 | 785654 | 4.99 | 5.11 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 91 | 1389798 | 4.99 | 5.11 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 366991 | 4.99 | 5.22 | |
| 6 Butane | 43 | 3.598 | 3.604 | -0.006 | 97 | 492754 | 4.99 | 5.21 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 418982 | 4.99 | 4.95 | |
| 8 Butadiene | 54 | 3.689 | 3.689 | 0.000 | 96 | 260635 | 4.99 | 4.95 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 99 | 486037 | 4.99 | 4.97 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 98 | 158452 | 4.99 | 4.86 | |
| 12 2-Methylbutane | 43 | 4.433 | 4.438 | -0.005 | 88 | 328482 | 4.99 | 5.26 | |
| 13 Vinyl bromide | 106 | 4.684 | 4.685 | 0.000 | 98 | 472875 | 4.99 | 4.89 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 1466203 | 4.99 | 5.13 | |
| 16 Pentane | 43 | 4.861 | 4.866 | -0.005 | 98 | 480875 | 4.99 | 5.08 | |
| 17 Ethanol | 45 | 5.209 | 5.209 | 0.000 | 96 | 205970 | 10.0 | 10.5 | |
| 18 Ethyl ether | 59 | 5.284 | 5.278 | 0.006 | 97 | 174979 | 4.99 | 5.27 | |
| 19 Acrolein | 56 | 5.589 | 5.594 | -0.005 | 32 | 80408 | 4.99 | 6.33 | M |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599 | 5.605 | -0.006 | 97 | 984428 | 4.99 | 4.89 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 99 | 415825 | 4.99 | 4.70 | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 446467 | 4.99 | 5.92 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 1180486 | 4.99 | 5.18 | |
| 24 Isopropyl alcohol | 45 | 6.097 | 6.097 | 0.000 | 100 | 433961 | 4.99 | 5.21 | |
| 25 3-Chloro-1-propene | 41 | 6.305 | 6.311 | -0.006 | 96 | 336881 | 4.99 | 5.11 | |
| 26 Acetonitrile | 41 | 6.418 | 6.423 | -0.005 | 96 | 159156 | 4.99 | 5.77 | |
| 27 Methylene Chloride | 49 | 6.552 | 6.557 | -0.005 | 91 | 400998 | 4.99 | 5.02 | |
| 28 2-Methyl-2-propanol | 59 | 6.765 | 6.771 | -0.006 | 95 | 643959 | 4.99 | 5.05 | |
| 29 Methyl tert-butyl ether | 73 | 6.942 | 6.937 | 0.005 | 95 | 896738 | 4.99 | 5.21 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 96 | 527968 | 4.99 | 4.92 | |
| 32 Acrylonitrile | 53 | 7.070 | 7.076 | -0.006 | 93 | 157052 | 4.99 | 5.22 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 90 | 419502 | 4.99 | 4.91 | |
| 34 1,1-Dichloroethane | 63 | 7.723 | 7.728 | -0.005 | 99 | 658831 | 4.99 | 4.76 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.793 | 7.793 | 0.000 | 100 | 583981 | 4.99 | 5.58 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 92 | 421703 | 4.99 | 5.03 | |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.793 | 0.000 | 100 | 135941 | 4.99 | 5.02 | |
| 39 Ethyl acetate | 88 | 8.830 | 8.831 | -0.001 | 99 | 21125 | 4.99 | 5.48 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.162 | -0.005 | 76 | 968663 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.210 | 9.210 | 0.000 | 86 | 260189 | 4.99 | 5.67 | |
| 42 Chloroform | 83 | 9.275 | 9.275 | -0.001 | 95 | 989740 | 4.99 | 4.89 | |
| 43 Cyclohexane | 84 | 9.531 | 9.537 | -0.006 | 96 | 449187 | 4.99 | 4.87 | |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.547 | -0.005 | 94 | 1112533 | 4.99 | 4.98 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 9.99 | 9.95 | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.788 | -0.005 | 98 | 1246640 | 4.99 | 5.22 | |
| 46 Isooctane | 57 | 10.200 | 10.205 | -0.005 | 98 | 1548759 | 4.99 | 5.07 | |
| 47 Benzene | 78 | 10.221 | 10.221 | 0.000 | 96 | 1003423 | 4.99 | 4.69 | |
| 48 1,2-Dichloroethane | 62 | 10.387 | 10.387 | 0.000 | 99 | 601611 | 4.99 | 4.86 | |
| 49 n-Heptane | 43 | 10.574 | 10.575 | -0.001 | 92 | 568208 | 4.99 | 5.16 | |
| * 50 1,4-Difluorobenzene | 114 | 11.024 | 11.024 | 0.000 | 94 | 4020135 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.468 | 11.463 | 0.005 | 91 | 171996 | 4.99 | 4.75 | |
| 53 Trichloroethene | 95 | 11.484 | 11.489 | -0.005 | 97 | 641772 | 4.99 | 4.58 | |
| 54 1,2-Dichloropropane | 63 | 12.024 | 12.024 | 0.000 | 84 | 363894 | 4.99 | 4.82 | |
| 55 Methyl methacrylate | 69 | 12.211 | 12.217 | -0.006 | 92 | 320321 | 4.99 | 5.14 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 179607099 | 4.99 | 0 | |
| 57 Dibromomethane | 174 | 12.270 | 12.276 | -0.006 | 96 | 580456 | 4.99 | 4.50 | |
| 56 1,4-Dioxane | 88 | 12.286 | 12.281 | 0.005 | 90 | 203616 | 4.99 | 5.17 | |
| 58 Dichlorobromomethane | 83 | 12.559 | 12.565 | -0.006 | 99 | 1080443 | 4.99 | 4.97 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.479 | 13.479 | 0.000 | 95 | 656690 | 4.99 | 4.88 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.795 | 13.795 | 0.000 | 98 | 772096 | 4.99 | 5.55 | |
| 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 94 | 735618 | 4.99 | 4.84 | |
| 64 n-Octane | 43 | 14.153 | 14.153 | 0.000 | 92 | 841880 | 4.99 | 5.20 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 277592984 | 4.99 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 97 | 664445 | 4.99 | 5.02 | |
| 67 1,1,2-Trichloroethane | 83 | 15.025 | 15.031 | -0.006 | 98 | 410631 | 4.99 | 5.00 | |
| 68 Tetrachloroethene | 166 | 15.143 | 15.143 | 0.000 | 95 | 877542 | 4.99 | 4.82 | |
| 69 2-Hexanone | 43 | 15.518 | 15.518 | 0.000 | 92 | 742376 | 4.99 | 5.56 | |
| 71 Chlorodibromomethane | 129 | 15.785 | 15.790 | -0.005 | 97 | 1096910 | 4.99 | 4.99 | |
| 72 Ethylene Dibromide | 107 | 16.053 | 16.053 | 0.000 | 98 | 815745 | 4.99 | 4.92 | |
| * 74 Chlorobenzene-d5 | 117 | 16.962 | 16.962 | 0.000 | 86 | 3749788 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.021 | 17.026 | -0.005 | 94 | 1116470 | 4.99 | 4.78 | |
| 76 Ethylbenzene | 91 | 17.187 | 17.192 | -0.005 | 98 | 1720827 | 4.99 | 5.03 | |
| 77 n-Nonane | 57 | 17.358 | 17.358 | 0.000 | 88 | 756388 | 4.99 | 5.06 | |
| 78 m-Xylene & p-Xylene | 106 | 17.444 | 17.449 | -0.005 | 0 | 1361269 | 9.99 | 9.82 | |
| 79 o-Xylene | 106 | 18.294 | 18.294 | 0.000 | 98 | 658661 | 4.99 | 5.00 | |
| 80 Styrene | 104 | 18.348 | 18.348 | 0.000 | 99 | 1009105 | 4.99 | 5.00 | |
| 81 Bromoform | 173 | 18.786 | 18.786 | 0.000 | 95 | 1072914 | 4.99 | 5.40 | |
| 82 Isopropylbenzene | 105 | 19.048 | 19.048 | 0.000 | 96 | 1969132 | 4.99 | 5.11 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 15.0 | 14.8 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 98 | 1092336 | 4.99 | 5.20 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 98 | 2390637 | 4.99 | 5.21 | |
| 86 1,2,3-Trichloropropane | 75 | 19.867 | 19.867 | 0.000 | 97 | 903747 | 4.99 | 5.06 | |
| 89 2-Chlorotoluene | 91 | 20.054 | 20.054 | 0.000 | 96 | 1783458 | 4.99 | 5.15 | |
| 88 4-Ethyltoluene | 105 | 20.060 | 20.060 | 0.000 | 98 | 1994007 | 4.99 | 5.11 | |
| 87 n-Decane | 57 | 20.081 | 20.086 | -0.005 | 93 | 948077 | 4.99 | 5.13 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.177 | 0.000 | 93 | 1714281 | 4.99 | 5.13 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.000 | 89 | 855695 | 4.99 | 5.45 | |
| 92 tert-Butylbenzene | 119 | 20.701 | 20.702 | -0.001 | 91 | 1609408 | 4.99 | 5.15 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 98 | 1709998 | 4.99 | 5.19 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 98 | 2457706 | 4.99 | 5.30 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | 0.000 | 97 | 2110536 | 4.99 | 5.31 | |
| 96 1,3-Dichlorobenzene | 146 | 21.274 | 21.279 | -0.005 | 98 | 1324895 | 4.99 | 4.96 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 95 | 1288460 | 4.99 | 5.04 | |
| 98 Benzyl chloride | 91 | 21.627 | 21.627 | 0.000 | 98 | 1661751 | 4.99 | 5.27 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 98 | 2002534 | 4.99 | 5.53 | |
| 99 Undecane | 57 | 21.911 | 21.911 | -0.001 | 94 | 1063652 | 4.99 | 5.22 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 95 | 1257186 | 4.99 | 5.12 | |
| 102 Dodecane | 57 | 23.441 | 23.441 | 0.000 | 96 | 912362 | 4.99 | 5.59 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345 | 24.345 | 0.000 | 94 | 893344 | 4.99 | 4.84 | |
| 104 Hexachlorobutadiene | 225 | 24.532 | 24.537 | -0.005 | 97 | 926407 | 4.99 | 5.05 | |
| 105 Naphthalene | 128 | 24.789 | 24.783 | 0.006 | 99 | 1696136 | 4.99 | 4.74 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 95 | 786857 | 4.99 | 4.93 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL3w_00206 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

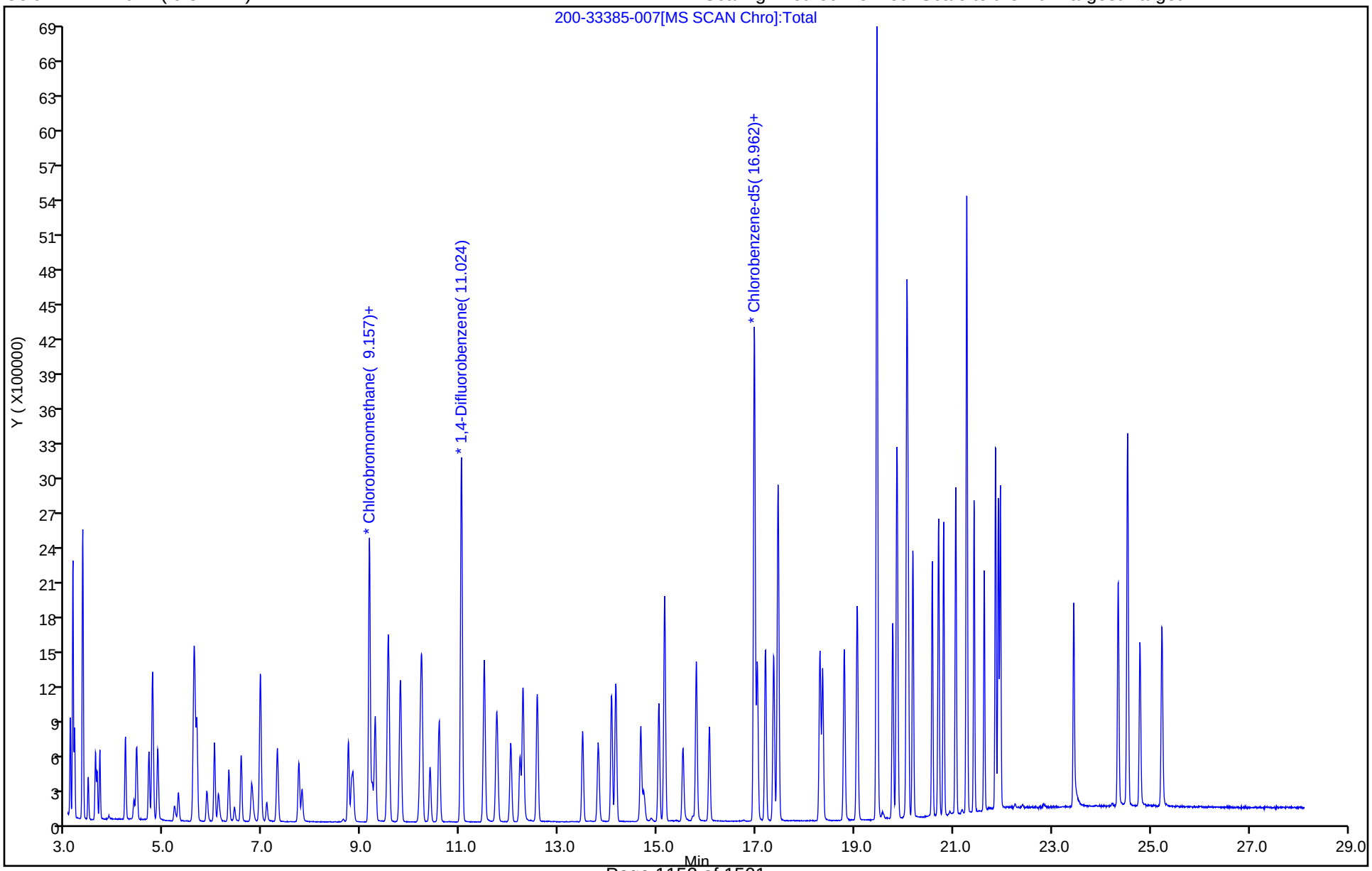
Report Date: 28-Nov-2018 11:37:37 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-007.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Nov-2018 22:54:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 7 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

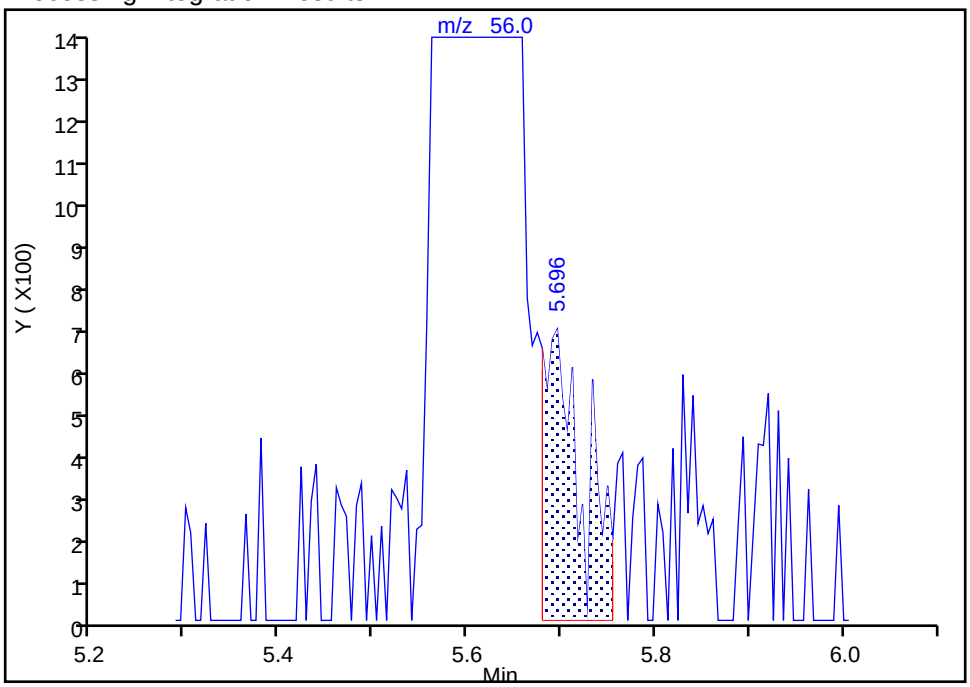
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-007.D | | | | |
| Injection Date: | 27-Nov-2018 22:54:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 6 | Worklist Smp#: | 7 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 19 Acrolein, CAS: 107-02-8

Signal: 1

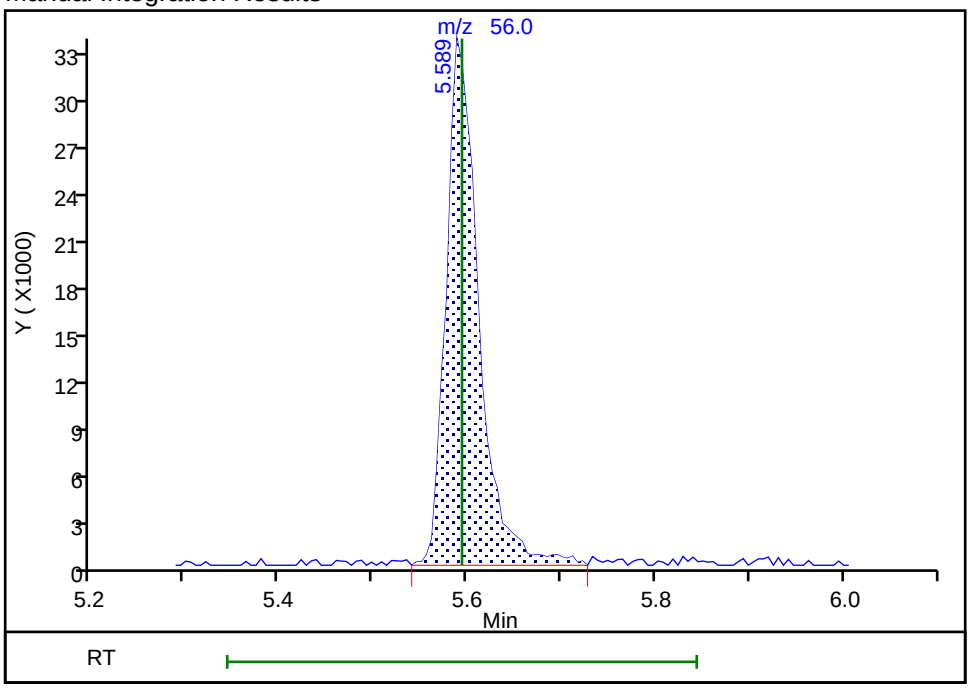
Processing Integration Results

RT: 5.70
Area: 1925
Amount: 0.457400
Amount Units: ppb v/v




Manual Integration Results

RT: 5.59
Area: 80408
Amount: 6.329847
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 10:22:17

Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-008.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 27-Nov-2018 23:44:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-008
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:38 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: desjardinsb Date: 28-Nov-2018 08:17:50

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 98 | 785952 | 10.0 | 11.7 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 4085272 | 10.0 | 11.2 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 96 | 1696694 | 10.0 | 11.0 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 90 | 3006367 | 10.0 | 11.0 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 781412 | 10.0 | 11.0 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 1051856 | 10.0 | 11.0 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 919635 | 10.0 | 10.8 | |
| 8 Butadiene | 54 | 3.689 | 3.689 | 0.000 | 95 | 570903 | 10.0 | 10.8 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 98 | 1095065 | 10.0 | 11.1 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 99 | 357997 | 10.0 | 10.9 | |
| 12 2-Methylbutane | 43 | 4.438 | 4.438 | 0.000 | 88 | 689287 | 10.0 | 11.0 | |
| 13 Vinyl bromide | 106 | 4.685 | 4.685 | 0.000 | 99 | 1075494 | 10.0 | 11.1 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 3176477 | 10.0 | 11.1 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 98 | 1018971 | 10.0 | 10.7 | |
| 17 Ethanol | 45 | 5.209 | 5.209 | 0.000 | 96 | 369667 | 15.0 | 18.8 | |
| 18 Ethyl ether | 59 | 5.278 | 5.278 | 0.000 | 98 | 370443 | 10.0 | 11.1 | |
| 19 Acrolein | 56 | 5.594 | 5.594 | 0.000 | 34 | 153136 | 10.0 | 12.0 | M |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 97 | 2196444 | 10.0 | 10.9 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 98 | 939842 | 10.0 | 10.5 | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 873048 | 10.0 | 11.5 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.017 | 0.000 | 99 | 2546288 | 10.0 | 11.1 | |
| 24 Isopropyl alcohol | 45 | 6.097 | 6.097 | 0.000 | 100 | 967720 | 10.0 | 11.5 | |
| 25 3-Chloro-1-propene | 41 | 6.311 | 6.311 | 0.000 | 96 | 586985 | 10.0 | 8.86 | |
| 26 Acetonitrile | 41 | 6.423 | 6.423 | 0.000 | 98 | 322186 | 10.0 | 11.6 | |
| 27 Methylene Chloride | 49 | 6.557 | 6.557 | 0.000 | 89 | 879587 | 10.0 | 10.9 | |
| 28 2-Methyl-2-propanol | 59 | 6.771 | 6.771 | 0.000 | 94 | 1462343 | 10.0 | 11.4 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 95 | 1877588 | 10.0 | 10.8 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 95 | 1160714 | 10.0 | 10.8 | |
| 32 Acrylonitrile | 53 | 7.076 | 7.076 | 0.000 | 95 | 330215 | 10.0 | 10.9 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 90 | 946701 | 10.0 | 11.0 | |
| 34 1,1-Dichloroethane | 63 | 7.728 | 7.728 | 0.000 | 99 | 1475943 | 10.0 | 10.6 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.793 | 7.793 | 0.000 | 100 | 1232683 | 10.0 | 11.7 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 90 | 958263 | 10.0 | 11.4 | |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.793 | 0.000 | 100 | 280092 | 10.0 | 10.3 | |
| 39 Ethyl acetate | 88 | 8.831 | 8.831 | 0.000 | 99 | 42404 | 10.0 | 10.9 | |
| * 40 Chlorobromomethane | 128 | 9.162 | 9.162 | 0.000 | 75 | 974604 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.210 | 9.210 | 0.000 | 86 | 531349 | 10.0 | 13.4 | |
| 42 Chloroform | 83 | 9.275 | 9.275 | 0.000 | 96 | 2240315 | 10.0 | 11.0 | |
| 43 Cyclohexane | 84 | 9.537 | 9.537 | 0.000 | 95 | 1040636 | 10.0 | 13.1 | |
| 44 1,1,1-Trichloroethane | 97 | 9.547 | 9.547 | 0.000 | 94 | 2590931 | 10.0 | 13.5 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 22.1 | |
| 45 Carbon tetrachloride | 117 | 9.788 | 9.788 | 0.000 | 98 | 2875434 | 10.0 | 14.0 | |
| 46 Isooctane | 57 | 10.205 | 10.205 | 0.000 | 98 | 3515364 | 10.0 | 13.4 | |
| 47 Benzene | 78 | 10.221 | 10.221 | 0.000 | 96 | 2425081 | 10.0 | 13.2 | |
| 48 1,2-Dichloroethane | 62 | 10.387 | 10.387 | 0.000 | 99 | 1420020 | 10.0 | 13.3 | |
| 49 n-Heptane | 43 | 10.575 | 10.575 | 0.000 | 91 | 1258258 | 10.0 | 13.3 | |
| * 50 1,4-Difluorobenzene | 114 | 11.024 | 11.024 | 0.000 | 94 | 3462989 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.463 | 11.463 | 0.000 | 93 | 415873 | 10.0 | 13.3 | |
| 53 Trichloroethene | 95 | 11.489 | 11.489 | 0.000 | 98 | 1513764 | 10.0 | 12.5 | |
| 54 1,2-Dichloropropane | 63 | 12.024 | 12.024 | 0.000 | 85 | 856722 | 10.0 | 13.2 | |
| 55 Methyl methacrylate | 69 | 12.217 | 12.217 | 0.000 | 93 | 684345 | 10.0 | 12.7 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 374026723 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.276 | 12.276 | 0.000 | 97 | 1437496 | 10.0 | 12.9 | |
| 56 1,4-Dioxane | 88 | 12.281 | 12.281 | 0.000 | 90 | 457619 | 10.0 | 13.5 | |
| 58 Dichlorobromomethane | 83 | 12.565 | 12.565 | 0.000 | 98 | 2608790 | 10.0 | 13.9 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.479 | 13.479 | 0.000 | 95 | 1557584 | 10.0 | 13.4 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.795 | 13.795 | 0.000 | 97 | 1610756 | 10.0 | 13.4 | |
| 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 94 | 1720202 | 10.0 | 12.2 | |
| 64 n-Octane | 43 | 14.153 | 14.153 | 0.000 | 90 | 1908768 | 10.0 | 13.7 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 593252761 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 96 | 1524139 | 10.0 | 13.4 | |
| 67 1,1,2-Trichloroethane | 83 | 15.031 | 15.031 | 0.000 | 98 | 944671 | 10.0 | 12.4 | |
| 68 Tetrachloroethene | 166 | 15.143 | 15.143 | 0.000 | 96 | 2109890 | 10.0 | 12.5 | |
| 69 2-Hexanone | 43 | 15.518 | 15.518 | 0.000 | 94 | 1581311 | 10.0 | 12.7 | |
| 71 Chlorodibromomethane | 129 | 15.790 | 15.790 | 0.000 | 97 | 2651860 | 10.0 | 13.0 | |
| 72 Ethylene Dibromide | 107 | 16.053 | 16.053 | 0.000 | 100 | 1960372 | 10.0 | 12.7 | |
| * 74 Chlorobenzene-d5 | 117 | 16.962 | 16.962 | 0.000 | 85 | 3487050 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 95 | 2683674 | 10.0 | 12.4 | |
| 76 Ethylbenzene | 91 | 17.192 | 17.192 | 0.000 | 98 | 3925675 | 10.0 | 12.3 | |
| 77 n-Nonane | 57 | 17.358 | 17.358 | 0.000 | 87 | 1743091 | 10.0 | 12.5 | |
| 78 m-Xylene & p-Xylene | 106 | 17.449 | 17.449 | 0.000 | 0 | 3111549 | 20.0 | 24.1 | |
| 79 o-Xylene | 106 | 18.294 | 18.294 | 0.000 | 99 | 1499082 | 10.0 | 12.2 | |
| 80 Styrene | 104 | 18.348 | 18.348 | 0.000 | 99 | 2380815 | 10.0 | 12.7 | |
| 81 Bromoform | 173 | 18.786 | 18.786 | 0.000 | 96 | 2435440 | 10.0 | 13.2 | |
| 82 Isopropylbenzene | 105 | 19.048 | 19.048 | 0.000 | 96 | 4471409 | 10.0 | 12.5 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 36.4 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 99 | 2425088 | 10.0 | 12.4 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 99 | 5367272 | 10.0 | 12.6 | |
| 86 1,2,3-Trichloropropane | 75 | 19.867 | 19.867 | 0.000 | 97 | 1969674 | 10.0 | 11.9 | |
| 89 2-Chlorotoluene | 91 | 20.054 | 20.054 | 0.000 | 97 | 4058986 | 10.0 | 12.6 | |
| 88 4-Ethyltoluene | 105 | 20.060 | 20.060 | 0.000 | 98 | 4603967 | 10.0 | 12.7 | |
| 87 n-Decane | 57 | 20.086 | 20.086 | 0.000 | 93 | 2120895 | 10.0 | 12.3 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.177 | 0.000 | 93 | 3866116 | 10.0 | 12.4 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.000 | 90 | 2004428 | 10.0 | 13.7 | |
| 92 tert-Butylbenzene | 119 | 20.702 | 20.702 | 0.000 | 92 | 3605410 | 10.0 | 12.4 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 97 | 3850351 | 10.0 | 12.6 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 98 | 5460744 | 10.0 | 12.7 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | 0.000 | 97 | 4749785 | 10.0 | 12.9 | |
| 96 1,3-Dichlorobenzene | 146 | 21.279 | 21.279 | 0.000 | 97 | 3135758 | 10.0 | 12.6 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 95 | 2972771 | 10.0 | 12.5 | |
| 98 Benzyl chloride | 91 | 21.627 | 21.627 | 0.000 | 98 | 3655270 | 10.0 | 12.5 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 99 | 4426320 | 10.0 | 13.1 | |
| 99 Undecane | 57 | 21.911 | 21.911 | 0.000 | 94 | 2362262 | 10.0 | 12.5 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 96 | 2866493 | 10.0 | 12.6 | |
| 102 Dodecane | 57 | 23.441 | 23.441 | 0.000 | 97 | 2002652 | 10.0 | 13.2 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345 | 24.345 | 0.000 | 94 | 2104583 | 10.0 | 12.3 | |
| 104 Hexachlorobutadiene | 225 | 24.537 | 24.537 | 0.000 | 97 | 2116655 | 10.0 | 12.4 | |
| 105 Naphthalene | 128 | 24.783 | 24.783 | 0.000 | 99 | 4016657 | 10.0 | 12.1 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 95 | 1759849 | 10.0 | 11.9 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL4w_00706 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

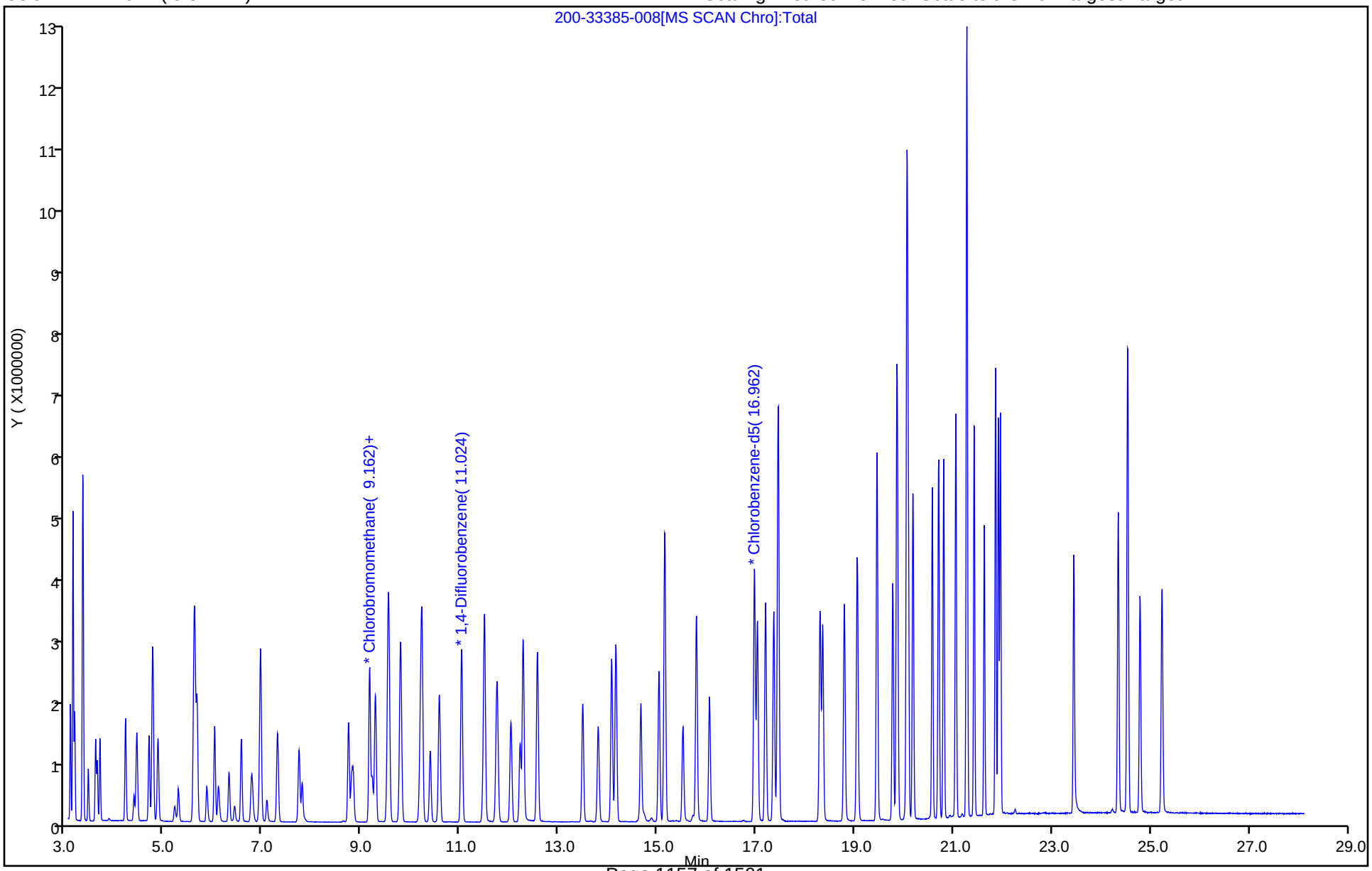
Report Date: 28-Nov-2018 11:37:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-008.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Nov-2018 23:44:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | icis | | | Worklist Smp#: | 8 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 7 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

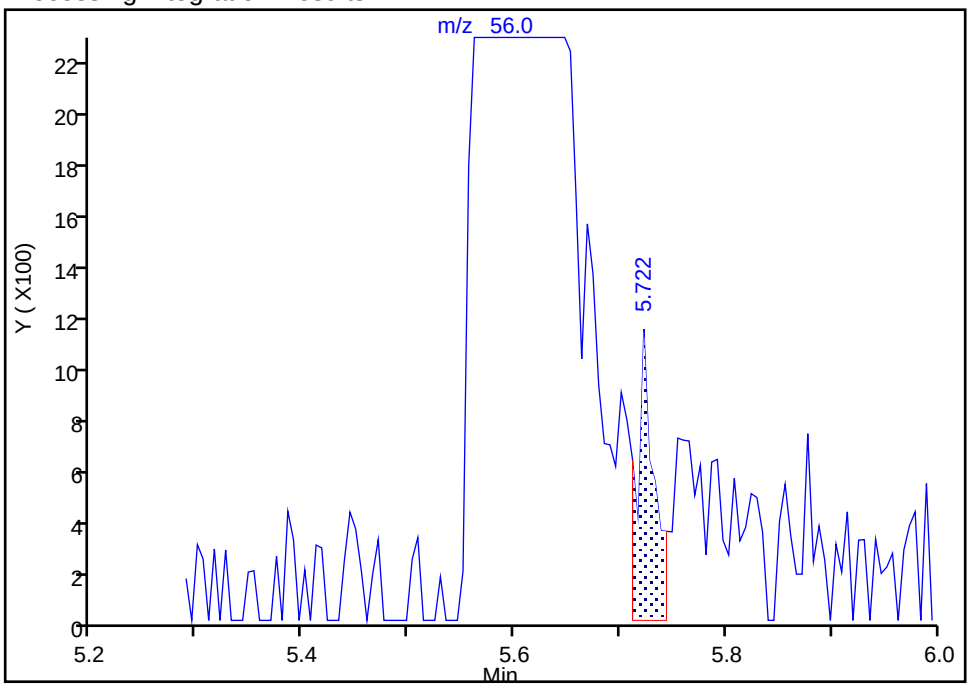
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-008.D
Injection Date: 27-Nov-2018 23:44:30 Instrument ID: CHG.i
Lims ID: icis
Client ID:
Operator ID: vtp ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 19 Acrolein, CAS: 107-02-8

Signal: 1

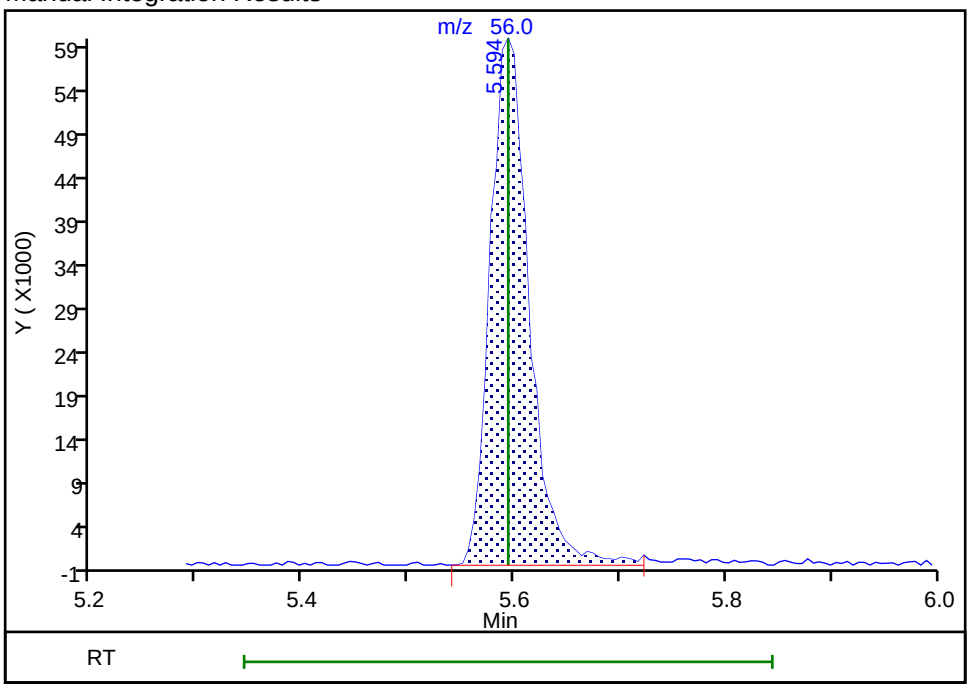
Processing Integration Results

RT: 5.72
Area: 1266
Amount: 0.171135
Amount Units: ppb v/v




Manual Integration Results

RT: 5.59
Area: 153136
Amount: 11.981626
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 10:24:29
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-009.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Nov-2018 00:35:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-009
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:40 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: mickd Date: 28-Nov-2018 09:36:53

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 97 | 1051895 | 15.0 | 13.8 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 98 | 5549641 | 15.0 | 13.4 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 96 | 2318249 | 15.0 | 13.2 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 89 | 4133878 | 15.0 | 13.3 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 1051513 | 15.0 | 13.1 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 1427468 | 15.0 | 13.2 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 1249166 | 15.0 | 12.9 | |
| 8 Butadiene | 54 | 3.690 | 3.689 | 0.001 | 94 | 794383 | 15.0 | 13.2 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 98 | 1527586 | 15.0 | 13.7 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 99 | 495532 | 15.0 | 13.3 | |
| 12 2-Methylbutane | 43 | 4.433 | 4.438 | -0.005 | 88 | 950946 | 15.0 | 13.3 | |
| 13 Vinyl bromide | 106 | 4.685 | 4.685 | 0.001 | 98 | 1504165 | 15.0 | 13.6 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 4416027 | 15.0 | 13.5 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 99 | 1418170 | 15.0 | 13.1 | |
| 17 Ethanol | 45 | 5.203 | 5.209 | -0.006 | 96 | 390014 | 20.0 | 17.4 | |
| 18 Ethyl ether | 59 | 5.278 | 5.278 | 0.000 | 97 | 544069 | 15.0 | 14.3 | |
| 19 Acrolein | 56 | 5.594 | 5.594 | 0.000 | 96 | 169592 | 15.0 | 11.7 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 98 | 3122448 | 15.0 | 13.6 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 97 | 1324685 | 15.0 | 13.1 | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 1288430 | 15.0 | 14.9 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.017 | 0.000 | 99 | 3533230 | 15.0 | 13.6 | |
| 24 Isopropyl alcohol | 45 | 6.092 | 6.097 | -0.005 | 100 | 1330275 | 15.0 | 14.0 | |
| 25 3-Chloro-1-propene | 41 | 6.311 | 6.311 | 0.000 | 95 | 1064730 | 15.0 | 14.1 | |
| 26 Acetonitrile | 41 | 6.418 | 6.423 | -0.005 | 98 | 476460 | 15.0 | 15.1 | |
| 27 Methylene Chloride | 49 | 6.557 | 6.557 | 0.000 | 88 | 1241501 | 15.0 | 13.6 | |
| 28 2-Methyl-2-propanol | 59 | 6.766 | 6.771 | -0.005 | 93 | 2024721 | 15.0 | 13.9 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 95 | 2850213 | 15.0 | 14.5 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 95 | 1662249 | 15.0 | 13.5 | |
| 32 Acrylonitrile | 53 | 7.076 | 7.076 | 0.000 | 94 | 496388 | 15.0 | 14.4 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 90 | 1337568 | 15.0 | 13.7 | |
| 34 1,1-Dichloroethane | 63 | 7.729 | 7.728 | 0.001 | 99 | 2102981 | 15.0 | 13.3 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.793 | 7.793 | 0.000 | 100 | 1807895 | 15.0 | 15.1 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 89 | 1372886 | 15.0 | 14.3 | |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.793 | 0.000 | 99 | 426590 | 15.0 | 13.8 | |
| 39 Ethyl acetate | 88 | 8.825 | 8.831 | -0.006 | 99 | 66961 | 15.0 | 15.2 | |
| * 40 Chlorobromomethane | 128 | 9.162 | 9.162 | 0.000 | 76 | 1107803 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.205 | 9.210 | -0.005 | 85 | 787841 | 15.0 | 14.0 | |
| 42 Chloroform | 83 | 9.280 | 9.275 | 0.005 | 95 | 3210215 | 15.0 | 13.9 | |
| 43 Cyclohexane | 84 | 9.531 | 9.537 | -0.006 | 95 | 1479056 | 15.0 | 13.1 | |
| 44 1,1,1-Trichloroethane | 97 | 9.547 | 9.547 | 0.000 | 94 | 3683537 | 15.0 | 13.5 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 30.0 | 27.9 | |
| 45 Carbon tetrachloride | 117 | 9.788 | 9.788 | 0.000 | 98 | 4172078 | 15.0 | 14.3 | |
| 46 Isooctane | 57 | 10.200 | 10.205 | -0.005 | 97 | 5016965 | 15.0 | 13.4 | |
| 47 Benzene | 78 | 10.227 | 10.221 | 0.006 | 95 | 3570443 | 15.0 | 13.6 | |
| 48 1,2-Dichloroethane | 62 | 10.387 | 10.387 | 0.000 | 99 | 2059367 | 15.0 | 13.6 | |
| 49 n-Heptane | 43 | 10.575 | 10.575 | 0.000 | 91 | 1808294 | 15.0 | 13.4 | |
| * 50 1,4-Difluorobenzene | 114 | 11.024 | 11.024 | 0.000 | 93 | 4921763 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.463 | 11.463 | 0.000 | 90 | 590670 | 15.0 | 13.3 | |
| 53 Trichloroethene | 95 | 11.489 | 11.489 | 0.000 | 99 | 2259549 | 15.0 | 13.2 | |
| 54 1,2-Dichloropropane | 63 | 12.030 | 12.024 | 0.006 | 86 | 1293872 | 15.0 | 14.0 | |
| 55 Methyl methacrylate | 69 | 12.212 | 12.217 | -0.005 | 95 | 1098124 | 15.0 | 14.4 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 560457297 | 15.0 | 0 | |
| 57 Dibromomethane | 174 | 12.276 | 12.276 | 0.000 | 96 | 2450905 | 15.0 | 15.5 | |
| 56 1,4-Dioxane | 88 | 12.281 | 12.281 | 0.000 | 36 | 641235 | 15.0 | 13.3 | M |
| 58 Dichlorobromomethane | 83 | 12.565 | 12.565 | 0.000 | 98 | 3677048 | 15.0 | 13.8 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.485 | 13.479 | 0.006 | 94 | 2401051 | 15.0 | 14.6 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.790 | 13.795 | -0.005 | 97 | 2404030 | 15.0 | 14.1 | |
| 65 Toluene | 92 | 14.073 | 14.068 | 0.005 | 94 | 2697537 | 15.0 | 14.5 | |
| 64 n-Octane | 43 | 14.159 | 14.153 | 0.006 | 89 | 2733544 | 15.0 | 13.8 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 906503627 | 15.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 96 | 2393129 | 15.0 | 14.8 | |
| 67 1,1,2-Trichloroethane | 83 | 15.031 | 15.031 | 0.000 | 97 | 1455914 | 15.0 | 14.5 | |
| 68 Tetrachloroethene | 166 | 15.149 | 15.143 | 0.006 | 96 | 3180178 | 15.0 | 14.3 | |
| 69 2-Hexanone | 43 | 15.512 | 15.518 | -0.006 | 94 | 2372638 | 15.0 | 14.5 | |
| 71 Chlorodibromomethane | 129 | 15.791 | 15.790 | 0.001 | 97 | 3504436 | 15.0 | 13.0 | |
| 72 Ethylene Dibromide | 107 | 16.053 | 16.053 | 0.000 | 100 | 3056704 | 15.0 | 15.0 | |
| * 74 Chlorobenzene-d5 | 117 | 16.967 | 16.962 | 0.005 | 84 | 4590569 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 96 | 4212946 | 15.0 | 14.7 | |
| 76 Ethylbenzene | 91 | 17.192 | 17.192 | 0.000 | 98 | 6179511 | 15.0 | 14.8 | |
| 77 n-Nonane | 57 | 17.358 | 17.358 | 0.000 | 86 | 2627135 | 15.0 | 14.3 | |
| 78 m-Xylene & p-Xylene | 106 | 17.449 | 17.449 | 0.000 | 0 | 5063931 | 30.0 | 29.8 | |
| 79 o-Xylene | 106 | 18.294 | 18.294 | 0.000 | 99 | 2399623 | 15.0 | 14.9 | |
| 80 Styrene | 104 | 18.348 | 18.348 | 0.000 | 98 | 3868129 | 15.0 | 15.7 | |
| 81 Bromoform | 173 | 18.792 | 18.786 | 0.006 | 96 | 2161781 | 15.0 | 8.88 | |
| 82 Isopropylbenzene | 105 | 19.049 | 19.048 | 0.001 | 96 | 7117974 | 15.0 | 15.1 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 45.0 | 44.7 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 99 | 3790940 | 15.0 | 14.7 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 99 | 8487730 | 15.0 | 15.1 | |
| 86 1,2,3-Trichloropropane | 75 | 19.867 | 19.867 | 0.000 | 97 | 3079793 | 15.0 | 14.1 | |
| 89 2-Chlorotoluene | 91 | 20.054 | 20.054 | 0.000 | 96 | 6323624 | 15.0 | 14.9 | |
| 88 4-Ethyltoluene | 105 | 20.065 | 20.060 | 0.005 | 97 | 7416727 | 15.0 | 15.5 | |
| 87 n-Decane | 57 | 20.086 | 20.086 | 0.000 | 93 | 3291763 | 15.0 | 14.5 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.183 | 20.177 | 0.006 | 93 | 6168169 | 15.0 | 15.1 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.000 | 91 | 3239717 | 15.0 | 16.9 | |
| 92 tert-Butylbenzene | 119 | 20.702 | 20.702 | 0.000 | 92 | 5791514 | 15.0 | 15.1 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 97 | 6137145 | 15.0 | 15.2 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 98 | 8693056 | 15.0 | 15.3 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | 0.000 | 97 | 7730417 | 15.0 | 15.9 | |
| 96 1,3-Dichlorobenzene | 146 | 21.279 | 21.279 | 0.000 | 96 | 5066879 | 15.0 | 15.5 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 95 | 4788189 | 15.0 | 15.3 | |
| 98 Benzyl chloride | 91 | 21.627 | 21.627 | 0.000 | 99 | 6093646 | 15.0 | 15.8 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 99 | 6926989 | 15.0 | 15.6 | |
| 99 Undecane | 57 | 21.911 | 21.911 | 0.000 | 93 | 3684708 | 15.0 | 14.8 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 96 | 4598903 | 15.0 | 15.3 | |
| 102 Dodecane | 57 | 23.446 | 23.441 | 0.005 | 98 | 3190960 | 15.0 | 16.0 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345 | 24.345 | 0.000 | 94 | 3603443 | 15.0 | 15.9 | |
| 104 Hexachlorobutadiene | 225 | 24.537 | 24.537 | 0.000 | 98 | 3408169 | 15.0 | 15.2 | |
| 105 Naphthalene | 128 | 24.783 | 24.783 | 0.000 | 99 | 7199838 | 15.0 | 16.4 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 95 | 3122511 | 15.0 | 16.0 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL5w_00076 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

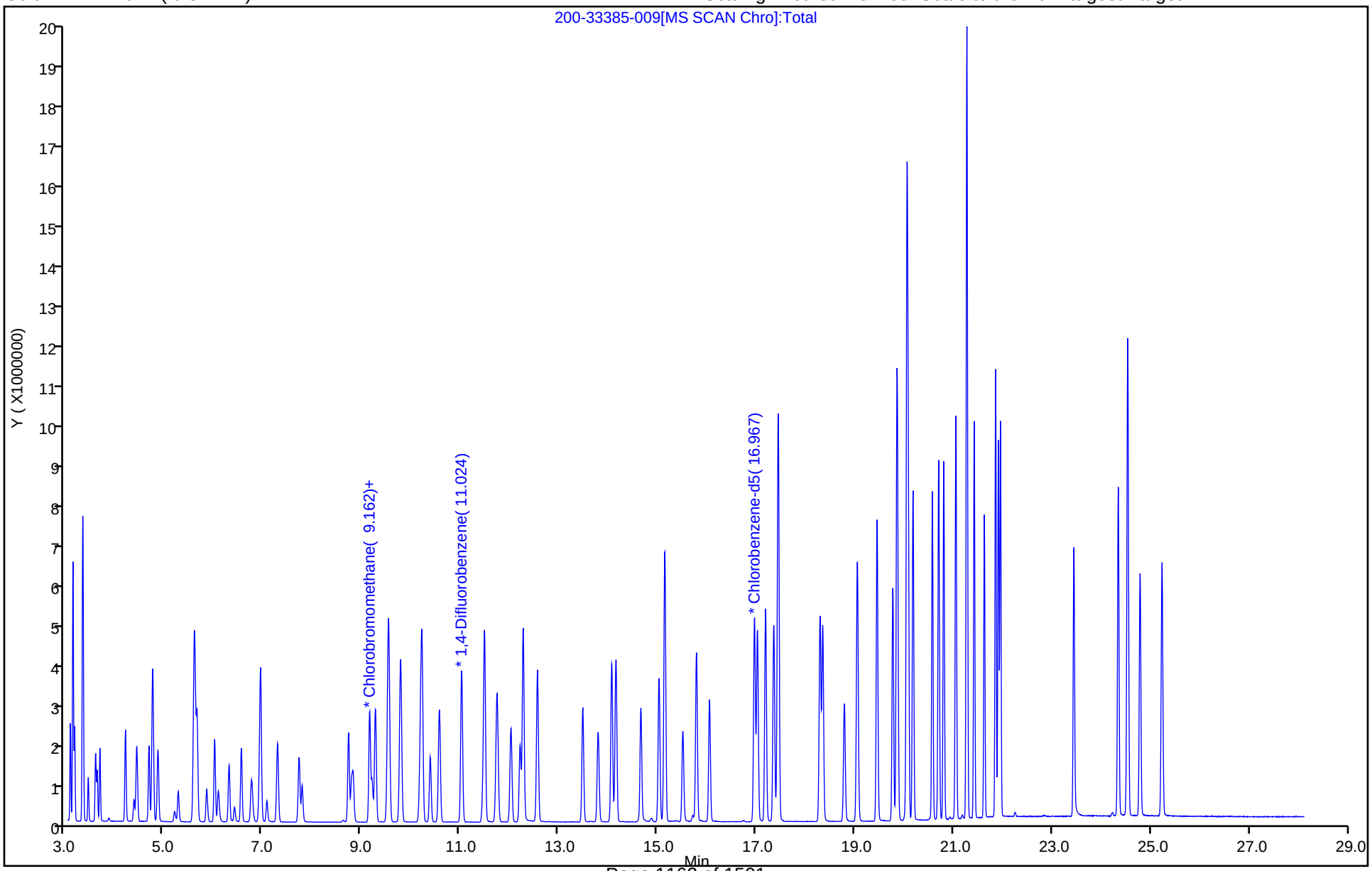
Report Date: 28-Nov-2018 11:37:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-009.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 28-Nov-2018 00:35:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 9 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 8 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

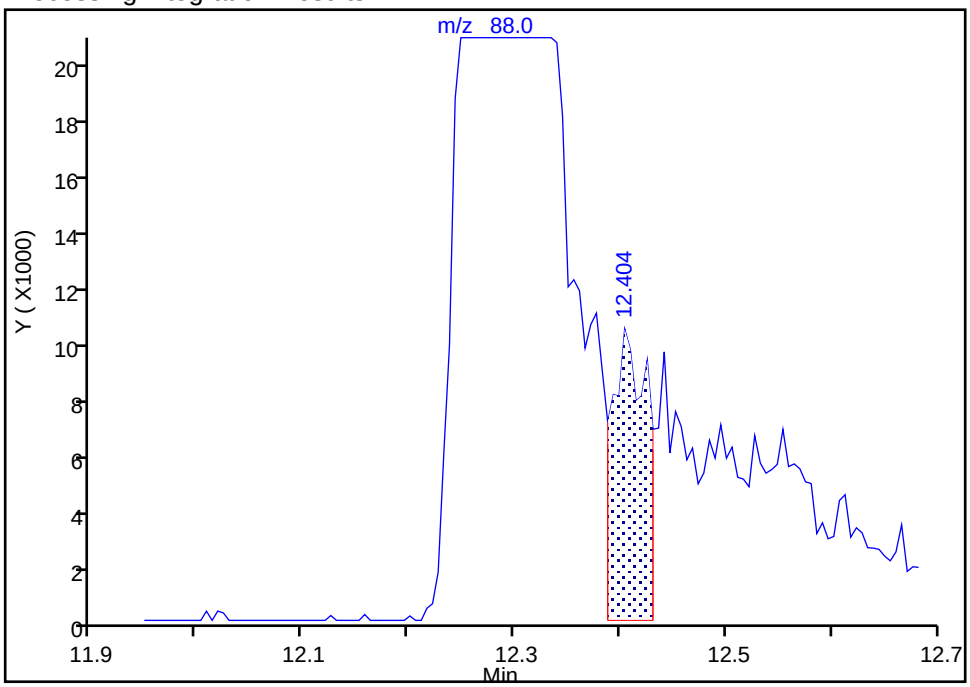
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-009.D | | | | |
| Injection Date: | 28-Nov-2018 00:35:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ic | | | | |
| Client ID: | | | | | |
| Operator ID: | vtp | ALS Bottle#: | 8 | Worklist Smp#: | 9 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

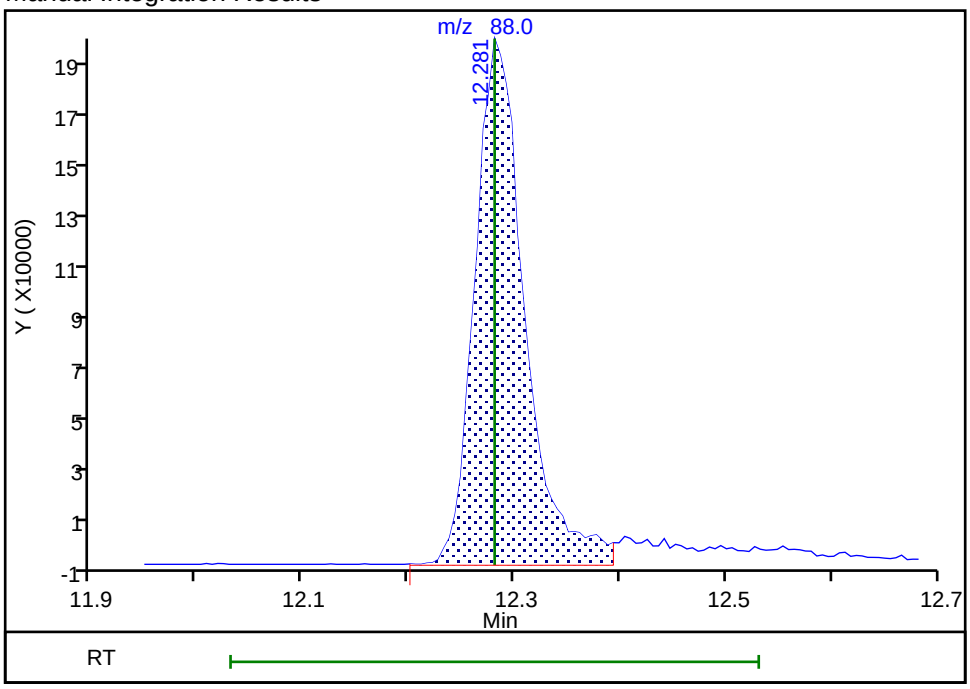
Processing Integration Results

RT: 12.40
Area: 24048
Amount: 0.601975
Amount Units: ppb v/v




Manual Integration Results

RT: 12.28
Area: 641235
Amount: 13.310343
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 09:36:00

Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-010.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Nov-2018 01:25:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-010
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:41 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: mickd Date: 28-Nov-2018 09:38:16

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 98 | 1420070 | 20.0 | 19.0 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 98 | 7395788 | 20.0 | 18.3 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 96 | 3204700 | 20.0 | 18.7 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 88 | 5572029 | 20.0 | 18.4 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 1476396 | 20.0 | 18.8 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 1941633 | 20.0 | 18.4 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 1700616 | 20.0 | 18.0 | |
| 8 Butadiene | 54 | 3.690 | 3.689 | 0.001 | 94 | 1096868 | 20.0 | 18.7 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 99 | 2091603 | 20.0 | 19.2 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 99 | 671660 | 20.0 | 18.5 | |
| 12 2-Methylbutane | 43 | 4.439 | 4.438 | 0.001 | 87 | 1259758 | 20.0 | 18.1 | |
| 13 Vinyl bromide | 106 | 4.685 | 4.685 | 0.001 | 97 | 2054520 | 20.0 | 19.0 | |
| 14 Trichlorofluoromethane | 101 | 4.760 | 4.759 | 0.001 | 98 | 5859677 | 20.0 | 18.4 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 98 | 1888865 | 20.0 | 17.9 | |
| 17 Ethanol | 45 | 5.198 | 5.209 | -0.011 | 96 | 707471 | 40.0 | 32.4 | |
| 18 Ethyl ether | 59 | 5.278 | 5.278 | 0.000 | 97 | 593714 | 20.0 | 16.0 | |
| 19 Acrolein | 56 | 5.594 | 5.594 | 0.000 | 97 | 235550 | 20.0 | 16.6 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610 | 5.605 | 0.005 | 96 | 4119144 | 20.0 | 18.3 | |
| 21 1,1-Dichloroethene | 96 | 5.664 | 5.658 | 0.006 | 97 | 1849152 | 20.0 | 18.7 | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 1383034 | 20.0 | 16.4 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.017 | 0.000 | 99 | 4650752 | 20.0 | 18.3 | |
| 24 Isopropyl alcohol | 45 | 6.092 | 6.097 | -0.005 | 100 | 1788623 | 20.0 | 19.2 | |
| 25 3-Chloro-1-propene | 41 | 6.311 | 6.311 | 0.000 | 95 | 1391342 | 20.0 | 18.9 | |
| 26 Acetonitrile | 41 | 6.418 | 6.423 | -0.005 | 98 | 491620 | 20.0 | 16.0 | |
| 27 Methylene Chloride | 49 | 6.557 | 6.557 | 0.000 | 88 | 1595918 | 20.0 | 17.9 | |
| 28 2-Methyl-2-propanol | 59 | 6.766 | 6.771 | -0.005 | 93 | 2787953 | 20.0 | 19.6 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 95 | 3214537 | 20.0 | 16.7 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.953 | 6.947 | 0.006 | 94 | 2165148 | 20.0 | 18.1 | |
| 32 Acrylonitrile | 53 | 7.076 | 7.076 | 0.000 | 92 | 527389 | 20.0 | 15.7 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 91 | 1757444 | 20.0 | 18.4 | |
| 34 1,1-Dichloroethane | 63 | 7.734 | 7.728 | 0.006 | 99 | 2699325 | 20.0 | 17.5 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.793 | 7.793 | 0.000 | 100 | 1891260 | 20.0 | 16.2 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 89 | 1805960 | 20.0 | 19.3 | |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.793 | -0.005 | 100 | 504703 | 20.0 | 16.7 | |
| 39 Ethyl acetate | 88 | 8.831 | 8.831 | 0.000 | 99 | 76105 | 20.0 | 17.7 | |
| * 40 Chlorobromomethane | 128 | 9.162 | 9.162 | 0.000 | 74 | 1081320 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.205 | 9.210 | -0.005 | 84 | 901182 | 20.0 | 15.6 | |
| 42 Chloroform | 83 | 9.280 | 9.275 | 0.005 | 96 | 4128100 | 20.0 | 18.3 | |
| 43 Cyclohexane | 84 | 9.537 | 9.537 | 0.000 | 94 | 1963429 | 20.0 | 16.9 | |
| 44 1,1,1-Trichloroethane | 97 | 9.547 | 9.547 | 0.000 | 94 | 4755711 | 20.0 | 16.9 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 40.0 | 37.4 | |
| 45 Carbon tetrachloride | 117 | 9.788 | 9.788 | 0.000 | 97 | 5453754 | 20.0 | 18.1 | |
| 46 Isooctane | 57 | 10.205 | 10.205 | 0.000 | 98 | 6475336 | 20.0 | 16.8 | |
| 47 Benzene | 78 | 10.227 | 10.221 | 0.006 | 95 | 4328088 | 20.0 | 16.0 | |
| 48 1,2-Dichloroethane | 62 | 10.393 | 10.387 | 0.006 | 99 | 2489352 | 20.0 | 15.9 | |
| 49 n-Heptane | 43 | 10.575 | 10.575 | 0.000 | 90 | 2336889 | 20.0 | 16.8 | |
| * 50 1,4-Difluorobenzene | 114 | 11.029 | 11.024 | 0.005 | 93 | 5074891 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.457 | 11.463 | -0.006 | 90 | 826101 | 20.0 | 18.1 | |
| 53 Trichloroethene | 95 | 11.489 | 11.489 | 0.000 | 99 | 3073973 | 20.0 | 17.4 | |
| 54 1,2-Dichloropropane | 63 | 12.030 | 12.024 | 0.006 | 86 | 1502966 | 20.0 | 15.8 | |
| 55 Methyl methacrylate | 69 | 12.212 | 12.217 | -0.005 | 95 | 1330674 | 20.0 | 16.9 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 702477121 | 20.0 | 0 | |
| 57 Dibromomethane | 174 | 12.276 | 12.276 | 0.000 | 96 | 2840387 | 20.0 | 17.4 | |
| 56 1,4-Dioxane | 88 | 12.281 | 12.281 | 0.000 | 89 | 869623 | 20.0 | 17.5 | |
| 58 Dichlorobromomethane | 83 | 12.565 | 12.565 | 0.000 | 98 | 4812503 | 20.0 | 17.5 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.485 | 13.479 | 0.006 | 93 | 2908180 | 20.0 | 17.1 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.795 | 13.795 | 0.000 | 96 | 3150659 | 20.0 | 17.9 | |
| 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 94 | 3169437 | 20.0 | 16.9 | |
| 64 n-Octane | 43 | 14.159 | 14.153 | 0.006 | 89 | 3444502 | 20.0 | 16.8 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 1135221346 | 20.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 96 | 2845044 | 20.0 | 17.0 | |
| 67 1,1,2-Trichloroethane | 83 | 15.031 | 15.031 | 0.000 | 97 | 1750288 | 20.0 | 17.2 | |
| 68 Tetrachloroethene | 166 | 15.149 | 15.143 | 0.006 | 96 | 4287756 | 20.0 | 19.1 | |
| 69 2-Hexanone | 43 | 15.512 | 15.518 | -0.006 | 94 | 3189962 | 20.0 | 19.3 | |
| 71 Chlorodibromomethane | 129 | 15.791 | 15.790 | 0.001 | 97 | 5306808 | 20.0 | 19.5 | |
| 72 Ethylene Dibromide | 107 | 16.053 | 16.053 | 0.000 | 99 | 3755698 | 20.0 | 18.3 | |
| * 74 Chlorobenzene-d5 | 117 | 16.968 | 16.962 | 0.006 | 84 | 4636572 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 96 | 5162562 | 20.0 | 17.9 | |
| 76 Ethylbenzene | 91 | 17.192 | 17.192 | 0.000 | 98 | 7378266 | 20.0 | 17.4 | |
| 77 n-Nonane | 57 | 17.358 | 17.358 | 0.000 | 85 | 3204291 | 20.0 | 17.3 | |
| 78 m-Xylene & p-Xylene | 106 | 17.449 | 17.449 | 0.000 | 0 | 6046753 | 40.0 | 35.3 | |
| 79 o-Xylene | 106 | 18.300 | 18.294 | 0.006 | 99 | 2881433 | 20.0 | 17.7 | |
| 80 Styrene | 104 | 18.353 | 18.348 | 0.005 | 98 | 4735875 | 20.0 | 19.0 | |
| 81 Bromoform | 173 | 18.792 | 18.786 | 0.006 | 96 | 5408954 | 20.0 | 22.0 | |
| 82 Isopropylbenzene | 105 | 19.054 | 19.048 | 0.006 | 96 | 8625268 | 20.0 | 18.1 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 60.0 | 53.0 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 99 | 4694500 | 20.0 | 18.1 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 99 | 10131225 | 20.0 | 17.9 | |
| 86 1,2,3-Trichloropropane | 75 | 19.867 | 19.867 | 0.000 | 97 | 3726635 | 20.0 | 16.9 | |
| 89 2-Chlorotoluene | 91 | 20.054 | 20.054 | 0.000 | 96 | 7644964 | 20.0 | 17.8 | |
| 88 4-Ethyltoluene | 105 | 20.065 | 20.060 | 0.005 | 98 | 8937124 | 20.0 | 18.5 | |
| 87 n-Decane | 57 | 20.086 | 20.086 | 0.000 | 93 | 3946033 | 20.0 | 17.3 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.183 | 20.177 | 0.006 | 94 | 7555721 | 20.0 | 18.3 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.000 | 91 | 4096139 | 20.0 | 21.1 | |
| 92 tert-Butylbenzene | 119 | 20.702 | 20.702 | 0.000 | 92 | 7149602 | 20.0 | 18.5 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 97 | 7550261 | 20.0 | 18.5 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 98 | 10673825 | 20.0 | 18.6 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | 0.000 | 97 | 9594097 | 20.0 | 19.5 | |
| 96 1,3-Dichlorobenzene | 146 | 21.279 | 21.279 | 0.000 | 95 | 6341580 | 20.0 | 19.2 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 95 | 5978083 | 20.0 | 18.9 | |
| 98 Benzyl chloride | 91 | 21.627 | 21.627 | 0.000 | 99 | 7695730 | 20.0 | 19.7 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 99 | 8493710 | 20.0 | 19.0 | |
| 99 Undecane | 57 | 21.911 | 21.911 | 0.000 | 93 | 4461241 | 20.0 | 17.7 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 96 | 5743225 | 20.0 | 18.9 | |
| 102 Dodecane | 57 | 23.446 | 23.441 | 0.005 | 98 | 3804271 | 20.0 | 18.9 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345 | 24.345 | 0.000 | 94 | 4536179 | 20.0 | 19.9 | |
| 104 Hexachlorobutadiene | 225 | 24.537 | 24.537 | 0.000 | 98 | 4192325 | 20.0 | 18.5 | |
| 105 Naphthalene | 128 | 24.789 | 24.783 | 0.006 | 99 | 9205645 | 20.0 | 20.8 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 95 | 3934722 | 20.0 | 20.0 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL6w_00158 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

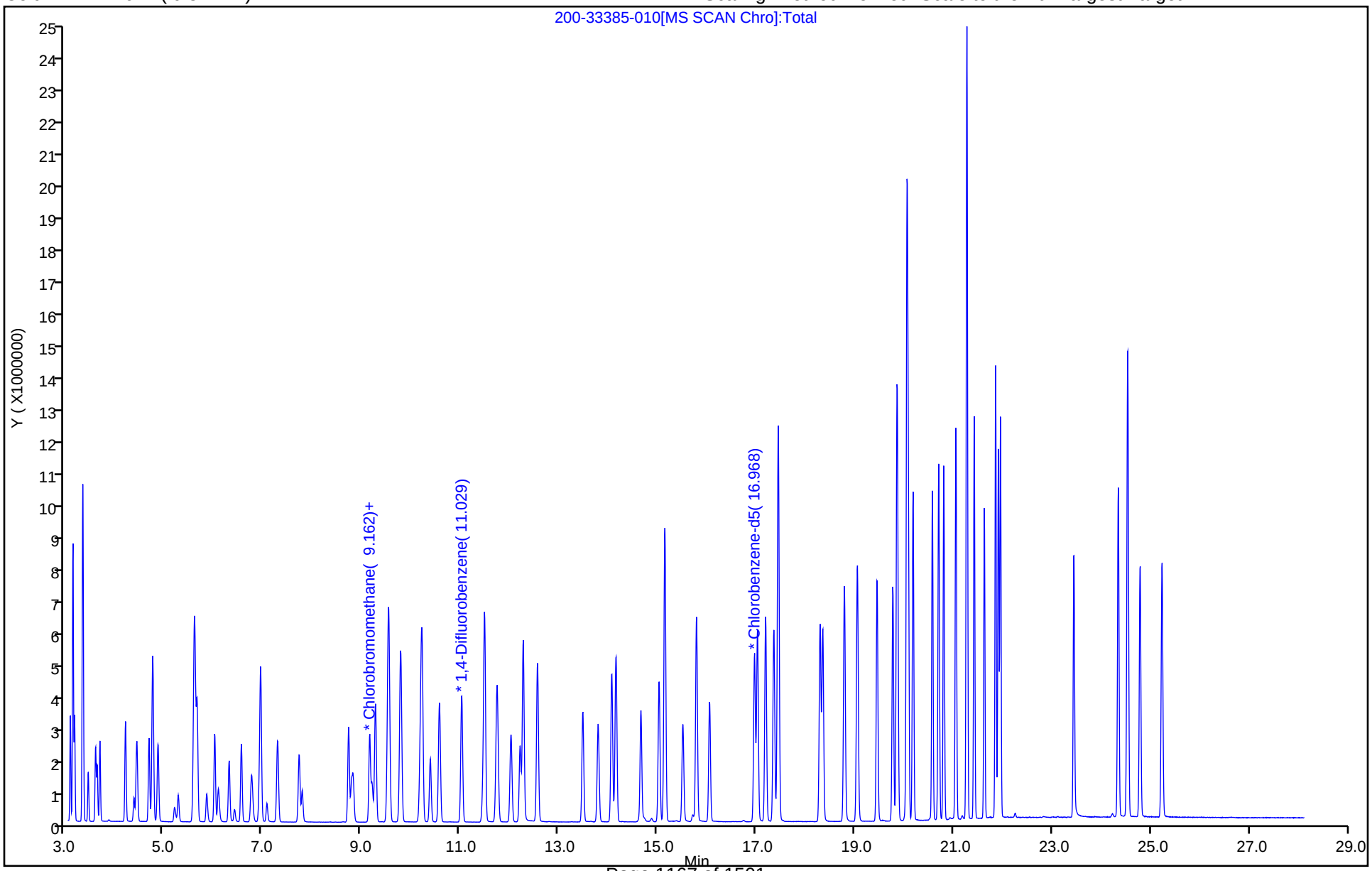
Report Date: 28-Nov-2018 11:37:41 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-010.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 28-Nov-2018 01:25:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 10 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 9 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Nov-2018 02:15:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-011
Operator ID: vtp Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 11:37:42 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: desjardinsb Date: 28-Nov-2018 08:19:04

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.085 | 3.090 | -0.005 | 97 | 2699122 | 40.0 | 34.9 | |
| 2 Dichlorodifluoromethane | 85 | 3.138 | 3.144 | -0.006 | 97 | 13419981 | 40.0 | 32.1 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 96 | 6227733 | 40.0 | 35.0 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 97 | 10569525 | 40.0 | 33.6 | |
| 5 Chloromethane | 50 | 3.449 | 3.454 | -0.005 | 99 | 2915590 | 40.0 | 35.9 | |
| 6 Butane | 43 | 3.598 | 3.604 | -0.006 | 97 | 3758112 | 40.0 | 34.3 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 3380364 | 40.0 | 34.5 | |
| 8 Butadiene | 54 | 3.689 | 3.689 | 0.000 | 93 | 2174691 | 40.0 | 35.7 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 97 | 4157469 | 40.0 | 36.8 | |
| 11 Chloroethane | 64 | 4.379 | 4.380 | -0.001 | 99 | 1365037 | 40.0 | 36.2 | |
| 12 2-Methylbutane | 43 | 4.438 | 4.438 | 0.000 | 88 | 2489976 | 40.0 | 34.5 | |
| 13 Vinyl bromide | 106 | 4.684 | 4.685 | 0.000 | 98 | 4118977 | 40.0 | 36.9 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 97 | 11375500 | 40.0 | 34.5 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 99 | 3791215 | 40.0 | 34.7 | |
| 17 Ethanol | 45 | 5.209 | 5.209 | 0.000 | 97 | 1712095 | 100.0 | 75.6 | |
| 18 Ethyl ether | 59 | 5.278 | 5.278 | 0.000 | 96 | 1271570 | 40.0 | 33.1 | |
| 19 Acrolein | 56 | 5.594 | 5.594 | 0.000 | 97 | 543303 | 40.0 | 37.0 | M |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610 | 5.605 | 0.005 | 96 | 8372996 | 40.0 | 36.0 | |
| 21 1,1-Dichloroethene | 96 | 5.663 | 5.658 | 0.005 | 96 | 3757862 | 40.0 | 36.7 | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 2950498 | 40.0 | 33.8 | |
| 23 Carbon disulfide | 76 | 6.022 | 6.017 | 0.005 | 99 | 9566310 | 40.0 | 36.3 | |
| 24 Isopropyl alcohol | 45 | 6.097 | 6.097 | 0.000 | 100 | 3508874 | 40.0 | 36.4 | |
| 25 3-Chloro-1-propene | 41 | 6.311 | 6.311 | 0.000 | 95 | 2757743 | 40.0 | 36.2 | |
| 26 Acetonitrile | 41 | 6.423 | 6.423 | 0.000 | 97 | 1118502 | 40.0 | 35.1 | |
| 27 Methylene Chloride | 49 | 6.557 | 6.557 | 0.000 | 87 | 3256585 | 40.0 | 35.2 | |
| 28 2-Methyl-2-propanol | 59 | 6.771 | 6.771 | 0.000 | 93 | 5538463 | 40.0 | 37.6 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 94 | 6807313 | 40.0 | 34.2 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.953 | 6.947 | 0.006 | 93 | 4421717 | 40.0 | 35.6 | |
| 32 Acrylonitrile | 53 | 7.081 | 7.076 | 0.005 | 93 | 1255166 | 40.0 | 36.1 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 91 | 3635199 | 40.0 | 36.8 | |
| 34 1,1-Dichloroethane | 63 | 7.734 | 7.728 | 0.006 | 99 | 5626599 | 40.0 | 35.1 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.793 | 7.793 | 0.000 | 100 | 4349907 | 40.0 | 35.9 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 88 | 3807961 | 40.0 | 39.3 | |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.793 | 0.000 | 100 | 1082953 | 40.0 | 34.6 | |
| 39 Ethyl acetate | 88 | 8.830 | 8.831 | -0.001 | 99 | 163260 | 40.0 | 36.6 | |
| * 40 Chlorobromomethane | 128 | 9.167 | 9.162 | 0.005 | 74 | 1119961 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.210 | 9.210 | 0.000 | 84 | 1902316 | 40.0 | 32.2 | |
| 42 Chloroform | 83 | 9.280 | 9.275 | 0.005 | 96 | 8572568 | 40.0 | 36.6 | |
| 43 Cyclohexane | 84 | 9.537 | 9.537 | 0.000 | 94 | 4051197 | 40.0 | 34.1 | |
| 44 1,1,1-Trichloroethane | 97 | 9.553 | 9.547 | 0.006 | 95 | 9855828 | 40.0 | 34.2 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 80.0 | 74.9 | |
| 45 Carbon tetrachloride | 117 | 9.793 | 9.788 | 0.005 | 96 | 11237527 | 40.0 | 36.5 | |
| 46 Isooctane | 57 | 10.205 | 10.205 | 0.000 | 97 | 13317097 | 40.0 | 33.9 | |
| 47 Benzene | 78 | 10.227 | 10.221 | 0.006 | 95 | 9811343 | 40.0 | 35.6 | |
| 48 1,2-Dichloroethane | 62 | 10.393 | 10.387 | 0.006 | 99 | 5487945 | 40.0 | 34.4 | |
| 49 n-Heptane | 43 | 10.580 | 10.575 | 0.005 | 89 | 4741703 | 40.0 | 33.4 | |
| * 50 1,4-Difluorobenzene | 114 | 11.029 | 11.024 | 0.005 | 93 | 5180808 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.457 | 11.463 | -0.006 | 89 | 1724262 | 40.0 | 36.9 | |
| 53 Trichloroethene | 95 | 11.495 | 11.489 | 0.006 | 99 | 6338766 | 40.0 | 35.1 | |
| 54 1,2-Dichloropropane | 63 | 12.030 | 12.024 | 0.006 | 86 | 3457600 | 40.0 | 35.6 | |
| 55 Methyl methacrylate | 69 | 12.217 | 12.217 | 0.000 | 96 | 2914700 | 40.0 | 36.3 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 1475492449 | 40.0 | 0 | |
| 57 Dibromomethane | 174 | 12.281 | 12.276 | 0.005 | 94 | 6458681 | 40.0 | 38.8 | |
| 56 1,4-Dioxane | 88 | 12.281 | 12.281 | 0.000 | 90 | 1725135 | 40.0 | 34.0 | |
| 58 Dichlorobromomethane | 83 | 12.570 | 12.565 | 0.005 | 99 | 10293890 | 40.0 | 36.7 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.485 | 13.479 | 0.006 | 92 | 6564618 | 40.0 | 37.8 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.795 | 13.795 | 0.000 | 96 | 6422005 | 40.0 | 35.8 | |
| 65 Toluene | 92 | 14.073 | 14.068 | 0.005 | 96 | 7579326 | 40.0 | 38.4 | |
| 64 n-Octane | 43 | 14.159 | 14.153 | 0.006 | 87 | 7159103 | 40.0 | 34.3 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 2380698963 | 40.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 96 | 6478563 | 40.0 | 37.9 | |
| 67 1,1,2-Trichloroethane | 83 | 15.036 | 15.031 | 0.005 | 96 | 3930810 | 40.0 | 36.8 | |
| 68 Tetrachloroethene | 166 | 15.154 | 15.143 | 0.011 | 97 | 9530791 | 40.0 | 40.3 | |
| 69 2-Hexanone | 43 | 15.512 | 15.518 | -0.006 | 95 | 6477478 | 40.0 | 37.3 | |
| 71 Chlorodibromomethane | 129 | 15.790 | 15.790 | 0.000 | 96 | 11959307 | 40.0 | 41.8 | |
| 72 Ethylene Dibromide | 107 | 16.058 | 16.053 | 0.005 | 100 | 8668262 | 40.0 | 40.2 | |
| * 74 Chlorobenzene-d5 | 117 | 16.967 | 16.962 | 0.005 | 83 | 4877774 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 96 | 11904403 | 40.0 | 39.2 | |
| 76 Ethylbenzene | 91 | 17.192 | 17.192 | 0.000 | 97 | 16537592 | 40.0 | 37.2 | |
| 77 n-Nonane | 57 | 17.363 | 17.358 | 0.005 | 88 | 7015829 | 40.0 | 36.1 | |
| 78 m-Xylene & p-Xylene | 106 | 17.449 | 17.449 | 0.000 | 0 | 14227820 | 80.0 | 78.9 | e |
| 79 o-Xylene | 106 | 18.299 | 18.294 | 0.005 | 99 | 6699071 | 40.0 | 39.1 | |
| 80 Styrene | 104 | 18.353 | 18.348 | 0.005 | 97 | 10969590 | 40.0 | 41.8 | |
| 81 Bromoform | 173 | 18.792 | 18.786 | 0.006 | 96 | 11998176 | 40.0 | 46.4 | |
| 82 Isopropylbenzene | 105 | 19.054 | 19.048 | 0.006 | 96 | 19146334 | 40.0 | 38.2 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 120.0 | 118.0 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.776 | 19.771 | 0.005 | 98 | 9888341 | 40.0 | 36.2 | |
| 85 N-Propylbenzene | 91 | 19.856 | 19.851 | 0.005 | 97 | 20945257 | 40.0 | 35.1 | e |
| 86 1,2,3-Trichloropropane | 75 | 19.872 | 19.867 | 0.005 | 95 | 7781871 | 40.0 | 33.5 | |
| 89 2-Chlorotoluene | 91 | 20.059 | 20.054 | 0.005 | 95 | 16128555 | 40.0 | 35.8 | |
| 88 4-Ethyltoluene | 105 | 20.065 | 20.060 | 0.005 | 96 | 19068557 | 40.0 | 37.5 | |
| 87 n-Decane | 57 | 20.092 | 20.086 | 0.006 | 93 | 8101213 | 40.0 | 33.7 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.188 | 20.177 | 0.011 | 95 | 16252663 | 40.0 | 37.4 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.578 | 20.573 | 0.005 | 93 | 9352072 | 40.0 | 45.8 | |
| 92 tert-Butylbenzene | 119 | 20.707 | 20.702 | 0.005 | 93 | 15852197 | 40.0 | 39.0 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.808 | 20.803 | 0.005 | 96 | 16033863 | 40.0 | 37.4 | |
| 94 sec-Butylbenzene | 105 | 21.044 | 21.049 | -0.005 | 97 | 20565381 | 40.0 | 34.1 | e |
| 95 4-Isopropyltoluene | 119 | 21.268 | 21.269 | -0.001 | 94 | 18636156 | 40.0 | 36.1 | e |
| 96 1,3-Dichlorobenzene | 146 | 21.285 | 21.279 | 0.005 | 95 | 13465059 | 40.0 | 38.7 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 92 | 12802544 | 40.0 | 38.5 | |
| 98 Benzyl chloride | 91 | 21.632 | 21.627 | 0.005 | 99 | 15523695 | 40.0 | 37.8 | e |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 95 | 16429525 | 40.0 | 34.9 | e |
| 99 Undecane | 57 | 21.916 | 21.911 | 0.005 | 91 | 8868673 | 40.0 | 33.5 | |
| 101 1,2-Dichlorobenzene | 146 | 21.959 | 21.953 | 0.006 | 94 | 12229345 | 40.0 | 38.3 | |
| 102 Dodecane | 57 | 23.446 | 23.441 | 0.005 | 97 | 7604798 | 40.0 | 35.8 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345 | 24.345 | 0.000 | 94 | 9605184 | 40.0 | 40.0 | |
| 104 Hexachlorobutadiene | 225 | 24.537 | 24.537 | 0.000 | 97 | 8641895 | 40.0 | 36.2 | |
| 105 Naphthalene | 128 | 24.789 | 24.783 | 0.006 | 99 | 18868971 | 40.0 | 40.5 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 94 | 8204087 | 40.0 | 39.6 | |

## QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL7w_00079 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

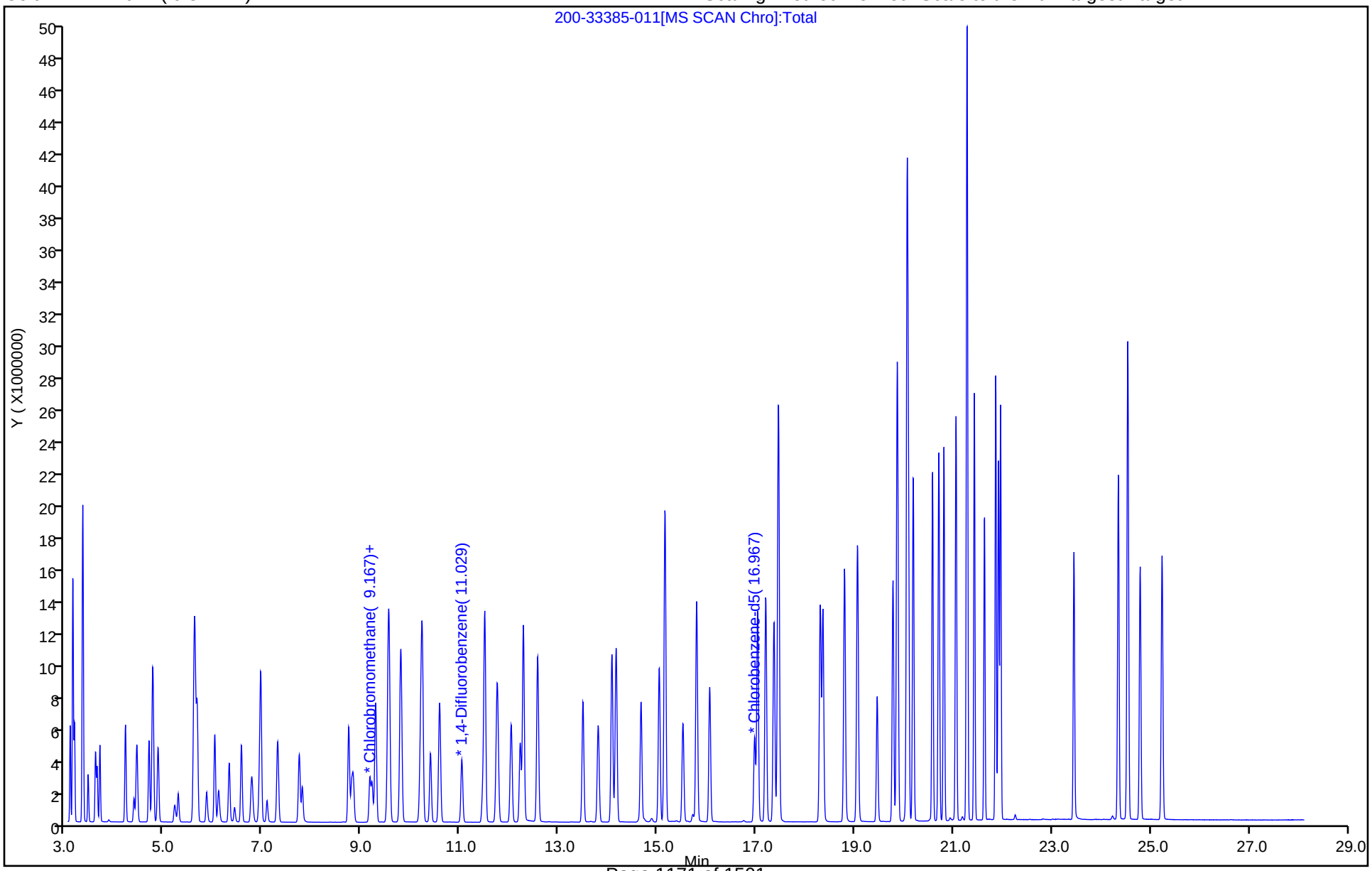
Report Date: 28-Nov-2018 11:37:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 28-Nov-2018 02:15:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | ic | | | Worklist Smp#: | 11 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 10 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

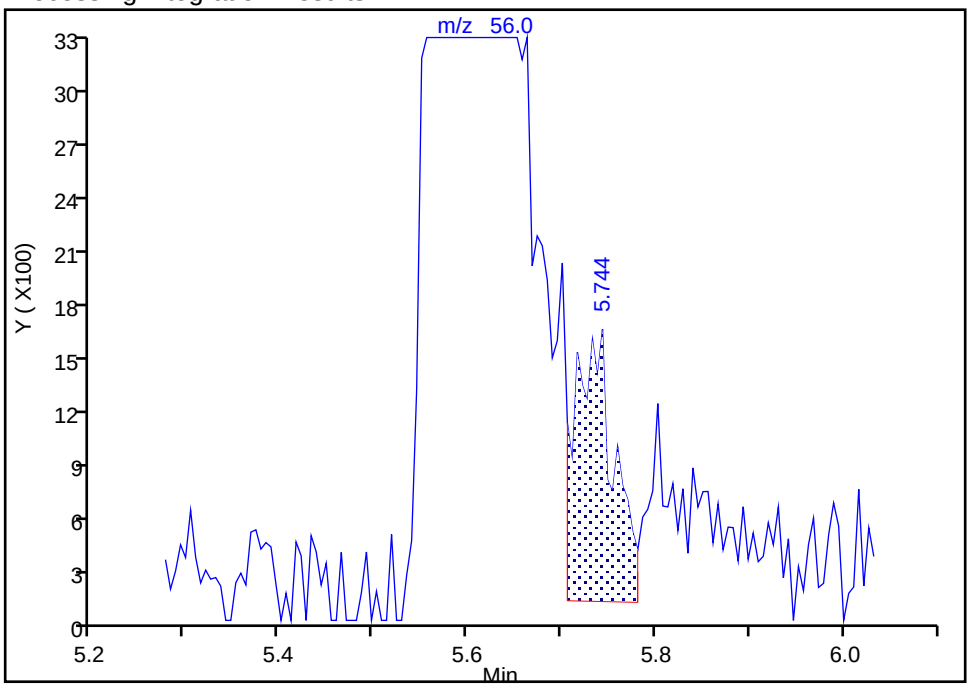
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D
Injection Date: 28-Nov-2018 02:15:30 Instrument ID: CHG.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 19 Acrolein, CAS: 107-02-8

Signal: 1

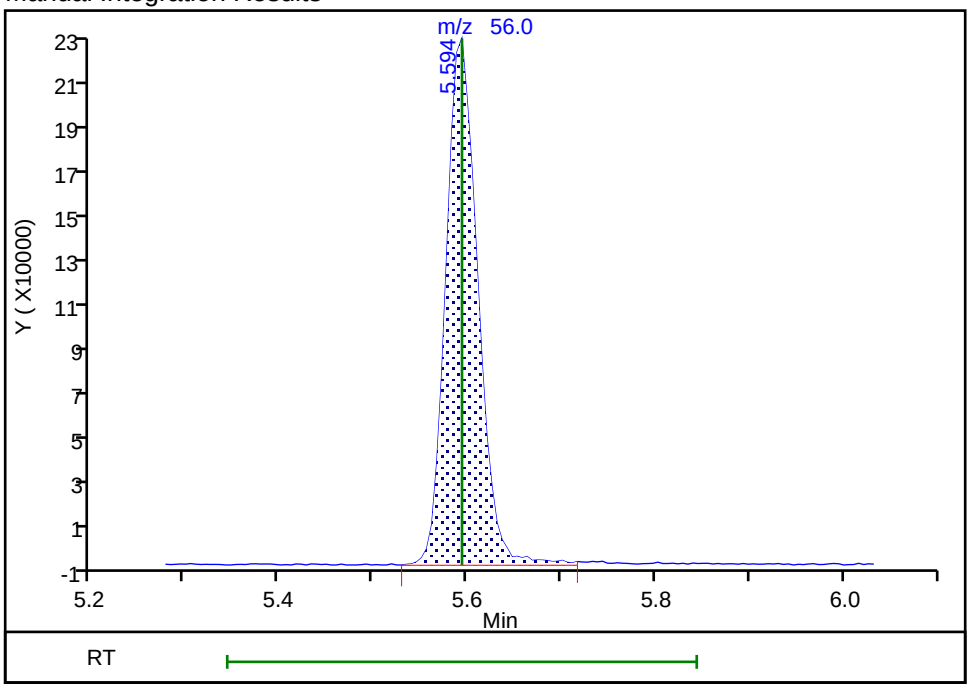
Processing Integration Results

RT: 5.74
Area: 4400
Amount: 0.366909
Amount Units: ppb v/v




Manual Integration Results

RT: 5.59
Area: 543303
Amount: 36.991832
Amount Units: ppb v/v




Reviewer: mickd, 28-Nov-2018 10:26:02
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: ICV 200-137783/21 Calibration Date: 12/05/2018 11:56

Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/05/2018 09:17

Lab File ID: 33516-21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.3986 | 0.3235 | | 8.11 | 10.0 | -18.8 | 30.0 |
| Dichlorodifluoromethane | Ave | 1.959 | 1.775 | | 9.06 | 10.0 | -9.4 | 30.0 |
| Chlorodifluoromethane | Ave | 0.9872 | 0.8622 | | 8.73 | 10.0 | -12.7 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 1.533 | 1.553 | | 10.1 | 10.0 | 1.3 | 30.0 |
| Chloromethane | Ave | 0.3700 | 0.3194 | | 8.63 | 10.0 | -13.7 | 30.0 |
| n-Butane | Ave | 0.5525 | 0.4912 | | 8.89 | 10.0 | -11.1 | 30.0 |
| Vinyl chloride | Ave | 0.4247 | 0.3794 | | 8.93 | 10.0 | -10.7 | 30.0 |
| 1,3-Butadiene | Ave | 0.2826 | 0.2554 | | 9.04 | 10.0 | -9.6 | 30.0 |
| Bromomethane | Ave | 0.3818 | 0.3801 | | 9.95 | 10.0 | -0.4 | 30.0 |
| Chloroethane | Ave | 0.1626 | 0.1572 | | 9.66 | 10.0 | -3.3 | 30.0 |
| Isopentane | Ave | 0.3215 | 0.3011 | | 9.36 | 10.0 | -6.4 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.4632 | 0.4896 | | 10.6 | 10.0 | 5.7 | 30.0 |
| Trichlorofluoromethane | Ave | 1.807 | 1.770 | | 9.79 | 10.0 | -2.1 | 30.0 |
| n-Pentane | Ave | 0.6539 | 0.5840 | | 8.93 | 10.0 | -10.7 | 30.0 |
| Ethanol | Ave | 0.1517 | 0.1390 | | 13.7 | 15.0 | -8.4 | 30.0 |
| Ethyl ether | Ave | 0.2870 | 0.2961 | | 10.3 | 10.0 | 3.2 | 30.0 |
| Acrolein | Ave | 0.1328 | 0.1374 | | 10.3 | 10.0 | 3.5 | 30.0 |
| 1,1,2-Trichlorotrifluoroethane | Ave | 1.179 | 1.038 | | 8.81 | 10.0 | -11.9 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.4775 | 0.4253 | | 8.90 | 10.0 | -10.9 | 30.0 |
| Acetone | Ave | 0.7942 | 0.6500 | | 8.18 | 10.0 | -18.2 | 30.0 |
| Carbon disulfide | Ave | 1.318 | 1.233 | | 9.36 | 10.0 | -6.4 | 30.0 |
| Isopropyl alcohol | Ave | 0.6986 | 0.5670 | | 8.11 | 10.0 | -18.8 | 30.0 |
| 3-Chloropropene | Ave | 0.4710 | 0.3908 | | 8.29 | 10.0 | -17.0 | 30.0 |
| Acetonitrile | Ave | 0.2466 | 0.2263 | | 9.18 | 10.0 | -8.2 | 30.0 |
| Methylene Chloride | Ave | 0.5431 | 0.4372 | | 8.05 | 10.0 | -19.5 | 30.0 |
| tert-Butyl alcohol | Ave | 1.056 | 1.012 | | 9.58 | 10.0 | -4.1 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.570 | 1.477 | | 9.40 | 10.0 | -6.0 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 0.7089 | 0.6887 | | 9.71 | 10.0 | -2.9 | 30.0 |
| Acrylonitrile | Ave | 0.2644 | 0.2488 | | 9.40 | 10.0 | -5.9 | 30.0 |
| n-Hexane | Ave | 0.6203 | 0.5836 | | 9.41 | 10.0 | -5.9 | 30.0 |
| 1,1-Dichloroethane | Ave | 0.9177 | 0.8076 | | 8.80 | 10.0 | -12.0 | 30.0 |
| Vinyl acetate | Ave | 1.111 | 0.9884 | | 8.90 | 10.0 | -11.0 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.5466 | 0.5099 | | 9.33 | 10.0 | -6.7 | 30.0 |
| Methyl Ethyl Ketone (2-Butanone) | Ave | 0.2302 | 0.2124 | | 9.22 | 10.0 | -7.8 | 30.0 |
| Ethyl acetate | Ave | 0.0440 | 0.0427 | | 9.70 | 10.0 | -2.9 | 30.0 |
| Tetrahydrofuran | Ave | 0.0785 | 0.0683 | | 8.69 | 10.0 | -13.1 | 30.0 |
| Chloroform | Ave | 1.313 | 1.261 | | 9.60 | 10.0 | -4.0 | 30.0 |
| Cyclohexane | Ave | 0.1265 | 0.1169 | | 9.24 | 10.0 | -7.6 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.3037 | 0.2677 | | 8.81 | 10.0 | -11.9 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: ICV 200-137783/21 Calibration Date: 12/05/2018 11:56

Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/05/2018 09:17

Lab File ID: 33516-21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | Ave | 0.3279 | 0.3013 | | 9.19 | 10.0 | -8.1 | 30.0 |
| 2,2,4-Trimethylpentane | Ave | 0.4437 | 0.3805 | | 8.57 | 10.0 | -14.2 | 30.0 |
| Benzene | Ave | 0.3141 | 0.2766 | | 8.80 | 10.0 | -12.0 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.2032 | 0.1736 | | 8.54 | 10.0 | -14.6 | 30.0 |
| n-Heptane | Ave | 0.1609 | 0.1322 | | 8.22 | 10.0 | -17.8 | 30.0 |
| n-Butanol | Ave | 0.0614 | 0.0609 | | 9.92 | 10.0 | -0.8 | 30.0 |
| Trichloroethene | Ave | 0.1721 | 0.1682 | | 9.77 | 10.0 | -2.3 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.1221 | 0.1082 | | 8.86 | 10.0 | -11.4 | 30.0 |
| Methyl methacrylate | Ave | 0.1267 | 0.1176 | | 9.28 | 10.0 | -7.2 | 30.0 |
| 1,4-Dioxane | Ave | 0.0767 | 0.0712 | | 9.29 | 10.0 | -7.1 | 30.0 |
| Dibromomethane | Ave | 0.1941 | 0.1905 | | 9.81 | 10.0 | -1.8 | 30.0 |
| Bromodichloromethane | Ave | 0.3270 | 0.3023 | | 9.24 | 10.0 | -7.5 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.2385 | 0.2092 | | 8.77 | 10.0 | -12.3 | 30.0 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave | 0.2579 | 0.2135 | | 8.28 | 10.0 | -17.2 | 30.0 |
| Toluene | Ave | 0.2747 | 0.2610 | | 9.50 | 10.0 | -5.0 | 30.0 |
| n-Octane | Ave | 0.2542 | 0.2161 | | 8.50 | 10.0 | -15.0 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.2450 | 0.2313 | | 9.44 | 10.0 | -5.6 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.1329 | 0.1231 | | 9.26 | 10.0 | -7.4 | 30.0 |
| Tetrachloroethene | Ave | 0.2774 | 0.2744 | | 9.89 | 10.0 | -1.1 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.2497 | 0.2029 | | 8.12 | 10.0 | -18.7 | 30.0 |
| Dibromochloromethane | Ave | 0.3169 | 0.3155 | | 9.96 | 10.0 | -0.4 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.2651 | 0.2590 | | 9.77 | 10.0 | -2.3 | 30.0 |
| Chlorobenzene | Ave | 0.3827 | 0.3717 | | 9.71 | 10.0 | -2.9 | 30.0 |
| Ethylbenzene | Ave | 0.6400 | 0.6041 | | 9.44 | 10.0 | -5.6 | 30.0 |
| n-Nonane | Ave | 0.2581 | 0.2257 | | 8.74 | 10.0 | -12.6 | 30.0 |
| m,p-Xylene | Ave | 0.2354 | 0.2303 | | 19.6 | 20.0 | -2.2 | 30.0 |
| o-Xylene | Ave | 0.2305 | 0.2315 | | 10.0 | 10.0 | 0.5 | 30.0 |
| Styrene | Ave | 0.3558 | 0.3587 | | 10.1 | 10.0 | 0.8 | 30.0 |
| Bromoform | Ave | 0.2871 | 0.3315 | | 11.5 | 10.0 | 15.4 | 30.0 |
| Cumene | Ave | 0.7356 | 0.7228 | | 9.83 | 10.0 | -1.7 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.3411 | 0.3125 | | 9.16 | 10.0 | -8.4 | 30.0 |
| n-Propylbenzene | Ave | 0.8615 | 0.8293 | | 9.62 | 10.0 | -3.7 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.2950 | 0.2596 | | 8.80 | 10.0 | -12.0 | 30.0 |
| 2-Chlorotoluene | Ave | 0.6244 | 0.5935 | | 9.50 | 10.0 | -4.9 | 30.0 |
| 4-Ethyltoluene | Ave | 0.7192 | 0.7297 | | 10.1 | 10.0 | 1.5 | 30.0 |
| n-Decane | Ave | 0.3232 | 0.2826 | | 8.74 | 10.0 | -12.6 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.6484 | 0.6416 | | 9.89 | 10.0 | -1.0 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.2952 | 0.3052 | | 10.3 | 10.0 | 3.4 | 30.0 |
| tert-Butylbenzene | Ave | 0.6169 | 0.6130 | | 9.93 | 10.0 | -0.6 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.6499 | 0.6418 | | 9.87 | 10.0 | -1.2 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: ICV 200-137783/21 Calibration Date: 12/05/2018 11:56

Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/05/2018 09:17

Lab File ID: 33516-21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | Ave | 0.8947 | 0.8806 | | 9.84 | 10.0 | -1.6 | 30.0 |
| 4-Isopropyltoluene | Ave | 0.7850 | 0.7894 | | 10.1 | 10.0 | 0.6 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.4395 | 0.4537 | | 10.3 | 10.0 | 3.2 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.4460 | 0.4660 | | 10.4 | 10.0 | 4.5 | 30.0 |
| Benzyl chloride | Ave | 0.6101 | 0.5638 | | 9.24 | 10.0 | -7.6 | 30.0 |
| n-Butylbenzene | Ave | 0.7164 | 0.6797 | | 9.48 | 10.0 | -5.1 | 30.0 |
| n-Undecane | Ave | 0.3478 | 0.3236 | | 9.30 | 10.0 | -7.0 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.4272 | 0.4384 | | 10.3 | 10.0 | 2.6 | 30.0 |
| n-Dodecane | Ave | 0.3349 | 0.2885 | | 8.61 | 10.0 | -13.8 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3845 | 0.3616 | | 9.40 | 10.0 | -6.0 | 30.0 |
| Hexachlorobutadiene | Ave | 0.3598 | 0.3577 | | 9.94 | 10.0 | -0.6 | 30.0 |
| Naphthalene | Ave | 0.7587 | 0.6440 | | 8.49 | 10.0 | -15.1 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3568 | 0.3100 | | 8.69 | 10.0 | -13.1 | 30.0 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-21.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 05-Dec-2018 11:56:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-021
Operator ID: ert Instrument ID: CHC.i
Sublist:

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:35:38 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 14:17:20

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.967 | 2.962 | 0.005 | 92 | 84363 | 10.0 | 8.11 | |
| 2 Dichlorodifluoromethane | 85 | 3.037 | 3.031 | 0.006 | 100 | 462932 | 10.0 | 9.06 | |
| 3 Chlorodifluoromethane | 51 | 3.085 | 3.080 | 0.005 | 97 | 224838 | 10.0 | 8.73 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.293 | 3.288 | 0.005 | 92 | 404987 | 10.0 | 10.1 | |
| 5 Chloromethane | 50 | 3.421 | 3.416 | 0.005 | 98 | 83294 | 10.0 | 8.63 | |
| 6 Butane | 43 | 3.618 | 3.619 | -0.001 | 93 | 128101 | 10.0 | 8.89 | |
| 7 Vinyl chloride | 62 | 3.661 | 3.656 | 0.005 | 100 | 98949 | 10.0 | 8.93 | |
| 8 Butadiene | 54 | 3.736 | 3.731 | 0.005 | 95 | 66603 | 10.0 | 9.04 | |
| 10 Bromomethane | 94 | 4.398 | 4.392 | 0.006 | 96 | 99109 | 10.0 | 9.95 | |
| 11 Chloroethane | 64 | 4.638 | 4.627 | 0.011 | 97 | 40993 | 10.0 | 9.66 | |
| 12 2-Methylbutane | 43 | 4.723 | 4.713 | 0.010 | 83 | 78523 | 10.0 | 9.36 | |
| 9 BFB | | | | | | | | | |
| 13 Vinyl bromide | 106 | 5.027 | 5.022 | 0.005 | 98 | 127674 | 10.0 | 10.6 | |
| 14 Trichlorofluoromethane | 101 | 5.139 | 5.134 | 0.005 | 99 | 461558 | 10.0 | 9.79 | |
| 16 Pentane | 43 | 5.289 | 5.284 | 0.005 | 95 | 152280 | 10.0 | 8.93 | |
| 17 Ethanol | 45 | 5.721 | 5.716 | 0.005 | 96 | 54377 | 15.0 | 13.7 | |
| 18 Ethyl ether | 59 | 5.801 | 5.801 | 0.000 | 95 | 77220 | 10.0 | 10.3 | |
| 19 Acrolein | 56 | 6.164 | 6.159 | 0.005 | 98 | 35840 | 10.0 | 10.3 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.228 | 6.223 | 0.005 | 96 | 270753 | 10.0 | 8.81 | |
| 21 1,1-Dichloroethene | 96 | 6.255 | 6.250 | 0.005 | 97 | 110895 | 10.0 | 8.90 | |
| 22 Acetone | 43 | 6.474 | 6.468 | 0.006 | 100 | 169491 | 10.0 | 8.18 | |
| 23 Carbon disulfide | 76 | 6.628 | 6.629 | -0.001 | 100 | 321611 | 10.0 | 9.36 | |
| 24 Isopropyl alcohol | 45 | 6.799 | 6.794 | 0.005 | 98 | 147854 | 10.0 | 8.11 | |
| 25 3-Chloro-1-propene | 41 | 7.039 | 7.039 | 0.000 | 88 | 101903 | 10.0 | 8.29 | |
| 26 Acetonitrile | 41 | 7.135 | 7.136 | -0.001 | 96 | 59014 | 10.0 | 9.18 | |
| 27 Methylene Chloride | 49 | 7.338 | 7.333 | 0.005 | 91 | 114019 | 10.0 | 8.05 | |
| 28 2-Methyl-2-propanol | 59 | 7.573 | 7.573 | 0.000 | 95 | 263856 | 10.0 | 9.58 | |
| 29 Methyl tert-butyl ether | 73 | 7.754 | 7.749 | 0.005 | 94 | 385089 | 10.0 | 9.40 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.786 | 7.787 | -0.001 | 98 | 179591 | 10.0 | 9.71 | |
| 32 Acrylonitrile | 53 | 7.909 | 7.909 | 0.000 | 89 | 64868 | 10.0 | 9.40 | |
| 33 Hexane | 57 | 8.192 | 8.192 | 0.000 | 86 | 152186 | 10.0 | 9.41 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.651 | 8.651 | 0.000 | 99 | 210610 | 10.0 | 8.80 | |
| 35 Vinyl acetate | 43 | 8.742 | 8.737 | 0.005 | 99 | 257759 | 10.0 | 8.90 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.766 | 9.767 | -0.001 | 94 | 132963 | 10.0 | 9.33 | |
| 38 2-Butanone (MEK) | 72 | 9.804 | 9.804 | 0.000 | 99 | 55379 | 10.0 | 9.22 | |
| 39 Ethyl acetate | 88 | 9.873 | 9.873 | 0.000 | 99 | 11145 | 10.0 | 9.70 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 19.0 | |
| * 40 Chlorobromomethane | 128 | 10.231 | 10.226 | 0.005 | 77 | 260828 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.236 | 10.231 | 0.005 | 79 | 103472 | 10.0 | 8.69 | |
| 42 Chloroform | 83 | 10.375 | 10.370 | 0.005 | 97 | 328753 | 10.0 | 9.60 | |
| 43 Cyclohexane | 84 | 10.626 | 10.626 | 0.000 | 92 | 177175 | 10.0 | 9.24 | |
| 44 1,1,1-Trichloroethane | 97 | 10.642 | 10.642 | 0.000 | 94 | 405628 | 10.0 | 8.81 | |
| 45 Carbon tetrachloride | 117 | 10.903 | 10.898 | 0.005 | 99 | 456617 | 10.0 | 9.19 | |
| 46 Isooctane | 57 | 11.346 | 11.352 | -0.006 | 96 | 576615 | 10.0 | 8.57 | |
| 47 Benzene | 78 | 11.352 | 11.352 | 0.000 | 97 | 419085 | 10.0 | 8.80 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 263095 | 10.0 | 8.54 | |
| 49 n-Heptane | 43 | 11.757 | 11.757 | 0.000 | 83 | 200329 | 10.0 | 8.22 | |
| * 50 1,4-Difluorobenzene | 114 | 12.211 | 12.211 | 0.000 | 94 | 1515624 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.622 | 12.617 | 0.005 | 88 | 92302 | 10.0 | 9.92 | |
| 53 Trichloroethene | 95 | 12.680 | 12.681 | -0.001 | 98 | 254865 | 10.0 | 9.77 | |
| A 51 GRO | 1 | 12.963 | (4.703-21.224) | | 0 | 79582984 | 10.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.219 | 13.220 | -0.001 | 80 | 163894 | 10.0 | 8.86 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 94 | 178183 | 10.0 | 9.28 | |
| 56 1,4-Dioxane | 88 | 13.454 | 13.454 | 0.000 | 90 | 107919 | 10.0 | 9.29 | |
| 57 Dibromomethane | 174 | 13.486 | 13.486 | 0.000 | 91 | 288632 | 10.0 | 9.81 | |
| 58 Dichlorobromomethane | 83 | 13.801 | 13.801 | 0.000 | 99 | 458145 | 10.0 | 9.24 | |
| A 59 TVOC as Toluene | 1 | 14.653 | (2.952-26.353) | | 0 | 131225815 | 10.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 95 | 316971 | 10.0 | 8.77 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.029 | 15.029 | 0.000 | 93 | 323532 | 10.0 | 8.28 | |
| 65 Toluene | 92 | 15.344 | 15.338 | 0.006 | 93 | 412278 | 10.0 | 9.50 | |
| 64 n-Octane | 43 | 15.445 | 15.445 | 0.000 | 82 | 327423 | 10.0 | 8.50 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.947 | 15.947 | 0.000 | 98 | 350525 | 10.0 | 9.44 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 97 | 194495 | 10.0 | 9.26 | |
| 68 Tetrachloroethene | 166 | 16.443 | 16.443 | 0.000 | 96 | 433527 | 10.0 | 9.89 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 96 | 320505 | 10.0 | 8.12 | |
| 71 Chlorodibromomethane | 129 | 17.083 | 17.078 | 0.005 | 98 | 498458 | 10.0 | 9.96 | |
| 72 Ethylene Dibromide | 107 | 17.334 | 17.334 | 0.000 | 99 | 409139 | 10.0 | 9.77 | |
| * 74 Chlorobenzene-d5 | 117 | 18.247 | 18.247 | 0.000 | 86 | 1580065 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.306 | 18.306 | 0.000 | 94 | 587129 | 10.0 | 9.71 | |
| 76 Ethylbenzene | 91 | 18.466 | 18.466 | 0.000 | 98 | 954248 | 10.0 | 9.44 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 80 | 356505 | 10.0 | 8.74 | |
| 78 m-Xylene & p-Xylene | 106 | 18.711 | 18.717 | -0.006 | 0 | 727475 | 20.0 | 19.6 | |
| 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 98 | 365783 | 10.0 | 10.0 | |
| 80 Styrene | 104 | 19.602 | 19.603 | -0.001 | 99 | 566653 | 10.0 | 10.1 | |
| 81 Bromoform | 173 | 20.035 | 20.035 | 0.000 | 98 | 523618 | 10.0 | 11.5 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 29.6 | |
| 82 Isopropylbenzene | 105 | 20.264 | 20.264 | 0.000 | 96 | 1141910 | 10.0 | 9.83 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.931 | 20.931 | 0.000 | 98 | 493616 | 10.0 | 9.16 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 98 | 1310051 | 10.0 | 9.62 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 94 | 410102 | 10.0 | 8.80 | |
| 89 2-Chlorotoluene | 91 | 21.203 | 21.204 | -0.001 | 95 | 937581 | 10.0 | 9.50 | |
| 88 4-Ethyltoluene | 105 | 21.203 | 21.204 | -0.001 | 98 | 1152759 | 10.0 | 10.1 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 96 | 446368 | 10.0 | 8.74 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 92 | 1013606 | 10.0 | 9.89 | |
| 91 Alpha Methyl Styrene | 118 | 21.684 | 21.689 | -0.005 | 88 | 482123 | 10.0 | 10.3 | |
| 92 tert-Butylbenzene | 119 | 21.807 | 21.807 | 0.000 | 92 | 968355 | 10.0 | 9.93 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.908 | 21.908 | 0.000 | 98 | 1013916 | 10.0 | 9.87 | |
| 94 sec-Butylbenzene | 105 | 22.143 | 22.143 | 0.000 | 98 | 1391070 | 10.0 | 9.84 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 97 | 1247082 | 10.0 | 10.1 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 98 | 716801 | 10.0 | 10.3 | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 95 | 736096 | 10.0 | 10.4 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 890706 | 10.0 | 9.24 | |
| 100 n-Butylbenzene | 91 | 22.917 | 22.917 | 0.000 | 98 | 1073722 | 10.0 | 9.48 | |
| 99 Undecane | 57 | 22.959 | 22.959 | 0.000 | 89 | 511182 | 10.0 | 9.30 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 96 | 692531 | 10.0 | 10.3 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 94 | 455829 | 10.0 | 8.61 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 94 | 571201 | 10.0 | 9.40 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 98 | 565135 | 10.0 | 9.94 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 1017300 | 10.0 | 8.49 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.338 | 26.343 | -0.005 | 96 | 489661 | 10.0 | 8.69 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15LCSW_00788 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

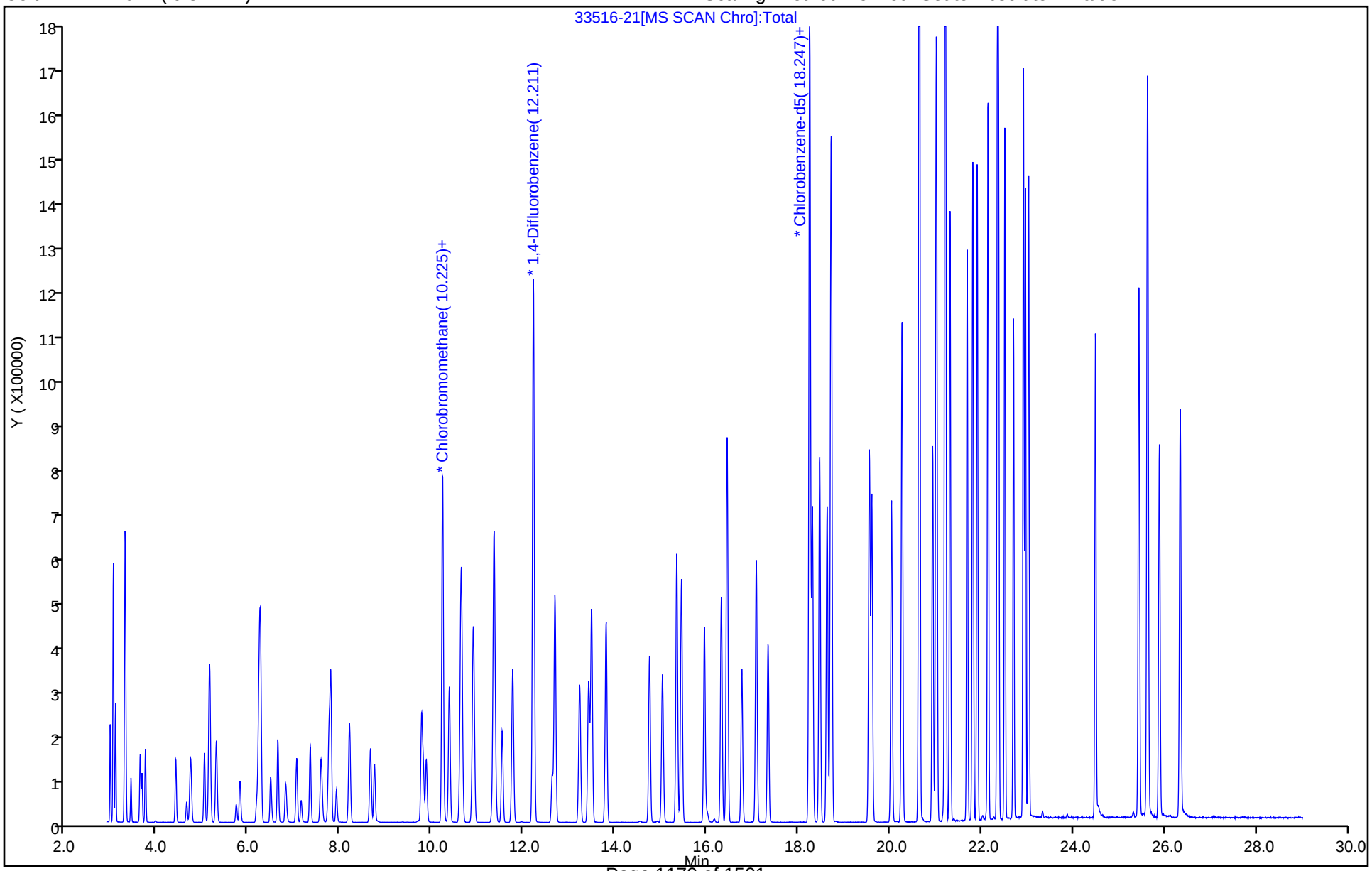
Report Date: 06-Dec-2018 10:35:39 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-21.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 11:56:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | icv | | | Worklist Smp#: | 21 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 20 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137900/3 Calibration Date: 12/07/2018 12:44

Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/05/2018 09:17

Lab File ID: 33574-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.3986 | 0.4250 | | 10.7 | 10.0 | 6.6 | 30.0 |
| Dichlorodifluoromethane | Ave | 1.959 | 1.985 | | 10.1 | 10.0 | 1.4 | 30.0 |
| Chlorodifluoromethane | Ave | 0.9872 | 1.105 | | 11.2 | 10.0 | 11.9 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 1.533 | 1.735 | | 11.3 | 10.0 | 13.2 | 30.0 |
| Chloromethane | Ave | 0.3700 | 0.3956 | | 10.7 | 10.0 | 6.9 | 30.0 |
| n-Butane | Ave | 0.5525 | 0.6051 | | 11.0 | 10.0 | 9.5 | 30.0 |
| Vinyl chloride | Ave | 0.4247 | 0.4426 | | 10.4 | 10.0 | 4.2 | 30.0 |
| 1,3-Butadiene | Ave | 0.2826 | 0.3075 | | 10.9 | 10.0 | 8.8 | 30.0 |
| Bromomethane | Ave | 0.3818 | 0.4128 | | 10.8 | 10.0 | 8.1 | 30.0 |
| Chloroethane | Ave | 0.1626 | 0.1783 | | 11.0 | 10.0 | 9.6 | 30.0 |
| Isopentane | Ave | 0.3215 | 0.3597 | | 11.2 | 10.0 | 11.9 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.4632 | 0.5267 | | 11.4 | 10.0 | 13.7 | 30.0 |
| Trichlorofluoromethane | Ave | 1.807 | 1.946 | | 10.8 | 10.0 | 7.6 | 30.0 |
| n-Pentane | Ave | 0.6539 | 0.7223 | | 11.0 | 10.0 | 10.5 | 30.0 |
| Ethanol | Ave | 0.1517 | 0.1676 | | 16.6 | 15.0 | 10.5 | 30.0 |
| Ethyl ether | Ave | 0.2870 | 0.3283 | | 11.4 | 10.0 | 14.4 | 30.0 |
| Acrolein | Ave | 0.1328 | 0.1490 | | 11.2 | 10.0 | 12.2 | 30.0 |
| 1,1,2-Trichlorotrifluoroethane | Ave | 1.179 | 1.080 | | 9.16 | 10.0 | -8.4 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.4775 | 0.4407 | | 9.23 | 10.0 | -7.7 | 30.0 |
| Acetone | Ave | 0.7942 | 0.7823 | | 9.85 | 10.0 | -1.5 | 30.0 |
| Carbon disulfide | Ave | 1.318 | 1.333 | | 10.1 | 10.0 | 1.2 | 30.0 |
| Isopropyl alcohol | Ave | 0.6986 | 0.6354 | | 9.09 | 10.0 | -9.0 | 30.0 |
| 3-Chloropropene | Ave | 0.4710 | 0.4403 | | 9.35 | 10.0 | -6.5 | 30.0 |
| Acetonitrile | Ave | 0.2466 | 0.2646 | | 10.7 | 10.0 | 7.3 | 30.0 |
| Methylene Chloride | Ave | 0.5431 | 0.4885 | | 8.99 | 10.0 | -10.0 | 30.0 |
| tert-Butyl alcohol | Ave | 1.056 | 1.087 | | 10.3 | 10.0 | 3.0 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.570 | 1.537 | | 9.79 | 10.0 | -2.1 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 0.7089 | 0.7638 | | 10.8 | 10.0 | 7.7 | 30.0 |
| Acrylonitrile | Ave | 0.2644 | 0.2781 | | 10.5 | 10.0 | 5.2 | 30.0 |
| n-Hexane | Ave | 0.6203 | 0.6259 | | 10.1 | 10.0 | 0.9 | 30.0 |
| 1,1-Dichloroethane | Ave | 0.9177 | 0.8829 | | 9.62 | 10.0 | -3.8 | 30.0 |
| Vinyl acetate | Ave | 1.111 | 1.139 | | 10.3 | 10.0 | 2.6 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.5466 | 0.5245 | | 9.59 | 10.0 | -4.0 | 30.0 |
| Methyl Ethyl Ketone (2-Butanone) | Ave | 0.2302 | 0.2307 | | 10.0 | 10.0 | 0.2 | 30.0 |
| Ethyl acetate | Ave | 0.0440 | 0.0426 | | 9.66 | 10.0 | -3.4 | 30.0 |
| Tetrahydrofuran | Ave | 0.0785 | 0.0802 | | 10.2 | 10.0 | 2.1 | 30.0 |
| Chloroform | Ave | 1.313 | 1.371 | | 10.4 | 10.0 | 4.4 | 30.0 |
| Cyclohexane | Ave | 0.1265 | 0.1222 | | 9.66 | 10.0 | -3.4 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.3037 | 0.2901 | | 9.55 | 10.0 | -4.5 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137900/3 Calibration Date: 12/07/2018 12:44

Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/05/2018 09:17

Lab File ID: 33574-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | Ave | 0.3279 | 0.3212 | | 9.79 | 10.0 | -2.0 | 30.0 |
| 2,2,4-Trimethylpentane | Ave | 0.4437 | 0.4307 | | 9.70 | 10.0 | -2.9 | 30.0 |
| Benzene | Ave | 0.3141 | 0.2930 | | 9.32 | 10.0 | -6.7 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.2032 | 0.2023 | | 9.95 | 10.0 | -0.5 | 30.0 |
| n-Heptane | Ave | 0.1609 | 0.1580 | | 9.82 | 10.0 | -1.8 | 30.0 |
| n-Butanol | Ave | 0.0614 | 0.0673 | | 11.0 | 10.0 | 9.5 | 30.0 |
| Trichloroethene | Ave | 0.1721 | 0.1828 | | 10.6 | 10.0 | 6.2 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.1221 | 0.1212 | | 9.93 | 10.0 | -0.7 | 30.0 |
| Methyl methacrylate | Ave | 0.1267 | 0.1275 | | 10.1 | 10.0 | 0.7 | 30.0 |
| 1,4-Dioxane | Ave | 0.0767 | 0.0743 | | 9.68 | 10.0 | -3.1 | 30.0 |
| Dibromomethane | Ave | 0.1941 | 0.1890 | | 9.74 | 10.0 | -2.6 | 30.0 |
| Bromodichloromethane | Ave | 0.3270 | 0.3296 | | 10.1 | 10.0 | 0.8 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.2385 | 0.2238 | | 9.38 | 10.0 | -6.2 | 30.0 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave | 0.2579 | 0.2464 | | 9.55 | 10.0 | -4.5 | 30.0 |
| Toluene | Ave | 0.2747 | 0.2673 | | 9.73 | 10.0 | -2.7 | 30.0 |
| n-Octane | Ave | 0.2542 | 0.2475 | | 9.73 | 10.0 | -2.6 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.2450 | 0.2528 | | 10.3 | 10.0 | 3.2 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.1329 | 0.1308 | | 9.84 | 10.0 | -1.6 | 30.0 |
| Tetrachloroethene | Ave | 0.2774 | 0.2656 | | 9.57 | 10.0 | -4.3 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.2497 | 0.2418 | | 9.68 | 10.0 | -3.1 | 30.0 |
| Dibromochloromethane | Ave | 0.3169 | 0.3193 | | 10.1 | 10.0 | 0.8 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.2651 | 0.2700 | | 10.2 | 10.0 | 1.8 | 30.0 |
| Chlorobenzene | Ave | 0.3827 | 0.3769 | | 9.85 | 10.0 | -1.5 | 30.0 |
| Ethylbenzene | Ave | 0.6400 | 0.6326 | | 9.88 | 10.0 | -1.2 | 30.0 |
| n-Nonane | Ave | 0.2581 | 0.2570 | | 9.96 | 10.0 | -0.4 | 30.0 |
| m,p-Xylene | Ave | 0.2354 | 0.2357 | | 20.0 | 20.0 | 0.1 | 30.0 |
| o-Xylene | Ave | 0.2305 | 0.2350 | | 10.2 | 10.0 | 2.0 | 30.0 |
| Styrene | Ave | 0.3558 | 0.3683 | | 10.3 | 10.0 | 3.5 | 30.0 |
| Bromoform | Ave | 0.2871 | 0.2953 | | 10.3 | 10.0 | 2.8 | 30.0 |
| Cumene | Ave | 0.7356 | 0.7372 | | 10.0 | 10.0 | 0.2 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.3411 | 0.3377 | | 9.90 | 10.0 | -1.0 | 30.0 |
| n-Propylbenzene | Ave | 0.8615 | 0.8652 | | 10.0 | 10.0 | 0.4 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.2950 | 0.2857 | | 9.68 | 10.0 | -3.1 | 30.0 |
| 4-Ethyltoluene | Ave | 0.7192 | 0.7366 | | 10.2 | 10.0 | 2.4 | 30.0 |
| 2-Chlorotoluene | Ave | 0.6244 | 0.6251 | | 10.0 | 10.0 | 0.1 | 30.0 |
| n-Decane | Ave | 0.3232 | 0.3181 | | 9.84 | 10.0 | -1.6 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.6484 | 0.6553 | | 10.1 | 10.0 | 1.1 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.2952 | 0.3036 | | 10.3 | 10.0 | 2.8 | 30.0 |
| tert-Butylbenzene | Ave | 0.6169 | 0.6056 | | 9.81 | 10.0 | -1.8 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.6499 | 0.6533 | | 10.0 | 10.0 | 0.5 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137900/3 Calibration Date: 12/07/2018 12:44

Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/05/2018 09:17

Lab File ID: 33574-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | Ave | 0.8947 | 0.8850 | | 9.89 | 10.0 | -1.1 | 30.0 |
| 4-Isopropyltoluene | Ave | 0.7850 | 0.7798 | | 9.93 | 10.0 | -0.7 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.4395 | 0.4426 | | 10.1 | 10.0 | 0.7 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.4460 | 0.4557 | | 10.2 | 10.0 | 2.2 | 30.0 |
| Benzyl chloride | Ave | 0.6101 | 0.5949 | | 9.75 | 10.0 | -2.5 | 30.0 |
| n-Butylbenzene | Ave | 0.7164 | 0.7133 | | 9.95 | 10.0 | -0.4 | 30.0 |
| n-Undecane | Ave | 0.3478 | 0.3701 | | 10.6 | 10.0 | 6.4 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.4272 | 0.4263 | | 9.98 | 10.0 | -0.2 | 30.0 |
| n-Dodecane | Ave | 0.3349 | 0.3434 | | 10.3 | 10.0 | 2.5 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3845 | 0.3606 | | 9.38 | 10.0 | -6.2 | 30.0 |
| Hexachlorobutadiene | Ave | 0.3598 | 0.3444 | | 9.57 | 10.0 | -4.3 | 30.0 |
| Naphthalene | Ave | 0.7587 | 0.6683 | | 8.81 | 10.0 | -11.9 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3568 | 0.3099 | | 8.68 | 10.0 | -13.1 | 30.0 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-03.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Dec-2018 12:44:30 ALS Bottle#: 7 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033574-003
Misc. Info.: lcs
Operator ID: ggg Instrument ID: CHC.i
Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: phamvu Date: 10-Dec-2018 17:24:16

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.962 | 2.962 | 0.000 | 93 | 75309 | 10.0 | 10.7 | |
| 2 Dichlorodifluoromethane | 85 | 3.031 | 3.031 | 0.000 | 99 | 351841 | 10.0 | 10.1 | |
| 3 Chlorodifluoromethane | 51 | 3.079 | 3.079 | 0.000 | 98 | 195802 | 10.0 | 11.2 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.287 | 3.287 | 0.000 | 93 | 307469 | 10.0 | 11.3 | |
| 5 Chloromethane | 50 | 3.416 | 3.416 | 0.000 | 99 | 70097 | 10.0 | 10.7 | |
| 6 Butane | 43 | 3.618 | 3.618 | 0.000 | 92 | 107238 | 10.0 | 11.0 | |
| 7 Vinyl chloride | 62 | 3.656 | 3.656 | 0.000 | 100 | 78438 | 10.0 | 10.4 | |
| 8 Butadiene | 54 | 3.730 | 3.730 | 0.000 | 94 | 54485 | 10.0 | 10.9 | |
| 10 Bromomethane | 94 | 4.398 | 4.398 | 0.000 | 97 | 73146 | 10.0 | 10.8 | |
| 11 Chloroethane | 64 | 4.632 | 4.632 | 0.000 | 97 | 31600 | 10.0 | 11.0 | |
| 12 2-Methylbutane | 43 | 4.718 | 4.718 | 0.000 | 84 | 63736 | 10.0 | 11.2 | |
| 9 BFB | | | | | | | | | |
| 13 Vinyl bromide | 106 | 5.022 | 5.022 | 0.000 | 97 | 93341 | 10.0 | 11.4 | |
| 14 Trichlorofluoromethane | 101 | 5.134 | 5.134 | 0.000 | 100 | 344776 | 10.0 | 10.8 | |
| 16 Pentane | 43 | 5.283 | 5.283 | 0.000 | 95 | 127999 | 10.0 | 11.0 | |
| 17 Ethanol | 45 | 5.710 | 5.710 | 0.000 | 97 | 44581 | 15.0 | 16.6 | |
| 18 Ethyl ether | 59 | 5.796 | 5.796 | 0.000 | 97 | 58181 | 10.0 | 11.4 | |
| 19 Acrolein | 56 | 6.159 | 6.159 | 0.000 | 98 | 26395 | 10.0 | 11.2 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223 | 6.223 | 0.000 | 96 | 191388 | 10.0 | 9.16 | |
| 21 1,1-Dichloroethene | 96 | 6.244 | 6.244 | 0.000 | 94 | 78094 | 10.0 | 9.23 | |
| 22 Acetone | 43 | 6.468 | 6.468 | 0.000 | 100 | 138636 | 10.0 | 9.85 | |
| 23 Carbon disulfide | 76 | 6.628 | 6.628 | 0.000 | 99 | 236250 | 10.0 | 10.1 | |
| 24 Isopropyl alcohol | 45 | 6.788 | 6.788 | 0.000 | 98 | 112591 | 10.0 | 9.09 | |
| 25 3-Chloro-1-propene | 41 | 7.039 | 7.039 | 0.000 | 87 | 78028 | 10.0 | 9.35 | |
| 26 Acetonitrile | 41 | 7.135 | 7.135 | 0.000 | 98 | 46882 | 10.0 | 10.7 | |
| 27 Methylene Chloride | 49 | 7.333 | 7.333 | 0.000 | 93 | 86564 | 10.0 | 8.99 | |
| 28 2-Methyl-2-propanol | 59 | 7.568 | 7.568 | 0.000 | 96 | 192705 | 10.0 | 10.3 | |
| 29 Methyl tert-butyl ether | 73 | 7.749 | 7.749 | 0.000 | 94 | 272429 | 10.0 | 9.79 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.781 | 7.781 | 0.000 | 95 | 135345 | 10.0 | 10.8 | |
| 32 Acrylonitrile | 53 | 7.904 | 7.904 | 0.000 | 92 | 49283 | 10.0 | 10.5 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 33 Hexane | 57 | 8.192 | 8.192 | 0.000 | 85 | 110923 | 10.0 | 10.1 | |
| 34 1,1-Dichloroethane | 63 | 8.646 | 8.646 | 0.000 | 98 | 156450 | 10.0 | 9.62 | |
| 35 Vinyl acetate | 43 | 8.736 | 8.736 | 0.000 | 99 | 201907 | 10.0 | 10.3 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.766 | 9.766 | 0.000 | 96 | 92941 | 10.0 | 9.59 | |
| 38 2-Butanone (MEK) | 72 | 9.804 | 9.804 | 0.000 | 100 | 40886 | 10.0 | 10.0 | |
| 39 Ethyl acetate | 88 | 9.863 | 9.863 | 0.000 | 99 | 7540 | 10.0 | 9.66 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 20.4 | |
| * 40 Chlorobromomethane | 128 | 10.225 | 10.225 | 0.000 | 81 | 177245 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.231 | 10.231 | 0.000 | 83 | 81124 | 10.0 | 10.2 | |
| 42 Chloroform | 83 | 10.370 | 10.370 | 0.000 | 97 | 243041 | 10.0 | 10.4 | |
| 43 Cyclohexane | 84 | 10.620 | 10.620 | 0.000 | 92 | 123685 | 10.0 | 9.66 | |
| 44 1,1,1-Trichloroethane | 97 | 10.642 | 10.642 | 0.000 | 95 | 293590 | 10.0 | 9.55 | |
| 45 Carbon tetrachloride | 117 | 10.898 | 10.898 | 0.000 | 98 | 325070 | 10.0 | 9.79 | |
| 46 Isooctane | 57 | 11.346 | 11.346 | 0.000 | 95 | 435898 | 10.0 | 9.70 | |
| 47 Benzene | 78 | 11.346 | 11.346 | 0.000 | 98 | 296501 | 10.0 | 9.32 | |
| 48 1,2-Dichloroethane | 62 | 11.528 | 11.528 | 0.000 | 99 | 204739 | 10.0 | 9.95 | |
| 49 n-Heptane | 43 | 11.752 | 11.752 | 0.000 | 87 | 159903 | 10.0 | 9.82 | |
| * 50 1,4-Difluorobenzene | 114 | 12.205 | 12.205 | 0.000 | 95 | 1012310 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.616 | 12.616 | 0.000 | 91 | 68088 | 10.0 | 11.0 | |
| 53 Trichloroethene | 95 | 12.675 | 12.675 | 0.000 | 96 | 184973 | 10.0 | 10.6 | |
| A 51 GRO | 1 | 12.966 | (4.708-21.224) | | 0 | 57901140 | 10.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.219 | 13.219 | 0.000 | 81 | 122650 | 10.0 | 9.93 | |
| 55 Methyl methacrylate | 69 | 13.417 | 13.417 | 0.000 | 92 | 129053 | 10.0 | 10.1 | |
| 56 1,4-Dioxane | 88 | 13.449 | 13.449 | 0.000 | 93 | 75171 | 10.0 | 9.68 | |
| 57 Dibromomethane | 174 | 13.481 | 13.481 | 0.000 | 93 | 191283 | 10.0 | 9.74 | |
| 58 Dichlorobromomethane | 83 | 13.796 | 13.796 | 0.000 | 98 | 333548 | 10.0 | 10.1 | |
| A 59 TVOC as Toluene | 1 | 14.650 | (2.952-26.348) | | 0 | 94864070 | 10.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.746 | 14.746 | 0.000 | 98 | 226457 | 10.0 | 9.38 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.023 | 15.023 | 0.000 | 95 | 249374 | 10.0 | 9.55 | |
| 65 Toluene | 92 | 15.338 | 15.338 | 0.000 | 93 | 278844 | 10.0 | 9.73 | |
| 64 n-Octane | 43 | 15.440 | 15.440 | 0.000 | 82 | 250463 | 10.0 | 9.73 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.941 | 15.941 | 0.000 | 97 | 255875 | 10.0 | 10.3 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 97 | 136439 | 10.0 | 9.84 | |
| 68 Tetrachloroethene | 166 | 16.438 | 16.438 | 0.000 | 95 | 277022 | 10.0 | 9.57 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 96 | 252215 | 10.0 | 9.68 | |
| 71 Chlorodibromomethane | 129 | 17.078 | 17.078 | 0.000 | 97 | 333046 | 10.0 | 10.1 | |
| 72 Ethylene Dibromide | 107 | 17.334 | 17.334 | 0.000 | 98 | 281613 | 10.0 | 10.2 | |
| * 74 Chlorobenzene-d5 | 117 | 18.241 | 18.241 | 0.000 | 90 | 1043244 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.300 | 18.300 | 0.000 | 92 | 393105 | 10.0 | 9.85 | |
| 76 Ethylbenzene | 91 | 18.460 | 18.460 | 0.000 | 99 | 659771 | 10.0 | 9.88 | |
| 77 n-Nonane | 57 | 18.626 | 18.626 | 0.000 | 80 | 268042 | 10.0 | 9.96 | |
| 78 m-Xylene & p-Xylene | 106 | 18.711 | 18.711 | 0.000 | 0 | 491678 | 20.0 | 20.0 | |
| 79 o-Xylene | 106 | 19.549 | 19.549 | 0.000 | 98 | 245096 | 10.0 | 10.2 | |
| 80 Styrene | 104 | 19.602 | 19.602 | 0.000 | 99 | 384134 | 10.0 | 10.3 | |
| 81 Bromoform | 173 | 20.035 | 20.035 | 0.000 | 96 | 307983 | 10.0 | 10.3 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 30.2 | |
| 82 Isopropylbenzene | 105 | 20.259 | 20.259 | 0.000 | 97 | 768918 | 10.0 | 10.0 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.926 | 20.926 | 0.000 | 98 | 352230 | 10.0 | 9.90 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 98 | 902409 | 10.0 | 10.0 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 96 | 298034 | 10.0 | 9.68 | |
| 88 4-Ethyltoluene | 105 | 21.198 | 21.198 | 0.000 | 98 | 768312 | 10.0 | 10.2 | |
| 89 2-Chlorotoluene | 91 | 21.203 | 21.203 | 0.000 | 95 | 651997 | 10.0 | 10.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 97 | 331763 | 10.0 | 9.84 | |
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 91 | 683454 | 10.0 | 10.1 | |
| 91 Alpha Methyl Styrene | 118 | 21.684 | 21.684 | 0.000 | 87 | 316679 | 10.0 | 10.3 | |
| 92 tert-Butylbenzene | 119 | 21.807 | 21.807 | 0.000 | 92 | 631653 | 10.0 | 9.81 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.903 | 21.903 | 0.000 | 98 | 681382 | 10.0 | 10.0 | |
| 94 sec-Butylbenzene | 105 | 22.137 | 22.137 | 0.000 | 98 | 923125 | 10.0 | 9.89 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 96 | 813325 | 10.0 | 9.93 | |
| 96 1,3-Dichlorobenzene | 146 | 22.372 | 22.372 | 0.000 | 99 | 461677 | 10.0 | 10.1 | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 93 | 475305 | 10.0 | 10.2 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 97 | 620524 | 10.0 | 9.75 | |
| 100 n-Butylbenzene | 91 | 22.911 | 22.911 | 0.000 | 98 | 744021 | 10.0 | 9.95 | |
| 99 Undecane | 57 | 22.954 | 22.954 | 0.000 | 91 | 386076 | 10.0 | 10.6 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 94 | 444612 | 10.0 | 9.98 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 94 | 358154 | 10.0 | 10.3 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 95 | 376091 | 10.0 | 9.38 | |
| 104 Hexachlorobutadiene | 225 | 25.628 | 25.628 | 0.000 | 97 | 359184 | 10.0 | 9.57 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 697027 | 10.0 | 8.81 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.338 | 26.338 | 0.000 | 95 | 323212 | 10.0 | 8.68 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL4w_00715 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

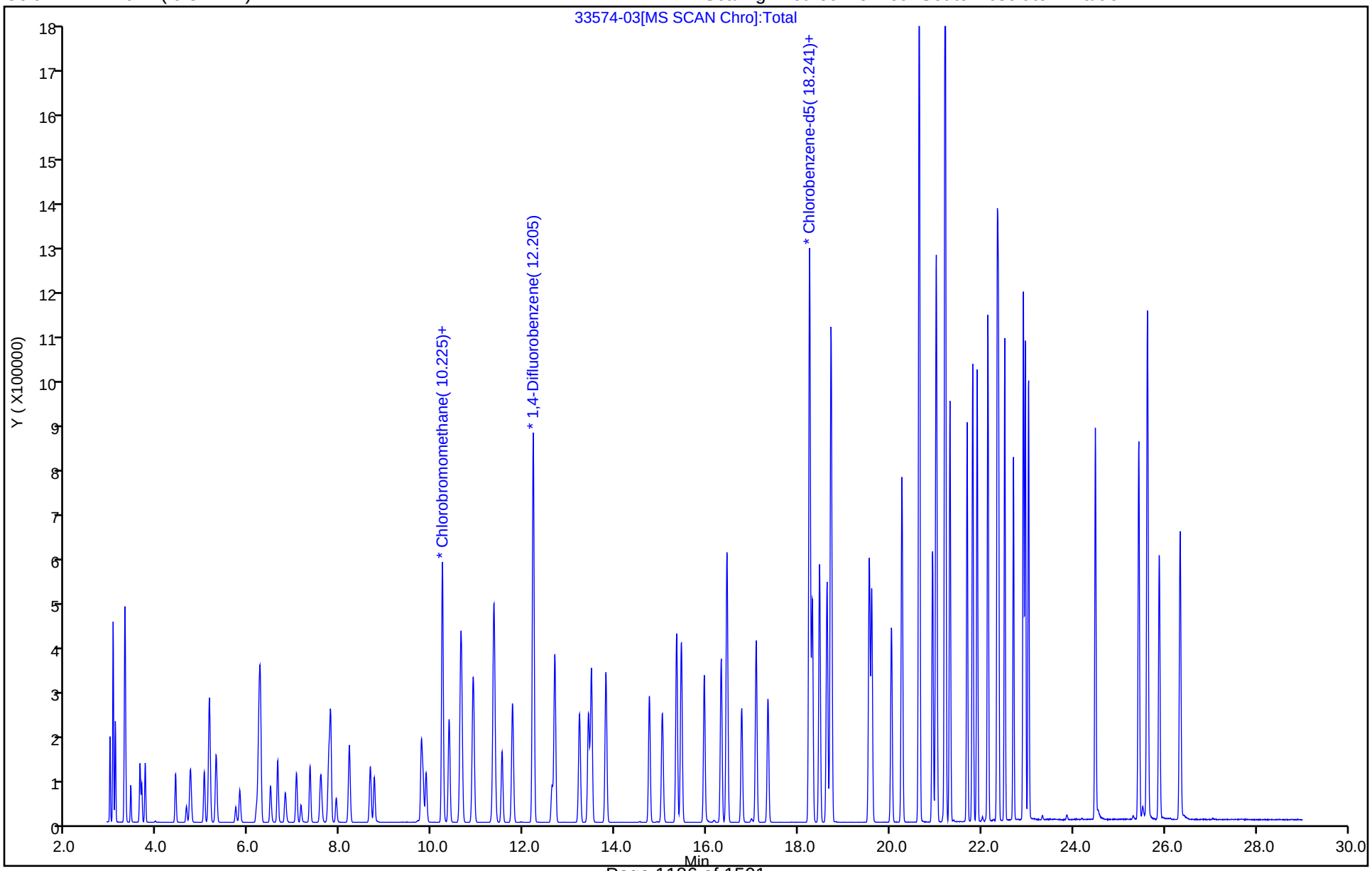
Report Date: 10-Dec-2018 17:27:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-03.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 12:44:30 | Instrument ID: | CHC.i | Operator ID: | ggg |
| Lims ID: | ccvis | | | Worklist Smp#: | 3 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 7 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: ICV 200-137447/15 Calibration Date: 11/28/2018 05:37

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33385-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.6903 | 0.6284 | | 9.10 | 10.0 | -9.0 | 30.0 |
| Dichlorodifluoromethane | Ave | 3.731 | 3.624 | | 9.71 | 10.0 | -2.9 | 30.0 |
| Chlorodifluoromethane | Ave | 1.588 | 1.434 | | 9.03 | 10.0 | -9.7 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 2.808 | 2.919 | | 10.4 | 10.0 | 4.0 | 30.0 |
| Chloromethane | Ave | 0.7259 | 0.6612 | | 9.11 | 10.0 | -8.9 | 30.0 |
| n-Butane | Ave | 0.9772 | 0.9149 | | 9.36 | 10.0 | -6.4 | 30.0 |
| Vinyl chloride | Ave | 0.8738 | 0.7939 | | 9.08 | 10.0 | -9.1 | 30.0 |
| 1,3-Butadiene | Ave | 0.5437 | 0.5157 | | 9.48 | 10.0 | -5.1 | 30.0 |
| Bromomethane | Ave | 1.009 | 0.9894 | | 9.81 | 10.0 | -1.9 | 30.0 |
| Chloroethane | Ave | 0.3363 | 0.3254 | | 9.68 | 10.0 | -3.2 | 30.0 |
| Isopentane | Ave | 0.6451 | 0.6234 | | 9.66 | 10.0 | -3.4 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.997 | 1.039 | | 10.4 | 10.0 | 4.2 | 30.0 |
| Trichlorofluoromethane | Ave | 2.948 | 2.927 | | 9.93 | 10.0 | -0.7 | 30.0 |
| n-Pentane | Ave | 0.9764 | 0.9287 | | 9.51 | 10.0 | -4.9 | 30.0 |
| Ethanol | Ave | 0.2022 | 0.2214 | | 16.4 | 15.0 | 9.5 | 30.0 |
| Ethyl ether | Ave | 0.3425 | 0.3951 | | 11.5 | 10.0 | 15.4 | 30.0 |
| Acrolein | Ave | 0.1311 | 0.1628 | | 12.4 | 10.0 | 24.2 | 30.0 |
| 1,1,2-Trichlorotrifluoroethane | Ave | 2.077 | 1.835 | | 8.83 | 10.0 | -11.6 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.9142 | 0.7882 | | 8.62 | 10.0 | -13.8 | 30.0 |
| Acetone | Ave | 0.7785 | 0.8177 | | 10.5 | 10.0 | 5.0 | 30.0 |
| Carbon disulfide | Ave | 2.351 | 2.273 | | 9.66 | 10.0 | -3.4 | 30.0 |
| Isopropyl alcohol | Ave | 0.8603 | 0.7493 | | 8.71 | 10.0 | -12.9 | 30.0 |
| 3-Chloropropene | Ave | 0.6801 | 0.5886 | | 8.65 | 10.0 | -13.5 | 30.0 |
| Acetonitrile | Ave | 0.2847 | 0.3231 | | 11.3 | 10.0 | 13.5 | 30.0 |
| Methylene Chloride | Ave | 0.8250 | 0.7198 | | 8.72 | 10.0 | -12.8 | 30.0 |
| tert-Butyl alcohol | Ave | 1.315 | 1.255 | | 9.54 | 10.0 | -4.6 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.777 | 1.792 | | 10.1 | 10.0 | 0.8 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 1.108 | 1.052 | | 9.50 | 10.0 | -5.0 | 30.0 |
| Acrylonitrile | Ave | 0.3108 | 0.3429 | | 11.0 | 10.0 | 10.3 | 30.0 |
| n-Hexane | Ave | 0.8829 | 0.8836 | | 10.0 | 10.0 | 0.0 | 30.0 |
| 1,1-Dichloroethane | Ave | 1.429 | 1.343 | | 9.39 | 10.0 | -6.1 | 30.0 |
| Vinyl acetate | Ave | 1.081 | 1.232 | | 11.4 | 10.0 | 14.0 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.8660 | 0.8634 | | 9.97 | 10.0 | -0.3 | 30.0 |
| Methyl Ethyl Ketone (2-Butanone) | Ave | 0.2794 | 0.2674 | | 9.57 | 10.0 | -4.3 | 30.0 |
| Ethyl acetate | Ave | 0.0398 | 0.0393 | | 9.86 | 10.0 | -1.4 | 30.0 |
| Tetrahydrofuran | Ave | 0.1141 | 0.1166 | | 10.2 | 10.0 | 2.2 | 30.0 |
| Chloroform | Ave | 2.089 | 2.014 | | 9.64 | 10.0 | -3.6 | 30.0 |
| Cyclohexane | Ave | 0.2295 | 0.2171 | | 9.46 | 10.0 | -5.4 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.5556 | 0.5220 | | 9.39 | 10.0 | -6.1 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: ICV 200-137447/15 Calibration Date: 11/28/2018 05:37

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33385-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | Ave | 0.5937 | 0.5906 | | 9.95 | 10.0 | -0.5 | 30.0 |
| 2,2,4-Trimethylpentane | Ave | 0.7593 | 0.7298 | | 9.61 | 10.0 | -3.9 | 30.0 |
| Benzene | Ave | 0.5325 | 0.5164 | | 9.70 | 10.0 | -3.0 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.3080 | 0.2950 | | 9.58 | 10.0 | -4.2 | 30.0 |
| n-Heptane | Ave | 0.2740 | 0.2587 | | 9.44 | 10.0 | -5.6 | 30.0 |
| n-Butanol | Ave | 0.0901 | 0.0925 | | 10.3 | 10.0 | 2.7 | 30.0 |
| Trichloroethene | Ave | 0.3485 | 0.3273 | | 9.39 | 10.0 | -6.1 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.1877 | 0.1920 | | 10.2 | 10.0 | 2.3 | 30.0 |
| Methyl methacrylate | Ave | 0.1550 | 0.1640 | | 10.6 | 10.0 | 5.8 | 30.0 |
| Dibromomethane | Ave | 0.3211 | 0.3182 | | 9.91 | 10.0 | -0.9 | 30.0 |
| 1,4-Dioxane | Ave | 0.0979 | 0.0868 | | 8.86 | 10.0 | -11.3 | 30.0 |
| Bromodichloromethane | Ave | 0.5411 | 0.5668 | | 10.5 | 10.0 | 4.7 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.3350 | 0.3364 | | 10.0 | 10.0 | 0.4 | 30.0 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave | 0.3463 | 0.3292 | | 9.50 | 10.0 | -4.9 | 30.0 |
| Toluene | Ave | 0.4051 | 0.4490 | | 11.1 | 10.0 | 10.8 | 30.0 |
| n-Octane | Ave | 0.4030 | 0.3971 | | 9.85 | 10.0 | -1.5 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.3295 | 0.3651 | | 11.1 | 10.0 | 10.8 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.2192 | 0.2430 | | 11.1 | 10.0 | 10.9 | 30.0 |
| Tetrachloroethene | Ave | 0.4850 | 0.5253 | | 10.8 | 10.0 | 8.3 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.3560 | 0.3660 | | 10.3 | 10.0 | 2.8 | 30.0 |
| Dibromochloromethane | Ave | 0.5859 | 0.6428 | | 11.0 | 10.0 | 9.7 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.4426 | 0.5030 | | 11.4 | 10.0 | 13.6 | 30.0 |
| Chlorobenzene | Ave | 0.6231 | 0.6847 | | 11.0 | 10.0 | 9.9 | 30.0 |
| Ethylbenzene | Ave | 0.9122 | 0.9854 | | 10.8 | 10.0 | 8.0 | 30.0 |
| n-Nonane | Ave | 0.3988 | 0.4104 | | 10.3 | 10.0 | 2.9 | 30.0 |
| m,p-Xylene | Ave | 0.3698 | 0.4008 | | 21.7 | 20.0 | 8.4 | 30.0 |
| o-Xylene | Ave | 0.3514 | 0.3846 | | 10.9 | 10.0 | 9.5 | 30.0 |
| Styrene | Ave | 0.5379 | 0.5942 | | 11.0 | 10.0 | 10.5 | 30.0 |
| Bromoform | Ave | 0.5301 | 0.6198 | | 11.7 | 10.0 | 16.9 | 30.0 |
| Cumene | Ave | 1.028 | 1.114 | | 10.8 | 10.0 | 8.5 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5606 | 0.6003 | | 10.7 | 10.0 | 7.1 | 30.0 |
| n-Propylbenzene | Ave | 1.224 | 1.324 | | 10.8 | 10.0 | 8.2 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.4759 | 0.4599 | | 9.66 | 10.0 | -3.4 | 30.0 |
| 2-Chlorotoluene | Ave | 0.9241 | 0.9799 | | 10.6 | 10.0 | 6.0 | 30.0 |
| 4-Ethyltoluene | Ave | 1.042 | 1.154 | | 11.1 | 10.0 | 10.8 | 30.0 |
| n-Decane | Ave | 0.4933 | 0.4849 | | 9.83 | 10.0 | -1.7 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.8912 | 0.9530 | | 10.7 | 10.0 | 6.9 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.4187 | 0.4833 | | 11.5 | 10.0 | 15.4 | 30.0 |
| tert-Butylbenzene | Ave | 0.8336 | 0.8924 | | 10.7 | 10.0 | 7.1 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.8792 | 0.9515 | | 10.8 | 10.0 | 8.2 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: ICV 200-137447/15 Calibration Date: 11/28/2018 05:37

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33385-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | Ave | 1.236 | 1.319 | | 10.7 | 10.0 | 6.7 | 30.0 |
| 4-Isopropyltoluene | Ave | 1.059 | 1.142 | | 10.8 | 10.0 | 7.8 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.7126 | 0.7658 | | 10.7 | 10.0 | 7.5 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.6814 | 0.7446 | | 10.9 | 10.0 | 9.3 | 30.0 |
| Benzyl chloride | Ave | 0.8411 | 0.8499 | | 10.1 | 10.0 | 1.0 | 30.0 |
| n-Butylbenzene | Ave | 0.9659 | 1.021 | | 10.6 | 10.0 | 5.7 | 30.0 |
| n-Undecane | Ave | 0.5433 | 0.5238 | | 9.64 | 10.0 | -3.6 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.6549 | 0.6972 | | 10.6 | 10.0 | 6.5 | 30.0 |
| n-Dodecane | Ave | 0.4351 | 0.3941 | | 9.06 | 10.0 | -9.4 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.4922 | 0.4673 | | 9.49 | 10.0 | -5.1 | 30.0 |
| Hexachlorobutadiene | Ave | 0.4897 | 0.4519 | | 9.23 | 10.0 | -7.7 | 30.0 |
| Naphthalene | Ave | 0.9543 | 0.8724 | | 9.14 | 10.0 | -8.6 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.4252 | 0.3651 | | 8.58 | 10.0 | -14.1 | 30.0 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-015.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 28-Nov-2018 05:37:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-015
Operator ID: vtp Instrument ID: CHG.i
Sublist:

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 12:18:25 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

First Level Reviewer: mickd Date: 28-Nov-2018 10:45:14

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 98 | 710648 | 10.0 | 9.10 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 4098267 | 10.0 | 9.71 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 96 | 1621514 | 10.0 | 9.03 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 97 | 3301694 | 10.0 | 10.4 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 747840 | 10.0 | 9.11 | |
| 6 Butane | 43 | 3.599 | 3.604 | -0.005 | 96 | 1034680 | 10.0 | 9.36 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 897927 | 10.0 | 9.08 | |
| 8 Butadiene | 54 | 3.690 | 3.689 | 0.001 | 93 | 583293 | 10.0 | 9.48 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 98 | 1119014 | 10.0 | 9.81 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 98 | 368066 | 10.0 | 9.68 | |
| 12 2-Methylbutane | 43 | 4.439 | 4.438 | 0.000 | 87 | 704999 | 10.0 | 9.66 | |
| 13 Vinyl bromide | 106 | 4.685 | 4.685 | 0.001 | 98 | 1175547 | 10.0 | 10.4 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 3310941 | 10.0 | 9.93 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 99 | 1050390 | 10.0 | 9.51 | |
| 17 Ethanol | 45 | 5.204 | 5.209 | -0.005 | 96 | 375711 | 15.0 | 16.4 | |
| 18 Ethyl ether | 59 | 5.273 | 5.278 | -0.005 | 97 | 446867 | 10.0 | 11.5 | |
| 19 Acrolein | 56 | 5.589 | 5.594 | -0.005 | 98 | 184157 | 10.0 | 12.4 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 97 | 2075125 | 10.0 | 8.83 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 97 | 891380 | 10.0 | 8.62 | |
| 9 BFB | | | | | | | | | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 924849 | 10.0 | 10.5 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.017 | 0.000 | 99 | 2570242 | 10.0 | 9.66 | |
| 24 Isopropyl alcohol | 45 | 6.092 | 6.097 | -0.005 | 100 | 847398 | 10.0 | 8.71 | |
| 25 3-Chloro-1-propene | 41 | 6.306 | 6.311 | -0.005 | 95 | 665694 | 10.0 | 8.65 | |
| 26 Acetonitrile | 41 | 6.418 | 6.423 | -0.005 | 98 | 365431 | 10.0 | 11.3 | |
| 27 Methylene Chloride | 49 | 6.552 | 6.557 | -0.005 | 87 | 814033 | 10.0 | 8.72 | |
| 28 2-Methyl-2-propanol | 59 | 6.766 | 6.771 | -0.005 | 93 | 1419338 | 10.0 | 9.54 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 95 | 2026780 | 10.0 | 10.1 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.948 | 6.947 | 0.001 | 93 | 1189824 | 10.0 | 9.50 | |
| 32 Acrylonitrile | 53 | 7.076 | 7.076 | 0.000 | 93 | 387798 | 10.0 | 11.0 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 90 | 999333 | 10.0 | 10.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 7.729 | 7.728 | 0.001 | 99 | 1518347 | 10.0 | 9.39 | |
| 35 Vinyl acetate | 43 | 7.787 | 7.793 | -0.006 | 100 | 1393877 | 10.0 | 11.4 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.734 | 8.734 | 0.000 | 89 | 976496 | 10.0 | 9.97 | |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.793 | 0.000 | 100 | 302422 | 10.0 | 9.57 | |
| 39 Ethyl acetate | 88 | 8.831 | 8.831 | 0.000 | 99 | 44400 | 10.0 | 9.86 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.162 | -0.005 | 74 | 1131202 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.210 | 9.210 | 0.000 | 84 | 583313 | 10.0 | 10.2 | |
| 42 Chloroform | 83 | 9.275 | 9.275 | 0.000 | 96 | 2278242 | 10.0 | 9.64 | |
| 43 Cyclohexane | 84 | 9.531 | 9.537 | -0.006 | 94 | 1086038 | 10.0 | 9.46 | |
| 44 1,1,1-Trichloroethane | 97 | 9.547 | 9.547 | 0.000 | 94 | 2611504 | 10.0 | 9.39 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 19.5 | |
| 45 Carbon tetrachloride | 117 | 9.788 | 9.788 | 0.000 | 98 | 2954887 | 10.0 | 9.95 | |
| 46 Isooctane | 57 | 10.200 | 10.205 | -0.005 | 98 | 3650917 | 10.0 | 9.61 | |
| 47 Benzene | 78 | 10.222 | 10.221 | 0.001 | 96 | 2583631 | 10.0 | 9.70 | |
| 48 1,2-Dichloroethane | 62 | 10.387 | 10.387 | 0.000 | 99 | 1475788 | 10.0 | 9.58 | |
| 49 n-Heptane | 43 | 10.569 | 10.575 | -0.006 | 91 | 1294162 | 10.0 | 9.44 | |
| * 50 1,4-Difluorobenzene | 114 | 11.024 | 11.024 | 0.000 | 93 | 5003919 | 10.0 | 10.0 | s |
| 52 n-Butanol | 56 | 11.463 | 11.463 | 0.000 | 89 | 462846 | 10.0 | 10.3 | |
| 53 Trichloroethene | 95 | 11.489 | 11.489 | 0.000 | 98 | 1637504 | 10.0 | 9.39 | |
| 54 1,2-Dichloropropane | 63 | 12.019 | 12.024 | -0.005 | 87 | 960686 | 10.0 | 10.2 | |
| 55 Methyl methacrylate | 69 | 12.212 | 12.217 | -0.005 | 95 | 820412 | 10.0 | 10.6 | |
| A 51 GRO | 1 | 12.262 | (4.428-20.096) | | 0 | 401338831 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.270 | 12.276 | -0.006 | 96 | 1592056 | 10.0 | 9.91 | |
| 56 1,4-Dioxane | 88 | 12.287 | 12.281 | 0.006 | 89 | 434179 | 10.0 | 8.86 | |
| 58 Dichlorobromomethane | 83 | 12.559 | 12.565 | -0.006 | 98 | 2835489 | 10.0 | 10.5 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.480 | 13.479 | 0.001 | 93 | 1683149 | 10.0 | 10.0 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.795 | 13.795 | 0.000 | 97 | 1646840 | 10.0 | 9.50 | |
| 65 Toluene | 92 | 14.068 | 14.068 | 0.000 | 94 | 2045090 | 10.0 | 11.1 | |
| 64 n-Octane | 43 | 14.154 | 14.153 | 0.001 | 89 | 1986722 | 10.0 | 9.85 | |
| A 59 TVOC as Toluene | 92 | 14.162 | (3.080-25.243) | | 0 | 628460887 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.662 | 14.662 | 0.000 | 96 | 1826785 | 10.0 | 11.1 | |
| 67 1,1,2-Trichloroethane | 83 | 15.026 | 15.031 | -0.005 | 97 | 1106796 | 10.0 | 11.1 | |
| 68 Tetrachloroethene | 166 | 15.149 | 15.143 | 0.006 | 96 | 2392435 | 10.0 | 10.8 | |
| 69 2-Hexanone | 43 | 15.512 | 15.518 | -0.006 | 95 | 1666997 | 10.0 | 10.3 | |
| 71 Chlorodibromomethane | 129 | 15.791 | 15.790 | 0.001 | 97 | 2927788 | 10.0 | 11.0 | |
| 72 Ethylene Dibromide | 107 | 16.053 | 16.053 | 0.000 | 99 | 2290903 | 10.0 | 11.4 | |
| * 74 Chlorobenzene-d5 | 117 | 16.962 | 16.962 | 0.000 | 84 | 4555708 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.026 | 17.026 | 0.000 | 96 | 3118734 | 10.0 | 11.0 | |
| 76 Ethylbenzene | 91 | 17.192 | 17.192 | 0.000 | 98 | 4488205 | 10.0 | 10.8 | |
| 77 n-Nonane | 57 | 17.358 | 17.358 | 0.000 | 86 | 1869303 | 10.0 | 10.3 | |
| 78 m-Xylene & p-Xylene | 106 | 17.449 | 17.449 | 0.000 | 0 | 3651373 | 20.0 | 21.7 | |
| 79 o-Xylene | 106 | 18.300 | 18.294 | 0.006 | 99 | 1751961 | 10.0 | 10.9 | |
| 80 Styrene | 104 | 18.348 | 18.348 | 0.000 | 98 | 2706341 | 10.0 | 11.0 | |
| 81 Bromoform | 173 | 18.786 | 18.786 | 0.000 | 96 | 2823039 | 10.0 | 11.7 | |
| 82 Isopropylbenzene | 105 | 19.049 | 19.048 | 0.001 | 96 | 5075950 | 10.0 | 10.8 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 32.6 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.771 | 19.771 | 0.000 | 99 | 2734209 | 10.0 | 10.7 | |
| 85 N-Propylbenzene | 91 | 19.851 | 19.851 | 0.000 | 99 | 6031880 | 10.0 | 10.8 | |
| 86 1,2,3-Trichloropropane | 75 | 19.867 | 19.867 | 0.000 | 97 | 2094886 | 10.0 | 9.66 | |
| 89 2-Chlorotoluene | 91 | 20.054 | 20.054 | 0.000 | 97 | 4463388 | 10.0 | 10.6 | |
| 88 4-Ethyltoluene | 105 | 20.060 | 20.060 | 0.000 | 97 | 5257776 | 10.0 | 11.1 | |
| 87 n-Decane | 57 | 20.086 | 20.086 | 0.000 | 93 | 2208808 | 10.0 | 9.83 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 20.183 | 20.177 | 0.006 | 93 | 4340906 | 10.0 | 10.7 | |
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.000 | 90 | 2201531 | 10.0 | 11.5 | |
| 92 tert-Butylbenzene | 119 | 20.702 | 20.702 | 0.000 | 92 | 4064646 | 10.0 | 10.7 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.803 | 20.803 | 0.000 | 97 | 4333930 | 10.0 | 10.8 | |
| 94 sec-Butylbenzene | 105 | 21.049 | 21.049 | 0.000 | 99 | 6007497 | 10.0 | 10.7 | |
| 95 4-Isopropyltoluene | 119 | 21.269 | 21.269 | 0.000 | 97 | 5200991 | 10.0 | 10.8 | |
| 96 1,3-Dichlorobenzene | 146 | 21.279 | 21.279 | 0.000 | 96 | 3487931 | 10.0 | 10.7 | |
| 97 1,4-Dichlorobenzene | 146 | 21.424 | 21.424 | 0.000 | 96 | 3391638 | 10.0 | 10.9 | |
| 98 Benzyl chloride | 91 | 21.627 | 21.627 | 0.000 | 99 | 3870906 | 10.0 | 10.1 | |
| 100 n-Butylbenzene | 91 | 21.857 | 21.857 | 0.000 | 99 | 4651542 | 10.0 | 10.6 | |
| 99 Undecane | 57 | 21.911 | 21.911 | 0.000 | 93 | 2385999 | 10.0 | 9.64 | |
| 101 1,2-Dichlorobenzene | 146 | 21.953 | 21.953 | 0.000 | 96 | 3175494 | 10.0 | 10.6 | |
| 102 Dodecane | 57 | 23.446 | 23.441 | 0.005 | 98 | 1795254 | 10.0 | 9.06 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345 | 24.345 | 0.000 | 94 | 2128324 | 10.0 | 9.49 | |
| 104 Hexachlorobutadiene | 225 | 24.537 | 24.537 | 0.000 | 98 | 2058261 | 10.0 | 9.23 | |
| 105 Naphthalene | 128 | 24.783 | 24.783 | 0.000 | 99 | 3973460 | 10.0 | 9.14 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233 | 25.233 | 0.000 | 95 | 1662966 | 10.0 | 8.58 | |

## QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15LCSW_00787 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

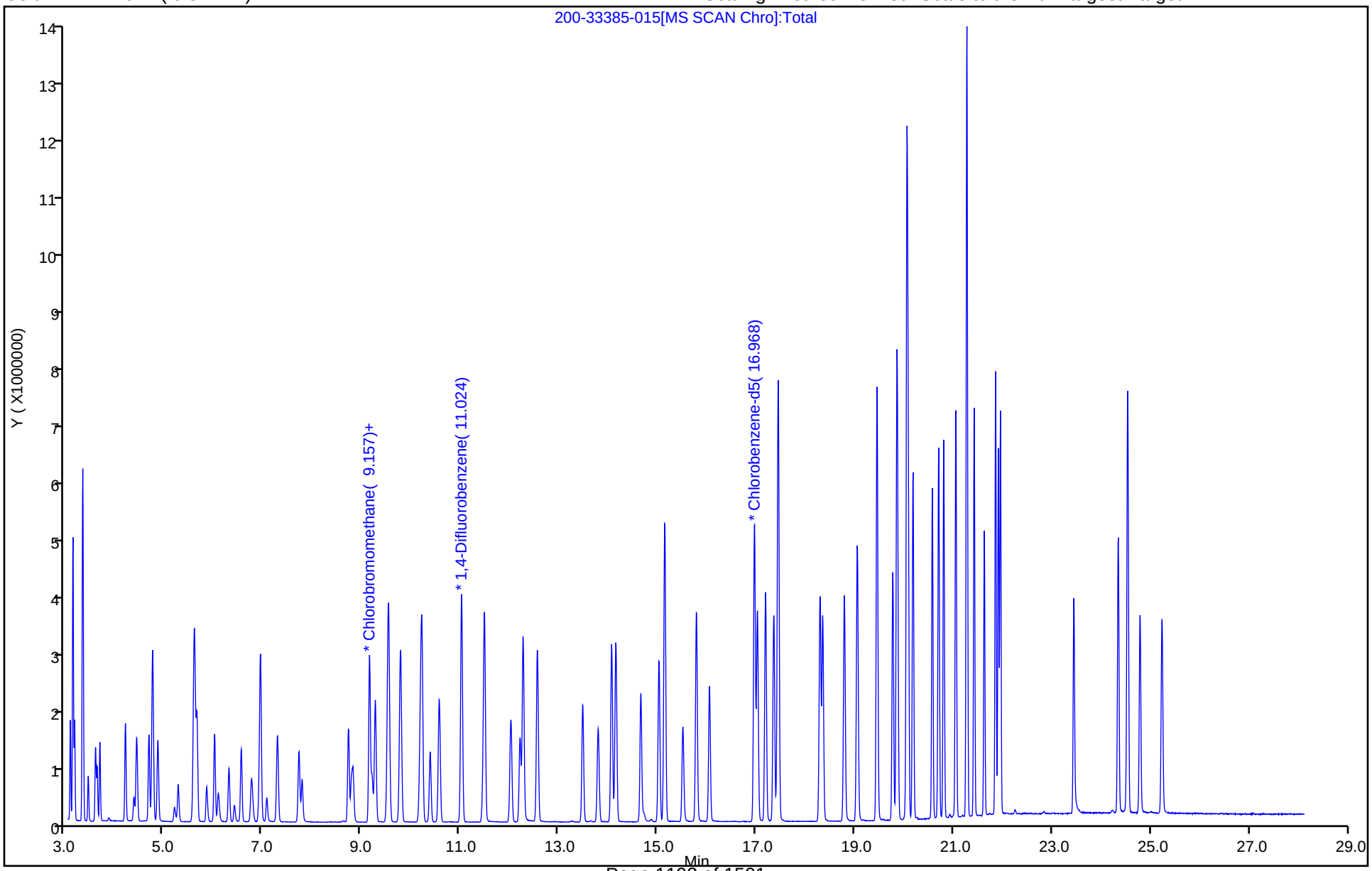
Report Date: 28-Nov-2018 12:18:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-015.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 28-Nov-2018 05:37:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | icv | | | Worklist Smp#: | 15 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 14 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137819/3 Calibration Date: 12/05/2018 15:48

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33531-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.6903 | 0.7389 | | 10.7 | 10.0 | 7.0 | 30.0 |
| Dichlorodifluoromethane | Ave | 3.731 | 3.902 | | 10.5 | 10.0 | 4.6 | 30.0 |
| Chlorodifluoromethane | Ave | 1.588 | 1.591 | | 10.0 | 10.0 | 0.2 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 2.808 | 2.811 | | 10.0 | 10.0 | 0.1 | 30.0 |
| Chloromethane | Ave | 0.7259 | 0.7055 | | 9.72 | 10.0 | -2.8 | 30.0 |
| n-Butane | Ave | 0.9772 | 0.9439 | | 9.66 | 10.0 | -3.4 | 30.0 |
| Vinyl chloride | Ave | 0.8738 | 0.8182 | | 9.36 | 10.0 | -6.4 | 30.0 |
| 1,3-Butadiene | Ave | 0.5437 | 0.5131 | | 9.44 | 10.0 | -5.6 | 30.0 |
| Bromomethane | Ave | 1.009 | 0.9797 | | 9.71 | 10.0 | -2.9 | 30.0 |
| Chloroethane | Ave | 0.3363 | 0.3159 | | 9.39 | 10.0 | -6.1 | 30.0 |
| Isopentane | Ave | 0.6451 | 0.6357 | | 9.85 | 10.0 | -1.5 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.997 | 0.9326 | | 9.35 | 10.0 | -6.5 | 30.0 |
| Trichlorofluoromethane | Ave | 2.948 | 2.813 | | 9.54 | 10.0 | -4.6 | 30.0 |
| n-Pentane | Ave | 0.9764 | 0.9212 | | 9.43 | 10.0 | -5.7 | 30.0 |
| Ethanol | Ave | 0.2022 | 0.2463 | | 18.3 | 15.0 | 21.8 | 30.0 |
| Ethyl ether | Ave | 0.3425 | 0.3492 | | 10.2 | 10.0 | 2.0 | 30.0 |
| Acrolein | Ave | 0.1311 | 0.1305 | | 9.95 | 10.0 | -0.5 | 30.0 |
| 1,1,2-Trichlorotrifluoroethane | Ave | 2.077 | 1.991 | | 9.58 | 10.0 | -4.1 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.9142 | 0.8444 | | 9.24 | 10.0 | -7.6 | 30.0 |
| Acetone | Ave | 0.7785 | 0.8465 | | 10.9 | 10.0 | 8.7 | 30.0 |
| Carbon disulfide | Ave | 2.351 | 2.292 | | 9.75 | 10.0 | -2.5 | 30.0 |
| Isopropyl alcohol | Ave | 0.8603 | 0.8442 | | 9.81 | 10.0 | -1.9 | 30.0 |
| 3-Chloropropene | Ave | 0.6801 | 0.6582 | | 9.68 | 10.0 | -3.2 | 30.0 |
| Acetonitrile | Ave | 0.2847 | 0.2454 | | 8.62 | 10.0 | -13.8 | 30.0 |
| Methylene Chloride | Ave | 0.8250 | 0.7939 | | 9.62 | 10.0 | -3.8 | 30.0 |
| tert-Butyl alcohol | Ave | 1.315 | 1.283 | | 9.75 | 10.0 | -2.5 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.777 | 1.831 | | 10.3 | 10.0 | 3.0 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 1.108 | 1.050 | | 9.48 | 10.0 | -5.2 | 30.0 |
| Acrylonitrile | Ave | 0.3108 | 0.3006 | | 9.67 | 10.0 | -3.3 | 30.0 |
| n-Hexane | Ave | 0.8829 | 0.8587 | | 9.72 | 10.0 | -2.7 | 30.0 |
| 1,1-Dichloroethane | Ave | 1.429 | 1.327 | | 9.28 | 10.0 | -7.2 | 30.0 |
| Vinyl acetate | Ave | 1.081 | 1.157 | | 10.7 | 10.0 | 7.0 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.8660 | 0.8734 | | 10.1 | 10.0 | 0.9 | 30.0 |
| Methyl Ethyl Ketone (2-Butanone) | Ave | 0.2794 | 0.2620 | | 9.37 | 10.0 | -6.2 | 30.0 |
| Ethyl acetate | Ave | 0.0398 | 0.0422 | | 10.6 | 10.0 | 6.0 | 30.0 |
| Tetrahydrofuran | Ave | 0.1141 | 0.1117 | | 9.79 | 10.0 | -2.1 | 30.0 |
| Chloroform | Ave | 2.089 | 2.024 | | 9.69 | 10.0 | -3.1 | 30.0 |
| Cyclohexane | Ave | 0.2295 | 0.2146 | | 9.35 | 10.0 | -6.5 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.5556 | 0.5282 | | 9.50 | 10.0 | -4.9 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137819/3 Calibration Date: 12/05/2018 15:48

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33531-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | Ave | 0.5937 | 0.5864 | | 9.87 | 10.0 | -1.2 | 30.0 |
| 2,2,4-Trimethylpentane | Ave | 0.7593 | 0.7082 | | 9.33 | 10.0 | -6.7 | 30.0 |
| Benzene | Ave | 0.5325 | 0.5372 | | 10.1 | 10.0 | 0.9 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.3080 | 0.2925 | | 9.49 | 10.0 | -5.0 | 30.0 |
| n-Heptane | Ave | 0.2740 | 0.2581 | | 9.42 | 10.0 | -5.8 | 30.0 |
| n-Butanol | Ave | 0.0901 | 0.0728 | | 8.08 | 10.0 | -19.2 | 30.0 |
| Trichloroethene | Ave | 0.3485 | 0.3140 | | 9.01 | 10.0 | -9.9 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.1877 | 0.1855 | | 9.88 | 10.0 | -1.2 | 30.0 |
| Methyl methacrylate | Ave | 0.1550 | 0.1529 | | 9.86 | 10.0 | -1.4 | 30.0 |
| Dibromomethane | Ave | 0.3211 | 0.3139 | | 9.77 | 10.0 | -2.2 | 30.0 |
| 1,4-Dioxane | Ave | 0.0979 | 0.1026 | | 10.5 | 10.0 | 4.8 | 30.0 |
| Bromodichloromethane | Ave | 0.5411 | 0.5507 | | 10.2 | 10.0 | 1.8 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.3350 | 0.3336 | | 9.95 | 10.0 | -0.4 | 30.0 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave | 0.3463 | 0.3198 | | 9.23 | 10.0 | -7.6 | 30.0 |
| Toluene | Ave | 0.4051 | 0.4261 | | 10.5 | 10.0 | 5.2 | 30.0 |
| n-Octane | Ave | 0.4030 | 0.3818 | | 9.47 | 10.0 | -5.2 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.3295 | 0.3223 | | 9.78 | 10.0 | -2.2 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.2192 | 0.2298 | | 10.5 | 10.0 | 4.8 | 30.0 |
| Tetrachloroethene | Ave | 0.4850 | 0.5226 | | 10.8 | 10.0 | 7.8 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.3560 | 0.3360 | | 9.44 | 10.0 | -5.6 | 30.0 |
| Dibromochloromethane | Ave | 0.5859 | 0.6451 | | 11.0 | 10.0 | 10.1 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.4426 | 0.4790 | | 10.8 | 10.0 | 8.2 | 30.0 |
| Chlorobenzene | Ave | 0.6231 | 0.6578 | | 10.6 | 10.0 | 5.6 | 30.0 |
| Ethylbenzene | Ave | 0.9122 | 0.9658 | | 10.6 | 10.0 | 5.9 | 30.0 |
| n-Nonane | Ave | 0.3988 | 0.3935 | | 9.86 | 10.0 | -1.3 | 30.0 |
| m,p-Xylene | Ave | 0.3698 | 0.3905 | | 21.1 | 20.0 | 5.6 | 30.0 |
| o-Xylene | Ave | 0.3514 | 0.3800 | | 10.8 | 10.0 | 8.1 | 30.0 |
| Styrene | Ave | 0.5379 | 0.5845 | | 10.9 | 10.0 | 8.6 | 30.0 |
| Bromoform | Ave | 0.5301 | 0.6061 | | 11.4 | 10.0 | 14.3 | 30.0 |
| Cumene | Ave | 1.028 | 1.135 | | 11.0 | 10.0 | 10.5 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5606 | 0.5737 | | 10.2 | 10.0 | 2.3 | 30.0 |
| n-Propylbenzene | Ave | 1.224 | 1.309 | | 10.7 | 10.0 | 7.0 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.4759 | 0.4527 | | 9.51 | 10.0 | -4.9 | 30.0 |
| 2-Chlorotoluene | Ave | 0.9241 | 0.9573 | | 10.4 | 10.0 | 3.6 | 30.0 |
| 4-Ethyltoluene | Ave | 1.042 | 1.133 | | 10.9 | 10.0 | 8.7 | 30.0 |
| n-Decane | Ave | 0.4933 | 0.4828 | | 9.79 | 10.0 | -2.1 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.8912 | 0.9713 | | 10.9 | 10.0 | 9.0 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.4187 | 0.4987 | | 11.9 | 10.0 | 19.1 | 30.0 |
| tert-Butylbenzene | Ave | 0.8336 | 0.9238 | | 11.1 | 10.0 | 10.8 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.8792 | 0.9715 | | 11.0 | 10.0 | 10.5 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137819/3 Calibration Date: 12/05/2018 15:48

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33531-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | Ave | 1.236 | 1.388 | | 11.2 | 10.0 | 12.3 | 30.0 |
| 4-Isopropyltoluene | Ave | 1.059 | 1.202 | | 11.3 | 10.0 | 13.5 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.7126 | 0.7557 | | 10.6 | 10.0 | 6.1 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.6814 | 0.7375 | | 10.8 | 10.0 | 8.2 | 30.0 |
| Benzyl chloride | Ave | 0.8411 | 0.8757 | | 10.4 | 10.0 | 4.1 | 30.0 |
| n-Butylbenzene | Ave | 0.9659 | 1.070 | | 11.1 | 10.0 | 10.7 | 30.0 |
| n-Undecane | Ave | 0.5433 | 0.5206 | | 9.58 | 10.0 | -4.2 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.6549 | 0.7081 | | 10.8 | 10.0 | 8.1 | 30.0 |
| n-Dodecane | Ave | 0.4351 | 0.3633 | | 8.35 | 10.0 | -16.5 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.4922 | 0.4132 | | 8.39 | 10.0 | -16.1 | 30.0 |
| Hexachlorobutadiene | Ave | 0.4897 | 0.4535 | | 9.26 | 10.0 | -7.4 | 30.0 |
| Naphthalene | Ave | 0.9543 | 0.7399 | | 7.75 | 10.0 | -22.5 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.4252 | 0.3272 | | 7.69 | 10.0 | -23.0 | 30.0 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-003.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2018 15:48:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-003
Operator ID: ert Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 12:53:21 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: bunmaa Date: 06-Dec-2018 12:53:21

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.096 | 3.096 | 0.000 | 97 | 476676 | 10.0 | 10.7 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 2517190 | 10.0 | 10.5 | |
| 3 Chlorodifluoromethane | 51 | 3.181 | 3.181 | 0.000 | 96 | 1026547 | 10.0 | 10.0 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.347 | 3.347 | 0.000 | 90 | 1813280 | 10.0 | 10.0 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 455097 | 10.0 | 9.72 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 608903 | 10.0 | 9.66 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 527790 | 10.0 | 9.36 | |
| 8 Butadiene | 54 | 3.695 | 3.695 | 0.000 | 94 | 330961 | 10.0 | 9.44 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 98 | 631978 | 10.0 | 9.71 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 99 | 203801 | 10.0 | 9.39 | |
| 12 2-Methylbutane | 43 | 4.433 | 4.433 | 0.000 | 90 | 410074 | 10.0 | 9.85 | |
| 13 Vinyl bromide | 106 | 4.684 | 4.684 | 0.000 | 98 | 601628 | 10.0 | 9.35 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 1814478 | 10.0 | 9.54 | |
| 16 Pentane | 43 | 4.866 | 4.866 | 0.000 | 98 | 594261 | 10.0 | 9.43 | |
| 17 Ethanol | 45 | 5.203 | 5.203 | 0.000 | 96 | 238410 | 15.0 | 18.3 | a |
| 18 Ethyl ether | 59 | 5.278 | 5.278 | 0.000 | 96 | 225284 | 10.0 | 10.2 | |
| 19 Acrolein | 56 | 5.594 | 5.594 | 0.000 | 96 | 84188 | 10.0 | 9.95 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 96 | 1284278 | 10.0 | 9.58 | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 97 | 544731 | 10.0 | 9.24 | |
| 9 BFB | | | | | | | | | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 546067 | 10.0 | 10.9 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.017 | 0.000 | 99 | 1478820 | 10.0 | 9.75 | |
| 24 Isopropyl alcohol | 45 | 6.097 | 6.097 | 0.000 | 100 | 544584 | 10.0 | 9.81 | |
| 25 3-Chloro-1-propene | 41 | 6.305 | 6.305 | 0.000 | 96 | 424584 | 10.0 | 9.68 | |
| 26 Acetonitrile | 41 | 6.418 | 6.418 | 0.000 | 98 | 158299 | 10.0 | 8.62 | |
| 27 Methylene Chloride | 49 | 6.551 | 6.551 | 0.000 | 88 | 512129 | 10.0 | 9.62 | |
| 28 2-Methyl-2-propanol | 59 | 6.771 | 6.771 | 0.000 | 94 | 827532 | 10.0 | 9.75 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 95 | 1181364 | 10.0 | 10.3 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 95 | 677570 | 10.0 | 9.48 | |
| 32 Acrylonitrile | 53 | 7.070 | 7.070 | 0.000 | 93 | 193902 | 10.0 | 9.67 | |
| 33 Hexane | 57 | 7.295 | 7.295 | 0.000 | 90 | 553933 | 10.0 | 9.72 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 7.728 | 7.728 | 0.000 | 99 | 856030 | 10.0 | 9.28 | |
| 35 Vinyl acetate | 43 | 7.787 | 7.787 | 0.000 | 100 | 746302 | 10.0 | 10.7 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.729 | 8.729 | 0.000 | 89 | 563393 | 10.0 | 10.1 | |
| 38 2-Butanone (MEK) | 72 | 8.793 | 8.793 | 0.000 | 99 | 168980 | 10.0 | 9.37 | |
| 39 Ethyl acetate | 88 | 8.830 | 8.830 | 0.000 | 99 | 27244 | 10.0 | 10.6 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.157 | 0.000 | 74 | 645208 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.210 | 9.210 | 0.000 | 84 | 318927 | 10.0 | 9.79 | |
| 42 Chloroform | 83 | 9.269 | 9.269 | 0.000 | 95 | 1305451 | 10.0 | 9.69 | |
| 43 Cyclohexane | 84 | 9.526 | 9.526 | 0.000 | 95 | 612698 | 10.0 | 9.35 | |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.542 | 0.000 | 94 | 1507834 | 10.0 | 9.50 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 19.6 | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.783 | 0.000 | 98 | 1673995 | 10.0 | 9.87 | |
| 46 Isooctane | 57 | 10.195 | 10.195 | 0.000 | 97 | 2021827 | 10.0 | 9.33 | |
| 47 Benzene | 78 | 10.216 | 10.216 | 0.000 | 95 | 1533527 | 10.0 | 10.1 | |
| 48 1,2-Dichloroethane | 62 | 10.382 | 10.382 | 0.000 | 99 | 834932 | 10.0 | 9.49 | |
| 49 n-Heptane | 43 | 10.564 | 10.564 | 0.000 | 91 | 736676 | 10.0 | 9.42 | |
| * 50 1,4-Difluorobenzene | 114 | 11.018 | 11.018 | 0.000 | 93 | 2855376 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.463 | 11.463 | 0.000 | 89 | 207798 | 10.0 | 8.08 | |
| 53 Trichloroethene | 95 | 11.479 | 11.479 | 0.000 | 99 | 896351 | 10.0 | 9.01 | |
| 54 1,2-Dichloropropane | 63 | 12.019 | 12.019 | 0.000 | 85 | 529540 | 10.0 | 9.88 | |
| 55 Methyl methacrylate | 69 | 12.206 | 12.206 | 0.000 | 95 | 436484 | 10.0 | 9.86 | |
| A 51 GRO | 1 | 12.257 | (4.423-20.091) | | 0 | 232682143 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.270 | 12.270 | 0.000 | 95 | 896168 | 10.0 | 9.77 | |
| 56 1,4-Dioxane | 88 | 12.286 | 12.286 | 0.000 | 88 | 292753 | 10.0 | 10.5 | |
| 58 Dichlorobromomethane | 83 | 12.559 | 12.559 | 0.000 | 98 | 1572273 | 10.0 | 10.2 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.474 | 13.474 | 0.000 | 93 | 952229 | 10.0 | 9.95 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.790 | 13.790 | 0.000 | 97 | 913087 | 10.0 | 9.23 | |
| 65 Toluene | 92 | 14.057 | 14.057 | 0.000 | 95 | 1112366 | 10.0 | 10.5 | |
| 64 n-Octane | 43 | 14.148 | 14.148 | 0.000 | 89 | 1090050 | 10.0 | 9.47 | |
| A 59 TVOC as Toluene | 92 | 14.159 | (3.086-25.232) | | 0 | 362519147 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.656 | 14.656 | 0.000 | 97 | 920057 | 10.0 | 9.78 | |
| 67 1,1,2-Trichloroethane | 83 | 15.025 | 15.025 | 0.000 | 97 | 600039 | 10.0 | 10.5 | |
| 68 Tetrachloroethene | 166 | 15.143 | 15.143 | 0.000 | 96 | 1364456 | 10.0 | 10.8 | |
| 69 2-Hexanone | 43 | 15.507 | 15.507 | 0.000 | 94 | 877166 | 10.0 | 9.44 | |
| 71 Chlorodibromomethane | 129 | 15.780 | 15.780 | 0.000 | 97 | 1684232 | 10.0 | 11.0 | |
| 72 Ethylene Dibromide | 107 | 16.047 | 16.047 | 0.000 | 99 | 1250398 | 10.0 | 10.8 | |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2611220 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.021 | 17.021 | 0.000 | 97 | 1717348 | 10.0 | 10.6 | |
| 76 Ethylbenzene | 91 | 17.187 | 17.187 | 0.000 | 98 | 2521434 | 10.0 | 10.6 | |
| 77 n-Nonane | 57 | 17.353 | 17.353 | 0.000 | 86 | 1027174 | 10.0 | 9.86 | |
| 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.438 | 0.000 | 0 | 2039050 | 20.0 | 21.1 | |
| 79 o-Xylene | 106 | 18.289 | 18.289 | 0.000 | 99 | 992168 | 10.0 | 10.8 | |
| 80 Styrene | 104 | 18.342 | 18.342 | 0.000 | 98 | 1525862 | 10.0 | 10.9 | |
| 81 Bromoform | 173 | 18.781 | 18.781 | 0.000 | 96 | 1582349 | 10.0 | 11.4 | |
| 82 Isopropylbenzene | 105 | 19.043 | 19.043 | 0.000 | 96 | 2964401 | 10.0 | 11.0 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 31.9 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.765 | 19.765 | 0.000 | 99 | 1497860 | 10.0 | 10.2 | |
| 85 N-Propylbenzene | 91 | 19.846 | 19.846 | 0.000 | 99 | 3416507 | 10.0 | 10.7 | |
| 86 1,2,3-Trichloropropane | 75 | 19.862 | 19.862 | 0.000 | 96 | 1181914 | 10.0 | 9.51 | |
| 89 2-Chlorotoluene | 91 | 20.049 | 20.049 | 0.000 | 96 | 2499147 | 10.0 | 10.4 | |
| 88 4-Ethyltoluene | 105 | 20.054 | 20.054 | 0.000 | 98 | 2957091 | 10.0 | 10.9 | |
| 87 n-Decane | 57 | 20.081 | 20.081 | 0.000 | 93 | 1260421 | 10.0 | 9.79 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 20.177 | 20.177 | 0.000 | 93 | 2535844 | 10.0 | 10.9 | |
| 91 Alpha Methyl Styrene | 118 | 20.568 | 20.568 | 0.000 | 91 | 1301999 | 10.0 | 11.9 | |
| 92 tert-Butylbenzene | 119 | 20.696 | 20.696 | 0.000 | 92 | 2411841 | 10.0 | 11.1 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.798 | 0.000 | 97 | 2536281 | 10.0 | 11.0 | |
| 94 sec-Butylbenzene | 105 | 21.044 | 21.044 | 0.000 | 99 | 3624719 | 10.0 | 11.2 | |
| 95 4-Isopropyltoluene | 119 | 21.263 | 21.263 | 0.000 | 97 | 3139036 | 10.0 | 11.3 | |
| 96 1,3-Dichlorobenzene | 146 | 21.274 | 21.274 | 0.000 | 96 | 1972984 | 10.0 | 10.6 | |
| 97 1,4-Dichlorobenzene | 146 | 21.418 | 21.418 | 0.000 | 96 | 1925474 | 10.0 | 10.8 | |
| 98 Benzyl chloride | 91 | 21.622 | 21.622 | 0.000 | 99 | 2286248 | 10.0 | 10.4 | |
| 100 n-Butylbenzene | 91 | 21.852 | 21.852 | 0.000 | 98 | 2792436 | 10.0 | 11.1 | |
| 99 Undecane | 57 | 21.905 | 21.905 | 0.000 | 93 | 1359022 | 10.0 | 9.58 | |
| 101 1,2-Dichlorobenzene | 146 | 21.948 | 21.948 | 0.000 | 97 | 1848703 | 10.0 | 10.8 | |
| 102 Dodecane | 57 | 23.435 | 23.435 | 0.000 | 96 | 948438 | 10.0 | 8.35 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334 | 24.334 | 0.000 | 94 | 1078810 | 10.0 | 8.39 | |
| 104 Hexachlorobutadiene | 225 | 24.526 | 24.526 | 0.000 | 98 | 1183898 | 10.0 | 9.26 | |
| 105 Naphthalene | 128 | 24.778 | 24.778 | 0.000 | 99 | 1931593 | 10.0 | 7.75 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.222 | 25.222 | 0.000 | 96 | 854333 | 10.0 | 7.69 | |

## QC Flag Legend

Review Flags

a - User Assigned ID

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL4w_00706 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

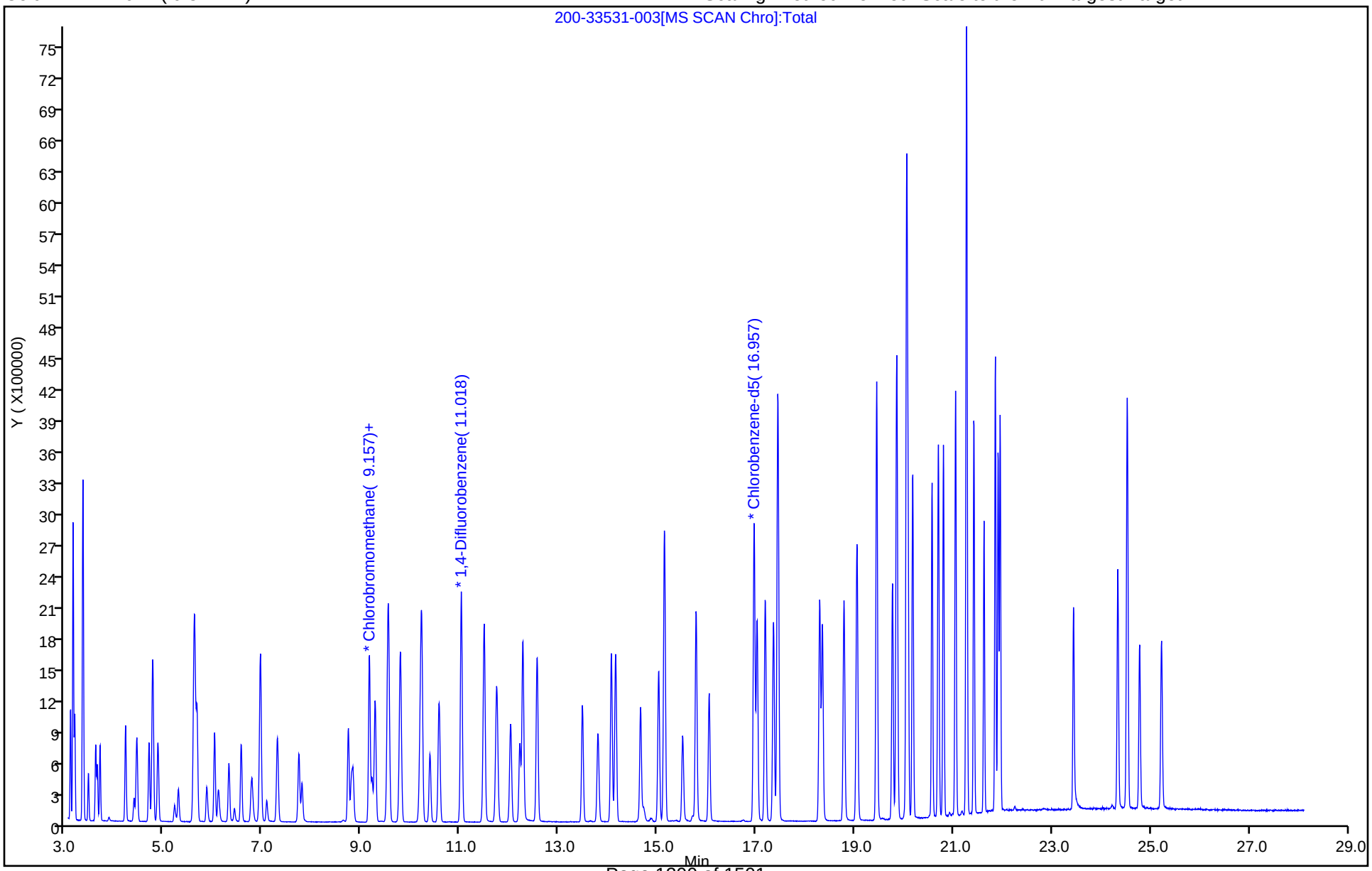
Report Date: 06-Dec-2018 12:53:22 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-003.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 15:48:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | ccvis | | | Worklist Smp#: | 3 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

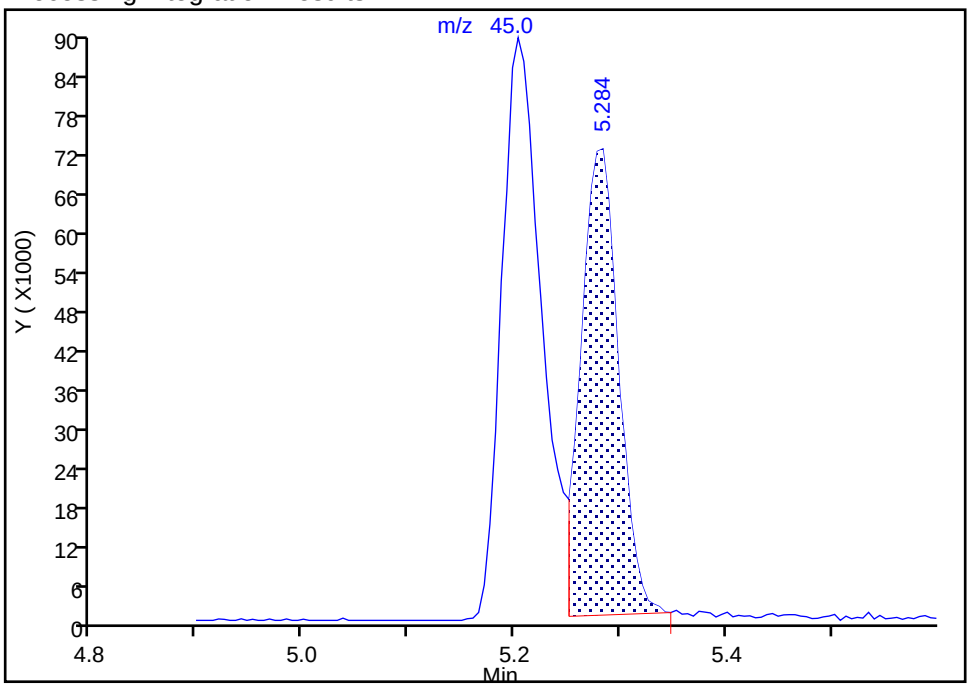
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-003.D | | | | |
| Injection Date: | 05-Dec-2018 15:48:30 | Instrument ID: | CHG.i | | |
| Lims ID: | ccvis | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 3 | Worklist Smp#: | 3 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 17 Ethanol, CAS: 64-17-5

Signal: 1

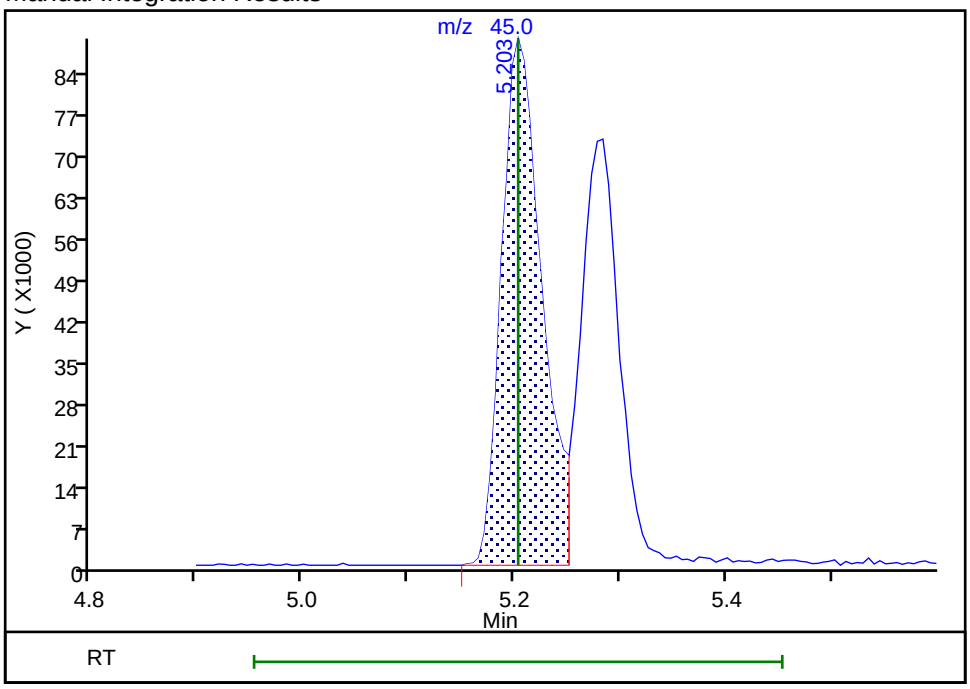
Processing Integration Results

RT: 5.28
Area: 176661
Amount: 13.540377
Amount Units: ppb v/v




Manual Integration Results

RT: 5.20
Area: 238410
Amount: 18.273196
Amount Units: ppb v/v




Reviewer: tobere, 05-Dec-2018 16:46:03

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137867/3 Calibration Date: 12/06/2018 15:53

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33558-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.6903 | 0.6584 | | 9.54 | 10.0 | -4.6 | 30.0 |
| Dichlorodifluoromethane | Ave | 3.731 | 3.979 | | 10.7 | 10.0 | 6.6 | 30.0 |
| Chlorodifluoromethane | Ave | 1.588 | 1.527 | | 9.62 | 10.0 | -3.8 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 2.808 | 3.006 | | 10.7 | 10.0 | 7.1 | 30.0 |
| Chloromethane | Ave | 0.7259 | 0.6469 | | 8.91 | 10.0 | -10.9 | 30.0 |
| n-Butane | Ave | 0.9772 | 0.8850 | | 9.06 | 10.0 | -9.4 | 30.0 |
| Vinyl chloride | Ave | 0.8738 | 0.7531 | | 8.62 | 10.0 | -13.8 | 30.0 |
| 1,3-Butadiene | Ave | 0.5437 | 0.4877 | | 8.97 | 10.0 | -10.3 | 30.0 |
| Bromomethane | Ave | 1.009 | 0.9575 | | 9.49 | 10.0 | -5.1 | 30.0 |
| Chloroethane | Ave | 0.3363 | 0.3066 | | 9.12 | 10.0 | -8.8 | 30.0 |
| Isopentane | Ave | 0.6451 | 0.5908 | | 9.16 | 10.0 | -8.4 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.997 | 0.9839 | | 9.86 | 10.0 | -1.4 | 30.0 |
| Trichlorofluoromethane | Ave | 2.948 | 2.865 | | 9.72 | 10.0 | -2.8 | 30.0 |
| n-Pentane | Ave | 0.9764 | 0.9018 | | 9.23 | 10.0 | -7.6 | 30.0 |
| Ethanol | Ave | 0.2022 | 0.2243 | | 16.6 | 15.0 | 10.9 | 30.0 |
| Ethyl ether | Ave | 0.3425 | 0.3760 | | 11.0 | 10.0 | 9.8 | 30.0 |
| Acrolein | Ave | 0.1311 | 0.1292 | | 9.85 | 10.0 | -1.5 | 30.0 |
| 1,1,2-Trichlorotrifluoroethane | Ave | 2.077 | 1.812 | | 8.72 | 10.0 | -12.7 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.9142 | 0.7869 | | 8.61 | 10.0 | -13.9 | 30.0 |
| Acetone | Ave | 0.7785 | 0.7483 | | 9.61 | 10.0 | -3.9 | 30.0 |
| Carbon disulfide | Ave | 2.351 | 2.255 | | 9.59 | 10.0 | -4.1 | 30.0 |
| Isopropyl alcohol | Ave | 0.8603 | 0.7620 | | 8.86 | 10.0 | -11.4 | 30.0 |
| 3-Chloropropene | Ave | 0.6801 | 0.5461 | | 8.03 | 10.0 | -19.7 | 30.0 |
| Acetonitrile | Ave | 0.2847 | 0.2865 | | 10.1 | 10.0 | 0.6 | 30.0 |
| Methylene Chloride | Ave | 0.8250 | 0.6889 | | 8.35 | 10.0 | -16.5 | 30.0 |
| tert-Butyl alcohol | Ave | 1.315 | 1.252 | | 9.52 | 10.0 | -4.8 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.777 | 1.767 | | 9.94 | 10.0 | -0.6 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 1.108 | 1.029 | | 9.29 | 10.0 | -7.1 | 30.0 |
| Acrylonitrile | Ave | 0.3108 | 0.2936 | | 9.45 | 10.0 | -5.5 | 30.0 |
| n-Hexane | Ave | 0.8829 | 0.8359 | | 9.47 | 10.0 | -5.3 | 30.0 |
| 1,1-Dichloroethane | Ave | 1.429 | 1.221 | | 8.54 | 10.0 | -14.6 | 30.0 |
| Vinyl acetate | Ave | 1.081 | 1.092 | | 10.1 | 10.0 | 1.0 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.8660 | 0.8259 | | 9.54 | 10.0 | -4.6 | 30.0 |
| Methyl Ethyl Ketone (2-Butanone) | Ave | 0.2794 | 0.2535 | | 9.07 | 10.0 | -9.2 | 30.0 |
| Ethyl acetate | Ave | 0.0398 | 0.0400 | | 10.0 | 10.0 | 0.4 | 30.0 |
| Tetrahydrofuran | Ave | 0.1141 | 0.0985 | | 8.63 | 10.0 | -13.6 | 30.0 |
| Chloroform | Ave | 2.089 | 1.852 | | 8.86 | 10.0 | -11.3 | 30.0 |
| Cyclohexane | Ave | 0.2295 | 0.1856 | | 8.08 | 10.0 | -19.1 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.5556 | 0.4515 | | 8.12 | 10.0 | -18.7 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137867/3 Calibration Date: 12/06/2018 15:53

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33558-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | Ave | 0.5937 | 0.5175 | | 8.71 | 10.0 | -12.8 | 30.0 |
| 2,2,4-Trimethylpentane | Ave | 0.7593 | 0.5820 | | 7.66 | 10.0 | -23.4 | 30.0 |
| Benzene | Ave | 0.5325 | 0.4116 | | 7.73 | 10.0 | -22.7 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.3080 | 0.2234 | | 7.25 | 10.0 | -27.5 | 30.0 |
| n-Heptane | Ave | 0.2740 | 0.2044 | | 7.46 | 10.0 | -25.4 | 30.0 |
| n-Butanol | Ave | 0.0901 | 0.0805 | | 8.93 | 10.0 | -10.7 | 30.0 |
| Trichloroethene | Ave | 0.3485 | 0.2800 | | 8.03 | 10.0 | -19.6 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.1877 | 0.1469 | | 7.82 | 10.0 | -21.7 | 30.0 |
| Methyl methacrylate | Ave | 0.1550 | 0.1432 | | 9.23 | 10.0 | -7.7 | 30.0 |
| Dibromomethane | Ave | 0.3211 | 0.2741 | | 8.53 | 10.0 | -14.7 | 30.0 |
| 1,4-Dioxane | Ave | 0.0979 | 0.0862 | | 8.80 | 10.0 | -12.0 | 30.0 |
| Bromodichloromethane | Ave | 0.5411 | 0.4460 | | 8.24 | 10.0 | -17.6 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.3350 | 0.2657 | | 7.93 | 10.0 | -20.7 | 30.0 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave | 0.3463 | 0.2867 | | 8.28 | 10.0 | -17.2 | 30.0 |
| Toluene | Ave | 0.4051 | 0.3659 | | 9.03 | 10.0 | -9.7 | 30.0 |
| n-Octane | Ave | 0.4030 | 0.3027 | | 7.51 | 10.0 | -24.9 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.3295 | 0.2931 | | 8.89 | 10.0 | -11.0 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.2192 | 0.1983 | | 9.05 | 10.0 | -9.5 | 30.0 |
| Tetrachloroethene | Ave | 0.4850 | 0.4678 | | 9.64 | 10.0 | -3.6 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.3560 | 0.3033 | | 8.52 | 10.0 | -14.8 | 30.0 |
| Dibromochloromethane | Ave | 0.5859 | 0.5384 | | 9.19 | 10.0 | -8.1 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.4426 | 0.4186 | | 9.46 | 10.0 | -5.4 | 30.0 |
| Chlorobenzene | Ave | 0.6231 | 0.5665 | | 9.09 | 10.0 | -9.1 | 30.0 |
| Ethylbenzene | Ave | 0.9122 | 0.8518 | | 9.34 | 10.0 | -6.6 | 30.0 |
| n-Nonane | Ave | 0.3988 | 0.3218 | | 8.07 | 10.0 | -19.3 | 30.0 |
| m,p-Xylene | Ave | 0.3698 | 0.3499 | | 18.9 | 20.0 | -5.4 | 30.0 |
| o-Xylene | Ave | 0.3514 | 0.3434 | | 9.77 | 10.0 | -2.3 | 30.0 |
| Styrene | Ave | 0.5379 | 0.5250 | | 9.76 | 10.0 | -2.4 | 30.0 |
| Bromoform | Ave | 0.5301 | 0.5199 | | 9.81 | 10.0 | -1.9 | 30.0 |
| Cumene | Ave | 1.028 | 0.998 | | 9.71 | 10.0 | -2.9 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.5606 | 0.5177 | | 9.23 | 10.0 | -7.7 | 30.0 |
| n-Propylbenzene | Ave | 1.224 | 1.165 | | 9.52 | 10.0 | -4.8 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.4759 | 0.3862 | | 8.11 | 10.0 | -18.9 | 30.0 |
| 2-Chlorotoluene | Ave | 0.9241 | 0.8553 | | 9.25 | 10.0 | -7.4 | 30.0 |
| 4-Ethyltoluene | Ave | 1.042 | 1.032 | | 9.91 | 10.0 | -0.9 | 30.0 |
| n-Decane | Ave | 0.4933 | 0.3951 | | 8.01 | 10.0 | -19.9 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.8912 | 0.8741 | | 9.81 | 10.0 | -1.9 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.4187 | 0.4445 | | 10.6 | 10.0 | 6.2 | 30.0 |
| tert-Butylbenzene | Ave | 0.8336 | 0.8243 | | 9.89 | 10.0 | -1.1 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.8792 | 0.8751 | | 9.95 | 10.0 | -0.5 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Lab Sample ID: CCVIS 200-137867/3 Calibration Date: 12/06/2018 15:53

Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 11/28/2018 02:15

Lab File ID: 200-33558-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | Ave | 1.236 | 1.207 | | 9.76 | 10.0 | -2.4 | 30.0 |
| 4-Isopropyltoluene | Ave | 1.059 | 1.056 | | 9.97 | 10.0 | -0.3 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.7126 | 0.7107 | | 9.97 | 10.0 | -0.3 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.6814 | 0.7008 | | 10.3 | 10.0 | 2.9 | 30.0 |
| Benzyl chloride | Ave | 0.8411 | 0.7454 | | 8.86 | 10.0 | -11.4 | 30.0 |
| n-Butylbenzene | Ave | 0.9659 | 0.9229 | | 9.55 | 10.0 | -4.5 | 30.0 |
| n-Undecane | Ave | 0.5433 | 0.4334 | | 7.98 | 10.0 | -20.2 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.6549 | 0.6607 | | 10.1 | 10.0 | 0.9 | 30.0 |
| n-Dodecane | Ave | 0.4351 | 0.3421 | | 7.86 | 10.0 | -21.4 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.4922 | 0.4566 | | 9.27 | 10.0 | -7.2 | 30.0 |
| Hexachlorobutadiene | Ave | 0.4897 | 0.4540 | | 9.27 | 10.0 | -7.3 | 30.0 |
| Naphthalene | Ave | 0.9543 | 0.8023 | | 8.41 | 10.0 | -15.9 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.4252 | 0.3688 | | 8.67 | 10.0 | -13.3 | 30.0 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-003.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Dec-2018 15:53:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033558-003
Operator ID: ert Instrument ID: CHG.i
Sublist: chrom-TO15_MasterMethod_(v1)_G*sub1

Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 15:48:38 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: puangmaleek Date: 07-Dec-2018 15:48:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.090 | 0.000 | 97 | 426047 | 10.0 | 9.54 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.144 | 0.000 | 99 | 2574400 | 10.0 | 10.7 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.176 | 0.000 | 96 | 988343 | 10.0 | 9.62 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.342 | 0.000 | 90 | 1945250 | 10.0 | 10.7 | |
| 5 Chloromethane | 50 | 3.454 | 3.454 | 0.000 | 99 | 418601 | 10.0 | 8.91 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 572689 | 10.0 | 9.06 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.636 | 0.000 | 98 | 487303 | 10.0 | 8.62 | |
| 8 Butadiene | 54 | 3.689 | 3.689 | 0.000 | 95 | 315595 | 10.0 | 8.97 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 99 | 619594 | 10.0 | 9.49 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 99 | 198385 | 10.0 | 9.12 | |
| 12 2-Methylbutane | 43 | 4.438 | 4.438 | 0.000 | 87 | 382267 | 10.0 | 9.16 | |
| 13 Vinyl bromide | 106 | 4.684 | 4.684 | 0.000 | 99 | 636654 | 10.0 | 9.86 | |
| 14 Trichlorofluoromethane | 101 | 4.759 | 4.759 | 0.000 | 98 | 1854168 | 10.0 | 9.72 | |
| 16 Pentane | 43 | 4.861 | 4.861 | 0.000 | 98 | 583506 | 10.0 | 9.23 | |
| 17 Ethanol | 45 | 5.203 | 5.203 | 0.000 | 97 | 217780 | 15.0 | 16.6 | |
| 18 Ethyl ether | 59 | 5.278 | 5.278 | 0.000 | 97 | 243302 | 10.0 | 11.0 | |
| 19 Acrolein | 56 | 5.589 | 5.589 | 0.000 | 96 | 83586 | 10.0 | 9.85 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 97 | 1172522 | 10.0 | 8.72 | |
| 9 BFB | | | | | | | | | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 96 | 509154 | 10.0 | 8.61 | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 484234 | 10.0 | 9.61 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.011 | 0.000 | 99 | 1459222 | 10.0 | 9.59 | |
| 24 Isopropyl alcohol | 45 | 6.091 | 6.091 | 0.000 | 100 | 493074 | 10.0 | 8.86 | |
| 25 3-Chloro-1-propene | 41 | 6.300 | 6.300 | 0.000 | 94 | 353395 | 10.0 | 8.03 | |
| 26 Acetonitrile | 41 | 6.412 | 6.412 | 0.000 | 98 | 185376 | 10.0 | 10.1 | |
| 27 Methylene Chloride | 49 | 6.551 | 6.551 | 0.000 | 87 | 445788 | 10.0 | 8.35 | |
| 28 2-Methyl-2-propanol | 59 | 6.765 | 6.765 | 0.000 | 94 | 810429 | 10.0 | 9.52 | |
| 29 Methyl tert-butyl ether | 73 | 6.931 | 6.931 | 0.000 | 95 | 1143390 | 10.0 | 9.94 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.947 | 6.947 | 0.000 | 94 | 665981 | 10.0 | 9.29 | |
| 32 Acrylonitrile | 53 | 7.070 | 7.070 | 0.000 | 92 | 189989 | 10.0 | 9.45 | |
| 33 Hexane | 57 | 7.290 | 7.290 | 0.000 | 90 | 540881 | 10.0 | 9.47 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 7.718 | 7.718 | 0.000 | 99 | 789945 | 10.0 | 8.54 | |
| 35 Vinyl acetate | 43 | 7.782 | 7.782 | 0.000 | 100 | 706507 | 10.0 | 10.1 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.723 | 8.723 | 0.000 | 88 | 534404 | 10.0 | 9.54 | |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.788 | 0.000 | 100 | 164061 | 10.0 | 9.07 | |
| 39 Ethyl acetate | 88 | 8.820 | 8.820 | 0.000 | 99 | 25870 | 10.0 | 10.0 | |
| * 40 Chlorobromomethane | 128 | 9.151 | 9.151 | 0.000 | 72 | 647200 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.210 | 9.210 | 0.000 | 83 | 314794 | 10.0 | 8.63 | |
| 42 Chloroform | 83 | 9.269 | 9.269 | 0.000 | 96 | 1198307 | 10.0 | 8.86 | |
| 43 Cyclohexane | 84 | 9.526 | 9.526 | 0.000 | 93 | 592968 | 10.0 | 8.08 | |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.542 | 0.000 | 94 | 1442634 | 10.0 | 8.12 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 18.8 | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.783 | 0.000 | 98 | 1653437 | 10.0 | 8.71 | |
| 46 Isooctane | 57 | 10.200 | 10.200 | 0.000 | 97 | 1859313 | 10.0 | 7.66 | |
| 47 Benzene | 78 | 10.216 | 10.216 | 0.000 | 95 | 1314999 | 10.0 | 7.73 | |
| 48 1,2-Dichloroethane | 62 | 10.382 | 10.382 | 0.000 | 99 | 713814 | 10.0 | 7.25 | |
| 49 n-Heptane | 43 | 10.569 | 10.569 | 0.000 | 90 | 652888 | 10.0 | 7.46 | |
| * 50 1,4-Difluorobenzene | 114 | 11.019 | 11.019 | 0.000 | 93 | 3195571 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.457 | 11.457 | 0.000 | 88 | 257152 | 10.0 | 8.93 | |
| 53 Trichloroethene | 95 | 11.484 | 11.484 | 0.000 | 99 | 894563 | 10.0 | 8.03 | |
| 54 1,2-Dichloropropane | 63 | 12.024 | 12.024 | 0.000 | 87 | 469346 | 10.0 | 7.82 | |
| 55 Methyl methacrylate | 69 | 12.206 | 12.206 | 0.000 | 96 | 457393 | 10.0 | 9.23 | |
| A 51 GRO | 1 | 12.257 | (4.428-20.086) | | 0 | 225855430 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.270 | 12.270 | 0.000 | 94 | 875599 | 10.0 | 8.53 | |
| 56 1,4-Dioxane | 88 | 12.281 | 12.281 | 0.000 | 87 | 275309 | 10.0 | 8.80 | |
| 58 Dichlorobromomethane | 83 | 12.554 | 12.554 | 0.000 | 98 | 1424946 | 10.0 | 8.24 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.474 | 13.474 | 0.000 | 92 | 848748 | 10.0 | 7.93 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.790 | 13.790 | 0.000 | 96 | 915937 | 10.0 | 8.28 | |
| 65 Toluene | 92 | 14.062 | 14.062 | 0.000 | 94 | 1097426 | 10.0 | 9.03 | |
| 64 n-Octane | 43 | 14.148 | 14.148 | 0.000 | 87 | 967019 | 10.0 | 7.51 | |
| A 59 TVOC as Toluene | 92 | 14.153 | (3.080-25.227) | | 0 | 362439345 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.651 | 14.651 | 0.000 | 96 | 936516 | 10.0 | 8.89 | |
| 67 1,1,2-Trichloroethane | 83 | 15.020 | 15.020 | 0.000 | 96 | 594913 | 10.0 | 9.05 | |
| 68 Tetrachloroethene | 166 | 15.138 | 15.138 | 0.000 | 96 | 1403080 | 10.0 | 9.64 | |
| 69 2-Hexanone | 43 | 15.507 | 15.507 | 0.000 | 95 | 909756 | 10.0 | 8.52 | |
| 71 Chlorodibromomethane | 129 | 15.780 | 15.780 | 0.000 | 97 | 1614874 | 10.0 | 9.19 | |
| 72 Ethylene Dibromide | 107 | 16.042 | 16.042 | 0.000 | 99 | 1255592 | 10.0 | 9.46 | |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 3000021 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.016 | 17.016 | 0.000 | 96 | 1699306 | 10.0 | 9.09 | |
| 76 Ethylbenzene | 91 | 17.181 | 17.181 | 0.000 | 98 | 2554883 | 10.0 | 9.34 | |
| 77 n-Nonane | 57 | 17.347 | 17.347 | 0.000 | 83 | 965315 | 10.0 | 8.07 | |
| 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.438 | 0.000 | 0 | 2099082 | 20.0 | 18.9 | |
| 79 o-Xylene | 106 | 18.289 | 18.289 | 0.000 | 99 | 1030106 | 10.0 | 9.77 | |
| 80 Styrene | 104 | 18.342 | 18.342 | 0.000 | 98 | 1574567 | 10.0 | 9.76 | |
| 81 Bromoform | 173 | 18.781 | 18.781 | 0.000 | 97 | 1559464 | 10.0 | 9.81 | |
| 82 Isopropylbenzene | 105 | 19.043 | 19.043 | 0.000 | 96 | 2993347 | 10.0 | 9.71 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 28.7 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.760 | 19.760 | 0.000 | 99 | 1552702 | 10.0 | 9.23 | |
| 85 N-Propylbenzene | 91 | 19.846 | 19.846 | 0.000 | 99 | 3494721 | 10.0 | 9.52 | |
| 86 1,2,3-Trichloropropane | 75 | 19.856 | 19.856 | 0.000 | 96 | 1158286 | 10.0 | 8.11 | |
| 89 2-Chlorotoluene | 91 | 20.043 | 20.043 | 0.000 | 96 | 2565387 | 10.0 | 9.25 | |
| 88 4-Ethyltoluene | 105 | 20.054 | 20.054 | 0.000 | 98 | 3095789 | 10.0 | 9.91 | |
| 87 n-Decane | 57 | 20.076 | 20.076 | 0.000 | 94 | 1185108 | 10.0 | 8.01 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.172 | 0.000 | 93 | 2621701 | 10.0 | 9.81 | |
| 91 Alpha Methyl Styrene | 118 | 20.568 | 20.568 | 0.000 | 91 | 1333311 | 10.0 | 10.6 | |
| 92 tert-Butylbenzene | 119 | 20.691 | 20.691 | 0.000 | 92 | 2472444 | 10.0 | 9.89 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.798 | 0.000 | 97 | 2624672 | 10.0 | 9.95 | |
| 94 sec-Butylbenzene | 105 | 21.044 | 21.044 | 0.000 | 99 | 3619225 | 10.0 | 9.76 | |
| 95 4-Isopropyltoluene | 119 | 21.263 | 21.263 | 0.000 | 97 | 3168047 | 10.0 | 9.97 | |
| 96 1,3-Dichlorobenzene | 146 | 21.269 | 21.269 | 0.000 | 95 | 2131571 | 10.0 | 9.97 | |
| 97 1,4-Dichlorobenzene | 146 | 21.413 | 21.413 | 0.000 | 97 | 2102097 | 10.0 | 10.3 | |
| 98 Benzyl chloride | 91 | 21.616 | 21.616 | 0.000 | 99 | 2235681 | 10.0 | 8.86 | |
| 100 n-Butylbenzene | 91 | 21.846 | 21.846 | 0.000 | 98 | 2768086 | 10.0 | 9.55 | |
| 99 Undecane | 57 | 21.905 | 21.905 | 0.000 | 93 | 1299915 | 10.0 | 7.98 | |
| 101 1,2-Dichlorobenzene | 146 | 21.948 | 21.948 | 0.000 | 98 | 1981747 | 10.0 | 10.1 | |
| 102 Dodecane | 57 | 23.435 | 23.435 | 0.000 | 97 | 1025992 | 10.0 | 7.86 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334 | 24.334 | 0.000 | 94 | 1369559 | 10.0 | 9.27 | |
| 104 Hexachlorobutadiene | 225 | 24.527 | 24.527 | 0.000 | 95 | 1361845 | 10.0 | 9.27 | |
| 105 Naphthalene | 128 | 24.773 | 24.773 | 0.000 | 99 | 2406374 | 10.0 | 8.41 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.217 | 25.217 | 0.000 | 95 | 1106173 | 10.0 | 8.67 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15CAL4w_00706 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

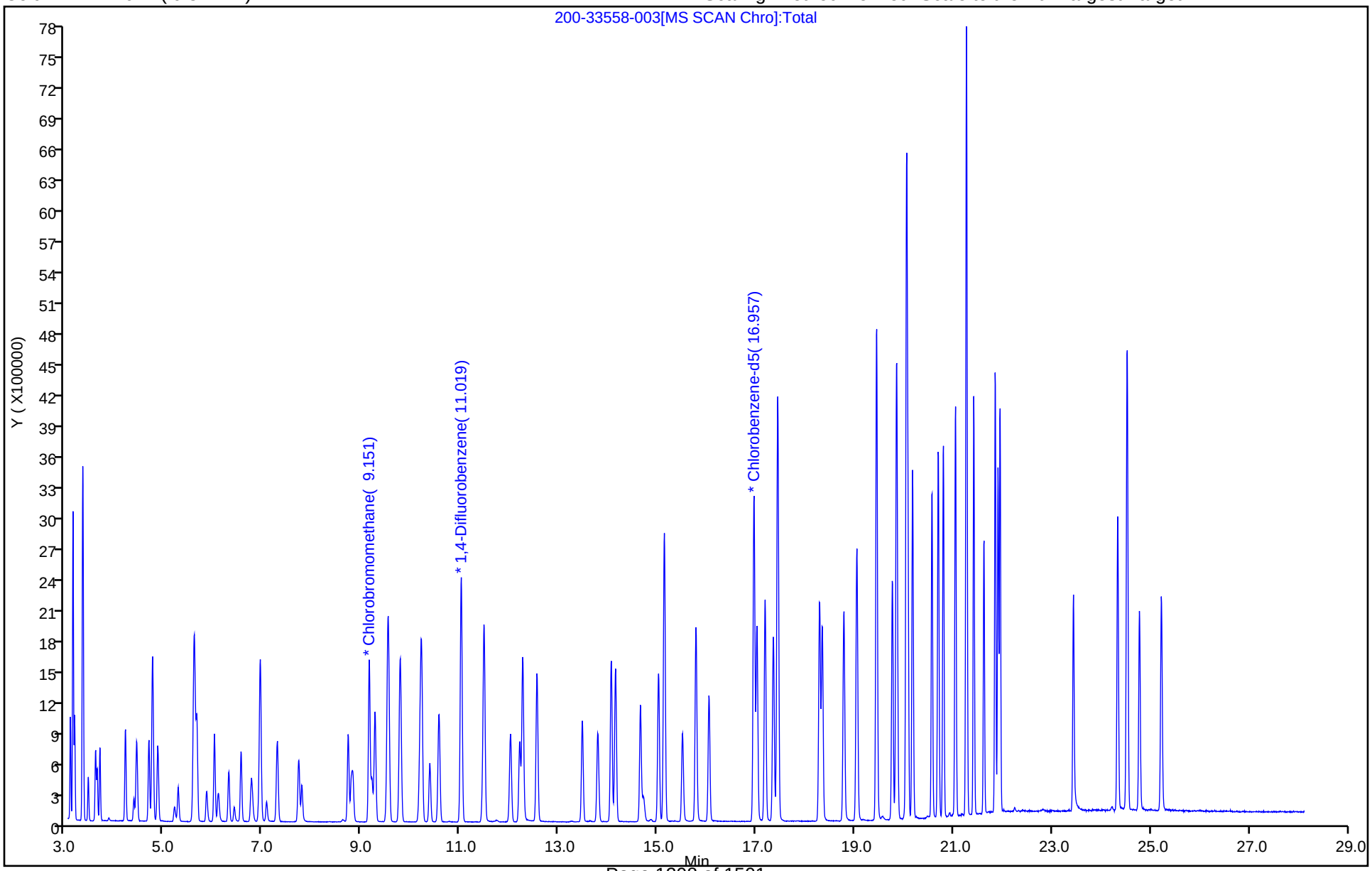
Report Date: 07-Dec-2018 15:48:39 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-003.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 15:53:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | ccvis | | | Worklist Smp#: | 3 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 04-Dec-2018 18:02:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Sample Info: 200-0033516-001
Misc. Info.: bfb
Operator ID: ert Instrument ID: CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 10:35:38 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 14:17:48

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 9 BFB | | | | | | | | | |
| * 40 Chlorobromomethane | 128 | | 10.226 | | | | 10.0 | ND | |
| * 50 1,4-Difluorobenzene | 114 | | 12.211 | | | | 10.0 | ND | |
| * 74 Chlorobenzene-d5 | 117 | | 18.247 | | | | 10.0 | ND | |

## Reagents:

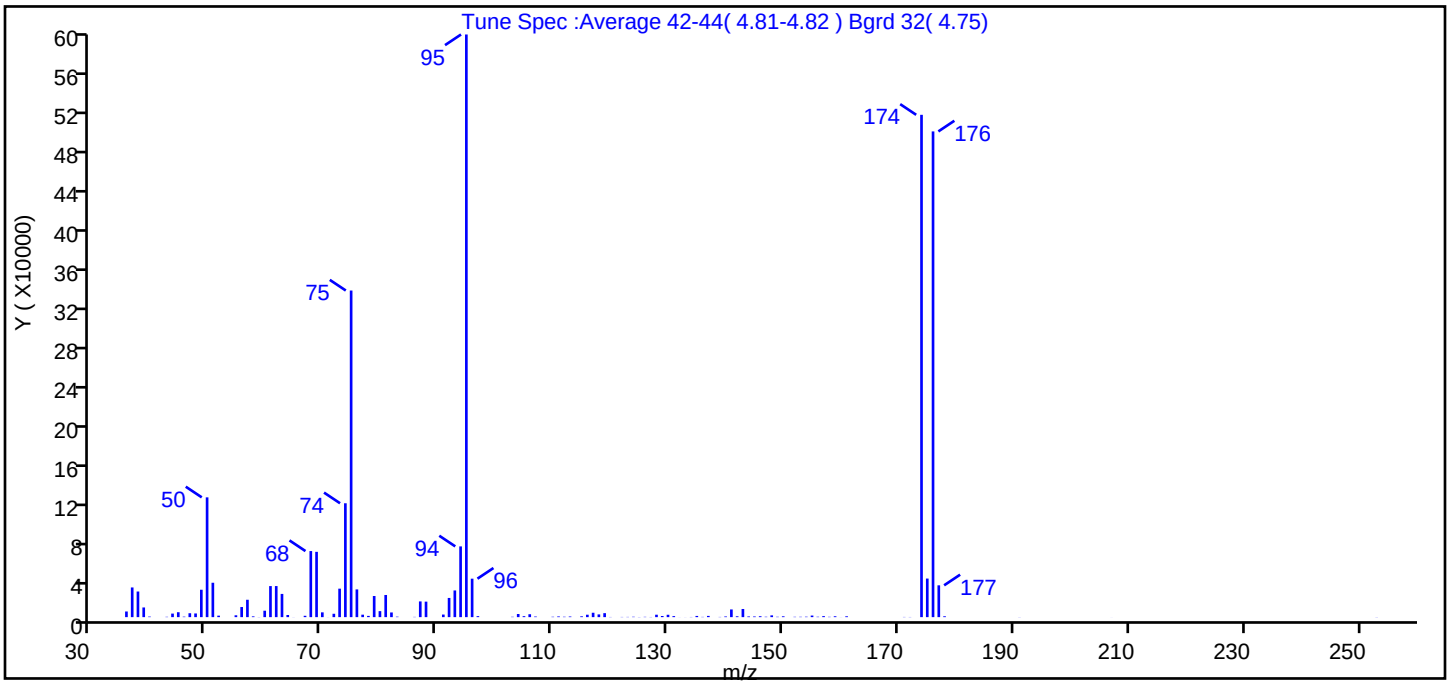
ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D
Injection Date: 04-Dec-2018 18:02:30 Instrument ID: CHC.i
Lims ID: bfb
Client ID:
Operator ID: ert ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100 Percent Relative Abundance | 100.0 |
| 50 | 8.0 to 40.0 Percent of m/e 95 | 20.6 |
| 75 | 30.0 to 66.0 Percent of m/e 95 | 56.1 |
| 96 | 5.0 to 9.0 Percent of m/e 95 | 6.6 |
| 173 | Less than 2.0 Percent of m/e 174 | 0.0 (0.0) |
| 174 | 50.0 to 120.0 Percent of m/e 95 | 86.2 |
| 175 | 4.0 to 9.0 Percent of m/e 174 | 6.6 (7.7) |
| 176 | 93.0 to 101.0 Percent of m/e 174 | 83.4 (96.7) |
| 177 | 5.0 to 9.0 Percent of m/e 176 | 5.5 (6.6) |

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D\TO15_MasterMethod_(v1)_CHC
Injection Date: 04-Dec-2018 18:02:30
Spectrum: Tune Spec :Average 42-44( 4.81-4.82 ) Bgrd 32( 4.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 116

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 5786 | 70.00 | 4888 | 110.00 | 389 | 142.00 | 861 |
| 37.00 | 30320 | 71.00 | 58 | 111.00 | 711 | 143.00 | 8325 |
| 38.00 | 26168 | 72.00 | 3449 | 112.00 | 410 | 144.00 | 697 |
| 39.00 | 9889 | 73.00 | 29088 | 113.00 | 654 | 145.00 | 678 |
| 40.00 | 565 | 74.00 | 116304 | 115.00 | 833 | 146.00 | 925 |
| 43.00 | 342 | 75.00 | 333568 | 116.00 | 2479 | 147.00 | 413 |
| 44.00 | 3637 | 76.00 | 28328 | 117.00 | 4489 | 148.00 | 1815 |
| 45.00 | 5021 | 77.00 | 2520 | 118.00 | 2793 | 149.00 | 370 |
| 46.00 | 491 | 78.00 | 1279 | 119.00 | 4073 | 150.00 | 843 |
| 47.00 | 3998 | 79.00 | 21592 | 120.00 | 180 | 152.00 | 341 |
| 48.00 | 3762 | 80.00 | 6128 | 122.00 | 206 | 153.00 | 361 |
| 49.00 | 27992 | 81.00 | 22624 | 123.00 | 234 | 154.00 | 459 |
| 50.00 | 122344 | 82.00 | 4786 | 124.00 | 392 | 155.00 | 1626 |
| 51.00 | 35128 | 83.00 | 483 | 125.00 | 150 | 156.00 | 409 |
| 52.00 | 1521 | 86.00 | 249 | 126.00 | 316 | 157.00 | 1034 |
| 55.00 | 1893 | 87.00 | 16057 | 127.00 | 168 | 158.00 | 332 |
| 56.00 | 10316 | 88.00 | 15837 | 128.00 | 2480 | 159.00 | 888 |
| 57.00 | 17752 | 91.00 | 2651 | 129.00 | 1162 | 160.00 | 53 |
| 58.00 | 785 | 92.00 | 19600 | 130.00 | 2434 | 161.00 | 865 |
| 59.00 | 127 | 93.00 | 27264 | 131.00 | 1050 | 171.00 | 201 |
| 60.00 | 6564 | 94.00 | 72256 | 132.00 | 50 | 172.00 | 170 |
| 61.00 | 31720 | 95.00 | 595072 | 133.00 | 59 | 174.00 | 513024 |
| 62.00 | 31744 | 96.00 | 39280 | 134.00 | 174 | 175.00 | 39400 |
| 63.00 | 23720 | 97.00 | 1015 | 135.00 | 1231 | 176.00 | 496064 |
| 64.00 | 2192 | 103.00 | 364 | 136.00 | 250 | 177.00 | 32496 |
| 65.00 | 73 | 104.00 | 3203 | 137.00 | 1274 | 178.00 | 871 |
| 67.00 | 1385 | 105.00 | 990 | 139.00 | 215 | 191.00 | 109 |
| 68.00 | 67480 | 106.00 | 2971 | 140.00 | 686 | 207.00 | 35 |
| 69.00 | 66696 | 107.00 | 624 | 141.00 | 7860 | 253.00 | 123 |

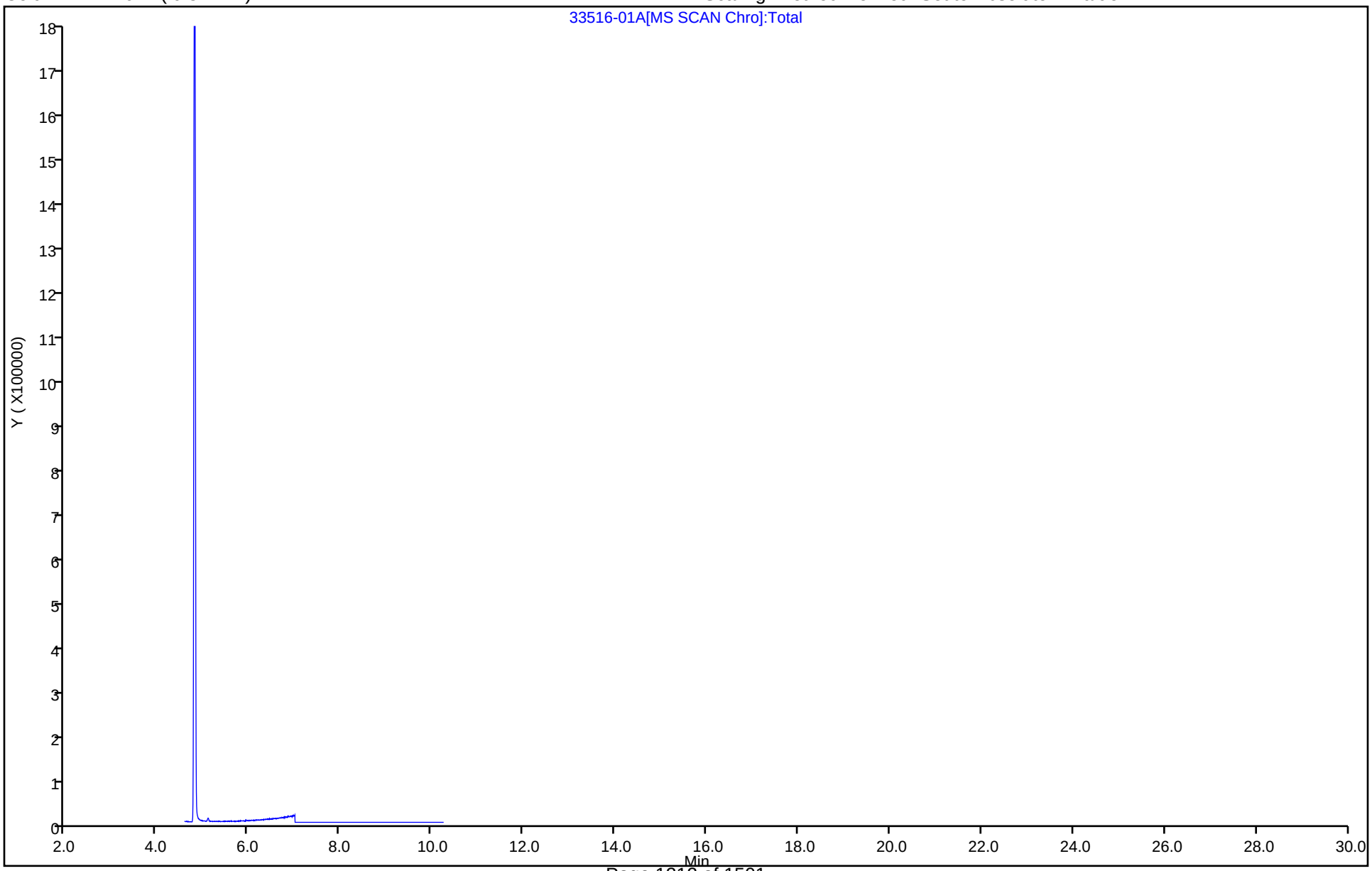
Report Date: 06-Dec-2018 10:35:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 04-Dec-2018 18:02:30 | Instrument ID: | CHC.i | Operator ID: | ert |
| Lims ID: | bfb | | | Worklist Smp#: | 1 |
| Client ID: | | | | | |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 1 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 07-Dec-2018 11:07:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Sample Info: 200-0033574-001
Misc. Info.: bfb
Operator ID: ggg Instrument ID: CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 17:27:53 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: phamvu Date: 10-Dec-2018 17:23:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 9 BFB | | | | | | | | | |
| * 40 Chlorobromomethane | 128 | | 10.225 | | | | 10.0 | ND | |
| * 50 1,4-Difluorobenzene | 114 | | 12.205 | | | | 10.0 | ND | |
| * 74 Chlorobenzene-d5 | 117 | | 18.241 | | | | 10.0 | ND | |

## Reagents:

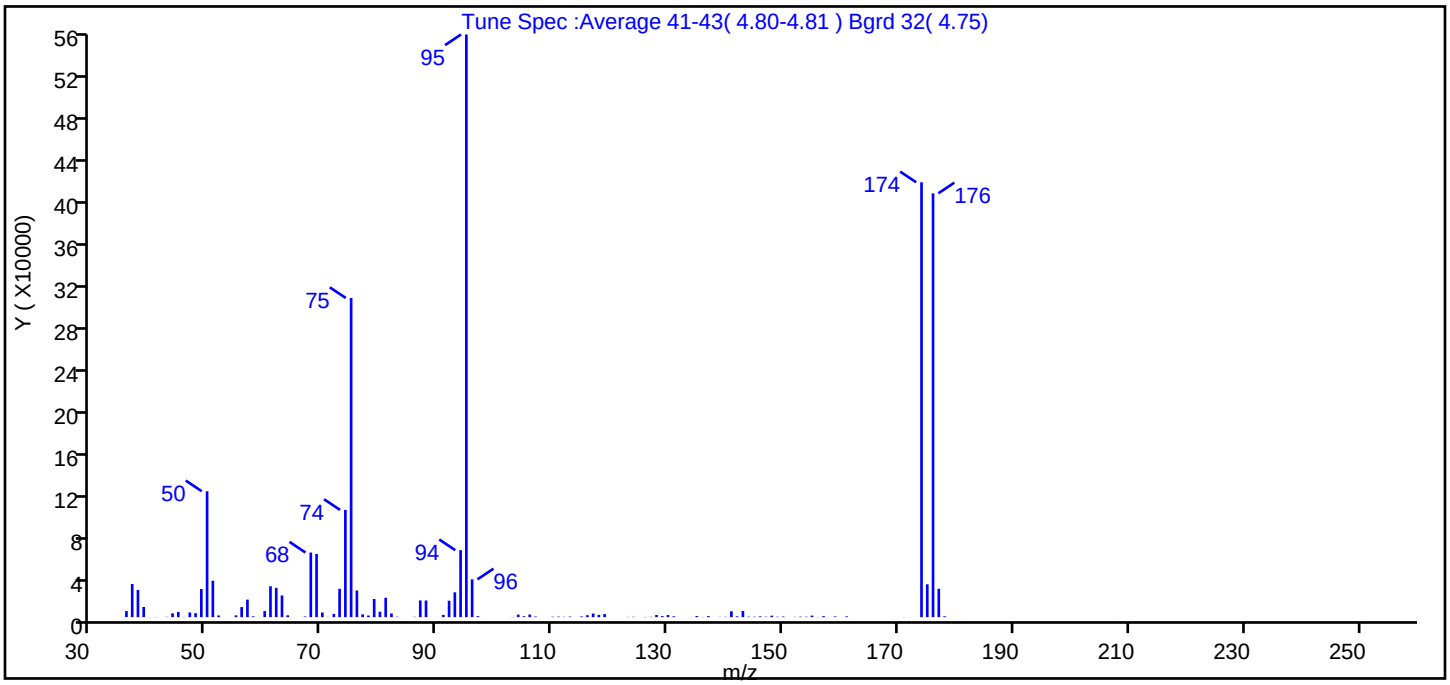
ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D | | | | |
| Injection Date: | 07-Dec-2018 11:07:30 | Instrument ID: | CHC.i | | |
| Lims ID: | bfb | | | | |
| Client ID: | | | | | |
| Operator ID: | ggg | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Tune Method: | BFB Method TO-15 | | | | |

9 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100 Percent Relative Abundance | 100.0 |
| 50 | 8.0 to 40.0 Percent of m/e 95 | 21.6 |
| 75 | 30.0 to 66.0 Percent of m/e 95 | 54.8 |
| 96 | 5.0 to 9.0 Percent of m/e 95 | 6.5 |
| 173 | Less than 2.0 Percent of m/e 174 | 0.0 (0.0) |
| 174 | 50.0 to 120.0 Percent of m/e 95 | 74.6 |
| 175 | 4.0 to 9.0 Percent of m/e 174 | 5.6 (7.6) |
| 176 | 93.0 to 101.0 Percent of m/e 174 | 72.7 (97.5) |
| 177 | 5.0 to 9.0 Percent of m/e 176 | 4.9 (6.7) |

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D\TO15_MasterMethod_(v1)_CHC.
Injection Date: 07-Dec-2018 11:07:30
Spectrum: Tune Spec :Average 41-43( 4.80-4.81 ) Bgrd 32( 4.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 112

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 5799 | 68.00 | 61456 | 105.00 | 859 | 141.00 | 5598 |
| 37.00 | 31552 | 69.00 | 60088 | 106.00 | 2470 | 142.00 | 759 |
| 38.00 | 25888 | 70.00 | 4419 | 107.00 | 590 | 143.00 | 5883 |
| 39.00 | 9676 | 71.00 | 241 | 110.00 | 379 | 144.00 | 449 |
| 40.00 | 179 | 72.00 | 3037 | 111.00 | 488 | 145.00 | 394 |
| 41.00 | 145 | 73.00 | 26920 | 112.00 | 315 | 146.00 | 755 |
| 43.00 | 278 | 74.00 | 102024 | 113.00 | 556 | 147.00 | 424 |
| 44.00 | 3605 | 75.00 | 303616 | 115.00 | 668 | 148.00 | 1387 |
| 45.00 | 4954 | 76.00 | 25360 | 116.00 | 1849 | 149.00 | 380 |
| 46.00 | 212 | 77.00 | 2631 | 117.00 | 3433 | 150.00 | 570 |
| 47.00 | 4433 | 78.00 | 1554 | 118.00 | 2133 | 152.00 | 241 |
| 48.00 | 3754 | 79.00 | 17280 | 119.00 | 2941 | 153.00 | 465 |
| 49.00 | 26760 | 80.00 | 5125 | 122.00 | 51 | 154.00 | 390 |
| 50.00 | 119776 | 81.00 | 18448 | 123.00 | 220 | 155.00 | 1443 |
| 51.00 | 34656 | 82.00 | 3506 | 124.00 | 339 | 156.00 | 142 |
| 52.00 | 1615 | 83.00 | 381 | 125.00 | 50 | 157.00 | 957 |
| 55.00 | 1694 | 86.00 | 306 | 126.00 | 218 | 158.00 | 76 |
| 56.00 | 9574 | 87.00 | 15908 | 127.00 | 307 | 159.00 | 660 |
| 57.00 | 16680 | 88.00 | 15854 | 128.00 | 2063 | 161.00 | 726 |
| 58.00 | 771 | 91.00 | 2107 | 129.00 | 973 | 171.00 | 129 |
| 59.00 | 67 | 92.00 | 15613 | 130.00 | 2008 | 172.00 | 96 |
| 60.00 | 5787 | 93.00 | 23616 | 131.00 | 788 | 174.00 | 413696 |
| 61.00 | 29368 | 94.00 | 63720 | 134.00 | 120 | 175.00 | 31256 |
| 62.00 | 27912 | 95.00 | 554304 | 135.00 | 1059 | 176.00 | 403200 |
| 63.00 | 20648 | 96.00 | 35944 | 136.00 | 159 | 177.00 | 27000 |
| 64.00 | 1792 | 97.00 | 941 | 137.00 | 989 | 178.00 | 825 |
| 65.00 | 59 | 103.00 | 177 | 139.00 | 233 | 208.00 | 64 |
| 67.00 | 601 | 104.00 | 2402 | 140.00 | 323 | 260.00 | 58 |

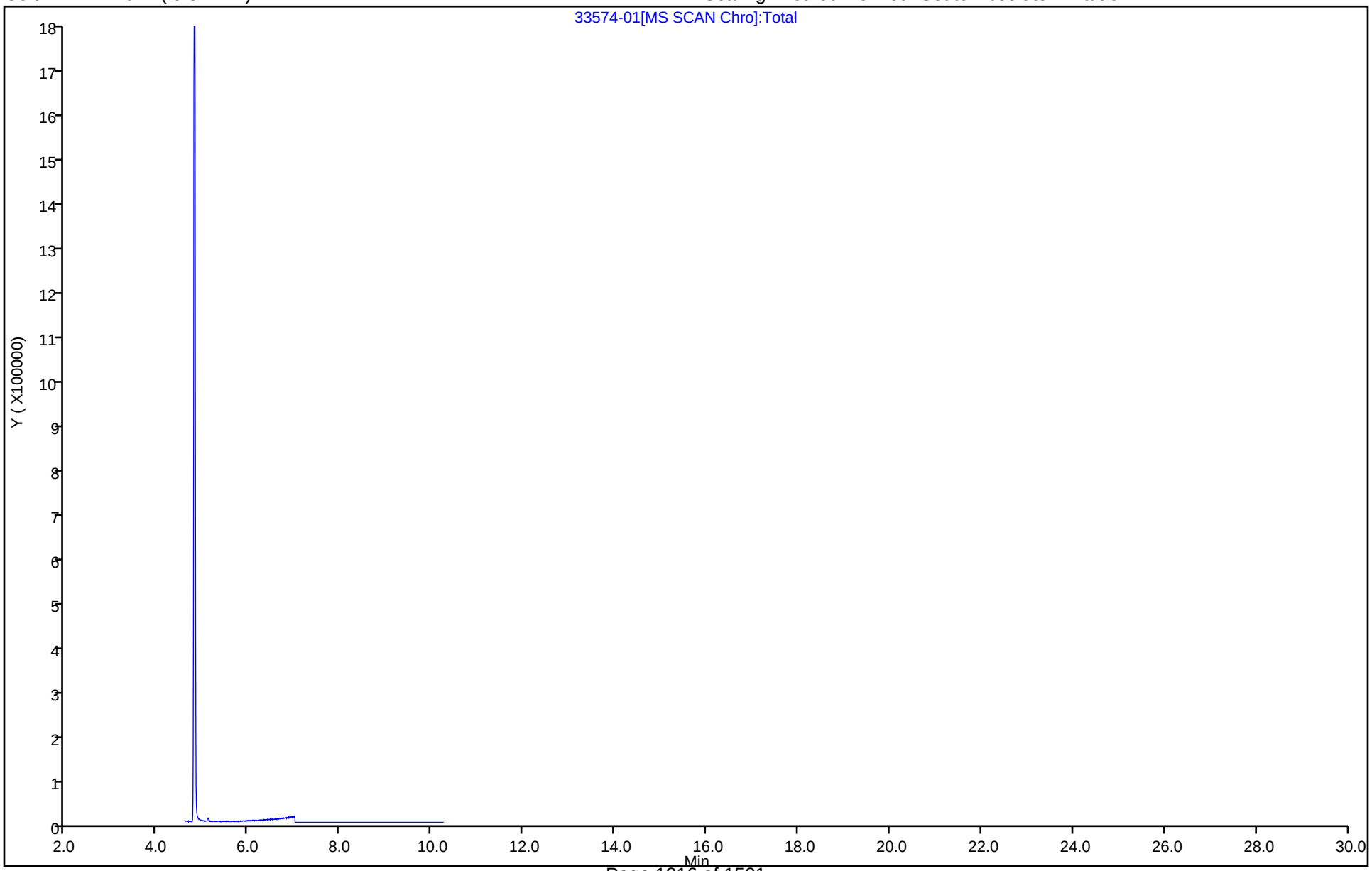
Report Date: 10-Dec-2018 17:27:53 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 11:07:30 | Instrument ID: | CHC.i | Operator ID: | ggg |
| Lims ID: | bfb | | | Worklist Smp#: | 1 |
| Client ID: | | | | | |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 1 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 27-Nov-2018 17:52:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Sample Info: 200-0033385-001
Misc. Info.: bfb
Operator ID: vtp Instrument ID: CHG.i

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Nov-2018 12:18:25 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0306

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 9 BFB | | | | | | | | | |
| * 40 Chlorobromomethane | 128 | | 9.162 | | | | 10.0 | ND | |
| * 50 1,4-Difluorobenzene | 114 | | 11.024 | | | | 10.0 | ND | |
| * 74 Chlorobenzene-d5 | 117 | | 16.962 | | | | 10.0 | ND | |

## Reagents:

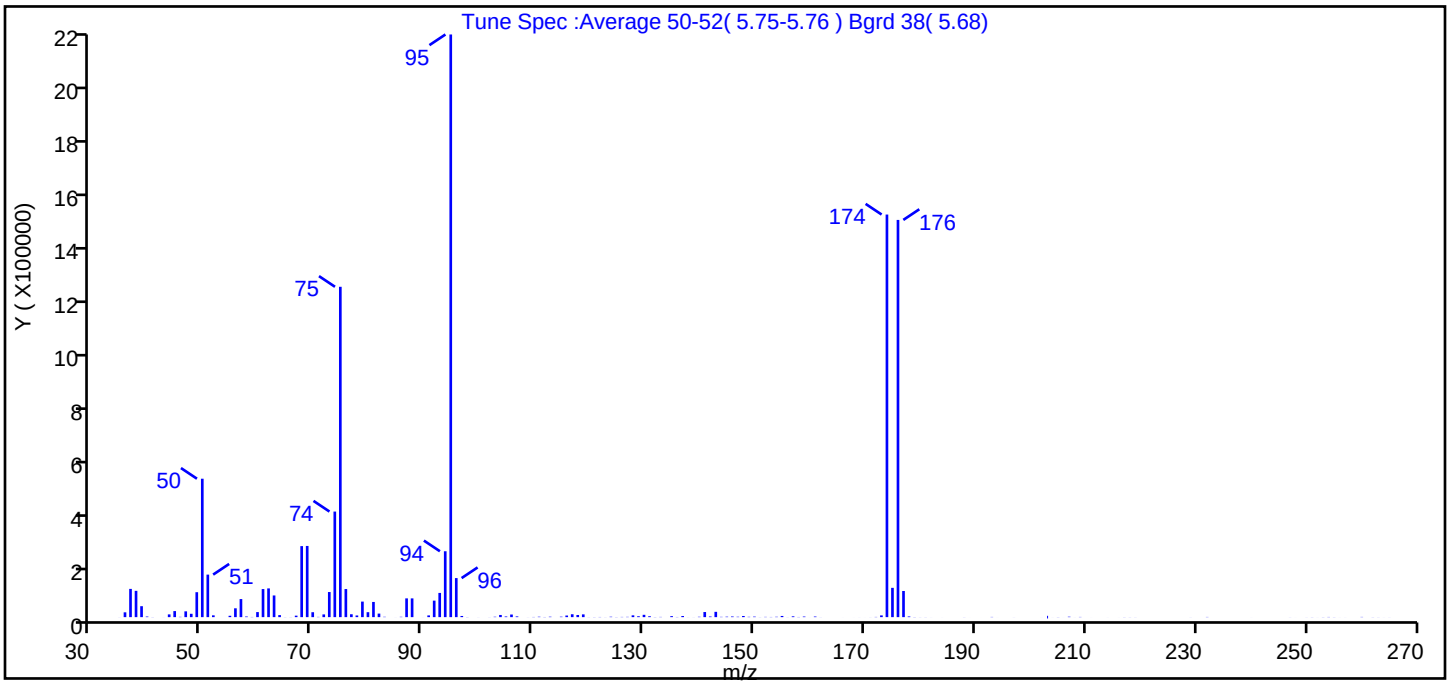
ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D
Injection Date: 27-Nov-2018 17:52:30 Instrument ID: CHG.i
Lims ID: bfb
Client ID:
Operator ID: vtp ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100 Percent Relative Abundance | 100.0 |
| 50 | 8.0 to 40.0 Percent of m/e 95 | 23.8 |
| 75 | 30.0 to 66.0 Percent of m/e 95 | 56.7 |
| 96 | 5.0 to 9.0 Percent of m/e 95 | 6.7 |
| 173 | Less than 2.0 Percent of m/e 174 | 0.3 (0.4) |
| 174 | 50.0 to 120.0 Percent of m/e 95 | 69.1 |
| 175 | 4.0 to 9.0 Percent of m/e 174 | 5.0 (7.3) |
| 176 | 93.0 to 101.0 Percent of m/e 174 | 68.2 (98.7) |
| 177 | 5.0 to 9.0 Percent of m/e 176 | 4.5 (6.6) |

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D\TO15_MasterMe
Injection Date: 27-Nov-2018 17:52:30
Spectrum: Tune Spec :Average 50-52( 5.75-5.76 ) Bgrd 38( 5.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 174

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 35.00 | 201 | 82.00 | 13216 | 132.00 | 474 | 180.00 | 222 |
| 36.00 | 17888 | 83.00 | 1250 | 133.00 | 838 | 181.00 | 260 |
| 37.00 | 104896 | 85.00 | 107 | 135.00 | 3674 | 182.00 | 96 |
| 38.00 | 97648 | 86.00 | 1252 | 136.00 | 596 | 184.00 | 71 |
| 39.00 | 40680 | 87.00 | 69680 | 137.00 | 4153 | 188.00 | 216 |
| 40.00 | 2253 | 88.00 | 69664 | 138.00 | 176 | 189.00 | 41 |
| 41.00 | 351 | 90.00 | 103 | 139.00 | 162 | 191.00 | 22 |
| 43.00 | 124 | 91.00 | 6405 | 140.00 | 1326 | 193.00 | 787 |
| 44.00 | 10205 | 92.00 | 61320 | 141.00 | 18976 | 194.00 | 48 |
| 45.00 | 22480 | 93.00 | 89936 | 142.00 | 2306 | 197.00 | 144 |
| 46.00 | 1055 | 94.00 | 244672 | 143.00 | 19728 | 202.00 | 63 |
| 47.00 | 21520 | 95.00 | 2163712 | 144.00 | 1071 | 203.00 | 5 |
| 48.00 | 12455 | 96.00 | 145024 | 145.00 | 1714 | 204.00 | 90 |
| 49.00 | 92624 | 97.00 | 4356 | 146.00 | 2388 | 205.00 | 370 |
| 50.00 | 514048 | 98.00 | 394 | 147.00 | 1443 | 206.00 | 52 |
| 51.00 | 157952 | 100.00 | 147 | 148.00 | 4248 | 207.00 | 1554 |
| 52.00 | 6699 | 102.00 | 216 | 149.00 | 1170 | 208.00 | 93 |
| 55.00 | 5027 | 103.00 | 1442 | 150.00 | 1944 | 209.00 | 759 |
| 56.00 | 32864 | 104.00 | 8069 | 151.00 | 267 | 211.00 | 50 |
| 57.00 | 67120 | 105.00 | 2483 | 152.00 | 957 | 214.00 | 85 |
| 58.00 | 2373 | 106.00 | 9724 | 153.00 | 657 | 216.00 | 62 |
| 59.00 | 671 | 107.00 | 2663 | 154.00 | 1363 | 217.00 | 317 |
| 60.00 | 18776 | 109.00 | 165 | 155.00 | 4390 | 218.00 | 263 |
| 61.00 | 104256 | 110.00 | 677 | 156.00 | 210 | 219.00 | 199 |
| 62.00 | 106704 | 111.00 | 1547 | 157.00 | 2981 | 229.00 | 171 |
| 63.00 | 80512 | 112.00 | 568 | 158.00 | 639 | 232.00 | 735 |
| 64.00 | 7603 | 113.00 | 1619 | 159.00 | 2194 | 240.00 | 58 |
| 65.00 | 295 | 115.00 | 1721 | 160.00 | 76 | 247.00 | 181 |
| 66.00 | 277 | 116.00 | 5987 | 161.00 | 2234 | 248.00 | 51 |
| 67.00 | 5538 | 117.00 | 10749 | 162.00 | 204 | 250.00 | 171 |
| 68.00 | 263744 | 118.00 | 8029 | 163.00 | 16 | 251.00 | 295 |
| 69.00 | 264384 | 119.00 | 10270 | 166.00 | 48 | 252.00 | 104 |
| 70.00 | 18304 | 120.00 | 262 | 168.00 | 56 | 253.00 | 353 |

Report Date: 28-Nov-2018 12:18:26 Chrom Revision: 2.3 21-Nov-2018 13:56:44
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D\TO15_MasterMe
Injection Date: 27-Nov-2018 17:52:30
Spectrum: Tune Spec :Average 50-52( 5.75-5.76 ) Bgrd 38( 5.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 174

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 901 | 121.00 | 417 | 169.00 | 107 | 254.00 | 710 |
| 72.00 | 10172 | 122.00 | 648 | 170.00 | 51 | 255.00 | 313 |
| 73.00 | 93224 | 123.00 | 230 | 171.00 | 164 | 256.00 | 84 |
| 74.00 | 392064 | 124.00 | 1515 | 172.00 | 796 | 257.00 | 102 |
| 75.00 | 1226752 | 125.00 | 434 | 173.00 | 6446 | 260.00 | 828 |
| 76.00 | 104360 | 126.00 | 815 | 174.00 | 1495040 | 262.00 | 300 |
| 77.00 | 10734 | 127.00 | 1051 | 175.00 | 108800 | 263.00 | 216 |
| 78.00 | 6217 | 128.00 | 6677 | 176.00 | 1475072 | 264.00 | 104 |
| 79.00 | 57736 | 129.00 | 3238 | 177.00 | 97080 | 265.00 | 155 |
| 80.00 | 18376 | 130.00 | 8654 | 178.00 | 2463 | | |
| 81.00 | 56408 | 131.00 | 3292 | 179.00 | 479 | | |

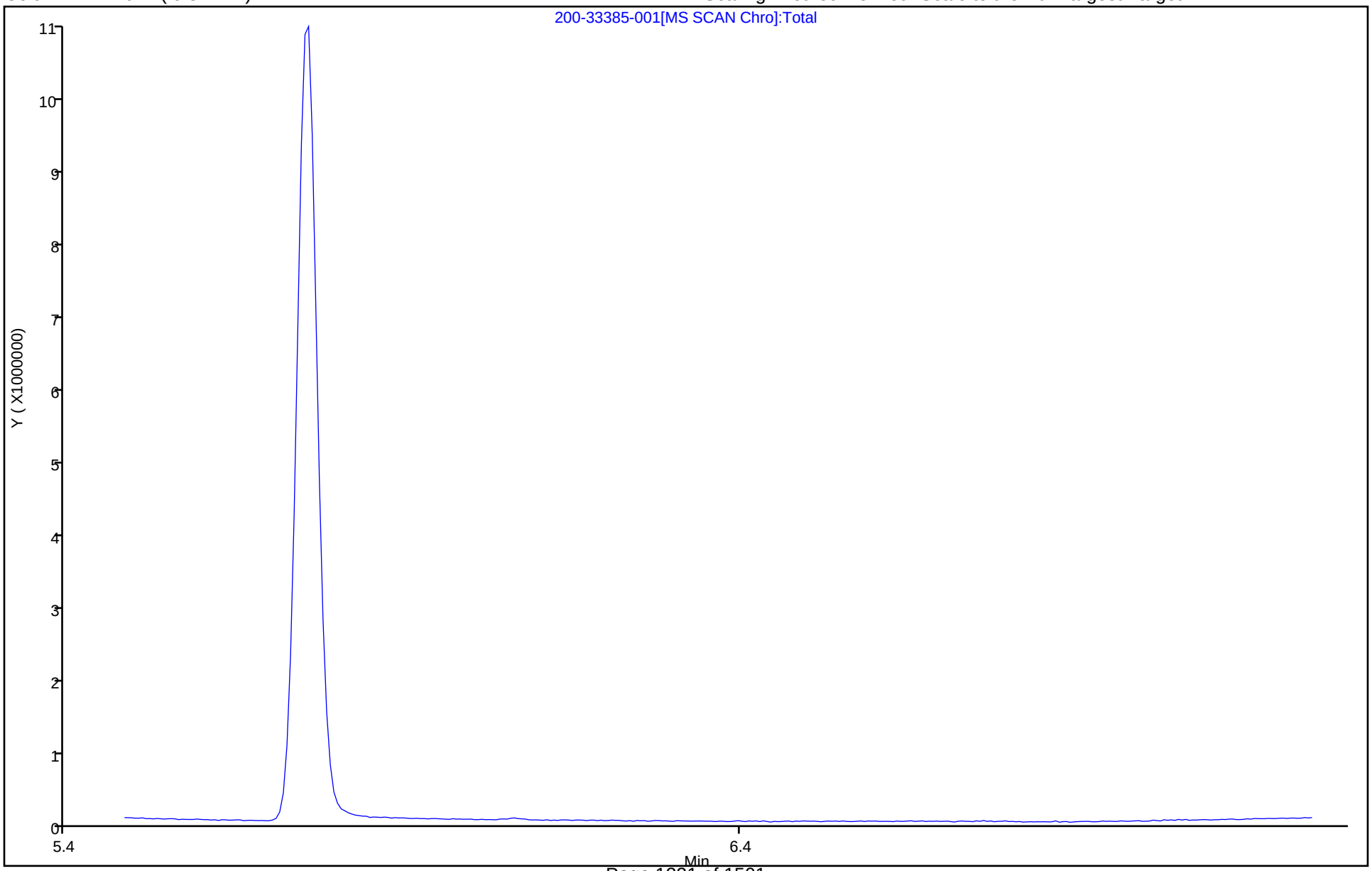
Report Date: 28-Nov-2018 12:18:26 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Nov-2018 17:52:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | bfb | | | Worklist Smp#: | 1 |
| Client ID: | | | | | |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 1 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D | | | | |
| Lims ID: | bfb | | | | |
| Client ID: | | | | | |
| Sample Type: | BFB | | | | |
| Inject. Date: | 05-Dec-2018 14:11:30 | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | | |
| Sample Info: | 200-0033531-001 | | | | |
| Misc. Info.: | bfb | | | | |
| Operator ID: | ert | Instrument ID: | CHG.i | | |
| Method: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m | | | | |
| Limit Group: | AI_TO15_ICAL | | | | |
| Last Update: | 06-Dec-2018 12:51:45 | Calib Date: | 28-Nov-2018 02:15:30 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D | | | | |
| Column 1 : | RTX-624 ( 0.32 mm) | | Det: MS SCAN | | |
| Process Host: | CTX0323 | | | | |
| First Level Reviewer: bunmaa | | Date: | 06-Dec-2018 12:51:45 | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 9 BFB | | | | | | | | | |
| * 40 Chlorobromomethane | 128 | | 9.152 | | | | 10.0 | ND | |
| * 50 1,4-Difluorobenzene | 114 | | 11.019 | | | | 10.0 | ND | |
| * 74 Chlorobenzene-d5 | 117 | | 16.957 | | | | 10.0 | ND | |

## Reagents:

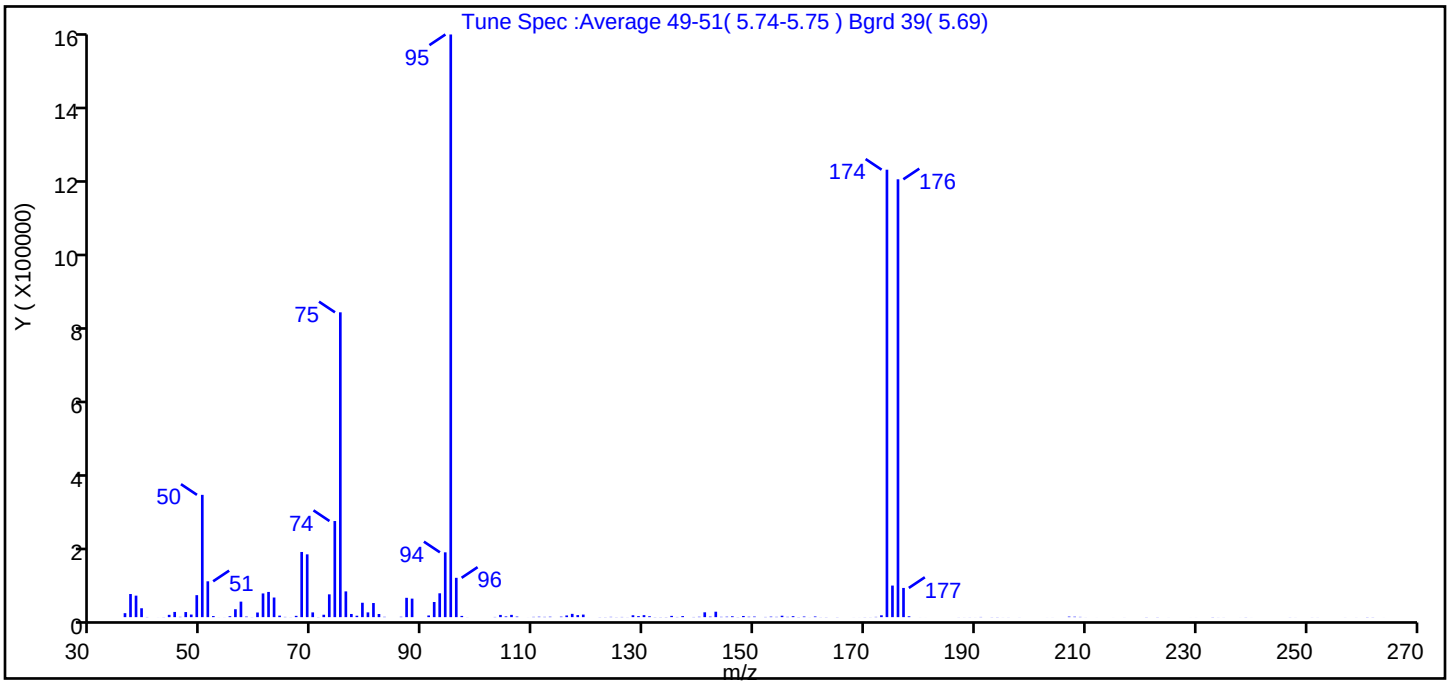
ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D
Injection Date: 05-Dec-2018 14:11:30 Instrument ID: CHG.i
Lims ID: bfb
Client ID:
Operator ID: ert ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100 Percent Relative Abundance | 100.0 |
| 50 | 8.0 to 40.0 Percent of m/e 95 | 21.0 |
| 75 | 30.0 to 66.0 Percent of m/e 95 | 52.3 |
| 96 | 5.0 to 9.0 Percent of m/e 95 | 6.7 |
| 173 | Less than 2.0 Percent of m/e 174 | 0.3 (0.4) |
| 174 | 50.0 to 120.0 Percent of m/e 95 | 76.8 |
| 175 | 4.0 to 9.0 Percent of m/e 174 | 5.4 (7.1) |
| 176 | 93.0 to 101.0 Percent of m/e 174 | 75.1 (97.9) |
| 177 | 5.0 to 9.0 Percent of m/e 176 | 5.0 (6.7) |

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D\TO15_MasterMethod_(v1)_
Injection Date: 05-Dec-2018 14:11:30
Spectrum: Tune Spec :Average 49-51( 5.74-5.75 ) Bgrd 39( 5.69)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 168

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 10798 | 79.00 | 39192 | 132.00 | 358 | 178.00 | 2221 |
| 37.00 | 62944 | 80.00 | 12941 | 133.00 | 356 | 180.00 | 83 |
| 38.00 | 58520 | 81.00 | 38440 | 134.00 | 386 | 181.00 | 44 |
| 39.00 | 24216 | 82.00 | 8549 | 135.00 | 3459 | 187.00 | 170 |
| 40.00 | 465 | 83.00 | 862 | 136.00 | 478 | 188.00 | 120 |
| 42.00 | 85 | 86.00 | 1019 | 137.00 | 2849 | 189.00 | 192 |
| 43.00 | 280 | 87.00 | 52624 | 139.00 | 472 | 190.00 | 104 |
| 44.00 | 6277 | 88.00 | 50416 | 140.00 | 979 | 191.00 | 529 |
| 45.00 | 14158 | 91.00 | 4493 | 141.00 | 13165 | 193.00 | 290 |
| 46.00 | 813 | 92.00 | 41216 | 142.00 | 1422 | 194.00 | 340 |
| 47.00 | 13859 | 93.00 | 64912 | 143.00 | 14805 | 195.00 | 112 |
| 48.00 | 7045 | 94.00 | 176448 | 144.00 | 817 | 196.00 | 154 |
| 49.00 | 59864 | 95.00 | 1586176 | 145.00 | 1200 | 198.00 | 123 |
| 50.00 | 332928 | 96.00 | 107040 | 146.00 | 2361 | 203.00 | 76 |
| 51.00 | 97576 | 97.00 | 3388 | 147.00 | 338 | 204.00 | 90 |
| 52.00 | 2886 | 98.00 | 137 | 148.00 | 3155 | 207.00 | 1450 |
| 53.00 | 111 | 103.00 | 529 | 149.00 | 1044 | 208.00 | 1164 |
| 54.00 | 118 | 104.00 | 6041 | 150.00 | 1570 | 209.00 | 677 |
| 55.00 | 2548 | 105.00 | 1939 | 151.00 | 14 | 210.00 | 108 |
| 56.00 | 21536 | 106.00 | 6188 | 152.00 | 561 | 212.00 | 53 |
| 57.00 | 42224 | 107.00 | 1506 | 153.00 | 1398 | 215.00 | 50 |
| 58.00 | 1512 | 109.00 | 70 | 154.00 | 776 | 217.00 | 95 |
| 59.00 | 236 | 110.00 | 750 | 155.00 | 3852 | 221.00 | 335 |
| 60.00 | 12614 | 111.00 | 1151 | 156.00 | 804 | 223.00 | 322 |
| 61.00 | 64536 | 112.00 | 748 | 157.00 | 2612 | 225.00 | 70 |
| 62.00 | 68624 | 113.00 | 1153 | 158.00 | 393 | 229.00 | 56 |
| 63.00 | 53408 | 115.00 | 1353 | 159.00 | 1685 | 230.00 | 64 |
| 64.00 | 4156 | 116.00 | 4592 | 160.00 | 119 | 233.00 | 384 |
| 65.00 | 630 | 117.00 | 8950 | 161.00 | 1813 | 234.00 | 137 |
| 66.00 | 193 | 118.00 | 5525 | 162.00 | 223 | 235.00 | 133 |
| 67.00 | 3558 | 119.00 | 6971 | 163.00 | 311 | 238.00 | 75 |
| 68.00 | 177408 | 120.00 | 43 | 165.00 | 281 | 239.00 | 267 |
| 69.00 | 170944 | 122.00 | 290 | 168.00 | 86 | 240.00 | 62 |

Report Date: 06-Dec-2018 12:51:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D\TO15_MasterMethod_(v1)_
Injection Date: 05-Dec-2018 14:11:30
Spectrum: Tune Spec :Average 49-51( 5.74-5.75 ) Bgrd 39( 5.69)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 168

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 70.00 | 12946 | 123.00 | 309 | 169.00 | 79 | 247.00 | 191 |
| 71.00 | 334 | 124.00 | 760 | 170.00 | 260 | 248.00 | 101 |
| 72.00 | 6545 | 125.00 | 310 | 171.00 | 192 | 251.00 | 138 |
| 73.00 | 62056 | 126.00 | 541 | 172.00 | 696 | 252.00 | 115 |
| 74.00 | 261632 | 127.00 | 204 | 173.00 | 5001 | 257.00 | 111 |
| 75.00 | 829824 | 128.00 | 5137 | 174.00 | 1218048 | 259.00 | 111 |
| 76.00 | 70112 | 129.00 | 2741 | 175.00 | 85960 | 261.00 | 397 |
| 77.00 | 8618 | 130.00 | 5428 | 176.00 | 1191936 | 262.00 | 292 |
| 78.00 | 3863 | 131.00 | 2389 | 177.00 | 79504 | 264.00 | 50 |

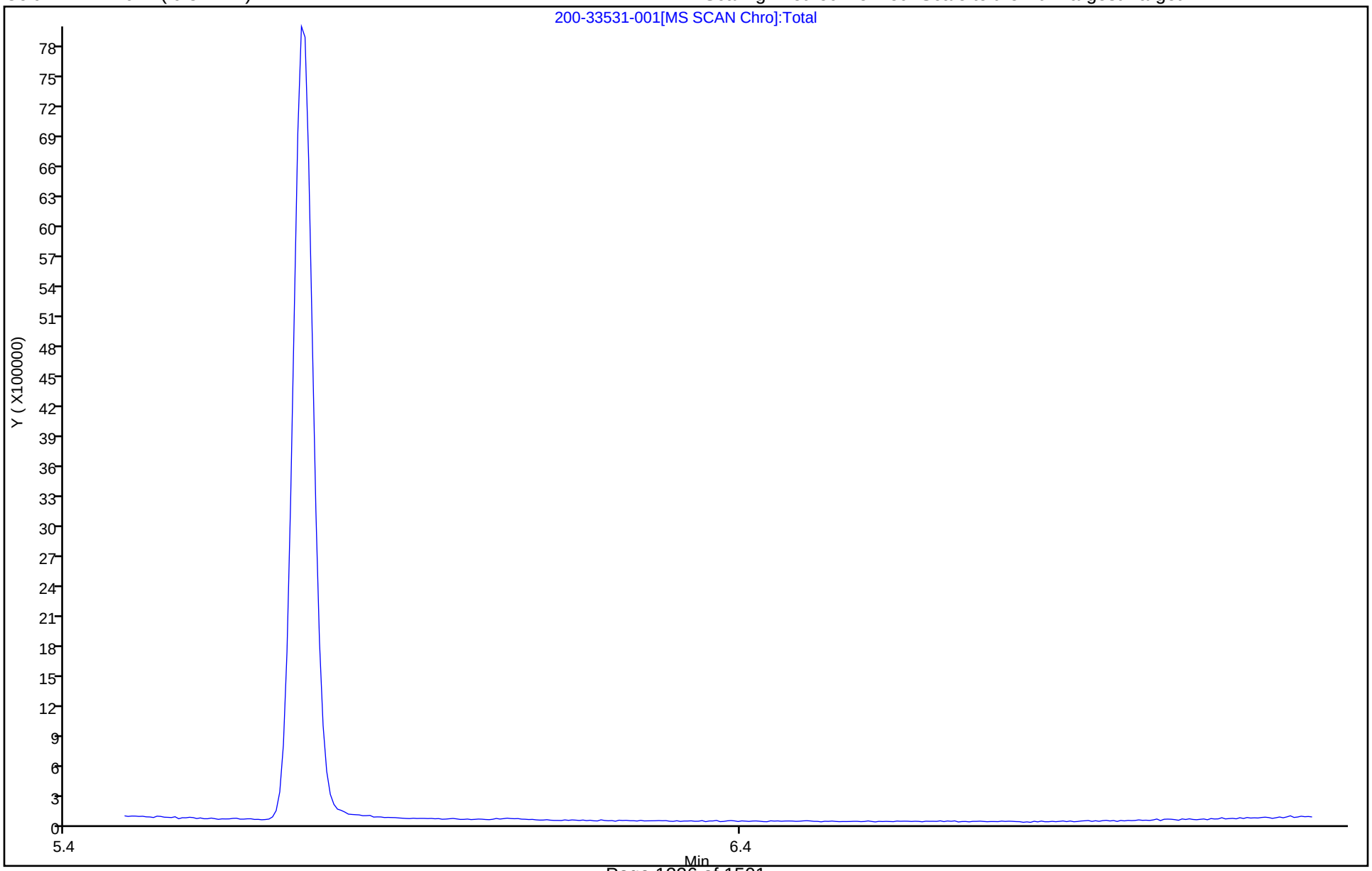
Report Date: 06-Dec-2018 12:51:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 14:11:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | bfb | | | Worklist Smp#: | 1 |
| Client ID: | | | | | |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 1 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D | | | | |
| Lims ID: | bfb | | | | |
| Client ID: | | | | | |
| Sample Type: | BFB | | | | |
| Inject. Date: | 06-Dec-2018 14:19:30 | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | | |
| Sample Info: | 200-0033558-001 | | | | |
| Misc. Info.: | bfb | | | | |
| Operator ID: | ert | Instrument ID: | CHG.i | | |
| Method: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m | | | | |
| Limit Group: | AI_TO15_ICAL | | | | |
| Last Update: | 07-Dec-2018 15:04:07 | Calib Date: | 28-Nov-2018 02:15:30 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D | | | | |
| Column 1 : | RTX-624 ( 0.32 mm) | | Det: MS SCAN | | |
| Process Host: | CTX0310 | | | | |
| First Level Reviewer: puangmaleek | | Date: | 07-Dec-2018 15:04:06 | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 9 BFB | | | | | | | | | |
| * 40 Chlorobromomethane | 128 | | 9.151 | | | | 10.0 | ND | |
| * 50 1,4-Difluorobenzene | 114 | | 11.019 | | | | 10.0 | ND | |
| * 74 Chlorobenzene-d5 | 117 | | 16.957 | | | | 10.0 | ND | |

## Reagents:

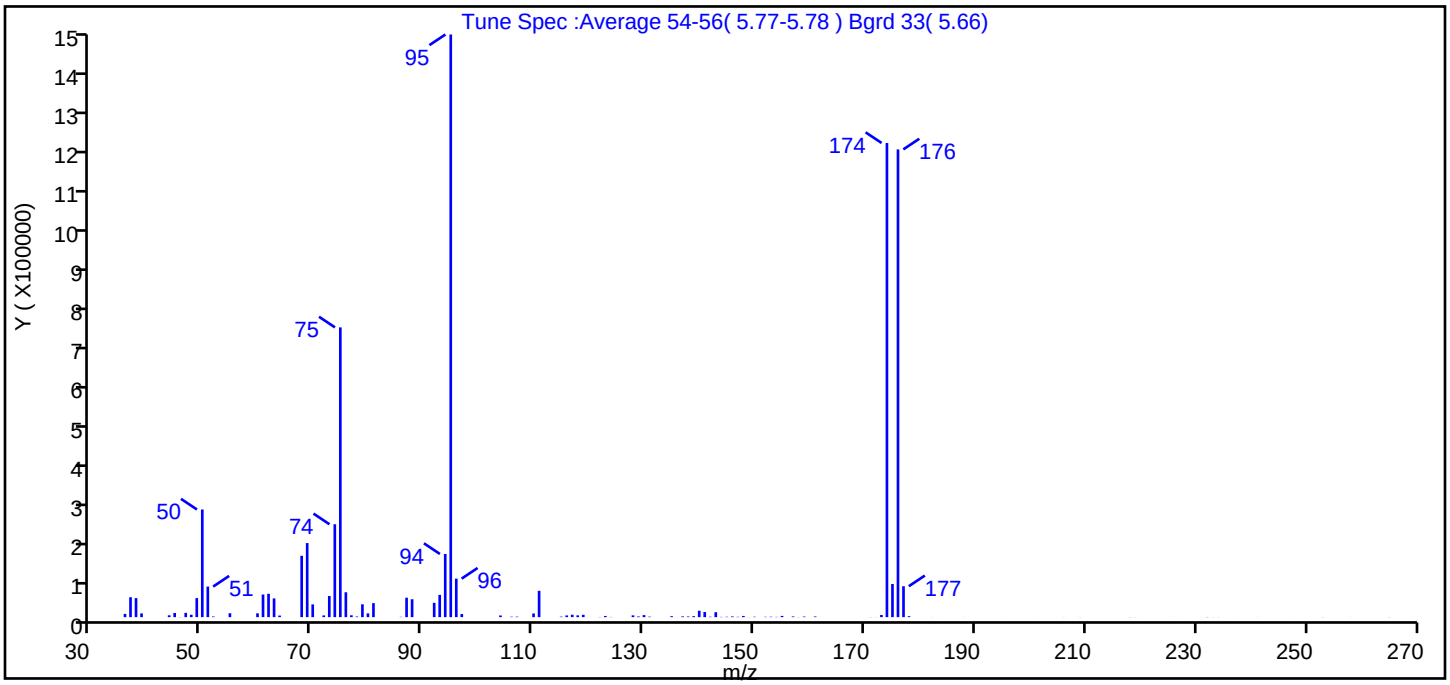
ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D | | | | |
| Injection Date: | 06-Dec-2018 14:19:30 | Instrument ID: | CHG.i | | |
| Lims ID: | bfb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Tune Method: | BFB Method TO-15 | | | | |

9 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100 Percent Relative Abundance | 100.0 |
| 50 | 8.0 to 40.0 Percent of m/e 95 | 18.5 |
| 75 | 30.0 to 66.0 Percent of m/e 95 | 49.7 |
| 96 | 5.0 to 9.0 Percent of m/e 95 | 6.6 |
| 173 | Less than 2.0 Percent of m/e 174 | 0.4 (0.4) |
| 174 | 50.0 to 120.0 Percent of m/e 95 | 81.4 |
| 175 | 4.0 to 9.0 Percent of m/e 174 | 5.7 (7.0) |
| 176 | 93.0 to 101.0 Percent of m/e 174 | 80.3 (98.6) |
| 177 | 5.0 to 9.0 Percent of m/e 176 | 5.3 (6.6) |

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D\TO15_MasterMethod_(v1)_
Injection Date: 06-Dec-2018 14:19:30
Spectrum: Tune Spec :Average 54-56( 5.77-5.78 ) Bgrd 33( 5.66)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 120

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 8079 | 80.00 | 9265 | 136.00 | 100 | 176.00 | 1158656 |
| 37.00 | 49272 | 81.00 | 34712 | 137.00 | 1830 | 177.00 | 76576 |
| 38.00 | 47152 | 86.00 | 732 | 138.00 | 1548 | 178.00 | 2293 |
| 39.00 | 9296 | 87.00 | 48152 | 139.00 | 2417 | 181.00 | 49 |
| 44.00 | 4624 | 88.00 | 44336 | 140.00 | 15897 | 182.00 | 118 |
| 45.00 | 10280 | 90.00 | 19 | 141.00 | 12643 | 184.00 | 57 |
| 46.00 | 346 | 92.00 | 35464 | 142.00 | 1017 | 188.00 | 101 |
| 47.00 | 10677 | 93.00 | 55152 | 143.00 | 12239 | 190.00 | 63 |
| 48.00 | 5904 | 94.00 | 156480 | 144.00 | 621 | 195.00 | 58 |
| 49.00 | 47184 | 95.00 | 1443328 | 145.00 | 946 | 201.00 | 64 |
| 50.00 | 266624 | 96.00 | 95344 | 146.00 | 1733 | 206.00 | 181 |
| 51.00 | 75704 | 97.00 | 7693 | 147.00 | 834 | 209.00 | 174 |
| 52.00 | 1595 | 104.00 | 4136 | 148.00 | 2958 | 218.00 | 300 |
| 55.00 | 9642 | 106.00 | 1077 | 149.00 | 157 | 219.00 | 149 |
| 60.00 | 9457 | 107.00 | 1253 | 150.00 | 972 | 222.00 | 63 |
| 61.00 | 56088 | 110.00 | 9071 | 152.00 | 813 | 225.00 | 73 |
| 62.00 | 57808 | 111.00 | 65272 | 153.00 | 1045 | 226.00 | 69 |
| 63.00 | 46408 | 115.00 | 1241 | 154.00 | 635 | 227.00 | 52 |
| 64.00 | 3938 | 116.00 | 4227 | 155.00 | 3076 | 231.00 | 58 |
| 68.00 | 151936 | 117.00 | 5927 | 157.00 | 1697 | 232.00 | 432 |
| 69.00 | 183488 | 118.00 | 4413 | 158.00 | 293 | 233.00 | 188 |
| 70.00 | 31536 | 119.00 | 5810 | 159.00 | 1440 | 234.00 | 195 |
| 72.00 | 4295 | 122.00 | 401 | 161.00 | 1639 | 237.00 | 64 |
| 73.00 | 52376 | 123.00 | 2934 | 162.00 | 47 | 241.00 | 108 |
| 74.00 | 230080 | 124.00 | 446 | 170.00 | 9 | 248.00 | 60 |
| 75.00 | 717760 | 128.00 | 4441 | 171.00 | 319 | 253.00 | 259 |
| 76.00 | 61624 | 129.00 | 1696 | 172.00 | 214 | 255.00 | 36 |
| 77.00 | 4552 | 130.00 | 5091 | 173.00 | 5265 | 258.00 | 90 |
| 78.00 | 1538 | 131.00 | 1156 | 174.00 | 1174528 | 261.00 | 34 |
| 79.00 | 31768 | 135.00 | 2275 | 175.00 | 82056 | 265.00 | 272 |

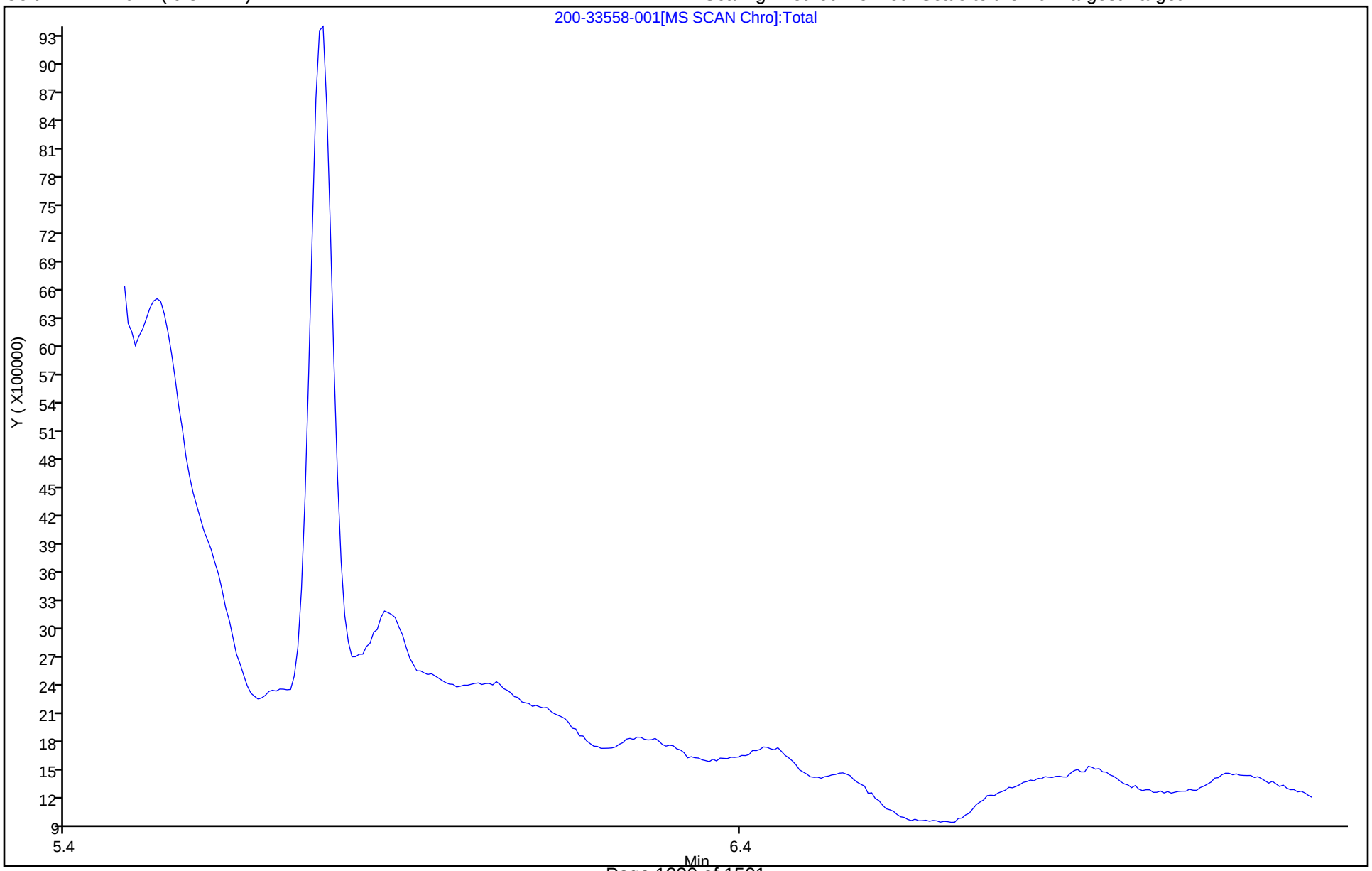
Report Date: 07-Dec-2018 15:04:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 14:19:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | bfb | | | Worklist Smp#: | 1 |
| Client ID: | | | | | |
| Injection Vol: | 200.0 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 1 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137819/5

Matrix: Air | Lab File ID: 200-33531-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/05/2018 17:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.50 | U | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.50 | U | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 0.50 | U | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.20 | U | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 5.0 | U | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.20 | U | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.50 | U | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.20 | U | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.035 | U | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.20 | U | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137819/5

Matrix: Air | Lab File ID: 200-33531-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/05/2018 17:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.20 | U | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137819/5

Matrix: Air  Lab File ID: 200-33531-005.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/05/2018 17:29

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137819/5

Matrix: Air | Lab File ID: 200-33531-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/05/2018 17:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | U | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.0 | U | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 1.2 | U | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.1 | U | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 12 | U | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 0.70 | U | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.5 | U | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.69 | U | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.22 | U | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.64 | U | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137819/5

Matrix: Air | Lab File ID: 200-33531-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/05/2018 17:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 0.75 | U | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137819/5

Matrix: Air  Lab File ID: 200-33531-005.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/05/2018 17:29

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 05-Dec-2018 17:29:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-005
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 13:09:01 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: bunmaa Date: 06-Dec-2018 13:09:01

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.096 | -0.006 | 78 | 4907 | | 0.1075 | |
| 2 Dichlorodifluoromethane | 85 | 3.149 | 3.155 | -0.006 | 99 | 8367 | | 0.0339 | |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | | ND | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.353 | | | | | ND | |
| 5 Chloromethane | 50 | | 3.465 | | | | | ND | U |
| 6 Butane | 43 | | 3.604 | | | | | ND | U |
| 7 Vinyl chloride | 62 | | 3.647 | | | | | ND | U |
| 8 Butadiene | 54 | | 3.711 | | | | | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | | ND | U |
| 12 2-Methylbutane | 43 | | 4.444 | | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | | ND | U |
| 14 Trichlorofluoromethane | 101 | | 4.760 | | | | | ND | |
| 16 Pentane | 43 | | 4.866 | | | | | ND | |
| 17 Ethanol | 45 | 5.241 | 5.241 | -0.005 | 77 | 2477 | | 0.1853 | M |
| 18 Ethyl ether | 59 | | 5.327 | | | | | ND | U |
| 19 Acrolein | 56 | | 5.594 | | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.605 | | | | | ND | U |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | | ND | U |
| 22 Acetone | 43 | 5.883 | 5.856 | 0.027 | 97 | 56481 | | 1.10 | |
| 23 Carbon disulfide | 76 | | 6.017 | | | | | ND | Ua |
| 24 Isopropyl alcohol | 45 | | 6.097 | | | | | ND | U |
| 25 3-Chloro-1-propene | 41 | | 6.305 | | | | | ND | U |
| 26 Acetonitrile | 41 | | 6.418 | | | | | ND | U |
| 27 Methylene Chloride | 49 | | 6.557 | | | | | ND | |
| 28 2-Methyl-2-propanol | 59 | | 6.771 | | | | | ND | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.948 | | | | | ND | U |
| 29 Methyl tert-butyl ether | 73 | | 6.980 | | | | | ND | U |
| 32 Acrylonitrile | 53 | | 7.070 | | | | | ND | U |
| 33 Hexane | 57 | | 7.279 | | | | | ND | MU |
| 34 1,1-Dichloroethane | 63 | | 7.729 | | | | | ND | U |
| 35 Vinyl acetate | 43 | | 7.787 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 37 cis-1,2-Dichloroethene | 96 | | 8.724 | | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.809 | 8.793 | 0.016 | 94 | 2016 | | 0.1092 | |
| 39 Ethyl acetate | 88 | | 8.830 | | | | | ND | |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.152 | -0.006 | 79 | 661137 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.210 | | | | | ND | U |
| 42 Chloroform | 83 | | 9.269 | | | | | ND | |
| 43 Cyclohexane | 84 | | 9.531 | | | | | ND | |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | | ND | U |
| S 30 1,2-Dichloroethene, Total | 61 | | 9.665 | | | | | ND | |
| 45 Carbon tetrachloride | 117 | | 9.783 | | | | | ND | |
| 46 Isooctane | 57 | | 10.195 | | | | | ND | |
| 47 Benzene | 78 | | 10.216 | | | | | ND | U |
| 48 1,2-Dichloroethane | 62 | | 10.382 | | | | | ND | |
| 49 n-Heptane | 43 | | 10.575 | | | | | ND | U |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2878946 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | | 11.463 | | | | | ND | |
| 53 Trichloroethene | 95 | | 11.484 | | | | | ND | U |
| 54 1,2-Dichloropropane | 63 | | 12.030 | | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.206 | | | | | ND | |
| A 51 GRO | 1 | 12.257 | (4.423-20.091) | | 0 | 12170550 | | 0 | |
| 57 Dibromomethane | 174 | 12.281 | 12.281 | 0.016 | 44 | 2160 | | 0.0234 | M |
| 56 1,4-Dioxane | 88 | | 12.286 | | | | | ND | |
| 58 Dichlorobromomethane | 83 | | 12.549 | | | | | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.485 | | | | | ND | U |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | | ND | U |
| 65 Toluene | 92 | 14.073 | 14.073 | 0.005 | 29 | 2274 | | 0.0198 | M |
| 64 n-Octane | 43 | | 14.143 | | | | | ND | U |
| A 59 TVOC as Toluene | 92 | 14.159 | (3.086-25.232) | | 0 | 12380077 | | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.651 | | | | | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.025 | | | | | ND | |
| 68 Tetrachloroethene | 166 | | 15.143 | | | | | ND | MU |
| 69 2-Hexanone | 43 | | 15.507 | | | | | ND | U |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | | ND | U |
| 72 Ethylene Dibromide | 107 | 16.042 | 16.042 | -0.005 | 48 | 1791 | | 0.0143 | M |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2834161 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.005 | 17.016 | -0.011 | 38 | 3148 | | 0.0178 | |
| 76 Ethylbenzene | 91 | | 17.182 | | | | | ND | MUa |
| 77 n-Nonane | 57 | | 17.358 | | | | | ND | |
| 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.433 | 0.005 | 0 | 2485 | | 0.0237 | |
| 79 o-Xylene | 106 | 18.284 | 18.284 | -0.010 | 17 | 1765 | | 0.0177 | M |
| 80 Styrene | 104 | 18.337 | 18.337 | 0.000 | 33 | 1129 | | 0.007405 | 7a |
| 81 Bromoform | 173 | | 18.781 | | | | | ND | U |
| 82 Isopropylbenzene | 105 | | 19.049 | | | | | ND | Ua |
| S 73 Xylenes, Total | 106 | | | | 0 | | | 0.0414 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | | ND | U |
| 85 N-Propylbenzene | 91 | | 19.846 | | | | | ND | U |
| 86 1,2,3-Trichloropropane | 75 | | 19.862 | | | | | ND | U |
| 89 2-Chlorotoluene | 91 | | 20.044 | | | | | ND | MU |
| 88 4-Ethyltoluene | 105 | 20.070 | 20.070 | 0.016 | 37 | 3153 | | 0.0107 | Ma |
| 87 n-Decane | 57 | | 20.081 | | | | | ND | |
| 90 1,3,5-Trimethylbenzene | 105 | | 20.177 | | | | | ND | |
| 91 Alpha Methyl Styrene | 118 | 20.573 | 20.573 | 0.005 | 12 | 2017 | | 0.0170 | M |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | 20.793 | 20.793 | -0.005 | 21 | 3191 | | 0.0128 | M |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | | ND | Ua |
| 95 4-Isopropyltoluene | 119 | | 21.269 | | | | | ND | U |
| 96 1,3-Dichlorobenzene | 146 | 21.279 | 21.279 | 0.005 | 90 | 7102 | | 0.0352 | M |
| 97 1,4-Dichlorobenzene | 146 | 21.418 | 21.418 | 0.000 | 91 | 8021 | | 0.0415 | |
| 98 Benzyl chloride | 91 | | 21.616 | | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.852 | | | | | ND | U |
| 99 Undecane | 57 | | 21.905 | | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | 21.948 | 21.953 | -0.005 | 92 | 6348 | | 0.0342 | |
| 102 Dodecane | 57 | | 23.435 | | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | 24.339 | 24.334 | 0.005 | 29 | 9673 | | 0.0693 | |
| 104 Hexachlorobutadiene | 225 | | 24.526 | | | | | ND | U |
| 105 Naphthalene | 128 | 24.778 | 24.778 | 0.000 | 97 | 21335 | | 0.0789 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.227 | 25.222 | 0.005 | 74 | 9521 | | 0.0790 | |
| 119 Difluoroethane TIC | 1 | | 0.000 | | | | | ND | |
| 118 Chlorotrifluoroethene TIC | 1 | | 0.000 | | | | | ND | |
| 120 Total Alkanes TIC | 1 | | 0.000 | | | | | ND | |
| 122 1,1,1-Trifluoro-2,2-dichlo | 1 | | 0.000 | | | | | ND | |
| 121 Freon 115 TIC | 1 | | 0.000 | | | | | ND | |

## QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

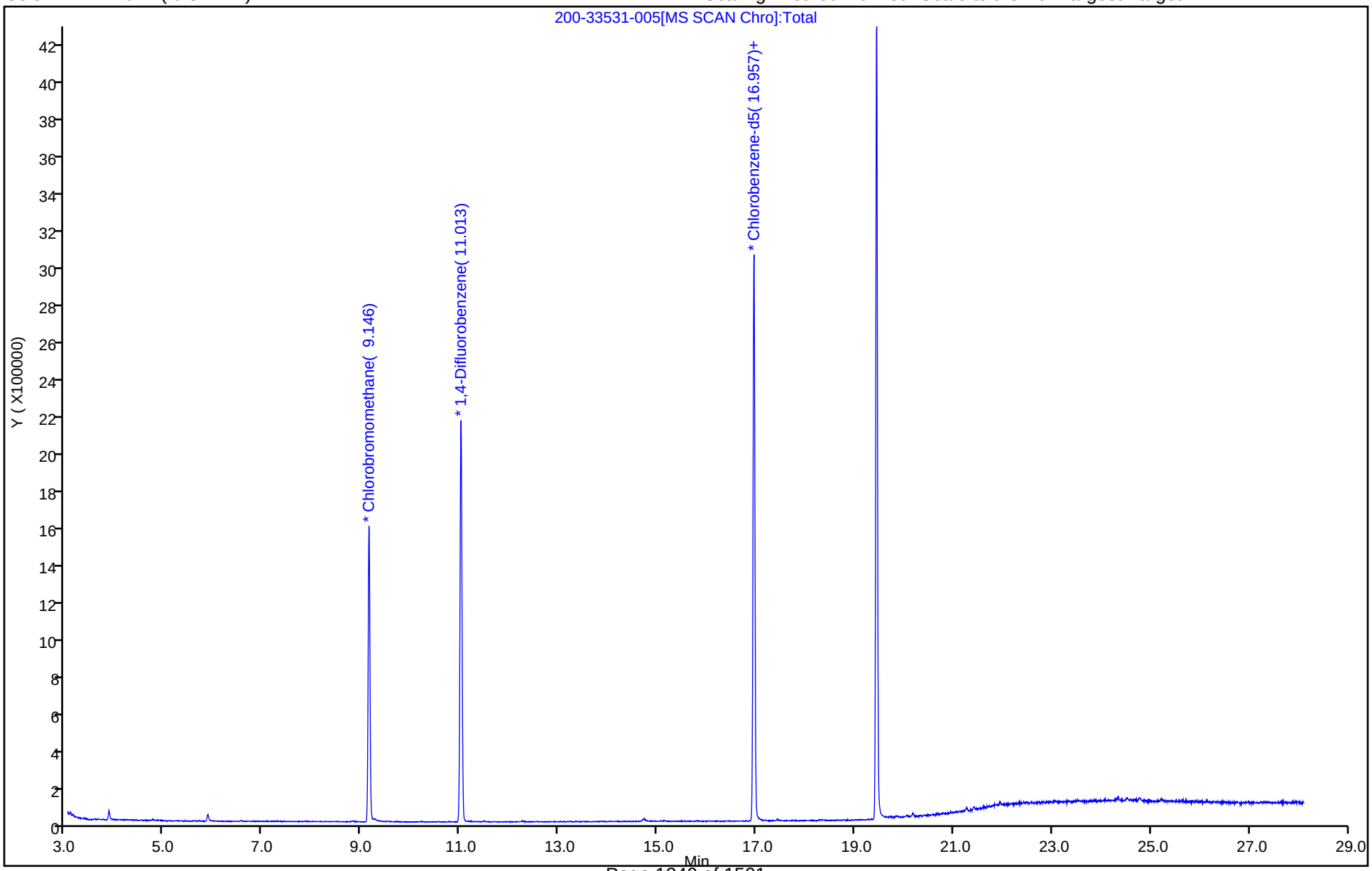
Report Date: 06-Dec-2018 13:09:02 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | mb | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



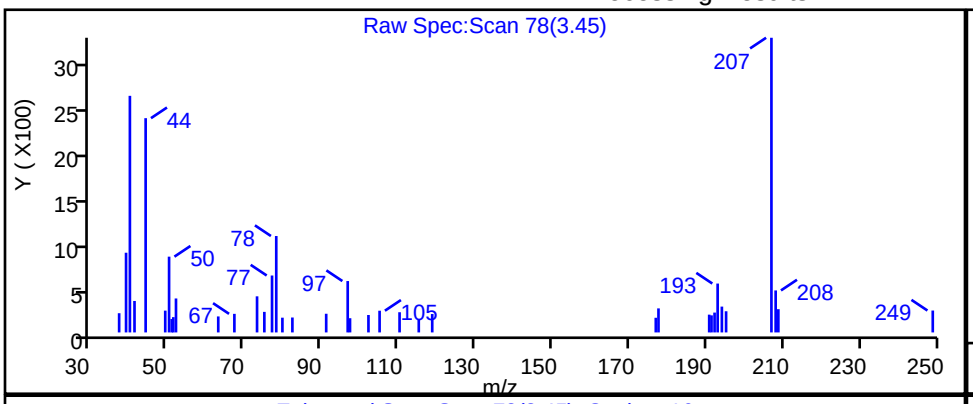
User Disabled Compound Report

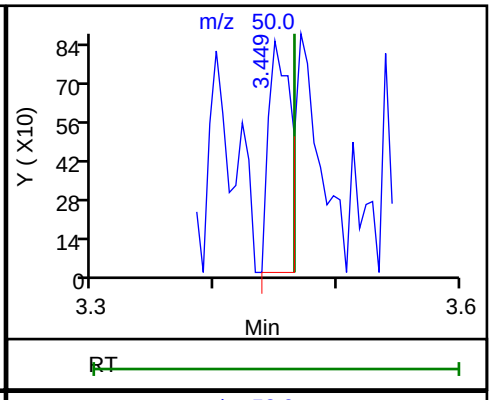
TestAmerica Burlington

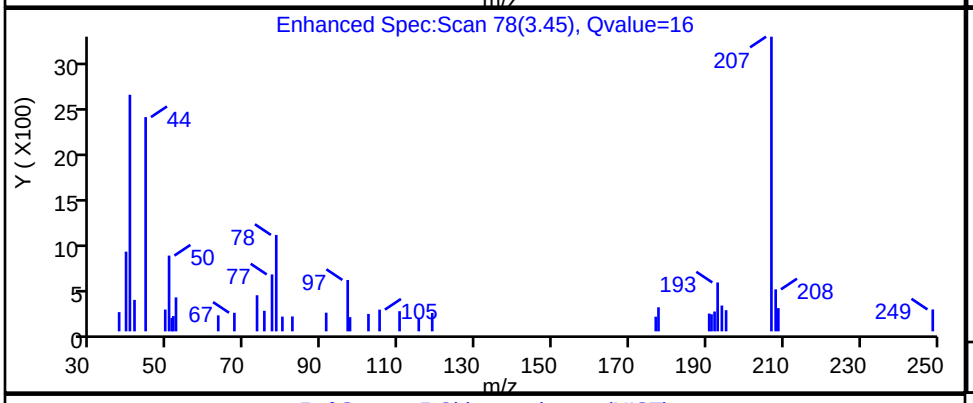
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

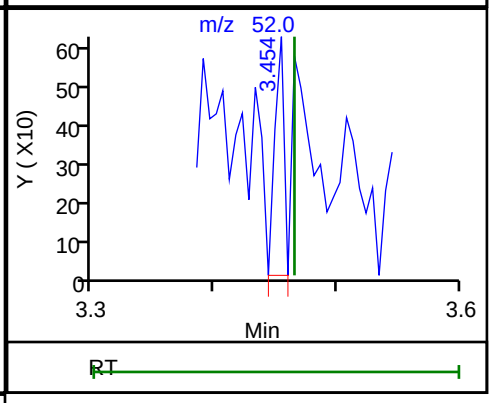
## 5 Chloromethane, CAS: 74-87-3

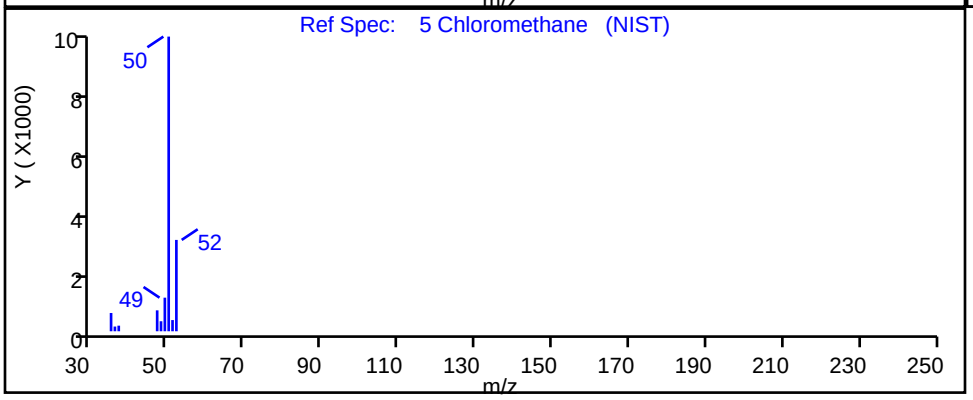
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.45 | 50.00 | 1078 | 0.022461 |
| 3.45 | 52.00 | 322 | |

Reviewer: bunmaa, 06-Dec-2018 12:55:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

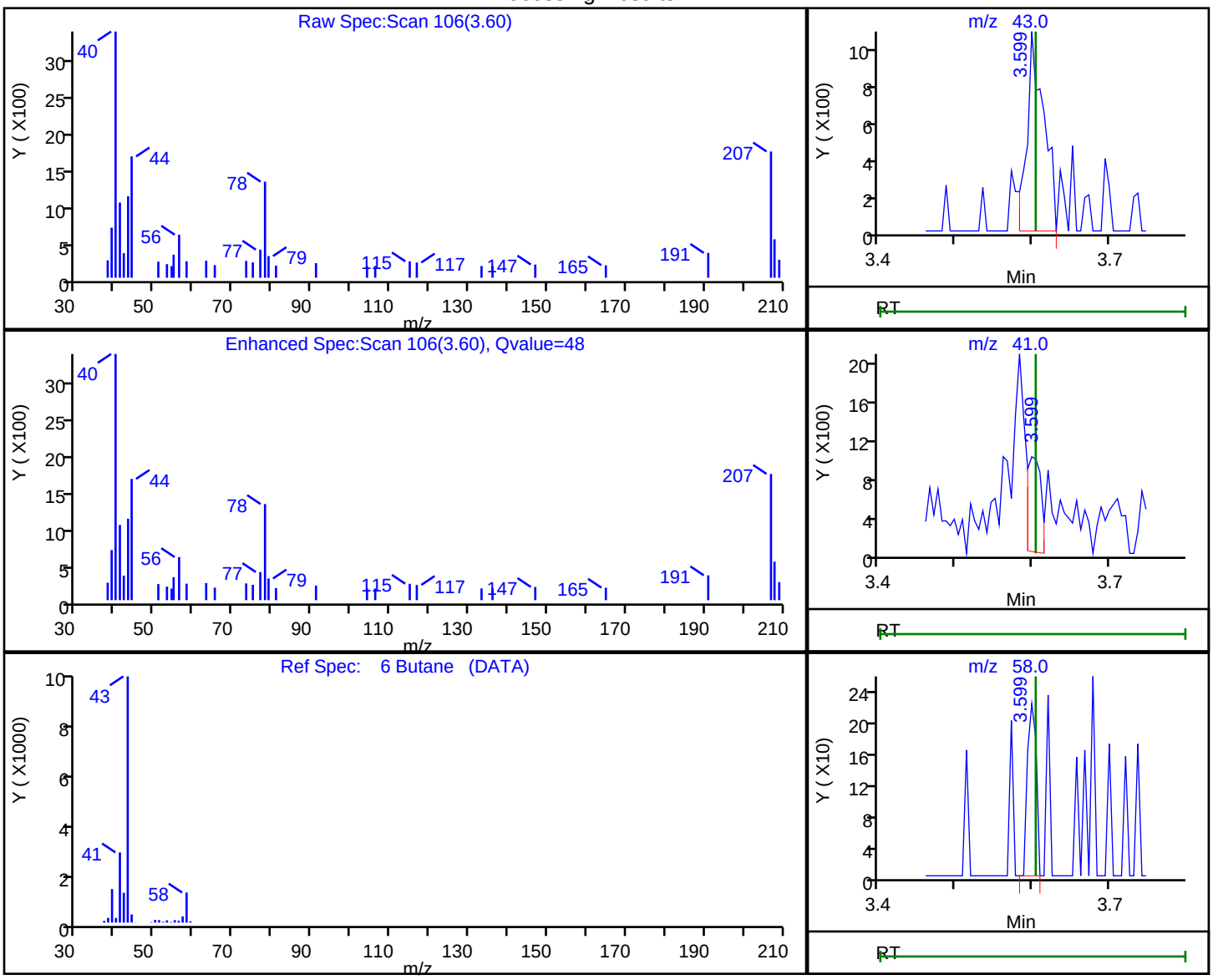
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.60 | 43.00 | 1683 | 0.026050 |
| 3.60 | 41.00 | 1283 | |
| 3.60 | 58.00 | 180 | |

Reviewer: bunmaa, 06-Dec-2018 12:55:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

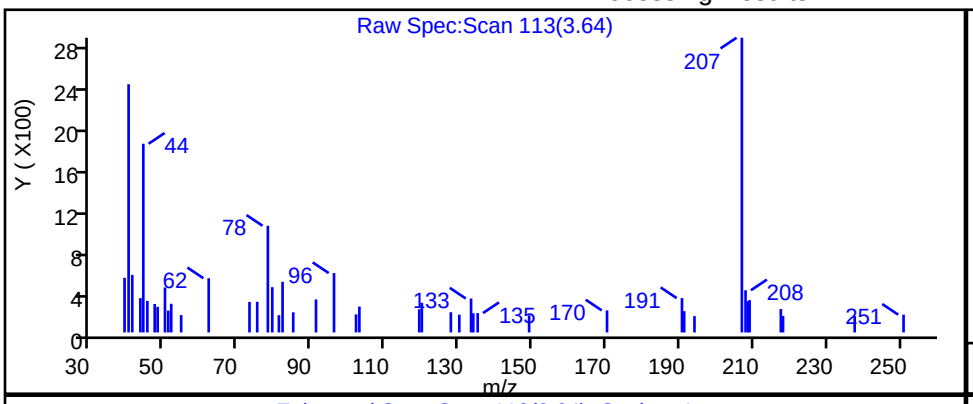
User Disabled Compound Report

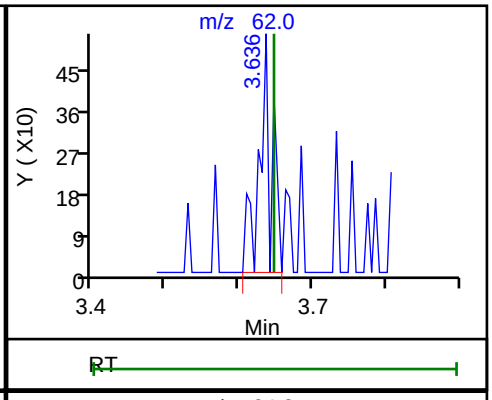
TestAmerica Burlington

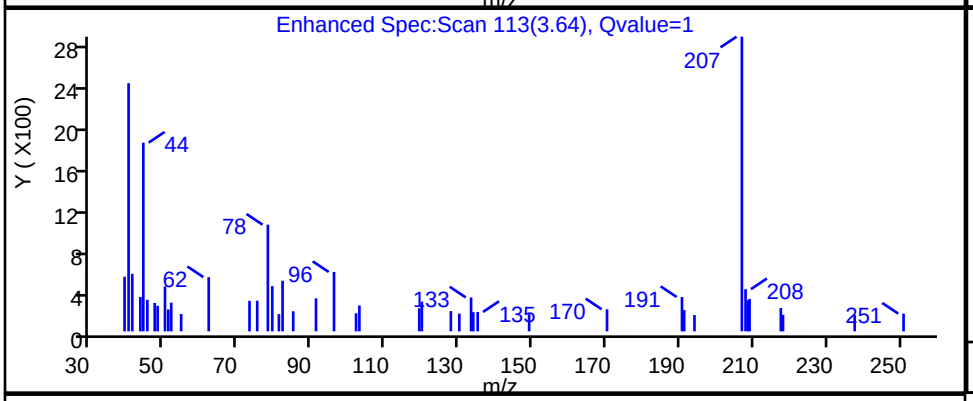
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

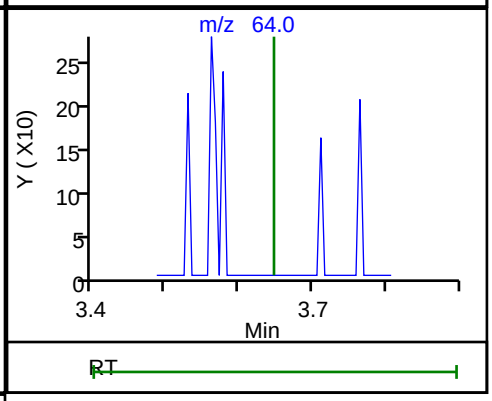
## 7 Vinyl chloride, CAS: 75-01-4

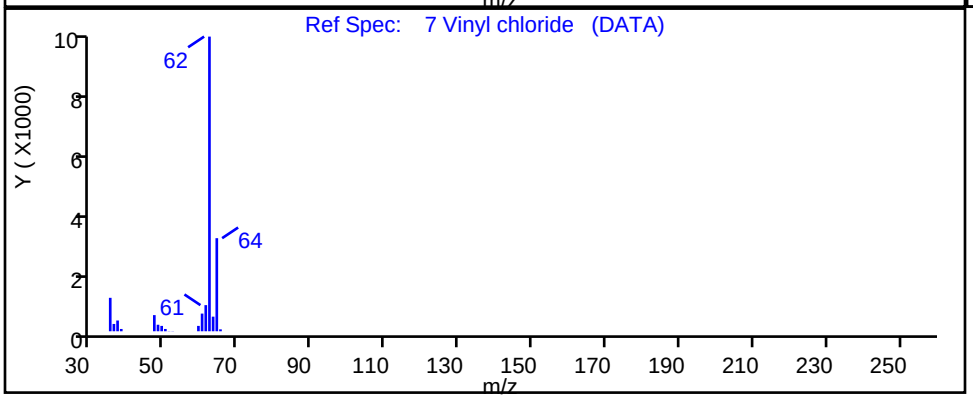
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.64 | 62.00 | 617 | 0.010680 |
| 3.64 | 64.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:55:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

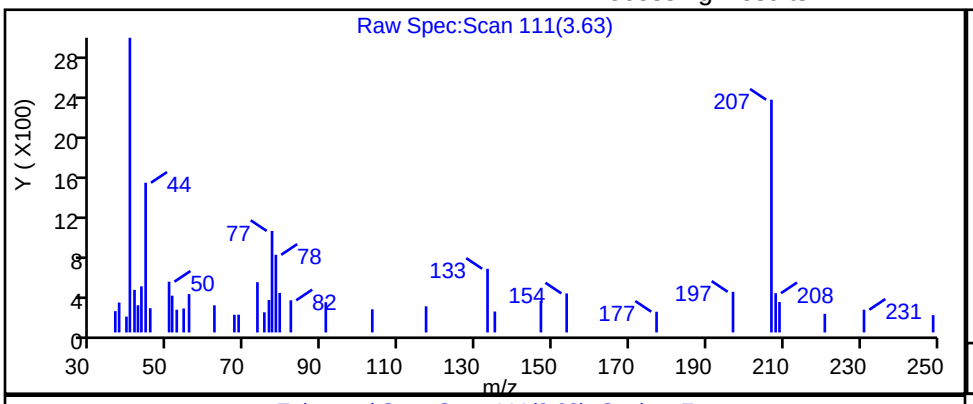
User Disabled Compound Report

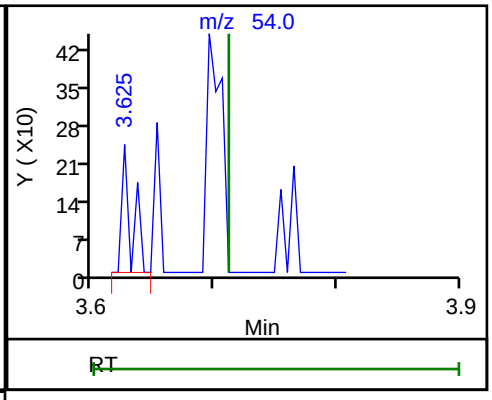
TestAmerica Burlington

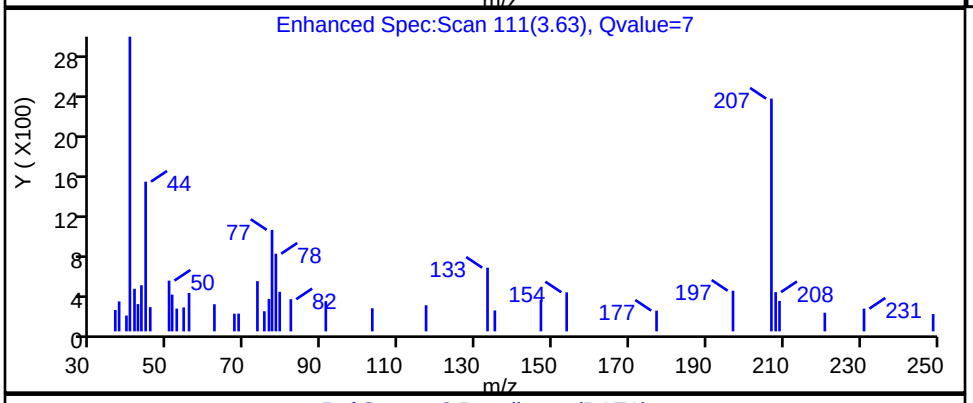
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

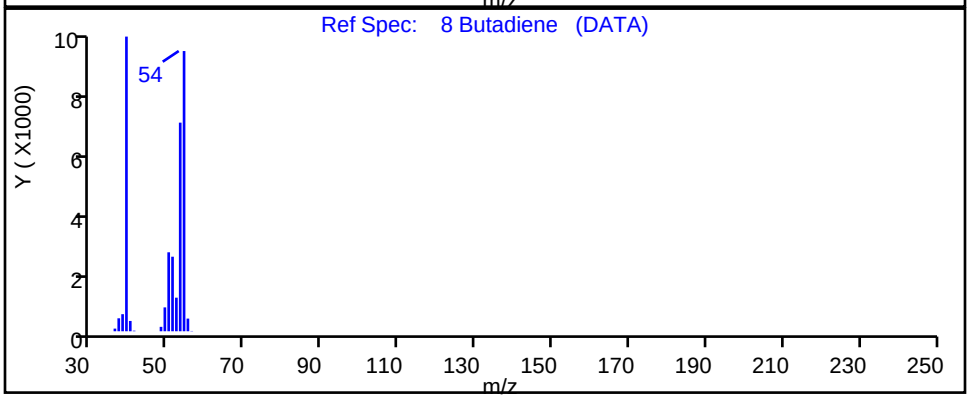
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.63 | 54.00 | 131 | 0.003645 |

Reviewer: bunmaa, 06-Dec-2018 12:56:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

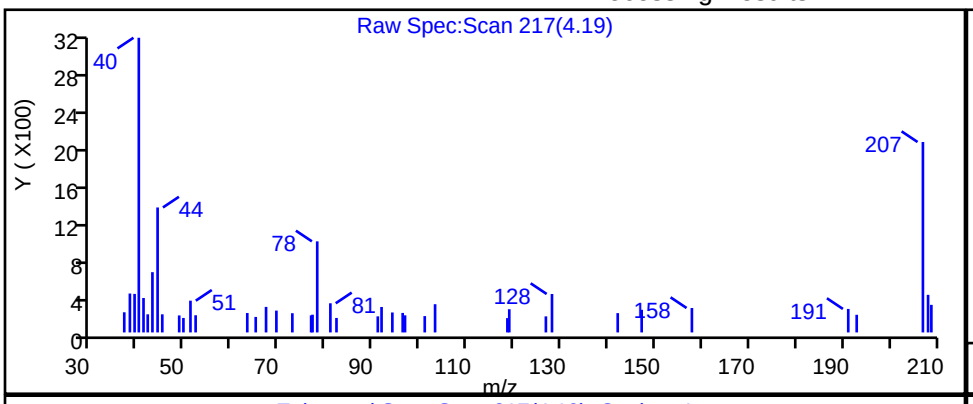
User Disabled Compound Report

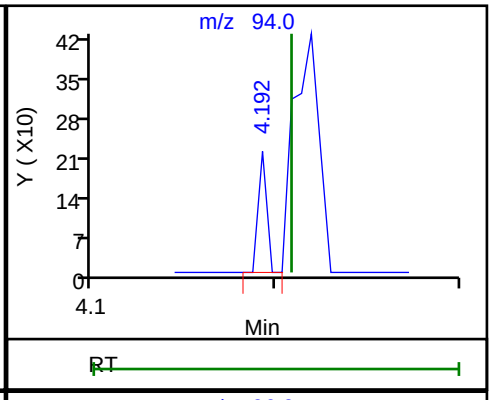
TestAmerica Burlington

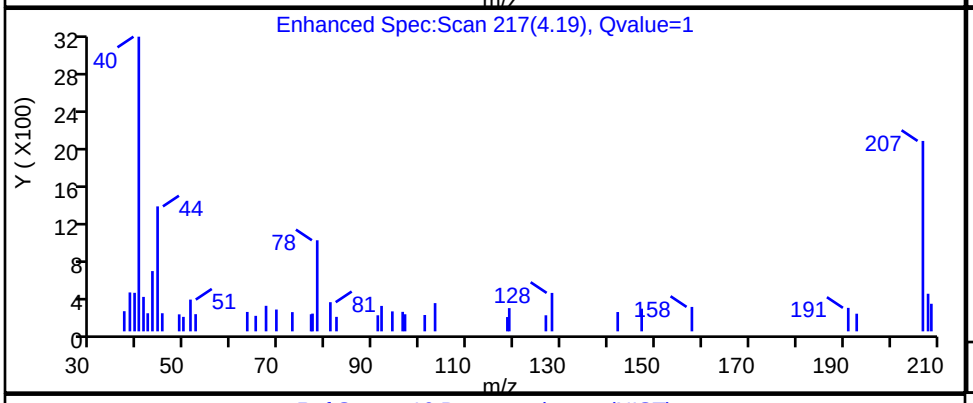
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

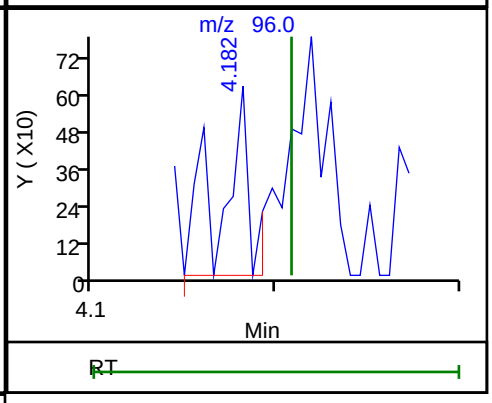
## 10 Bromomethane, CAS: 74-83-9

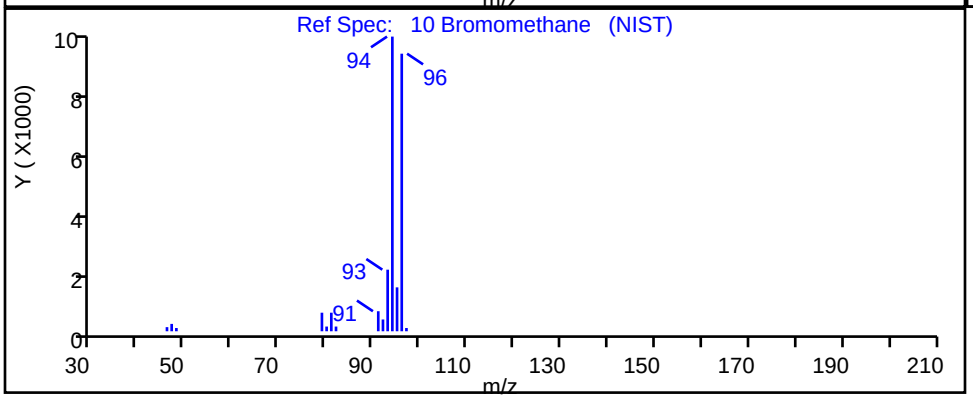
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.19 | 94.00 | 69 | 0.001034 |
| 4.18 | 96.00 | 672 | |

Reviewer: bunmaa, 06-Dec-2018 12:56:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

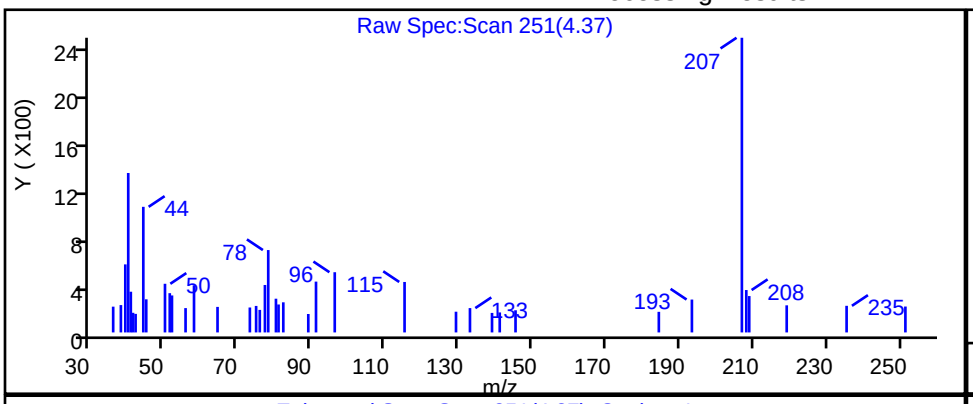
User Disabled Compound Report

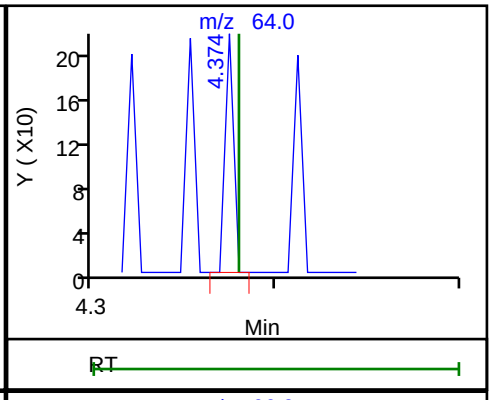
TestAmerica Burlington

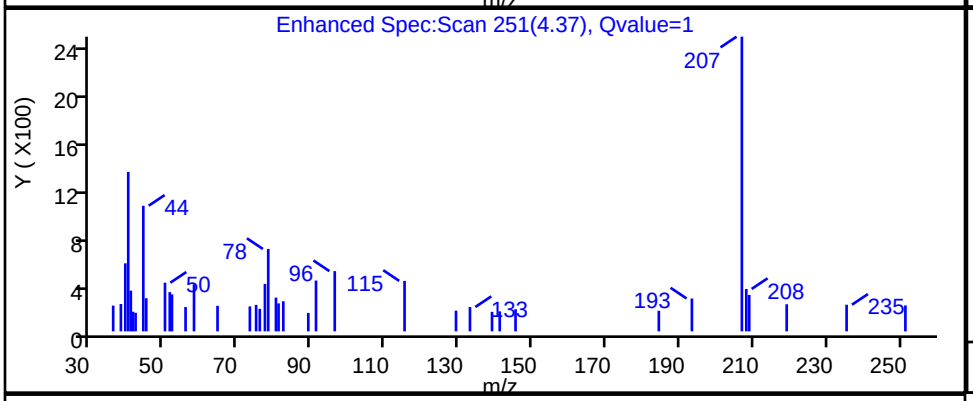
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

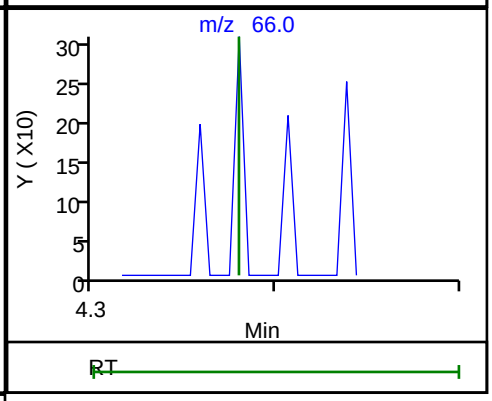
## 11 Chloroethane, CAS: 75-00-3

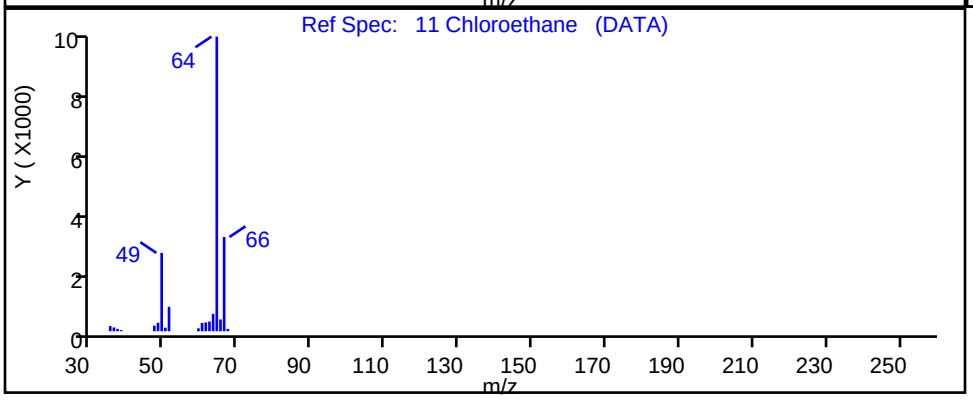
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.37 | 64.00 | 68 | 0.003059 |
| 4.38 | 66.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:56:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

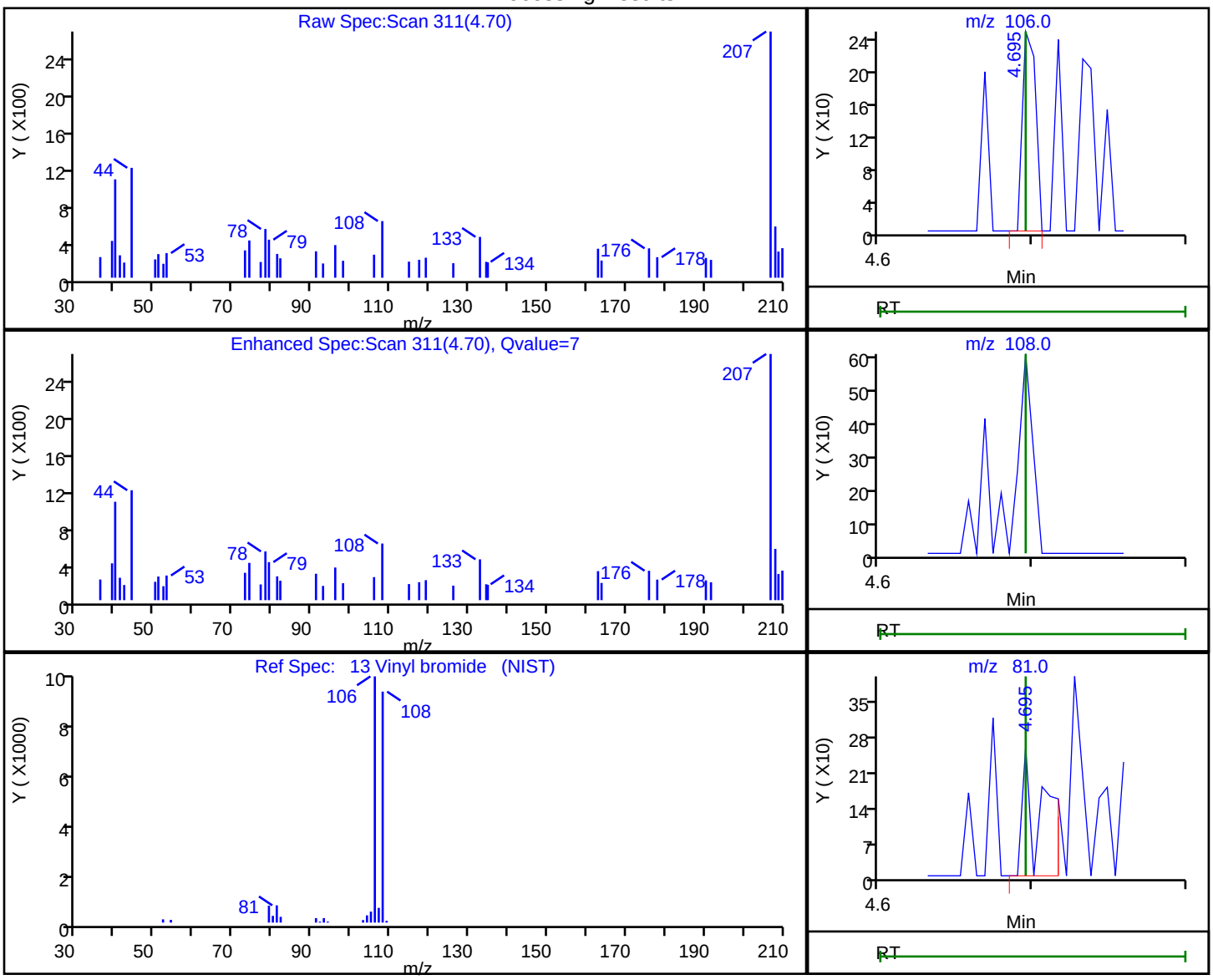
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.70 | 106.00 | 149 | 0.002259 |
| 4.70 | 81.00 | 238 | |
| 4.68 | 108.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:56:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

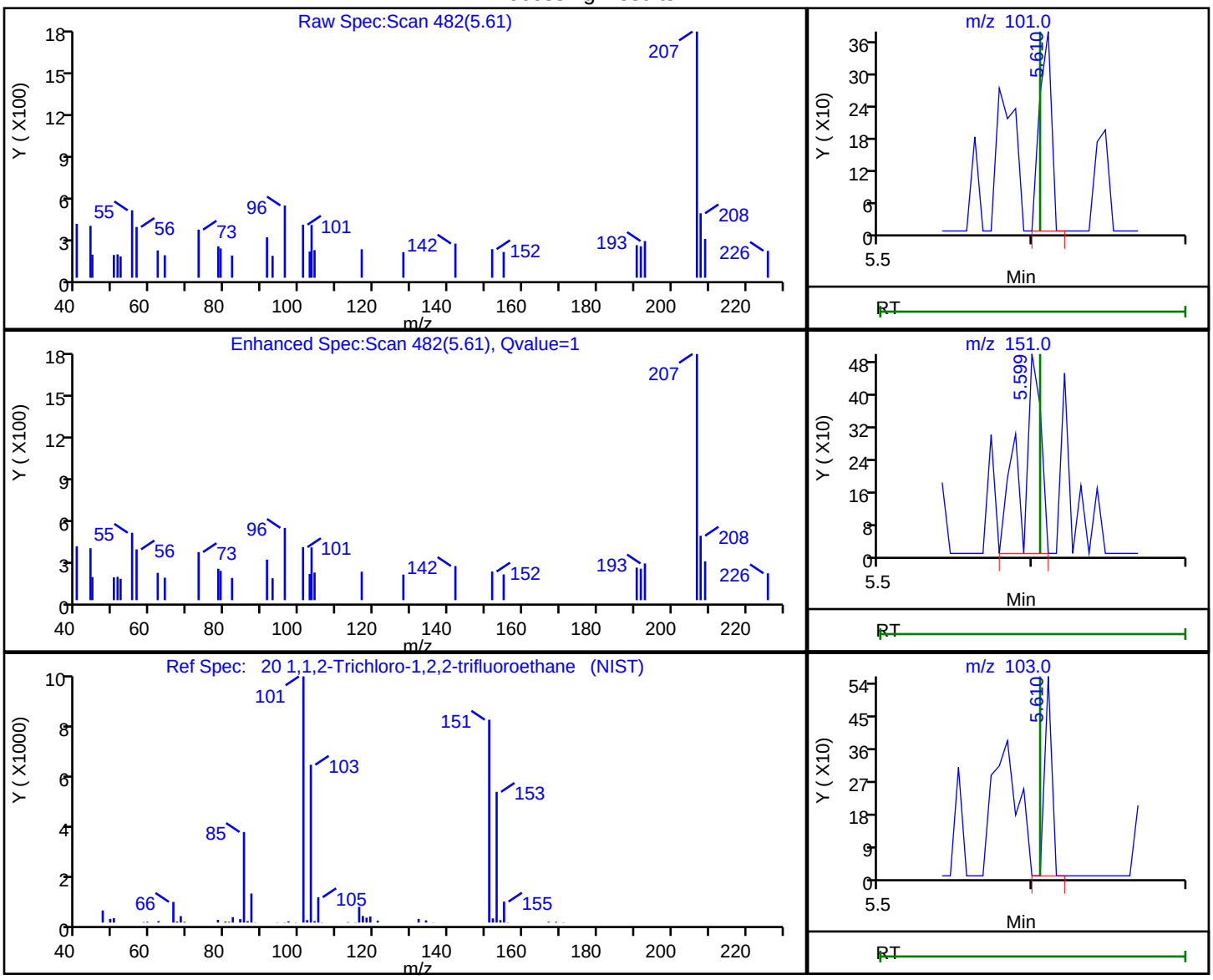
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.61 | 101.00 | 202 | 0.001471 |
| 5.60 | 151.00 | 435 | |
| 5.61 | 103.00 | 178 | |

Reviewer: bunmaa, 06-Dec-2018 12:57:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

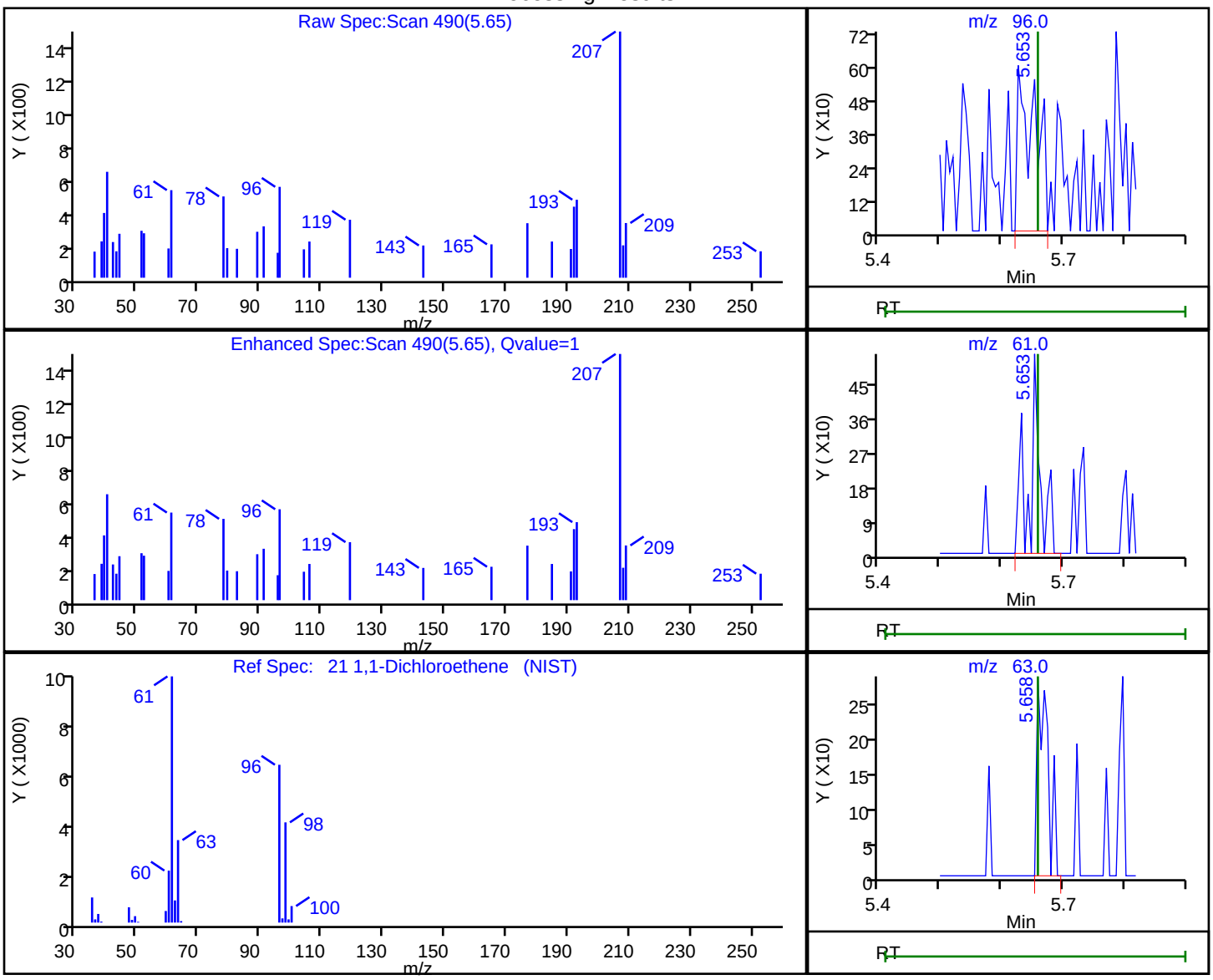
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.65 | 96.00 | 1188 | 0.019656 |
| 5.65 | 61.00 | 656 | |
| 5.66 | 63.00 | 357 | |

Reviewer: bunmaa, 06-Dec-2018 12:57:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

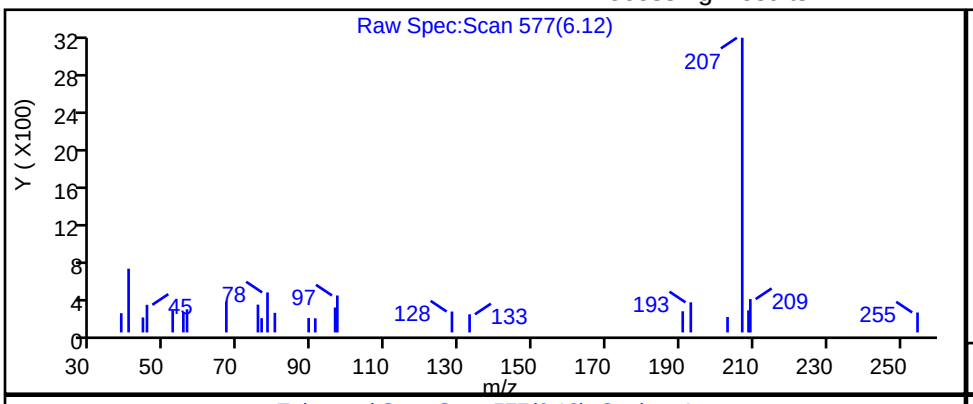
User Disabled Compound Report

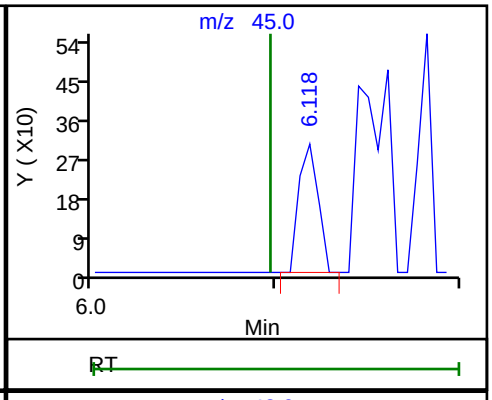
TestAmerica Burlington

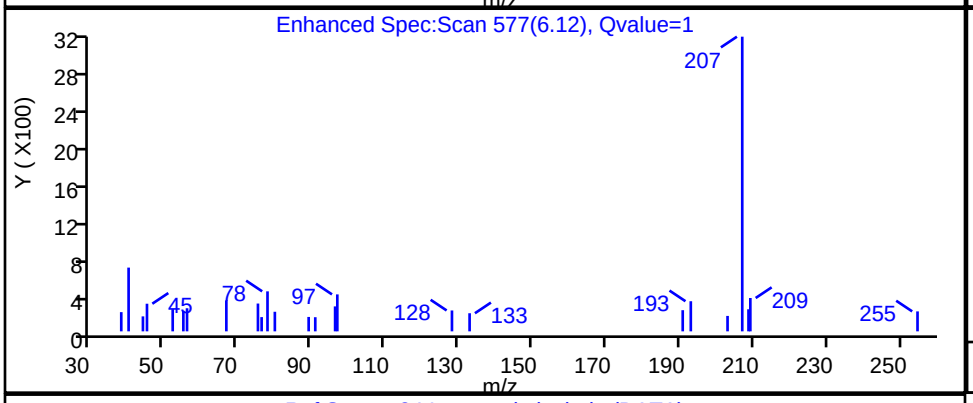
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

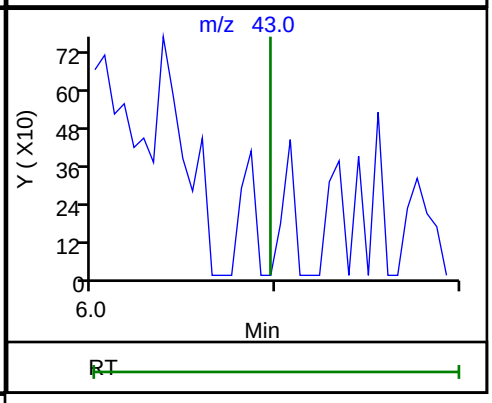
## 24 Isopropyl alcohol, CAS: 67-63-0

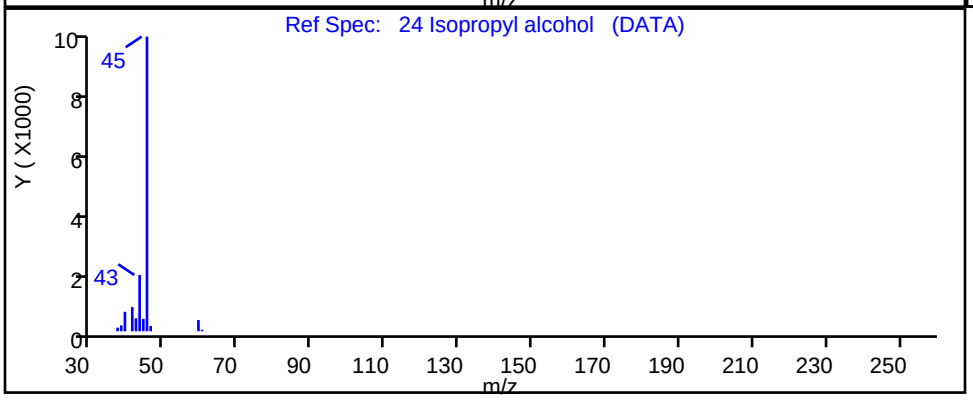
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.12 | 45.00 | 219 | 0.003850 |
| 6.10 | 43.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:57:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

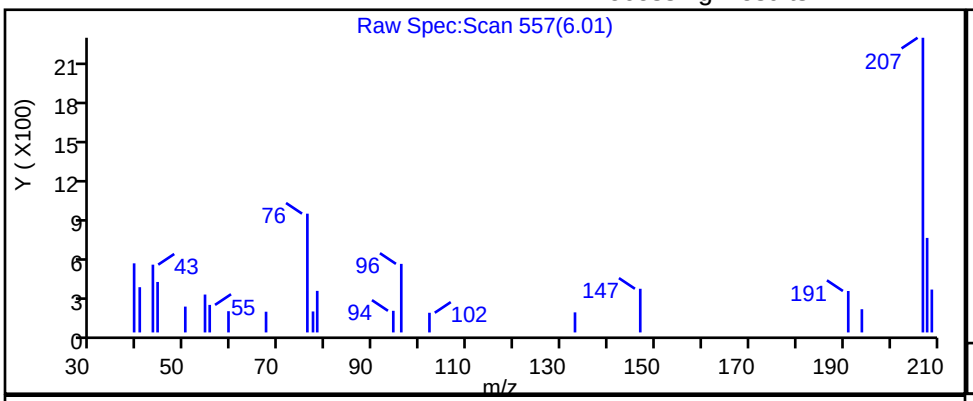
User Disabled Compound Report

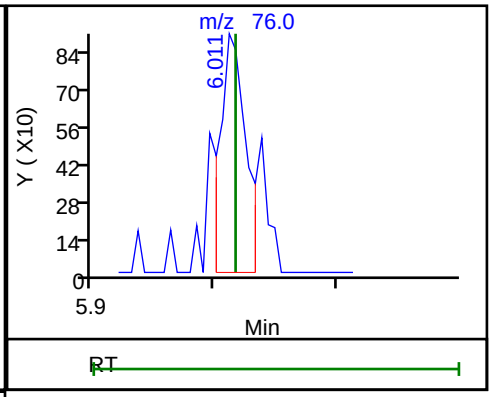
TestAmerica Burlington

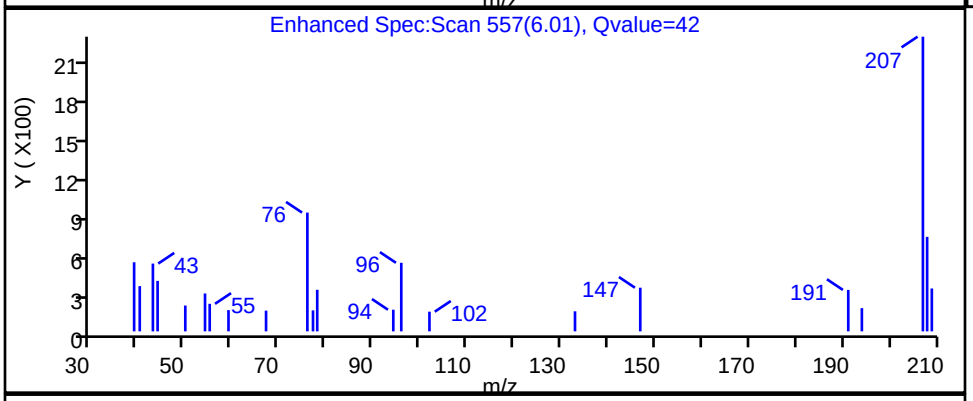
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

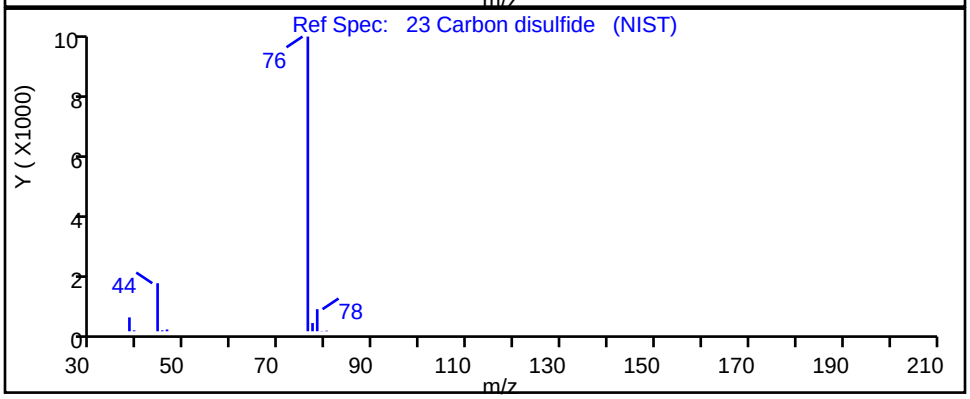
## 23 Carbon disulfide, CAS: 75-15-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.01 | 76.00 | 1322 | 0.008504 |

Reviewer: bunmaa, 06-Dec-2018 12:57:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

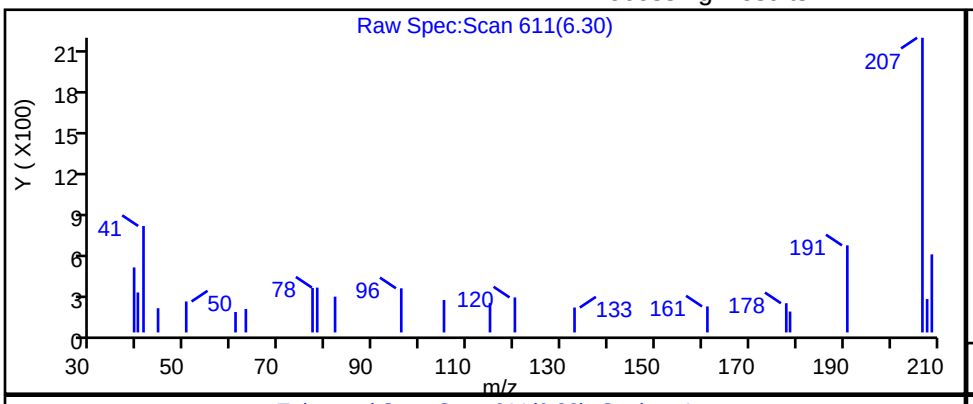
User Disabled Compound Report

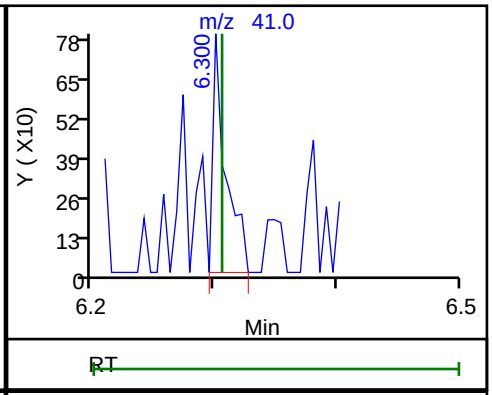
TestAmerica Burlington

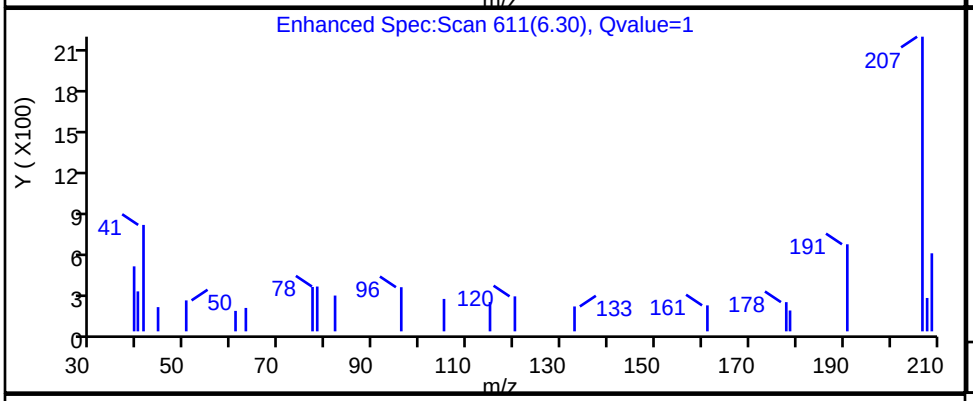
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

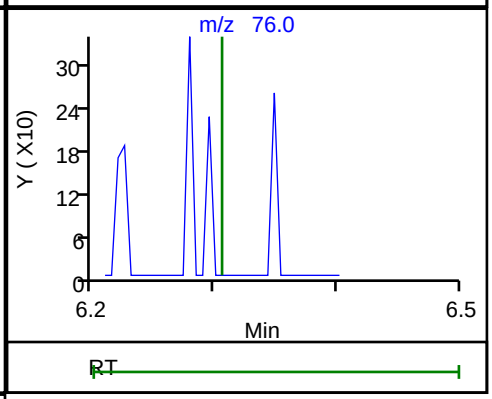
## 25 3-Chloro-1-propene, CAS: 107-05-1

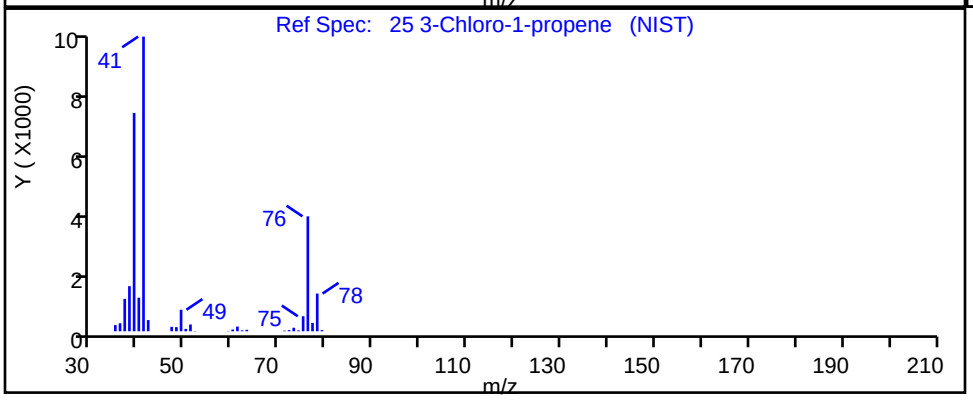
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.30 | 41.00 | 579 | 0.012877 |
| 6.31 | 76.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:57:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

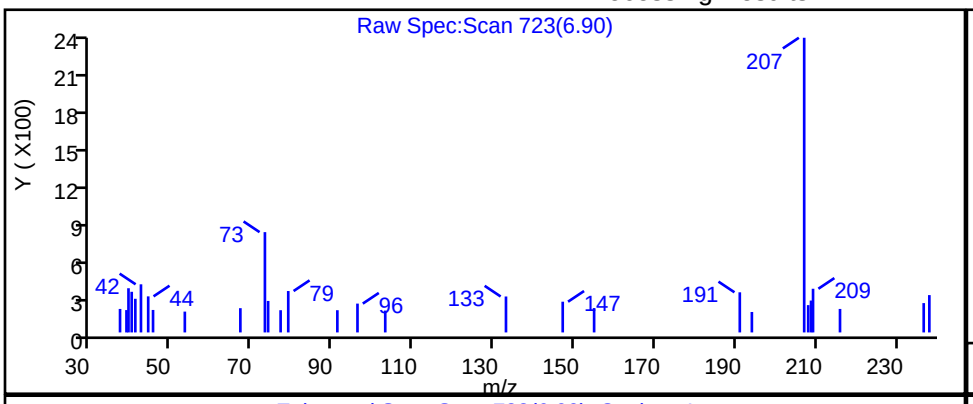
User Disabled Compound Report

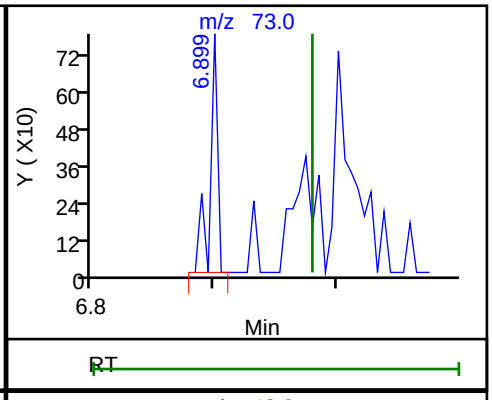
TestAmerica Burlington

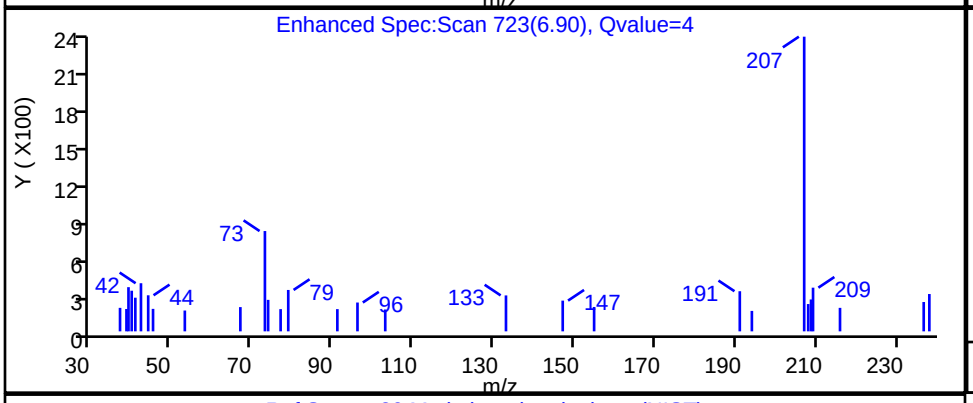
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

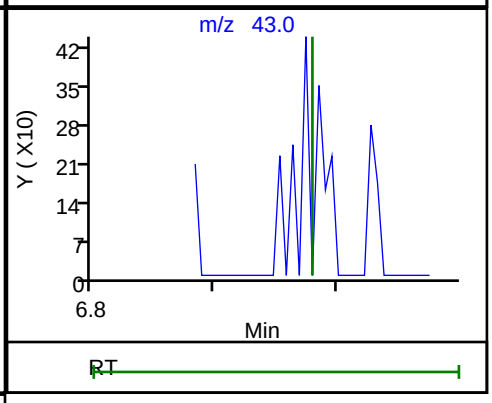
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

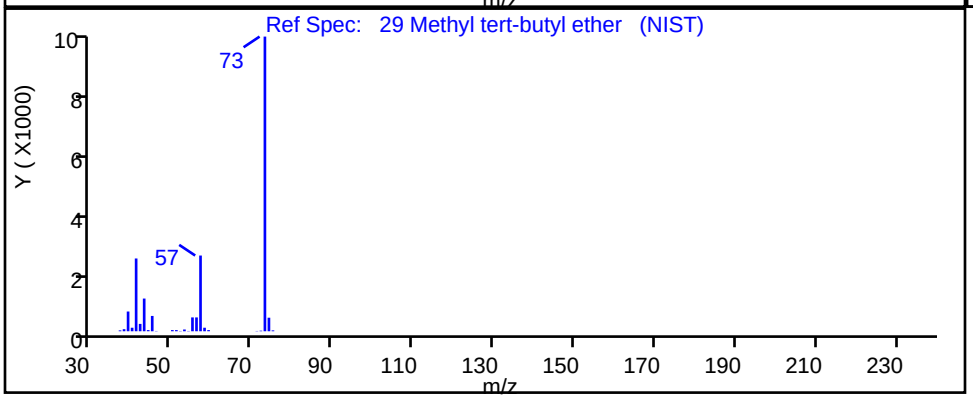
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.90 | 73.00 | 406 | 0.003455 |
| 6.94 | 43.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:58:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

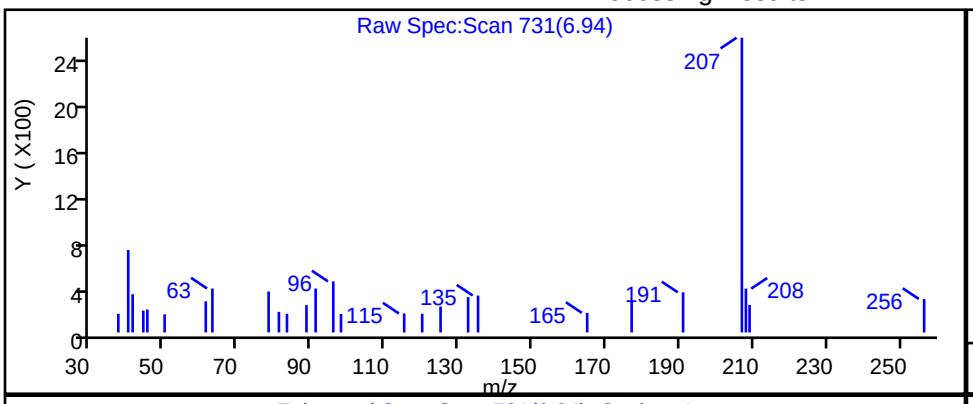
User Disabled Compound Report

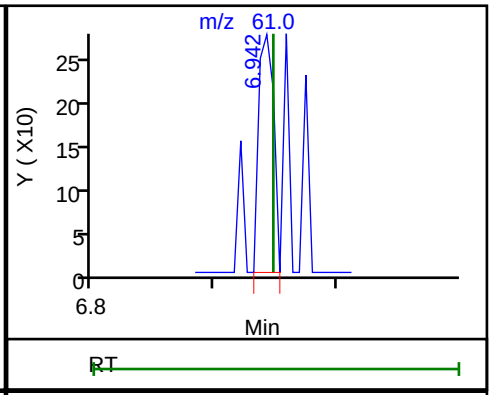
TestAmerica Burlington

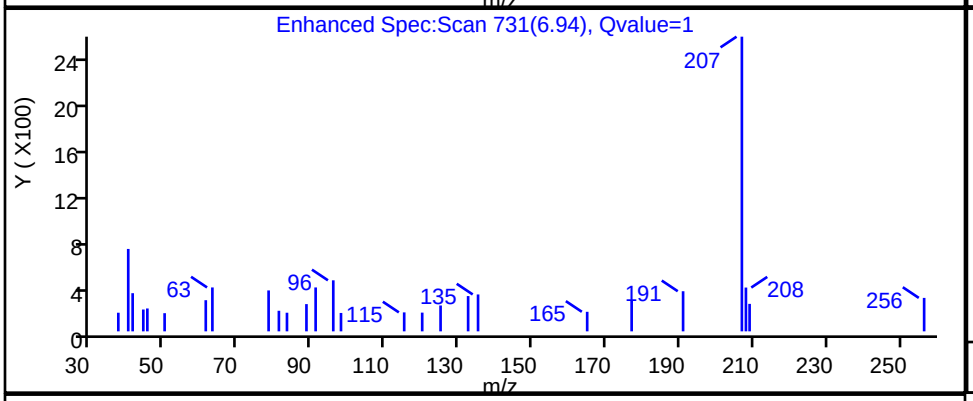
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

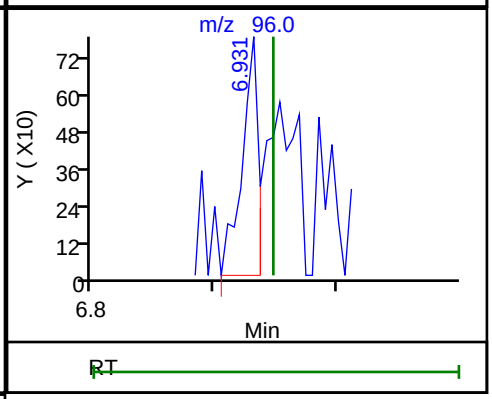
## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

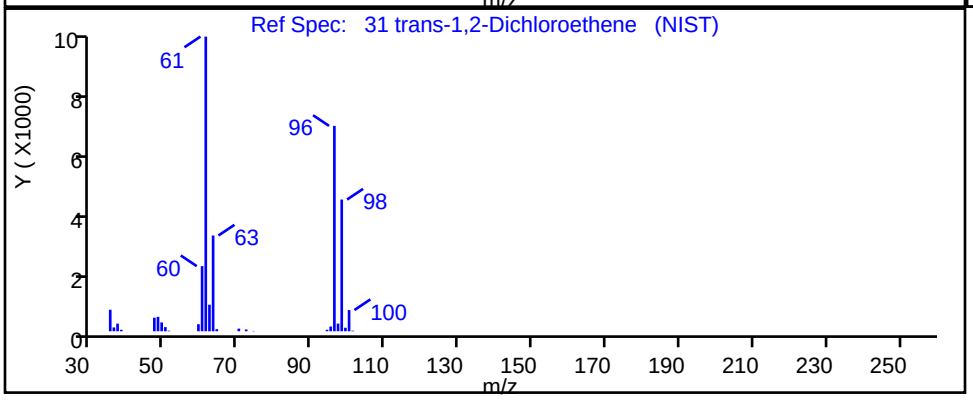
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.94 | 61.00 | 232 | 0.003168 |
| 6.93 | 96.00 | 726 | |

Reviewer: bunmaa, 06-Dec-2018 12:57:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

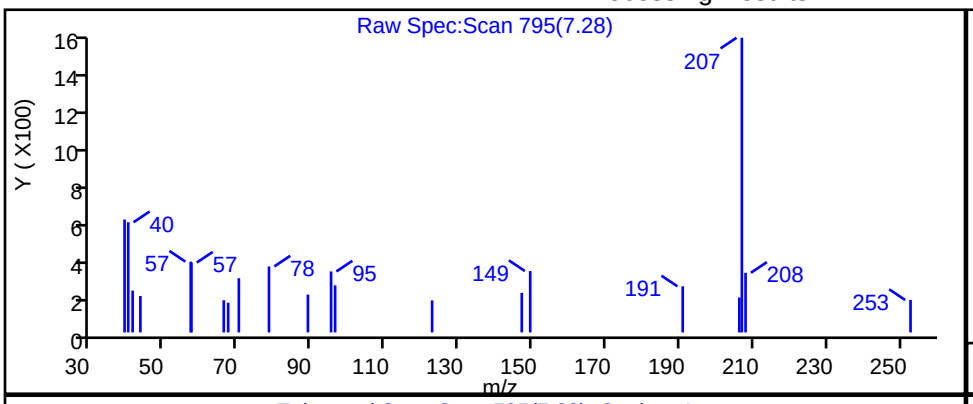
User Disabled Compound Report

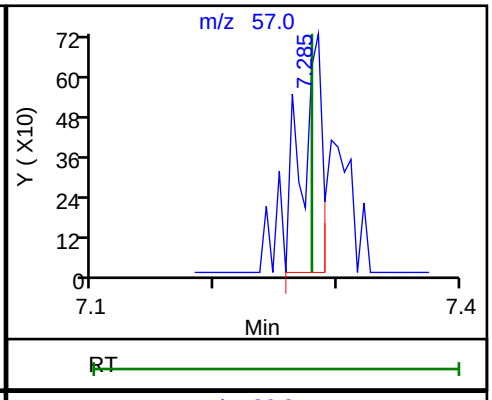
TestAmerica Burlington

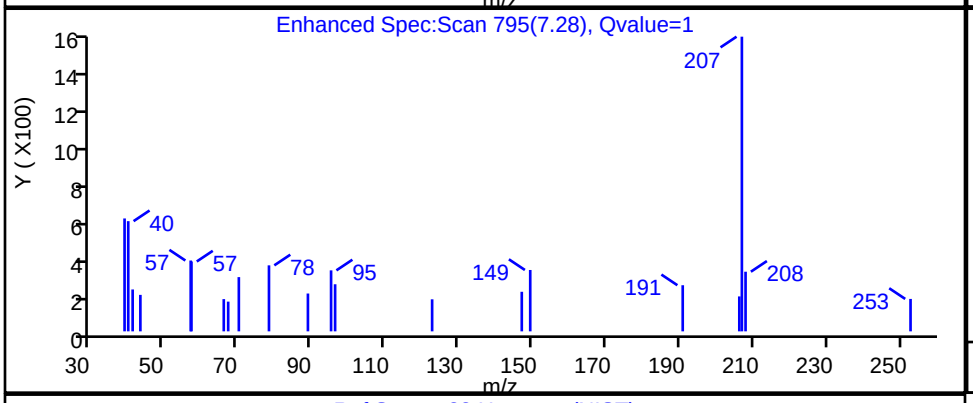
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

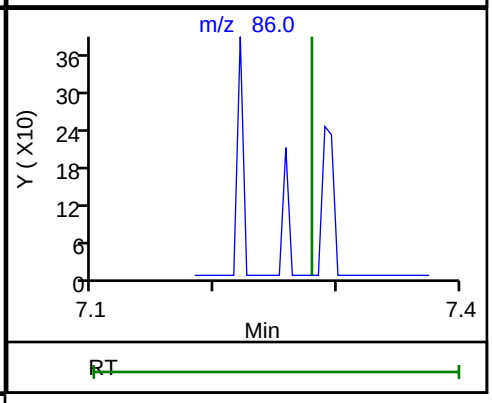
## 33 Hexane, CAS: 110-54-3

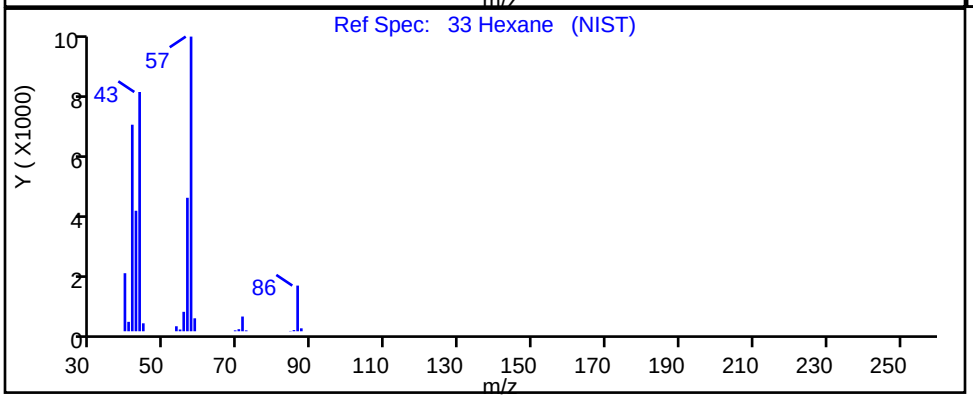
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.28 | 57.00 | 832 | 0.014254 |
| 7.30 | 86.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:59:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

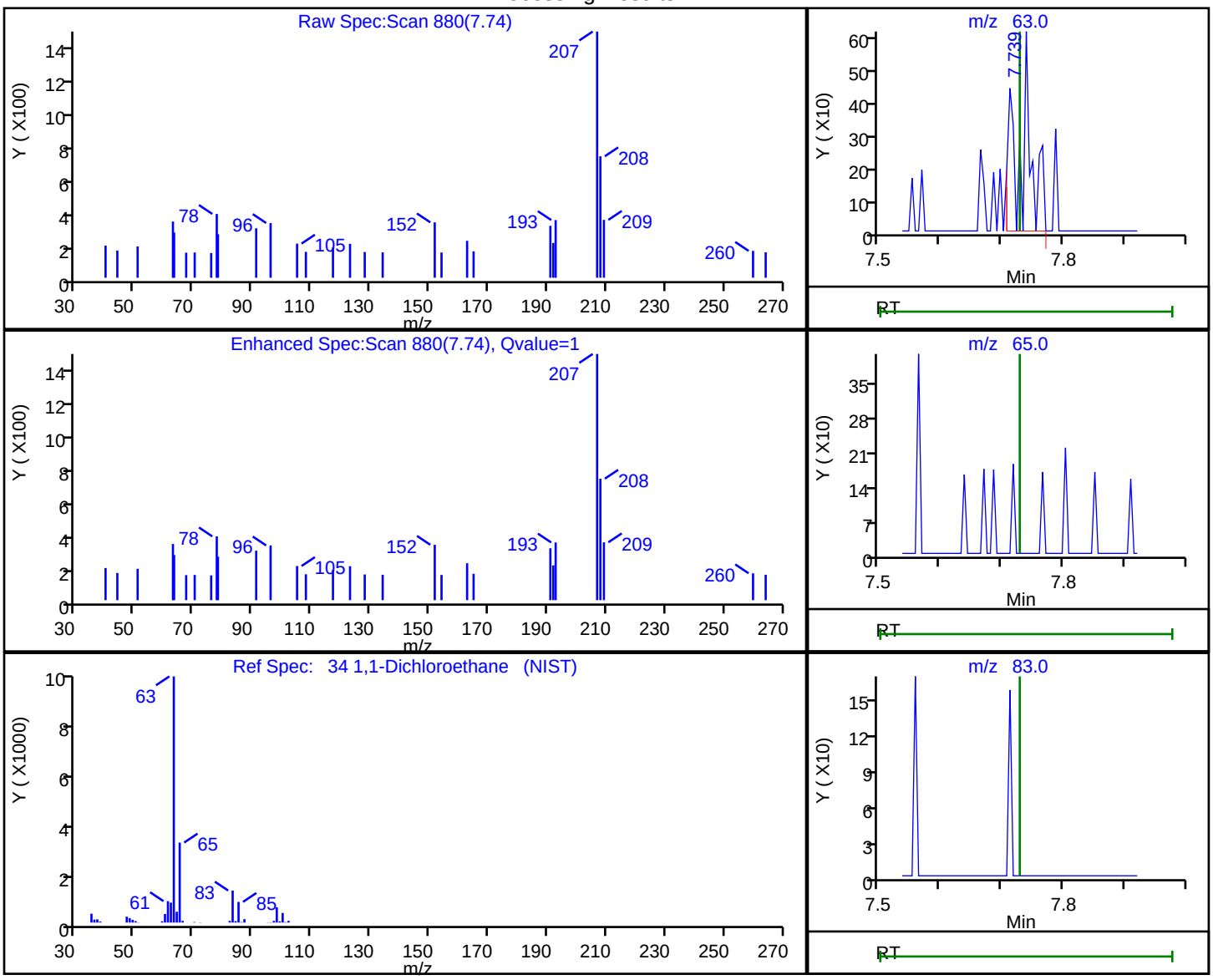
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.74 | 63.00 | 879 | 0.009302 |
| 7.73 | 65.00 | 0 | |
| 7.73 | 83.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:59:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

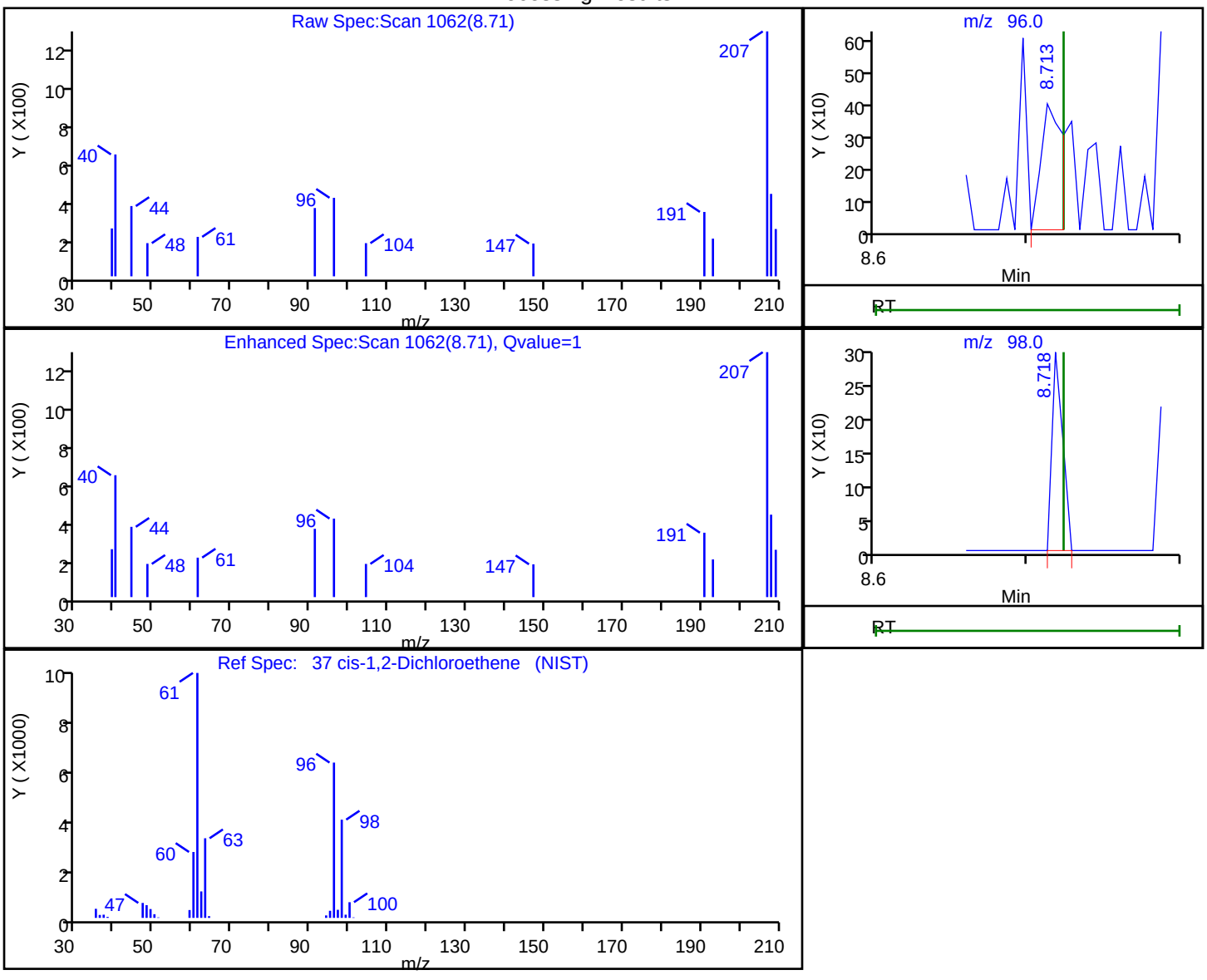
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.71 | 96.00 | 392 | 0.006847 |
| 8.72 | 98.00 | 144 | |

Reviewer: bunmaa, 06-Dec-2018 12:59:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

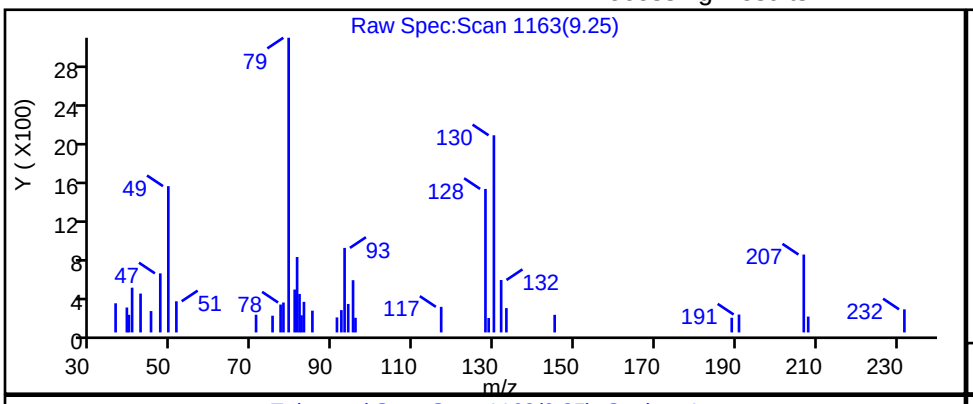
User Disabled Compound Report

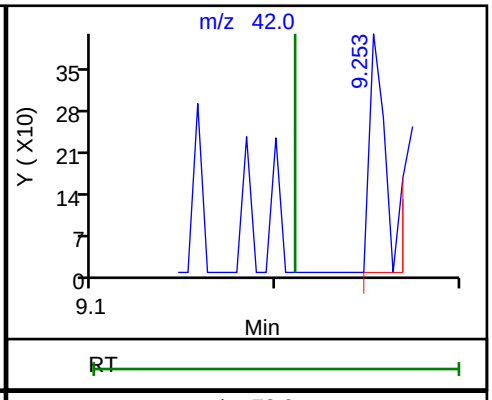
TestAmerica Burlington

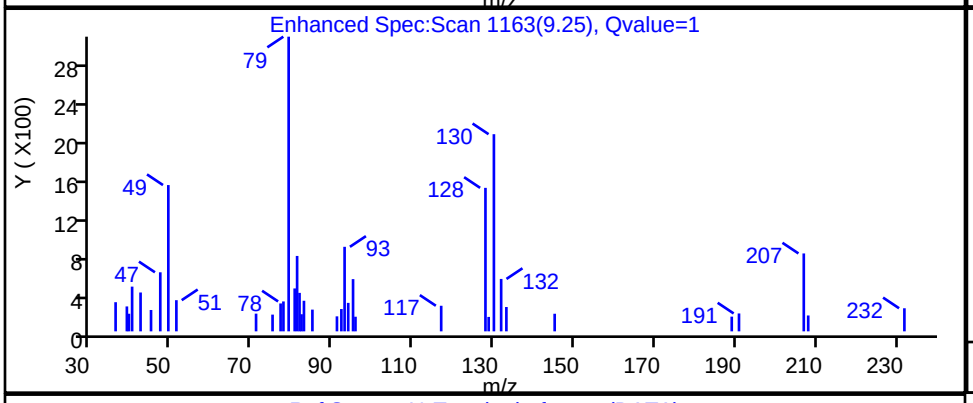
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

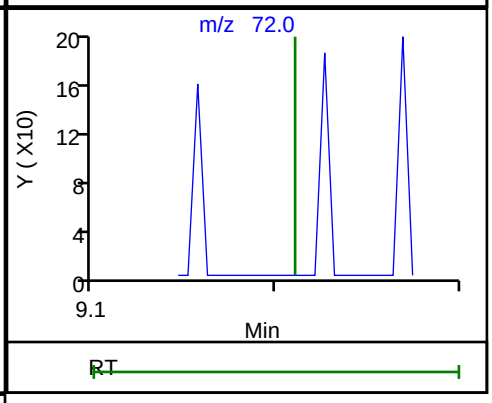
## 41 Tetrahydrofuran, CAS: 109-99-9

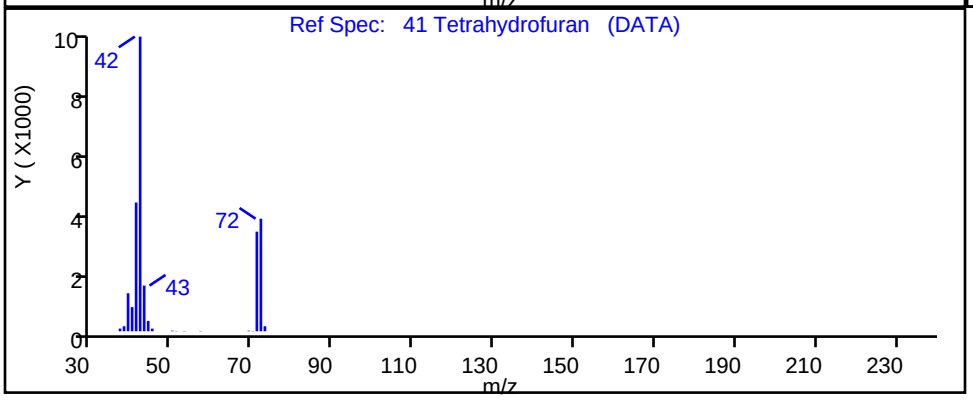
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.25 | 42.00 | 265 | 0.008069 |
| 9.27 | 72.00 | 170 | |

Reviewer: bunmaa, 06-Dec-2018 12:59:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 06-Dec-2018 13:09:02 Chrom Revision: 2.3 21-Nov-2018 13:56:44

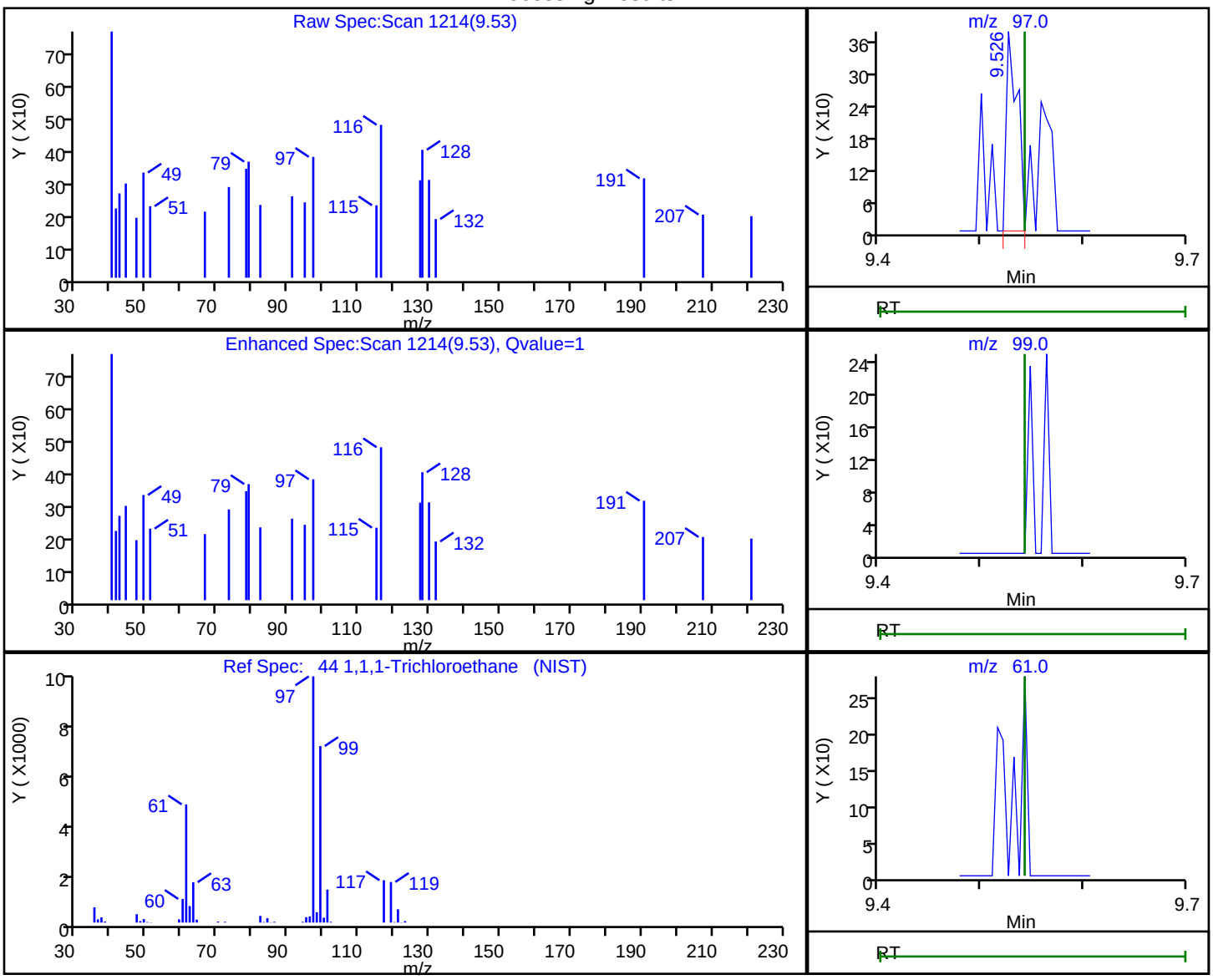
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.53 | 97.00 | 285 | 0.001782 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 12:59:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

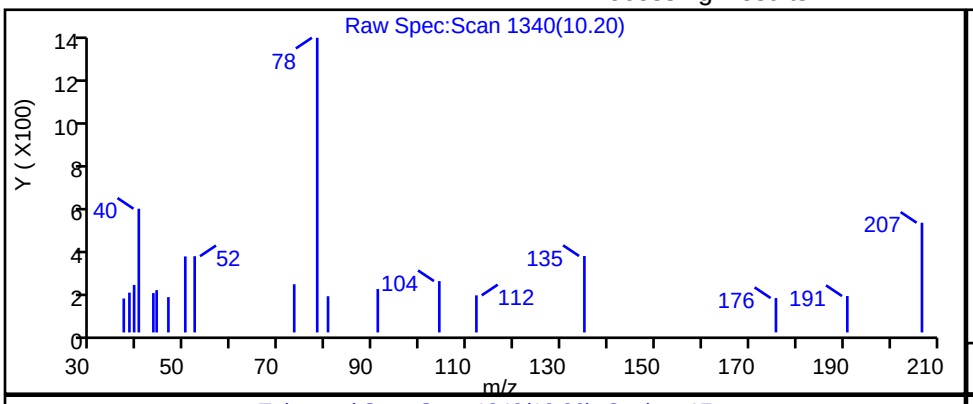
User Disabled Compound Report

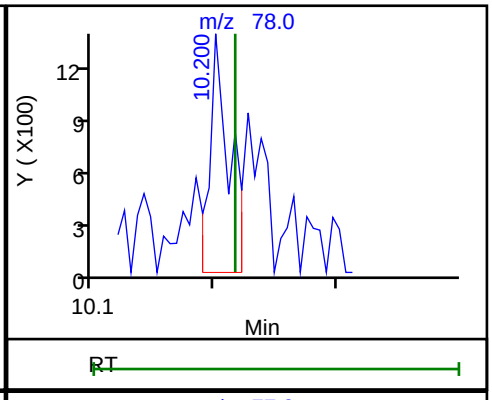
TestAmerica Burlington

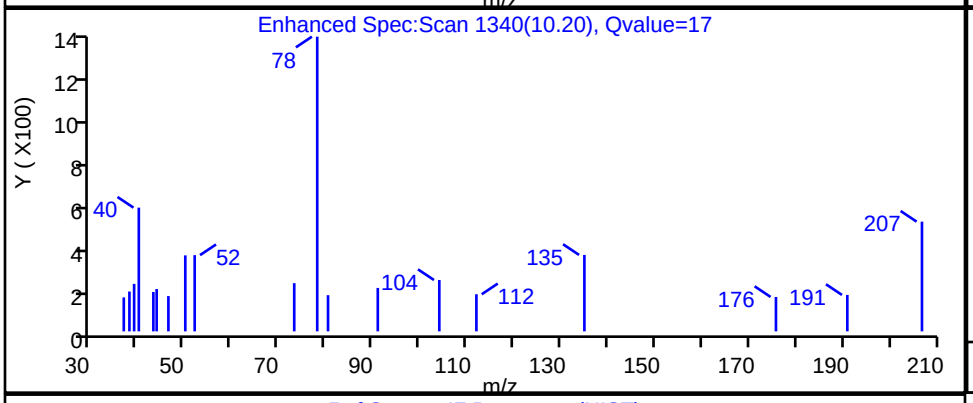
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

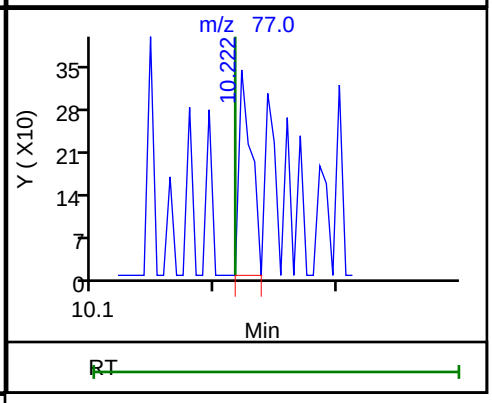
## 47 Benzene, CAS: 71-43-2

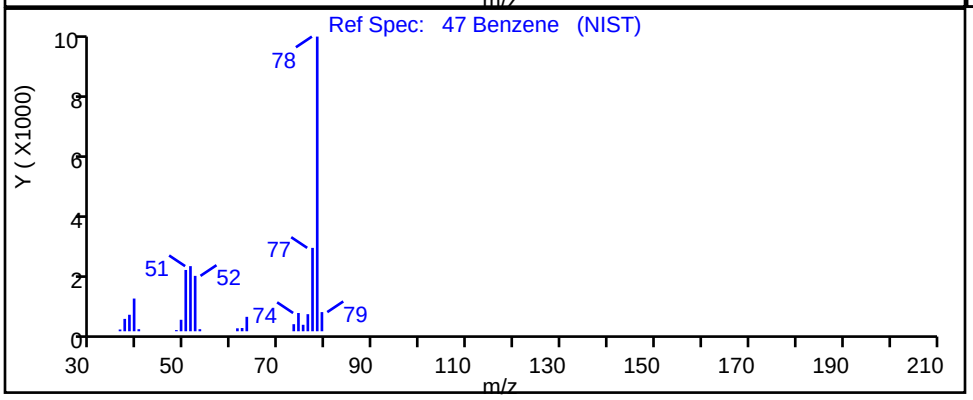
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.20 | 78.00 | 1472 | 0.009602 |
| 10.22 | 77.00 | 239 | |

Reviewer: bunmaa, 06-Dec-2018 13:00:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

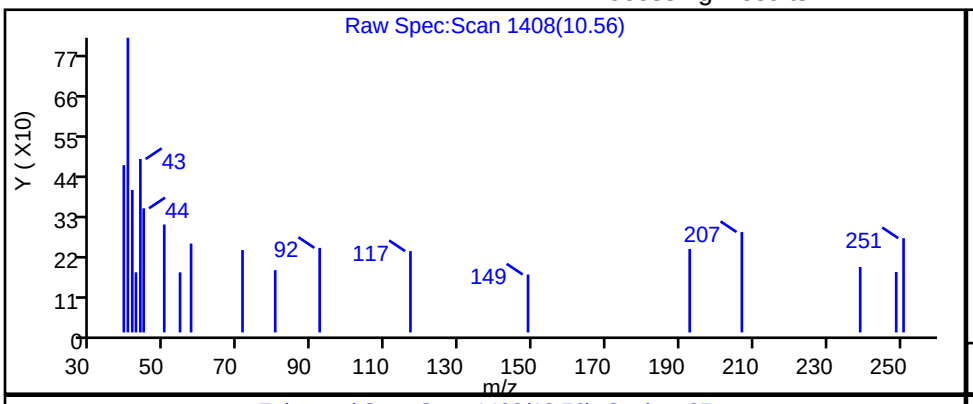
User Disabled Compound Report

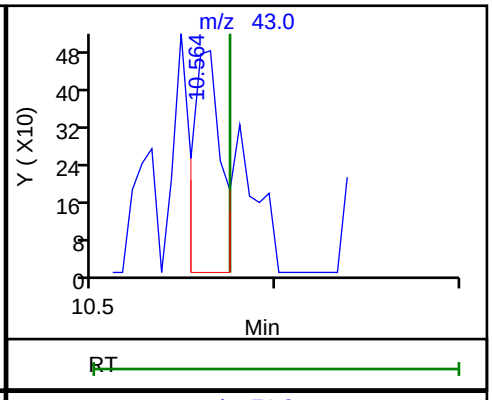
TestAmerica Burlington

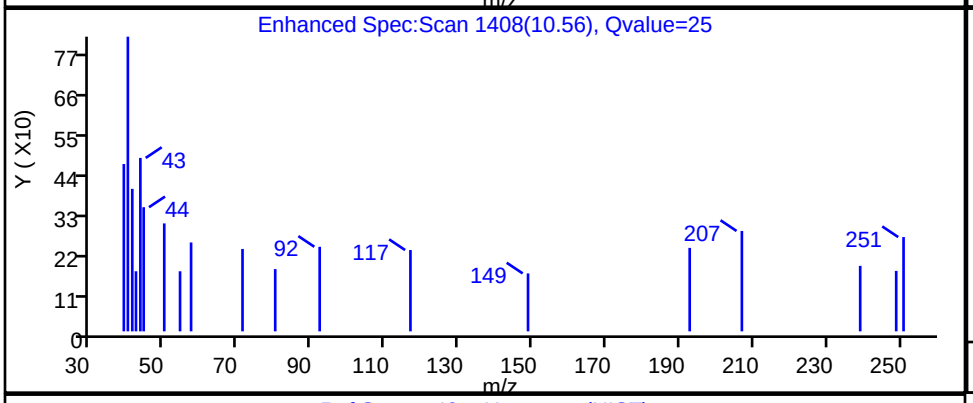
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

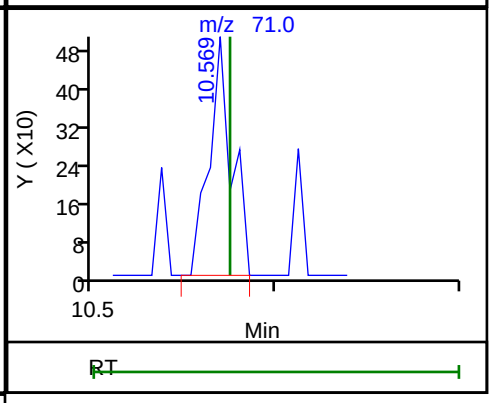
## 49 n-Heptane, CAS: 142-82-5

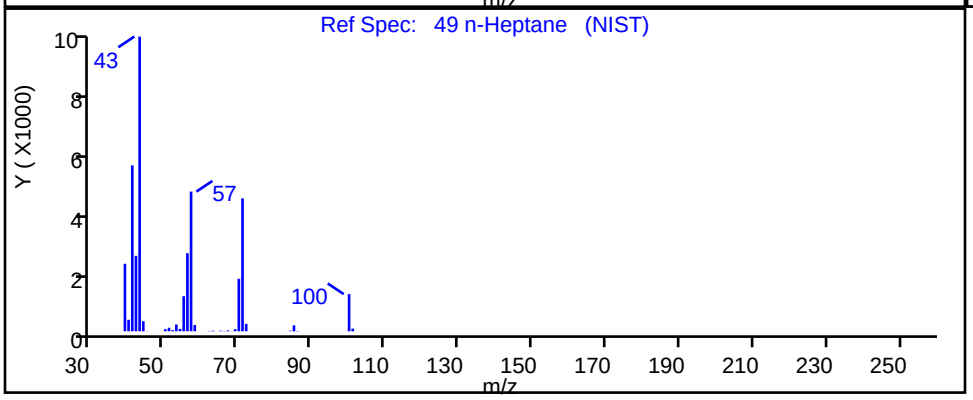
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.56 | 43.00 | 522 | 0.006618 |
| 10.57 | 71.00 | 436 | |

Reviewer: bunmaa, 06-Dec-2018 13:00:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

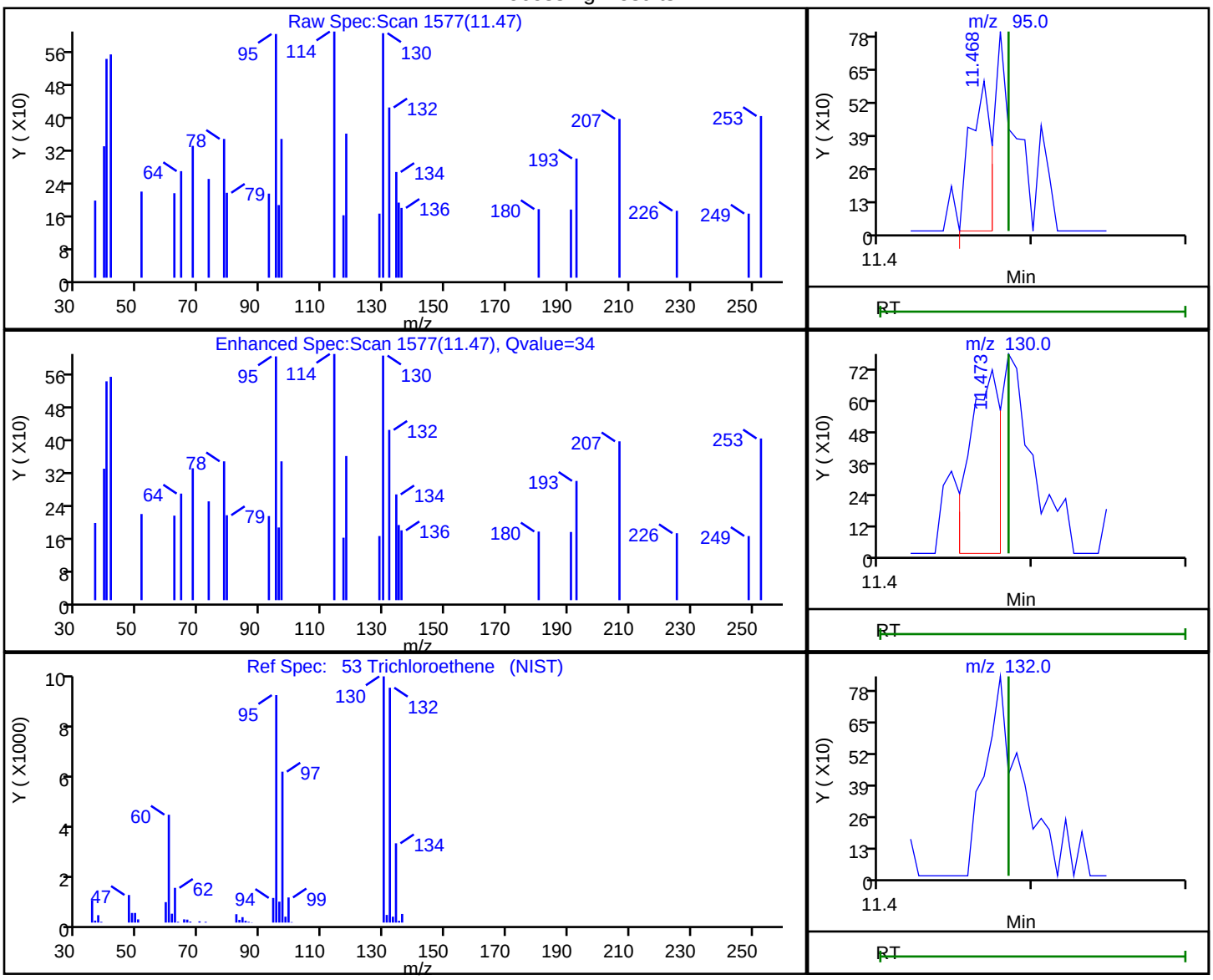
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 11.47 | 95.00 | 561 | 0.005592 |
| 11.47 | 130.00 | 991 | |
| 11.48 | 132.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:00:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

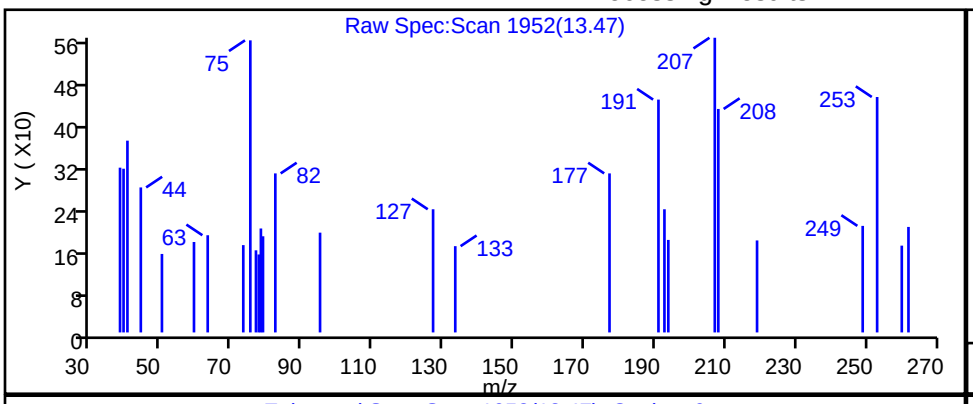
User Disabled Compound Report

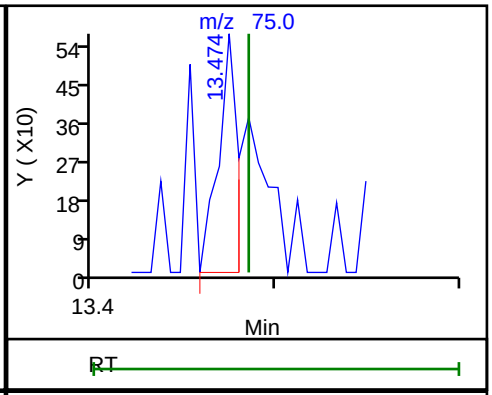
TestAmerica Burlington

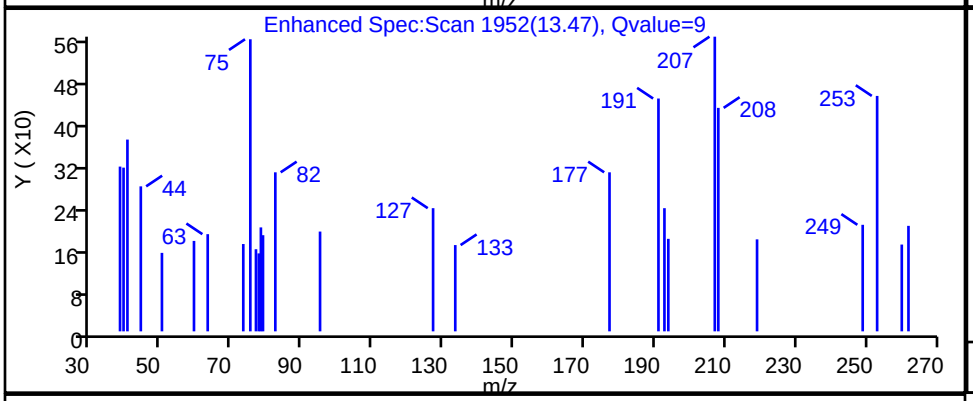
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

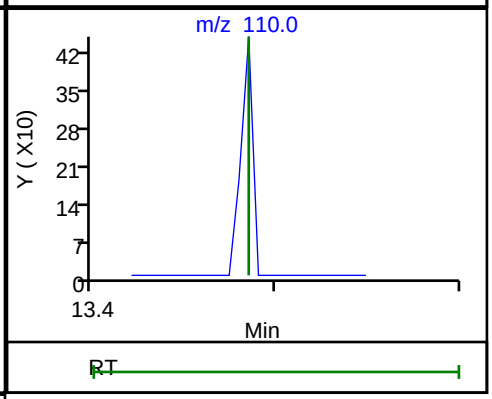
## 60 cis-1,3-Dichloropropene, CAS: 10061-01-5

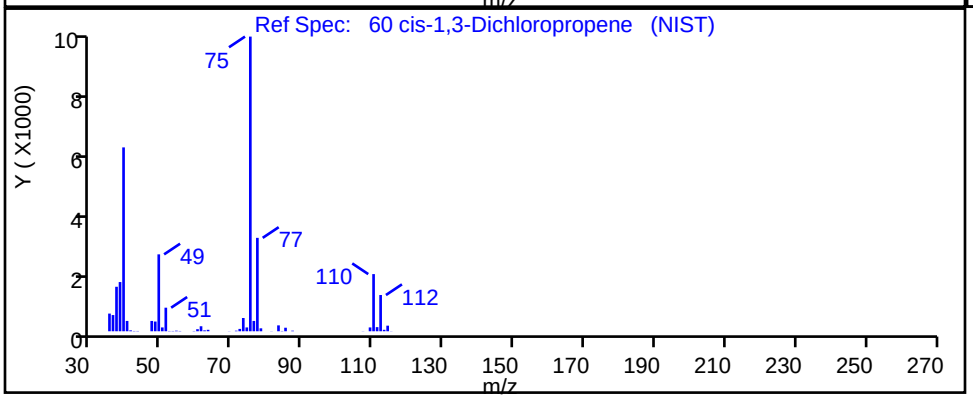
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.47 | 75.00 | 402 | 0.004168 |
| 13.47 | 110.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:01:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

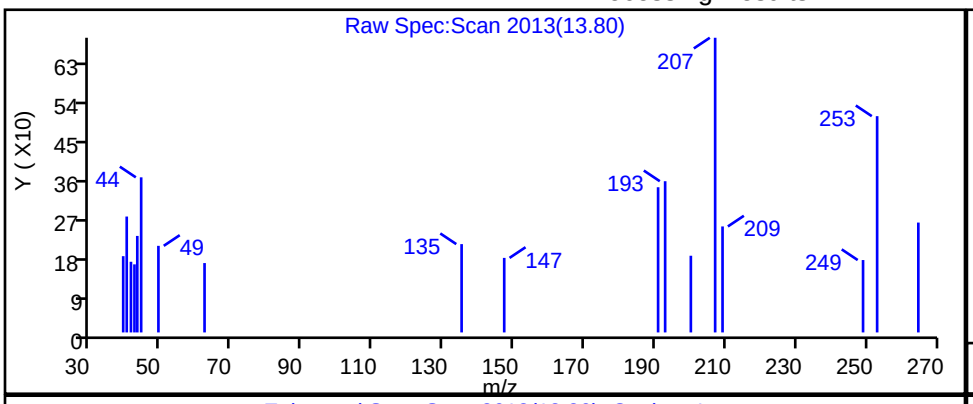
User Disabled Compound Report

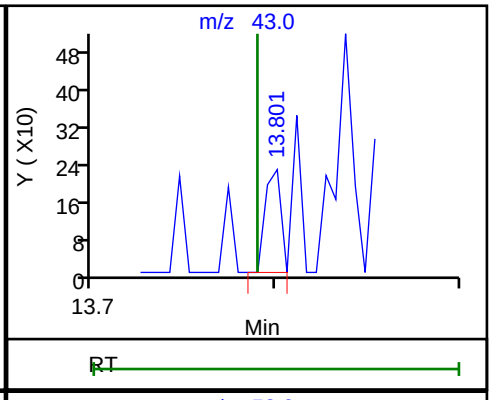
TestAmerica Burlington

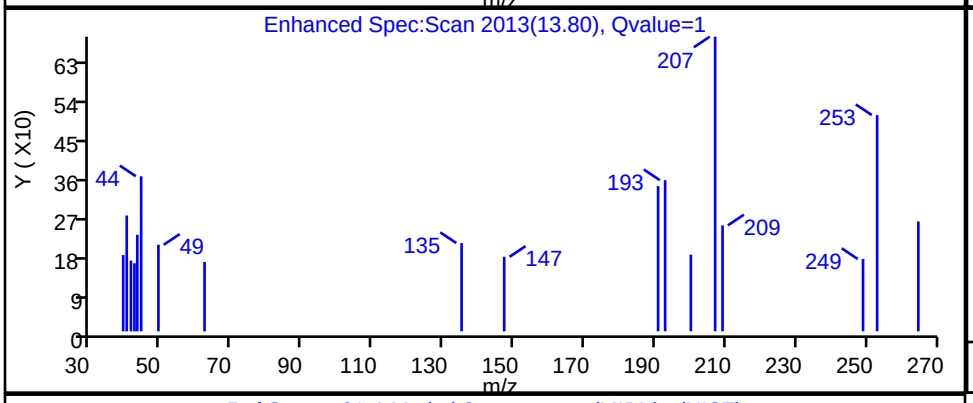
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

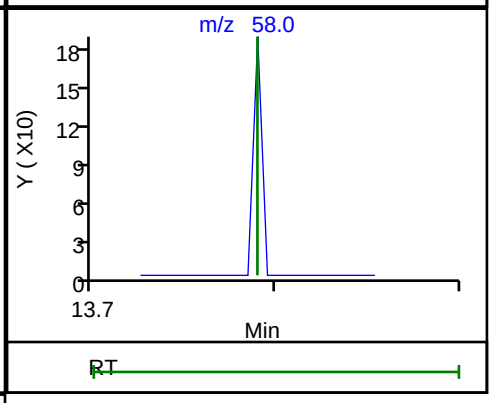
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

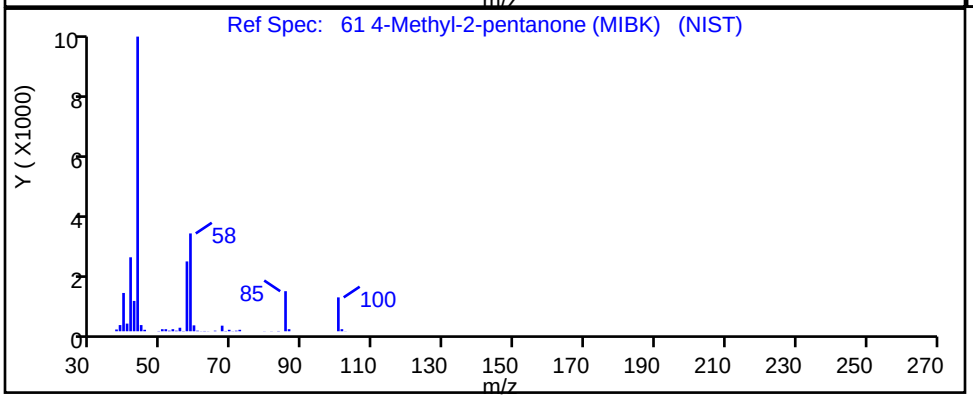
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.80 | 43.00 | 133 | 0.001334 |
| 13.79 | 58.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:01:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

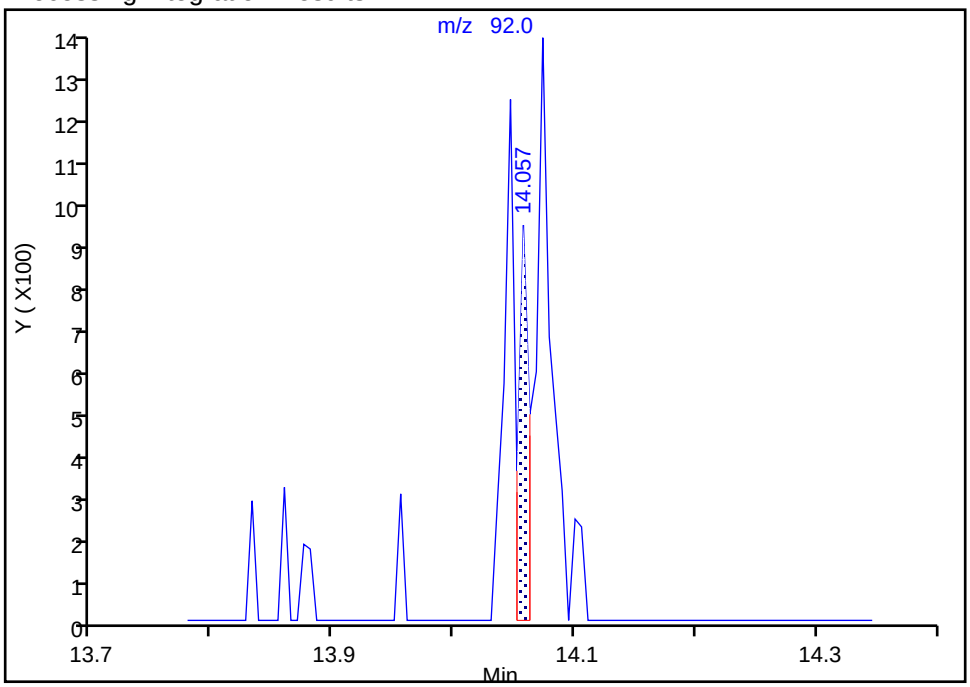
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3

Signal: 1

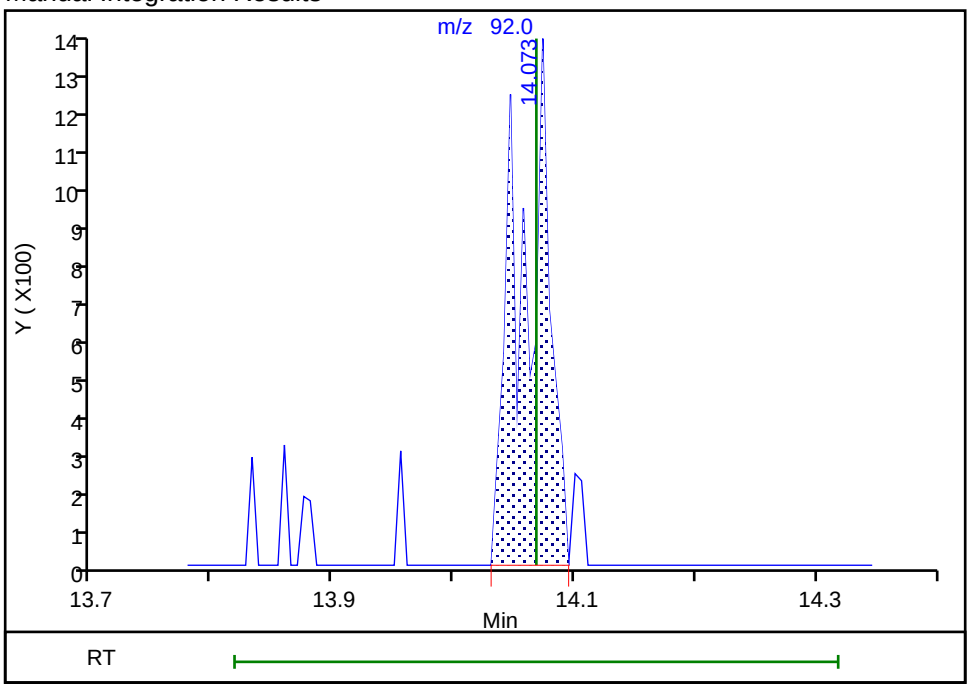
Processing Integration Results

RT: 14.06
Area: 554
Amount: 0.004826
Amount Units: ppb v/v




Manual Integration Results

RT: 14.07
Area: 2274
Amount: 0.019808
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:01:33

Audit Action: Manually Integrated Audit Reason: Assign Peak

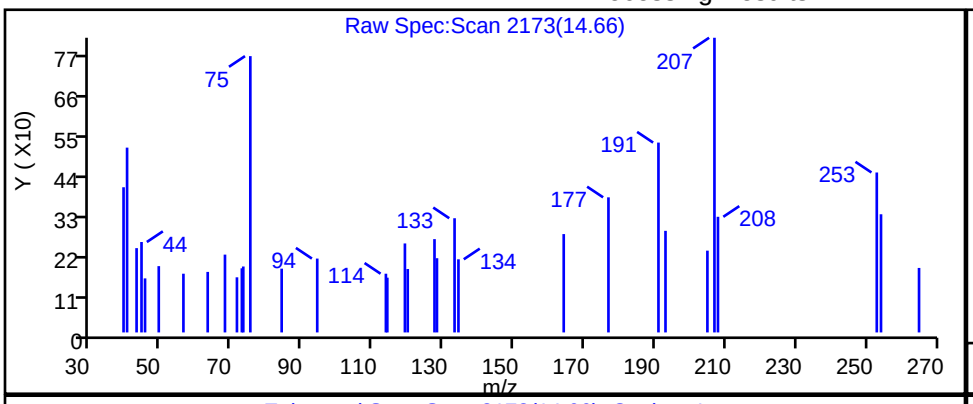
User Disabled Compound Report

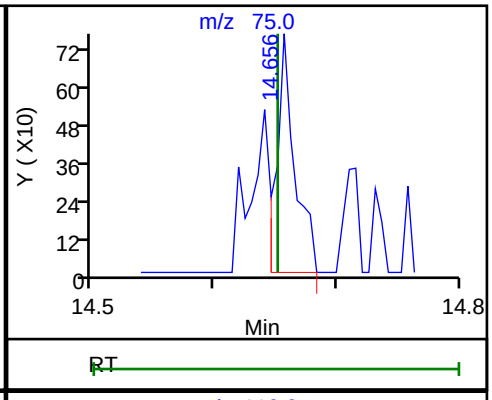
TestAmerica Burlington

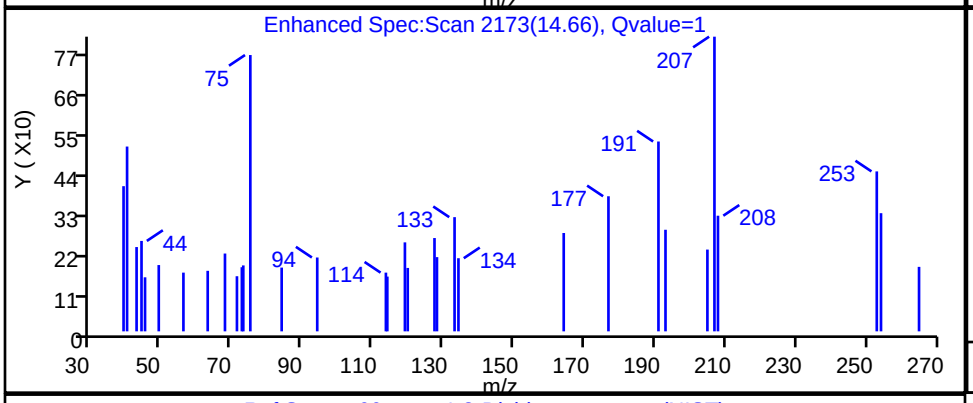
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

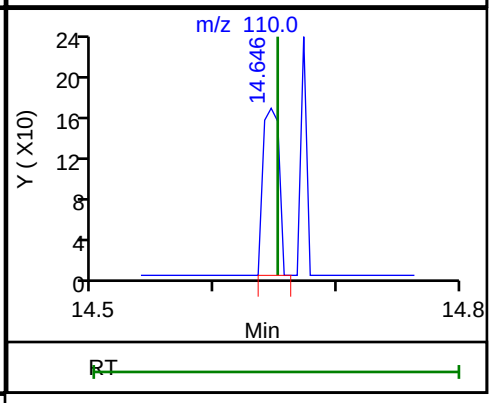
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

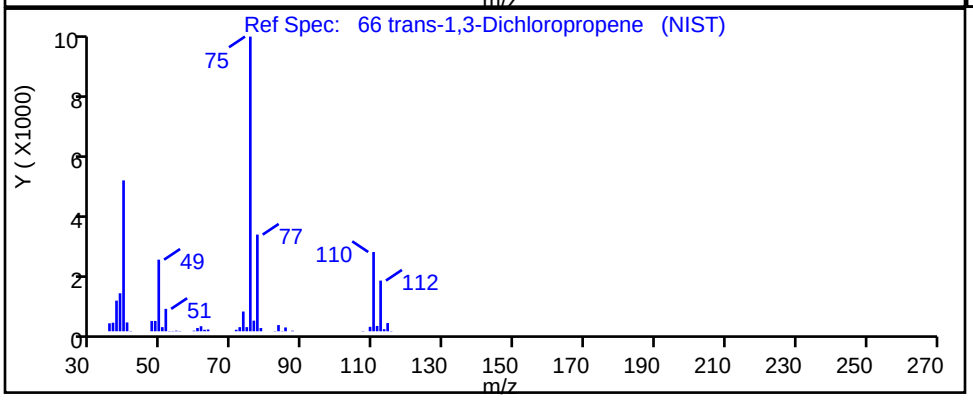
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.66 | 75.00 | 776 | 0.008180 |
| 14.65 | 110.00 | 154 | |

Reviewer: bunmaa, 06-Dec-2018 13:01:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

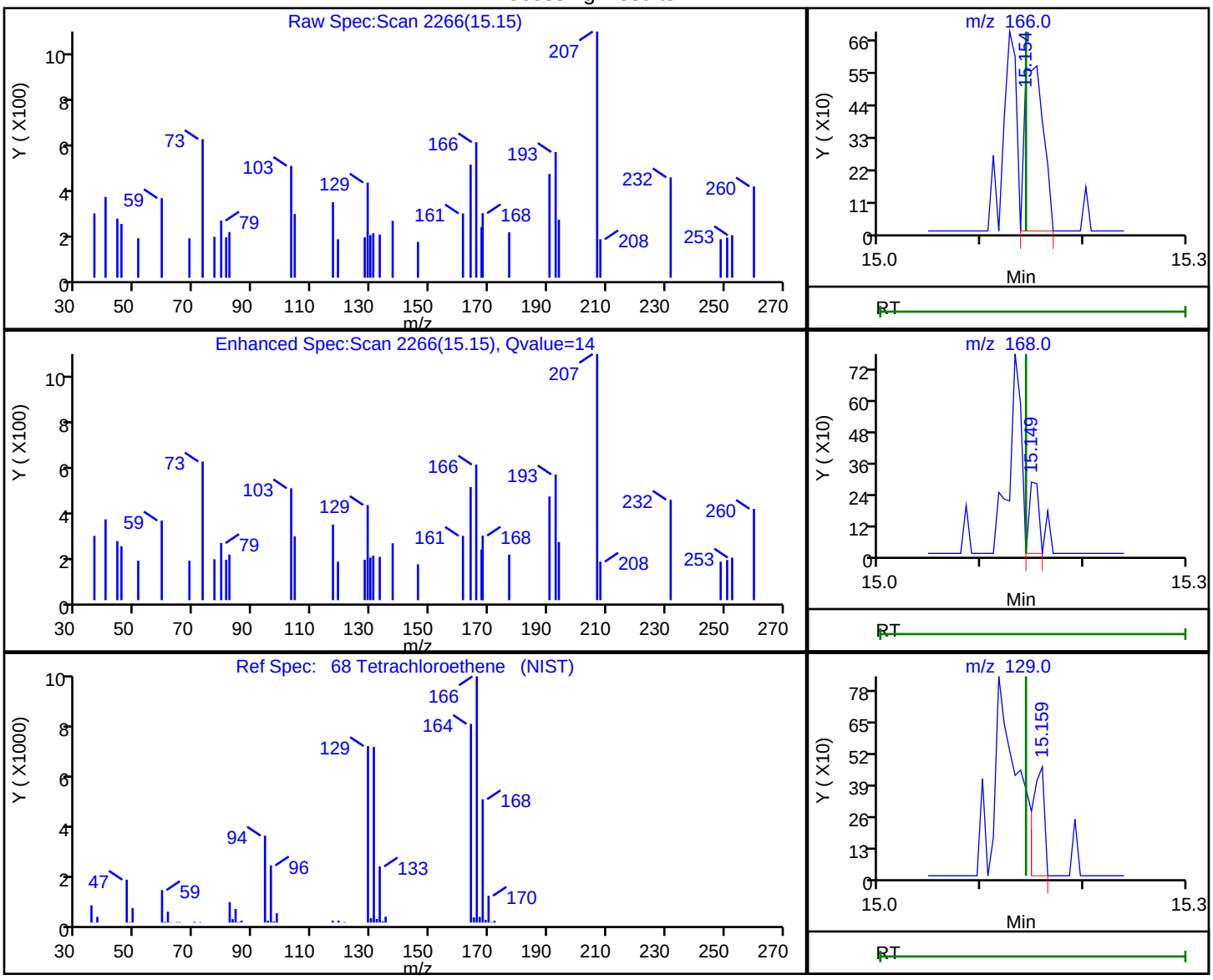
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.15 | 166.00 | 731 | 0.005318 |
| 15.15 | 168.00 | 175 | |
| 15.16 | 129.00 | 361 | |

Reviewer: bunmaa, 06-Dec-2018 13:02:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

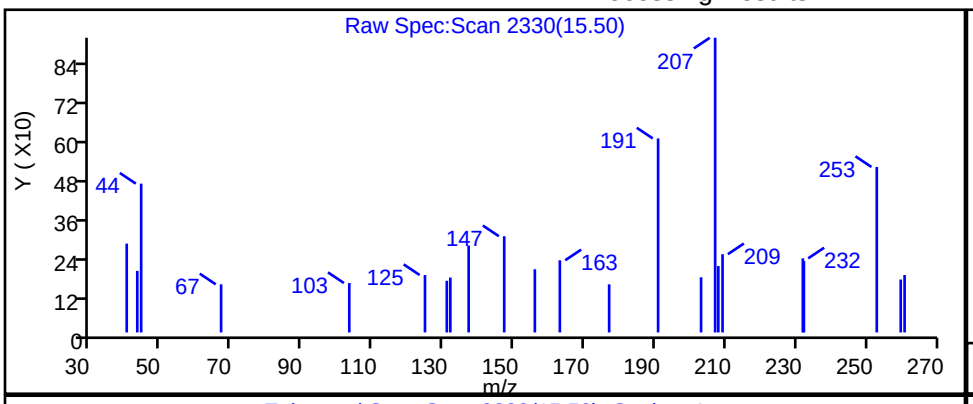
User Disabled Compound Report

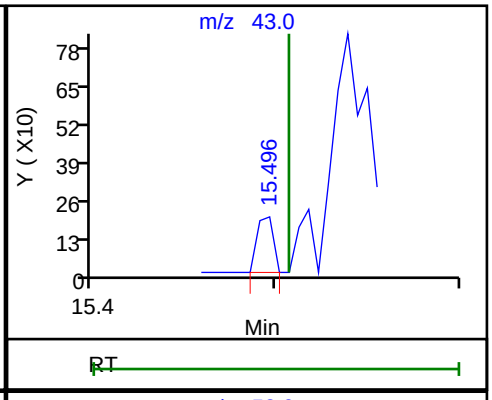
TestAmerica Burlington

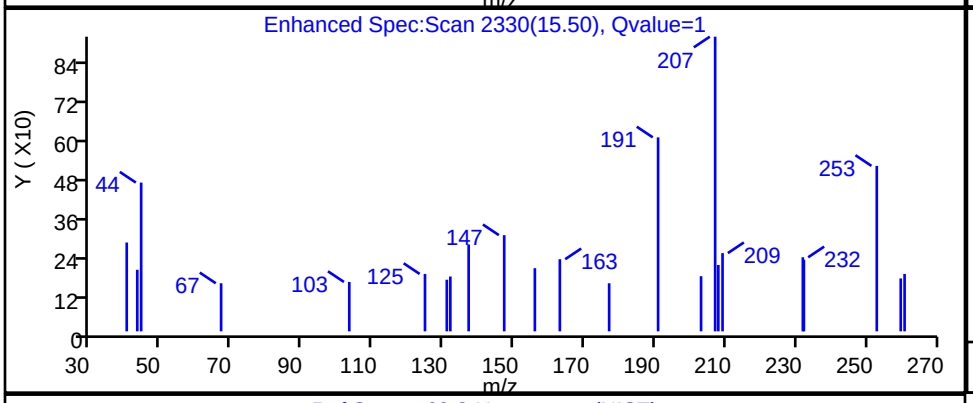
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

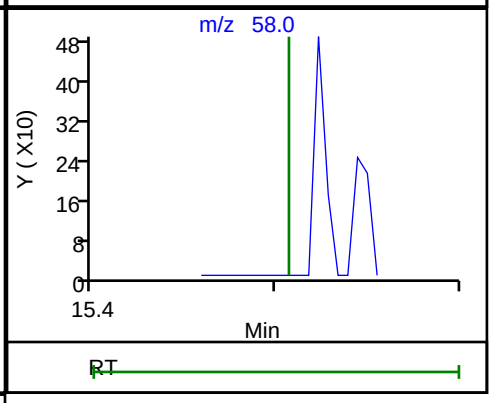
## 69 2-Hexanone, CAS: 591-78-6

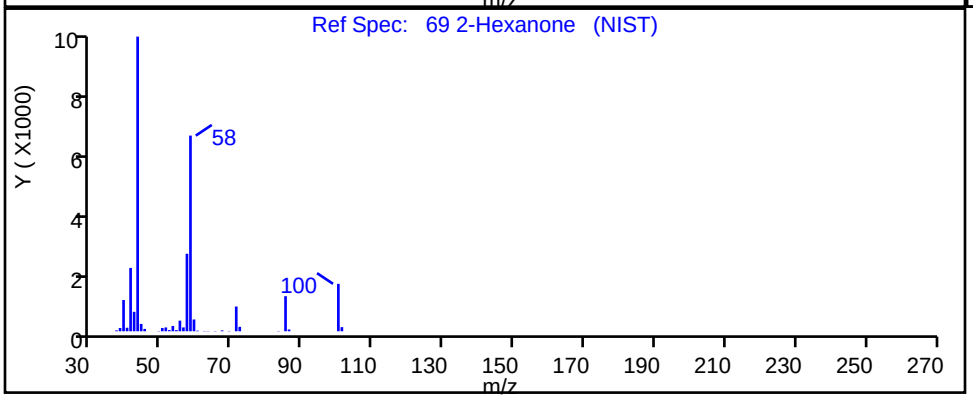
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.50 | 43.00 | 119 | 0.001179 |
| 15.51 | 58.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:02:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 06-Dec-2018 13:09:03 Chrom Revision: 2.3 21-Nov-2018 13:56:44

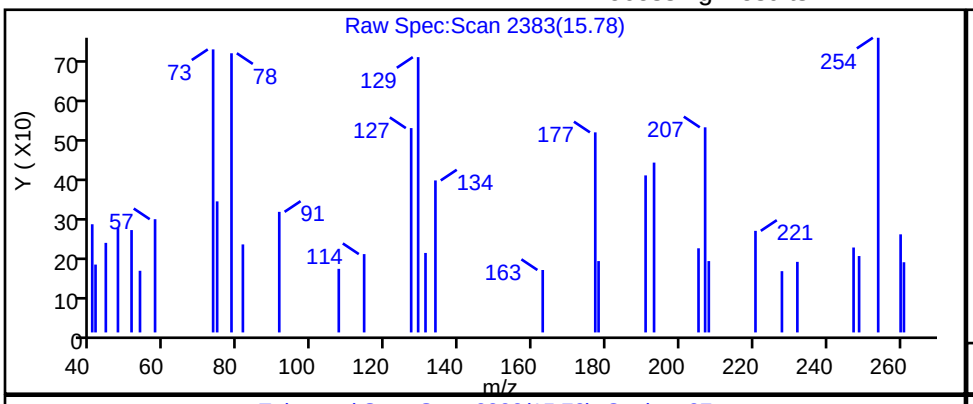
User Disabled Compound Report

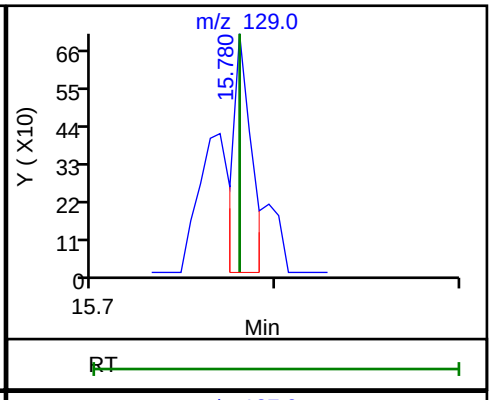
TestAmerica Burlington

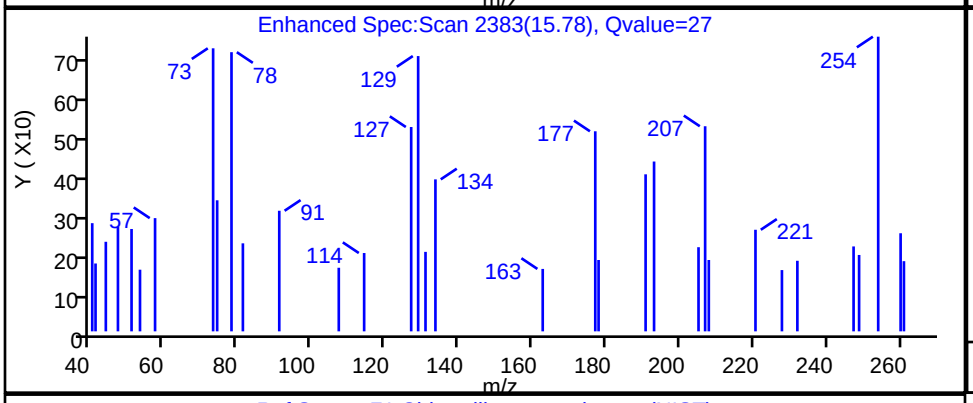
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

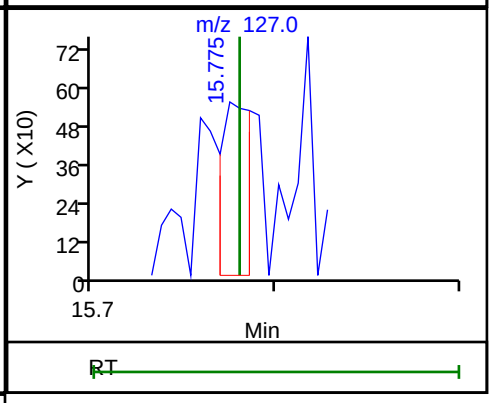
## 71 Chlorodibromomethane, CAS: 124-48-1

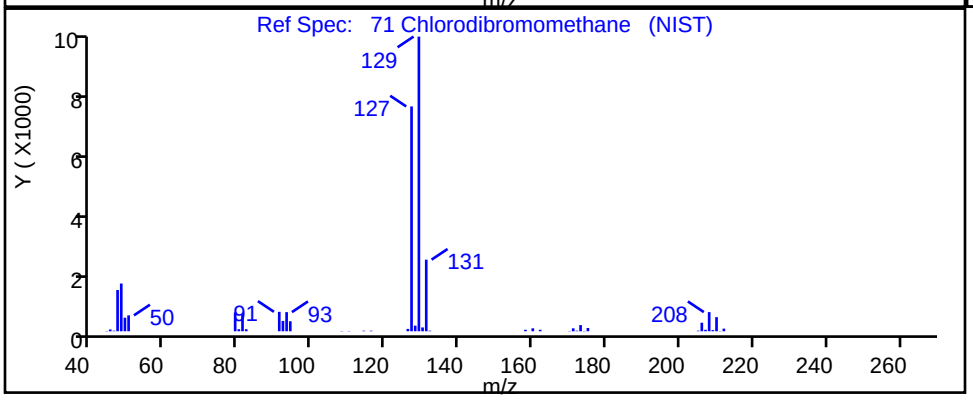
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.78 | 129.00 | 503 | 0.003029 |
| 15.77 | 127.00 | 634 | |

Reviewer: bunmaa, 06-Dec-2018 13:02:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

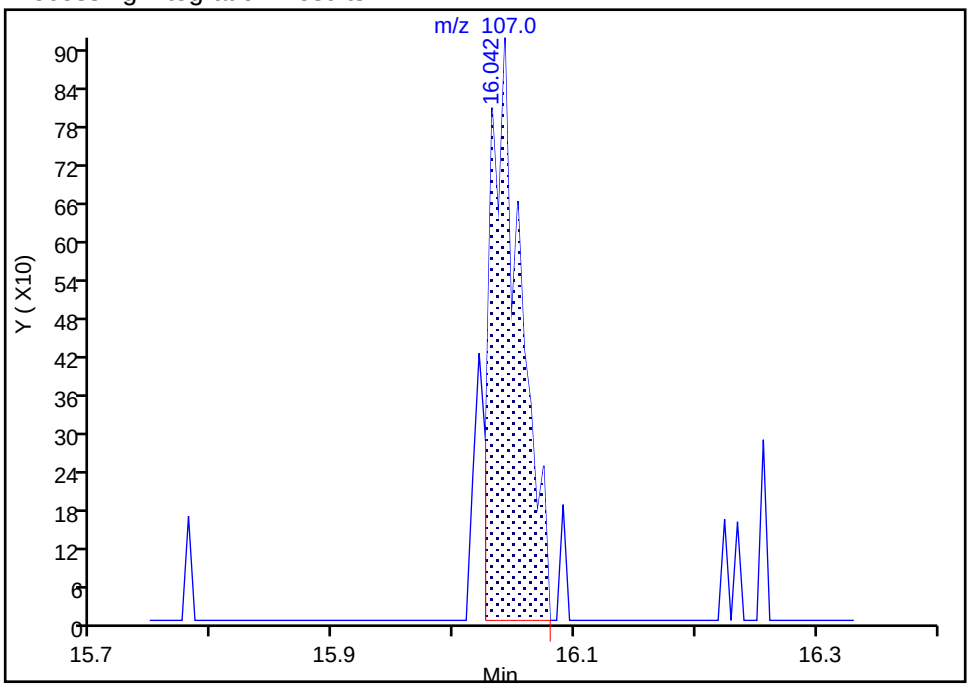
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 72 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

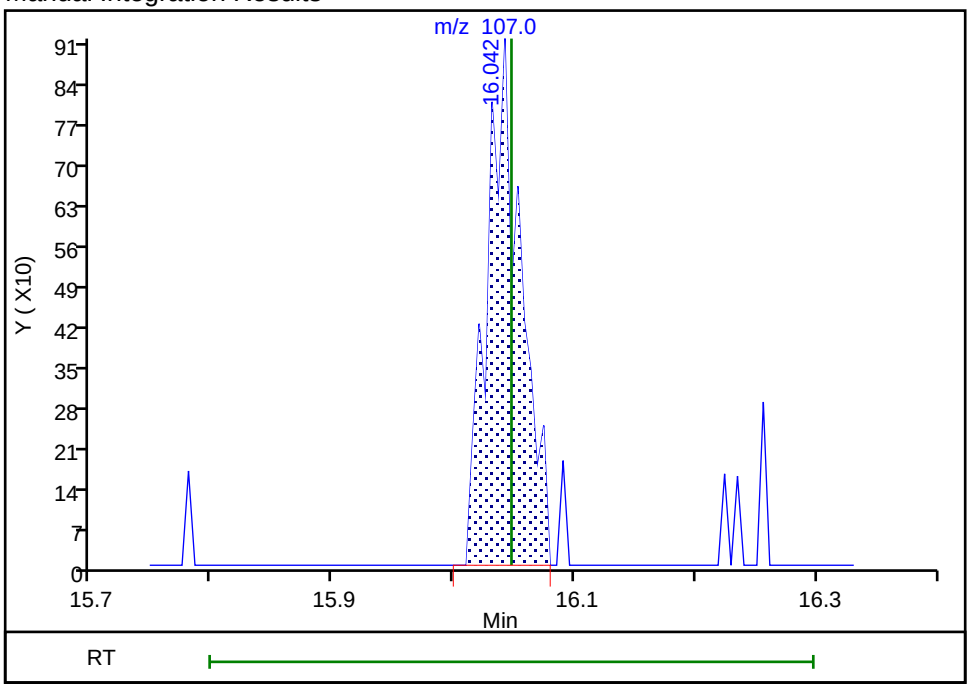
Processing Integration Results

RT: 16.04
Area: 1584
Amount: 0.012628
Amount Units: ppb v/v




Manual Integration Results

RT: 16.04
Area: 1791
Amount: 0.014278
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:02:46

Audit Action: Manually Integrated Audit Reason: Assign Peak

Report Date: 06-Dec-2018 13:09:03 Chrom Revision: 2.3 21-Nov-2018 13:56:44

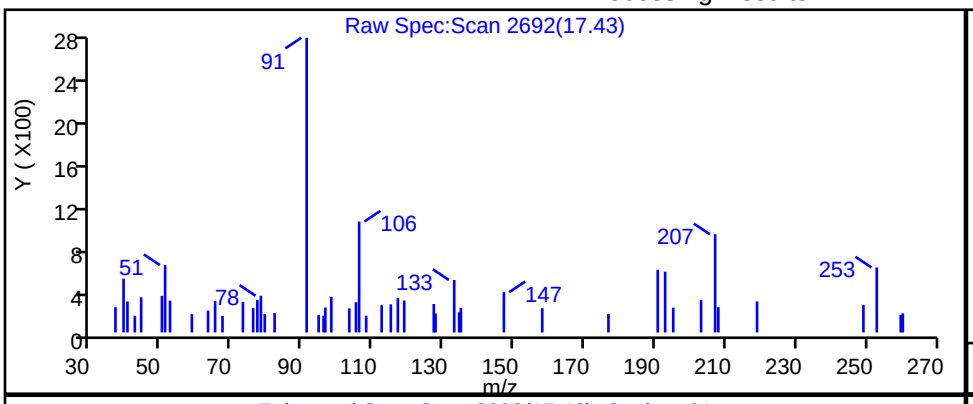
User Disabled Compound Report

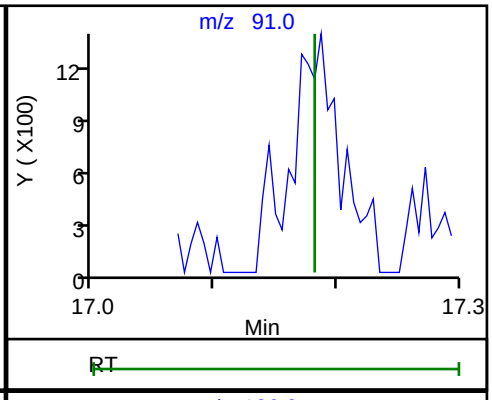
TestAmerica Burlington

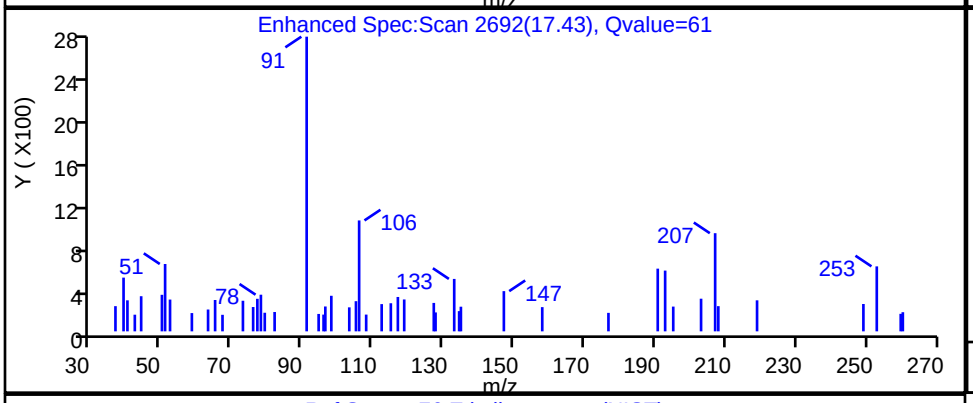
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

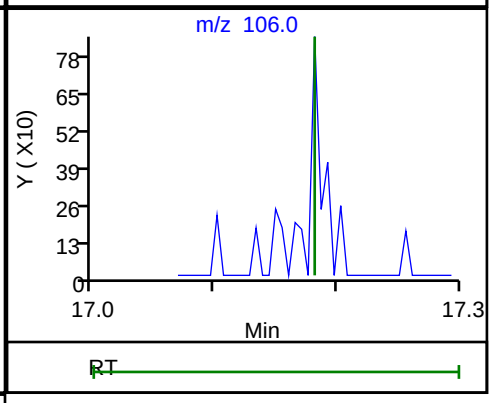
## 76 Ethylbenzene, CAS: 100-41-4

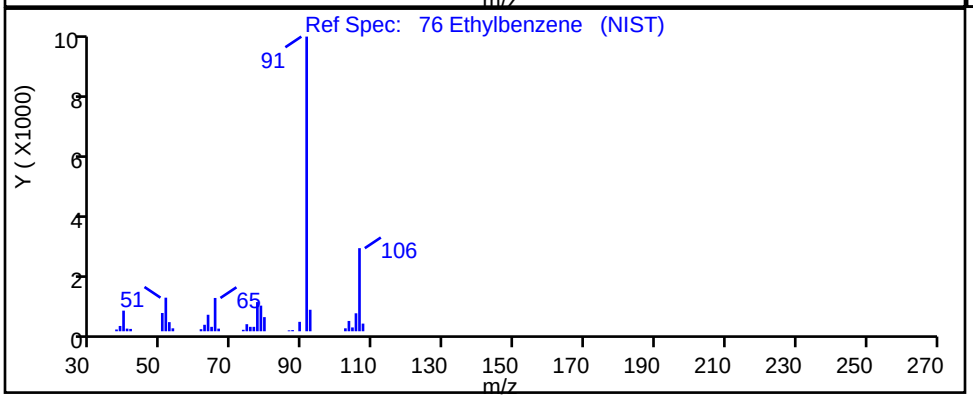
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.43 | 91.00 | 3512 | 0.013585 |
| 17.44 | 106.00 | 2485 | |

Reviewer: bunmaa, 06-Dec-2018 13:03:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

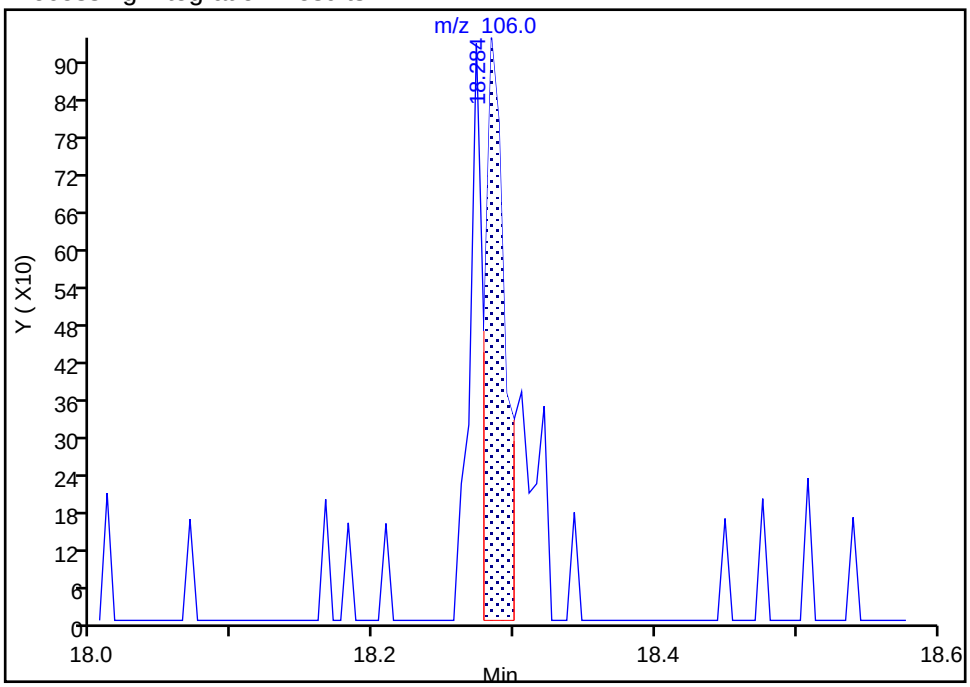
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 79 o-Xylene, CAS: 95-47-6

Signal: 1

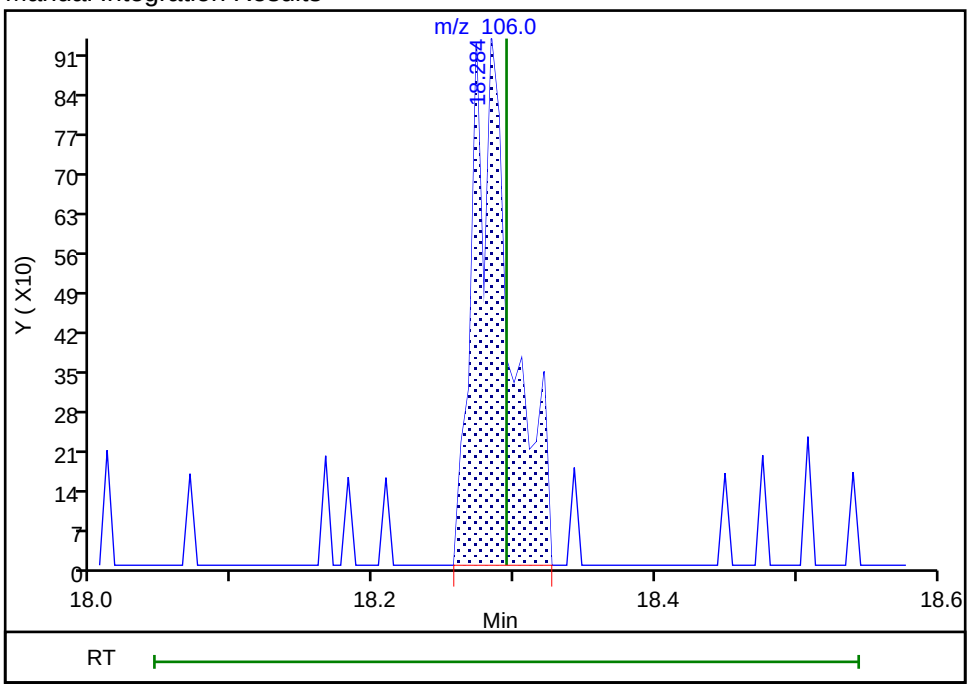
Processing Integration Results

RT: 18.28
Area: 929
Amount: 0.009328
Amount Units: ppb v/v




Manual Integration Results

RT: 18.28
Area: 1765
Amount: 0.017722
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:03:56
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

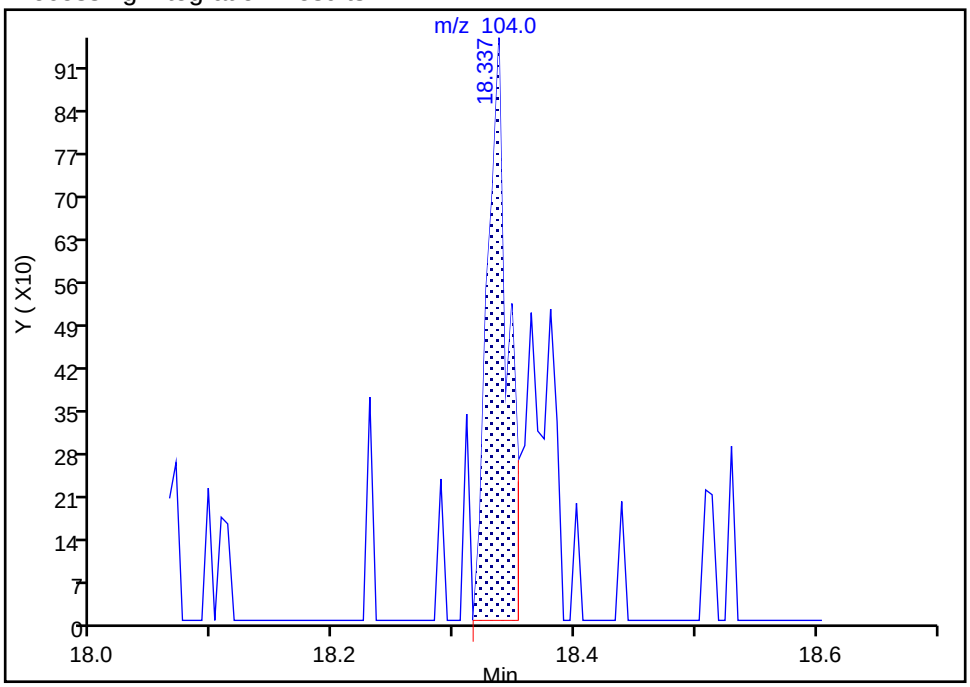
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Signal: 1

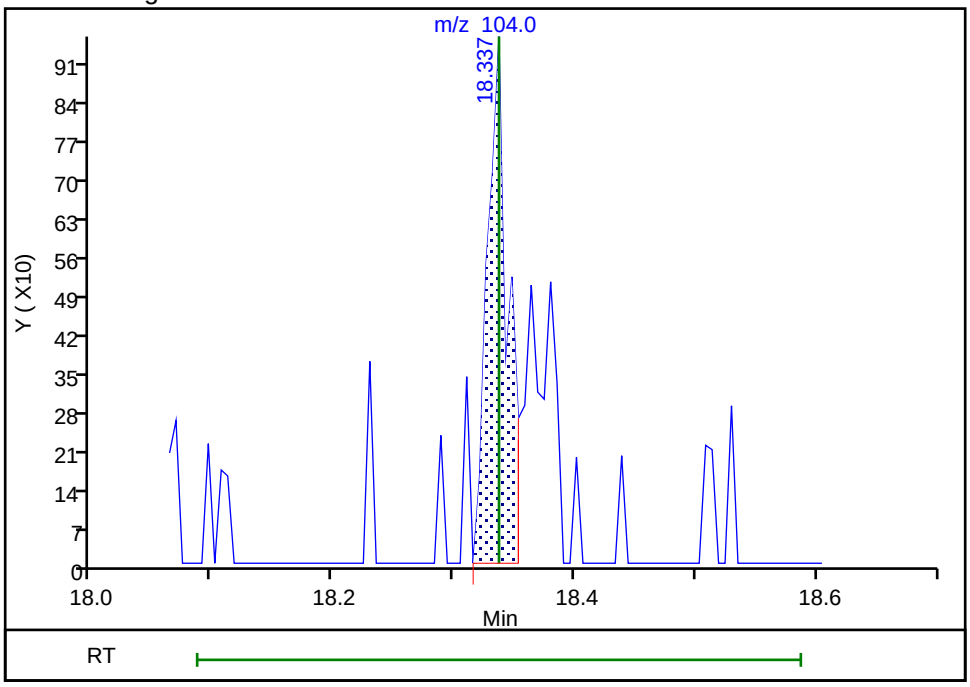
Processing Integration Results

RT: 18.34
Area: 1129
Amount: 0.007405
Amount Units: ppb v/v




Manual Integration Results

RT: 18.34
Area: 1129
Amount: 0.007405
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:04:17
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

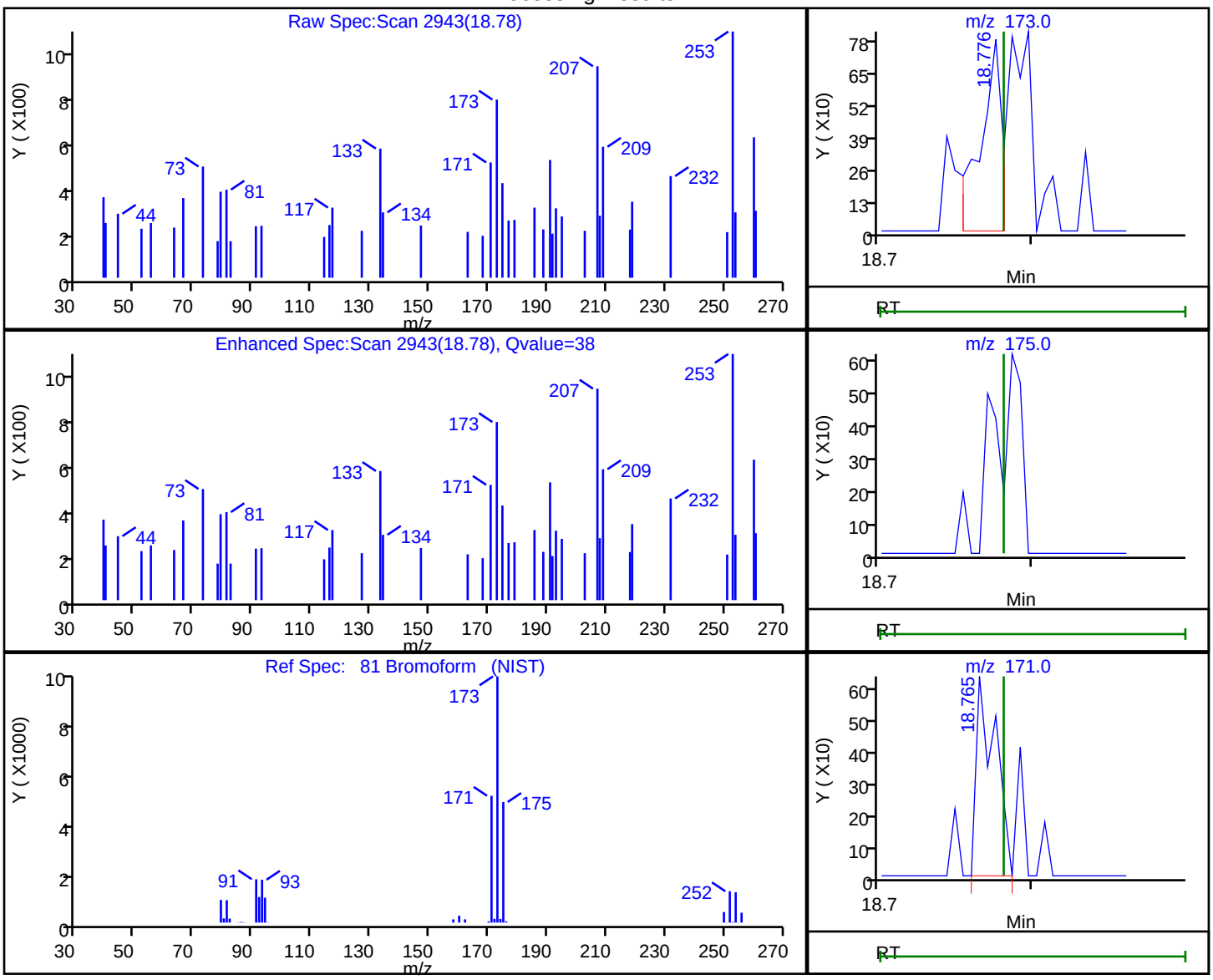
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 81 Bromoform, CAS: 75-25-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.78 | 173.00 | 776 | 0.005165 |
| 18.78 | 175.00 | 0 | |
| 18.77 | 171.00 | 553 | |

Reviewer: bunmaa, 06-Dec-2018 13:04:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

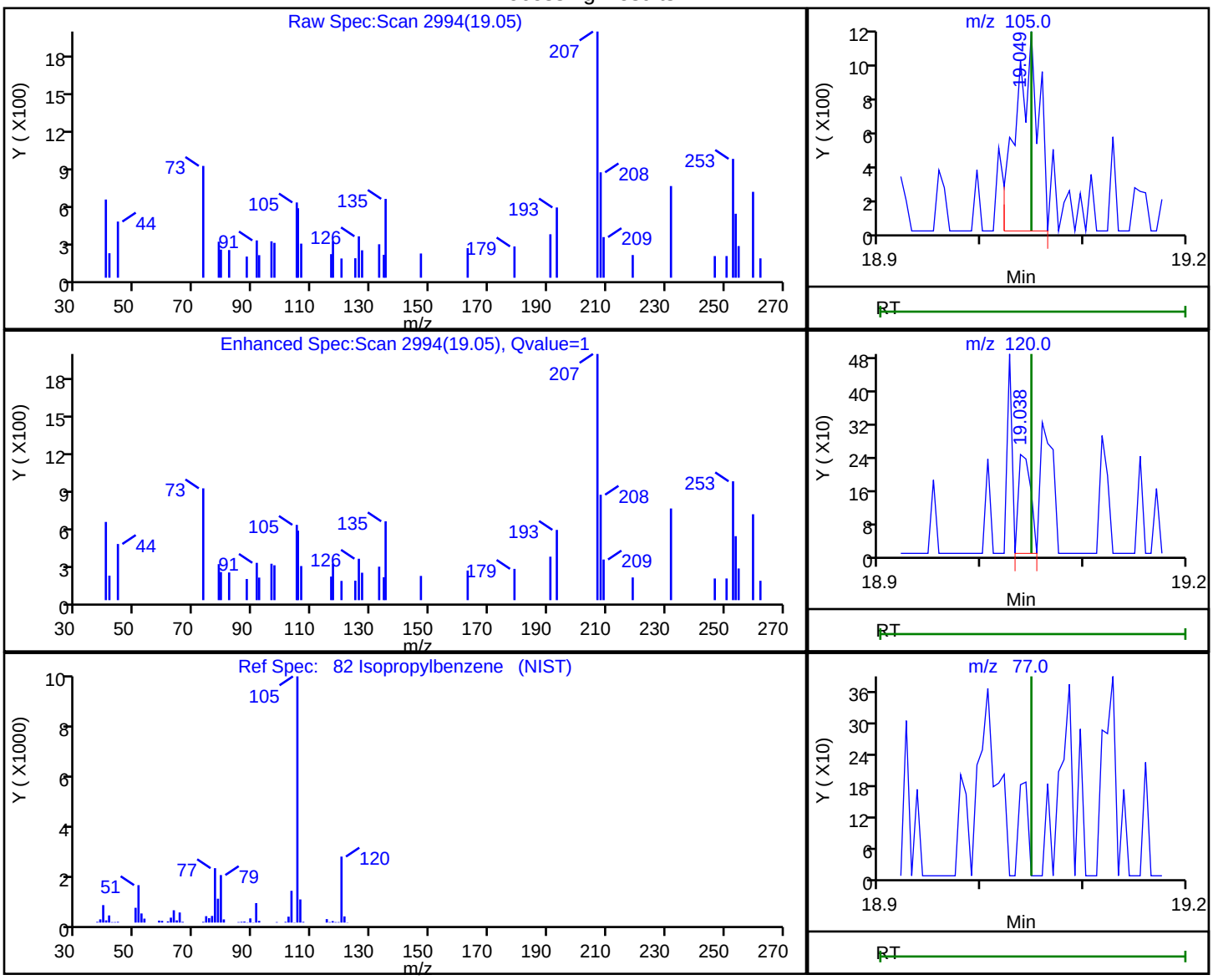
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.05 | 105.00 | 1723 | 0.005917 |
| 19.04 | 120.00 | 199 | |
| 19.04 | 77.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:04:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

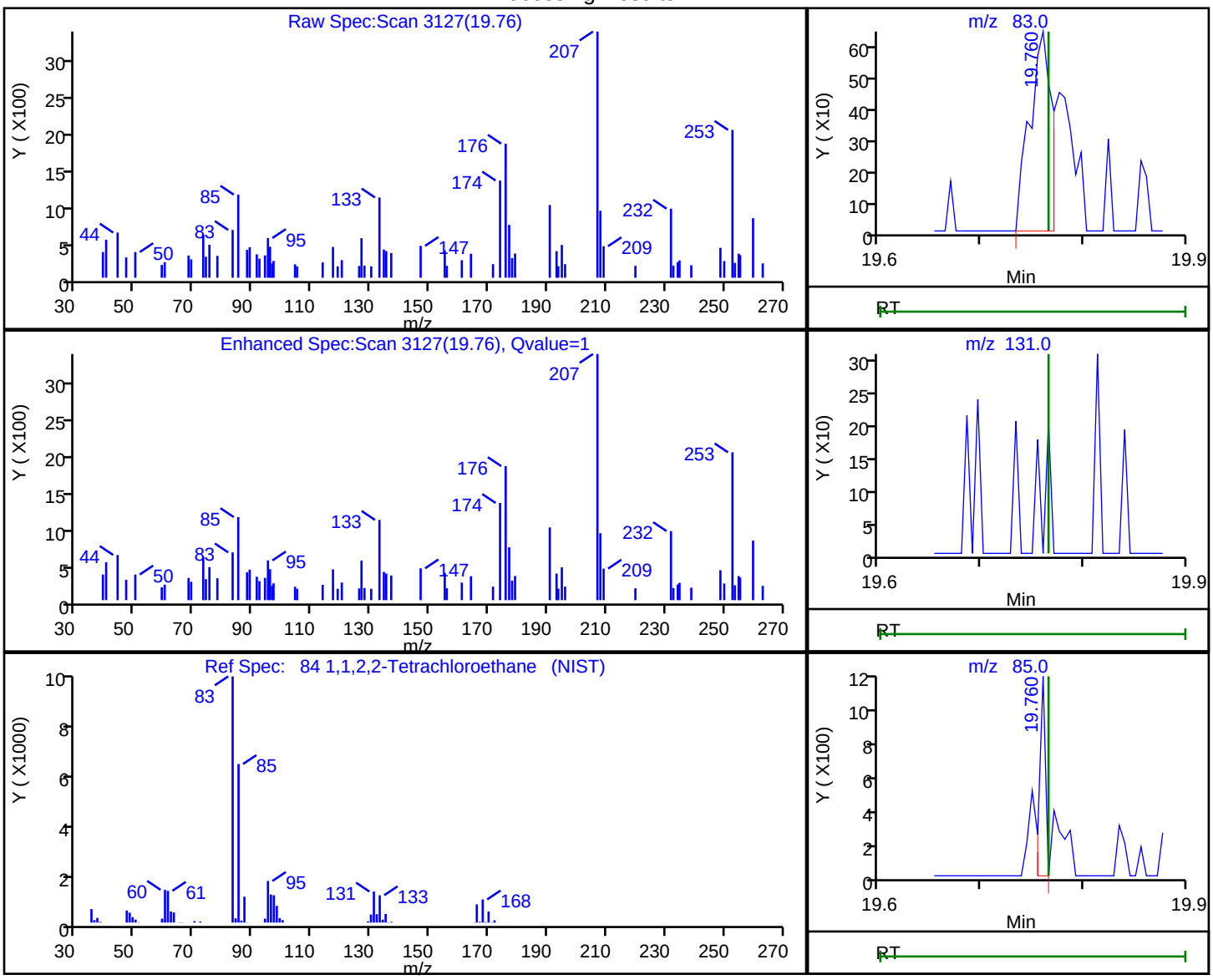
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.76 | 83.00 | 961 | 0.006048 |
| 19.77 | 131.00 | 0 | |
| 19.76 | 85.00 | 437 | |

Reviewer: bunmaa, 06-Dec-2018 13:04:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

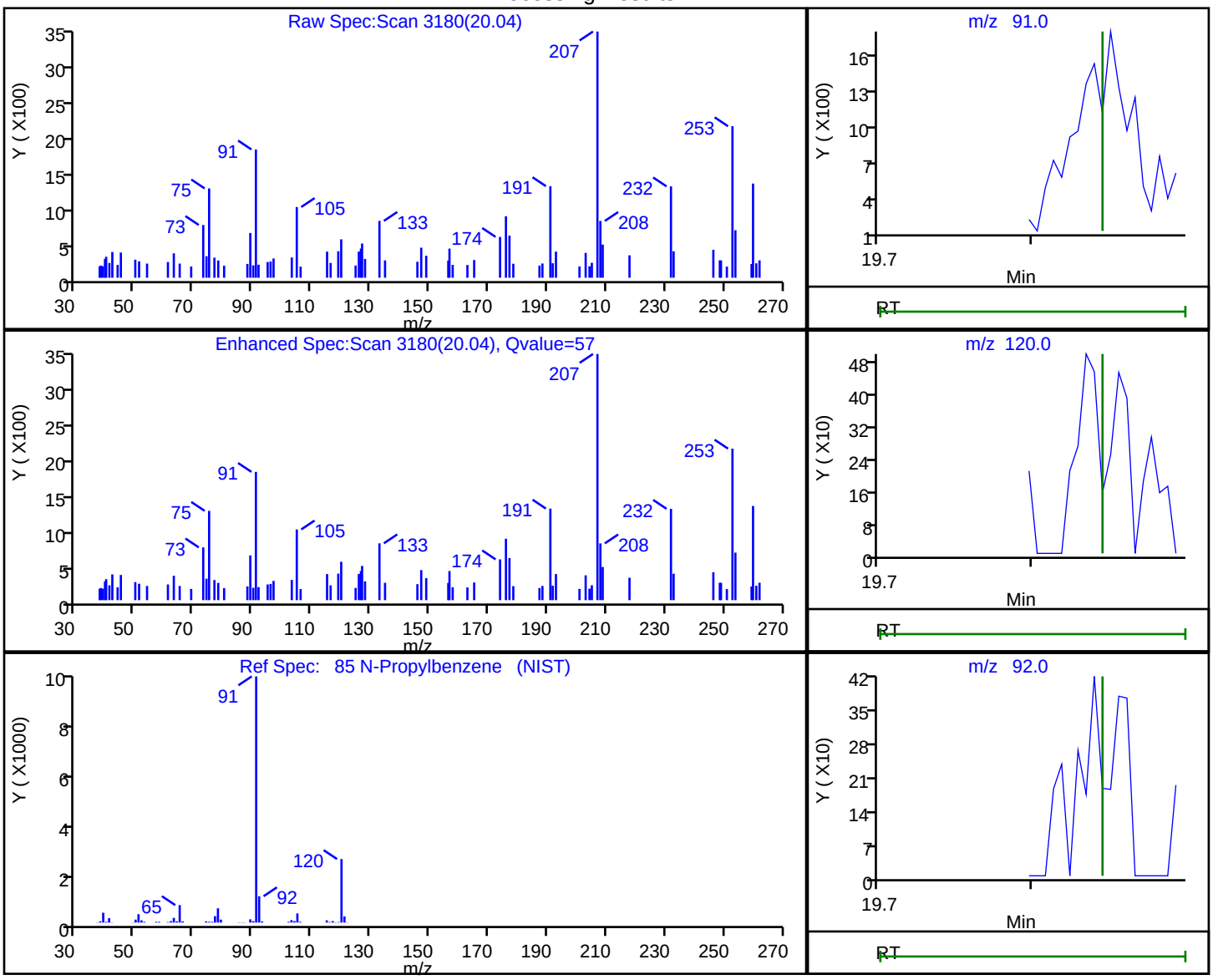
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.04 | 91.00 | 767 | 0.002212 |
| 20.04 | 120.00 | 478 | |
| 19.85 | 92.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:05:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

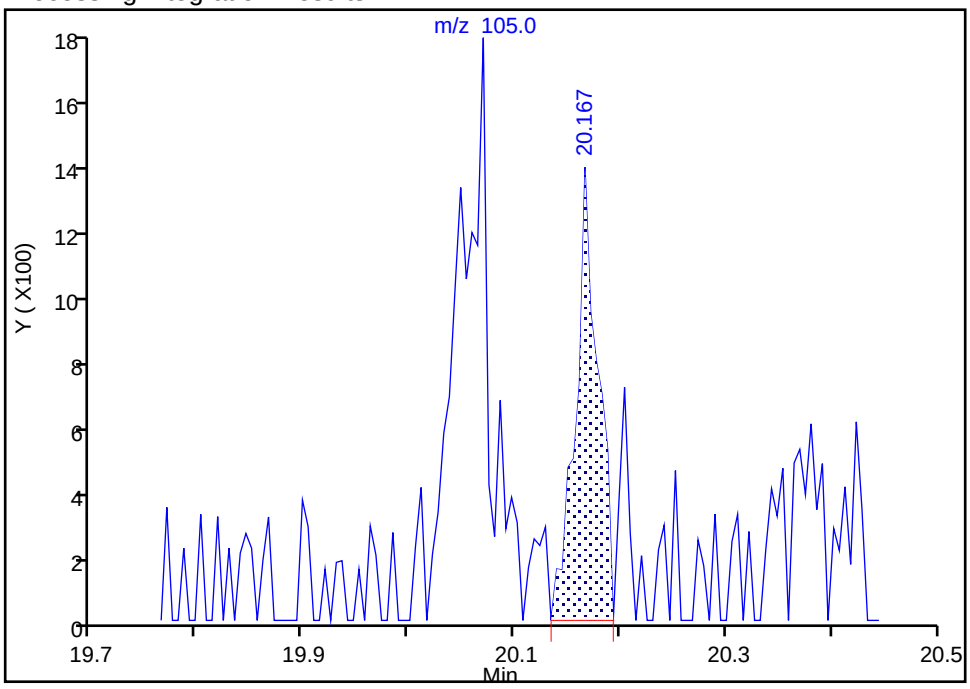
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

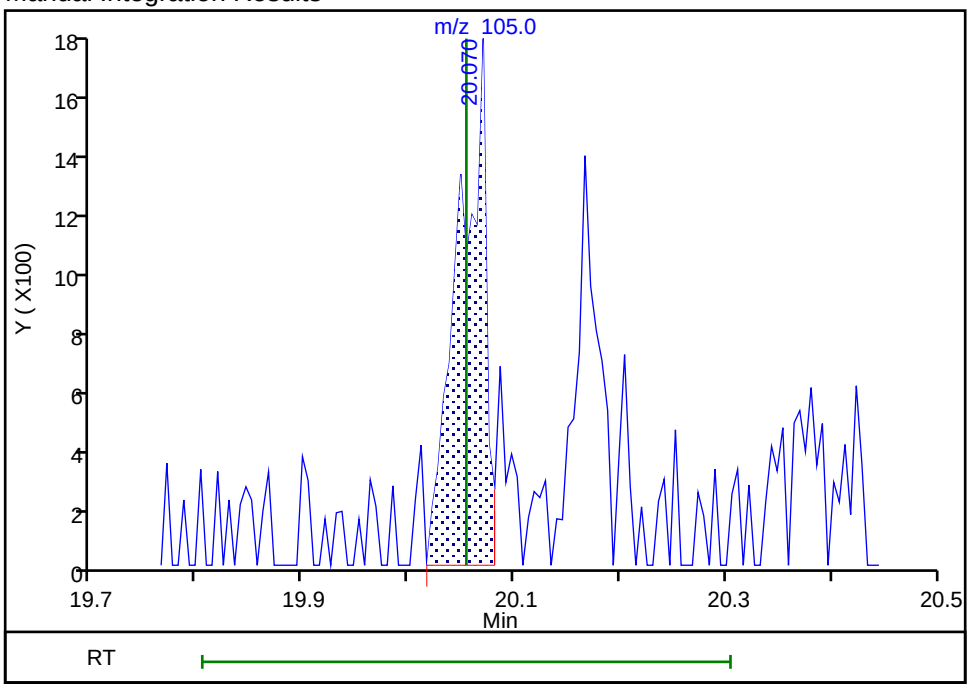
Processing Integration Results

RT: 20.17
Area: 2006
Amount: 0.006795
Amount Units: ppb v/v




Manual Integration Results

RT: 20.07
Area: 3153
Amount: 0.010681
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:06:09

Audit Action: Manually Integrated Audit Reason: Assign Peak

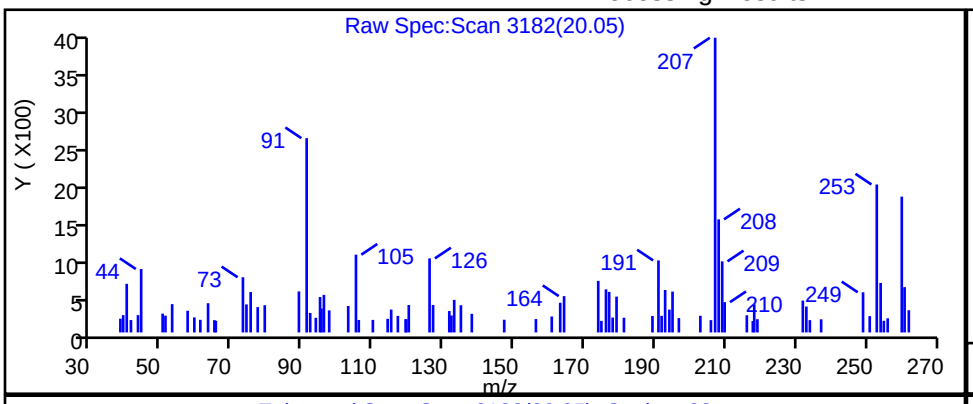
User Disabled Compound Report

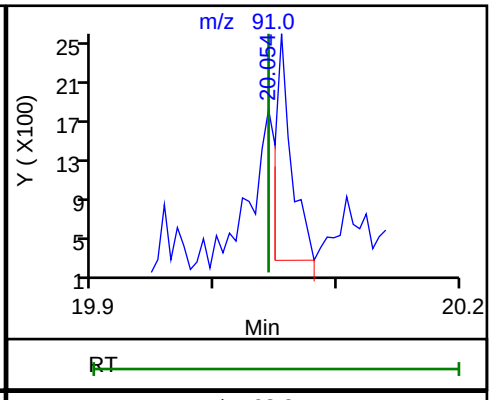
TestAmerica Burlington

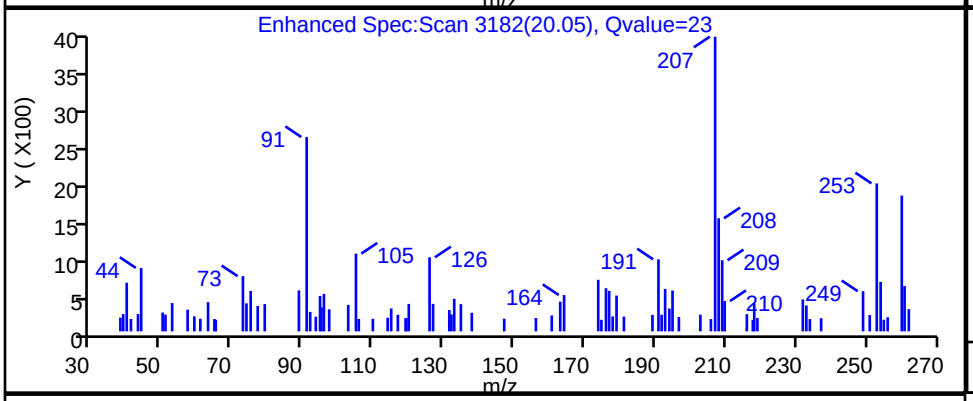
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

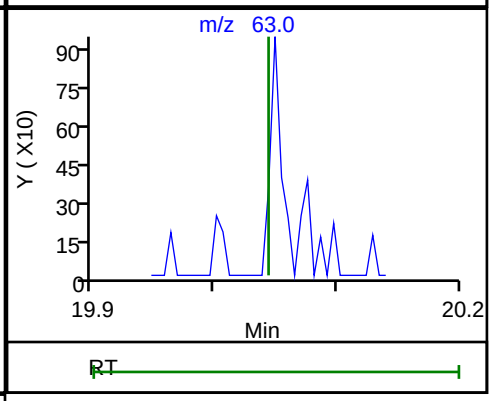
## 89 2-Chlorotoluene, CAS: 95-49-8

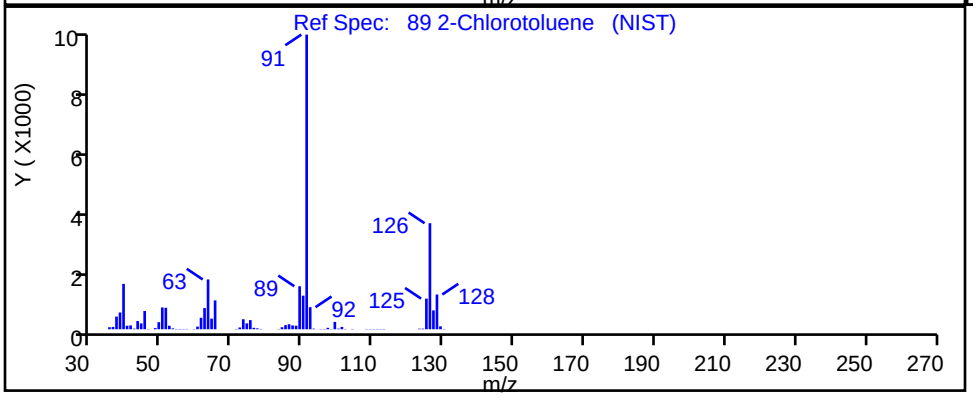
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.05 | 91.00 | 1977 | 0.007549 |
| 20.05 | 63.00 | 0 | |

Reviewer: bunmaa, 06-Dec-2018 13:05:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

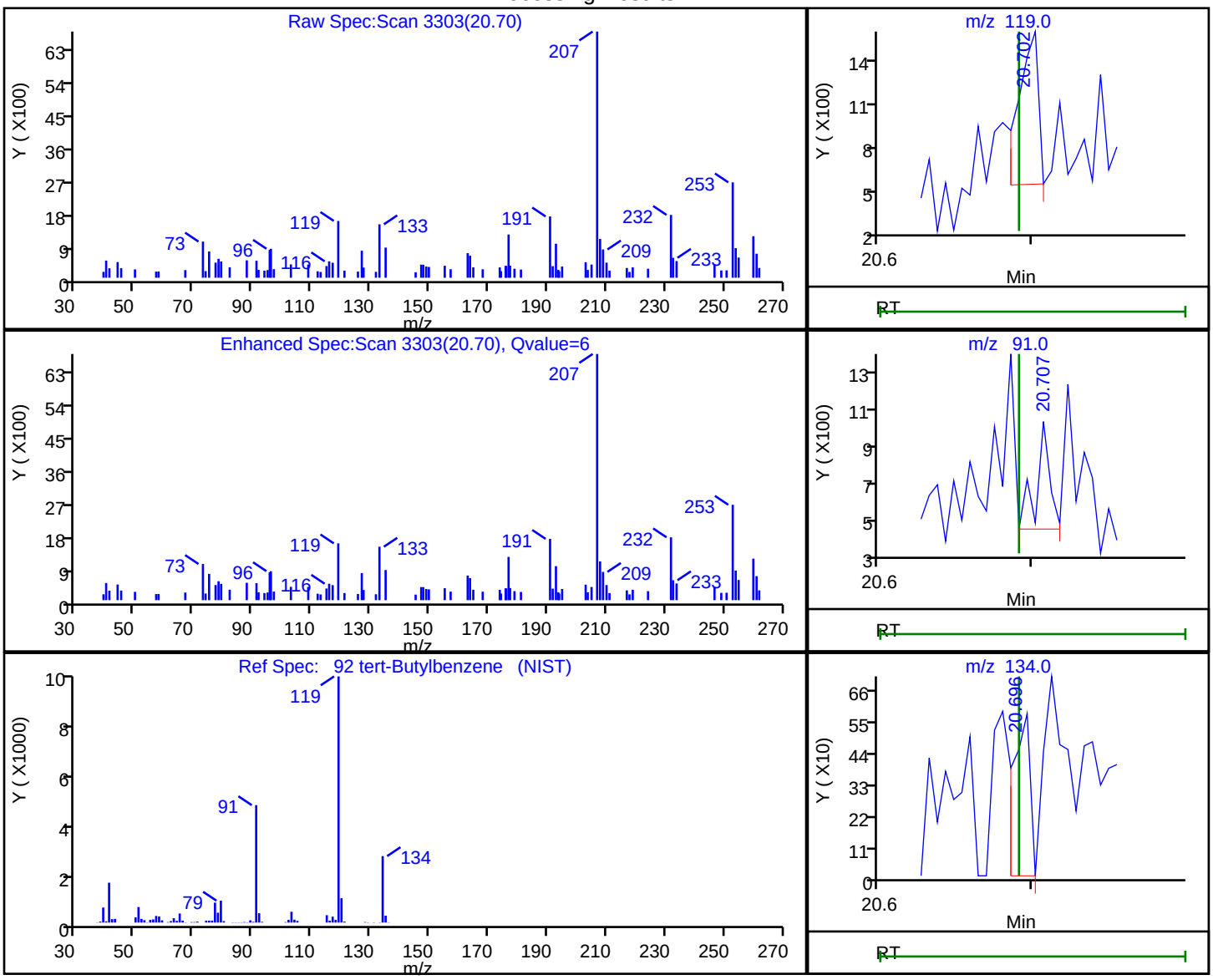
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.70 | 119.00 | 872 | 0.003691 |
| 20.71 | 91.00 | 344 | |
| 20.70 | 134.00 | 447 | |

Reviewer: bunmaa, 06-Dec-2018 13:06:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

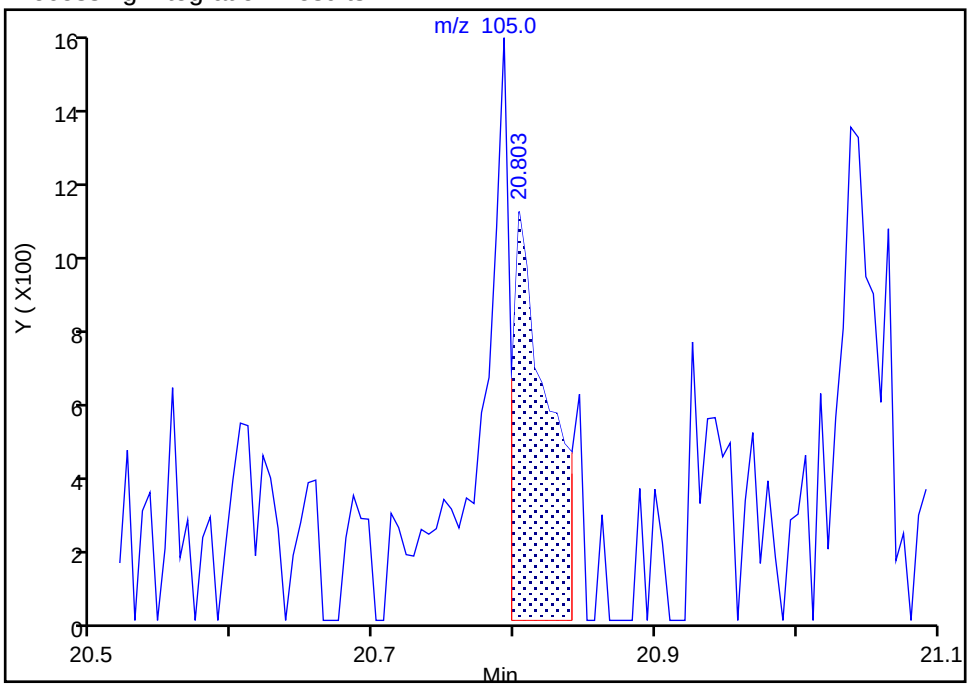
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

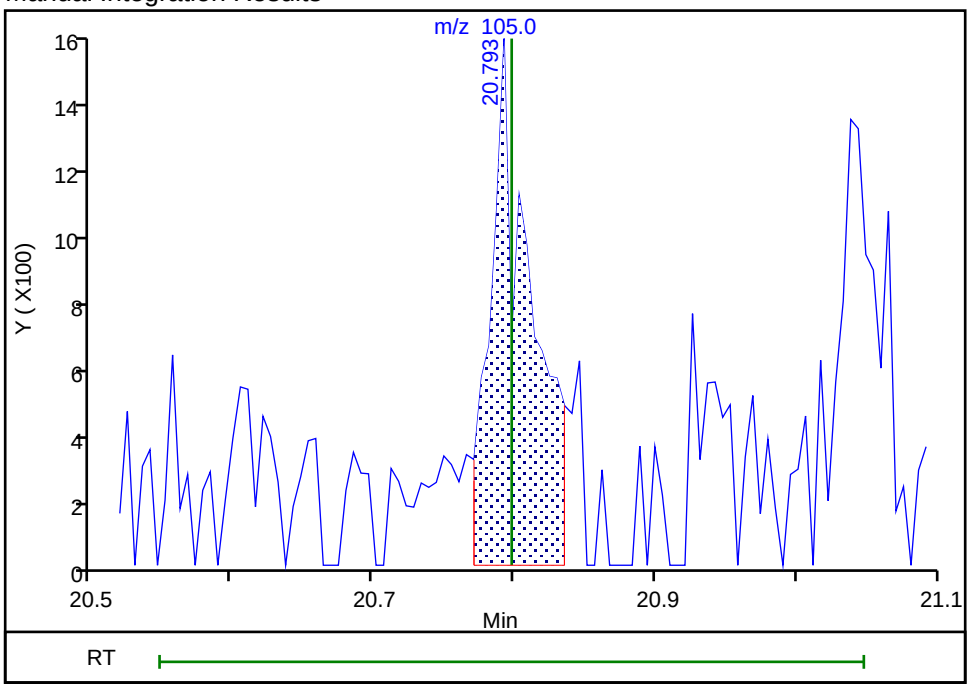
Processing Integration Results

RT: 20.80
Area: 1982
Amount: 0.007954
Amount Units: ppb v/v




Manual Integration Results

RT: 20.79
Area: 3191
Amount: 0.012806
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:07:07

Audit Action: Manually Integrated Audit Reason: Assign Peak

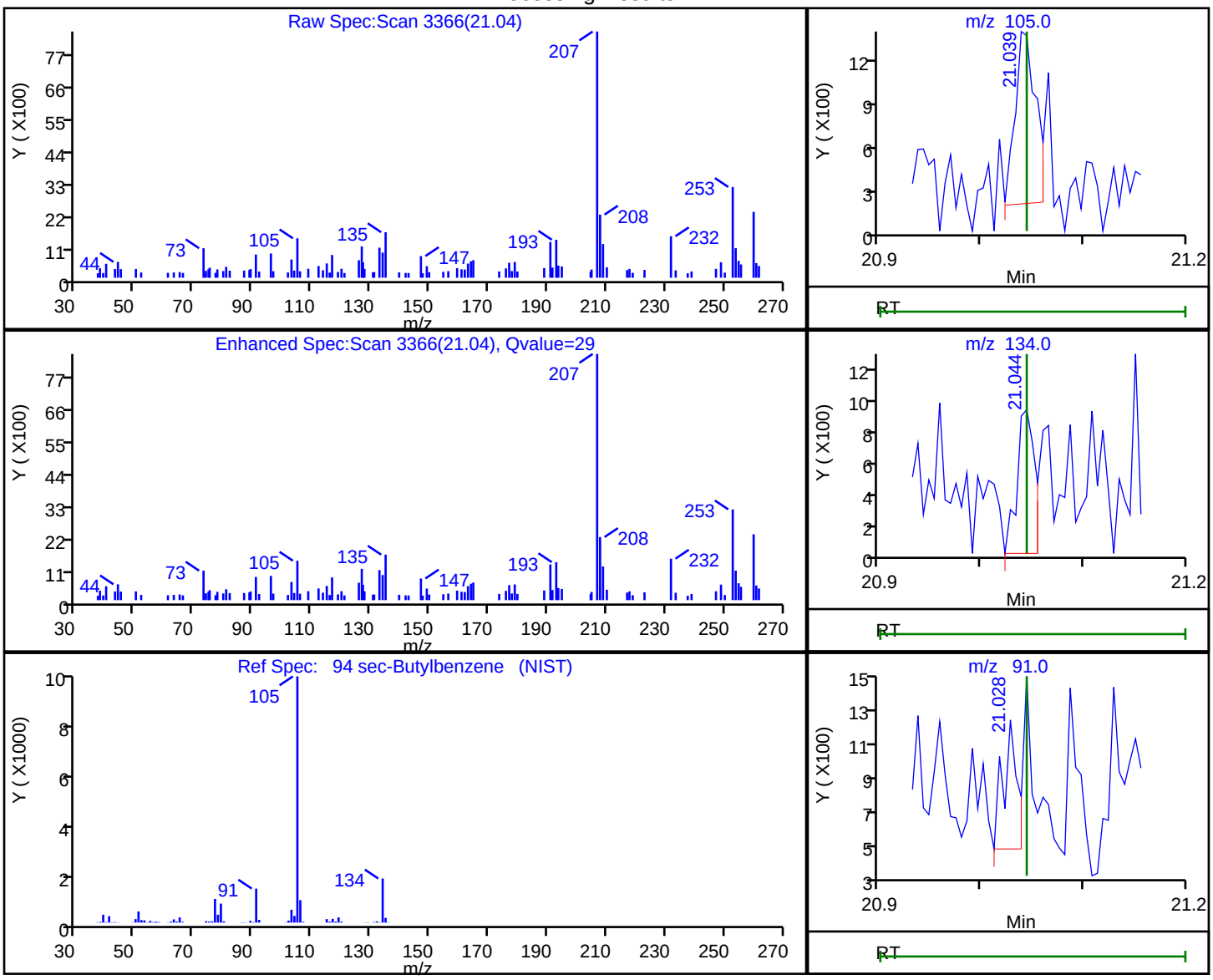
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.04 | 105.00 | 1661 | 0.004741 |
| 21.04 | 134.00 | 1097 | |
| 21.03 | 91.00 | 629 | |

Reviewer: bunmaa, 06-Dec-2018 13:07:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

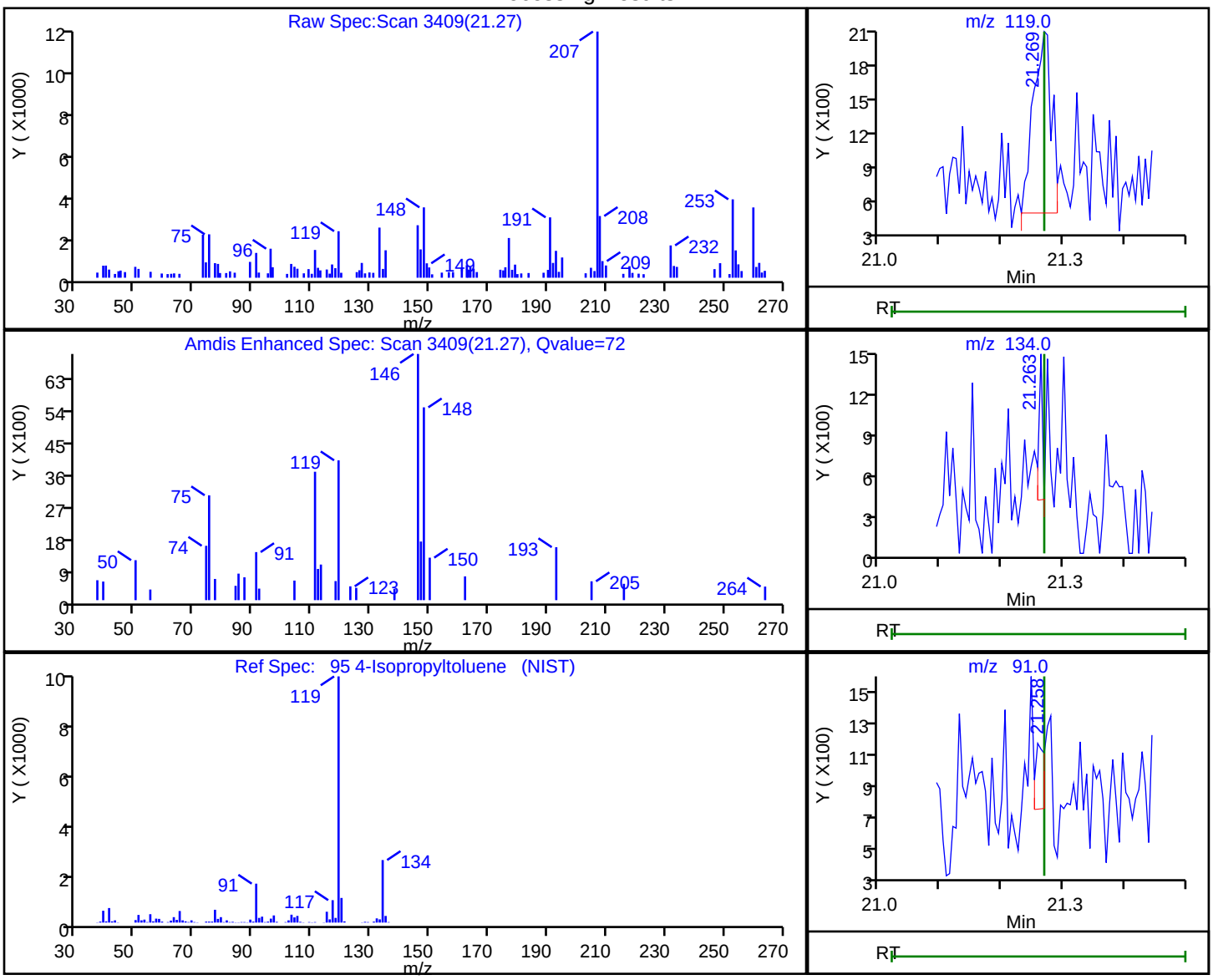
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.27 | 119.00 | 3311 | 0.011027 |
| 21.26 | 134.00 | 421 | |
| 21.26 | 91.00 | 398 | |

Reviewer: bunmaa, 06-Dec-2018 13:07:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

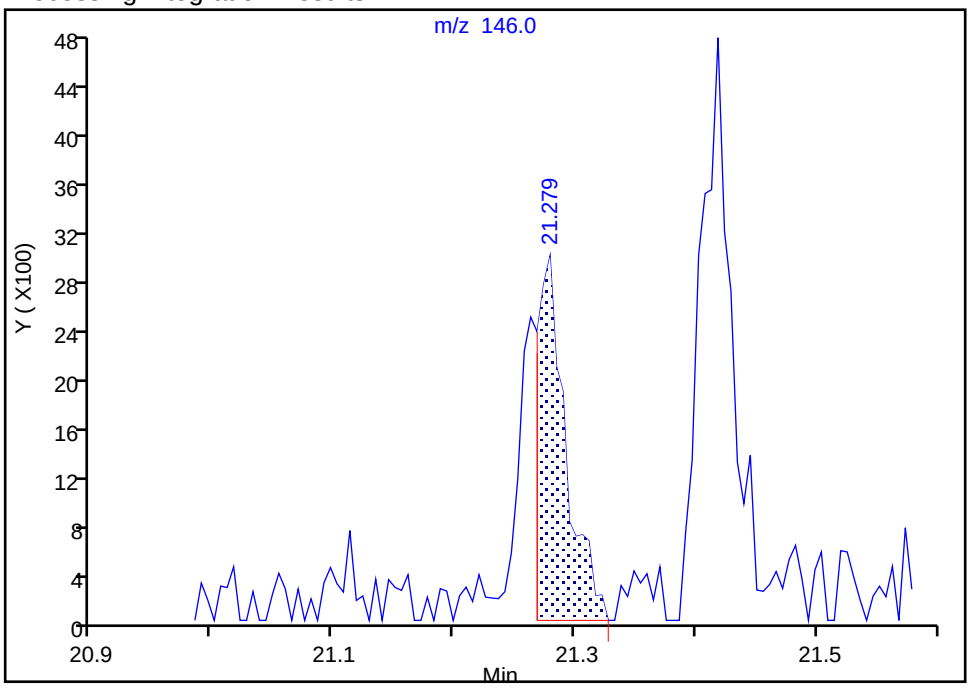
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

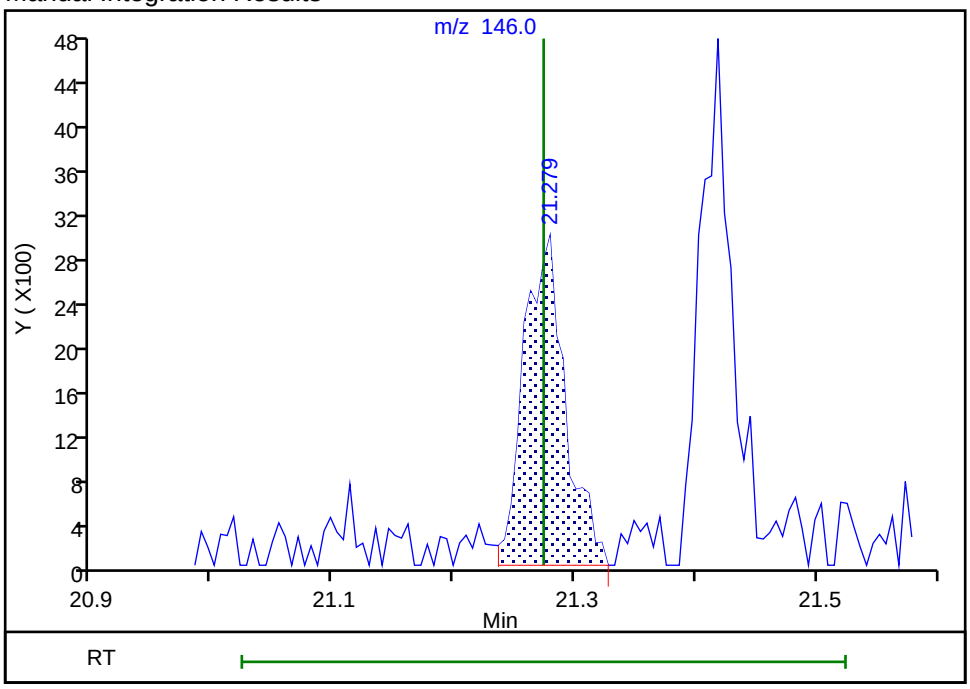
Processing Integration Results

RT: 21.28
Area: 4914
Amount: 0.024332
Amount Units: ppb v/v




Manual Integration Results

RT: 21.28
Area: 7102
Amount: 0.035166
Amount Units: ppb v/v




Reviewer: bunmaa, 06-Dec-2018 13:07:52

Audit Action: Manually Integrated Audit Reason: Assign Peak

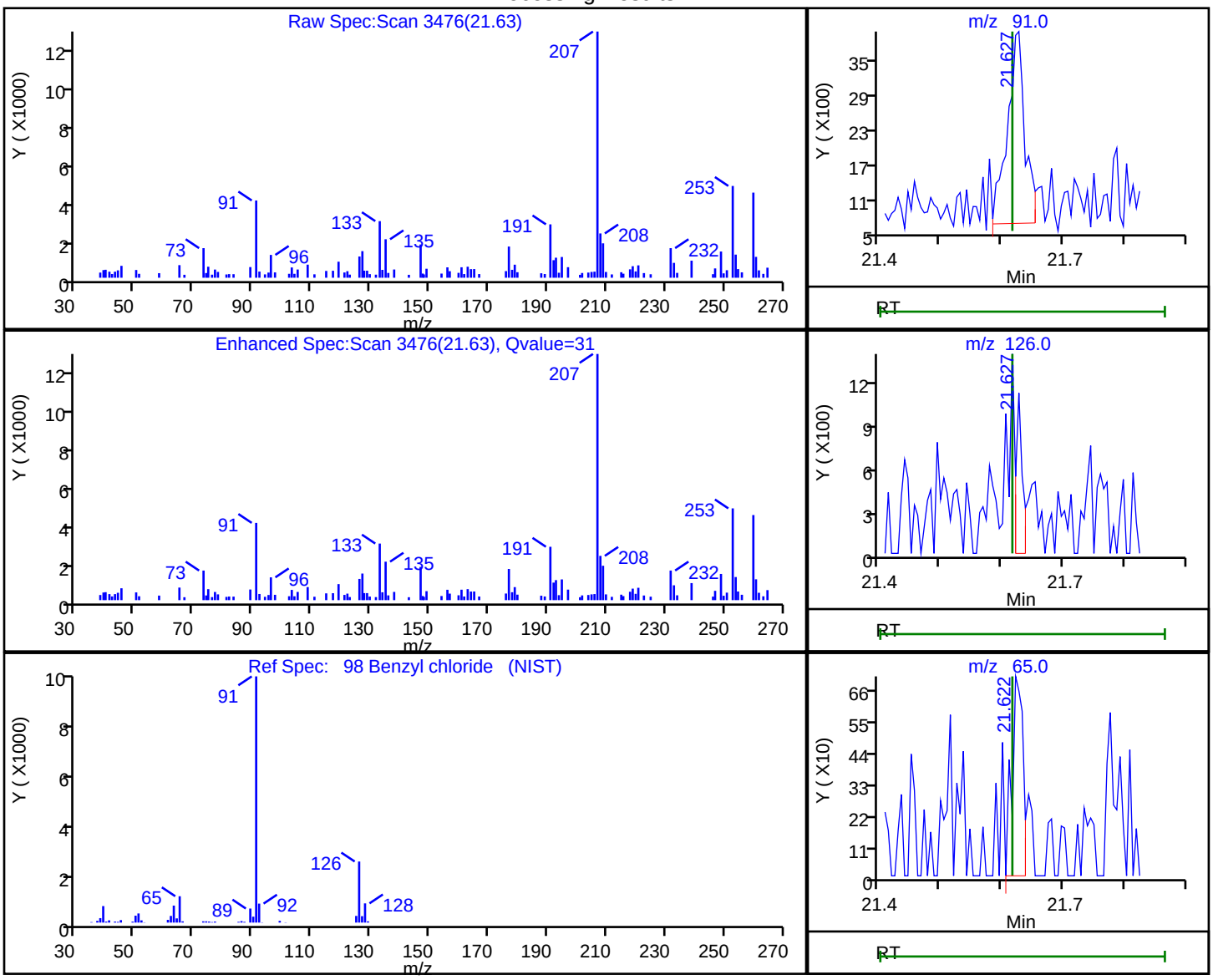
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.63 | 91.00 | 6575 | 0.027581 |
| 21.63 | 126.00 | 789 | |
| 21.62 | 65.00 | 878 | |

Reviewer: bunmaa, 06-Dec-2018 13:08:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

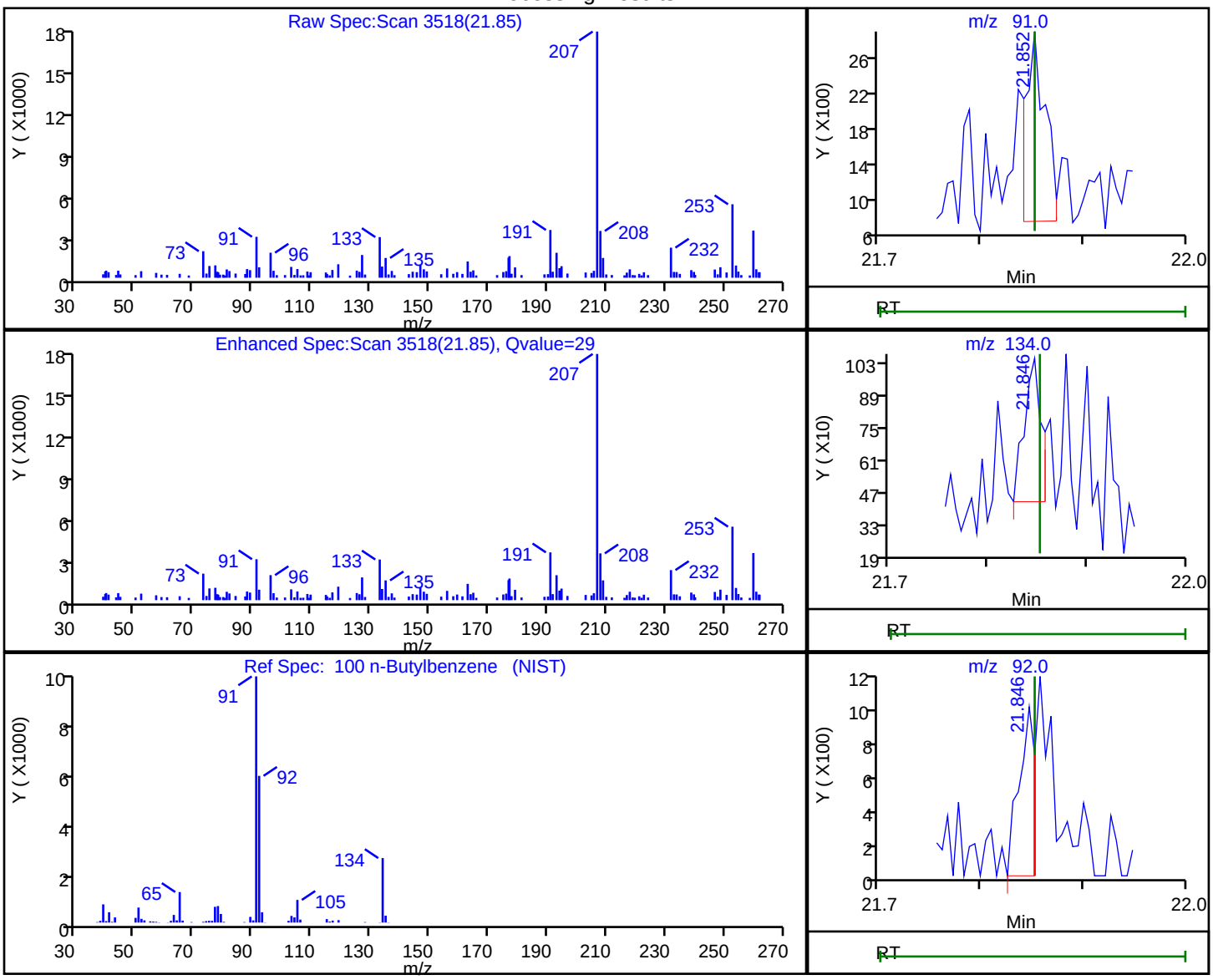
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 2808 | 0.010258 |
| 21.85 | 134.00 | 761 | |
| 21.85 | 92.00 | 1090 | |

Reviewer: bunmaa, 06-Dec-2018 13:08:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

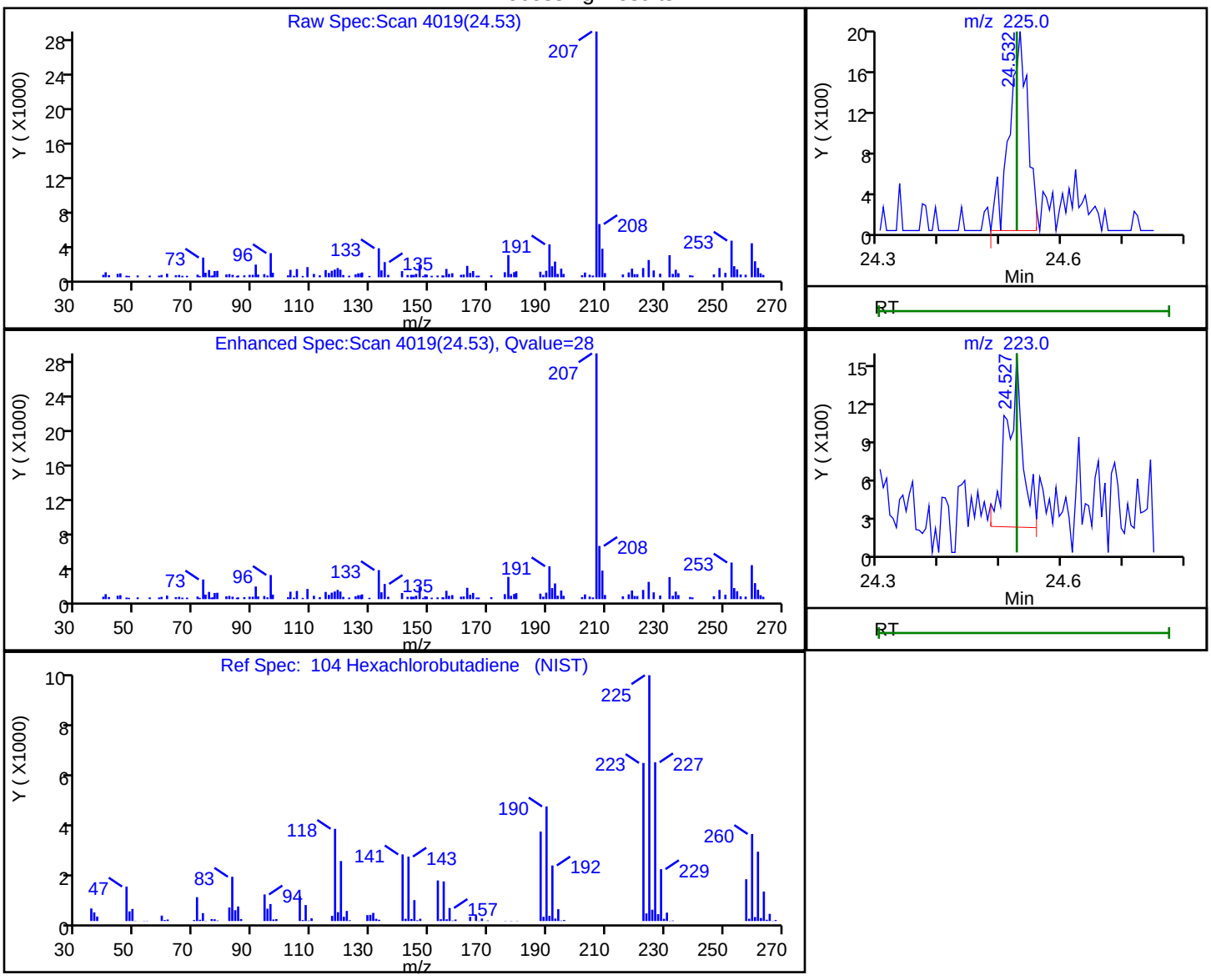
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D | | | | |
| Injection Date: | 05-Dec-2018 17:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.53 | 225.00 | 4138 | 0.029818 |
| 24.53 | 223.00 | 2442 | |

Reviewer: bunmaa, 06-Dec-2018 13:08:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137867/5

Matrix: Air | Lab File ID: 200-33558-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 17:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.50 | U | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.50 | U | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 0.50 | U | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.20 | U | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 5.0 | U | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.20 | U | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.50 | U | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.20 | U | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.035 | U | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.20 | U | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137867/5

Matrix: Air | Lab File ID: 200-33558-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 17:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.20 | U | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137867/5

Matrix: Air  Lab File ID: 200-33558-005.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 17:33

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137867/5

Matrix: Air | Lab File ID: 200-33558-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 17:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | U | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.0 | U | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 1.2 | U | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.1 | U | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 12 | U | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 0.70 | U | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.5 | U | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.69 | U | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.22 | U | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.64 | U | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137867/5

Matrix: Air | Lab File ID: 200-33558-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 17:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 0.75 | U | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137867/5

Matrix: Air  Lab File ID: 200-33558-005.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 17:33

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 06-Dec-2018 17:33:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033558-005
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 15:53:05 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: puangmaleek Date: 07-Dec-2018 15:53:05

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 3.096 | | | | ND | ND | U |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.149 | -0.005 | 87 | 8372 | 10.0 | 0.0427 | |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | ND | ND | U |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.347 | | | | ND | ND | |
| 5 Chloromethane | 50 | | 3.459 | | | | ND | ND | U |
| 6 Butane | 43 | | 3.604 | | | | ND | ND | |
| 7 Vinyl chloride | 62 | | 3.641 | | | | ND | ND | U |
| 8 Butadiene | 54 | | 3.695 | | | | ND | ND | U |
| 10 Bromomethane | 94 | | 4.208 | | | | ND | ND | U |
| 11 Chloroethane | 64 | | 4.380 | | | | ND | ND | |
| 12 2-Methylbutane | 43 | | 4.438 | | | | ND | ND | |
| 13 Vinyl bromide | 106 | | 4.685 | | | | ND | ND | U |
| 14 Trichlorofluoromethane | 101 | | 4.759 | | | | ND | ND | U |
| 16 Pentane | 43 | | 4.866 | | | | ND | ND | |
| 17 Ethanol | 45 | | 5.203 | | | | ND | ND | U |
| 18 Ethyl ether | 59 | | 5.284 | | | | ND | ND | |
| 19 Acrolein | 56 | | 5.589 | | | | ND | ND | U |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.605 | | | | ND | ND | U |
| 21 1,1-Dichloroethene | 96 | | 5.658 | | | | ND | ND | U |
| 22 Acetone | 43 | 5.883 | 5.856 | 0.027 | 100 | 57010 | 10.0 | 1.39 | |
| 23 Carbon disulfide | 76 | | 6.017 | | | | ND | ND | U |
| 24 Isopropyl alcohol | 45 | | 6.092 | | | | ND | ND | U |
| 25 3-Chloro-1-propene | 41 | | 6.306 | | | | ND | ND | U |
| 26 Acetonitrile | 41 | | 6.418 | | | | ND | ND | U |
| 27 Methylene Chloride | 49 | 6.562 | 6.562 | 0.005 | 54 | 2572 | 10.0 | 0.0593 | 7M |
| 28 2-Methyl-2-propanol | 59 | | 6.766 | | | | ND | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.937 | | | | ND | ND | U |
| 31 trans-1,2-Dichloroethene | 61 | | 6.947 | | | | ND | ND | U |
| 32 Acrylonitrile | 53 | | 7.071 | | | | ND | ND | U |
| 33 Hexane | 57 | | 7.290 | | | | ND | ND | U |
| 34 1,1-Dichloroethane | 63 | | 7.723 | | | | ND | ND | U |
| 35 Vinyl acetate | 43 | | 7.787 | | | | ND | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 37 cis-1,2-Dichloroethene | 96 | | 8.729 | | | | ND | ND | U |
| 38 2-Butanone (MEK) | 72 | 8.804 | 8.788 | 0.016 | 71 | 1662 | 10.0 | 0.1132 | |
| 39 Ethyl acetate | 88 | | 8.820 | | | | ND | ND | |
| * 40 Chlorobromomethane | 128 | 9.146 | 9.157 | -0.011 | 73 | 525512 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.205 | | | | ND | ND | U |
| 42 Chloroform | 83 | | 9.269 | | | | ND | ND | |
| 43 Cyclohexane | 84 | | 9.531 | | | | ND | ND | U |
| 44 1,1,1-Trichloroethane | 97 | | 9.542 | | | | ND | ND | U |
| S 30 1,2-Dichloroethene, Total | 61 | | 9.665 | | | | 20.0 | ND | |
| 45 Carbon tetrachloride | 117 | | 9.783 | | | | ND | ND | U |
| 46 Isooctane | 57 | | 10.200 | | | | ND | ND | |
| 47 Benzene | 78 | | 10.216 | | | | ND | ND | U |
| 48 1,2-Dichloroethane | 62 | | 10.382 | | | | ND | ND | |
| 49 n-Heptane | 43 | | 10.569 | | | | ND | ND | U |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2113688 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | | 11.463 | | | | ND | ND | U |
| 53 Trichloroethene | 95 | 11.473 | 11.473 | -0.011 | 24 | 1252 | 10.0 | 0.0170 | M |
| 54 1,2-Dichloropropane | 63 | | 12.019 | | | | ND | ND | |
| 55 Methyl methacrylate | 69 | | 12.201 | | | | ND | ND | |
| A 51 GRO | 1 | 12.257 | (4.428-20.086) | | 0 | 9849369 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.260 | 12.260 | -0.005 | 58 | 1453 | 10.0 | 0.0214 | M |
| 56 1,4-Dioxane | 88 | | 12.281 | | | | ND | ND | U |
| 58 Dichlorobromomethane | 83 | | 12.554 | | | | ND | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.474 | | | | 10.0 | ND | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.790 | | | | ND | ND | U |
| 65 Toluene | 92 | | 14.063 | | | | ND | ND | U |
| 64 n-Octane | 43 | | 14.148 | | | | ND | ND | U |
| A 59 TVOC as Toluene | 92 | 14.153 | (3.080-25.227) | | 0 | 10012618 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.656 | | | | ND | ND | U |
| 67 1,1,2-Trichloroethane | 83 | | 15.026 | | | | ND | ND | |
| 68 Tetrachloroethene | 166 | | 15.138 | | | | ND | ND | U |
| 69 2-Hexanone | 43 | | 15.507 | | | | ND | ND | U |
| 71 Chlorodibromomethane | 129 | | 15.780 | | | | ND | ND | U |
| 72 Ethylene Dibromide | 107 | 16.047 | 16.042 | 0.005 | 17 | 966 | 10.0 | 0.009749 | |
| * 74 Chlorobenzene-d5 | 117 | 16.951 | 16.957 | -0.006 | 84 | 2238866 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.016 | | | | ND | ND | U |
| 76 Ethylbenzene | 91 | | 17.181 | | | | ND | ND | U |
| 77 n-Nonane | 57 | | 17.353 | | | | ND | ND | U |
| 78 m-Xylene & p-Xylene | 106 | | 17.438 | | | | ND | ND | U |
| 79 o-Xylene | 106 | | 18.283 | | | | ND | ND | U |
| 80 Styrene | 104 | | 18.342 | | | | ND | ND | U |
| 81 Bromoform | 173 | | 18.781 | | | | ND | ND | U |
| 82 Isopropylbenzene | 105 | | 19.043 | | | | ND | ND | U |
| S 73 Xylenes, Total | 106 | | 19.600 | | | | 30.0 | ND | |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.765 | | | | ND | ND | U |
| 85 N-Propylbenzene | 91 | | 19.840 | | | | ND | ND | U |
| 86 1,2,3-Trichloropropane | 75 | | 19.856 | | | | 10.0 | ND | |
| 89 2-Chlorotoluene | 91 | | 20.049 | | | | ND | ND | U |
| 88 4-Ethyltoluene | 105 | | 20.054 | | | | ND | ND | U |
| 87 n-Decane | 57 | | 20.076 | | | | ND | ND | |
| 90 1,3,5-Trimethylbenzene | 105 | | 20.172 | | | | ND | ND | U |
| 91 Alpha Methyl Styrene | 118 | | 20.562 | | | | ND | ND | U |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 92 tert-Butylbenzene | 119 | | 20.691 | | | | ND | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | | 20.798 | | | | ND | ND | U |
| 94 sec-Butylbenzene | 105 | | 21.044 | | | | ND | ND | U |
| 95 4-Isopropyltoluene | 119 | | 21.263 | | | | ND | ND | U |
| 96 1,3-Dichlorobenzene | 146 | 21.274 | 21.269 | 0.005 | 38 | 5275 | 10.0 | 0.0331 | |
| 97 1,4-Dichlorobenzene | 146 | 21.408 | 21.413 | -0.005 | 39 | 6191 | 10.0 | 0.0406 | |
| 98 Benzyl chloride | 91 | | 21.616 | | | | ND | ND | U |
| 100 n-Butylbenzene | 91 | | 21.846 | | | | ND | ND | U |
| 99 Undecane | 57 | | 21.905 | | | | ND | ND | U |
| 101 1,2-Dichlorobenzene | 146 | 21.948 | 21.948 | 0.000 | 21 | 4439 | 10.0 | 0.0303 | |
| 102 Dodecane | 57 | | 23.435 | | | | ND | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334 | 24.334 | 0.000 | 84 | 7090 | 10.0 | 0.0643 | |
| 104 Hexachlorobutadiene | 225 | | 24.527 | | | | ND | ND | U |
| 105 Naphthalene | 128 | 24.773 | 24.773 | 0.000 | 46 | 12591 | 10.0 | 0.0589 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.222 | 25.222 | 0.000 | 15 | 5796 | 10.0 | 0.0609 | |
| 118 Chlorotrifluoroethene TIC | 1 | | 0.000 | | | | | ND | |
| 119 Difluoroethane TIC | 1 | | 0.000 | | | | | ND | |
| 120 Total Alkanes TIC | 1 | | 0.000 | | | | | ND | |
| 121 Freon 115 TIC | 1 | | 0.000 | | | | | ND | |
| 122 1,1,1-Trifluoro-2,2-dichlo | 1 | | 0.000 | | | | | ND | |

## QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15LCSW_00791 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

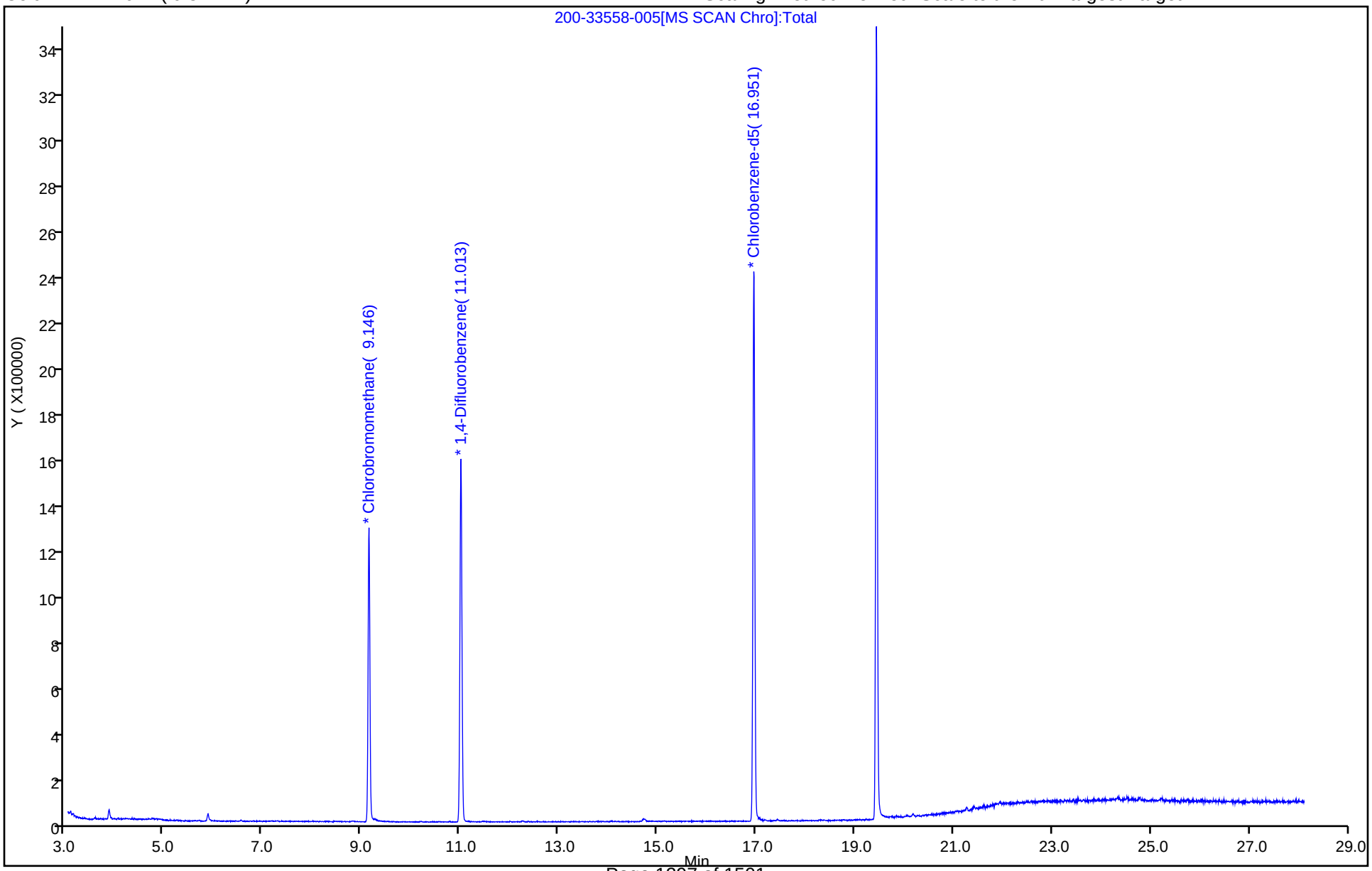
Report Date: 07-Dec-2018 15:53:06 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | mb | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



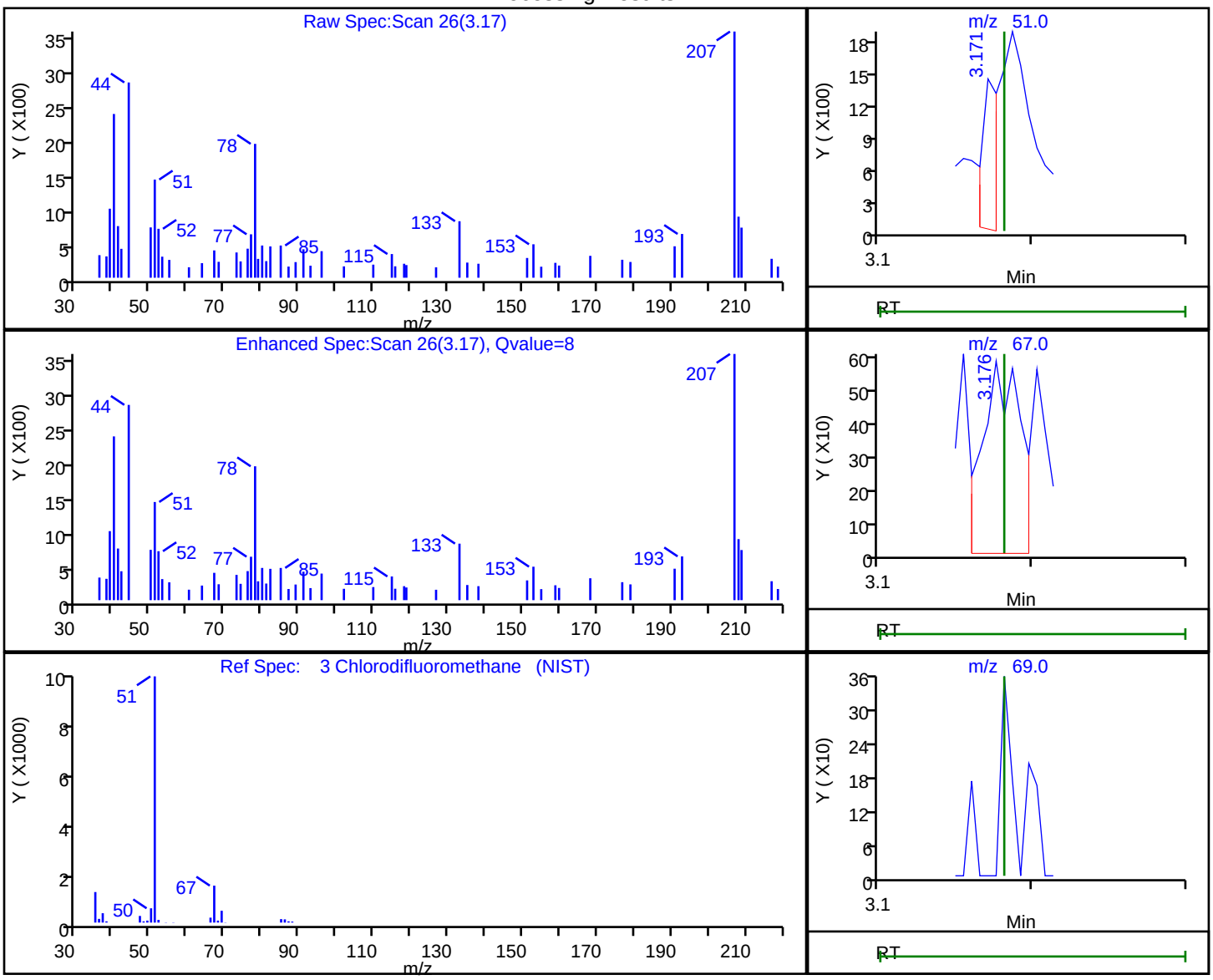
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.17 | 51.00 | 1047 | 0.012545 |
| 3.18 | 67.00 | 1037 | |
| 3.18 | 69.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

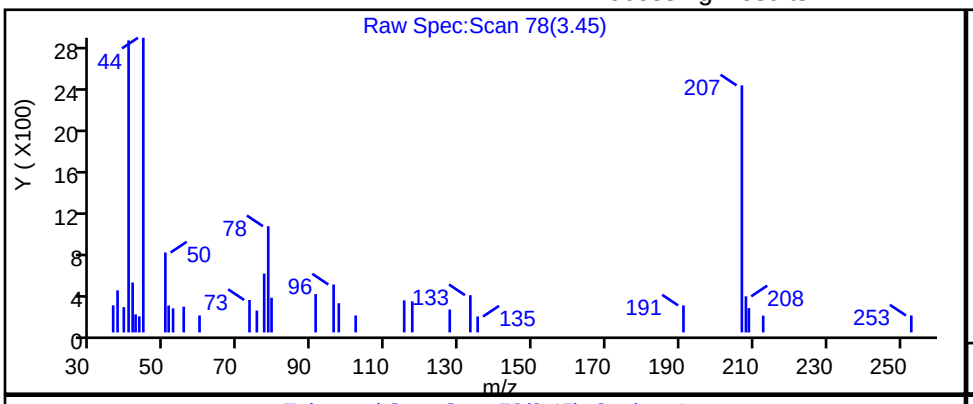
User Disabled Compound Report

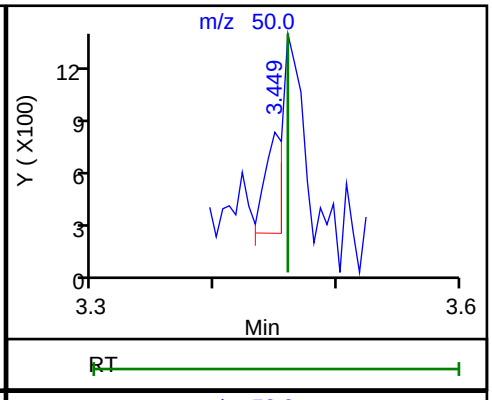
TestAmerica Burlington

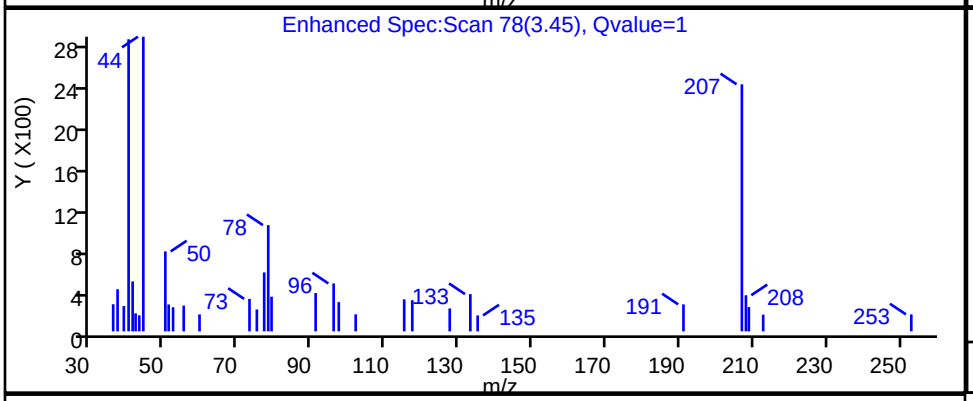
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

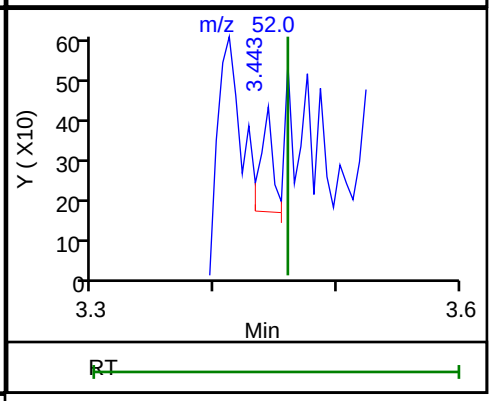
## 5 Chloromethane, CAS: 74-87-3

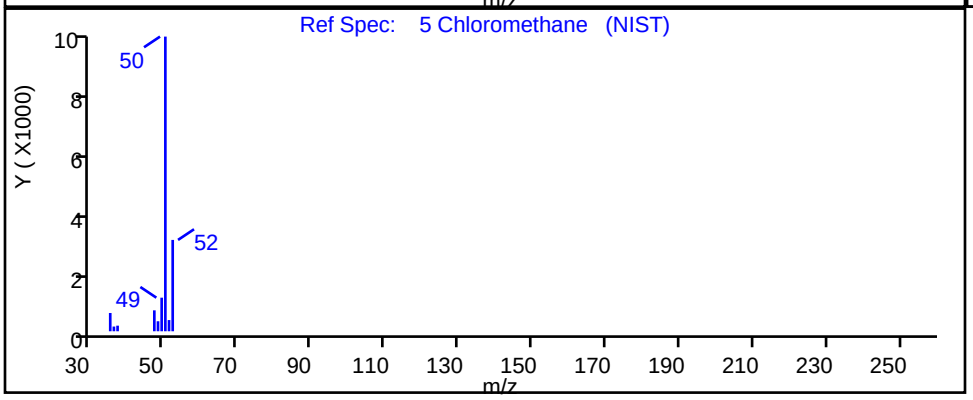
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.45 | 50.00 | 559 | 0.014653 |
| 3.44 | 52.00 | 187 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

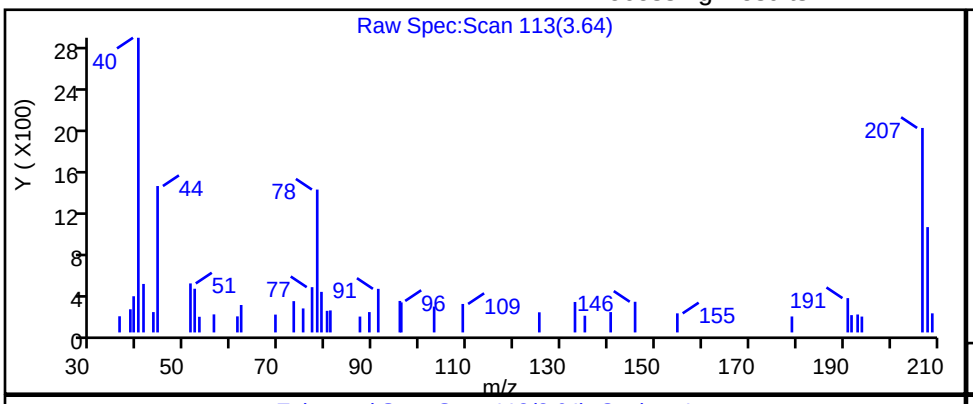
User Disabled Compound Report

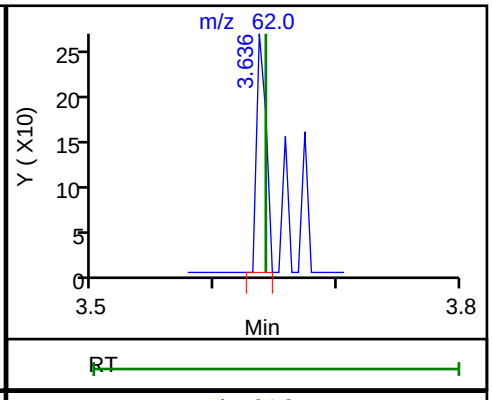
TestAmerica Burlington

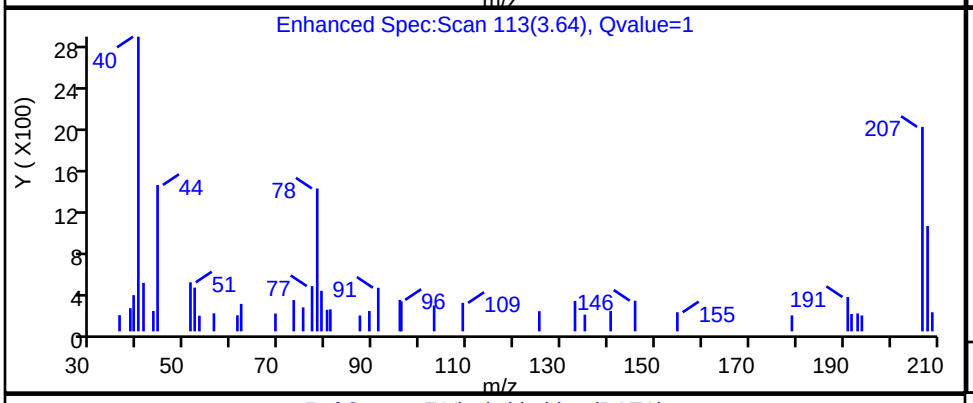
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

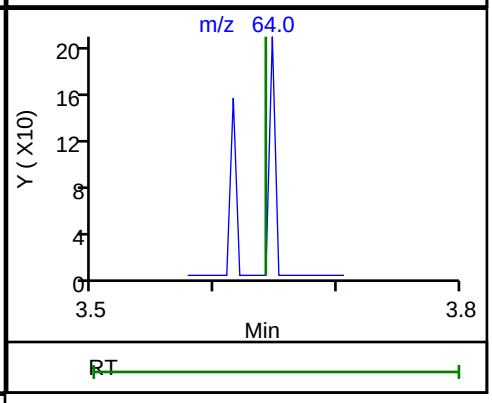
## 7 Vinyl chloride, CAS: 75-01-4

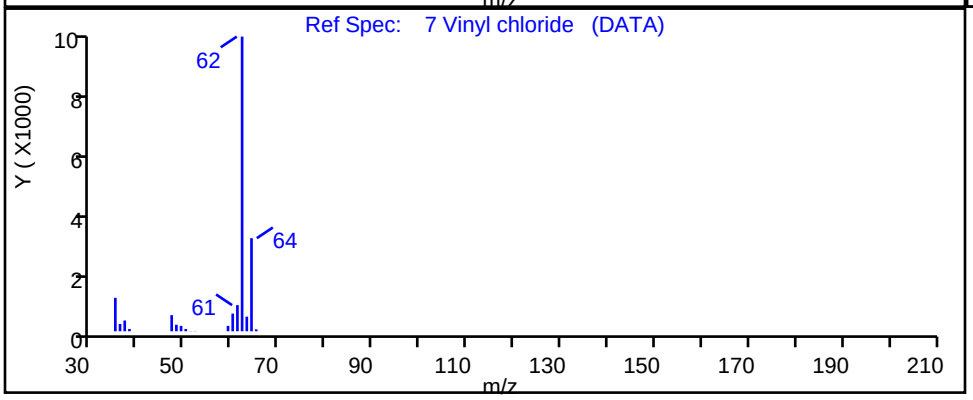
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.64 | 62.00 | 141 | 0.003071 |
| 3.64 | 64.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

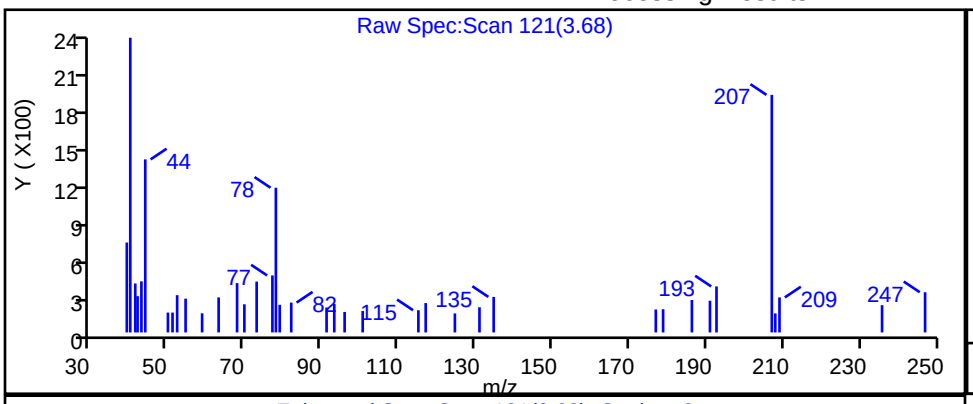
User Disabled Compound Report

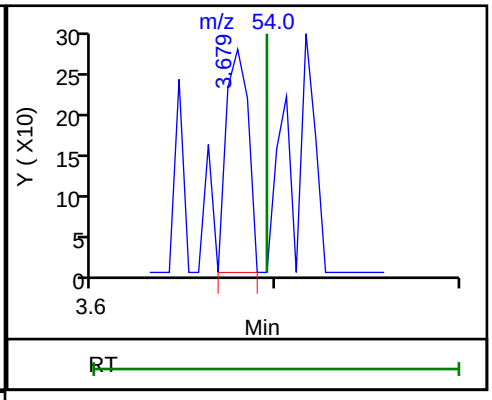
TestAmerica Burlington

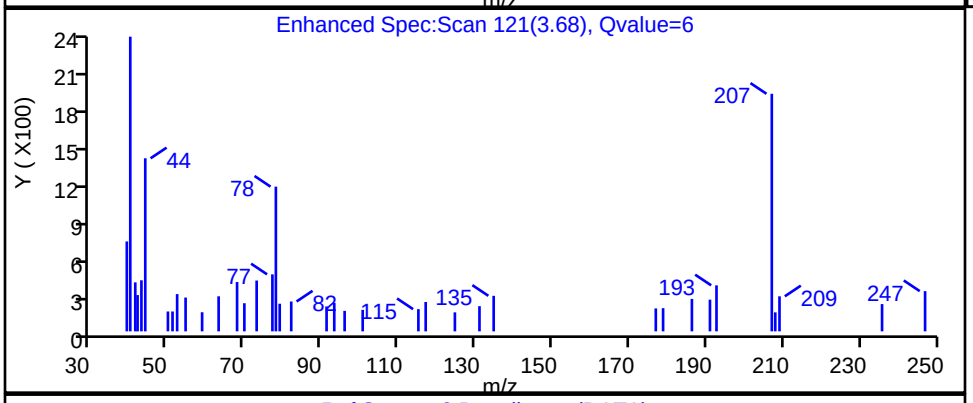
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

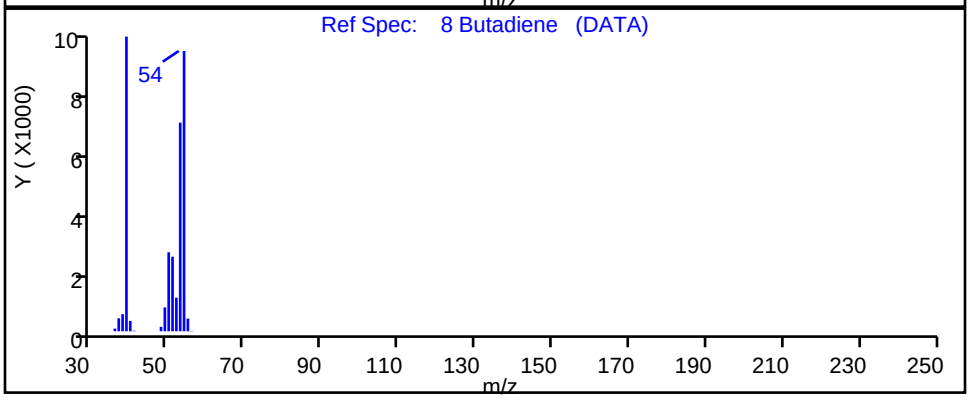
## 8 Butadiene, CAS: 106-99-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.68 | 54.00 | 230 | 0.008050 |

Reviewer: puangmaleek, 07-Dec-2018 15:50:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

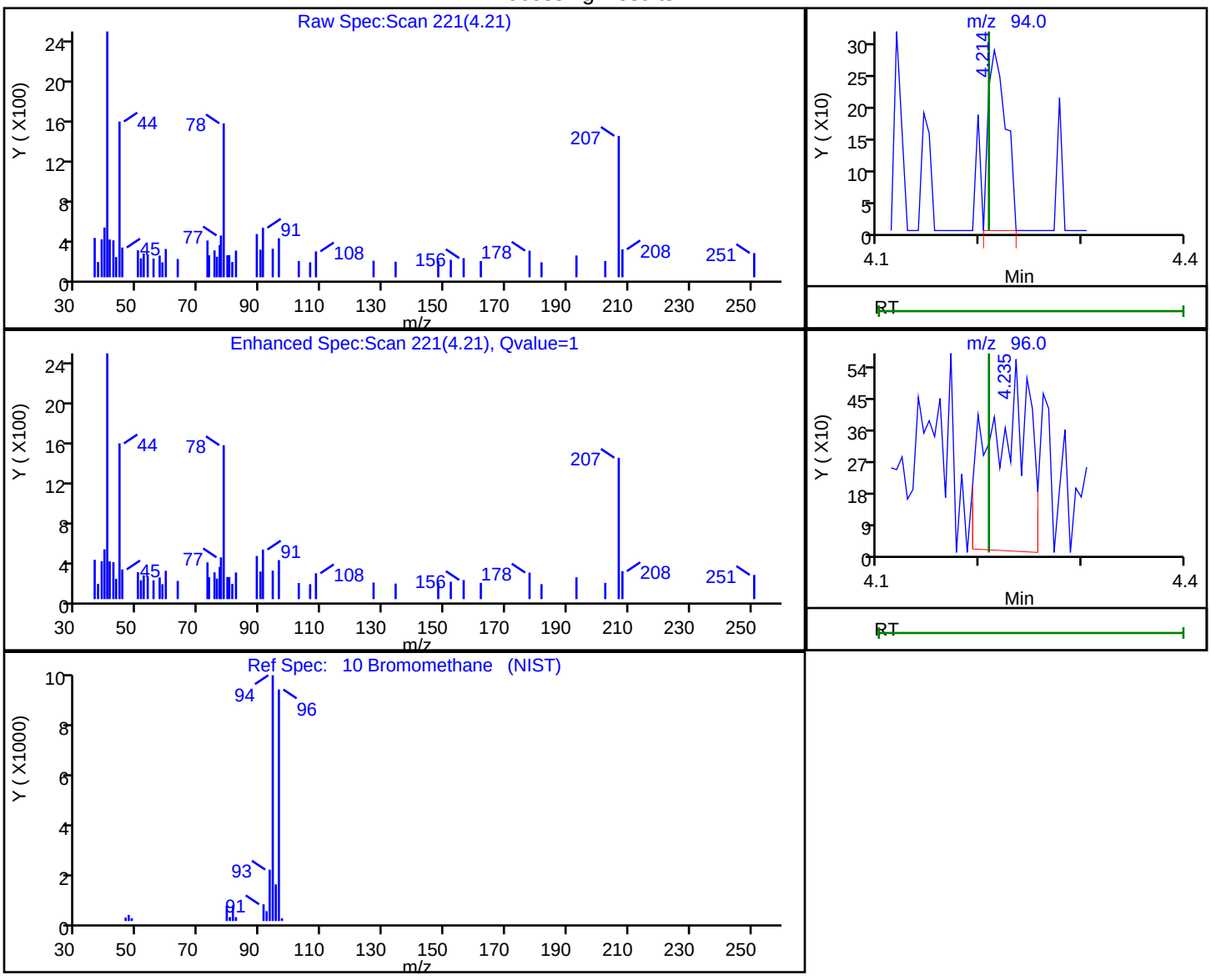
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 10 Bromomethane, CAS: 74-83-9

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.21 | 94.00 | 348 | 0.006564 |
| 4.24 | 96.00 | 1374 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

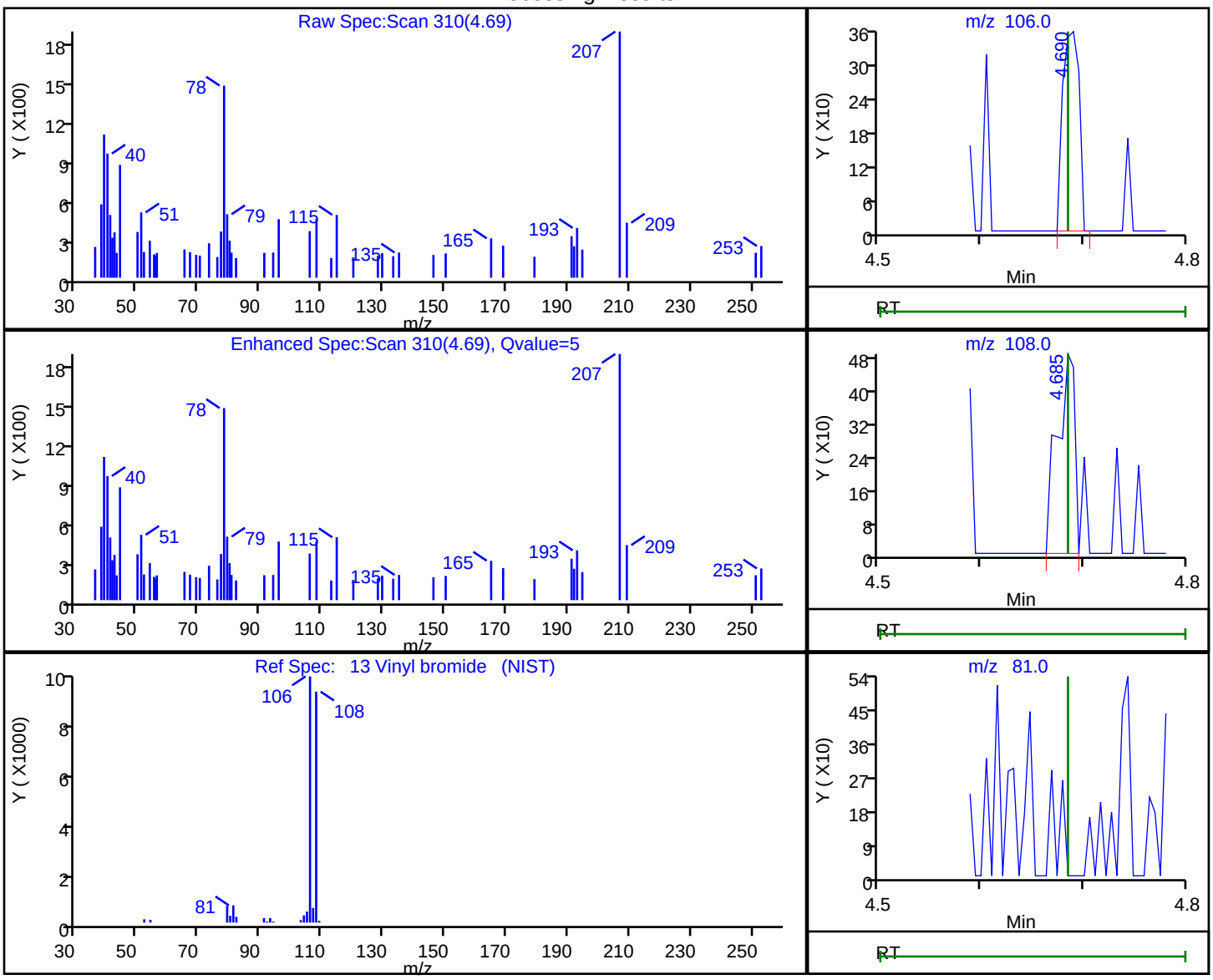
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 13 Vinyl bromide, CAS: 593-60-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.69 | 106.00 | 402 | 0.007669 |
| 4.68 | 108.00 | 570 | |
| 4.68 | 81.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

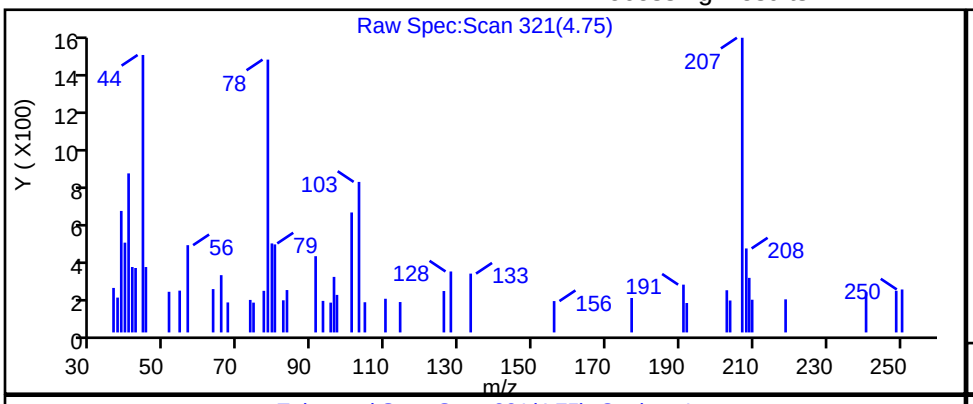
User Disabled Compound Report

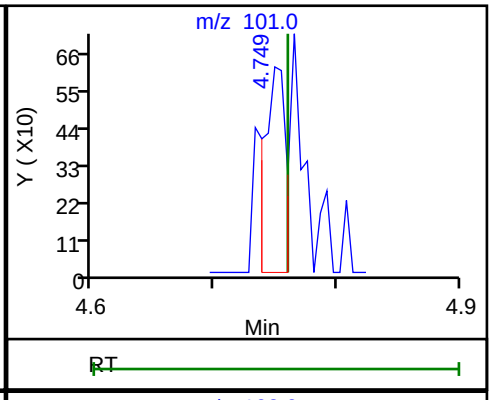
TestAmerica Burlington

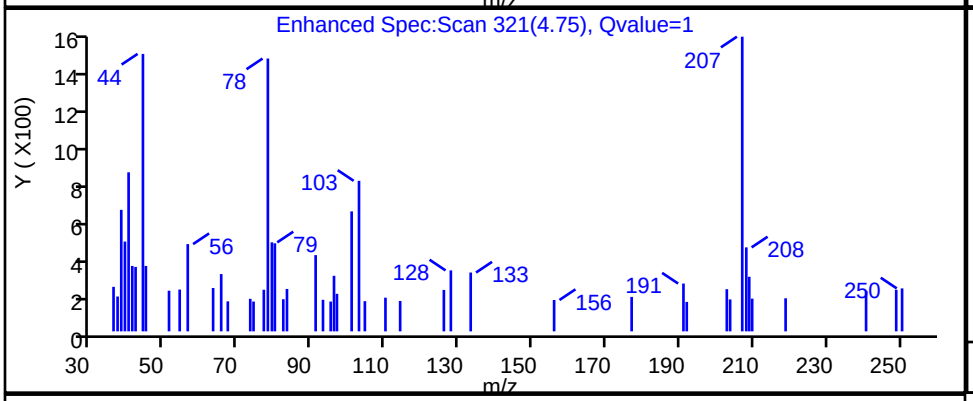
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

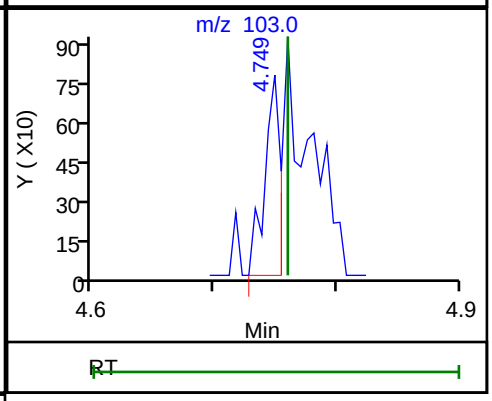
## 14 Trichlorofluoromethane, CAS: 75-69-4

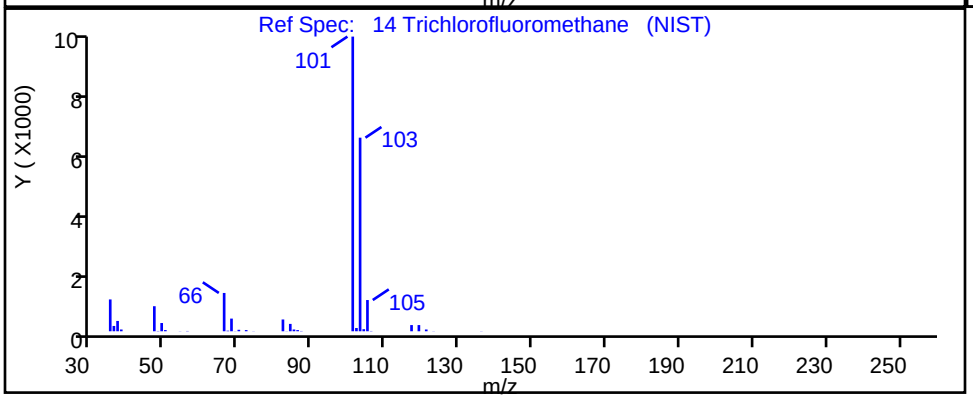
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.75 | 101.00 | 753 | 0.004860 |
| 4.75 | 103.00 | 694 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

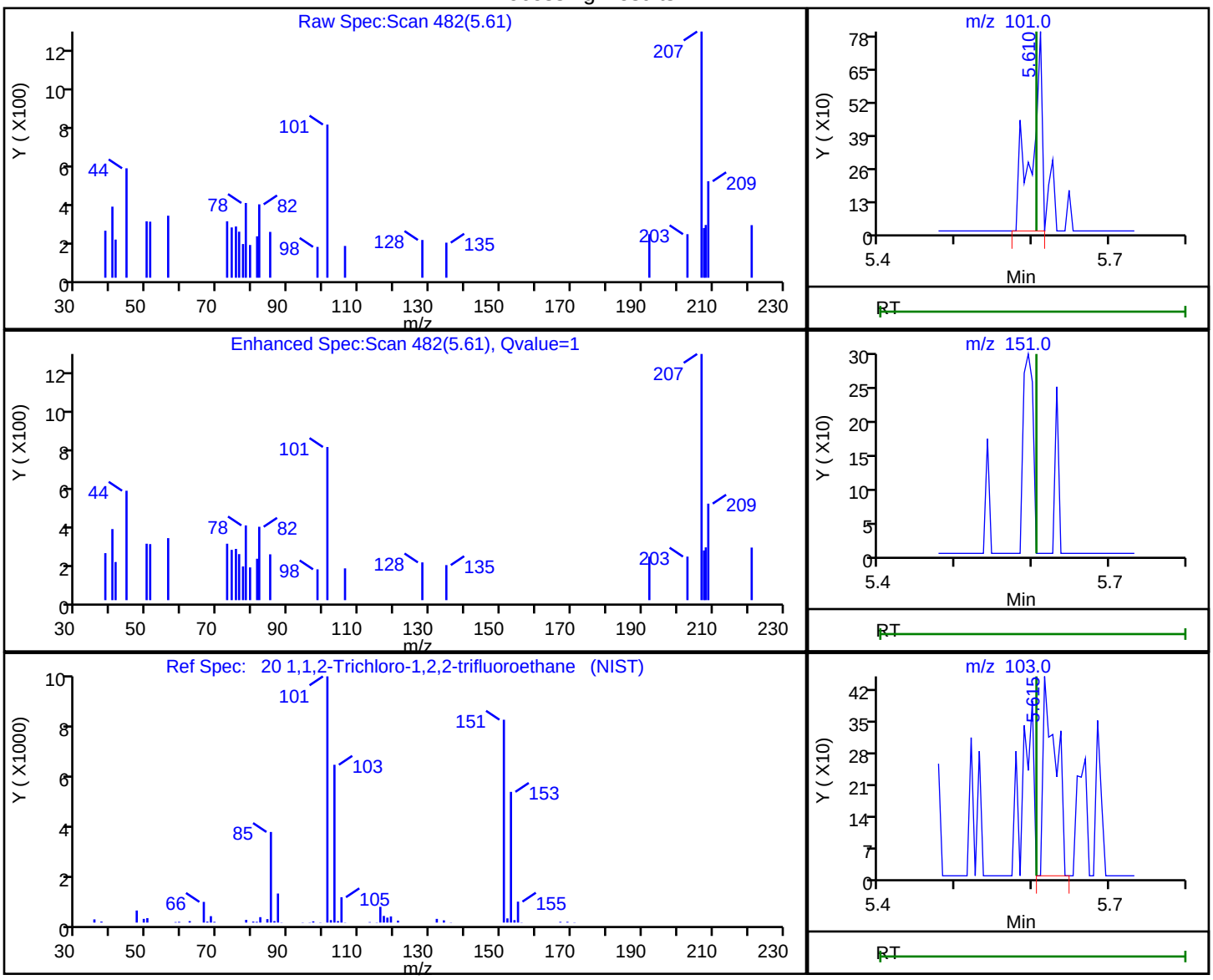
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.61 | 101.00 | 748 | 0.006854 |
| 5.60 | 151.00 | 0 | |
| 5.62 | 103.00 | 516 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

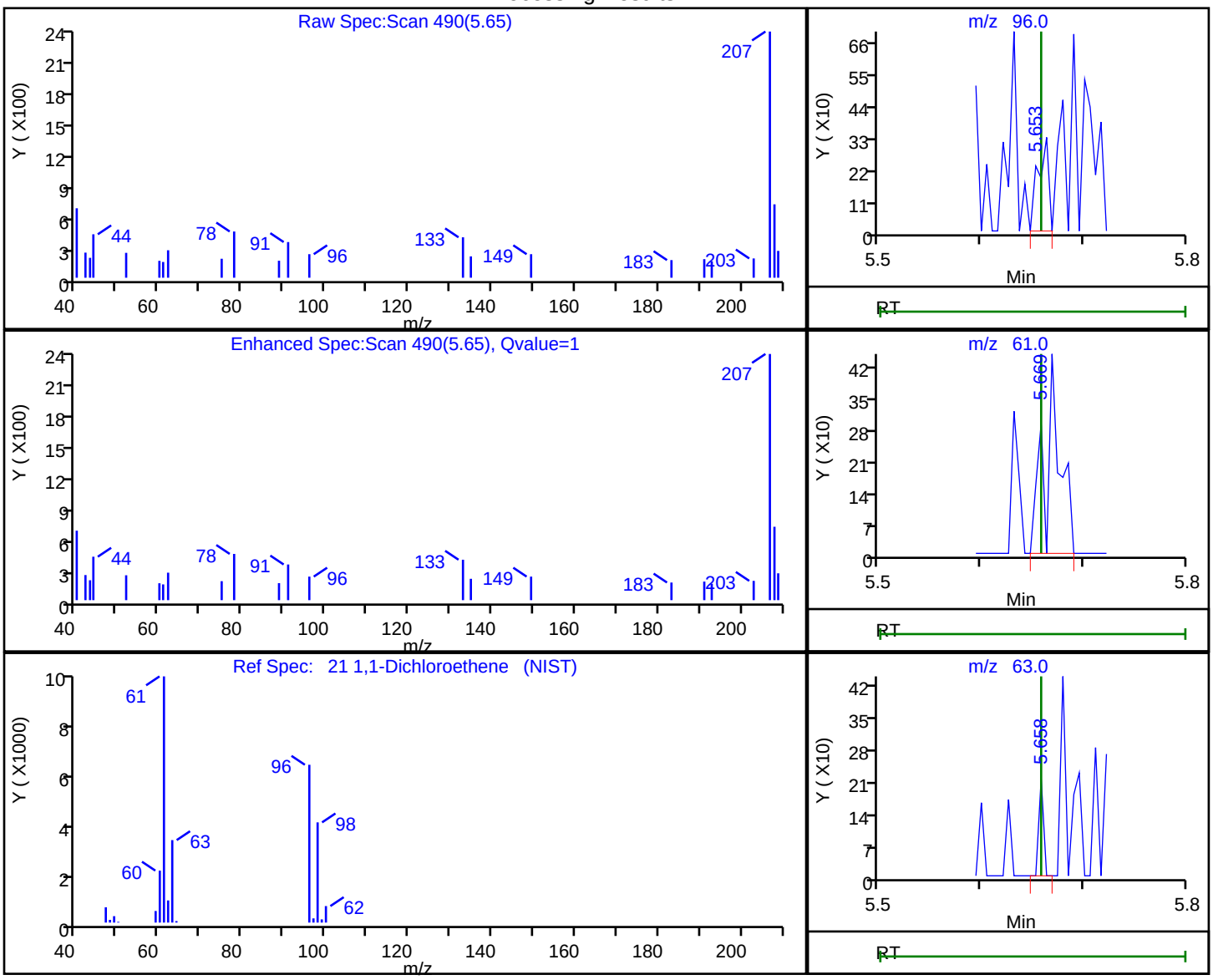
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.65 | 96.00 | 237 | 0.004933 |
| 5.67 | 61.00 | 463 | |
| 5.66 | 63.00 | 68 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

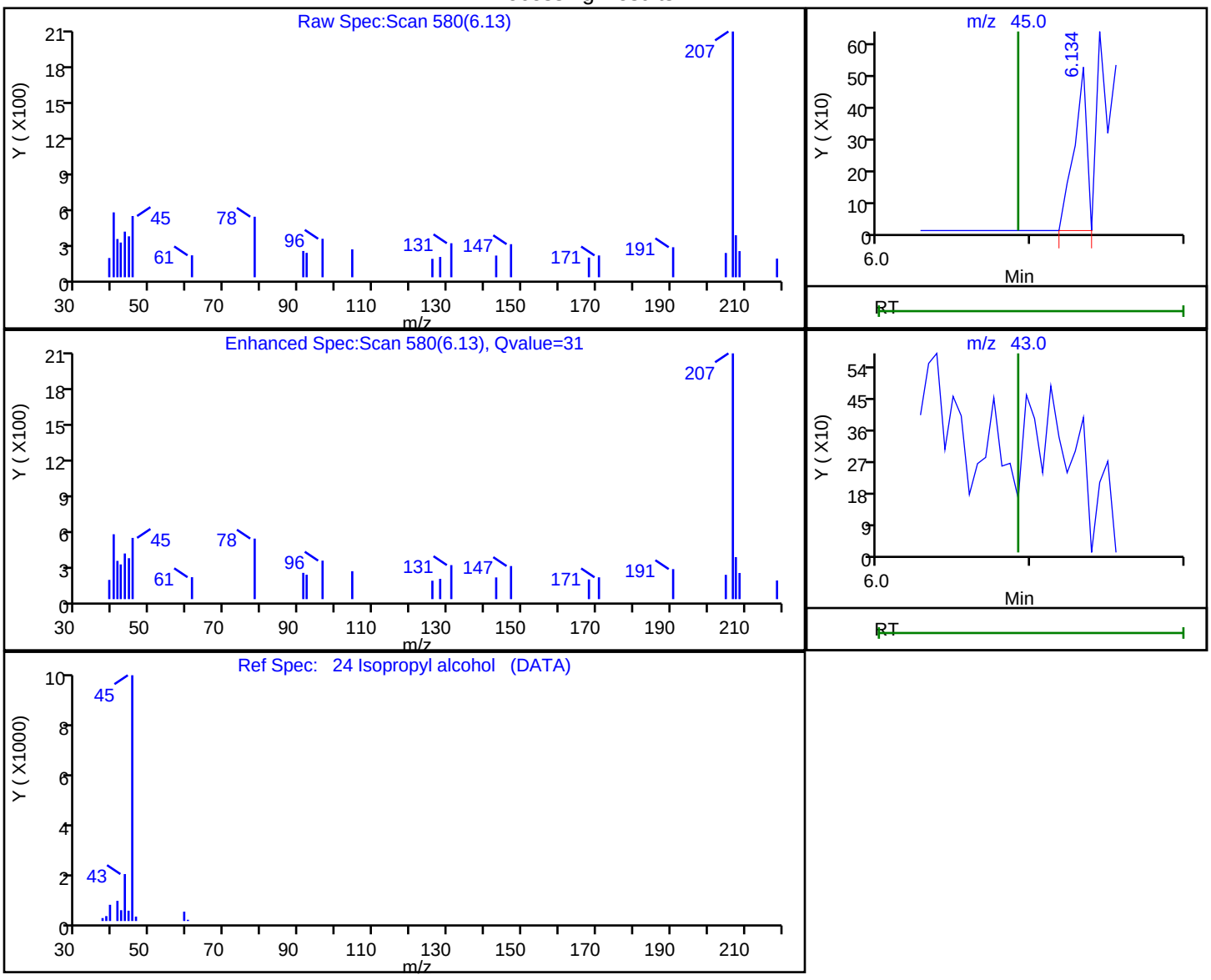
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 24 Isopropyl alcohol, CAS: 67-63-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.13 | 45.00 | 303 | 0.006702 |
| 6.09 | 43.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

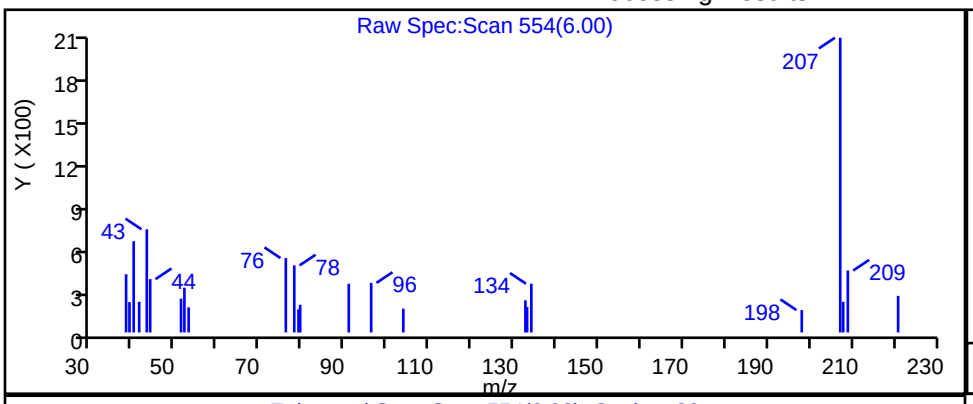
User Disabled Compound Report

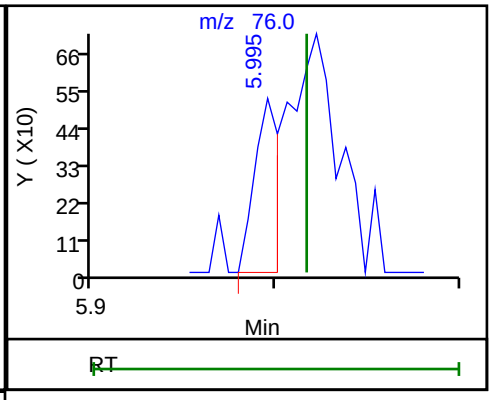
TestAmerica Burlington

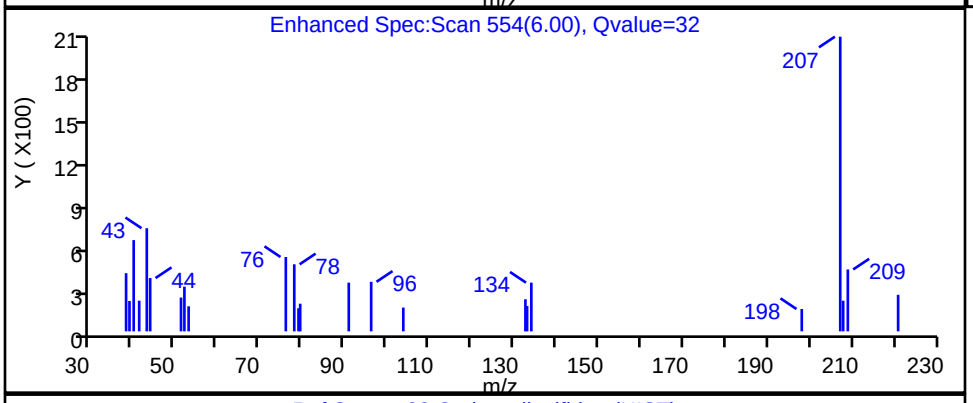
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

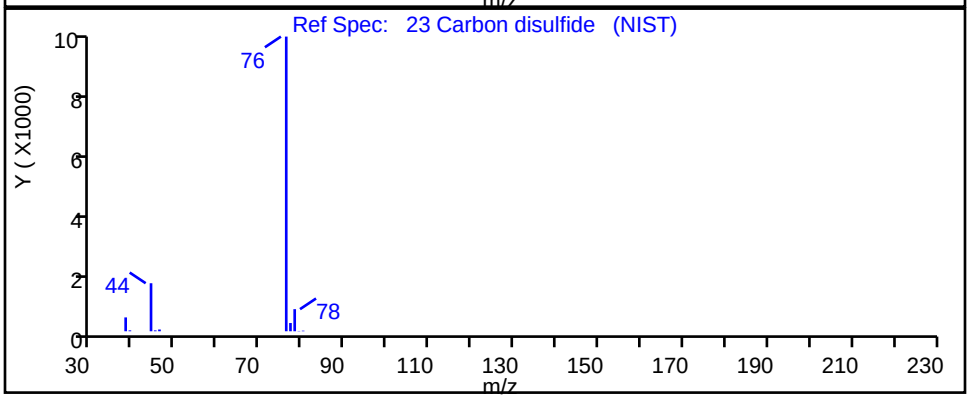
## 23 Carbon disulfide, CAS: 75-15-0

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.00 | 76.00 | 470 | 0.003803 |

Reviewer: puangmaleek, 07-Dec-2018 15:50:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

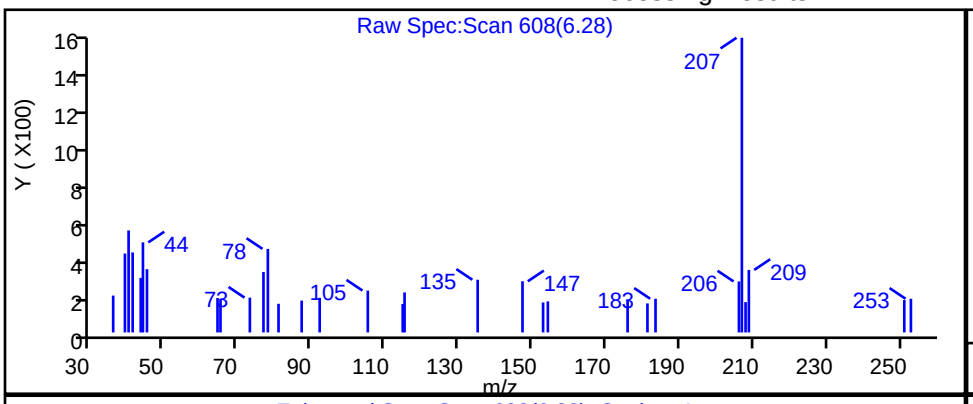
User Disabled Compound Report

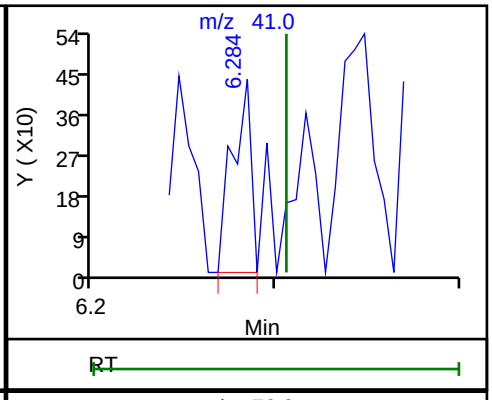
TestAmerica Burlington

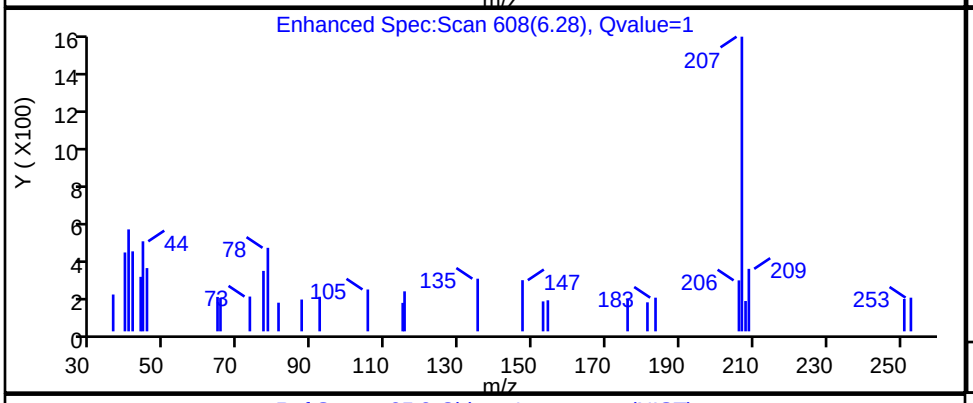
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

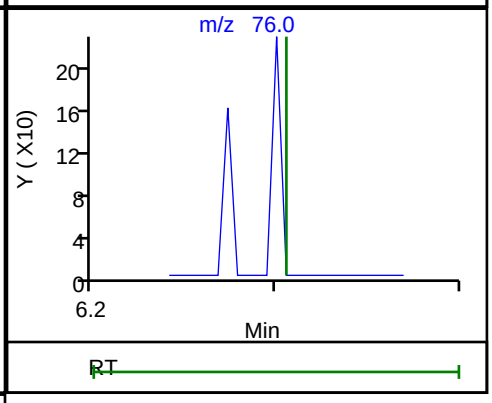
## 25 3-Chloro-1-propene, CAS: 107-05-1

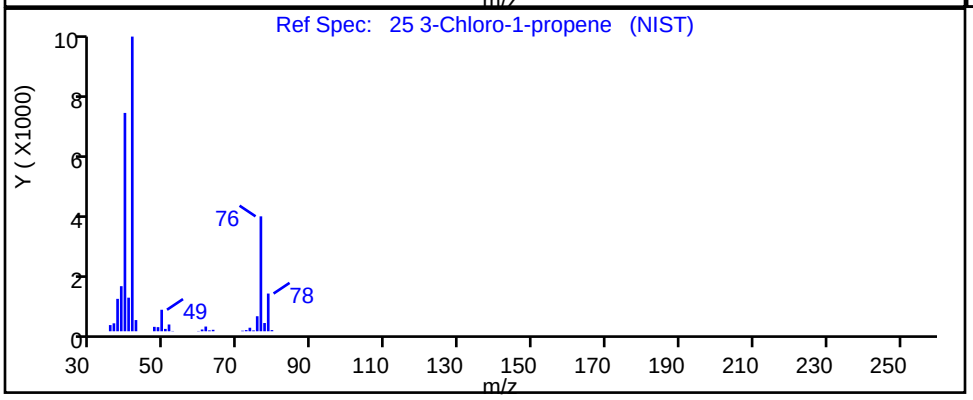
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.28 | 41.00 | 306 | 0.008562 |
| 6.30 | 76.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

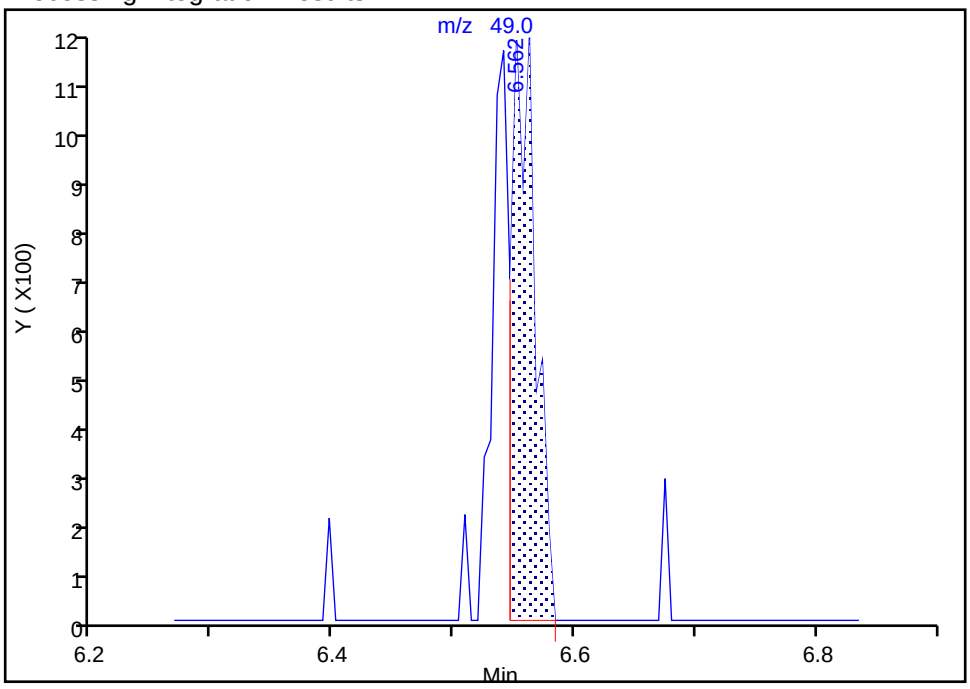
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

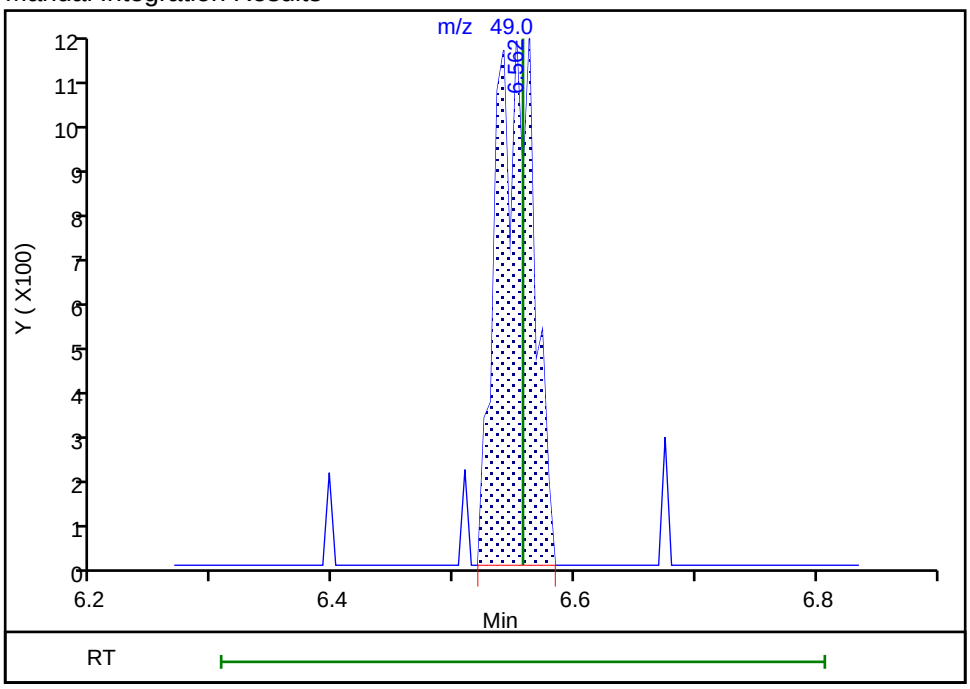
Processing Integration Results

RT: 6.56
Area: 1634
Amount: 0.037689
Amount Units: ppb v/v




Manual Integration Results

RT: 6.56
Area: 2572
Amount: 0.059324
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 15:50:52
Audit Action: Manually Integrated Audit Reason: Assign Peak

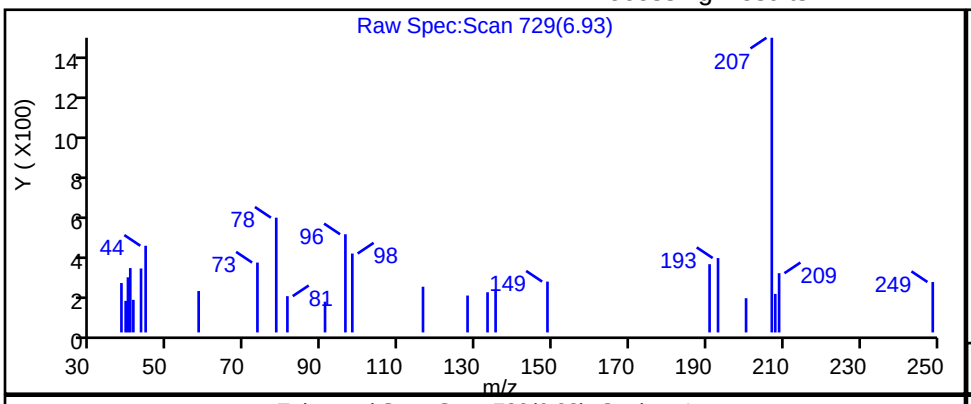
User Disabled Compound Report

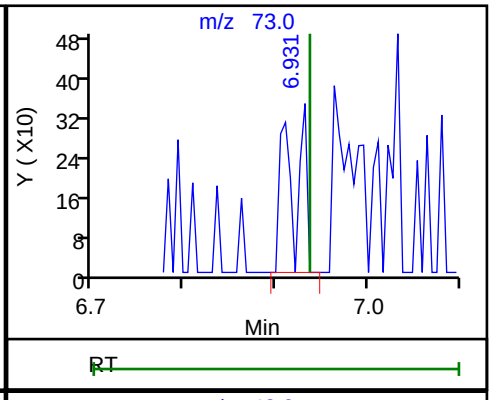
TestAmerica Burlington

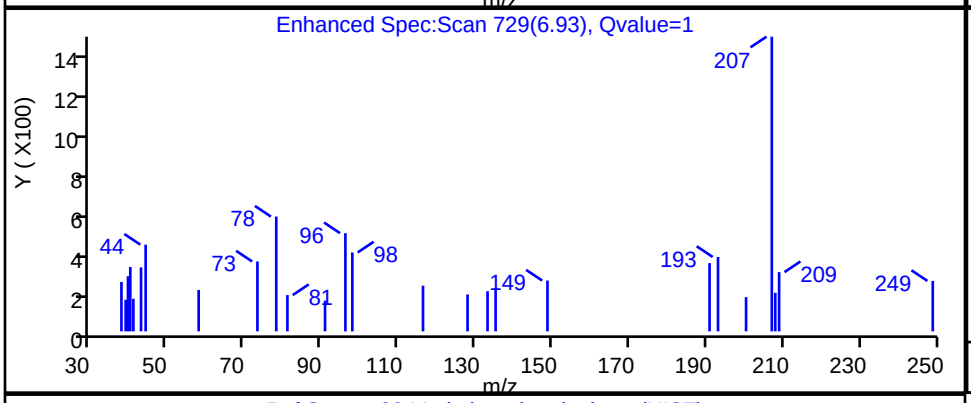
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

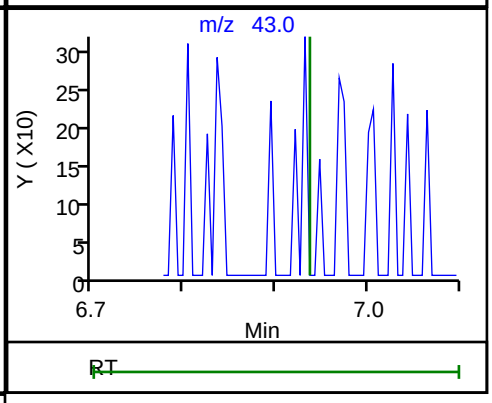
## 29 Methyl tert-butyl ether, CAS: 1634-04-4

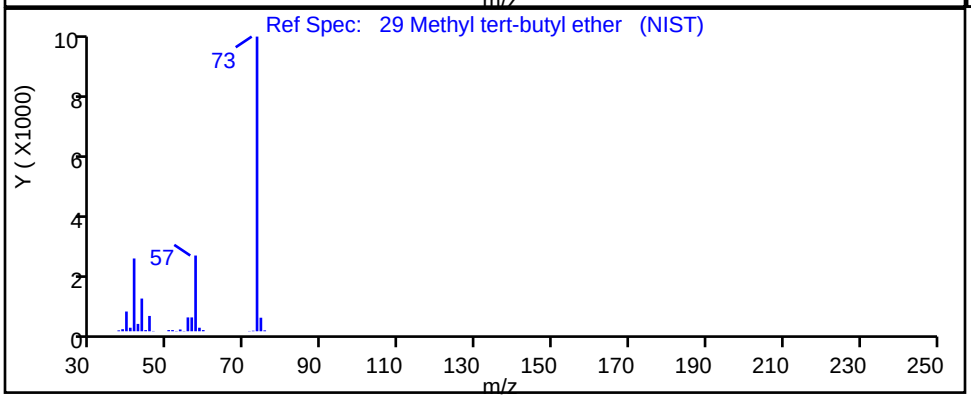
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.93 | 73.00 | 430 | 0.004604 |
| 6.93 | 43.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:50:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

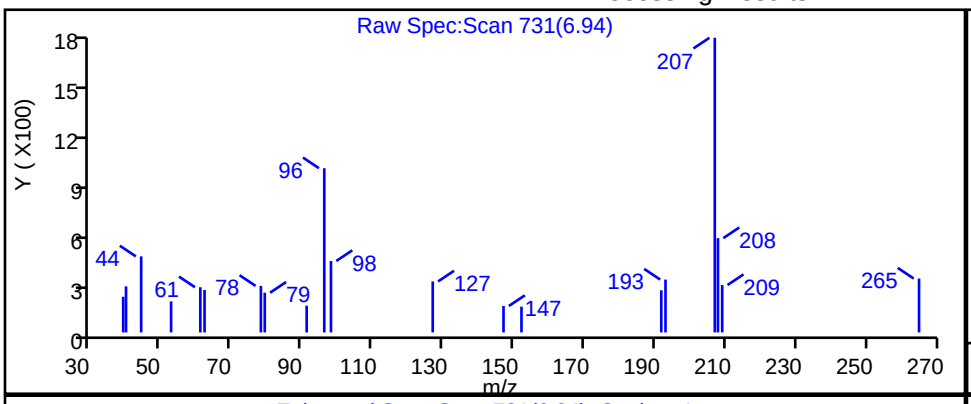
User Disabled Compound Report

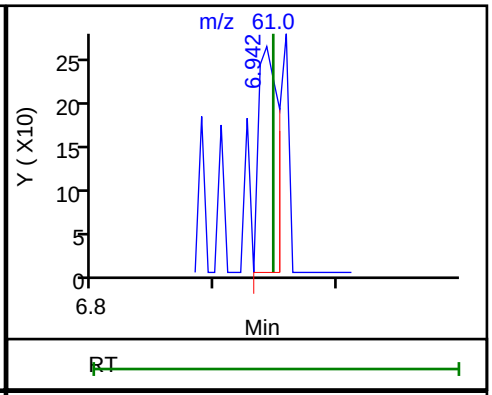
TestAmerica Burlington

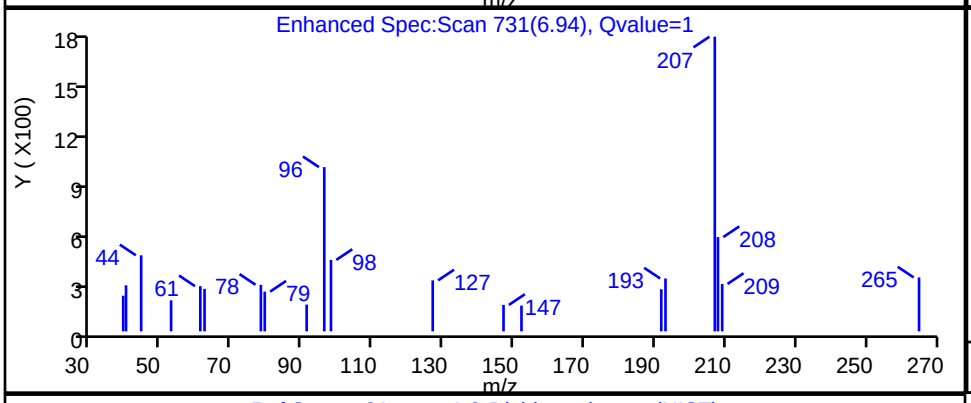
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

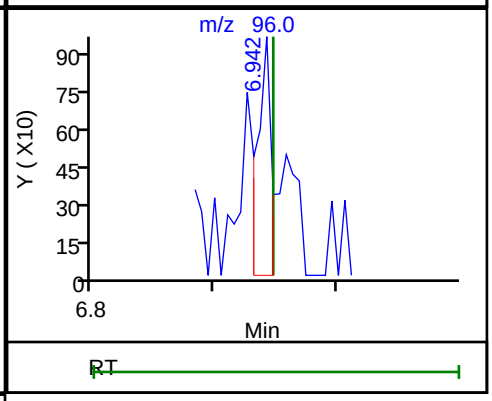
## 31 trans-1,2-Dichloroethene, CAS: 156-60-5

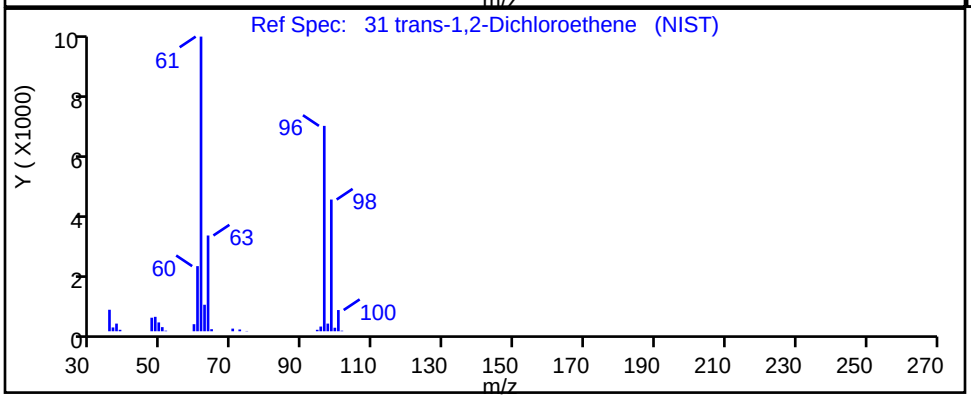
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.94 | 61.00 | 298 | 0.005120 |
| 6.94 | 96.00 | 757 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

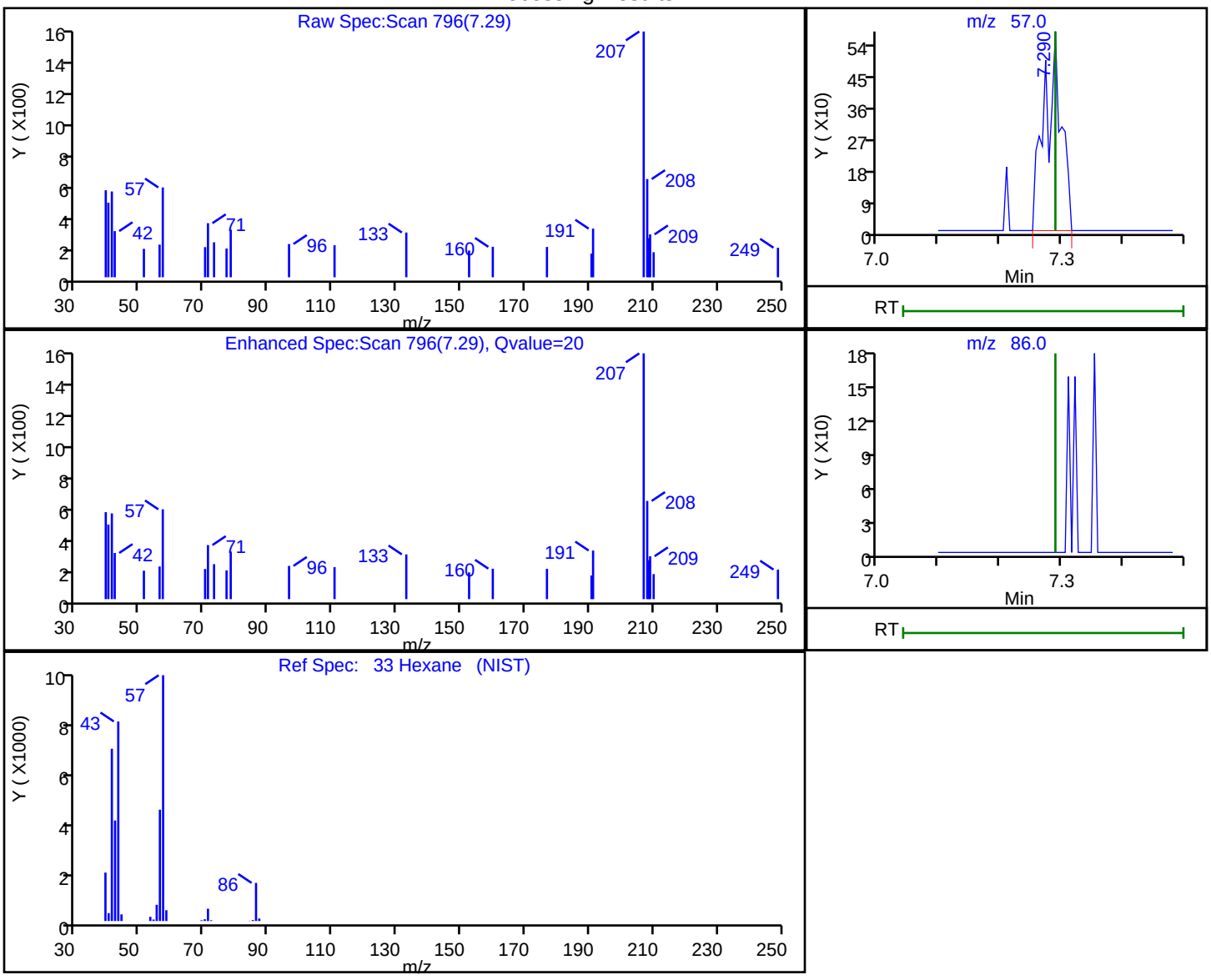
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 33 Hexane, CAS: 110-54-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.29 | 57.00 | 1098 | 0.023666 |
| 7.29 | 86.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

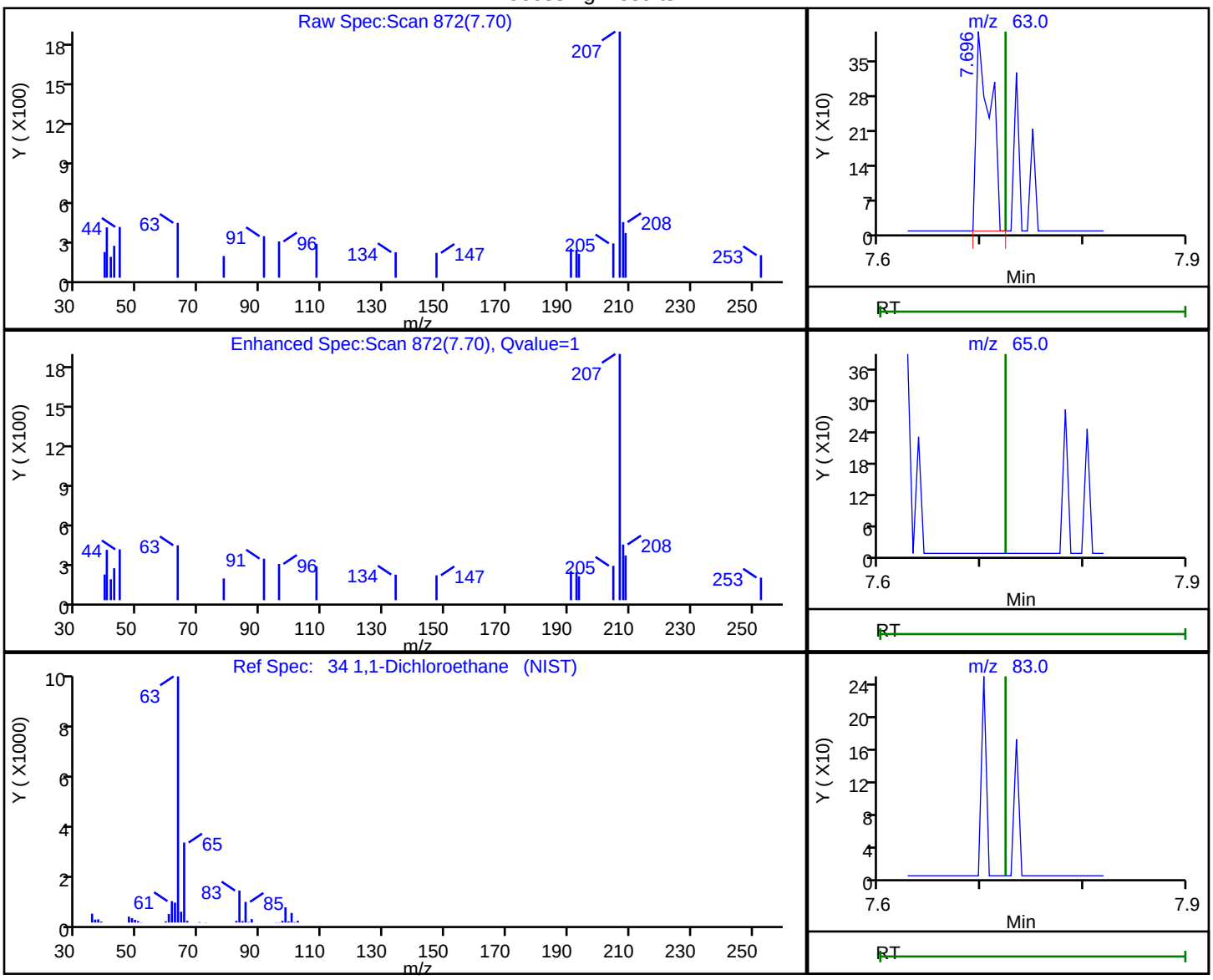
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 7.70 | 63.00 | 387 | 0.005152 |
| 7.72 | 65.00 | 0 | |
| 7.72 | 83.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

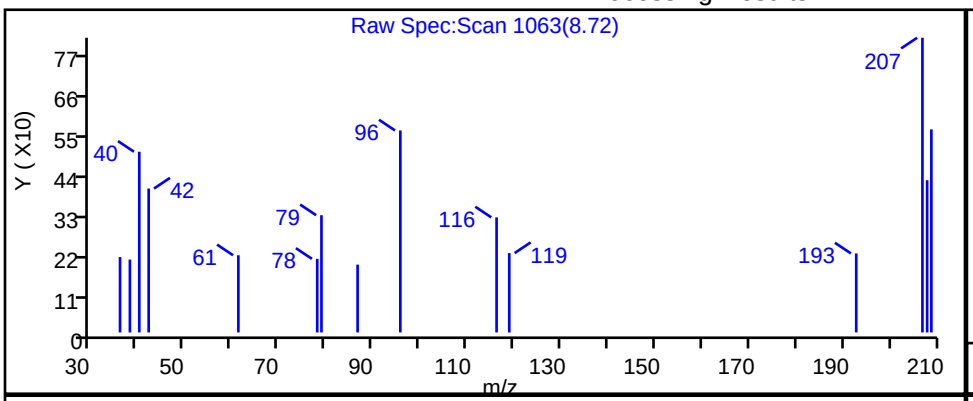
User Disabled Compound Report

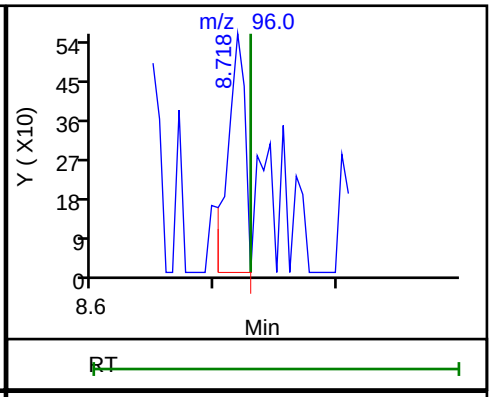
TestAmerica Burlington

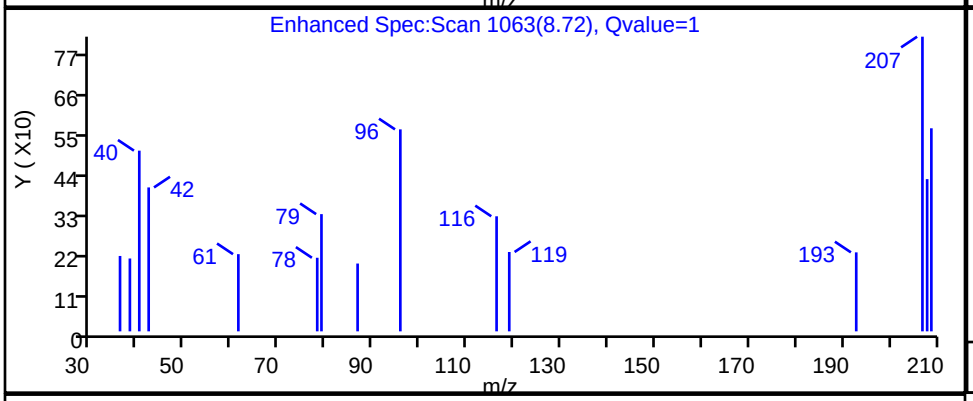
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

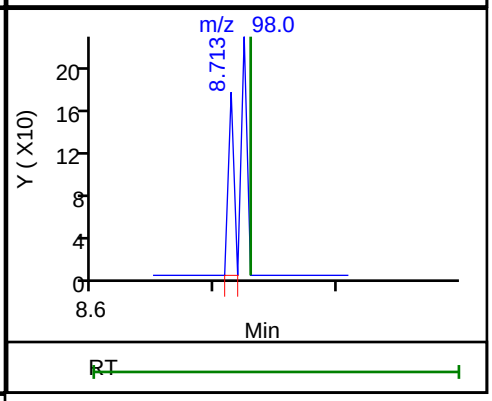
## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

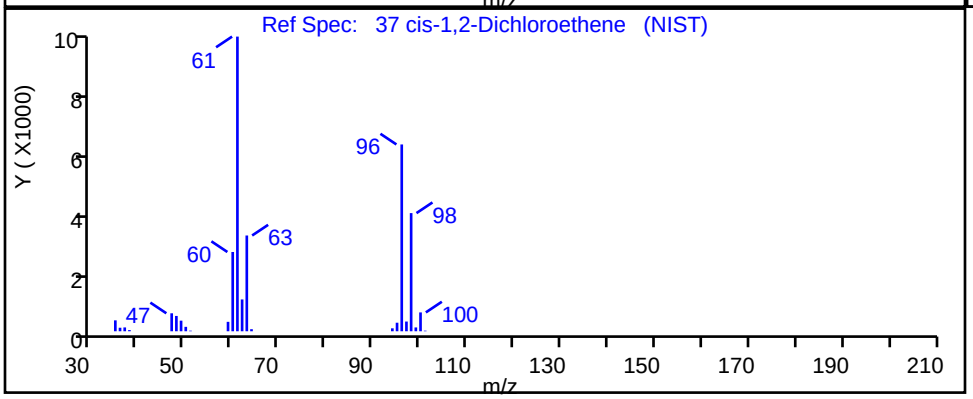
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.72 | 96.00 | 547 | 0.012020 |
| 8.71 | 98.00 | 55 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

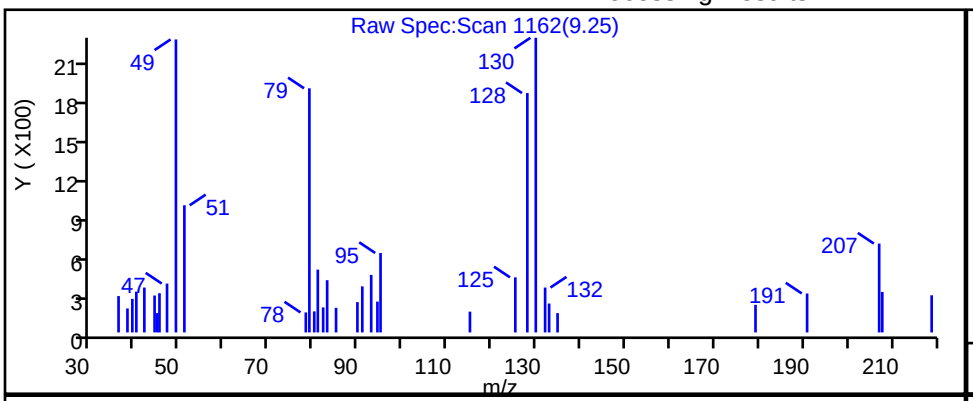
User Disabled Compound Report

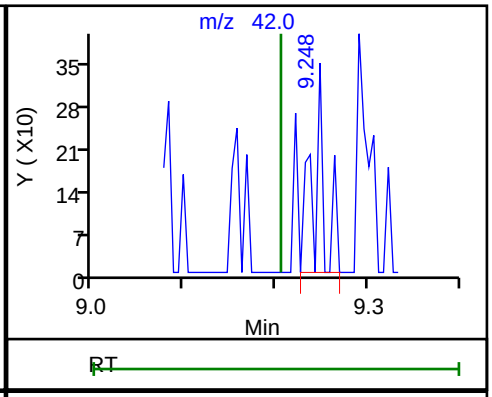
TestAmerica Burlington

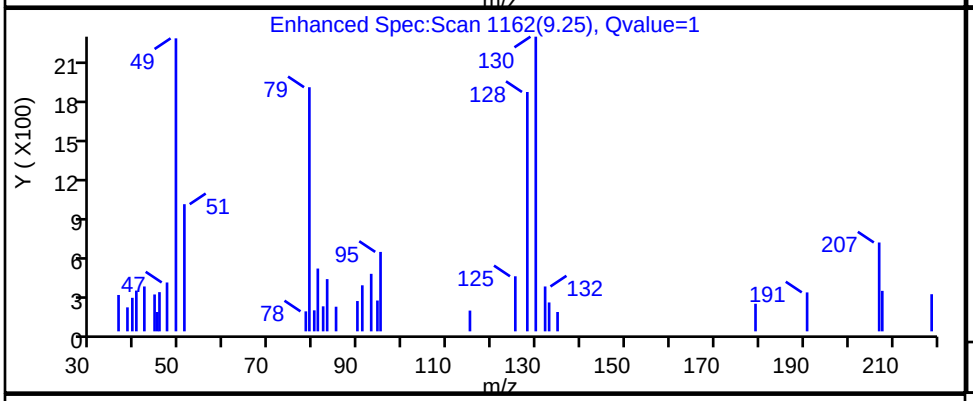
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

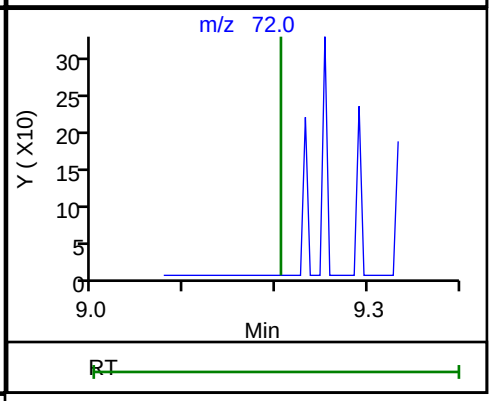
## 41 Tetrahydrofuran, CAS: 109-99-9

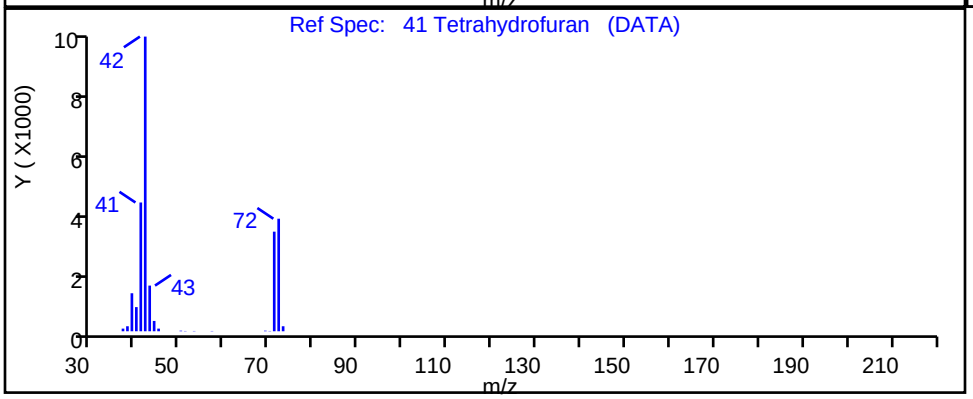
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.25 | 42.00 | 296 | 0.012275 |
| 9.21 | 72.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 15:53:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

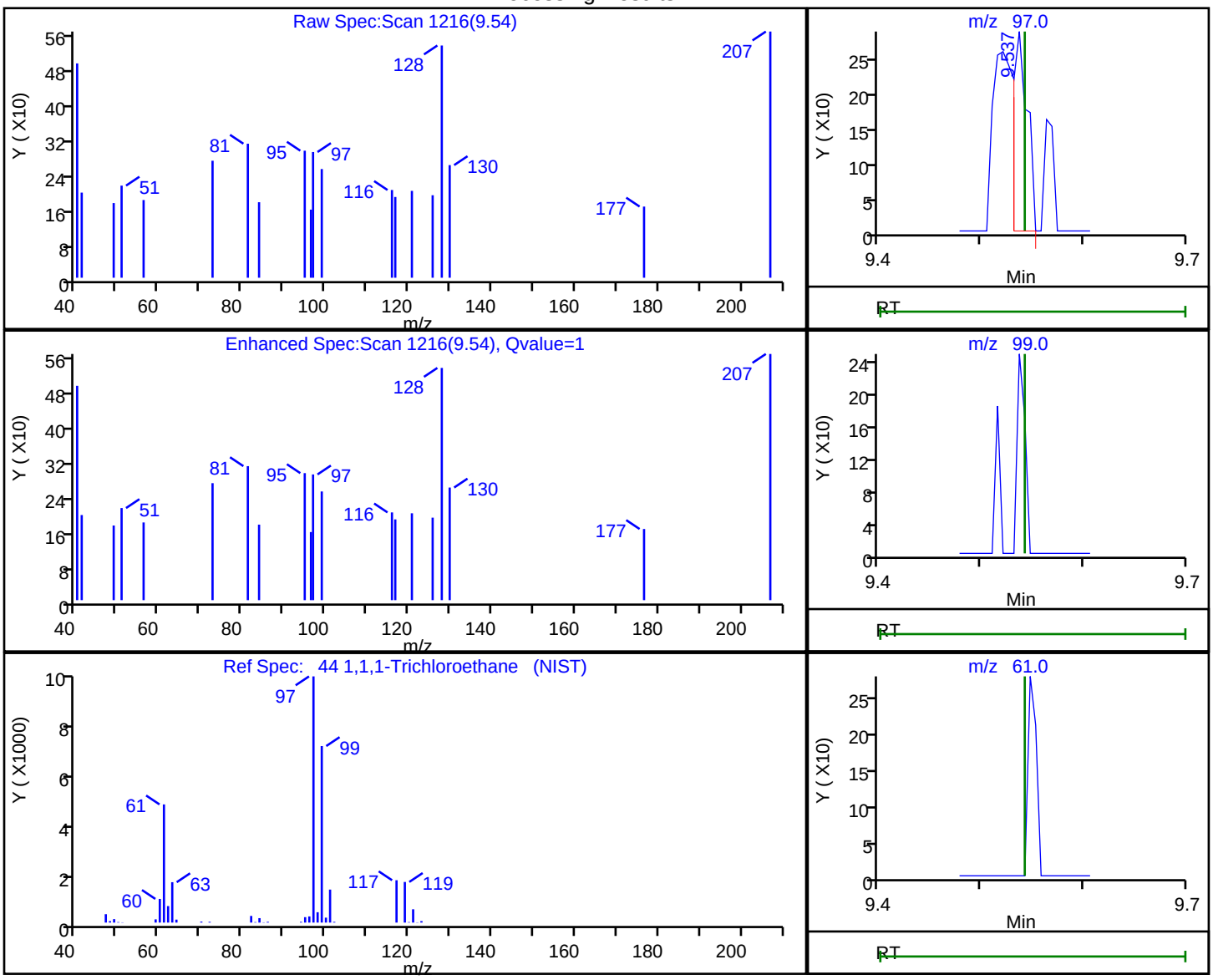
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.54 | 97.00 | 274 | 0.002333 |
| 9.54 | 99.00 | 0 | |
| 9.54 | 61.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

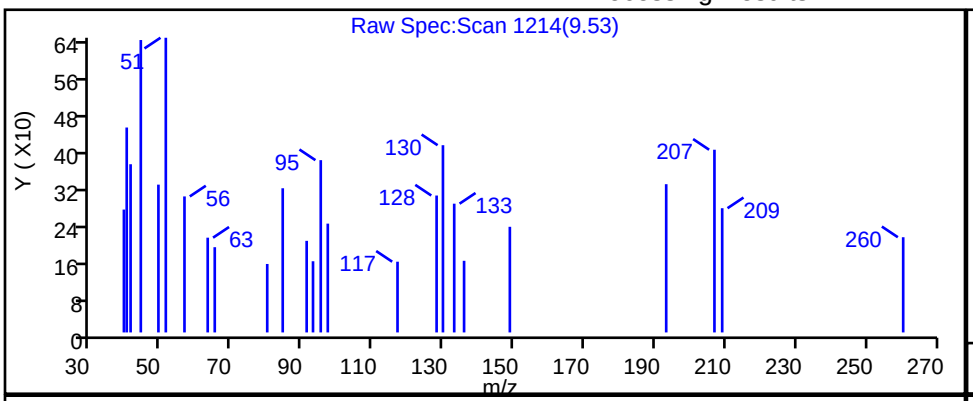
User Disabled Compound Report

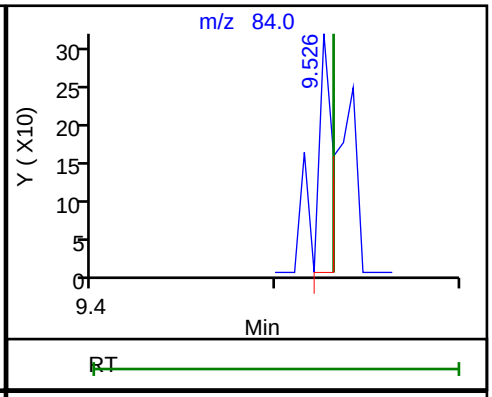
TestAmerica Burlington

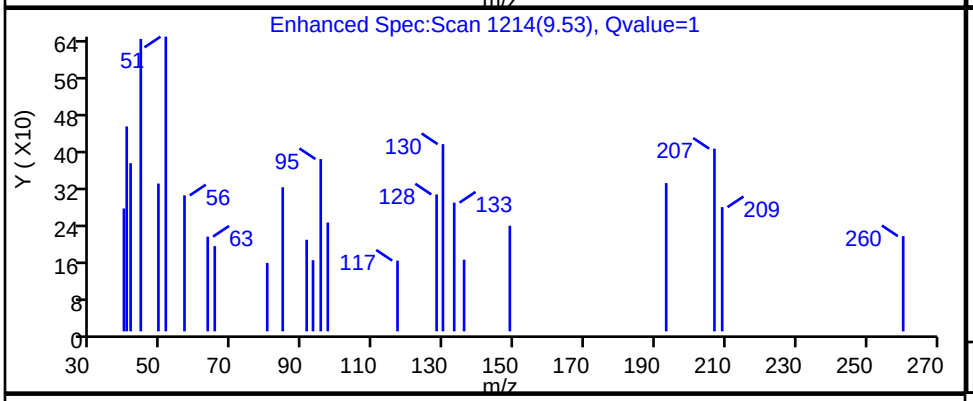
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

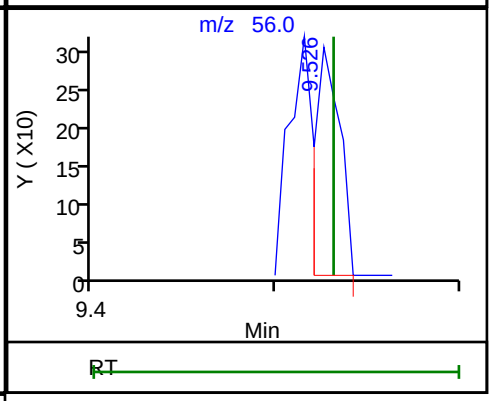
## 43 Cyclohexane, CAS: 110-82-7

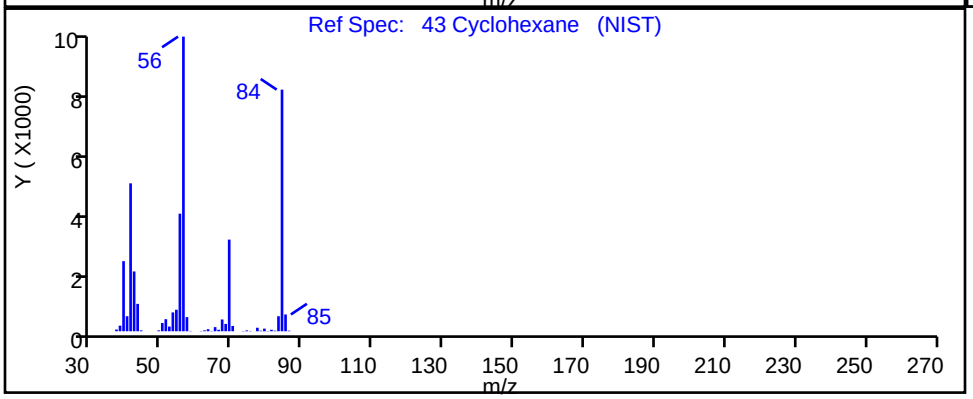
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.53 | 84.00 | 152 | 0.003133 |
| 9.53 | 56.00 | 283 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

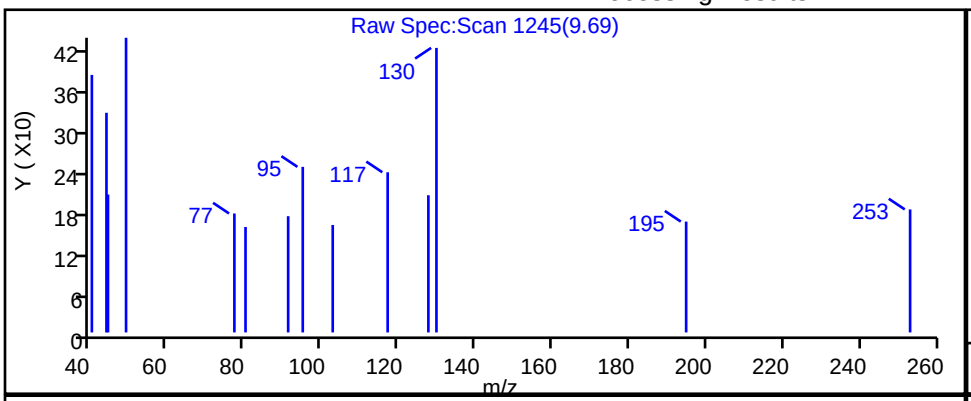
User Disabled Compound Report

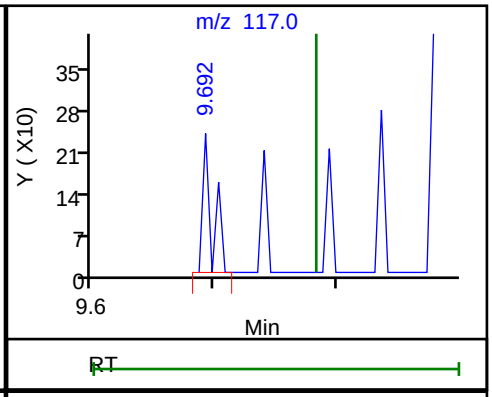
TestAmerica Burlington

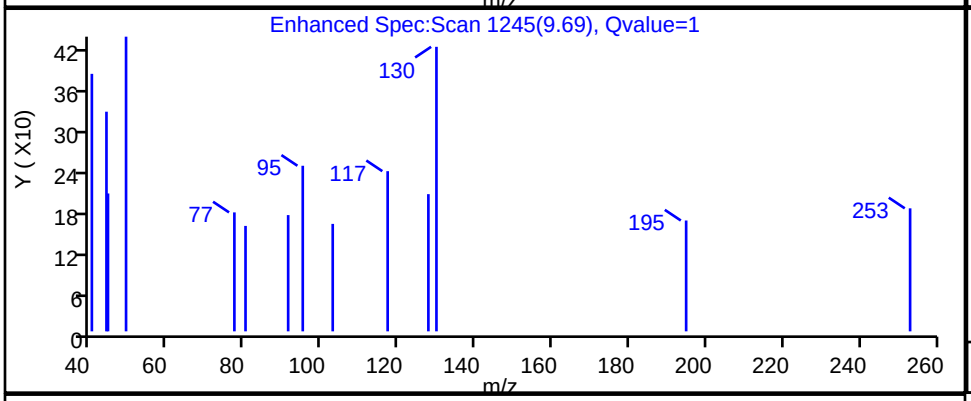
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

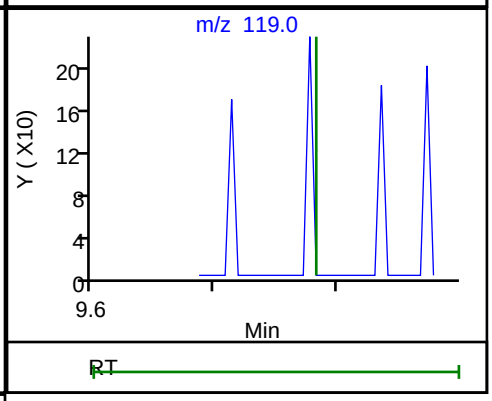
## 45 Carbon tetrachloride, CAS: 56-23-5

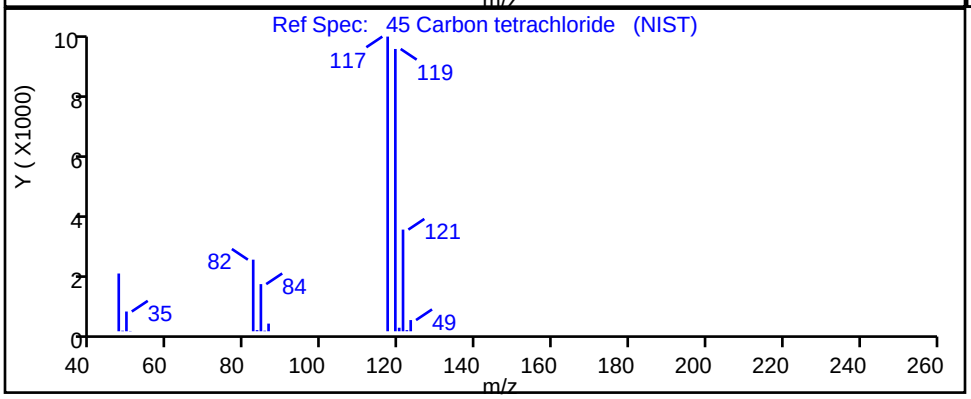
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 9.69 | 117.00 | 126 | 0.001004 |
| 9.78 | 119.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

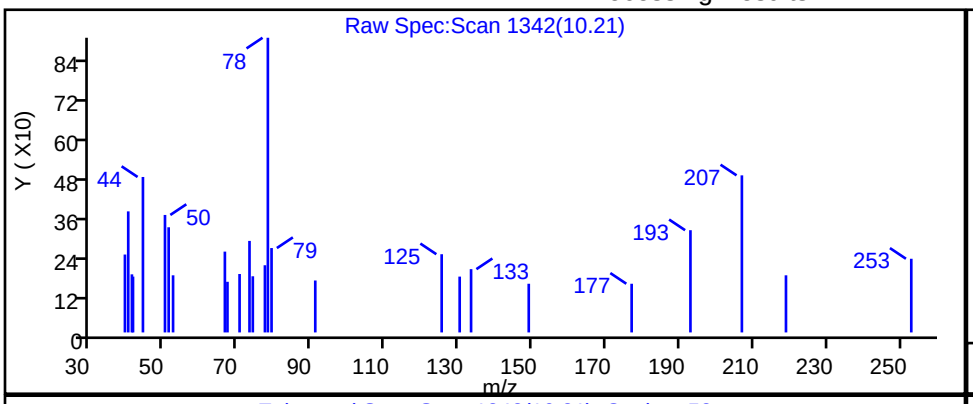
User Disabled Compound Report

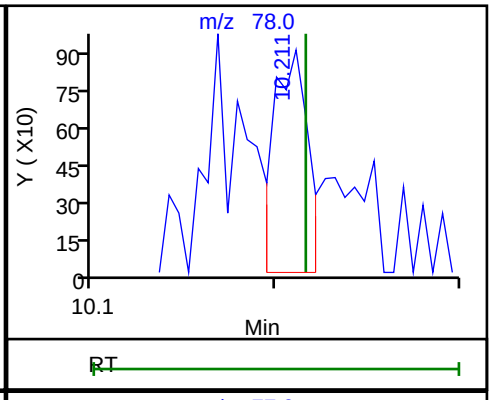
TestAmerica Burlington

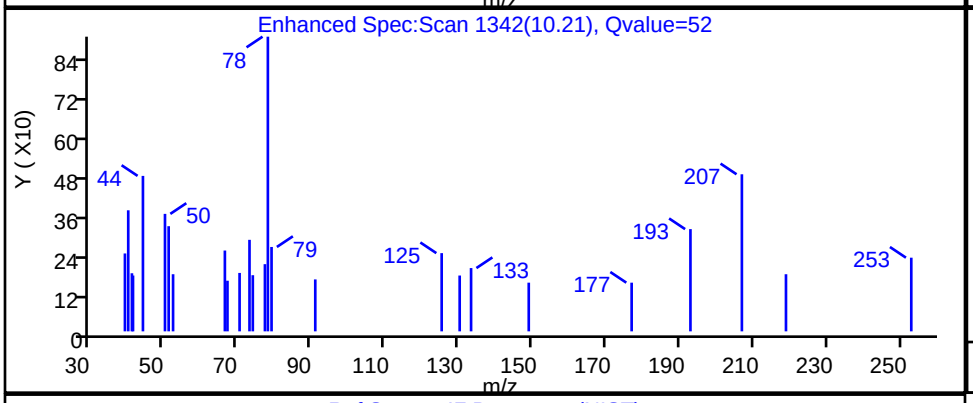
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

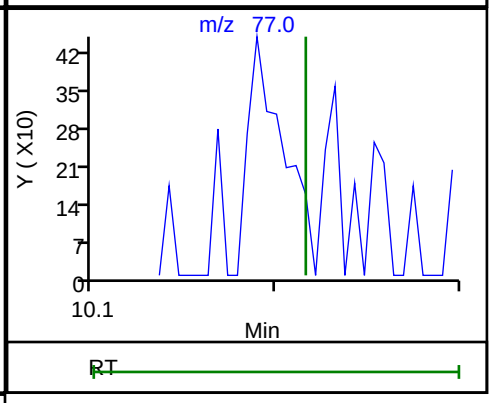
## 47 Benzene, CAS: 71-43-2

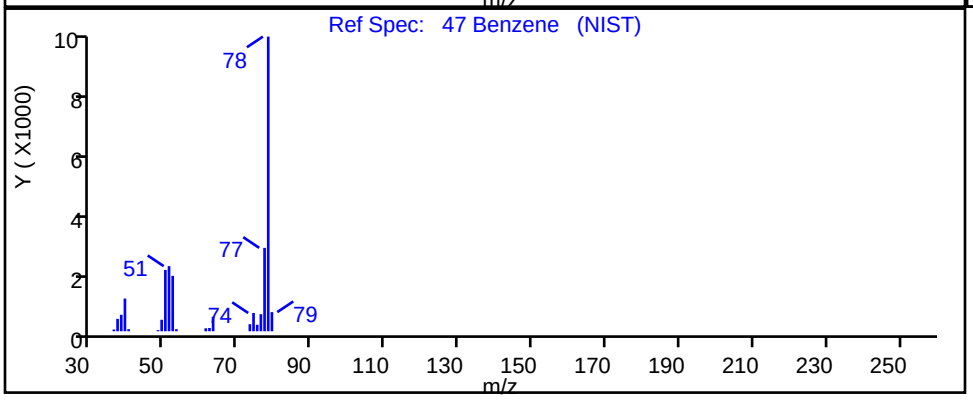
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.21 | 78.00 | 1208 | 0.010733 |
| 10.22 | 77.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

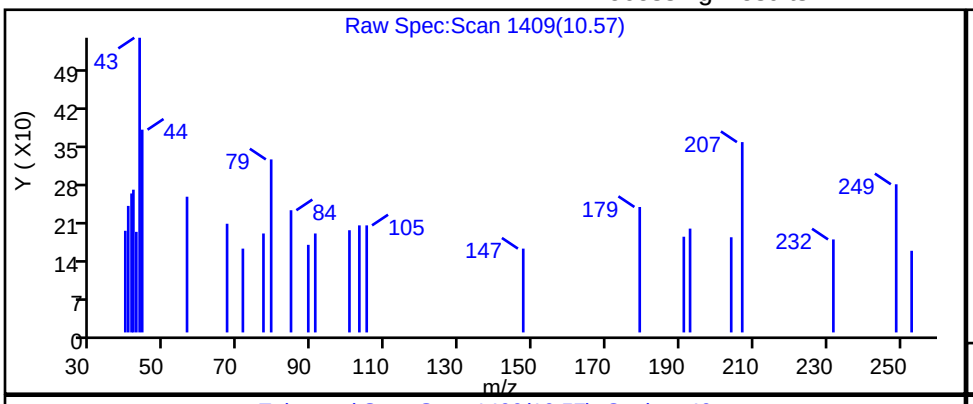
User Disabled Compound Report

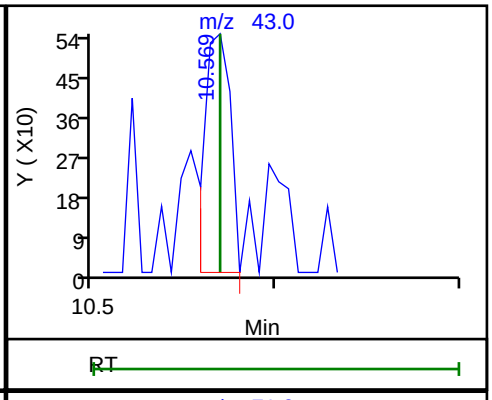
TestAmerica Burlington

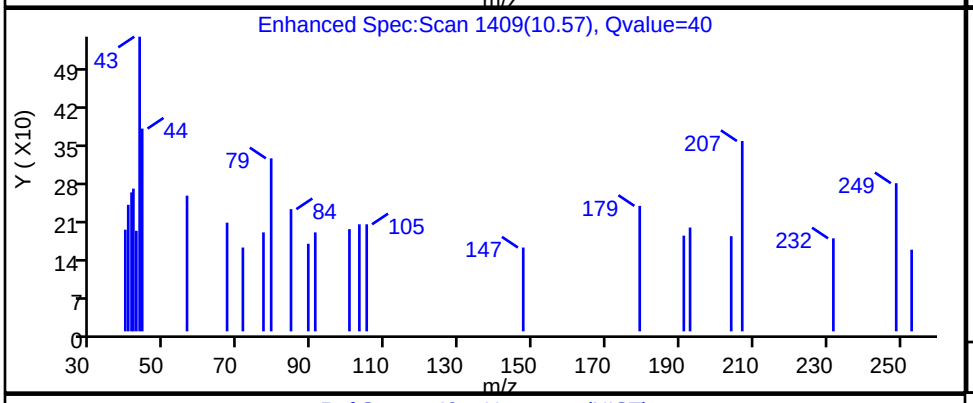
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

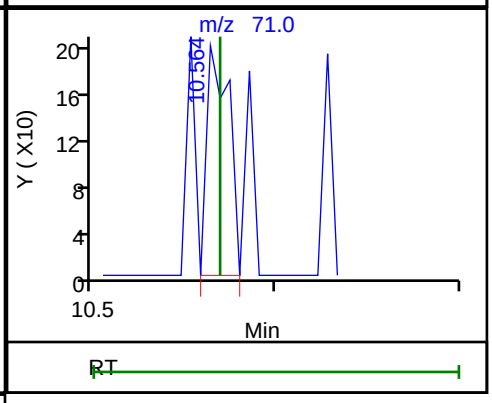
## 49 n-Heptane, CAS: 142-82-5

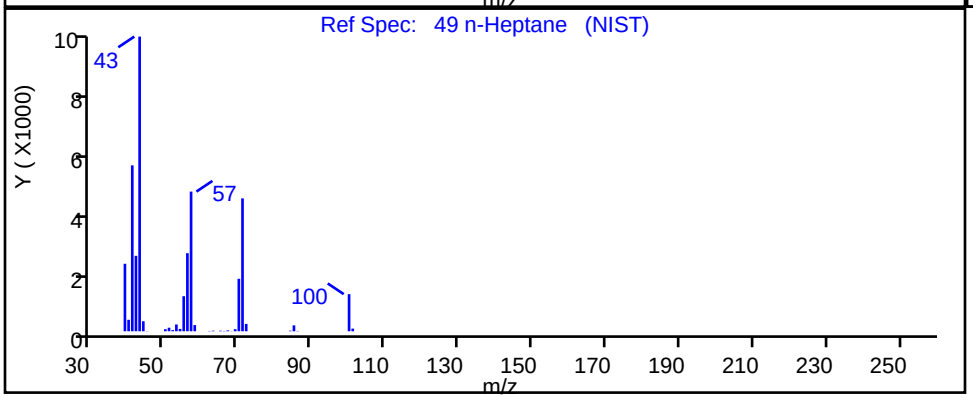
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.57 | 43.00 | 538 | 0.009290 |
| 10.56 | 71.00 | 169 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

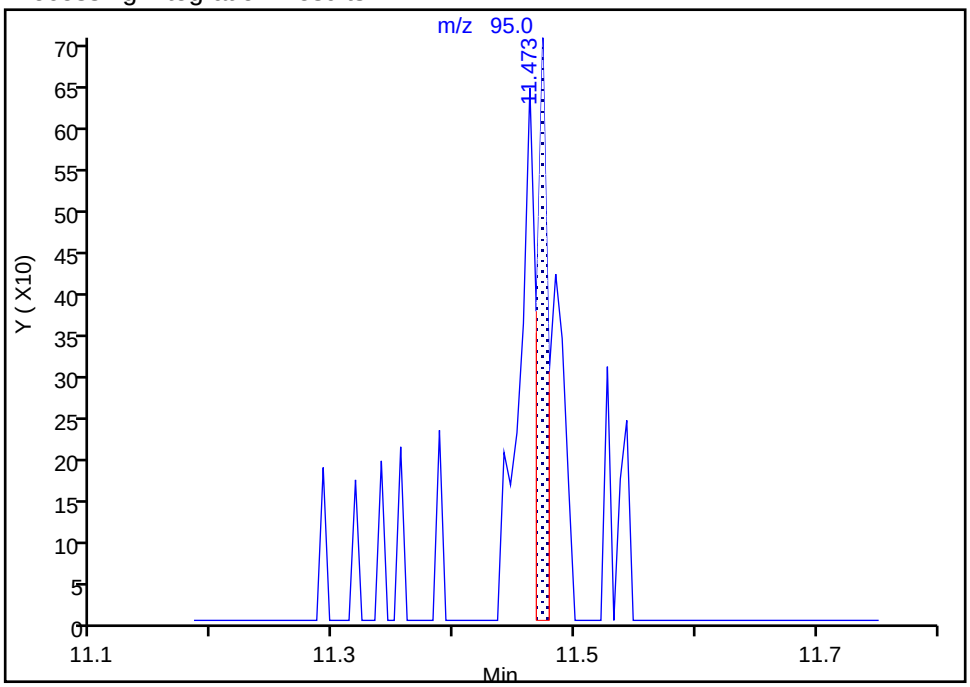
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 53 Trichloroethene, CAS: 79-01-6

Signal: 1

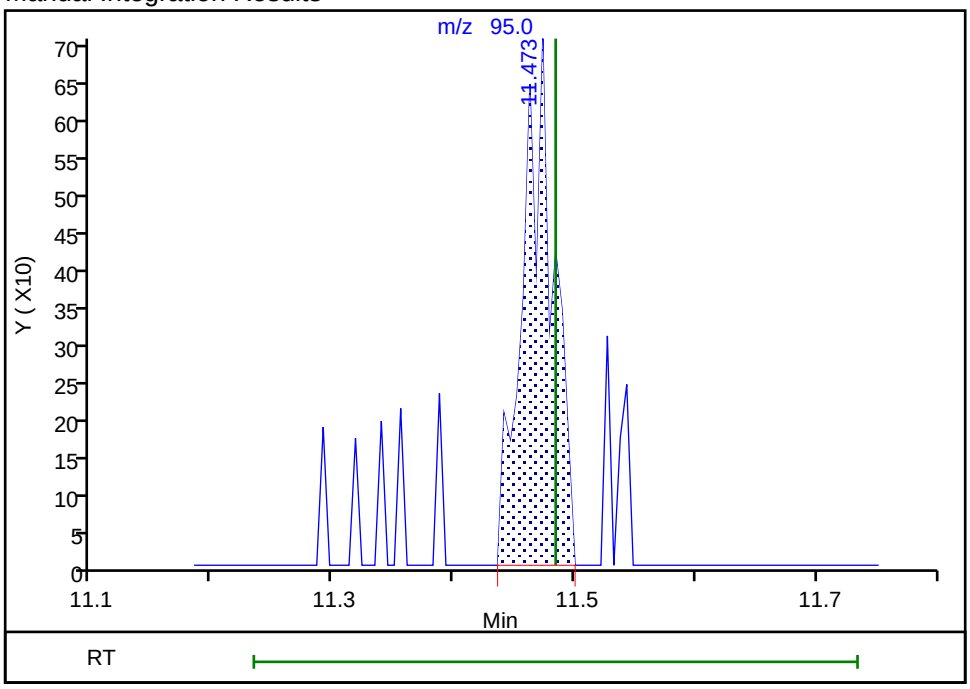
Processing Integration Results

RT: 11.47
Area: 443
Amount: 0.006015
Amount Units: ppb v/v




Manual Integration Results

RT: 11.47
Area: 1252
Amount: 0.016998
Amount Units: ppb v/v




Reviewer: puangmaleek, 07-Dec-2018 15:51:39

Audit Action: Manually Integrated Audit Reason: Assign Peak

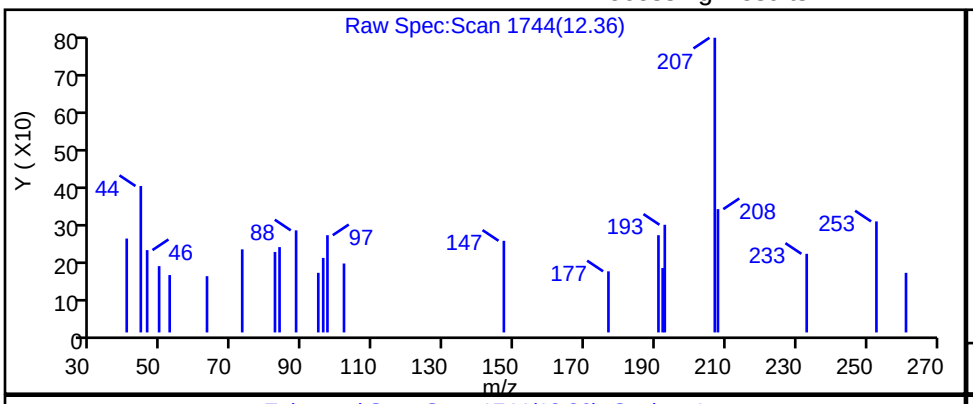
User Disabled Compound Report

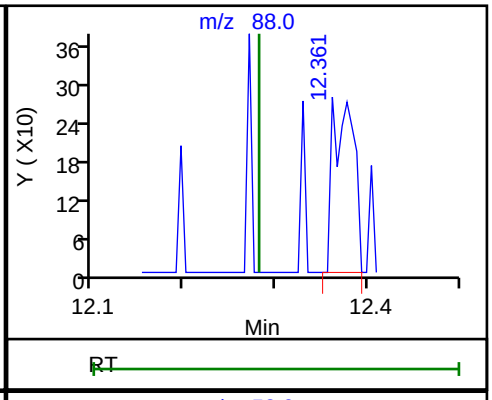
TestAmerica Burlington

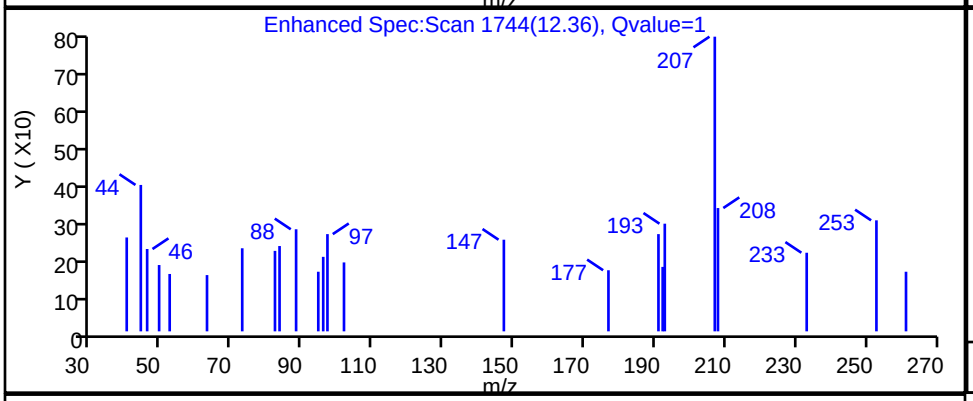
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

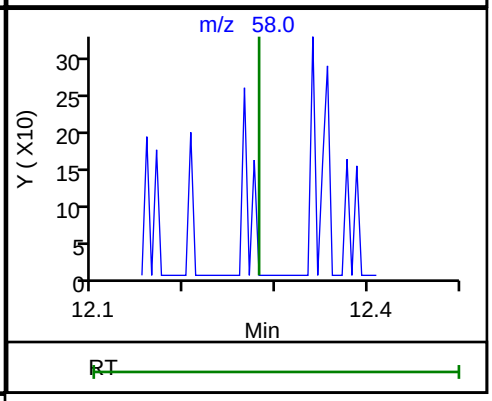
## 56 1,4-Dioxane, CAS: 123-91-1

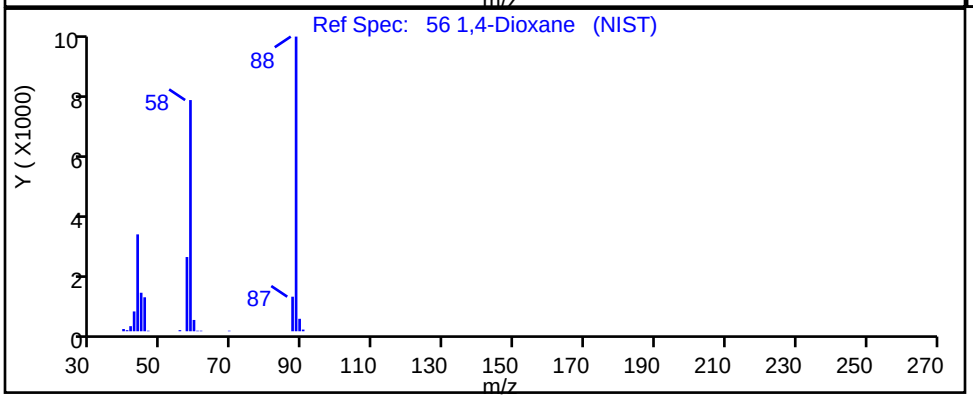
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 12.36 | 88.00 | 434 | 0.020977 |
| 12.28 | 58.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:51:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

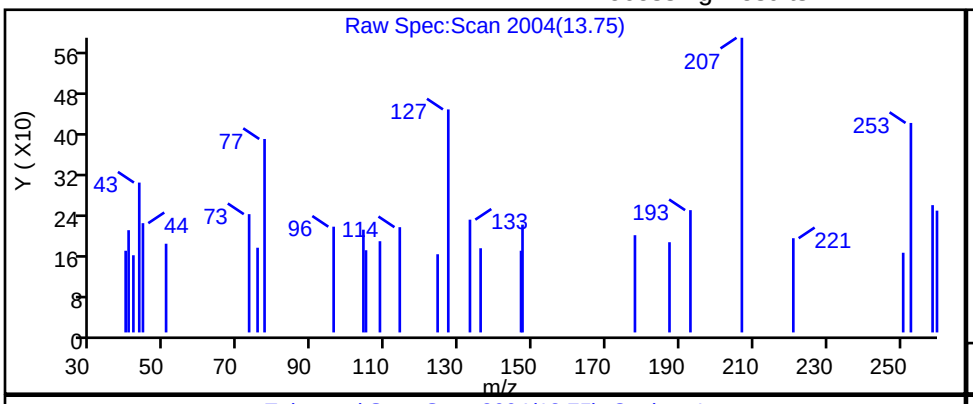
User Disabled Compound Report

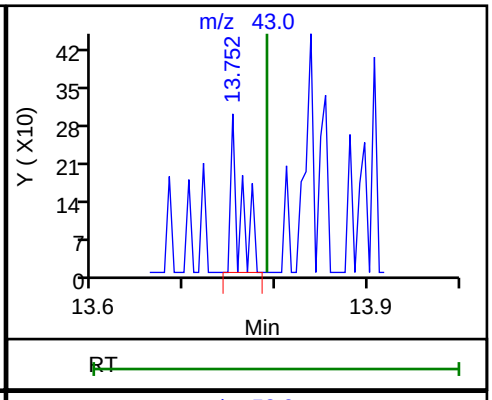
TestAmerica Burlington

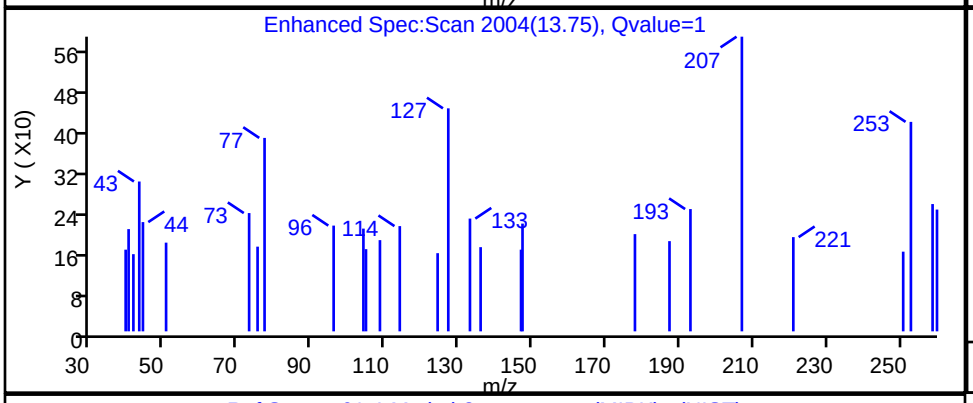
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

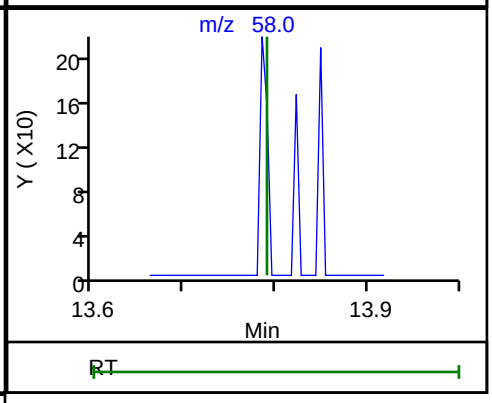
## 61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

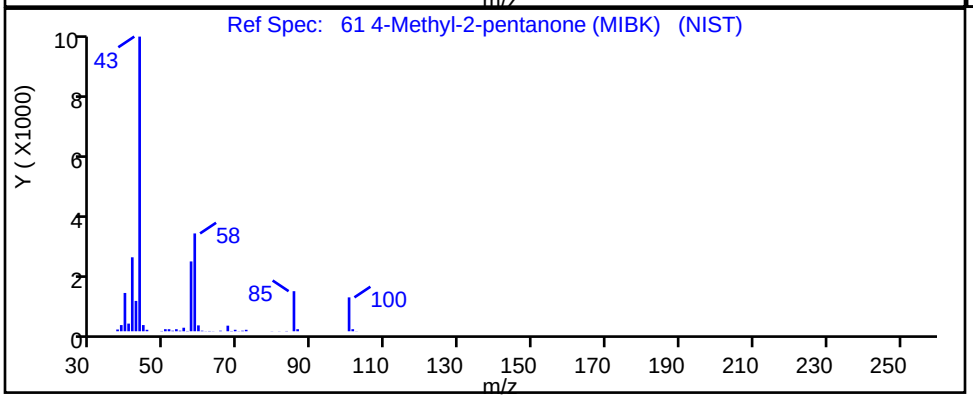
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 13.75 | 43.00 | 209 | 0.002856 |
| 13.79 | 58.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

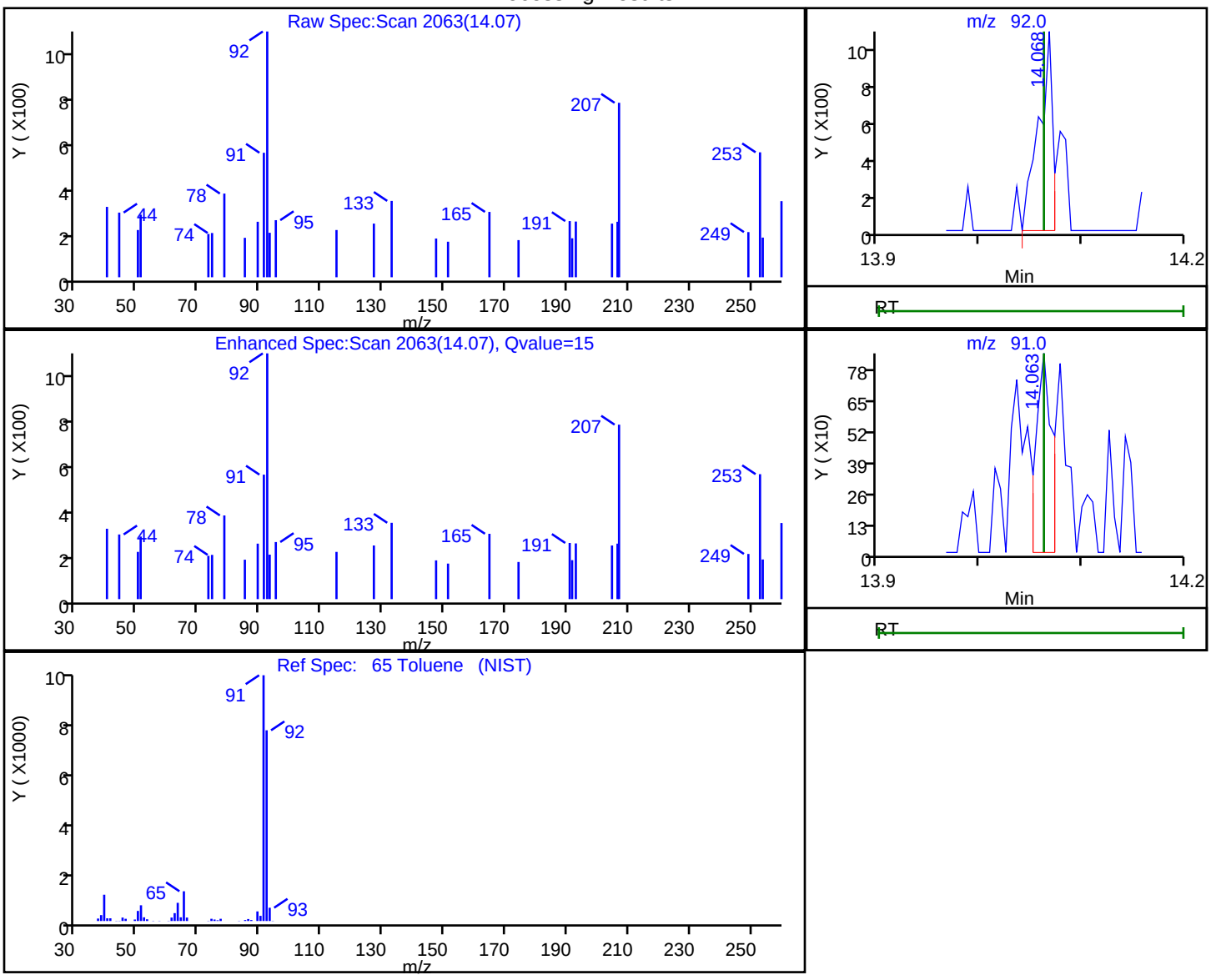
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 65 Toluene, CAS: 108-88-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.07 | 92.00 | 1028 | 0.011335 |
| 14.06 | 91.00 | 910 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

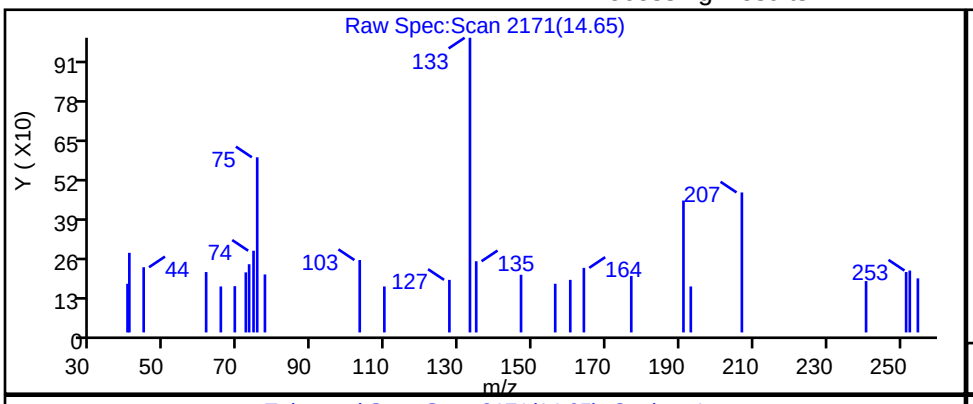
User Disabled Compound Report

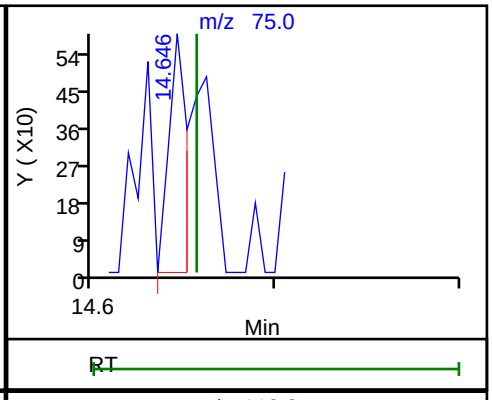
TestAmerica Burlington

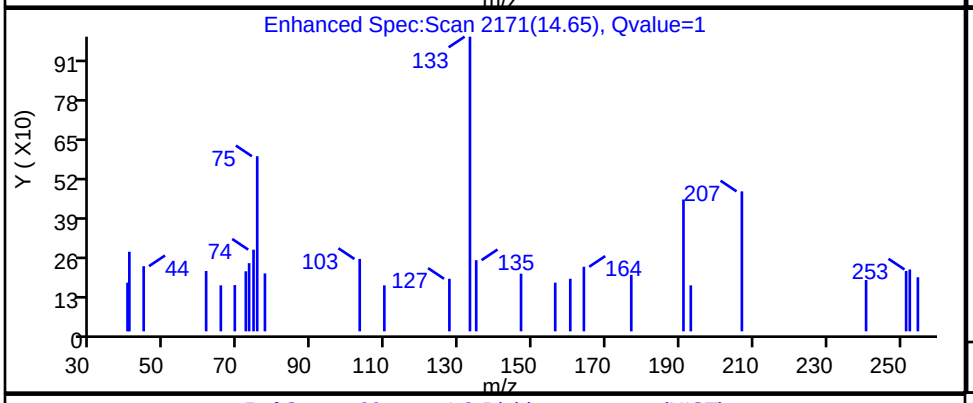
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

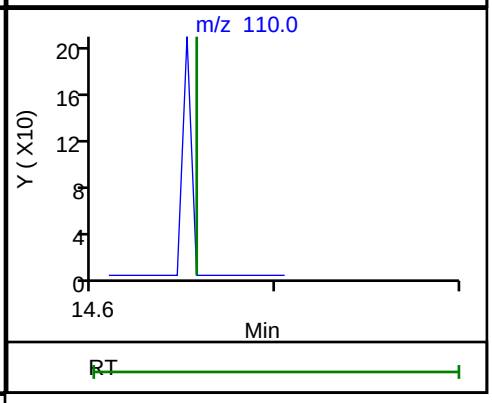
## 66 trans-1,3-Dichloropropene, CAS: 10061-02-6

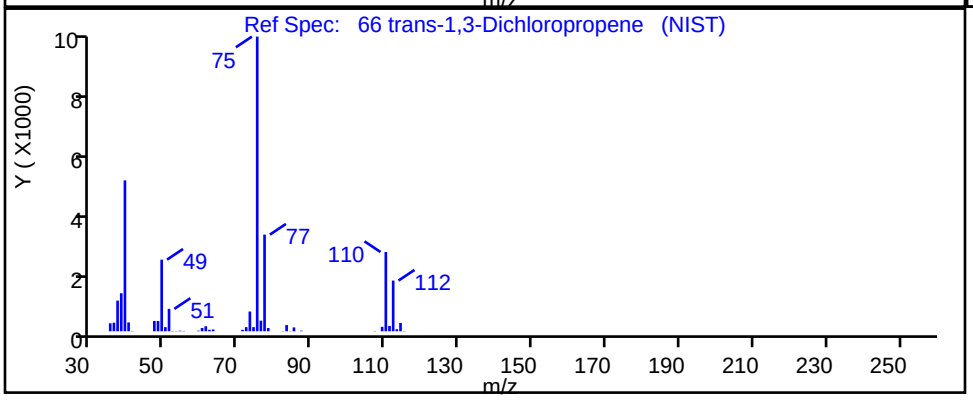
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.65 | 75.00 | 389 | 0.005585 |
| 14.65 | 110.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 15:53:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

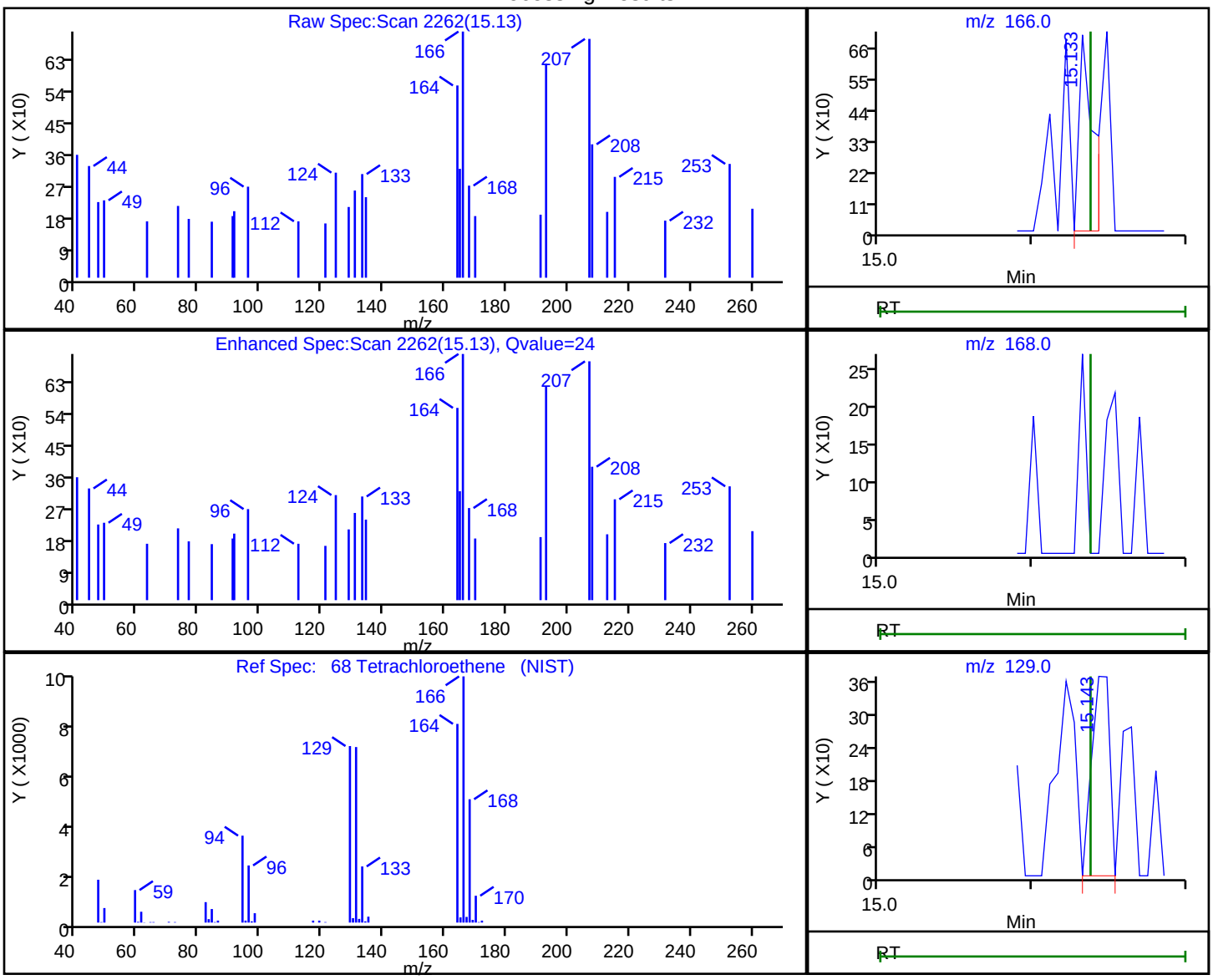
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.13 | 166.00 | 451 | 0.004153 |
| 15.14 | 129.00 | 295 | |
| 15.14 | 168.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

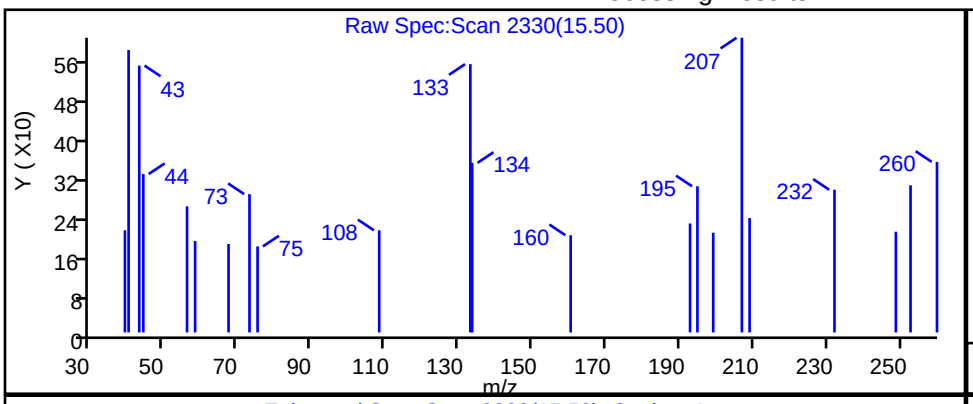
User Disabled Compound Report

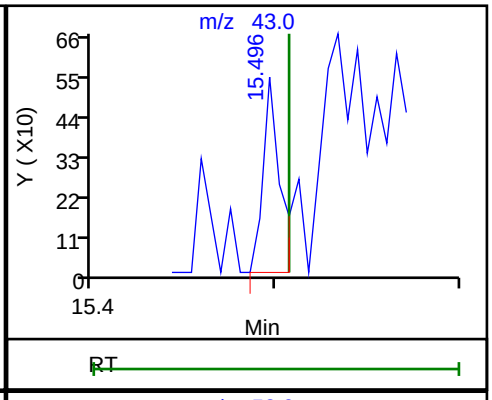
TestAmerica Burlington

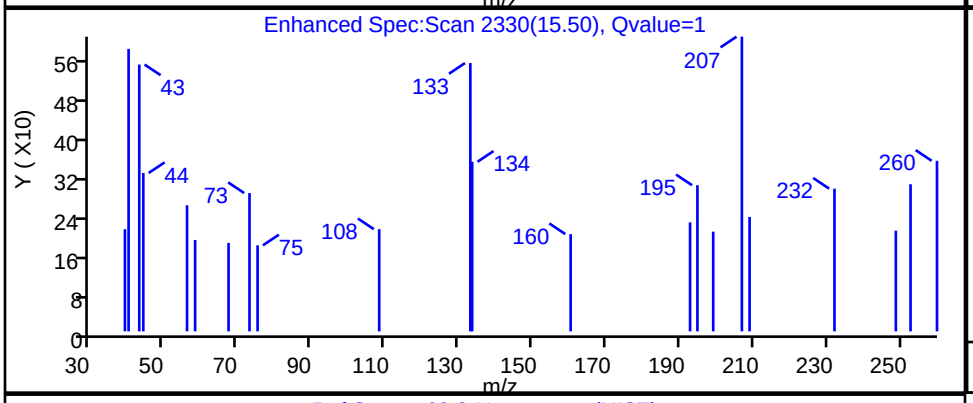
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

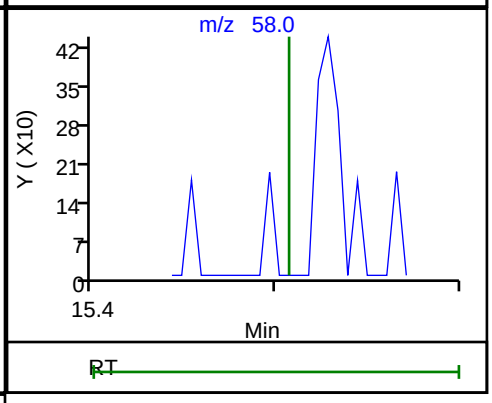
## 69 2-Hexanone, CAS: 591-78-6

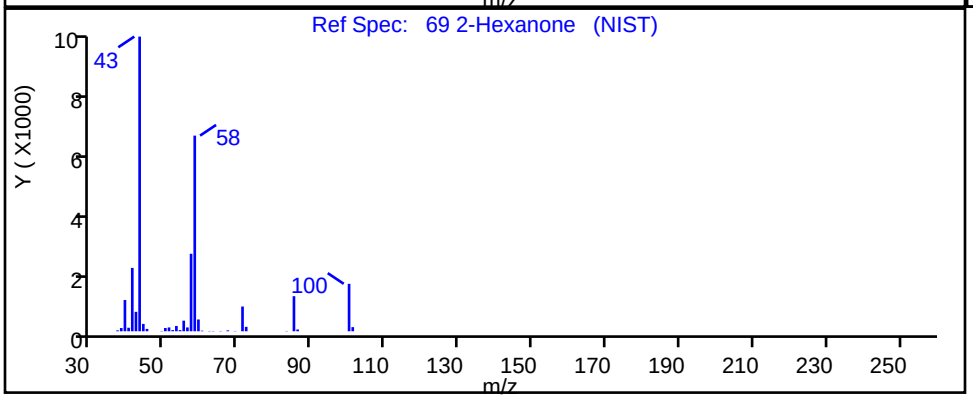
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.50 | 43.00 | 353 | 0.004429 |
| 15.51 | 58.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

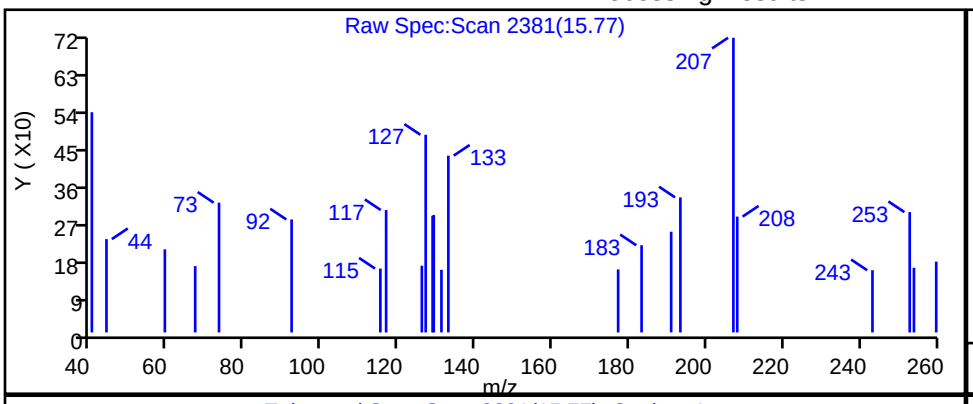
User Disabled Compound Report

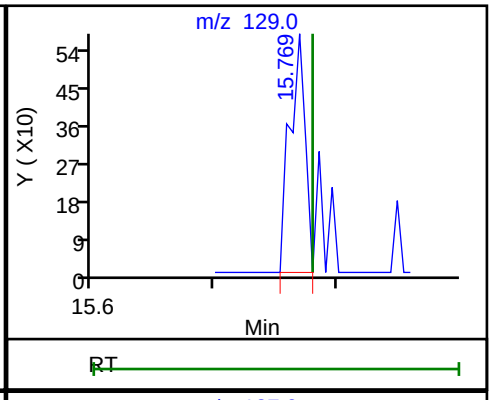
TestAmerica Burlington

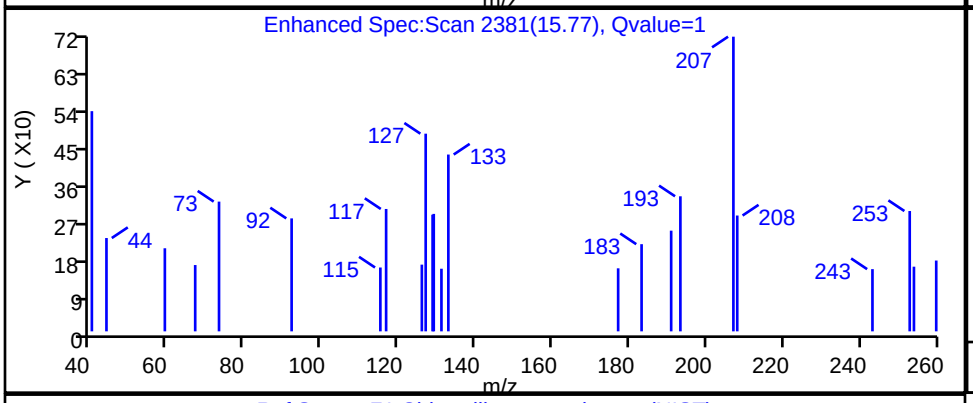
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

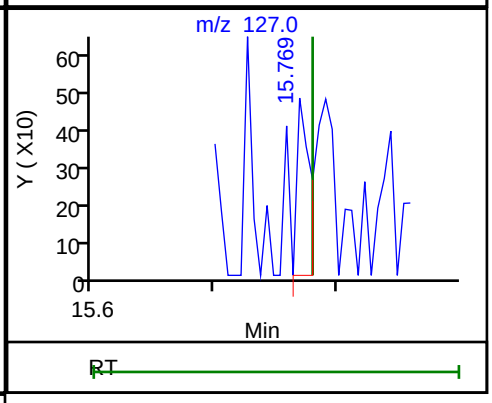
## 71 Chlorodibromomethane, CAS: 124-48-1

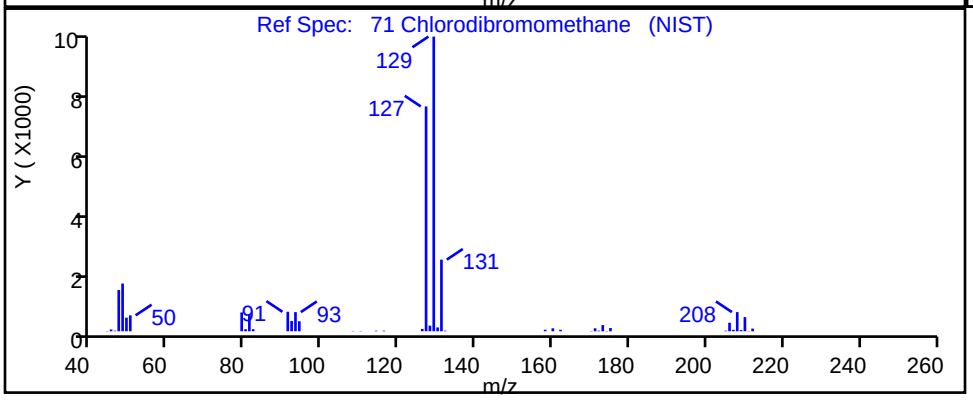
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.77 | 129.00 | 502 | 0.003827 |
| 15.77 | 127.00 | 351 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

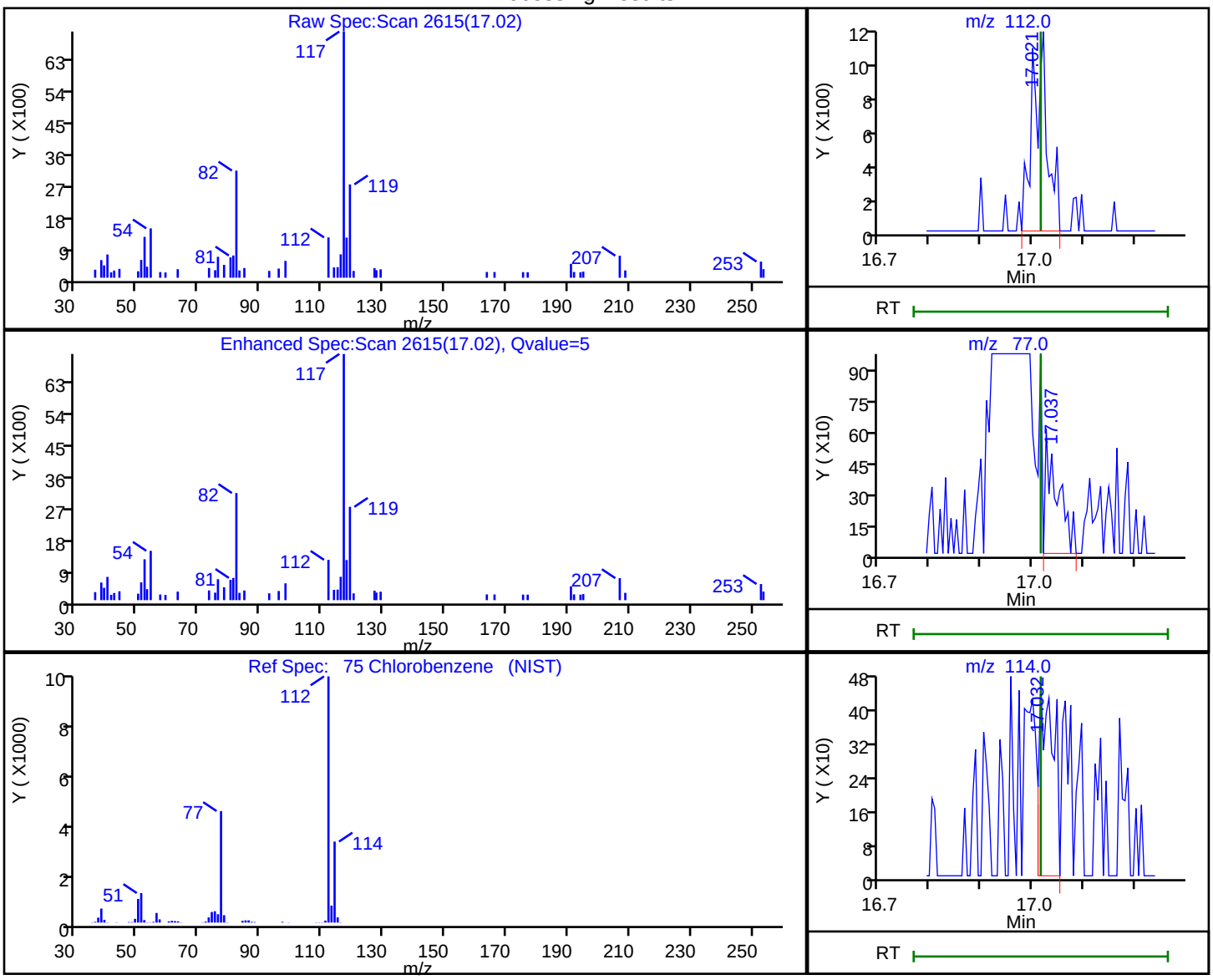
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.02 | 112.00 | 2319 | 0.016624 |
| 17.04 | 77.00 | 997 | |
| 17.03 | 114.00 | 885 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

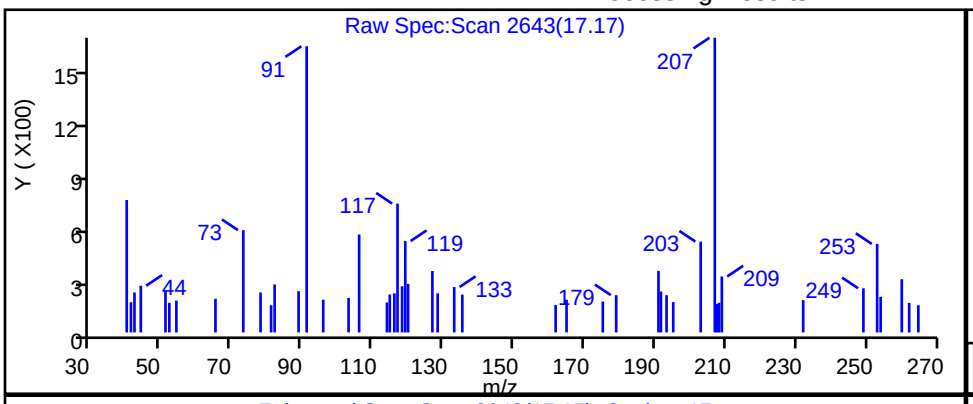
User Disabled Compound Report

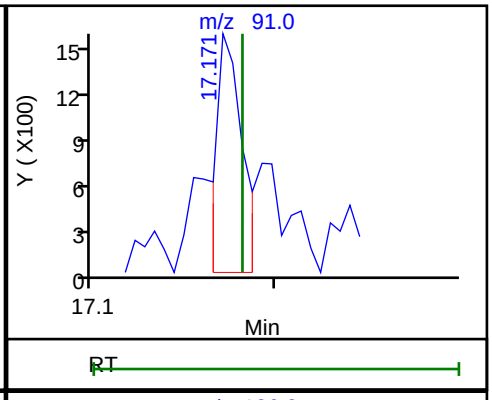
TestAmerica Burlington

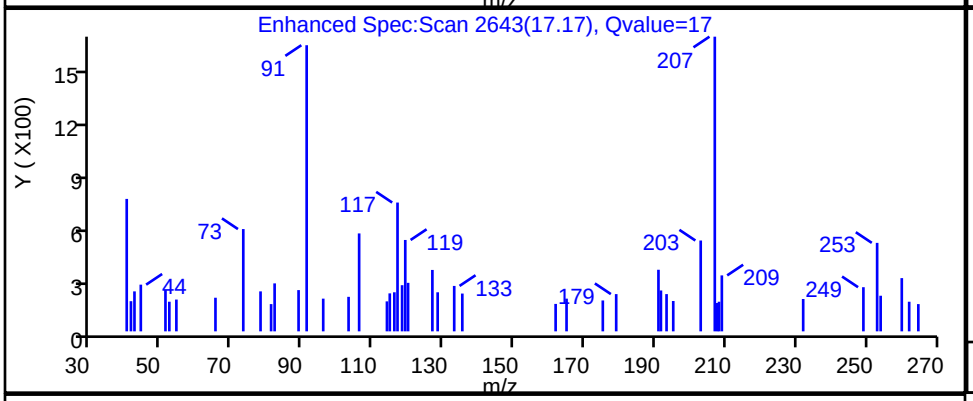
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

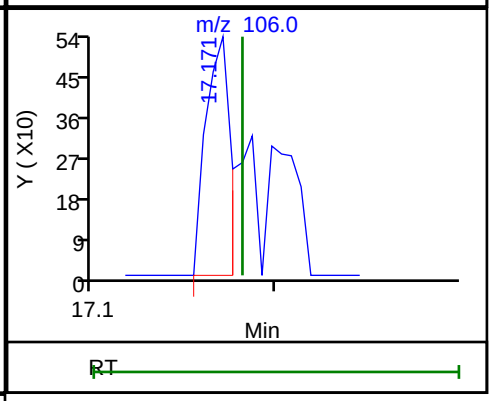
## 76 Ethylbenzene, CAS: 100-41-4

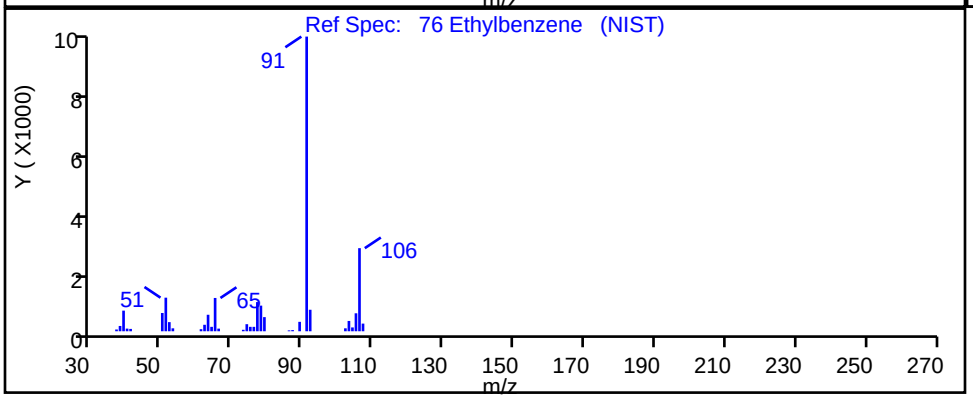
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.17 | 91.00 | 1574 | 0.007707 |
| 17.17 | 106.00 | 500 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

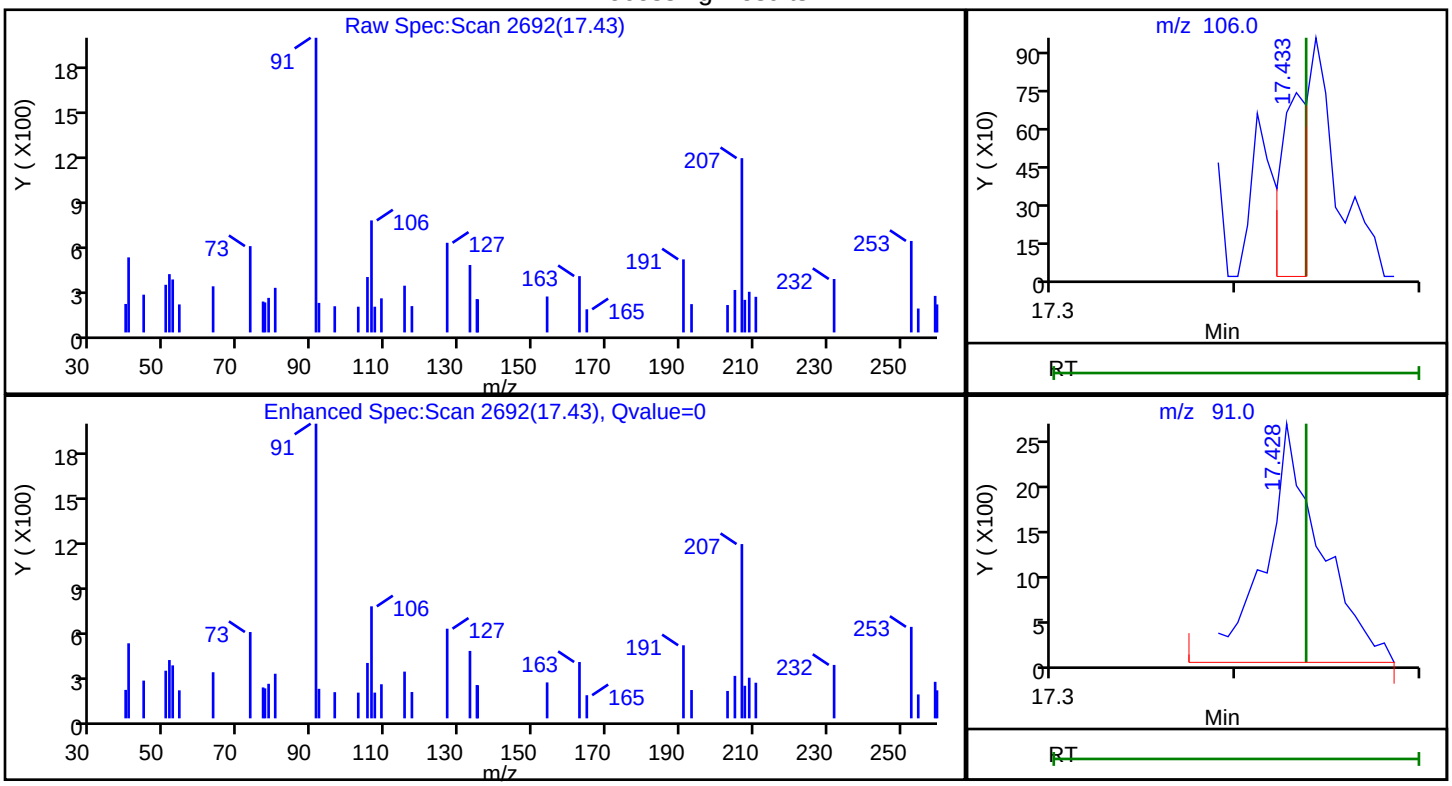
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.43 | 106.00 | 779 | 0.009410 |
| 17.43 | 91.00 | 5679 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

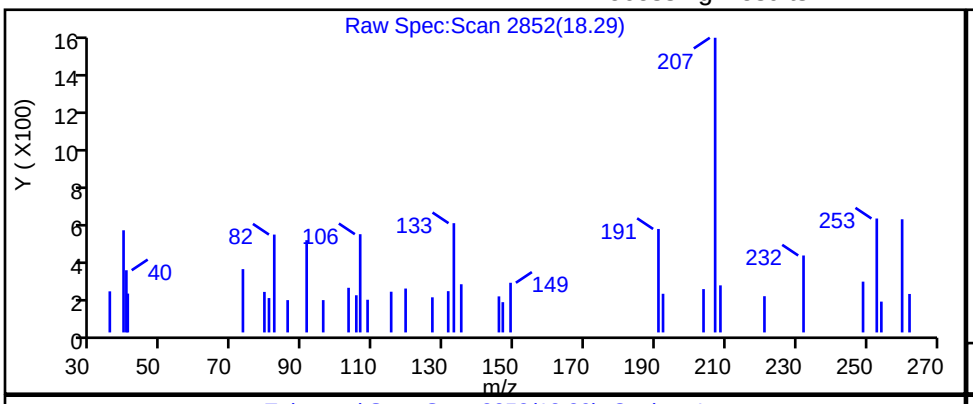
User Disabled Compound Report

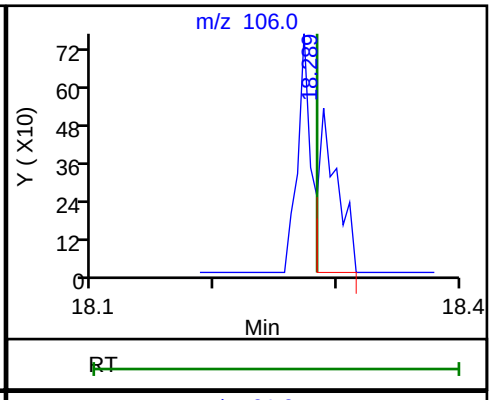
TestAmerica Burlington

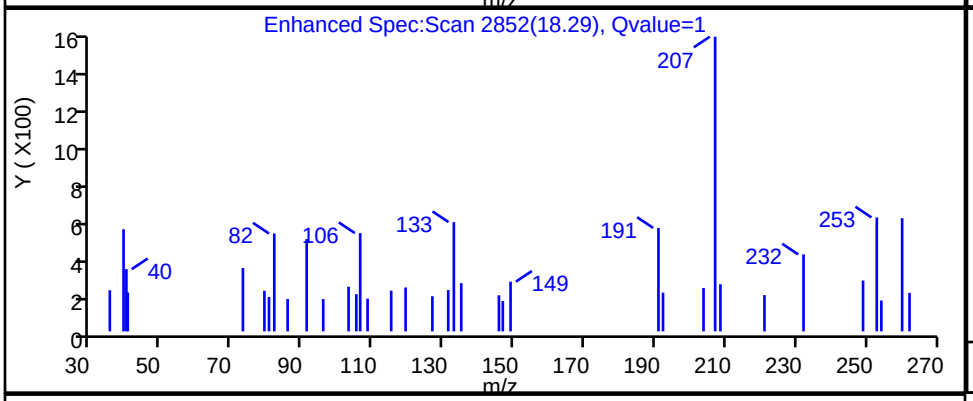
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

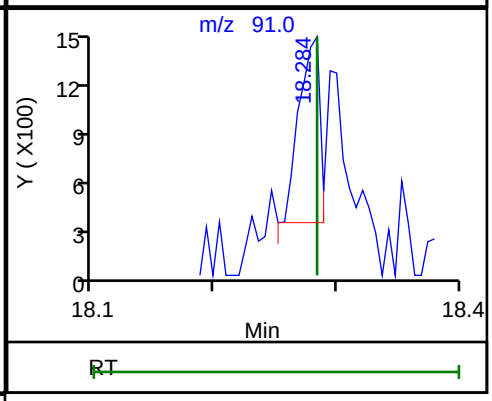
## 79 o-Xylene, CAS: 95-47-6

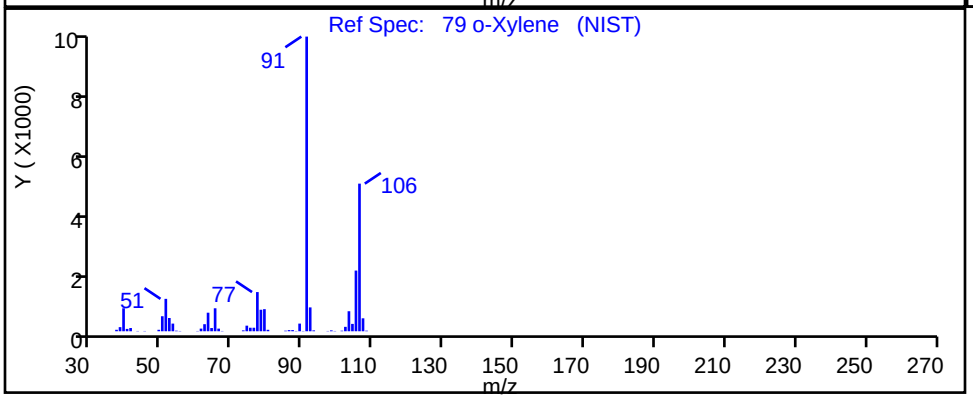
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.29 | 106.00 | 572 | 0.007270 |
| 18.28 | 91.00 | 1304 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

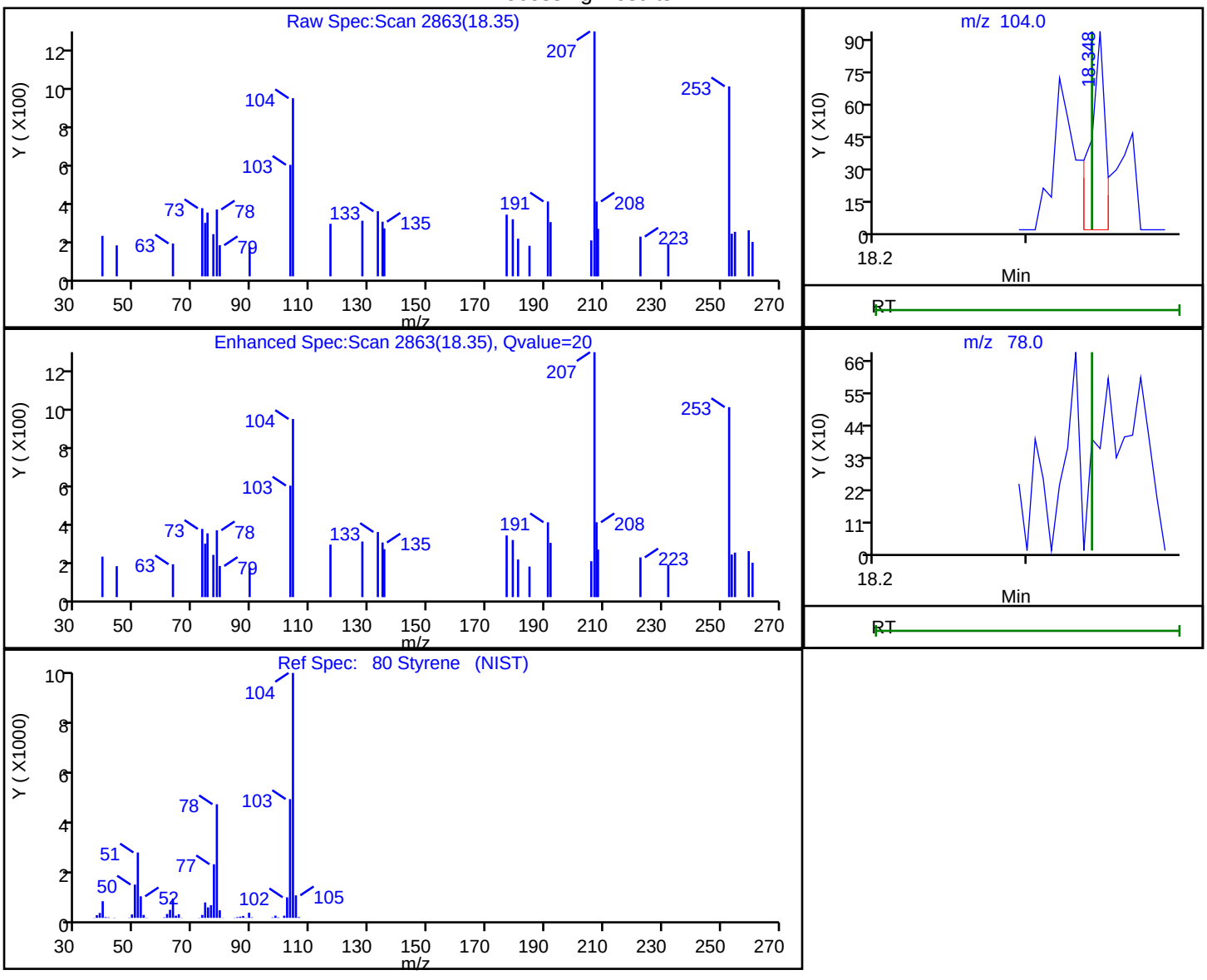
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 80 Styrene, CAS: 100-42-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.35 | 104.00 | 620 | 0.005148 |
| 18.34 | 78.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

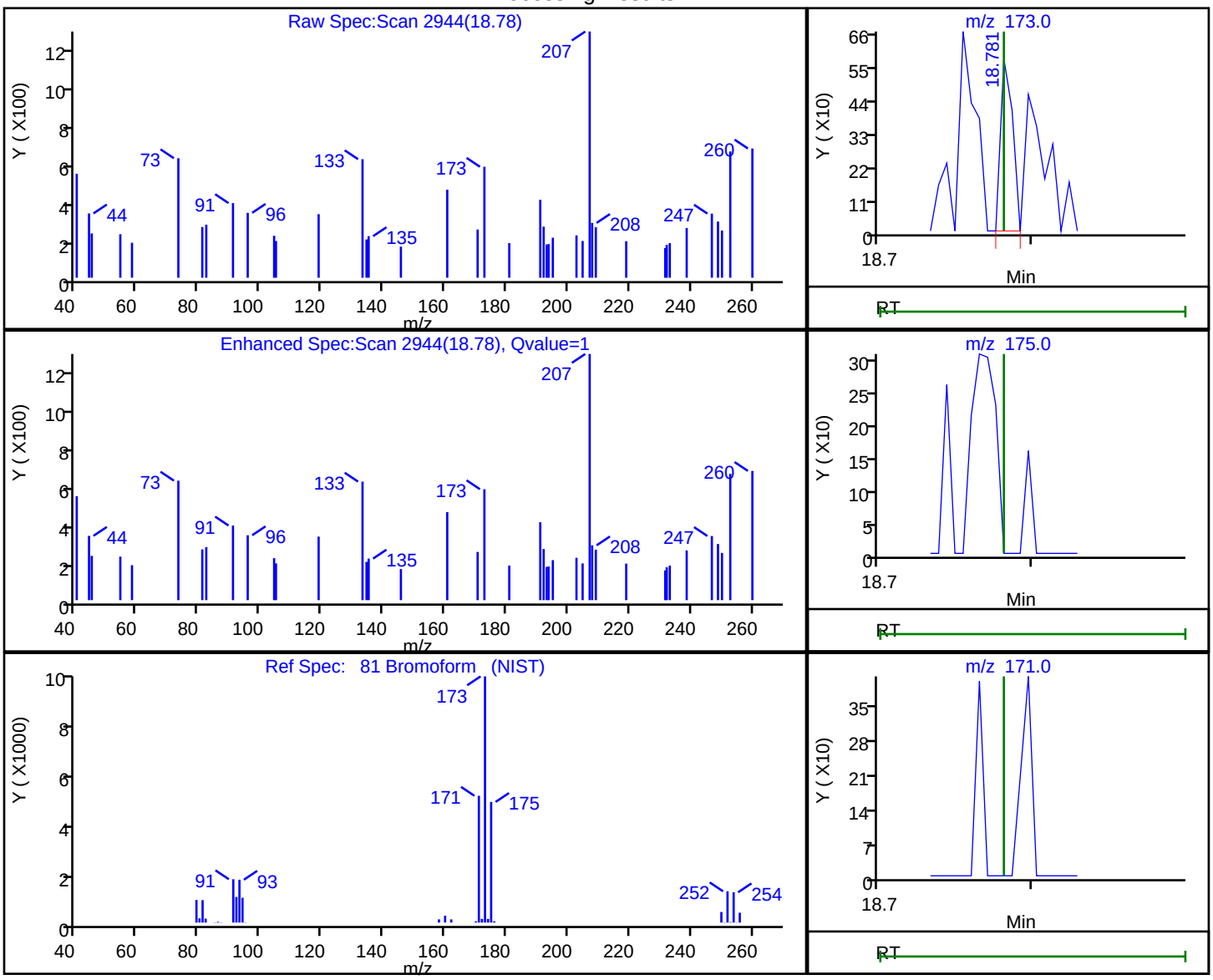
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 81 Bromoform, CAS: 75-25-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.78 | 173.00 | 312 | 0.002629 |
| 18.78 | 175.00 | 0 | |
| 18.78 | 171.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

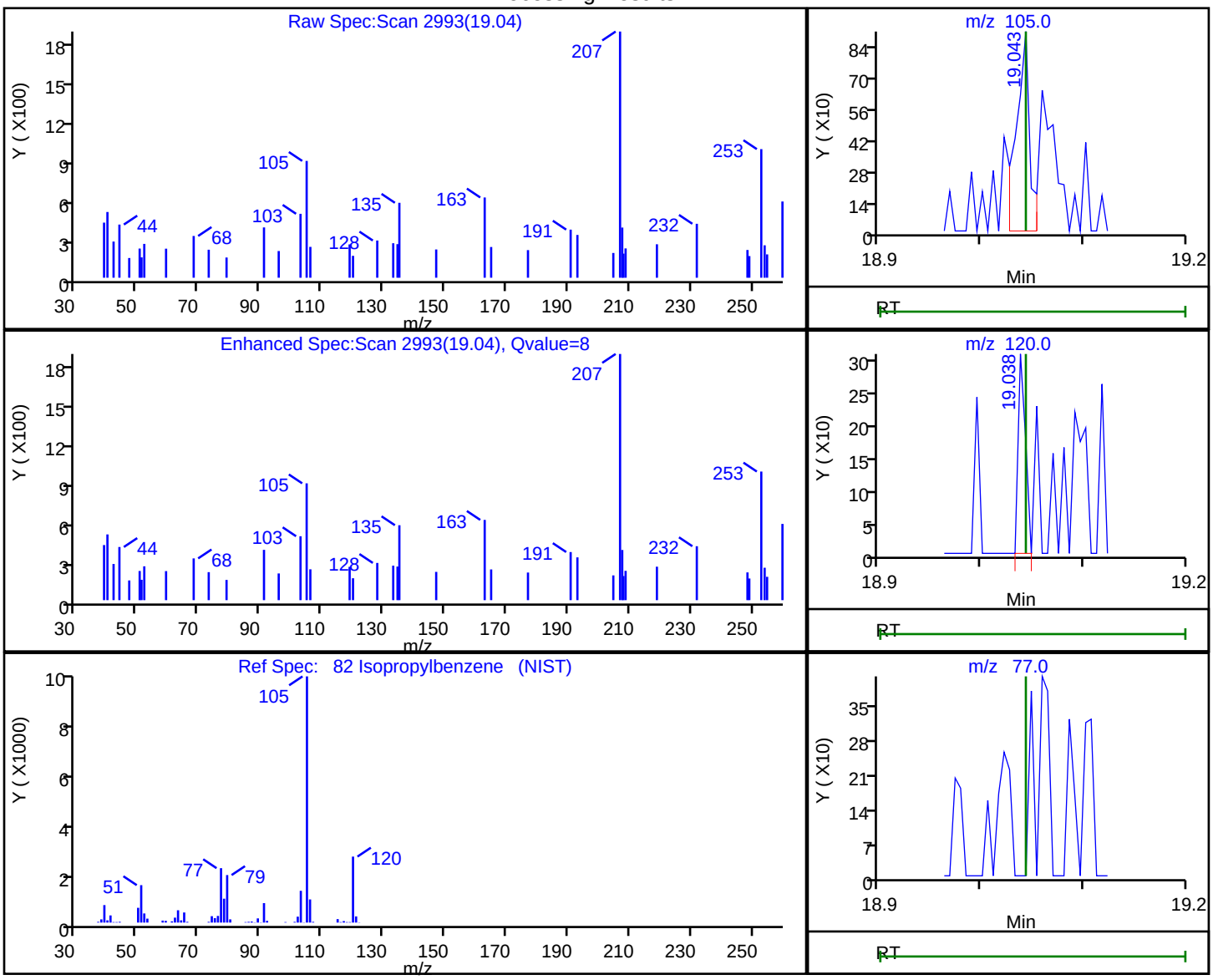
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.04 | 105.00 | 829 | 0.003604 |
| 19.04 | 120.00 | 152 | |
| 19.04 | 77.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

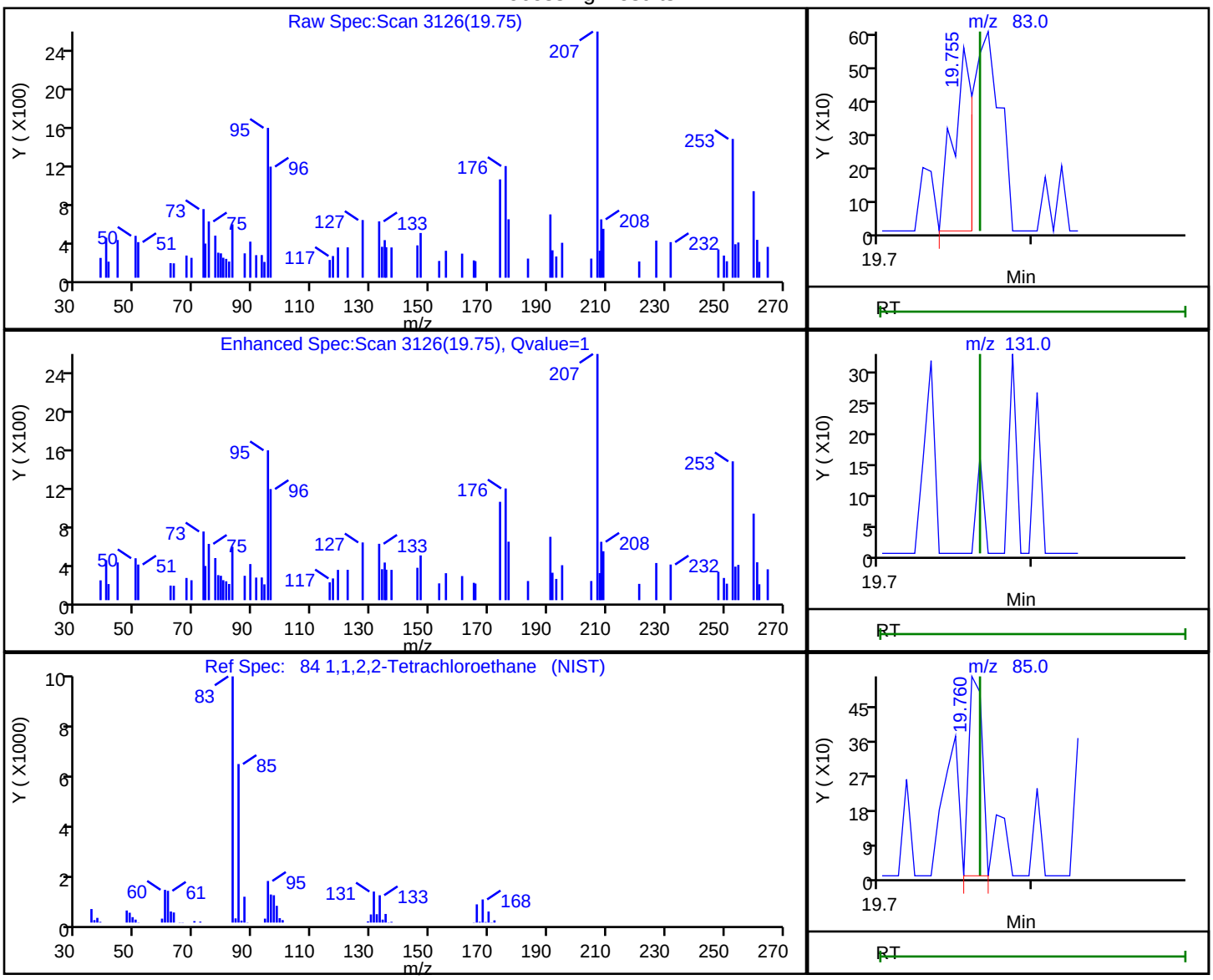
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.75 | 83.00 | 486 | 0.003872 |
| 19.76 | 85.00 | 325 | |
| 19.76 | 131.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

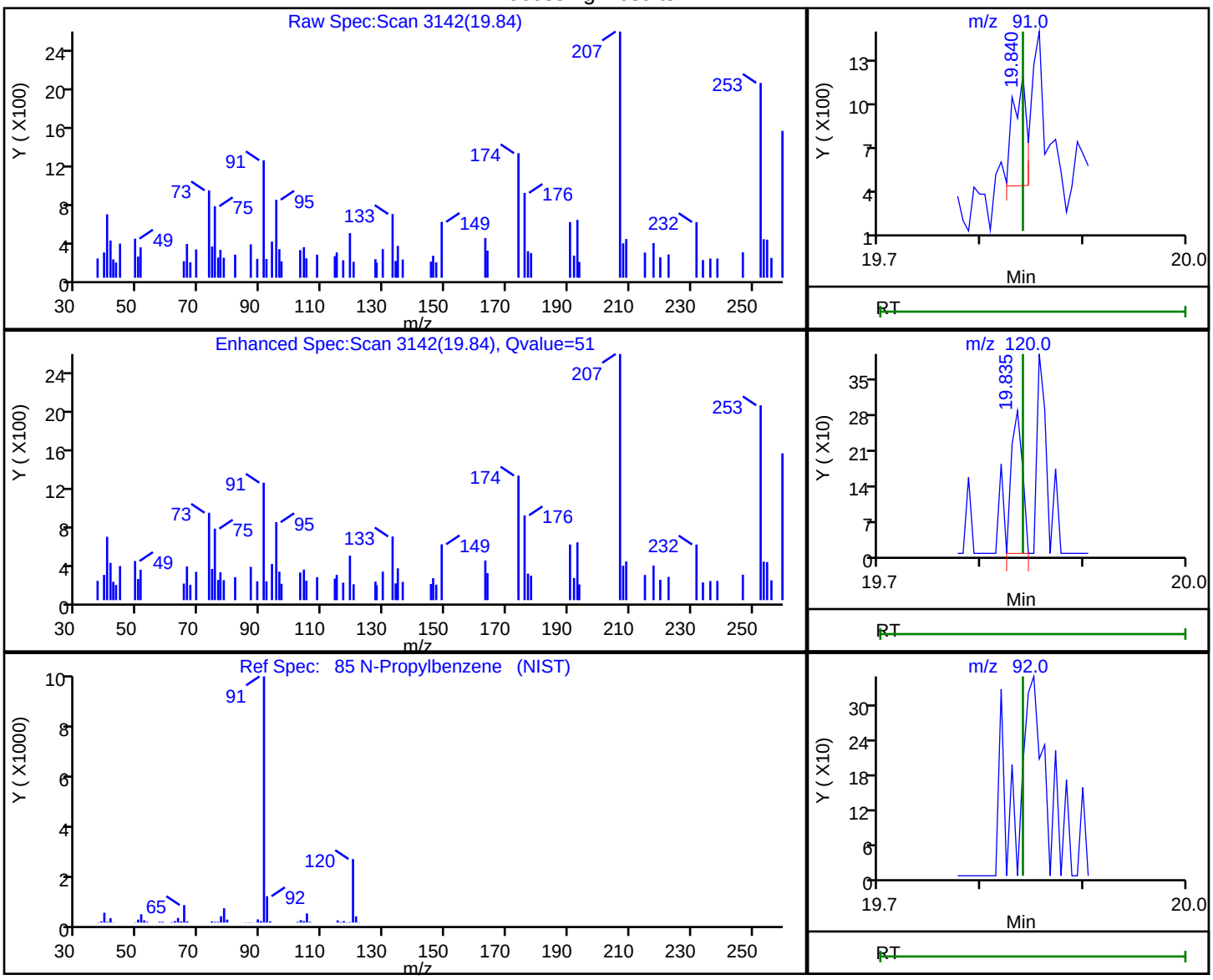
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.84 | 91.00 | 670 | 0.002446 |
| 19.83 | 120.00 | 211 | |
| 19.85 | 92.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

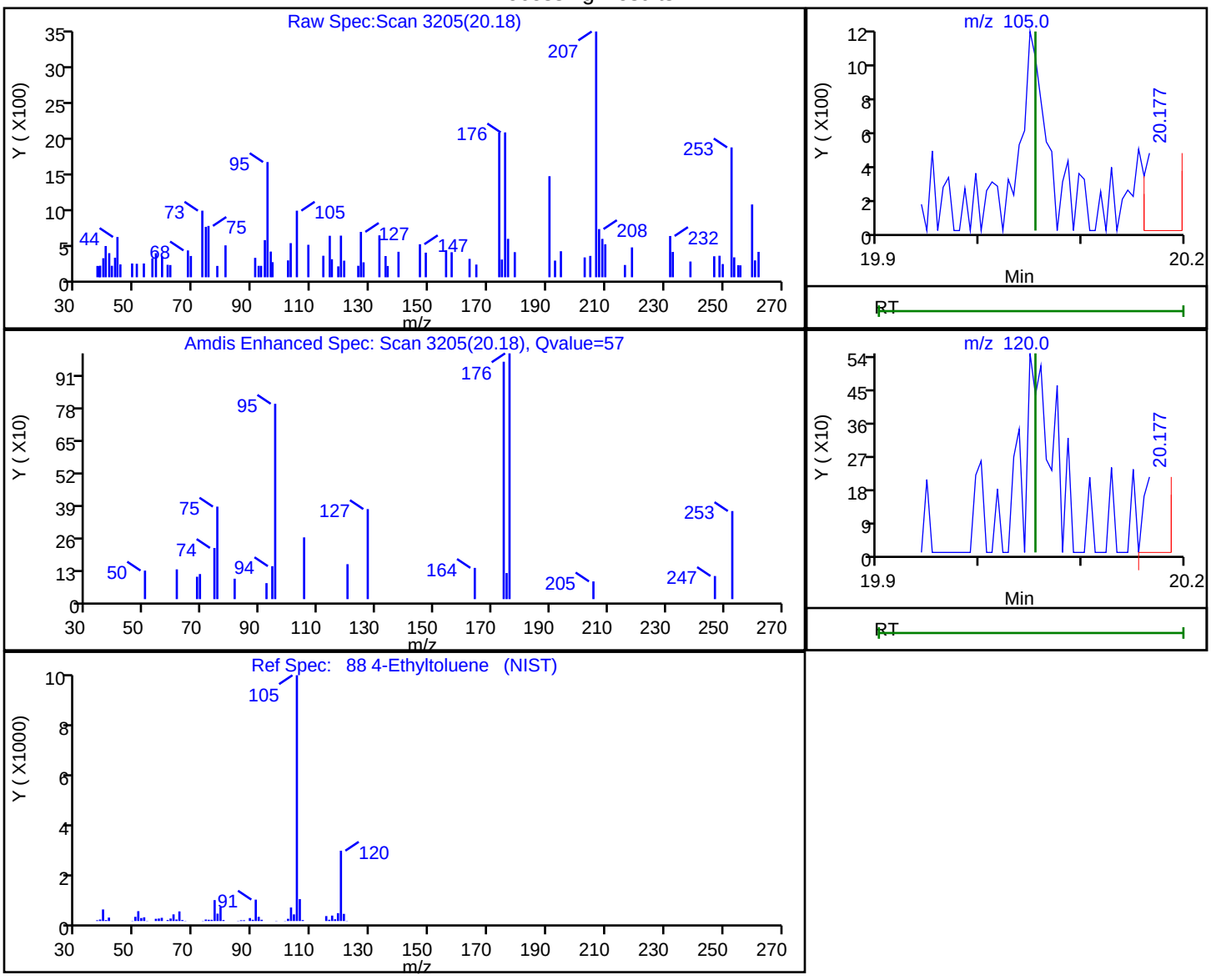
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 88 4-Ethyltoluene, CAS: 622-96-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.18 | 105.00 | 1112 | 0.004768 |
| 20.18 | 120.00 | 525 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

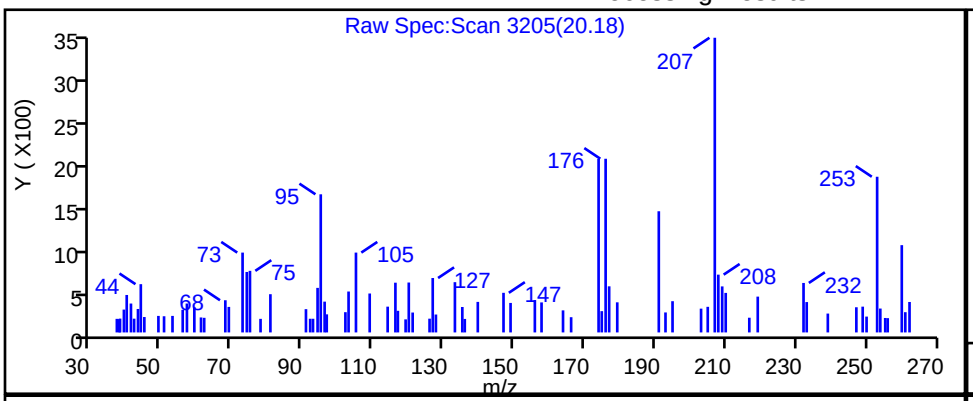
User Disabled Compound Report

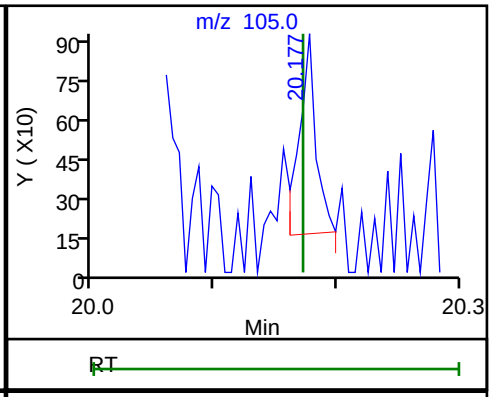
TestAmerica Burlington

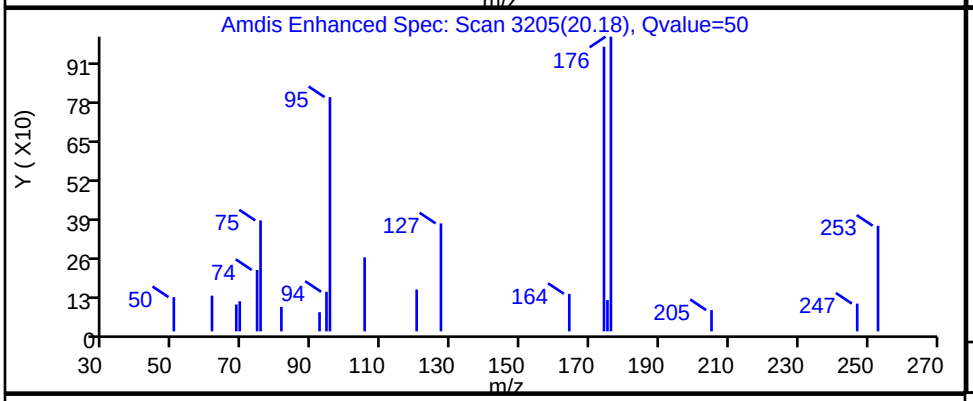
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

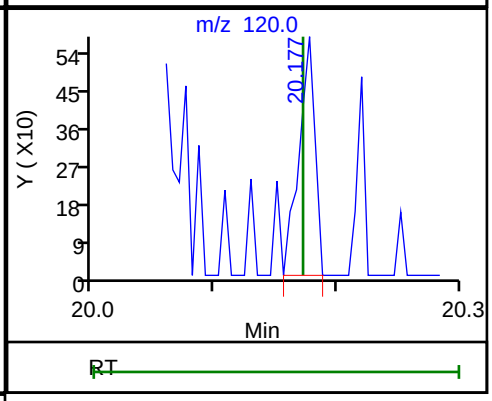
## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

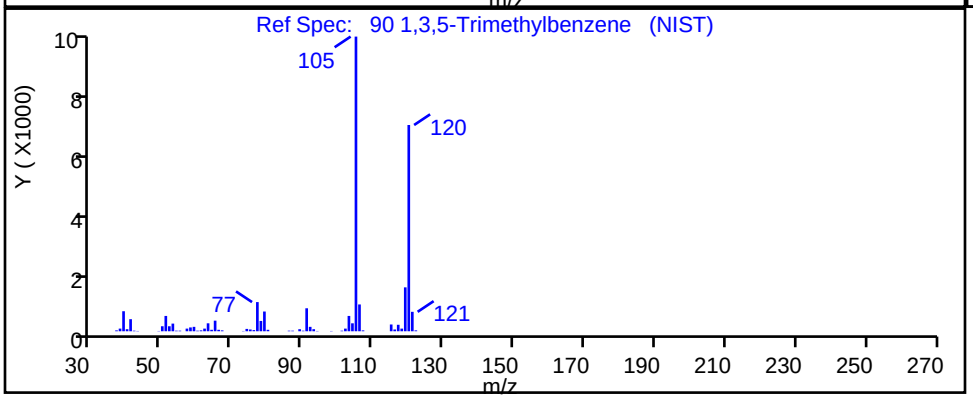
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.18 | 105.00 | 725 | 0.003634 |
| 20.18 | 120.00 | 525 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

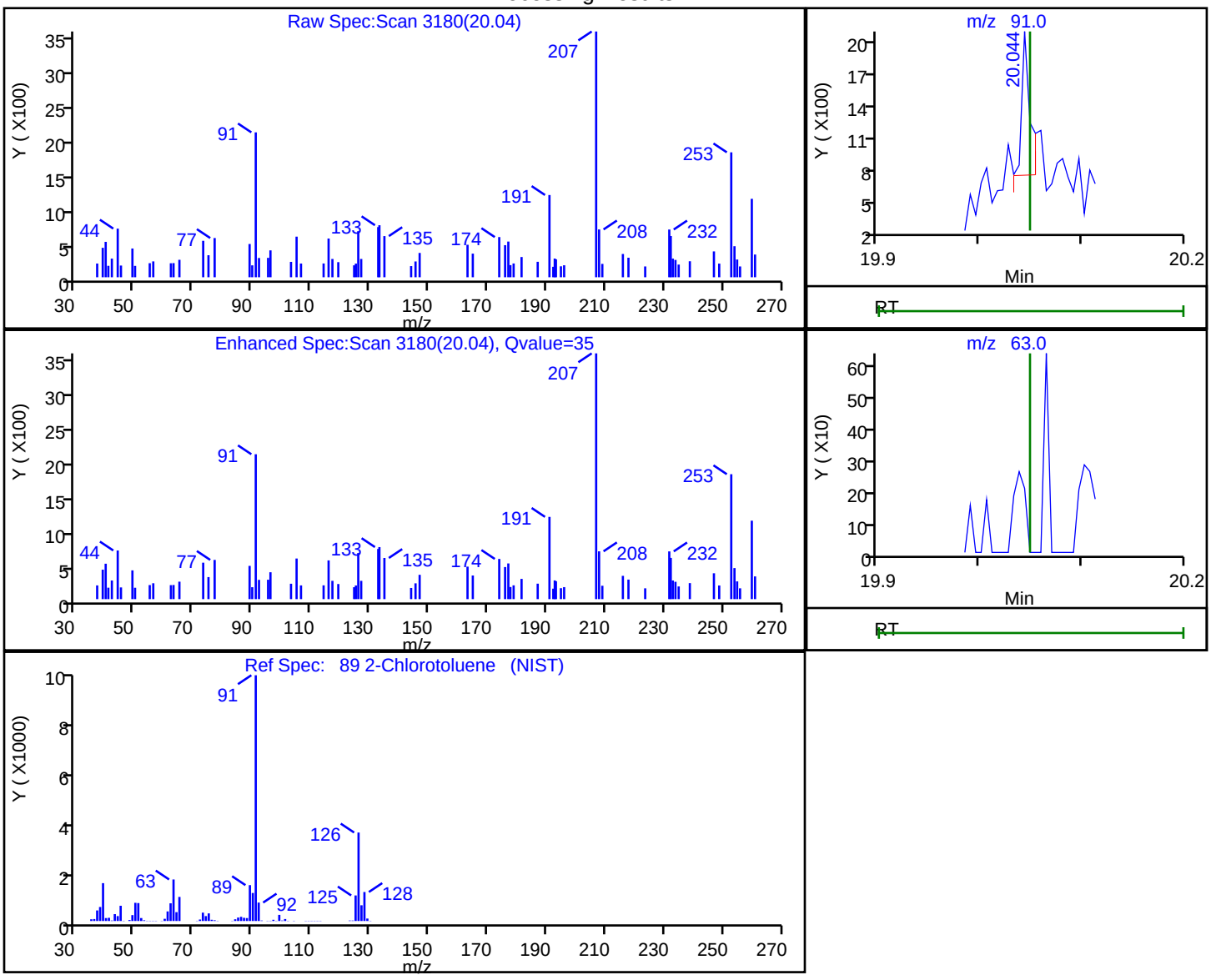
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.04 | 91.00 | 757 | 0.003659 |
| 20.04 | 63.00 | 0 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 07-Dec-2018 15:53:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

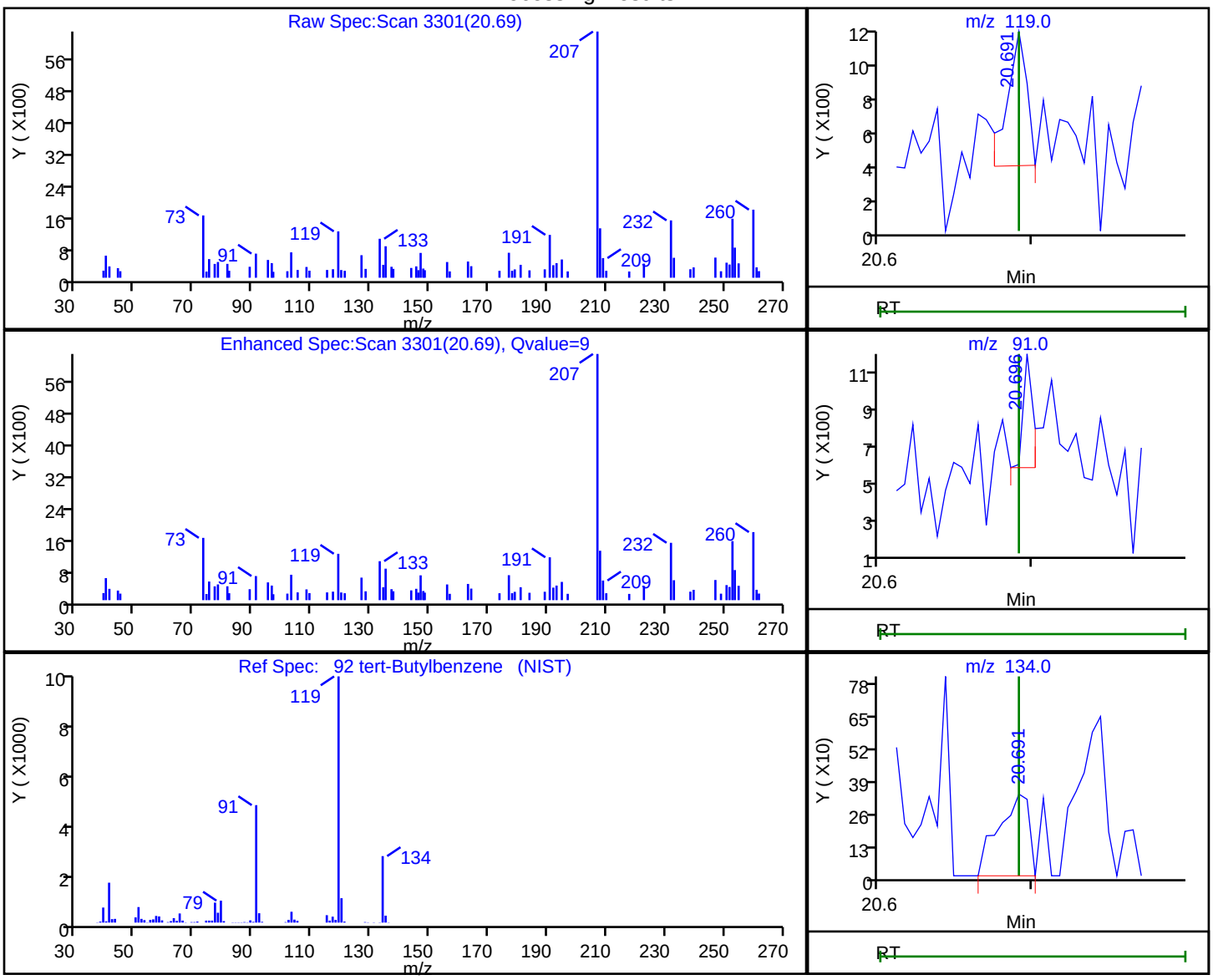
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.69 | 119.00 | 704 | 0.003772 |
| 20.70 | 91.00 | 258 | |
| 20.69 | 134.00 | 455 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

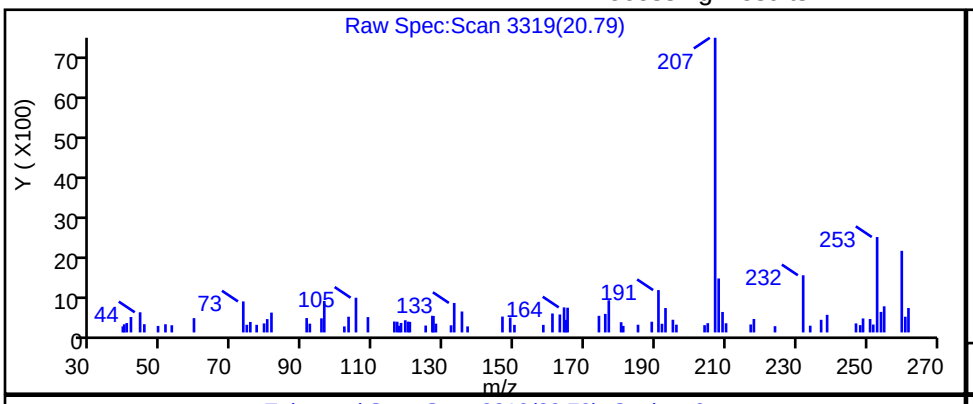
User Disabled Compound Report

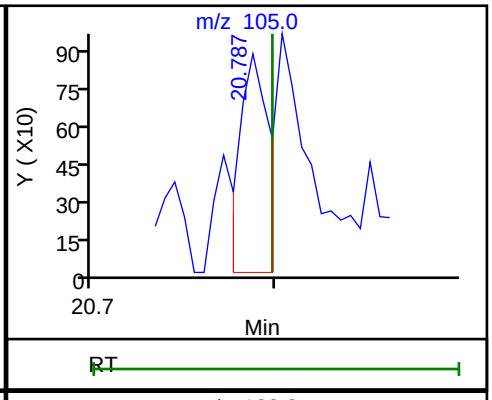
TestAmerica Burlington

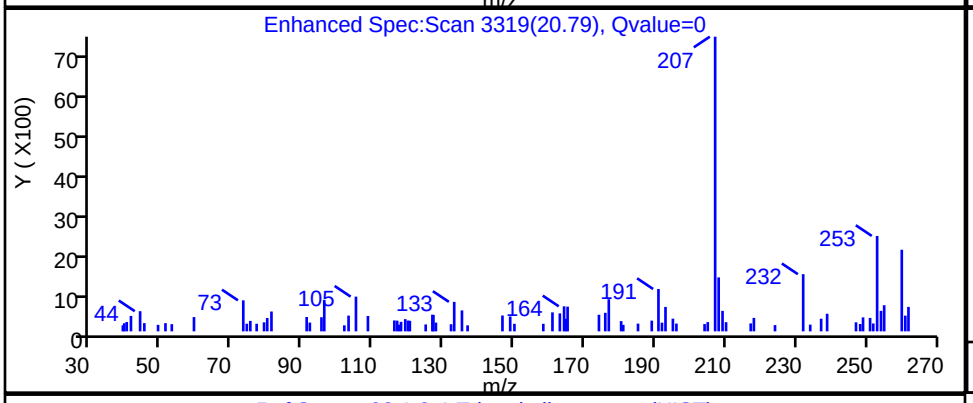
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

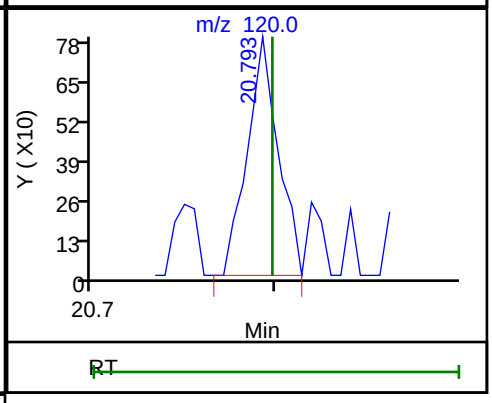
## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

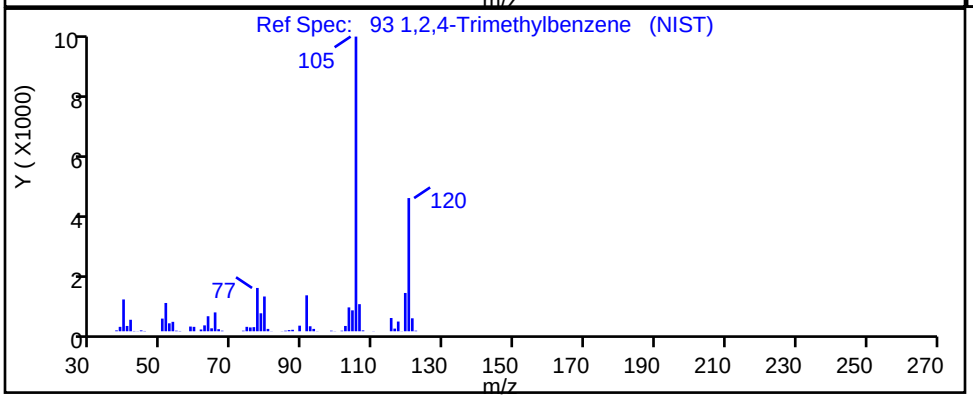
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.79 | 105.00 | 1004 | 0.005100 |
| 20.79 | 120.00 | 932 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

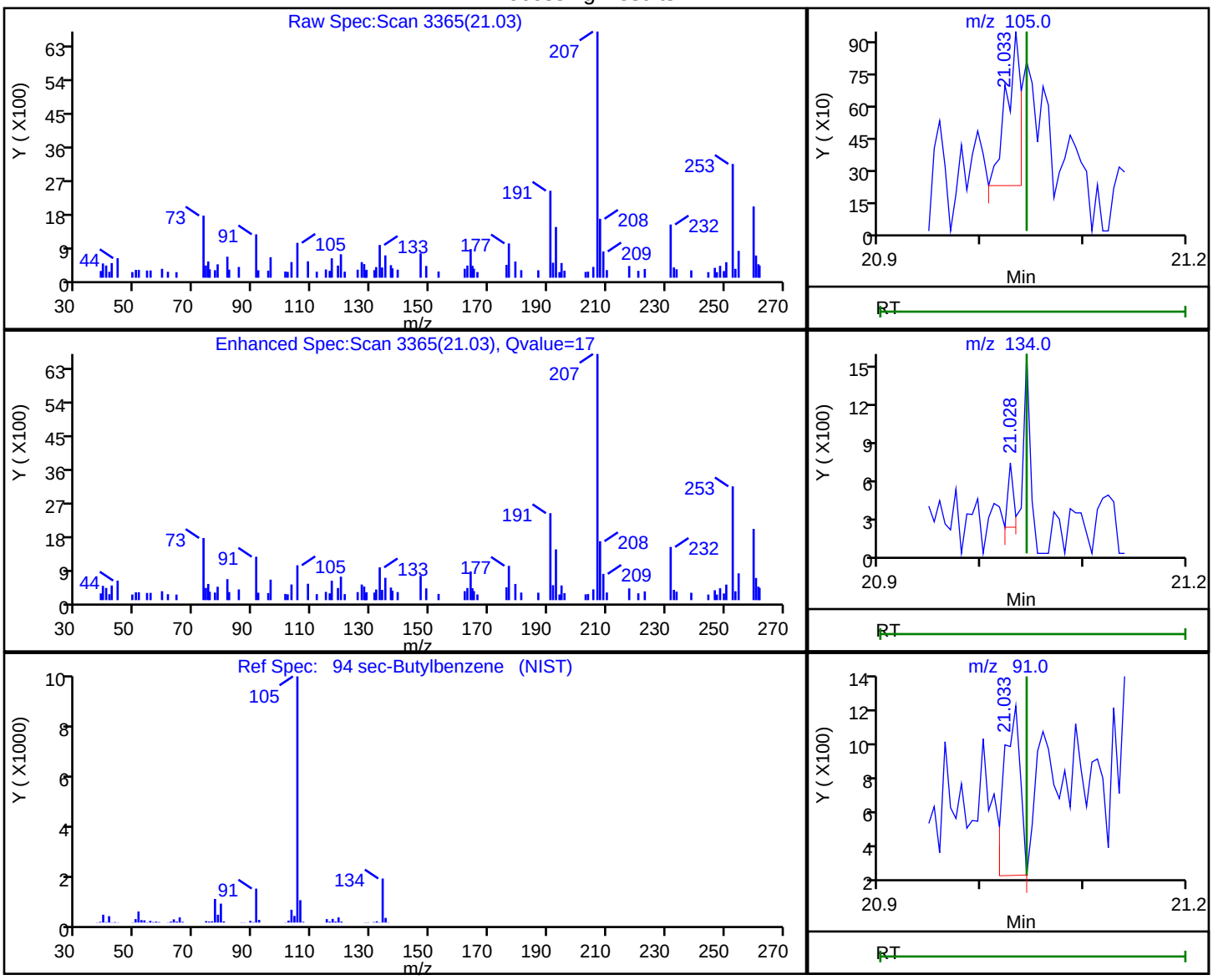
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.03 | 105.00 | 715 | 0.002584 |
| 21.03 | 134.00 | 181 | |
| 21.03 | 91.00 | 995 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

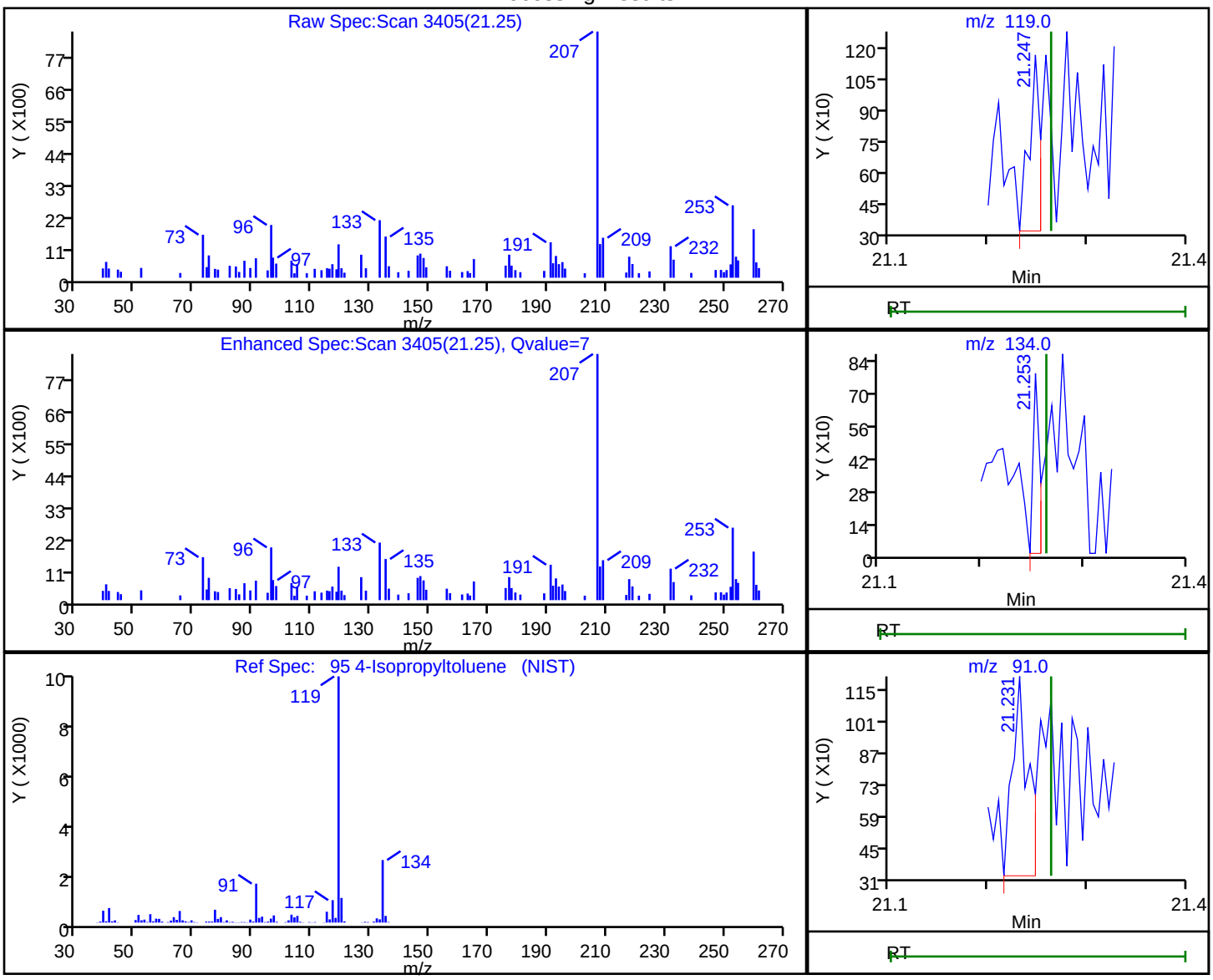
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.25 | 119.00 | 653 | 0.002753 |
| 21.25 | 134.00 | 347 | |
| 21.23 | 91.00 | 992 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

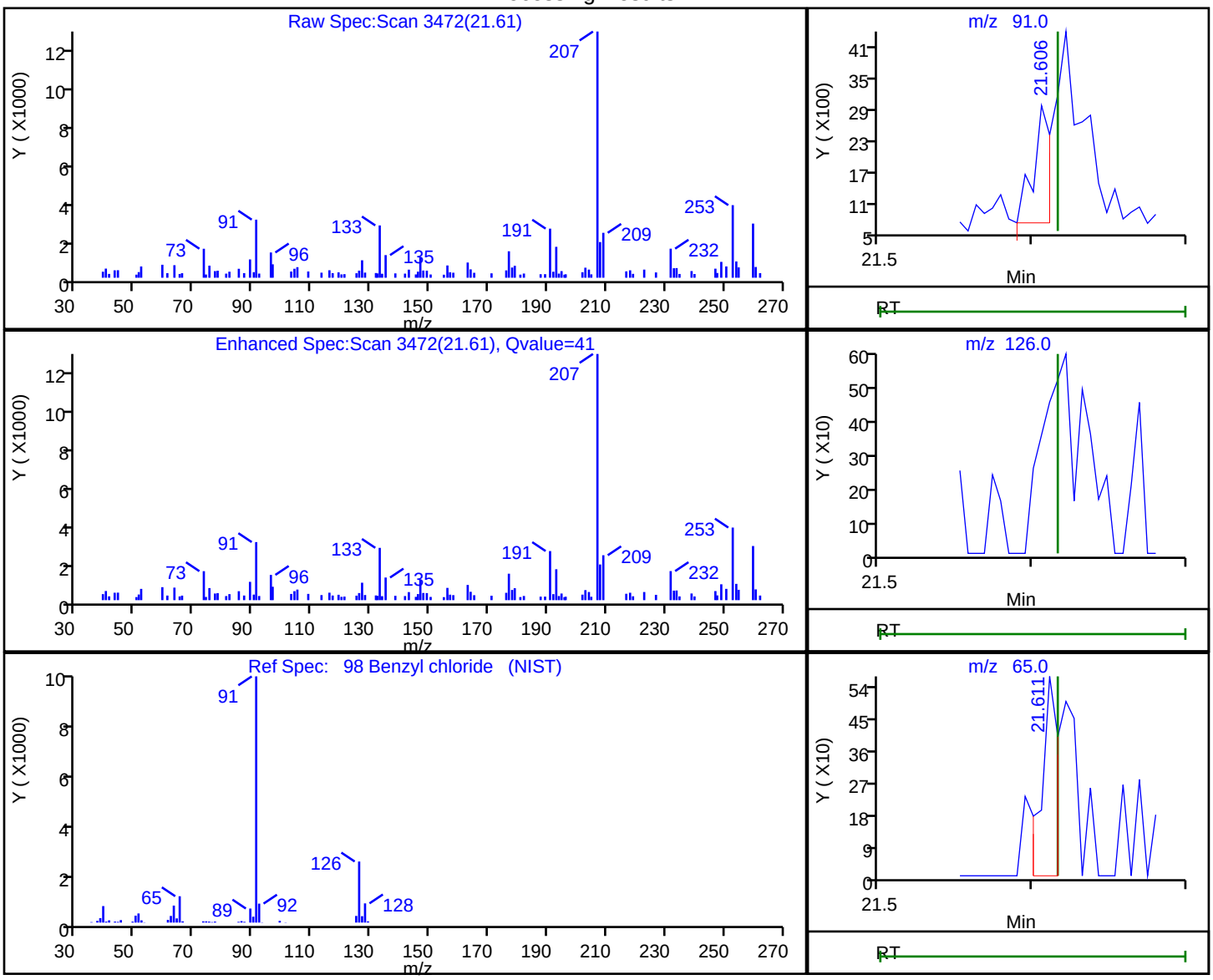
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.61 | 91.00 | 1740 | 0.009240 |
| 21.62 | 126.00 | 0 | |
| 21.61 | 65.00 | 422 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

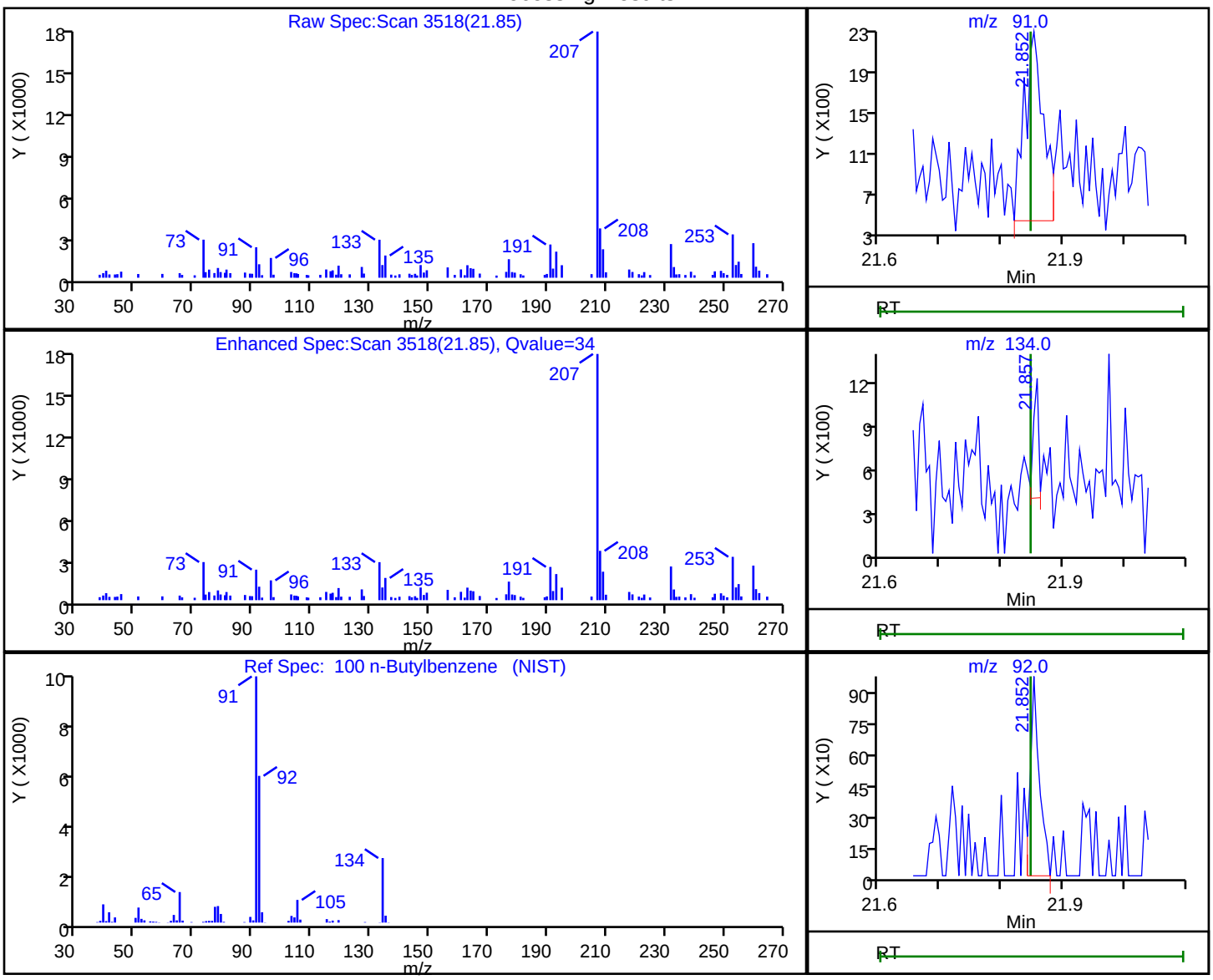
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.85 | 91.00 | 3768 | 0.017425 |
| 21.86 | 134.00 | 469 | |
| 21.85 | 92.00 | 1005 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

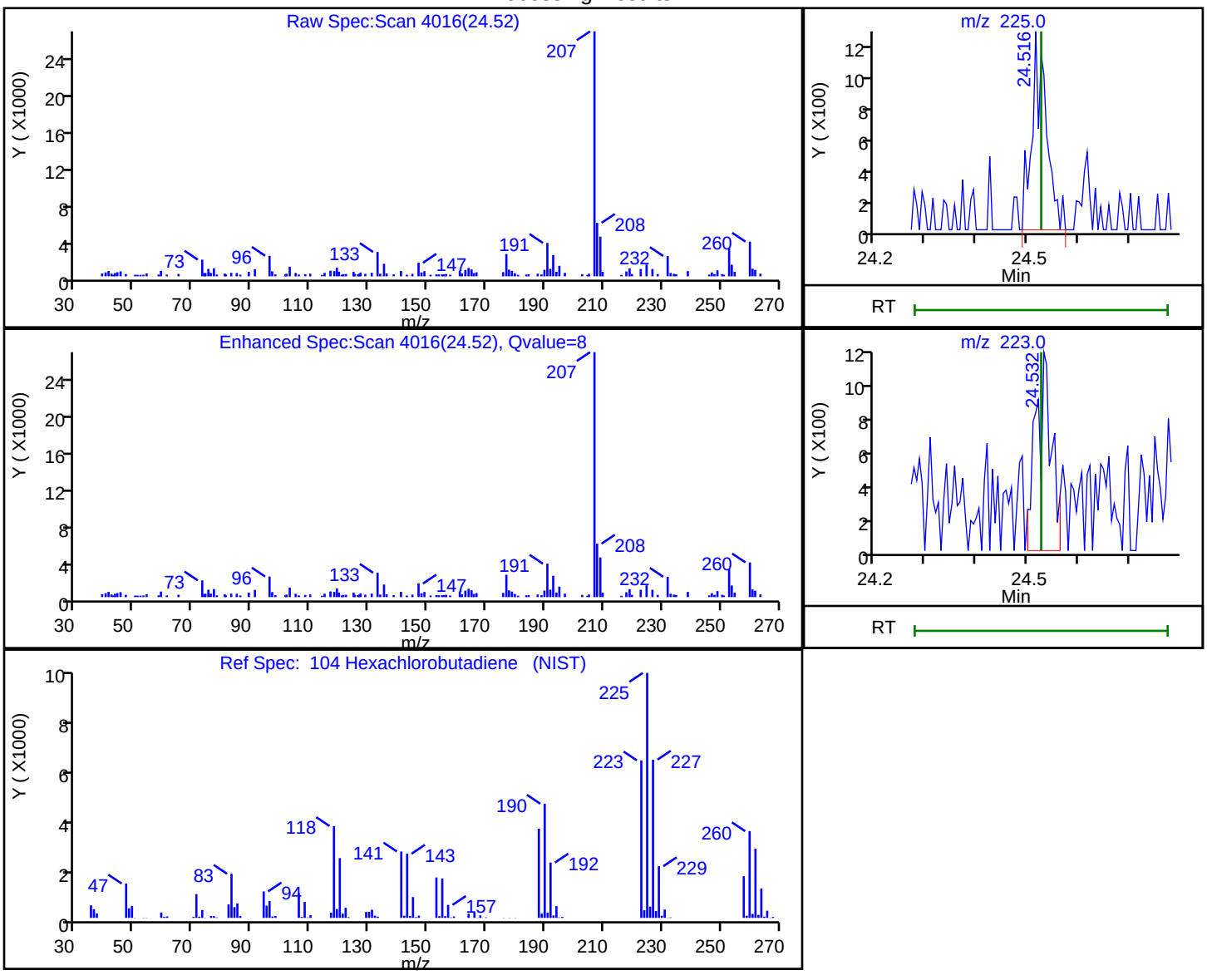
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D | | | | |
| Injection Date: | 06-Dec-2018 17:33:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ert | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.52 | 225.00 | 2583 | 0.023562 |
| 24.53 | 223.00 | 2491 | |

Reviewer: puangmaleek, 07-Dec-2018 15:52:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137900/6

Matrix: Air | Lab File ID: 33574-05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 15:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.50 | U | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.50 | U | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 0.50 | U | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.20 | U | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 5.0 | U | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.20 | U | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.50 | U | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.20 | U | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.035 | U | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.20 | U | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137900/6

Matrix: Air  Lab File ID: 33574-05.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 15:52

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137900  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.20 | U | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137900/6

Matrix: Air  Lab File ID: 33574-05.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 15:52

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137900  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137900/6

Matrix: Air | Lab File ID: 33574-05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 15:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | U | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.0 | U | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 1.2 | U | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.1 | U | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 12 | U | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 0.70 | U | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.5 | U | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.69 | U | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.22 | U | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.64 | U | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: MB 200-137900/6

Matrix: Air | Lab File ID: 33574-05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 15:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 0.75 | U | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: MB 200-137900/6

Matrix: Air  Lab File ID: 33574-05.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 15:52

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137900  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-05.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 07-Dec-2018 15:52:30 ALS Bottle#: 9 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033574-005
Misc. Info.: mb
Operator ID: ggg Instrument ID: CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: phamvu Date: 10-Dec-2018 17:25:23

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 2.962 | | | | | ND | |
| 2 Dichlorodifluoromethane | 85 | | 3.031 | | | | | ND | |
| 3 Chlorodifluoromethane | 51 | | 3.079 | | | | | ND | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.287 | | | | | ND | |
| 5 Chloromethane | 50 | | 3.416 | | | | | ND | |
| 6 Butane | 43 | | 3.618 | | | | | ND | |
| 7 Vinyl chloride | 62 | | 3.656 | | | | | ND | |
| 8 Butadiene | 54 | | 3.730 | | | | | ND | |
| 10 Bromomethane | 94 | | 4.398 | | | | | ND | |
| 11 Chloroethane | 64 | | 4.632 | | | | | ND | |
| 12 2-Methylbutane | 43 | | 4.718 | | | | | ND | |
| 13 Vinyl bromide | 106 | | 5.022 | | | | | ND | |
| 14 Trichlorofluoromethane | 101 | | 5.134 | | | | | ND | |
| 16 Pentane | 43 | | 5.283 | | | | | ND | |
| 17 Ethanol | 45 | | 5.710 | | | | | ND | |
| 18 Ethyl ether | 59 | | 5.796 | | | | | ND | |
| 19 Acrolein | 56 | | 6.159 | | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 6.223 | | | | | ND | |
| 21 1,1-Dichloroethene | 96 | | 6.244 | | | | | ND | |
| 22 Acetone | 43 | | 6.468 | | | | | ND | |
| 23 Carbon disulfide | 76 | | 6.628 | | | | | ND | |
| 24 Isopropyl alcohol | 45 | | 6.788 | | | | | ND | |
| 25 3-Chloro-1-propene | 41 | | 7.039 | | | | | ND | |
| 26 Acetonitrile | 41 | | 7.135 | | | | | ND | |
| 27 Methylene Chloride | 49 | | 7.333 | | | | | ND | |
| 28 2-Methyl-2-propanol | 59 | | 7.568 | | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 7.749 | | | | | ND | |
| 31 trans-1,2-Dichloroethene | 61 | | 7.781 | | | | | ND | |
| 32 Acrylonitrile | 53 | | 7.904 | | | | | ND | |
| 33 Hexane | 57 | | 8.192 | | | | | ND | |
| 34 1,1-Dichloroethane | 63 | | 8.646 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | | 8.736 | | | | ND | | |
| 37 cis-1,2-Dichloroethene | 96 | | 9.766 | | | | ND | | |
| 38 2-Butanone (MEK) | 72 | | 9.804 | | | | ND | | |
| 39 Ethyl acetate | 88 | | 9.863 | | | | ND | | |
| S 30 1,2-Dichloroethene, Total | 61 | | 10.200 | | | | ND | | |
| * 40 Chlorobromomethane | 128 | 10.226 | 10.225 | 0.001 | 79 | 171771 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 10.231 | | | | ND | | |
| 42 Chloroform | 83 | | 10.370 | | | | ND | | |
| 43 Cyclohexane | 84 | | 10.620 | | | | ND | | |
| 44 1,1,1-Trichloroethane | 97 | | 10.642 | | | | ND | | |
| 45 Carbon tetrachloride | 117 | | 10.898 | | | | ND | | |
| 46 Isooctane | 57 | | 11.346 | | | | ND | | |
| 47 Benzene | 78 | | 11.346 | | | | ND | | |
| 48 1,2-Dichloroethane | 62 | | 11.528 | | | | ND | | |
| 49 n-Heptane | 43 | | 11.752 | | | | ND | | |
| * 50 1,4-Difluorobenzene | 114 | 12.206 | 12.205 | 0.001 | 95 | 963517 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | | 12.616 | | | | ND | | |
| 53 Trichloroethene | 95 | | 12.675 | | | | ND | | |
| A 51 GRO | 1 | 12.966 | (4.708-21.224) | | 0 | 4281592 | | 0 | |
| 54 1,2-Dichloropropane | 63 | | 13.219 | | | | ND | | |
| 55 Methyl methacrylate | 69 | | 13.417 | | | | ND | | |
| 56 1,4-Dioxane | 88 | | 13.449 | | | | ND | | |
| 57 Dibromomethane | 174 | | 13.481 | | | | ND | | |
| 58 Dichlorobromomethane | 83 | | 13.796 | | | | ND | | |
| A 59 TVOC as Toluene | 1 | 14.650 | (2.952-26.348) | | 0 | 4466177 | | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | | 14.746 | | | | ND | | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 15.023 | | | | ND | | |
| 65 Toluene | 92 | | 15.338 | | | | ND | | |
| 64 n-Octane | 43 | | 15.440 | | | | ND | | |
| 66 trans-1,3-Dichloropropene | 75 | | 15.941 | | | | ND | | |
| 67 1,1,2-Trichloroethane | 83 | | 16.315 | | | | ND | | |
| 68 Tetrachloroethene | 166 | | 16.438 | | | | ND | | |
| 69 2-Hexanone | 43 | | 16.763 | | | | ND | | |
| 71 Chlorodibromomethane | 129 | | 17.078 | | | | ND | | |
| 72 Ethylene Dibromide | 107 | | 17.334 | | | | ND | | |
| * 74 Chlorobenzene-d5 | 117 | 18.242 | 18.241 | 0.001 | 89 | 1183871 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | | 18.300 | | | | ND | | |
| 76 Ethylbenzene | 91 | | 18.460 | | | | ND | | U |
| 77 n-Nonane | 57 | | 18.626 | | | | ND | | |
| 78 m-Xylene & p-Xylene | 106 | | 18.711 | | | | ND | | |
| 79 o-Xylene | 106 | | 19.549 | | | | ND | | |
| 80 Styrene | 104 | | 19.602 | | | | ND | | |
| 81 Bromoform | 173 | | 20.035 | | | | ND | | |
| S 73 Xylenes, Total | 106 | | 20.100 | | | | ND | | |
| 82 Isopropylbenzene | 105 | | 20.259 | | | | ND | | |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 20.926 | | | | ND | | |
| 85 N-Propylbenzene | 91 | | 21.006 | | | | ND | | |
| 86 1,2,3-Trichloropropane | 75 | | 21.022 | | | | ND | | |
| 88 4-Ethyltoluene | 105 | | 21.198 | | | | ND | | |
| 89 2-Chlorotoluene | 91 | | 21.203 | | | | ND | | |
| 87 n-Decane | 57 | | 21.214 | | | | ND | | |
| 90 1,3,5-Trimethylbenzene | 105 | | 21.310 | | | | ND | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | | 21.684 | | | | | ND | |
| 92 tert-Butylbenzene | 119 | | 21.807 | | | | | ND | |
| 93 1,2,4-Trimethylbenzene | 105 | | 21.903 | | | | | ND | |
| 94 sec-Butylbenzene | 105 | | 22.137 | | | | | ND | |
| 95 4-Isopropyltoluene | 119 | | 22.346 | | | | | ND | |
| 96 1,3-Dichlorobenzene | 146 | | 22.372 | | | | | ND | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 1 | 763 | | 0.0144 | |
| 98 Benzyl chloride | 91 | 22.703 | 22.698 | 0.005 | 1 | 665 | | 0.009207 | |
| 100 n-Butylbenzene | 91 | | 22.911 | | | | | ND | |
| 99 Undecane | 57 | | 22.954 | | | | | ND | |
| 101 1,2-Dichlorobenzene | 146 | | 23.029 | | | | | ND | |
| 102 Dodecane | 57 | | 24.486 | | | | | ND | |
| 103 1,2,4-Trichlorobenzene | 180 | | 25.436 | | | | | ND | |
| 104 Hexachlorobutadiene | 225 | | 25.628 | | | | | ND | |
| 105 Naphthalene | 128 | | 25.884 | | | | | ND | |
| 106 1,2,3-Trichlorobenzene | 180 | | 26.338 | | | | | ND | |
| 120 Freon 115 TIC | 1 | | 0.000 | | | | | ND | |
| 119 Difluoroethane TIC | 1 | | 0.000 | | | | | ND | |
| 122 Total Alkanes TIC | 1 | | 0.000 | | | | | ND | |
| 121 1,1,1-Trifluoro-2,2-dichlo | 1 | | 0.000 | | | | | ND | |
| 118 Chlorotrifluoroethene TIC | 1 | | 0.000 | | | | | ND | |

## QC Flag Legend

Review Flags

U - Marked Undetected

## Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

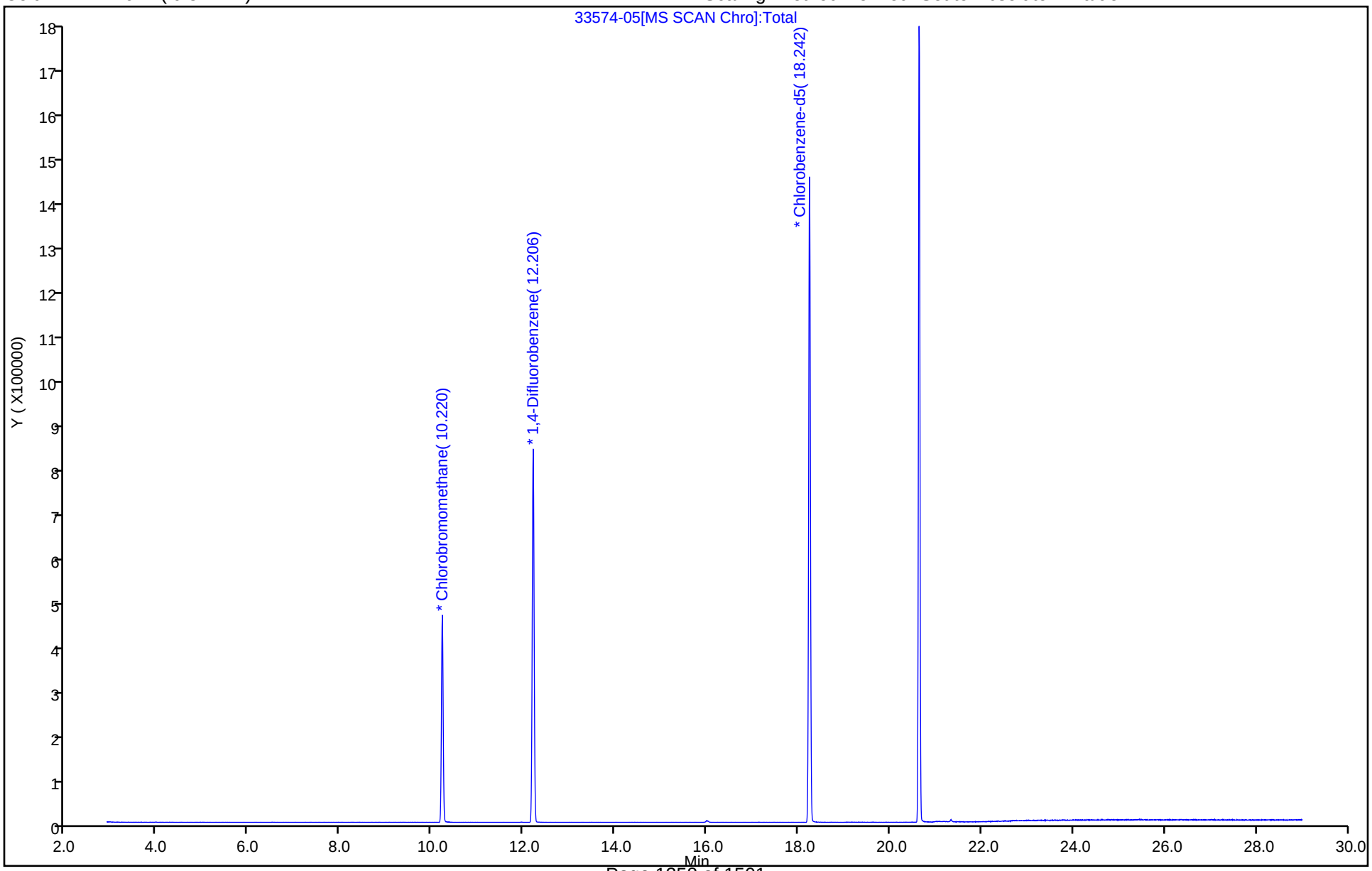
Report Date: 10-Dec-2018 17:27:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-05.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 15:52:30 | Instrument ID: | CHC.i | Operator ID: | ggg |
| Lims ID: | mb | | | Worklist Smp#: | 6 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 9 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



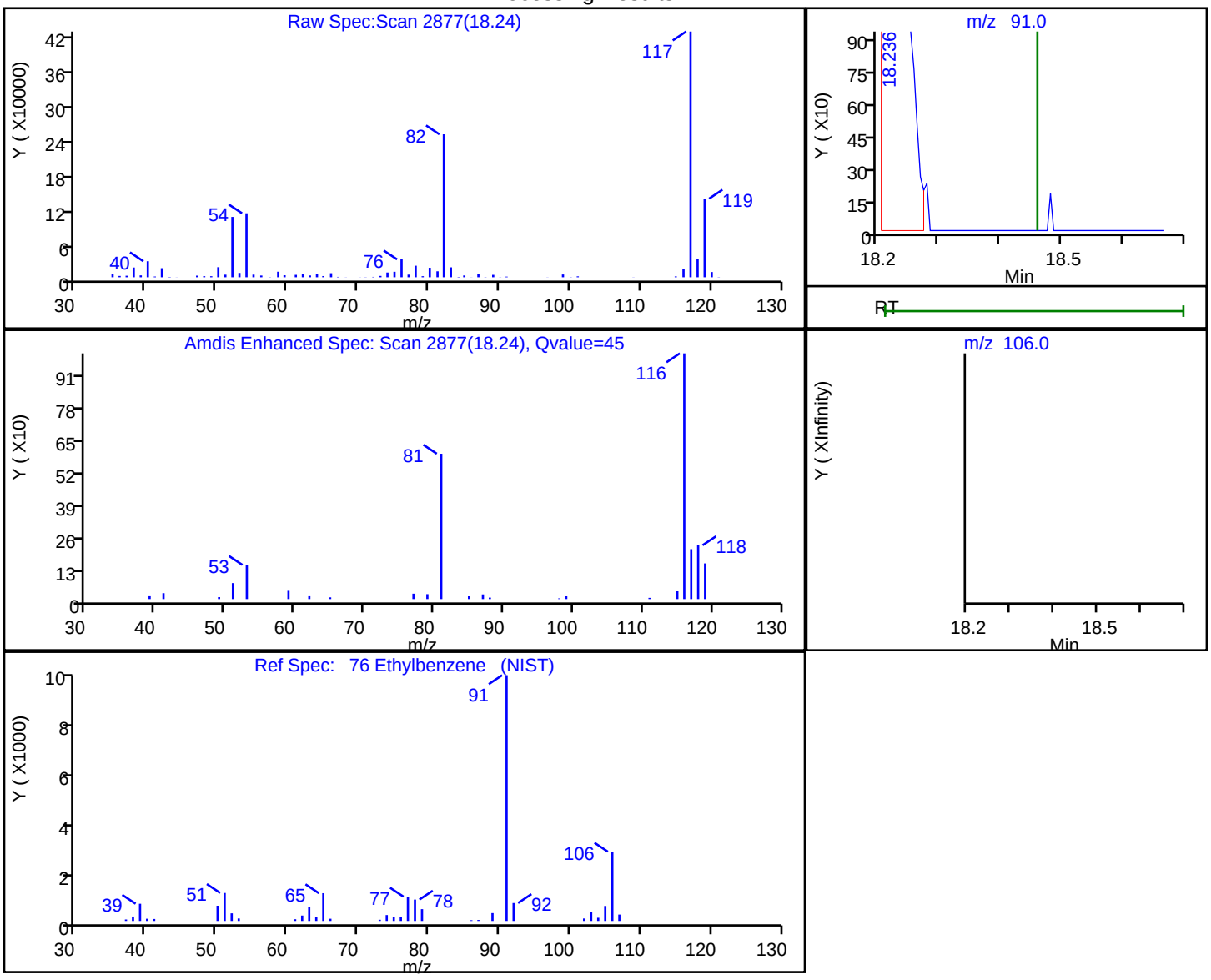
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-05.D | | | | |
| Injection Date: | 07-Dec-2018 15:52:30 | Instrument ID: | CHC.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | ggg | ALS Bottle#: | 9 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 76 Ethylbenzene, CAS: 100-41-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.24 | 91.00 | 2714 | 0.035817 |
| 18.46 | 106.00 | 0 | |

Reviewer: phamvu, 10-Dec-2018 17:25:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: LCS 200-137819/6

Matrix: Air | Lab File ID: 200-33531-006.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 44(mL) | Date Analyzed: 12/05/2018 18:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 11.4 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 11.0 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 11.1 | | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 10.5 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 10.3 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 10.1 | | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 10.3 | | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 10.7 | | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 10.8 | | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 10.7 | | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 10.8 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 11.1 | | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 10.6 | | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 11.9 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 10.3 | | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 10.7 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 10.9 | | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 10.9 | | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 10.2 | | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 11.5 | | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 10.8 | | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 11.0 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 10.7 | | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 10.7 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 11.8 | | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 11.2 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 9.40 | | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 9.75 | | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 9.31 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 10.1 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 9.45 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 10.6 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 10.3 | | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: LCS 200-137819/6

Matrix: Air | Lab File ID: 200-33531-006.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 44(mL) | Date Analyzed: 12/05/2018 18:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 9.99 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 9.29 | | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 9.83 | | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 11.2 | | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 9.74 | | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 10.5 | | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 11.1 | | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 8.95 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 12.3 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 10.6 | | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 11.5 | | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 11.5 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 9.34 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 12.2 | | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 12.4 | | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 12.1 | | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 11.4 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 22.7 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 11.6 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 11.5 | | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 12.8 | | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 11.5 | | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 10.2 | | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 10.8 | | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 11.0 | | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 11.0 | | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 11.0 | | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 11.1 | | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 10.9 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 11.1 | | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 11.1 | | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 11.0 | | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 11.3 | | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: LCS 200-137819/6

Matrix: Air  Lab File ID: 200-33531-006.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 44(mL)  Date Analyzed: 12/05/2018 18:19

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 10.1 | | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 10.7 | | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 10.9 | | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 8.14 | | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 8.93 | | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 7.46 | | 0.50 | |

Report Date: 06-Dec-2018 13:09:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-006.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 05-Dec-2018 18:19:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033531-006
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Dec-2018 13:09:01 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: bunmaa Date: 06-Dec-2018 13:09:57

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.096 | 3.096 | 0.000 | 97 | 548810 | 10.0 | 11.4 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.155 | -0.011 | 99 | 2975641 | 10.0 | 11.4 | |
| 3 Chlorodifluoromethane | 51 | 3.181 | 3.181 | 0.000 | 96 | 1223739 | 10.0 | 11.0 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.353 | -0.011 | 90 | 2168354 | 10.0 | 11.1 | |
| 5 Chloromethane | 50 | 3.454 | 3.465 | -0.011 | 99 | 530249 | 10.0 | 10.5 | |
| 6 Butane | 43 | 3.604 | 3.604 | 0.000 | 96 | 704390 | 10.0 | 10.3 | |
| 7 Vinyl chloride | 62 | 3.636 | 3.647 | -0.011 | 98 | 613421 | 10.0 | 10.1 | |
| 8 Butadiene | 54 | 3.695 | 3.711 | -0.016 | 94 | 392510 | 10.0 | 10.3 | |
| 10 Bromomethane | 94 | 4.209 | 4.208 | 0.001 | 98 | 754179 | 10.0 | 10.7 | |
| 11 Chloroethane | 64 | 4.380 | 4.380 | 0.000 | 99 | 252302 | 10.0 | 10.8 | |
| 12 2-Methylbutane | 43 | 4.439 | 4.441 | -0.005 | 88 | 479405 | 10.0 | 10.7 | |
| 13 Vinyl bromide | 106 | 4.685 | 4.695 | -0.010 | 99 | 743200 | 10.0 | 10.7 | |
| 14 Trichlorofluoromethane | 101 | 4.760 | 4.760 | 0.000 | 98 | 2222335 | 10.0 | 10.8 | |
| 16 Pentane | 43 | 4.867 | 4.863 | 0.001 | 98 | 713522 | 10.0 | 10.5 | |
| 17 Ethanol | 45 | 5.204 | 5.241 | -0.042 | 96 | 273438 | 15.0 | 19.4 | |
| 18 Ethyl ether | 59 | 5.278 | 5.327 | -0.049 | 96 | 287496 | 10.0 | 12.0 | |
| 19 Acrolein | 56 | 5.594 | 5.591 | 0.000 | 96 | 111341 | 10.0 | 12.2 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 97 | 1608742 | 10.0 | 11.1 | |
| 21 1,1-Dichloroethene | 96 | 5.664 | 5.658 | 0.006 | 96 | 679041 | 10.0 | 10.6 | |
| 9 BFB | | | | | | | | | |
| 22 Acetone | 43 | 5.856 | 5.856 | 0.000 | 99 | 647908 | 10.0 | 11.9 | |
| 23 Carbon disulfide | 76 | 6.017 | 6.011 | 0.000 | 99 | 1759133 | 10.0 | 10.7 | |
| 24 Isopropyl alcohol | 45 | 6.097 | 6.097 | 0.000 | 100 | 619108 | 10.0 | 10.3 | |
| 25 3-Chloro-1-propene | 41 | 6.306 | 6.305 | 0.001 | 95 | 514971 | 10.0 | 10.9 | |
| 26 Acetonitrile | 41 | 6.418 | 6.418 | 0.000 | 97 | 192726 | 10.0 | 9.70 | |
| 27 Methylene Chloride | 49 | 6.552 | 6.557 | -0.005 | 88 | 625400 | 10.0 | 10.9 | |
| 28 2-Methyl-2-propanol | 59 | 6.771 | 6.767 | 0.000 | 93 | 933848 | 10.0 | 10.2 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.948 | 6.948 | 0.000 | 95 | 834062 | 10.0 | 10.8 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.980 | -0.043 | 95 | 1428164 | 10.0 | 11.5 | |
| 32 Acrylonitrile | 53 | 7.071 | 7.070 | 0.001 | 91 | 248026 | 10.0 | 11.4 | |
| 33 Hexane | 57 | 7.290 | 7.285 | 0.011 | 90 | 679799 | 10.0 | 11.0 | |
| 34 1,1-Dichloroethane | 63 | 7.723 | 7.729 | -0.006 | 99 | 1062520 | 10.0 | 10.7 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.787 | 7.783 | 0.000 | 100 | 942596 | 10.0 | 12.5 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.729 | 8.724 | 0.005 | 90 | 711000 | 10.0 | 11.8 | |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.793 | -0.005 | 100 | 208582 | 10.0 | 10.7 | |
| 39 Ethyl acetate | 88 | 8.825 | 8.825 | -0.005 | 99 | 33405 | 10.0 | 12.0 | |
| * 40 Chlorobromomethane | 128 | 9.157 | 9.152 | 0.005 | 74 | 697703 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.205 | 9.210 | -0.005 | 84 | 375121 | 10.0 | 9.40 | |
| 42 Chloroform | 83 | 9.269 | 9.264 | 0.000 | 95 | 1629107 | 10.0 | 11.2 | |
| 43 Cyclohexane | 84 | 9.526 | 9.527 | -0.005 | 94 | 747520 | 10.0 | 9.31 | |
| 44 1,1,1-Trichloroethane | 97 | 9.542 | 9.542 | 0.000 | 93 | 1895725 | 10.0 | 9.75 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 22.6 | |
| 45 Carbon tetrachloride | 117 | 9.783 | 9.778 | 0.000 | 98 | 2098349 | 10.0 | 10.1 | |
| 46 Isooctane | 57 | 10.195 | 10.190 | 0.000 | 97 | 2509399 | 10.0 | 9.45 | |
| 47 Benzene | 78 | 10.222 | 10.216 | 0.006 | 95 | 1967113 | 10.0 | 10.6 | |
| 48 1,2-Dichloroethane | 62 | 10.382 | 10.377 | 0.000 | 99 | 1106067 | 10.0 | 10.3 | |
| 49 n-Heptane | 43 | 10.569 | 10.575 | -0.006 | 89 | 957808 | 10.0 | 10.0 | |
| * 50 1,4-Difluorobenzene | 114 | 11.024 | 11.019 | 0.005 | 93 | 3498401 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.452 | 11.457 | -0.011 | 92 | 227927 | 10.0 | 7.23 | |
| 53 Trichloroethene | 95 | 11.484 | 11.484 | 0.000 | 99 | 1132941 | 10.0 | 9.29 | |
| 54 1,2-Dichloropropane | 63 | 12.019 | 12.024 | -0.011 | 86 | 735095 | 10.0 | 11.2 | |
| 55 Methyl methacrylate | 69 | 12.206 | 12.200 | 0.000 | 95 | 533406 | 10.0 | 9.83 | |
| A 51 GRO | 1 | 12.262 | (4.423-20.091) | | 0 | 293384167 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.265 | 12.281 | 0.000 | 94 | 1174467 | 10.0 | 10.5 | |
| 56 1,4-Dioxane | 88 | 12.281 | 12.280 | -0.005 | 89 | 333423 | 10.0 | 9.74 | |
| 58 Dichlorobromomethane | 83 | 12.554 | 12.543 | 0.005 | 98 | 1984412 | 10.0 | 10.5 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.474 | 13.485 | -0.011 | 93 | 1302309 | 10.0 | 11.1 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.790 | 13.790 | 0.000 | 97 | 1084694 | 10.0 | 8.95 | |
| 65 Toluene | 92 | 14.063 | 14.073 | -0.005 | 94 | 1551456 | 10.0 | 12.3 | |
| 64 n-Octane | 43 | 14.154 | 14.143 | 0.011 | 88 | 1327093 | 10.0 | 9.41 | |
| A 59 TVOC as Toluene | 92 | 14.159 | (3.086-25.232) | | 0 | 446021885 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.657 | 14.651 | 0.005 | 97 | 1222678 | 10.0 | 10.6 | |
| 67 1,1,2-Trichloroethane | 83 | 15.020 | 15.025 | -0.005 | 97 | 785820 | 10.0 | 11.5 | |
| 68 Tetrachloroethene | 166 | 15.138 | 15.127 | -0.005 | 96 | 1748719 | 10.0 | 11.5 | |
| 69 2-Hexanone | 43 | 15.507 | 15.507 | 0.000 | 94 | 1039115 | 10.0 | 9.34 | |
| 71 Chlorodibromomethane | 129 | 15.780 | 15.780 | 0.000 | 97 | 2239908 | 10.0 | 12.2 | |
| 72 Ethylene Dibromide | 107 | 16.047 | 16.042 | 0.000 | 99 | 1710523 | 10.0 | 12.4 | |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 3124165 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.016 | 17.016 | 0.000 | 97 | 2364075 | 10.0 | 12.1 | |
| 76 Ethylbenzene | 91 | 17.182 | 17.187 | 0.000 | 98 | 3235119 | 10.0 | 11.4 | |
| 77 n-Nonane | 57 | 17.353 | 17.358 | -0.005 | 84 | 1362732 | 10.0 | 10.9 | |
| 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.433 | 0.005 | 0 | 2620669 | 20.0 | 22.7 | |
| 79 o-Xylene | 106 | 18.289 | 18.284 | -0.005 | 99 | 1269539 | 10.0 | 11.6 | |
| 80 Styrene | 104 | 18.342 | 18.337 | 0.005 | 98 | 1934917 | 10.0 | 11.5 | |
| 81 Bromoform | 173 | 18.781 | 18.781 | 0.000 | 97 | 2128099 | 10.0 | 12.8 | |
| 82 Isopropylbenzene | 105 | 19.043 | 19.049 | -0.006 | 96 | 3704335 | 10.0 | 11.5 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 34.3 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.765 | 19.765 | 0.000 | 99 | 1790396 | 10.0 | 10.2 | |
| 85 N-Propylbenzene | 91 | 19.846 | 19.846 | 0.000 | 99 | 4130061 | 10.0 | 10.8 | |
| 86 1,2,3-Trichloropropane | 75 | 19.862 | 19.862 | 0.000 | 96 | 1407233 | 10.0 | 9.47 | |
| 89 2-Chlorotoluene | 91 | 20.049 | 20.054 | 0.005 | 96 | 3174681 | 10.0 | 11.0 | |
| 88 4-Ethyltoluene | 105 | 20.054 | 20.070 | 0.000 | 98 | 3566801 | 10.0 | 11.0 | |
| 87 n-Decane | 57 | 20.076 | 20.081 | -0.005 | 94 | 1496966 | 10.0 | 9.71 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.177 | -0.005 | 93 | 3056232 | 10.0 | 11.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.568 | 20.573 | 0.000 | 91 | 1572635 | 10.0 | 12.0 | |
| 92 tert-Butylbenzene | 119 | 20.696 | 20.691 | 0.005 | 92 | 2898243 | 10.0 | 11.1 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.793 | 0.000 | 97 | 2994208 | 10.0 | 10.9 | |
| 94 sec-Butylbenzene | 105 | 21.044 | 21.039 | 0.000 | 99 | 4280595 | 10.0 | 11.1 | |
| 95 4-Isopropyltoluene | 119 | 21.263 | 21.269 | -0.006 | 97 | 3687059 | 10.0 | 11.1 | |
| 96 1,3-Dichlorobenzene | 146 | 21.274 | 21.279 | 0.000 | 96 | 2453632 | 10.0 | 11.0 | |
| 97 1,4-Dichlorobenzene | 146 | 21.413 | 21.418 | -0.005 | 96 | 2398217 | 10.0 | 11.3 | |
| 98 Benzyl chloride | 91 | 21.622 | 21.616 | 0.006 | 99 | 2666078 | 10.0 | 10.1 | |
| 100 n-Butylbenzene | 91 | 21.852 | 21.852 | 0.000 | 98 | 3242232 | 10.0 | 10.7 | |
| 99 Undecane | 57 | 21.905 | 21.905 | 0.000 | 93 | 1505286 | 10.0 | 8.87 | |
| 101 1,2-Dichlorobenzene | 146 | 21.948 | 21.953 | -0.005 | 98 | 2230226 | 10.0 | 10.9 | |
| 102 Dodecane | 57 | 23.435 | 23.435 | 0.000 | 97 | 1039176 | 10.0 | 7.64 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334 | 24.334 | 0.000 | 94 | 1251873 | 10.0 | 8.14 | |
| 104 Hexachlorobutadiene | 225 | 24.527 | 24.526 | 0.001 | 98 | 1366608 | 10.0 | 8.93 | |
| 105 Naphthalene | 128 | 24.773 | 24.778 | -0.005 | 99 | 2225092 | 10.0 | 7.46 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.217 | 25.222 | -0.005 | 95 | 958028 | 10.0 | 7.21 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15LCSW_00791 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

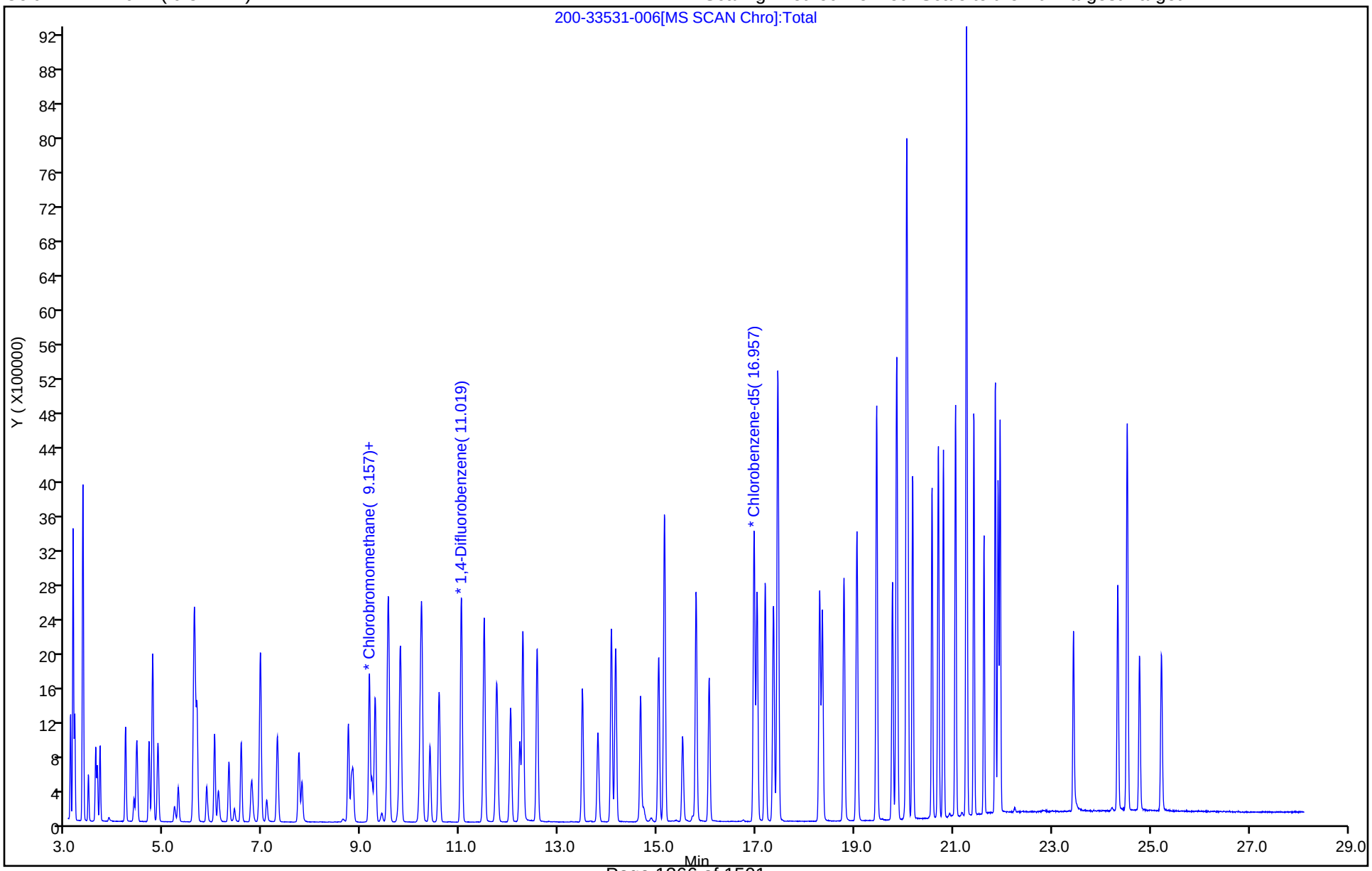
Report Date: 06-Dec-2018 13:09:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-006.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 05-Dec-2018 18:19:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | lcs | | | Worklist Smp#: | 6 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: LCS 200-137867/4

Matrix: Air | Lab File ID: 200-33558-004.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 16:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 11.5 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 10.4 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 11.1 | | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 10.1 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 9.76 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 9.84 | | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 9.84 | | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 10.3 | | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 9.50 | | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 10.2 | | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 10.3 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 10.2 | | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 9.99 | | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 9.93 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 9.76 | | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 10.4 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 9.68 | | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 9.56 | | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 10.0 | | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 9.79 | | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 9.65 | | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 9.81 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 9.39 | | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 8.94 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 10.5 | | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 9.97 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 8.68 | | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 9.93 | | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 9.61 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 10.2 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 9.36 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 10.5 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 9.57 | | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: LCS 200-137867/4

Matrix: Air | Lab File ID: 200-33558-004.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 16:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 9.34 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 9.61 | | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 8.80 | | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 9.02 | | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 10.0 | | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 10.5 | | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 9.71 | | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 8.55 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 9.98 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 9.36 | | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 9.70 | | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 11.2 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 8.43 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 11.3 | | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 10.1 | | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 10.1 | | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 9.57 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 18.9 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 9.67 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 9.81 | | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 11.1 | | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 9.83 | | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 9.09 | | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 9.42 | | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 9.62 | | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 9.66 | | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 9.59 | | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 9.81 | | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 9.69 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 9.86 | | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 10.0 | | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 10.0 | | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 10.2 | | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: LCS 200-137867/4

Matrix: Air  Lab File ID: 200-33558-004.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 16:43

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 9.08 | | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 9.67 | | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 10.0 | | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 7.90 | | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 8.55 | | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 7.30 | | 0.50 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-004.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 06-Dec-2018 16:43:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033558-004
Operator ID: ert Instrument ID: CHG.i

Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 07-Dec-2018 15:48:38 Calib Date: 28-Nov-2018 02:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: puangmaleek Date: 07-Dec-2018 15:49:43

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 3.090 | 3.096 | -0.006 | 96 | 426259 | 10.0 | 10.7 | |
| 2 Dichlorodifluoromethane | 85 | 3.144 | 3.149 | -0.005 | 99 | 2483319 | 10.0 | 11.5 | |
| 3 Chlorodifluoromethane | 51 | 3.176 | 3.181 | -0.005 | 96 | 953331 | 10.0 | 10.4 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.342 | 3.347 | -0.005 | 98 | 1810156 | 10.0 | 11.1 | |
| 5 Chloromethane | 50 | 3.454 | 3.459 | -0.005 | 98 | 423591 | 10.0 | 10.1 | |
| 6 Butane | 43 | 3.599 | 3.604 | -0.005 | 96 | 552093 | 10.0 | 9.76 | |
| 7 Vinyl chloride | 62 | 3.631 | 3.641 | -0.010 | 98 | 497649 | 10.0 | 9.84 | |
| 8 Butadiene | 54 | 3.689 | 3.695 | -0.006 | 95 | 309629 | 10.0 | 9.84 | |
| 10 Bromomethane | 94 | 4.208 | 4.208 | 0.000 | 99 | 601265 | 10.0 | 10.3 | |
| 11 Chloroethane | 64 | 4.374 | 4.380 | -0.006 | 99 | 185012 | 10.0 | 9.50 | |
| 12 2-Methylbutane | 43 | 4.433 | 4.438 | -0.005 | 88 | 369413 | 10.0 | 9.89 | |
| 13 Vinyl bromide | 106 | 4.679 | 4.685 | -0.006 | 99 | 591774 | 10.0 | 10.2 | |
| 14 Trichlorofluoromethane | 101 | 4.754 | 4.759 | -0.005 | 98 | 1761716 | 10.0 | 10.3 | |
| 16 Pentane | 43 | 4.861 | 4.866 | -0.005 | 98 | 533653 | 10.0 | 9.44 | |
| 17 Ethanol | 45 | 5.198 | 5.203 | -0.005 | 96 | 198973 | 15.0 | 17.0 | |
| 18 Ethyl ether | 59 | 5.278 | 5.284 | -0.006 | 97 | 196720 | 10.0 | 9.92 | |
| 19 Acrolein | 56 | 5.594 | 5.589 | 0.005 | 33 | 67559 | 10.0 | 8.90 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605 | 5.605 | 0.000 | 97 | 1226925 | 10.0 | 10.2 | |
| 9 BFB | | | | | | | | | |
| 21 1,1-Dichloroethene | 96 | 5.658 | 5.658 | 0.000 | 97 | 528685 | 10.0 | 10.0 | |
| 22 Acetone | 43 | 5.851 | 5.856 | -0.005 | 99 | 447366 | 10.0 | 9.93 | |
| 23 Carbon disulfide | 76 | 6.011 | 6.017 | -0.006 | 99 | 1420845 | 10.0 | 10.4 | |
| 24 Isopropyl alcohol | 45 | 6.086 | 6.092 | -0.006 | 100 | 486153 | 10.0 | 9.76 | |
| 25 3-Chloro-1-propene | 41 | 6.300 | 6.306 | -0.006 | 96 | 381074 | 10.0 | 9.68 | |
| 26 Acetonitrile | 41 | 6.412 | 6.418 | -0.006 | 96 | 119072 | 10.0 | 7.22 | |
| 27 Methylene Chloride | 49 | 6.552 | 6.557 | -0.005 | 88 | 456501 | 10.0 | 9.56 | |
| 28 2-Methyl-2-propanol | 59 | 6.766 | 6.766 | 0.000 | 93 | 763340 | 10.0 | 10.0 | |
| 29 Methyl tert-butyl ether | 73 | 6.937 | 6.937 | 0.000 | 95 | 1007600 | 10.0 | 9.79 | |
| 31 trans-1,2-Dichloroethene | 61 | 6.942 | 6.947 | -0.005 | 94 | 618987 | 10.0 | 9.65 | |
| 32 Acrylonitrile | 53 | 7.065 | 7.071 | -0.005 | 92 | 153049 | 10.0 | 8.51 | |
| 33 Hexane | 57 | 7.284 | 7.290 | -0.006 | 90 | 501604 | 10.0 | 9.81 | |
| 34 1,1-Dichloroethane | 63 | 7.723 | 7.723 | 0.000 | 99 | 777316 | 10.0 | 9.39 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 35 Vinyl acetate | 43 | 7.782 | 7.787 | -0.005 | 100 | 579724 | 10.0 | 9.26 | |
| 37 cis-1,2-Dichloroethene | 96 | 8.724 | 8.729 | -0.005 | 88 | 528075 | 10.0 | 10.5 | |
| 38 2-Butanone (MEK) | 72 | 8.788 | 8.788 | 0.000 | 100 | 144516 | 10.0 | 8.94 | |
| 39 Ethyl acetate | 88 | 8.820 | 8.820 | 0.000 | 99 | 22655 | 10.0 | 9.83 | |
| * 40 Chlorobromomethane | 128 | 9.152 | 9.157 | -0.005 | 72 | 578882 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 9.205 | 9.205 | 0.000 | 87 | 254099 | 10.0 | 8.68 | |
| 42 Chloroform | 83 | 9.264 | 9.269 | -0.005 | 96 | 1205803 | 10.0 | 9.97 | |
| 43 Cyclohexane | 84 | 9.526 | 9.531 | -0.005 | 95 | 565650 | 10.0 | 9.61 | |
| 44 1,1,1-Trichloroethane | 97 | 9.537 | 9.542 | -0.005 | 93 | 1415366 | 10.0 | 9.93 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 20.2 | |
| 45 Carbon tetrachloride | 117 | 9.777 | 9.783 | -0.006 | 98 | 1558841 | 10.0 | 10.2 | |
| 46 Isooctane | 57 | 10.195 | 10.200 | -0.005 | 97 | 1823590 | 10.0 | 9.36 | |
| 47 Benzene | 78 | 10.211 | 10.216 | -0.005 | 96 | 1441045 | 10.0 | 10.5 | |
| 48 1,2-Dichloroethane | 62 | 10.382 | 10.382 | 0.000 | 99 | 755779 | 10.0 | 9.57 | |
| 49 n-Heptane | 43 | 10.564 | 10.569 | -0.005 | 92 | 656502 | 10.0 | 9.34 | |
| * 50 1,4-Difluorobenzene | 114 | 11.013 | 11.019 | -0.006 | 93 | 2565414 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 11.452 | 11.463 | -0.011 | 89 | 186314 | 10.0 | 8.06 | |
| 53 Trichloroethene | 95 | 11.479 | 11.484 | -0.005 | 99 | 858989 | 10.0 | 9.61 | |
| 54 1,2-Dichloropropane | 63 | 12.019 | 12.019 | 0.000 | 85 | 434616 | 10.0 | 9.02 | |
| 55 Methyl methacrylate | 69 | 12.201 | 12.201 | 0.000 | 95 | 350215 | 10.0 | 8.80 | |
| A 51 GRO | 1 | 12.257 | (4.428-20.086) | | 0 | 206231686 | 10.0 | 0 | |
| 57 Dibromomethane | 174 | 12.265 | 12.265 | 0.000 | 94 | 883136 | 10.0 | 10.7 | |
| 56 1,4-Dioxane | 88 | 12.276 | 12.281 | -0.005 | 91 | 251577 | 10.0 | 10.0 | |
| 58 Dichlorobromomethane | 83 | 12.549 | 12.554 | -0.005 | 98 | 1462868 | 10.0 | 10.5 | |
| 60 cis-1,3-Dichloropropene | 75 | 13.469 | 13.474 | -0.005 | 92 | 834259 | 10.0 | 9.71 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 13.784 | 13.790 | -0.006 | 97 | 759395 | 10.0 | 8.55 | |
| 65 Toluene | 92 | 14.063 | 14.063 | 0.000 | 93 | 985865 | 10.0 | 9.98 | |
| 64 n-Octane | 43 | 14.143 | 14.148 | -0.005 | 88 | 970613 | 10.0 | 9.39 | |
| A 59 TVOC as Toluene | 92 | 14.153 | (3.080-25.227) | | 0 | 317798287 | 10.0 | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | 14.651 | 14.656 | -0.005 | 97 | 791526 | 10.0 | 9.36 | |
| 67 1,1,2-Trichloroethane | 83 | 15.020 | 15.026 | -0.006 | 97 | 518446 | 10.0 | 9.70 | |
| 68 Tetrachloroethene | 166 | 15.138 | 15.138 | 0.000 | 96 | 1326729 | 10.0 | 11.2 | |
| 69 2-Hexanone | 43 | 15.507 | 15.507 | 0.000 | 94 | 732222 | 10.0 | 8.43 | |
| 71 Chlorodibromomethane | 129 | 15.780 | 15.780 | 0.000 | 97 | 1618989 | 10.0 | 11.3 | |
| 72 Ethylene Dibromide | 107 | 16.042 | 16.042 | 0.000 | 98 | 1094783 | 10.0 | 10.1 | |
| * 74 Chlorobenzene-d5 | 117 | 16.957 | 16.957 | 0.000 | 84 | 2438923 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 17.016 | 17.016 | 0.000 | 97 | 1541658 | 10.0 | 10.1 | |
| 76 Ethylbenzene | 91 | 17.181 | 17.181 | 0.000 | 98 | 2128568 | 10.0 | 9.57 | |
| 77 n-Nonane | 57 | 17.347 | 17.353 | -0.006 | 84 | 900116 | 10.0 | 9.25 | |
| 78 m-Xylene & p-Xylene | 106 | 17.438 | 17.438 | 0.000 | 0 | 1708163 | 20.0 | 18.9 | |
| 79 o-Xylene | 106 | 18.283 | 18.283 | 0.000 | 99 | 829162 | 10.0 | 9.67 | |
| 80 Styrene | 104 | 18.342 | 18.342 | 0.000 | 97 | 1286610 | 10.0 | 9.81 | |
| 81 Bromoform | 173 | 18.781 | 18.781 | 0.000 | 97 | 1438743 | 10.0 | 11.1 | |
| 82 Isopropylbenzene | 105 | 19.043 | 19.043 | 0.000 | 96 | 2463621 | 10.0 | 9.83 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 28.6 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 19.760 | 19.765 | -0.005 | 99 | 1242949 | 10.0 | 9.09 | |
| 85 N-Propylbenzene | 91 | 19.846 | 19.840 | 0.006 | 99 | 2812141 | 10.0 | 9.42 | |
| 86 1,2,3-Trichloropropane | 75 | 19.856 | 19.856 | 0.000 | 95 | 952853 | 10.0 | 8.21 | |
| 89 2-Chlorotoluene | 91 | 20.044 | 20.049 | -0.005 | 97 | 2160538 | 10.0 | 9.59 | |
| 88 4-Ethyltoluene | 105 | 20.054 | 20.054 | 0.000 | 97 | 2444549 | 10.0 | 9.62 | |
| 87 n-Decane | 57 | 20.076 | 20.076 | 0.000 | 94 | 1046902 | 10.0 | 8.70 | |
| 90 1,3,5-Trimethylbenzene | 105 | 20.172 | 20.172 | 0.000 | 93 | 2100719 | 10.0 | 9.66 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 91 Alpha Methyl Styrene | 118 | 20.562 | 20.562 | 0.000 | 92 | 1101956 | 10.0 | 10.8 | |
| 92 tert-Butylbenzene | 119 | 20.691 | 20.691 | 0.000 | 92 | 1993660 | 10.0 | 9.81 | |
| 93 1,2,4-Trimethylbenzene | 105 | 20.798 | 20.798 | 0.000 | 97 | 2077439 | 10.0 | 9.69 | |
| 94 sec-Butylbenzene | 105 | 21.044 | 21.044 | 0.000 | 98 | 2971089 | 10.0 | 9.86 | |
| 95 4-Isopropyltoluene | 119 | 21.263 | 21.263 | 0.000 | 97 | 2589485 | 10.0 | 10.0 | |
| 96 1,3-Dichlorobenzene | 146 | 21.269 | 21.269 | 0.000 | 96 | 1738234 | 10.0 | 10.0 | |
| 97 1,4-Dichlorobenzene | 146 | 21.413 | 21.413 | 0.000 | 96 | 1701958 | 10.0 | 10.2 | |
| 98 Benzyl chloride | 91 | 21.622 | 21.616 | 0.006 | 99 | 1861842 | 10.0 | 9.08 | |
| 100 n-Butylbenzene | 91 | 21.846 | 21.846 | 0.000 | 98 | 2278384 | 10.0 | 9.67 | |
| 99 Undecane | 57 | 21.905 | 21.905 | 0.000 | 93 | 1074695 | 10.0 | 8.11 | |
| 101 1,2-Dichlorobenzene | 146 | 21.948 | 21.948 | 0.000 | 98 | 1600628 | 10.0 | 10.0 | |
| 102 Dodecane | 57 | 23.435 | 23.435 | 0.000 | 98 | 781890 | 10.0 | 7.37 | |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334 | 24.334 | 0.000 | 94 | 947920 | 10.0 | 7.90 | |
| 104 Hexachlorobutadiene | 225 | 24.527 | 24.527 | 0.000 | 98 | 1021220 | 10.0 | 8.55 | |
| 105 Naphthalene | 128 | 24.773 | 24.773 | 0.000 | 99 | 1699400 | 10.0 | 7.30 | |
| 106 1,2,3-Trichlorobenzene | 180 | 25.222 | 25.222 | 0.000 | 95 | 763361 | 10.0 | 7.36 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15LCSW_00791 | Amount Added: 200.00 | Units: mL | |
| ATTO15GIS_00015 | Amount Added: 20.00 | Units: mL | Run Reagent |

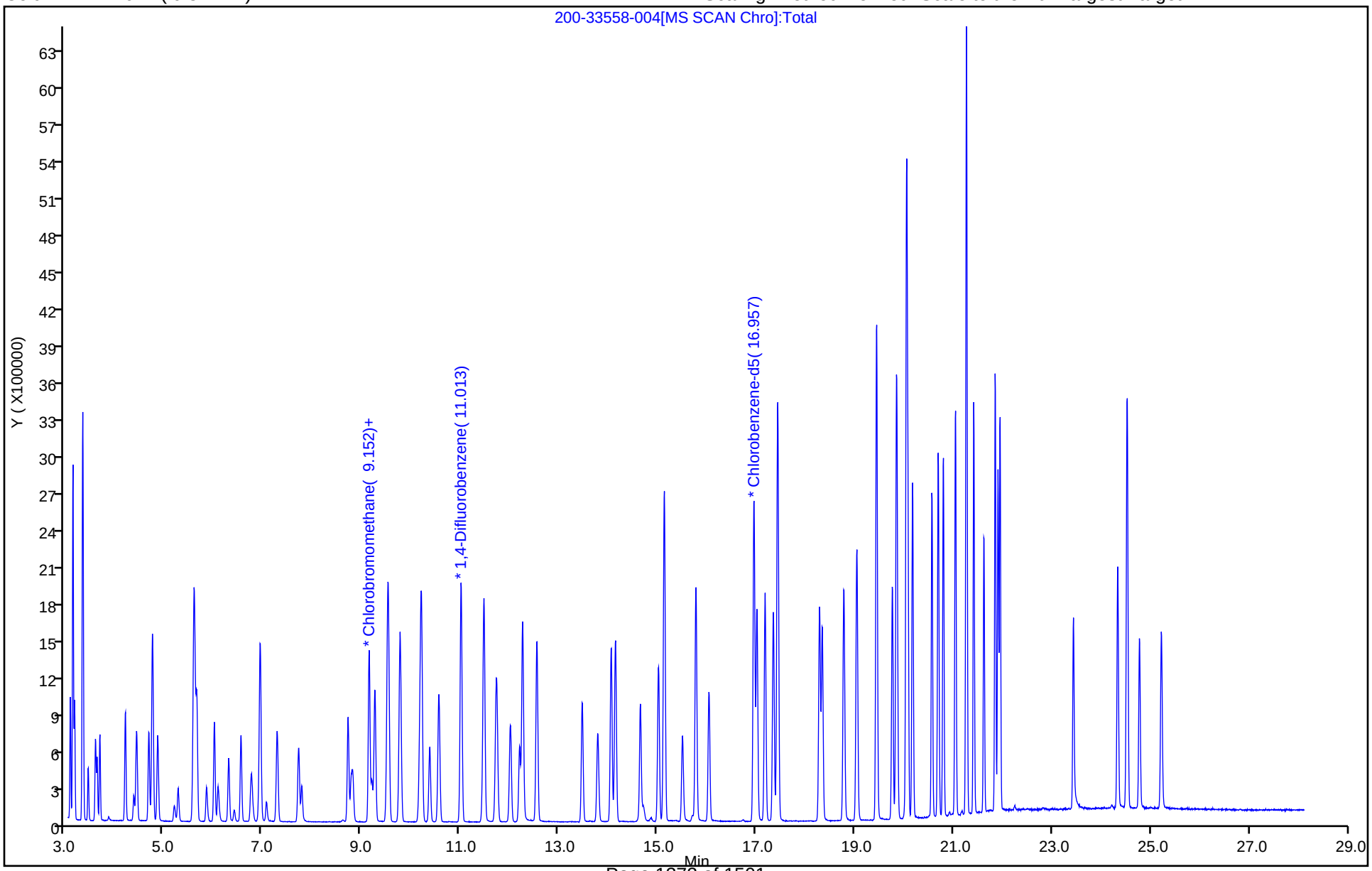
Report Date: 07-Dec-2018 15:49:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-004.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 06-Dec-2018 16:43:30 | Instrument ID: | CHG.i | Operator ID: | ert |
| Lims ID: | lcs | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 4 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: LCS 200-137900/5

Matrix: Air | Lab File ID: 33574-4A.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 14:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 11.0 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 10.9 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 10.6 | | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 10.7 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 10.6 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 10.5 | | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 10.6 | | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 10.8 | | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 10.9 | | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 10.8 | | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 10.5 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 10.5 | | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 10.5 | | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 10.7 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 10.1 | | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 10.4 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 10.4 | | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 10.5 | | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 10.8 | | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 10.4 | | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 11.3 | | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 10.6 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 10.3 | | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 10.3 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 10.2 | | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 12.6 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 8.05 | | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 9.35 | | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 10.1 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 9.11 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 10.8 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 10.2 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 10.0 | | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: | Lab Sample ID: LCS 200-137900/5

Matrix: Air | Lab File ID: 33574-4A.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 14:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137900 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 11.3 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 10.8 | | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 11.3 | | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 11.9 | | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 10.6 | | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 10.5 | | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 10.6 | | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 11.4 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 10.3 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 10.1 | | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 10.6 | | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 9.47 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 11.2 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 10.1 | | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 10.4 | | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 10.1 | | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 10.3 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 20.5 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 10.3 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 10.9 | | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 9.87 | | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 10.3 | | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 10.9 | | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 10.5 | | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 10.3 | | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 10.1 | | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 10.2 | | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 9.98 | | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 10.2 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 10.4 | | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 10.2 | | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 10.1 | | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 10.1 | | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID:  Lab Sample ID: LCS 200-137900/5

Matrix: Air  Lab File ID: 33574-4A.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 14:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137900  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 9.67 | | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 10.8 | | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 10.1 | | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 8.97 | | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 8.88 | | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 9.25 | | 0.50 | |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-4A.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 07-Dec-2018 14:59:30 ALS Bottle#: 8 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033574-004
Misc. Info.: lcs
Operator ID: ggg Instrument ID: CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX0324

First Level Reviewer: phamvu Date: 10-Dec-2018 17:24:52

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | 2.962 | 2.962 | 0.000 | 94 | 79999 | 10.0 | 11.1 | |
| 2 Dichlorodifluoromethane | 85 | 3.031 | 3.031 | 0.000 | 99 | 386600 | 10.0 | 11.0 | |
| 3 Chlorodifluoromethane | 51 | 3.079 | 3.079 | 0.000 | 98 | 194650 | 10.0 | 10.9 | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | 3.287 | 3.287 | 0.000 | 92 | 293851 | 10.0 | 10.6 | |
| 5 Chloromethane | 50 | 3.416 | 3.416 | 0.000 | 98 | 71324 | 10.0 | 10.7 | |
| 6 Butane | 43 | 3.618 | 3.618 | 0.000 | 92 | 105987 | 10.0 | 10.6 | |
| 7 Vinyl chloride | 62 | 3.656 | 3.656 | 0.000 | 100 | 80630 | 10.0 | 10.5 | |
| 8 Butadiene | 54 | 3.730 | 3.730 | 0.000 | 94 | 54000 | 10.0 | 10.6 | |
| 10 Bromomethane | 94 | 4.398 | 4.398 | 0.000 | 96 | 74448 | 10.0 | 10.8 | |
| 11 Chloroethane | 64 | 4.632 | 4.632 | 0.000 | 96 | 32073 | 10.0 | 10.9 | |
| 12 2-Methylbutane | 43 | 4.712 | 4.718 | -0.006 | 83 | 62772 | 10.0 | 10.8 | |
| 9 BFB | | | | | | | | | |
| 13 Vinyl bromide | 106 | 5.017 | 5.022 | -0.005 | 97 | 90422 | 10.0 | 10.8 | |
| 14 Trichlorofluoromethane | 101 | 5.134 | 5.134 | 0.000 | 100 | 341214 | 10.0 | 10.5 | |
| 16 Pentane | 43 | 5.283 | 5.283 | 0.000 | 93 | 123992 | 10.0 | 10.5 | |
| 17 Ethanol | 45 | 5.705 | 5.710 | -0.005 | 95 | 55203 | 15.0 | 20.2 | |
| 18 Ethyl ether | 59 | 5.796 | 5.796 | 0.000 | 95 | 54101 | 10.0 | 10.5 | |
| 19 Acrolein | 56 | 6.153 | 6.159 | -0.006 | 97 | 17841 | 10.0 | 7.46 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223 | 6.223 | 0.000 | 96 | 222717 | 10.0 | 10.5 | |
| 21 1,1-Dichloroethene | 96 | 6.249 | 6.244 | 0.005 | 94 | 90398 | 10.0 | 10.5 | |
| 22 Acetone | 43 | 6.468 | 6.468 | 0.000 | 100 | 153416 | 10.0 | 10.7 | |
| 23 Carbon disulfide | 76 | 6.623 | 6.628 | -0.005 | 99 | 246759 | 10.0 | 10.4 | |
| 24 Isopropyl alcohol | 45 | 6.788 | 6.788 | 0.000 | 98 | 126855 | 10.0 | 10.1 | |
| 25 3-Chloro-1-propene | 41 | 7.034 | 7.039 | -0.005 | 89 | 88123 | 10.0 | 10.4 | |
| 26 Acetonitrile | 41 | 7.130 | 7.135 | -0.005 | 97 | 47245 | 10.0 | 10.6 | |
| 27 Methylene Chloride | 49 | 7.327 | 7.333 | -0.006 | 93 | 102712 | 10.0 | 10.5 | |
| 28 2-Methyl-2-propanol | 59 | 7.562 | 7.568 | -0.006 | 96 | 204916 | 10.0 | 10.8 | |
| 29 Methyl tert-butyl ether | 73 | 7.749 | 7.749 | 0.000 | 94 | 294764 | 10.0 | 10.4 | |
| 31 trans-1,2-Dichloroethene | 61 | 7.781 | 7.781 | 0.000 | 96 | 144090 | 10.0 | 11.3 | |
| 32 Acrylonitrile | 53 | 7.899 | 7.904 | -0.005 | 89 | 50301 | 10.0 | 10.6 | |
| 33 Hexane | 57 | 8.187 | 8.192 | -0.005 | 85 | 118296 | 10.0 | 10.6 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 34 1,1-Dichloroethane | 63 | 8.646 | 8.646 | 0.000 | 99 | 170999 | 10.0 | 10.3 | |
| 35 Vinyl acetate | 43 | 8.736 | 8.736 | 0.000 | 99 | 212496 | 10.0 | 10.6 | |
| 37 cis-1,2-Dichloroethene | 96 | 9.761 | 9.766 | -0.005 | 96 | 100442 | 10.0 | 10.2 | |
| 38 2-Butanone (MEK) | 72 | 9.804 | 9.804 | 0.000 | 100 | 42664 | 10.0 | 10.3 | |
| 39 Ethyl acetate | 88 | 9.863 | 9.863 | -0.001 | 99 | 8163 | 10.0 | 10.3 | |
| S 30 1,2-Dichloroethene, Total | 61 | | | | 0 | | 20.0 | 21.5 | |
| * 40 Chlorobromomethane | 128 | 10.220 | 10.225 | -0.005 | 79 | 180149 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | 10.225 | 10.231 | -0.006 | 58 | 82915 | 10.0 | 8.05 | |
| 42 Chloroform | 83 | 10.364 | 10.370 | -0.006 | 97 | 297142 | 10.0 | 12.6 | |
| 43 Cyclohexane | 84 | 10.620 | 10.620 | 0.000 | 95 | 167103 | 10.0 | 10.1 | |
| 44 1,1,1-Trichloroethane | 97 | 10.636 | 10.642 | -0.006 | 95 | 372673 | 10.0 | 9.35 | |
| 45 Carbon tetrachloride | 117 | 10.893 | 10.898 | -0.005 | 98 | 391867 | 10.0 | 9.11 | |
| 46 Isooctane | 57 | 11.346 | 11.346 | 0.000 | 96 | 630128 | 10.0 | 10.8 | |
| 47 Benzene | 78 | 11.346 | 11.346 | 0.000 | 99 | 419521 | 10.0 | 10.2 | |
| 48 1,2-Dichloroethane | 62 | 11.522 | 11.528 | -0.006 | 99 | 266795 | 10.0 | 10.0 | |
| 49 n-Heptane | 43 | 11.757 | 11.752 | 0.005 | 89 | 237554 | 10.0 | 11.3 | |
| * 50 1,4-Difluorobenzene | 114 | 12.205 | 12.205 | 0.000 | 95 | 1311864 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | 12.616 | 12.616 | 0.000 | 90 | 89857 | 10.0 | 11.2 | |
| 53 Trichloroethene | 95 | 12.675 | 12.675 | 0.000 | 95 | 244319 | 10.0 | 10.8 | |
| A 51 GRO | 1 | 12.966 | (4.708-21.224) | | 0 | 77120524 | 10.0 | 0 | |
| 54 1,2-Dichloropropane | 63 | 13.214 | 13.219 | -0.005 | 83 | 189848 | 10.0 | 11.9 | |
| 55 Methyl methacrylate | 69 | 13.412 | 13.417 | -0.005 | 92 | 187562 | 10.0 | 11.3 | |
| 56 1,4-Dioxane | 88 | 13.449 | 13.449 | 0.000 | 95 | 106937 | 10.0 | 10.6 | |
| 57 Dibromomethane | 174 | 13.476 | 13.481 | -0.005 | 95 | 258783 | 10.0 | 10.2 | |
| 58 Dichlorobromomethane | 83 | 13.796 | 13.796 | 0.000 | 99 | 449276 | 10.0 | 10.5 | |
| A 59 TVOC as Toluene | 1 | 14.650 | (2.952-26.348) | | 0 | 125048687 | 10.0 | 0 | |
| 60 cis-1,3-Dichloropropene | 75 | 14.740 | 14.746 | -0.006 | 98 | 332989 | 10.0 | 10.6 | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | 15.023 | 15.023 | 0.000 | 96 | 387215 | 10.0 | 11.4 | |
| 65 Toluene | 92 | 15.338 | 15.338 | 0.000 | 93 | 384756 | 10.0 | 10.3 | |
| 64 n-Octane | 43 | 15.440 | 15.440 | 0.000 | 87 | 385085 | 10.0 | 11.5 | |
| 66 trans-1,3-Dichloropropene | 75 | 15.941 | 15.941 | 0.000 | 98 | 325941 | 10.0 | 10.1 | |
| 67 1,1,2-Trichloroethane | 83 | 16.315 | 16.315 | 0.000 | 99 | 191743 | 10.0 | 10.6 | |
| 68 Tetrachloroethene | 166 | 16.438 | 16.438 | 0.000 | 95 | 358209 | 10.0 | 9.47 | |
| 69 2-Hexanone | 43 | 16.763 | 16.763 | 0.000 | 94 | 380196 | 10.0 | 11.2 | |
| 71 Chlorodibromomethane | 129 | 17.073 | 17.078 | -0.005 | 98 | 434895 | 10.0 | 10.1 | |
| 72 Ethylene Dibromide | 107 | 17.334 | 17.334 | 0.000 | 99 | 374507 | 10.0 | 10.4 | |
| * 74 Chlorobenzene-d5 | 117 | 18.241 | 18.241 | 0.000 | 89 | 1362759 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | 18.300 | 18.300 | 0.000 | 94 | 529266 | 10.0 | 10.1 | |
| 76 Ethylbenzene | 91 | 18.460 | 18.460 | 0.000 | 100 | 898381 | 10.0 | 10.3 | |
| 77 n-Nonane | 57 | 18.620 | 18.626 | -0.006 | 86 | 392822 | 10.0 | 11.2 | |
| 78 m-Xylene & p-Xylene | 106 | 18.711 | 18.711 | 0.000 | 0 | 656035 | 20.0 | 20.5 | |
| 79 o-Xylene | 106 | 19.544 | 19.549 | -0.005 | 98 | 322550 | 10.0 | 10.3 | |
| 80 Styrene | 104 | 19.597 | 19.602 | -0.005 | 99 | 528002 | 10.0 | 10.9 | |
| 81 Bromoform | 173 | 20.029 | 20.035 | -0.006 | 96 | 386319 | 10.0 | 9.87 | |
| S 73 Xylenes, Total | 106 | | | | 0 | | 30.0 | 30.7 | |
| 82 Isopropylbenzene | 105 | 20.259 | 20.259 | 0.000 | 97 | 1036872 | 10.0 | 10.3 | |
| 84 1,1,2,2-Tetrachloroethane | 83 | 20.926 | 20.926 | 0.000 | 99 | 506374 | 10.0 | 10.9 | |
| 85 N-Propylbenzene | 91 | 21.006 | 21.006 | 0.000 | 98 | 1230014 | 10.0 | 10.5 | |
| 86 1,2,3-Trichloropropane | 75 | 21.022 | 21.022 | 0.000 | 95 | 431426 | 10.0 | 10.7 | |
| 88 4-Ethyltoluene | 105 | 21.198 | 21.198 | 0.000 | 98 | 1004611 | 10.0 | 10.3 | |
| 89 2-Chlorotoluene | 91 | 21.203 | 21.203 | 0.000 | 95 | 868422 | 10.0 | 10.2 | |
| 87 n-Decane | 57 | 21.214 | 21.214 | 0.000 | 95 | 501294 | 10.0 | 11.4 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 90 1,3,5-Trimethylbenzene | 105 | 21.310 | 21.310 | 0.000 | 91 | 896762 | 10.0 | 10.1 | |
| 91 Alpha Methyl Styrene | 118 | 21.684 | 21.684 | 0.000 | 86 | 427467 | 10.0 | 10.6 | |
| 92 tert-Butylbenzene | 119 | 21.806 | 21.807 | 0.000 | 91 | 839253 | 10.0 | 9.98 | |
| 93 1,2,4-Trimethylbenzene | 105 | 21.903 | 21.903 | 0.000 | 98 | 899855 | 10.0 | 10.2 | |
| 94 sec-Butylbenzene | 105 | 22.137 | 22.137 | 0.000 | 98 | 1270123 | 10.0 | 10.4 | |
| 95 4-Isopropyltoluene | 119 | 22.346 | 22.346 | 0.000 | 97 | 1091006 | 10.0 | 10.2 | |
| 96 1,3-Dichlorobenzene | 146 | 22.367 | 22.372 | -0.005 | 99 | 602396 | 10.0 | 10.1 | |
| 97 1,4-Dichlorobenzene | 146 | 22.506 | 22.506 | 0.000 | 93 | 615716 | 10.0 | 10.1 | |
| 98 Benzyl chloride | 91 | 22.698 | 22.698 | 0.000 | 98 | 803693 | 10.0 | 9.67 | |
| 100 n-Butylbenzene | 91 | 22.911 | 22.911 | 0.000 | 98 | 1056604 | 10.0 | 10.8 | |
| 99 Undecane | 57 | 22.954 | 22.954 | 0.000 | 92 | 581942 | 10.0 | 12.3 | |
| 101 1,2-Dichlorobenzene | 146 | 23.029 | 23.029 | 0.000 | 94 | 585303 | 10.0 | 10.1 | |
| 102 Dodecane | 57 | 24.486 | 24.486 | 0.000 | 95 | 502300 | 10.0 | 11.0 | |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436 | 25.436 | 0.000 | 95 | 470186 | 10.0 | 8.97 | |
| 104 Hexachlorobutadiene | 225 | 25.622 | 25.628 | -0.006 | 98 | 435497 | 10.0 | 8.88 | |
| 105 Naphthalene | 128 | 25.884 | 25.884 | 0.000 | 99 | 955982 | 10.0 | 9.25 | |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343 | 26.338 | 0.005 | 95 | 417131 | 10.0 | 8.58 | |

## Reagents:

| | | | |
|---|---|---|---|
| ATTO15LCSW_00790 | Amount Added: 200.00 | Units: mL | |
| ATTO15CISs_00010 | Amount Added: 20.00 | Units: mL | Run Reagent |

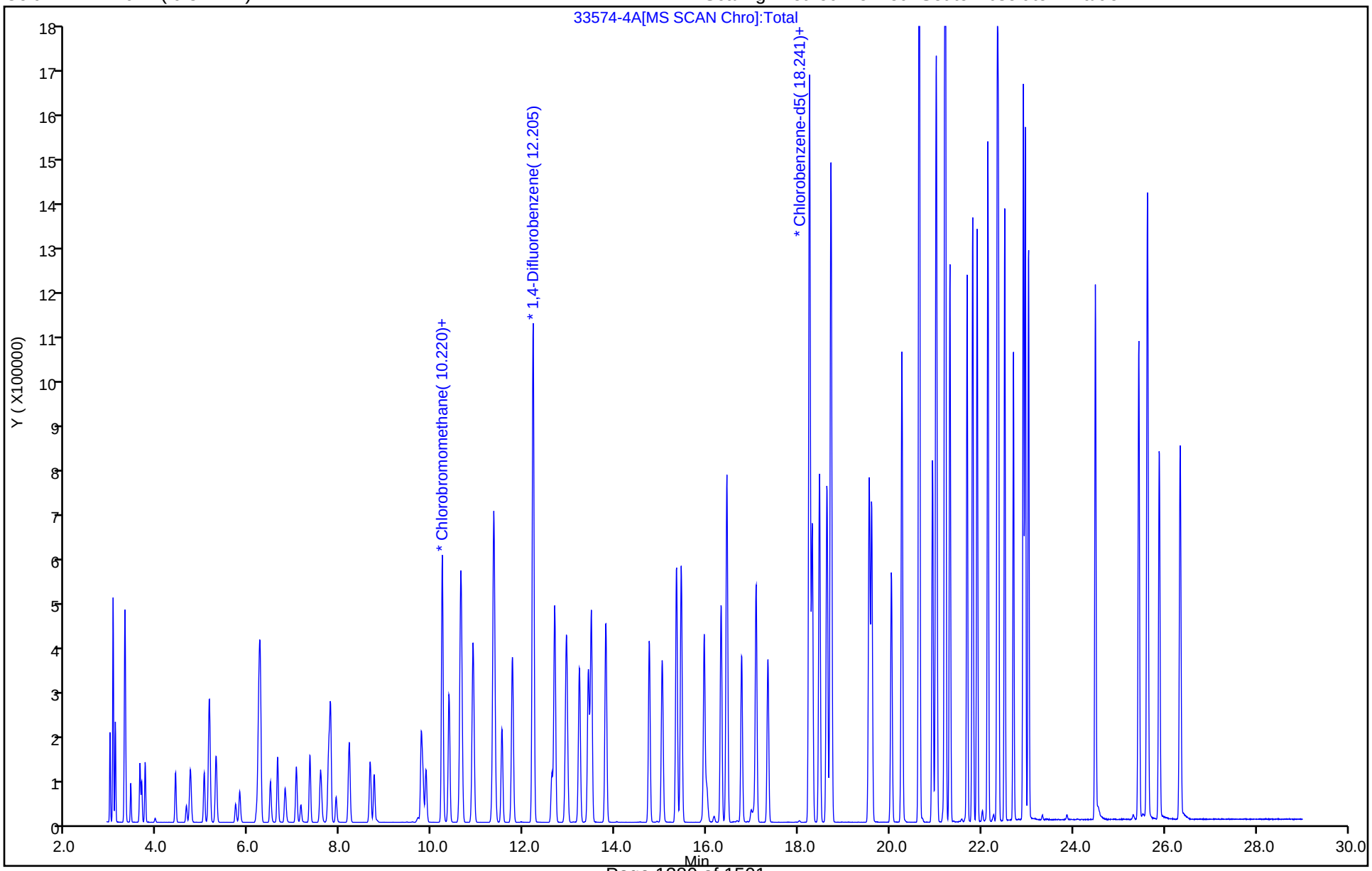
Report Date: 10-Dec-2018 17:27:57 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-4A.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 07-Dec-2018 14:59:30 | Instrument ID: | CHC.i | Operator ID: | ggg |
| Lims ID: | lcs | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 8 |
| Method: | TO15_MasterMethod_(v1)_CHC.i | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Start Date: 11/27/2018 17:52

Analysis Batch Number: 137447 End Date: 11/28/2018 07:19

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-137447/1 | | 11/27/2018 17:52 | 1 | 200-33385-001.D | RTX-624 0.32(mm) |
| VIBLK 200-137447/2 | | 11/27/2018 18:41 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-137447/3 | | 11/27/2018 19:32 | 1 | | RTX-624 0.32(mm) |
| IC 200-137447/4 | | 11/27/2018 20:22 | 1 | 200-33385-004.D | RTX-624 0.32(mm) |
| IC 200-137447/5 | | 11/27/2018 21:13 | 1 | 200-33385-005.D | RTX-624 0.32(mm) |
| IC 200-137447/6 | | 11/27/2018 22:03 | 1 | 200-33385-006.D | RTX-624 0.32(mm) |
| IC 200-137447/7 | | 11/27/2018 22:54 | 1 | 200-33385-007.D | RTX-624 0.32(mm) |
| ICIS 200-137447/8 | | 11/27/2018 23:44 | 1 | 200-33385-008.D | RTX-624 0.32(mm) |
| IC 200-137447/9 | | 11/28/2018 00:35 | 1 | 200-33385-009.D | RTX-624 0.32(mm) |
| IC 200-137447/10 | | 11/28/2018 01:25 | 1 | 200-33385-010.D | RTX-624 0.32(mm) |
| IC 200-137447/11 | | 11/28/2018 02:15 | 1 | 200-33385-011.D | RTX-624 0.32(mm) |
| VIBLK 200-137447/12 | | 11/28/2018 03:06 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-137447/13 | | 11/28/2018 03:56 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 11/28/2018 04:47 | 1 | | RTX-624 0.32(mm) |
| ICV 200-137447/15 | | 11/28/2018 05:37 | 1 | 200-33385-015.D | RTX-624 0.32(mm) |
| ZZZZZ | | 11/28/2018 06:28 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-137447/17 | | 11/28/2018 07:19 | 1 | | RTX-624 0.32(mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i Start Date: 12/04/2018 18:02

Analysis Batch Number: 137783 End Date: 12/05/2018 11:56

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-137783/1 | | 12/04/2018 18:02 | 1 | 33516-01A.D | RTX-624 0.32(mm) |
| VIBLK 200-137783/2 | | 12/04/2018 18:50 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-137783/3 | | 12/04/2018 19:43 | 1 | | RTX-624 0.32(mm) |
| IC 200-137783/4 | | 12/04/2018 20:51 | 1 | 33516-04.D | RTX-624 0.32(mm) |
| IC 200-137783/5 | | 12/04/2018 21:44 | 1 | 33516-05.D | RTX-624 0.32(mm) |
| IC 200-137783/6 | | 12/04/2018 22:37 | 1 | 33516-06.D | RTX-624 0.32(mm) |
| IC 200-137783/7 | | 12/04/2018 23:31 | 1 | 33516-07.D | RTX-624 0.32(mm) |
| ICIS 200-137783/8 | | 12/05/2018 00:25 | 1 | 33516-08.D | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 01:18 | 1 | | RTX-624 0.32(mm) |
| IC 200-137783/10 | | 12/05/2018 02:11 | 1 | 33516-10.D | RTX-624 0.32(mm) |
| IC 200-137783/11 | | 12/05/2018 03:05 | 1 | 33516-11.D | RTX-624 0.32(mm) |
| VIBLK 200-137783/12 | | 12/05/2018 03:58 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-137783/13 | | 12/05/2018 04:52 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-137783/14 | | 12/05/2018 05:45 | 1 | | RTX-624 0.32(mm) |
| IC 200-137783/18 | | 12/05/2018 09:17 | 1 | 33516-18.D | RTX-624 0.32(mm) |
| ICV 200-137783/21 | | 12/05/2018 11:56 | 1 | 33516-21.D | RTX-624 0.32(mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Start Date: 12/05/2018 14:11

Analysis Batch Number: 137819 End Date: 12/06/2018 11:53

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-137819/1 | | 12/05/2018 14:11 | 1 | 200-33531-001.D | RTX-624 0.32(mm) |
| CCVIS 200-137819/3 | | 12/05/2018 15:48 | 1 | 200-33531-003.D | RTX-624 0.32(mm) |
| MB 200-137819/5 | | 12/05/2018 17:29 | 1 | 200-33531-005.D | RTX-624 0.32(mm) |
| LCS 200-137819/6 | | 12/05/2018 18:19 | 1 | 200-33531-006.D | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 19:09 | 100 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 19:59 | 100 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 20:50 | 103 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 21:40 | 103 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 22:30 | 108 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/05/2018 23:20 | 2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 00:10 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 01:00 | 7.14 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 01:50 | 5 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 02:40 | 25 | | RTX-624 0.32(mm) |
| 200-46353-1 | | 12/06/2018 03:30 | 1 | 200-33531-017.D | RTX-624 0.32(mm) |
| 200-46353-2 | | 12/06/2018 04:21 | 1 | 200-33531-018.D | RTX-624 0.32(mm) |
| 200-46353-3 | | 12/06/2018 05:11 | 1 | 200-33531-019.D | RTX-624 0.32(mm) |
| 200-46353-4 | | 12/06/2018 06:01 | 1 | 200-33531-020.D | RTX-624 0.32(mm) |
| 200-46353-5 | | 12/06/2018 06:51 | 1 | 200-33531-021.D | RTX-624 0.32(mm) |
| 200-46353-6 | | 12/06/2018 07:42 | 1 | 200-33531-022.D | RTX-624 0.32(mm) |
| 200-46353-7 | | 12/06/2018 08:32 | 50 | 200-33531-023.D | RTX-624 0.32(mm) |
| 200-46353-8 | | 12/06/2018 09:23 | 20 | 200-33531-024.D | RTX-624 0.32(mm) |
| 200-46353-9 | | 12/06/2018 10:13 | 1 | 200-33531-025.D | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 11:03 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 11:53 | 1 | | RTX-624 0.32(mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Start Date: 12/06/2018 14:19

Analysis Batch Number: 137867 End Date: 12/07/2018 08:36

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-137867/1 | | 12/06/2018 14:19 | 1 | 200-33558-001.D | RTX-624 0.32(mm) |
| CCVIS 200-137867/3 | | 12/06/2018 15:53 | 1 | 200-33558-003.D | RTX-624 0.32(mm) |
| LCS 200-137867/4 | | 12/06/2018 16:43 | 1 | 200-33558-004.D | RTX-624 0.32(mm) |
| MB 200-137867/5 | | 12/06/2018 17:33 | 1 | 200-33558-005.D | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 18:23 | 2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 19:13 | 10.02 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 20:03 | 47.6 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 20:53 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/06/2018 21:42 | 1 | | RTX-624 0.32(mm) |
| 200-46353-6 DL | | 12/06/2018 22:33 | 4 | 200-33558-011.D | RTX-624 0.32(mm) |
| 200-46353-10 | | 12/06/2018 23:23 | 1 | 200-33558-012.D | RTX-624 0.32(mm) |
| 200-46353-11 | | 12/07/2018 00:13 | 1 | 200-33558-013.D | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 01:03 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 01:53 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 02:43 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 03:33 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 04:24 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 05:14 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 06:04 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 06:55 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 07:45 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 12/07/2018 08:36 | 1 | | RTX-624 0.32(mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i Start Date: 12/07/2018 11:07

Analysis Batch Number: 137900 End Date: 12/07/2018 16:45

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-137900/1 | | 12/07/2018 11:07 | 1 | 33574-01.D | RTX-624 0.32(mm) |
| CCVIS 200-137900/3 | | 12/07/2018 12:44 | 1 | 33574-03.D | RTX-624 0.32(mm) |
| LCS 200-137900/5 | | 12/07/2018 14:59 | 1 | 33574-4A.D | RTX-624 0.32(mm) |
| MB 200-137900/6 | | 12/07/2018 15:52 | 1 | 33574-05.D | RTX-624 0.32(mm) |
| 200-46353-2 DL | | 12/07/2018 16:45 | 10 | 33574-06.D | RTX-624 0.32(mm) |

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137447  Batch Start Date: 11/27/18 17:52  Batch Analyst: Mick, David G

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL1w 00197 | ATTO15CAL2w 00271 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137447/1 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137447/4 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 35 mL | |
| IC 200-137447/5 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 200 mL | |
| IC 200-137447/6 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 200 mL |
| IC 200-137447/7 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| ICIS 200-137447/8 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137447/9 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137447/10 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137447/11 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| ICV 200-137447/15 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15CAL3w 00206 | ATTO15CAL4w 00706 | ATTO15CAL5w 00076 | ATTO15CAL6w 00158 | ATTO15CAL7w 00079 | ATTO15GIS 00015 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137447/1 | | TO-15 | | | | | | | 20 mL |
| IC 200-137447/4 | | TO-15 | | | | | | | 20 mL |
| IC 200-137447/5 | | TO-15 | | | | | | | 20 mL |
| IC 200-137447/6 | | TO-15 | | | | | | | 20 mL |
| IC 200-137447/7 | | TO-15 | | 200 mL | | | | | 20 mL |
| ICIS 200-137447/8 | | TO-15 | | | 200 mL | | | | 20 mL |
| IC 200-137447/9 | | TO-15 | | | | 200 mL | | | 20 mL |
| IC 200-137447/10 | | TO-15 | | | | | 200 mL | | 20 mL |
| IC 200-137447/11 | | TO-15 | | | | | | 200 mL | 20 mL |
| ICV 200-137447/15 | | TO-15 | | | | | | | 20 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW 00787 | | | | | |
|---|---|---|---|---|---|---|---|---|---|

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137447  Batch Start Date: 11/27/18 17:52  Batch Analyst: Mick, David G

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW 00787 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137447/1 | | TO-15 | | | | | | | |
| IC 200-137447/4 | | TO-15 | | | | | | | |
| IC 200-137447/5 | | TO-15 | | | | | | | |
| IC 200-137447/6 | | TO-15 | | | | | | | |
| IC 200-137447/7 | | TO-15 | | | | | | | |
| ICIS 200-137447/8 | | TO-15 | | | | | | | |
| IC 200-137447/9 | | TO-15 | | | | | | | |
| IC 200-137447/10 | | TO-15 | | | | | | | |
| IC 200-137447/11 | | TO-15 | | | | | | | |
| ICV 200-137447/15 | | TO-15 | | 200 mL | | | | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137783  Batch Start Date: 12/04/18 18:02  Batch Analyst: Tober, Elizabeth R

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL1w 00200 | ATTO15CAL2w 00274 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137783/1 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137783/4 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 35 mL | |
| IC 200-137783/5 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 200 mL | |
| IC 200-137783/6 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 200 mL |
| IC 200-137783/7 | | TO-15 | | 1 | 1 | 100 mL | 200 mL | | |
| ICIS 200-137783/8 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137783/10 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137783/11 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |
| IC 200-137783/18 | | TO-15 | | 1 | 1 | 150 mL | 200 mL | | |
| ICV 200-137783/21 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15CAL3w 00210 | ATTO15CAL4w 00715 | ATTO15CAL6w 00161 | ATTO15CAL7w 00080 | ATTO15CISs 00010 | ATTO15LCSW 00790 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137783/1 | | TO-15 | | | | | | 20 mL | |
| IC 200-137783/4 | | TO-15 | | | | | | 20 mL | |
| IC 200-137783/5 | | TO-15 | | | | | | 20 mL | |
| IC 200-137783/6 | | TO-15 | | | | | | 20 mL | |
| IC 200-137783/7 | | TO-15 | | 200 mL | | | | 20 mL | |
| ICIS 200-137783/8 | | TO-15 | | | 200 mL | | | 20 mL | |
| IC 200-137783/10 | | TO-15 | | | | 200 mL | | 20 mL | |
| IC 200-137783/11 | | TO-15 | | | | | 200 mL | 20 mL | |
| IC 200-137783/18 | | TO-15 | | | | 150 mL | | 20 mL | |
| ICV 200-137783/21 | | TO-15 | | | | | | 20 mL | 200 mL |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137783  Batch Start Date: 12/04/18 18:02  Batch Analyst: Tober, Elizabeth R

Batch Method: TO-15  Batch End Date:

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137819  Batch Start Date: 12/05/18 14:11  Batch Analyst: Bunma, Arthit 1

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL4w 00706 | ATTO15GIS 00015 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137819/1 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| CCVIS 200-137819/3 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 200 mL | 20 mL |
| MB 200-137819/5 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| LCS 200-137819/6 | | TO-15 | | 1 | 1 | 44 mL | 200 mL | | 20 mL |
| 200-46353-A-1 | AA-1_20181120 | TO-15 | T | 1 | 1 | 326 mL | 200 mL | | 20 mL |
| 200-46353-A-2 | IA-1_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-3 | IA-2_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-4 | IA-3_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-5 | IA-4_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-6 | IA-5_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-7 | MP-1_20181120 | TO-15 | T | 1 | 1 | 22 mL | 200 mL | | 20 mL |
| 200-46353-A-8 | MP-2_20181120 | TO-15 | T | 1 | 1 | 24 mL | 200 mL | | 20 mL |
| 200-46353-A-9 | MP-3_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW 00791 | AnalysisComment | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137819/1 | | TO-15 | | | | | | | |
| CCVIS 200-137819/3 | | TO-15 | | | | | | | |
| MB 200-137819/5 | | TO-15 | | | | | | | |
| LCS 200-137819/6 | | TO-15 | | 200 mL | | | | | |
| 200-46353-A-1 | AA-1_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-2 | IA-1_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-3 | IA-2_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-4 | IA-3_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-5 | IA-4_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-6 | IA-5_20181120 | TO-15 | T | | Acetone exceeded calibration range. | | | | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137819  Batch Start Date: 12/05/18 14:11  Batch Analyst: Bunma, Arthit 1

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW 00791 | AnalysisComment | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 200-46353-A-7 | MP-1_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-8 | MP-2_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-9 | MP-3_20181120 | TO-15 | T | | | | | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137867  Batch Start Date: 12/06/18 14:19  Batch Analyst: Puangmalee, Kesanee 1

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL4w 00706 | ATTO15GIS 00015 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137867/1 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| CCVIS 200-137867/3 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 200 mL | 20 mL |
| LCS 200-137867/4 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| MB 200-137867/5 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-6 | IA-5_20181120 | TO-15 | T | 1 | 1 | 50 mL | 200 mL | | 20 mL |
| 200-46353-A-10 | MP-4_20181120 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-11 | MP-5_20181119 | TO-15 | T | 1 | 1 | 200 mL | 200 mL | | 20 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW 00791 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137867/1 | | TO-15 | | | | | | | |
| CCVIS 200-137867/3 | | TO-15 | | | | | | | |
| LCS 200-137867/4 | | TO-15 | | 200 mL | | | | | |
| MB 200-137867/5 | | TO-15 | | | | | | | |
| 200-46353-A-6 | IA-5_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-10 | MP-4_20181120 | TO-15 | T | | | | | | |
| 200-46353-A-11 | MP-5_20181119 | TO-15 | T | | | | | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137900  Batch Start Date: 12/07/18 11:07  Batch Analyst: Pham, Vu T

Batch Method: TO-15  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL4w 00715 | ATTO15CISs 00010 |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137900/1 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| CCVIS 200-137900/3 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | 200 mL | 20 mL |
| LCS 200-137900/5 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| MB 200-137900/6 | | TO-15 | | 1 | 1 | 200 mL | 200 mL | | 20 mL |
| 200-46353-A-2 | IA-1_20181120 | TO-15 | T | 1 | 1 | 20 mL | 200 mL | | 20 mL |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW 00790 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BFB 200-137900/1 | | TO-15 | | | | | | | |
| CCVIS 200-137900/3 | | TO-15 | | | | | | | |
| LCS 200-137900/5 | | TO-15 | | 200 mL | | | | | |
| MB 200-137900/6 | | TO-15 | | | | | | | |
| 200-46353-A-2 | IA-1_20181120 | TO-15 | T | | | | | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## Post-Sampling Air Canister Pressure Check Record

| Login # (w/ Location Code) | Date | Time (Military) | Lab BP ("Hg) | Lab Temp (°C) | Pressure Gauge ID | Analyst |
|---|---|---|---|---|---|---|
| 200-46353 | 11/23/18 | 15:15 | 30.4 | 21 | G20 | EEJ |

| Sampling Information and Return Equipment Check | Yes | N o | Comments |
|---|---|---|---|
| (1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present? | | X | |
| (2) Is the flow controller ID used for each canister recorded? | X | | |
| (3) MA MCP & NJ DKQP: Check return flow rate for flow controllers | | X | |
| (4) Is visible sign of damage to canister and/or flow controller (FC) present? | | X | |
| If damage observed, list equipment IDs and describe condition: | | | |
| | | | |

**Post-Sampling Return Pressure Check**

| Lab ID | Canister ID | Pressure[1] ("Hg) | Anomaly[2] (Y/N) | FC ID[3] | FC Check[4] Reference | FC Return (Y/N) | Can Cert Batch ID | Comments |
|---|---|---|---|---|---|---|---|---|
| 200-46353-A-1 | 4141 | -15.3 | Y | 4055 | 81/76 | Y | 5621-32939 | |
| 200-46353-A-2 | 3036 | -4.5 | N | 3294 | 81/77 | Y | 5621-32939 | |
| 200-46353-A-3 | 3424 | -6.2 | N | 3167 | 81/70 | Y | 5621-32939 | |
| 200-46353-A-4 | 5982 | -4.2 | N | 2807 | 81/77 | Y | 5621-32939 | |
| 200-46353-A-5 | 5017 | -5.9 | N | 3188 | 81/70 | Y | 5621-32939 | |
| 200-46353-A-6 | 5634 | -3.2 | N | 3664 | 81/77 | Y | 5621-32939 | |
| 200-46353-A-7 | 5447 | -16.5 | Y | 4500 | 81/69 | Y | 5621-32939 | |
| 200-46353-A-8 | 2512 | -4.8 | N | 2806 | 81/76 | Y | 5621-32939 | |
| 200-46353-A-9 | 4445 | -5.0 | N | 4212 | 81/76 | Y | 5621-32939 | |
| 200-46353-A-10 | 5154 | 0.0 | Y | 2772 | 81/70 | Y | 5621-32939 | |
| 200-46353-A-11 | 5621 | 0.0 | Y | 4193 | 81/77 | Y | 5621-32939 | |
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[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

# Summa Canister Dilution Worksheet

Client: AKRF Inc

Job No.: 200-46353-1
SDG No.: 200-46353-1

| Lab Sample ID | Canister Volume (L) | Preadjusted Pressure ("Hg) | Preadjusted Pressure (atm) | Preadjusted Volume (L) | Adjusted Pressure (psig) | Adjusted Pressure (atm) | Adjusted Volume (L) | Initial Volume (mL) | Dilution Factor | Final Dilution Factor | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200-46353-1 | 6 | -15.2 | 0.49 | 2.95 | -2.9 | 0.80 | 4.82 | | 1.63 | 1.63 | 12/05/18 21:01 | Pham, Vu T |
| 200-46353-7 | 6 | -16.2 | 0.46 | 2.75 | -4.0 | 0.73 | 4.37 | | 1.59 | 1.59 | 11/24/18 15:33 | Tice, Melissa L. |
| 200-46353-7 | 6 | -6.2 | 0.79 | 4.76 | 26.4 | 2.80 | 16.78 | | 3.53 | 5.60 | 12/05/18 21:11 | Pham, Vu T |
| 200-46353-8 | 6 | -4.6 | 0.85 | 5.08 | 14.9 | 2.01 | 12.08 | | 2.38 | 2.38 | 12/05/18 21:18 | Pham, Vu T |

**Formulae:**

Preadjusted Volume (L) = ( Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L ) / 29.92 "Hg
Adjusted Volume (L) = ( Adjusted Pressure (psig) + 14.7 psig * Vol L ) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

| System ID | Max DF# | # Cycles | Cleaning Date | Technician | Canister Size | | Certification Type: | |
|---|---|---|---|---|---|---|---|---|
| Oven 3/4 | 10 | 26 | 10/28/2018 | SML | 1L | 6L | Individual | Batch |

| Port | Can ID | Initial[1] (psia) | Final (psia) | Diff.[3] | Final ("Hg) | Initial Reading Gauge: | Date: | Time: | Tech: | Temp: | Final Reading Gauge: | Date: | Time: | Tech: | Temp: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5017 | .04 | .14 | .10 | 30.3 | G26 | 10/29/18 | 1400 | SL | 22.0 | G26 | 11/12/18 | 1545 | SL | 22.0 |
| 2 | 2512 | " | .21 | .17 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 3 | 3036 | " | .04 | 0 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 4 | 5154 | " | .04 | 0 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 5 | 3424 | " | .21 | .17 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 6 | 5634 | " | .04 | 0 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 7 | 4141 | " | .08 | .04 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 8 | 4445 | " | .04 | 0 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 9 | 5447 | " | .18 | .14 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 10 | 5982 | " | .04 | 0 | 30.3 | G26 | " | " | " | " | G26 | " | " | " | " |
| 11 | 5621 | .04 | .04 | 0 | 30.3 | G26 | 11/8/18 | 1450 | — | 22.0 | G26 | 11/12/12 | 1545 | — | 22.0 |
| 12 | 3483 | .04 | .04 | 0 | 30.3 | G26 | 10/29/18 | 1600 | SL | 22.0 | G26 | " | " | " | " |

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

**If time frame was not met, the PM must authorize shipment of canister** **PM Authorization** **Date:**

## Clean Canister Certification Analysis & Authorization of Release to Inventory

**Test Method:** ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

| Can ID | Date | Sequence | Analyst | Inventory Level 1 | 2 | 3 | 4 | Secondary Review: Limited | Review Date | Reviewer |
|---|---|---|---|---|---|---|---|---|---|---|
| 5621 | 10/31/18 | 32939 | BK | | XXXX | | | | 11/1/18 | ERT |

**Inventory Level 1:** Individual Canister Certification (TO15LL 0.01).

**Inventory Level 2:** Individual or Batch Certification (TO15 0.04 ppbv).

**Inventory Level 3:** Individual or Batch Certification (TO15 0.2 ppbv).

**Inventory Level 4:** Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

**Inventory Level Limited:** Canisters may only be used for certain projects.

**Comments:**







200-45925-A-11
5621
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 10/28/2018 12:00 AM 200-1217688

Loc: 200
45925
#11
A

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 200-32939-004.D

Lab ID: LCS 200-136163/4 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Propylene | 10.0 | 12.0 | 121 | 58-129 | |
| Dichlorodifluoromethane | 10.0 | 11.2 | 112 | 68-128 | |
| Freon 22 | 10.0 | 11.4 | 114 | 64-128 | |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 11.1 | 111 | 78-138 | |
| Chloromethane | 10.0 | 11.2 | 112 | 57-126 | |
| n-Butane | 10.0 | 12.6 | 126 | 56-130 | |
| Vinyl chloride | 10.0 | 10.1 | 101 | 62-125 | |
| 1,3-Butadiene | 10.0 | 10.1 | 101 | 59-125 | |
| Bromomethane | 10.0 | 9.45 | 95 | 68-128 | |
| Chloroethane | 10.0 | 9.60 | 96 | 65-125 | |
| Bromoethene(Vinyl Bromide) | 10.0 | 9.78 | 98 | 67-127 | |
| Trichlorofluoromethane | 10.0 | 10.0 | 100 | 67-127 | |
| Ethanol | 15.0 | 17.3 | 115 | 28-168 | |
| Freon TF | 10.0 | 8.37 | 84 | 68-128 | |
| 1,1-Dichloroethene | 10.0 | 8.57 | 86 | 67-127 | |
| Acetone | 10.0 | 9.10 | 91 | 64-136 | |
| Isopropyl alcohol | 10.0 | 10.4 | 104 | 55-124 | |
| Carbon disulfide | 10.0 | 10.9 | 109 | 81-141 | |
| 3-Chloropropene | 10.0 | 8.17 | 82 | 53-133 | |
| Methylene Chloride | 10.0 | 10.2 | 102 | 62-122 | |
| tert-Butyl alcohol | 10.0 | 10.7 | 107 | 64-124 | |
| Methyl tert-butyl ether | 10.0 | 8.68 | 87 | 67-127 | |
| trans-1,2-Dichloroethene | 10.0 | 11.5 | 115 | 72-132 | |
| n-Hexane | 10.0 | 10.9 | 109 | 71-131 | |
| 1,1-Dichloroethane | 10.0 | 9.72 | 97 | 66-126 | |
| Vinyl acetate | 10.0 | 9.49 | 95 | 62-130 | |
| Ethyl acetate | 10.0 | 8.07 | 81 | 75-135 | |
| Methyl Ethyl Ketone | 10.0 | 8.60 | 86 | 62-122 | |
| cis-1,2-Dichloroethene | 10.0 | 9.20 | 92 | 67-127 | |
| Chloroform | 10.0 | 9.41 | 94 | 69-129 | |
| Tetrahydrofuran | 10.0 | 11.4 | 114 | 61-136 | |
| 1,1,1-Trichloroethane | 10.0 | 10.7 | 107 | 70-130 | |
| Cyclohexane | 10.0 | 10.9 | 109 | 69-129 | |
| Carbon tetrachloride | 10.0 | 11.0 | 110 | 62-143 | |
| 2,2,4-Trimethylpentane | 10.0 | 11.3 | 113 | 67-127 | |
| Benzene | 10.0 | 9.44 | 94 | 67-127 | |
| 1,2-Dichloroethane | 10.0 | 10.8 | 108 | 67-132 | |
| n-Heptane | 10.0 | 13.1 | 131 | 62-130 | * |
| Trichloroethene | 10.0 | 10.2 | 102 | 68-128 | |
| Methyl methacrylate | 10.0 | 8.55 | 86 | 70-130 | |
| 1,2-Dichloropropane | 10.0 | 9.16 | 92 | 67-127 | |
| 1,4-Dioxane | 10.0 | 9.34 | 93 | 66-132 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 200-32939-004.D

Lab ID: LCS 200-136163/4 Client ID:

| COMPOUND | SPIKE ADDED (ppb v/v) | LCS CONCENTRATION (ppb v/v) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Bromodichloromethane | 10.0 | 10.6 | 106 | 69-129 | |
| cis-1,3-Dichloropropene | 10.0 | 9.27 | 93 | 70-130 | |
| methyl isobutyl ketone | 10.0 | 11.5 | 115 | 62-130 | |
| Toluene | 10.0 | 8.96 | 90 | 67-127 | |
| trans-1,3-Dichloropropene | 10.0 | 10.0 | 101 | 69-129 | |
| 1,1,2-Trichloroethane | 10.0 | 9.58 | 96 | 69-129 | |
| Tetrachloroethene | 10.0 | 10.0 | 100 | 70-130 | |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 10.5 | 105 | 61-127 | |
| Dibromochloromethane | 10.0 | 9.77 | 98 | 66-130 | |
| 1,2-Dibromoethane | 10.0 | 9.38 | 94 | 70-130 | |
| Chlorobenzene | 10.0 | 9.25 | 93 | 68-128 | |
| Ethylbenzene | 10.0 | 8.97 | 90 | 68-128 | |
| m,p-Xylene | 20.0 | 17.6 | 88 | 68-128 | |
| Xylene, o- | 10.0 | 8.98 | 90 | 67-127 | |
| Styrene | 10.0 | 8.76 | 88 | 68-128 | |
| Bromoform | 10.0 | 9.60 | 96 | 34-170 | |
| Cumene | 10.0 | 8.84 | 88 | 67-127 | |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.88 | 89 | 69-129 | |
| n-Propylbenzene | 10.0 | 9.32 | 93 | 67-127 | |
| 4-Ethyltoluene | 10.0 | 9.57 | 96 | 69-129 | |
| 1,3,5-Trimethylbenzene | 10.0 | 8.96 | 90 | 65-125 | |
| 2-Chlorotoluene | 10.0 | 9.97 | 100 | 67-127 | |
| tert-Butylbenzene | 10.0 | 8.95 | 90 | 63-125 | |
| 1,2,4-Trimethylbenzene | 10.0 | 9.29 | 93 | 65-125 | |
| sec-Butylbenzene | 10.0 | 8.98 | 90 | 66-126 | |
| 4-Isopropyltoluene | 10.0 | 9.35 | 94 | 67-129 | |
| 1,3-Dichlorobenzene | 10.0 | 9.52 | 95 | 67-127 | |
| 1,4-Dichlorobenzene | 10.0 | 9.22 | 92 | 66-126 | |
| Benzyl chloride | 10.0 | 8.11 | 81 | 54-135 | |
| n-Butylbenzene | 10.0 | 9.41 | 94 | 67-127 | |
| 1,2-Dichlorobenzene | 10.0 | 9.20 | 92 | 67-127 | |
| 1,2,4-Trichlorobenzene | 10.0 | 8.88 | 89 | 59-126 | |
| Hexachlorobutadiene | 10.0 | 8.05 | 80 | 62-130 | |
| Naphthalene | 10.0 | 8.34 | 83 | 50-121 | |

# Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab File ID: 200-32939-005.D Lab Sample ID: MB 200-136163/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHG.i Date Analyzed: 10/31/2018 15:37

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 200-136163/4 | 200-32939-004.D | 10/31/2018 14:46 |
| 5621 | 200-45925-11 | 200-32939-018.D | 11/01/2018 02:29 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-45925-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-136163/5

Matrix: Air | Lab File ID: 200-32939-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/31/2018 15:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 136163 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 115-07-1 | Propylene | 5.0 | U | 5.0 | 5.0 |
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U | 0.50 | 0.50 |
| 75-45-6 | Freon 22 | 0.50 | U | 0.50 | 0.50 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| 74-87-3 | Chloromethane | 0.50 | U | 0.50 | 0.50 |
| 106-97-8 | n-Butane | 0.50 | U | 0.50 | 0.50 |
| 75-01-4 | Vinyl chloride | 0.20 | U | 0.20 | 0.20 |
| 106-99-0 | 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| 74-83-9 | Bromomethane | 0.20 | U | 0.20 | 0.20 |
| 75-00-3 | Chloroethane | 0.50 | U | 0.50 | 0.50 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| 75-69-4 | Trichlorofluoromethane | 0.20 | U | 0.20 | 0.20 |
| 64-17-5 | Ethanol | 5.0 | U | 5.0 | 5.0 |
| 76-13-1 | Freon TF | 0.20 | U | 0.20 | 0.20 |
| 75-35-4 | 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| 67-64-1 | Acetone | 5.0 | U | 5.0 | 5.0 |
| 67-63-0 | Isopropyl alcohol | 5.0 | U | 5.0 | 5.0 |
| 75-15-0 | Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| 107-05-1 | 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.50 | 0.50 |
| 75-65-0 | tert-Butyl alcohol | 5.0 | U | 5.0 | 5.0 |
| 1634-04-4 | Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| 110-54-3 | n-Hexane | 0.20 | U | 0.20 | 0.20 |
| 75-34-3 | 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| 108-05-4 | Vinyl acetate | 5.0 | U | 5.0 | 5.0 |
| 141-78-6 | Ethyl acetate | 5.0 | U | 5.0 | 5.0 |
| 78-93-3 | Methyl Ethyl Ketone | 0.50 | U | 0.50 | 0.50 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| 540-59-0 | 1,2-Dichloroethene, Total | 0.40 | U | 0.40 | 0.40 |
| 67-66-3 | Chloroform | 0.20 | U | 0.20 | 0.20 |
| 109-99-9 | Tetrahydrofuran | 5.0 | U | 5.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| 110-82-7 | Cyclohexane | 0.20 | U | 0.20 | 0.20 |
| 56-23-5 | Carbon tetrachloride | 0.20 | U | 0.20 | 0.20 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | 0.20 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-45925-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-136163/5

Matrix: Air | Lab File ID: 200-32939-005.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/31/2018 15:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 136163 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 0.20 | U | 0.20 | 0.20 |
| 107-06-2 | 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| 142-82-5 | n-Heptane | 0.20 | U | 0.20 | 0.20 |
| 79-01-6 | Trichloroethene | 0.20 | U | 0.20 | 0.20 |
| 80-62-6 | Methyl methacrylate | 0.50 | U | 0.50 | 0.50 |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| 123-91-1 | 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 108-10-1 | methyl isobutyl ketone | 0.50 | U | 0.50 | 0.50 |
| 108-88-3 | Toluene | 0.20 | U | 0.20 | 0.20 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| 127-18-4 | Tetrachloroethene | 0.20 | U | 0.20 | 0.20 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| 124-48-1 | Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 106-93-4 | 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| 108-90-7 | Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 100-41-4 | Ethylbenzene | 0.20 | U | 0.20 | 0.20 |
| 179601-23-1 | m,p-Xylene | 0.50 | U | 0.50 | 0.50 |
| 95-47-6 | Xylene, o- | 0.20 | U | 0.20 | 0.20 |
| 1330-20-7 | Xylene (total) | 0.70 | U | 0.70 | 0.70 |
| 100-42-5 | Styrene | 0.20 | U | 0.20 | 0.20 |
| 75-25-2 | Bromoform | 0.20 | U | 0.20 | 0.20 |
| 98-82-8 | Cumene | 0.20 | U | 0.20 | 0.20 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 103-65-1 | n-Propylbenzene | 0.20 | U | 0.20 | 0.20 |
| 622-96-8 | 4-Ethyltoluene | 0.20 | U | 0.20 | 0.20 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.20 |
| 95-49-8 | 2-Chlorotoluene | 0.20 | U | 0.20 | 0.20 |
| 98-06-6 | tert-Butylbenzene | 0.20 | U | 0.20 | 0.20 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | 0.20 |
| 135-98-8 | sec-Butylbenzene | 0.20 | U | 0.20 | 0.20 |
| 99-87-6 | 4-Isopropyltoluene | 0.20 | U | 0.20 | 0.20 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-45925-1

SDG No.:

Client Sample ID:  Lab Sample ID: MB 200-136163/5

Matrix: Air  Lab File ID: 200-32939-005.D

Analysis Method: TO-15  Date Collected:

Sample wt/vol: 200(mL)  Date Analyzed: 10/31/2018 15:37

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 136163  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 0.20 | U | 0.20 | 0.20 |
| 104-51-8 | n-Butylbenzene | 0.20 | U | 0.20 | 0.20 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 87-68-3 | Hexachlorobutadiene | 0.20 | U | 0.20 | 0.20 |
| 91-20-3 | Naphthalene | 0.50 | U | 0.50 | 0.50 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 31-Oct-2018 15:37:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0032939-005
Operator ID: wrd Instrument ID: CHG.i

Method: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 01-Nov-2018 09:52:35 Calib Date: 26-Sep-2018 14:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20180925-32354.b\200-32354-022.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: puangmaleek Date: 01-Nov-2018 09:52:34

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 3.096 | | | | | ND | U |
| 2 Dichlorodifluoromethane | 85 | | 3.149 | | | | | ND | U |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | | ND | U |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.347 | | | | | ND | U |
| 5 Chloromethane | 50 | | 3.460 | | | | | ND | U |
| 6 Butane | 43 | | 3.609 | | | | | ND | U |
| 7 Vinyl chloride | 62 | | 3.641 | | | | | ND | |
| 8 Butadiene | 54 | | 3.695 | | | | | ND | |
| 10 Bromomethane | 94 | | 4.214 | | | | | ND | |
| 11 Chloroethane | 64 | | 4.385 | | | | | ND | |
| 12 2-Methylbutane | 43 | | 4.444 | | | | | ND | U |
| 13 Vinyl bromide | 106 | | 4.695 | | | | | ND | |
| 14 Trichlorofluoromethane | 101 | | 4.770 | | | | | ND | |
| 16 Pentane | 43 | | 4.872 | | | | | ND | U |
| 17 Ethanol | 45 | | 5.209 | | | | | ND | |
| 18 Ethyl ether | 59 | | 5.289 | | | | | ND | |
| 19 Acrolein | 56 | | 5.605 | | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.615 | | | | | ND | |
| 21 1,1-Dichloroethene | 96 | | 5.669 | | | | | ND | |
| 22 Acetone | 43 | | 5.867 | | | | | ND | |
| 23 Carbon disulfide | 76 | 6.027 | 6.027 | 0.000 | 48 | 611 | | 0.008722 | 7M |
| 24 Isopropyl alcohol | 45 | | 6.102 | | | | | ND | U |
| 25 3-Chloro-1-propene | 41 | | 6.322 | | | | | ND | U |
| 26 Acetonitrile | 41 | | 6.434 | | | | | ND | |
| 27 Methylene Chloride | 49 | 6.578 | 6.578 | 0.010 | 18 | 678 | | 0.0279 | 7M |
| 28 2-Methyl-2-propanol | 59 | | 6.782 | | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.948 | | | | | ND | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.964 | | | | | ND | |
| 32 Acrylonitrile | 53 | | 7.092 | | | | | ND | |
| 33 Hexane | 57 | | 7.301 | | | | | ND | |
| 34 1,1-Dichloroethane | 63 | | 7.739 | | | | | ND | |
| 35 Vinyl acetate | 43 | | 7.803 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 37 cis-1,2-Dichloroethene | 96 | | 8.745 | | | | | ND | U |
| 38 2-Butanone (MEK) | 72 | | 8.804 | | | | | ND | |
| 39 Ethyl acetate | 88 | | 8.841 | | | | | ND | |
| * 40 Chlorobromomethane | 128 | 9.168 | 9.173 | -0.005 | 81 | 306593 | 10.0 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.226 | | | | | ND | |
| 42 Chloroform | 83 | | 9.291 | | | | | ND | |
| 43 Cyclohexane | 84 | | 9.547 | | | | | ND | |
| 44 1,1,1-Trichloroethane | 97 | | 9.564 | | | | | ND | |
| S 30 1,2-Dichloroethene, Total | 61 | | 9.665 | | | | | ND | |
| 45 Carbon tetrachloride | 117 | | 9.799 | | | | | ND | |
| 46 Isooctane | 57 | | 10.216 | | | | | ND | |
| 47 Benzene | 78 | | 10.238 | | | | | ND | U |
| 48 1,2-Dichloroethane | 62 | | 10.403 | | | | | ND | |
| 49 n-Heptane | 43 | | 10.585 | | | | | ND | |
| * 50 1,4-Difluorobenzene | 114 | 11.040 | 11.040 | 0.000 | 95 | 1398299 | 10.0 | 10.0 | |
| 52 n-Butanol | 56 | | 11.473 | | | | | ND | |
| 53 Trichloroethene | 95 | | 11.505 | | | | | ND | |
| 54 1,2-Dichloropropane | 63 | | 12.046 | | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.228 | | | | | ND | |
| A 51 GRO | 1 | 12.270 | (4.434-20.107) | | 0 | 765175 | | 0 | |
| 57 Dibromomethane | 174 | 12.292 | 12.292 | 0.000 | 11 | 625 | | 0.0149 | |
| 56 1,4-Dioxane | 88 | | 12.297 | | | | | ND | |
| 58 Dichlorobromomethane | 83 | | 12.581 | | | | | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.496 | | | | | ND | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.811 | | | | | ND | |
| A 63 Toluene Range | 92 | 14.084 | (14.044-14.124) | | 0 | 34812 | | NC | |
| 65 Toluene | 92 | | 14.084 | | | | | ND | U |
| A 62 C8 Range | 1 | 14.176 | (14.131-14.220) | | 0 | 4067 | | NC | |
| 64 n-Octane | 43 | | 14.170 | | | | | ND | |
| A 59 TVOC as Toluene | 92 | 14.172 | (3.086-25.259) | | 0 | 911131 | | 0 | |
| 66 trans-1,3-Dichloropropene | 75 | | 14.678 | | | | | ND | |
| 67 1,1,2-Trichloroethane | 83 | | 15.047 | | | | | ND | |
| 68 Tetrachloroethene | 166 | | 15.165 | | | | | ND | U |
| 69 2-Hexanone | 43 | | 15.528 | | | | | ND | U |
| 71 Chlorodibromomethane | 129 | | 15.807 | | | | | ND | U |
| 72 Ethylene Dibromide | 107 | | 16.069 | | | | | ND | U |
| * 74 Chlorobenzene-d5 | 117 | 16.984 | 16.984 | 0.000 | 88 | 1131514 | 10.0 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.042 | | | | | ND | U |
| 76 Ethylbenzene | 91 | | 17.208 | | | | | ND | U |
| 77 n-Nonane | 57 | | 17.369 | | | | | ND | |
| 78 m-Xylene & p-Xylene | 106 | | 17.465 | | | | | ND | |
| 79 o-Xylene | 106 | | 18.316 | | | | | ND | |
| 80 Styrene | 104 | | 18.369 | | | | | ND | |
| 81 Bromoform | 173 | | 18.808 | | | | | ND | |
| 82 Isopropylbenzene | 105 | | 19.065 | | | | | ND | U |
| * 83 4-Bromofluorobenzene | 95 | 19.466 | 19.466 | 0.000 | 92 | 715771 | 10.0 | 10.0 | |
| S 73 Xylenes, Total | 106 | | 19.600 | | | | | ND | |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 19.787 | | | | | ND | |
| 85 N-Propylbenzene | 91 | | 19.867 | | | | | ND | U |
| 86 1,2,3-Trichloropropane | 75 | | 19.883 | | | | | ND | |
| 89 2-Chlorotoluene | 91 | | 20.070 | | | | | ND | U |
| 88 4-Ethyltoluene | 105 | | 20.076 | | | | | ND | Ua |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 87 n-Decane | 57 | | 20.097 | | | | | ND | |
| 90 1,3,5-Trimethylbenzene | 105 | | 20.193 | | | | | ND | U |
| 91 Alpha Methyl Styrene | 118 | | 20.584 | | | | | ND | U |
| 92 tert-Butylbenzene | 119 | | 20.712 | | | | | ND | U |
| 93 1,2,4-Trimethylbenzene | 105 | | 20.814 | | | | | ND | U |
| 94 sec-Butylbenzene | 105 | | 21.060 | | | | | ND | U |
| 95 4-Isopropyltoluene | 119 | | 21.279 | | | | | ND | U |
| 96 1,3-Dichlorobenzene | 146 | | 21.290 | | | | | ND | U |
| 97 1,4-Dichlorobenzene | 146 | | 21.435 | | | | | ND | U |
| 98 Benzyl chloride | 91 | | 21.638 | | | | | ND | U |
| 100 n-Butylbenzene | 91 | | 21.868 | | | | | ND | U |
| 99 Undecane | 57 | | 21.921 | | | | | ND | U |
| 101 1,2-Dichlorobenzene | 146 | 21.969 | 21.964 | 0.005 | 3 | 919 | | 0.0136 | |
| 102 Dodecane | 57 | | 23.457 | | | | | ND | U |
| 103 1,2,4-Trichlorobenzene | 180 | 24.355 | 24.355 | 0.000 | 1 | 1455 | | 0.0363 | |
| 104 Hexachlorobutadiene | 225 | | 24.548 | | | | | ND | U |
| 105 Naphthalene | 128 | 24.805 | 24.799 | 0.006 | 5 | 3305 | | 0.0462 | |
| 106 1,2,3-Trichlorobenzene | 180 | | 25.249 | | | | | ND | U |

## QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

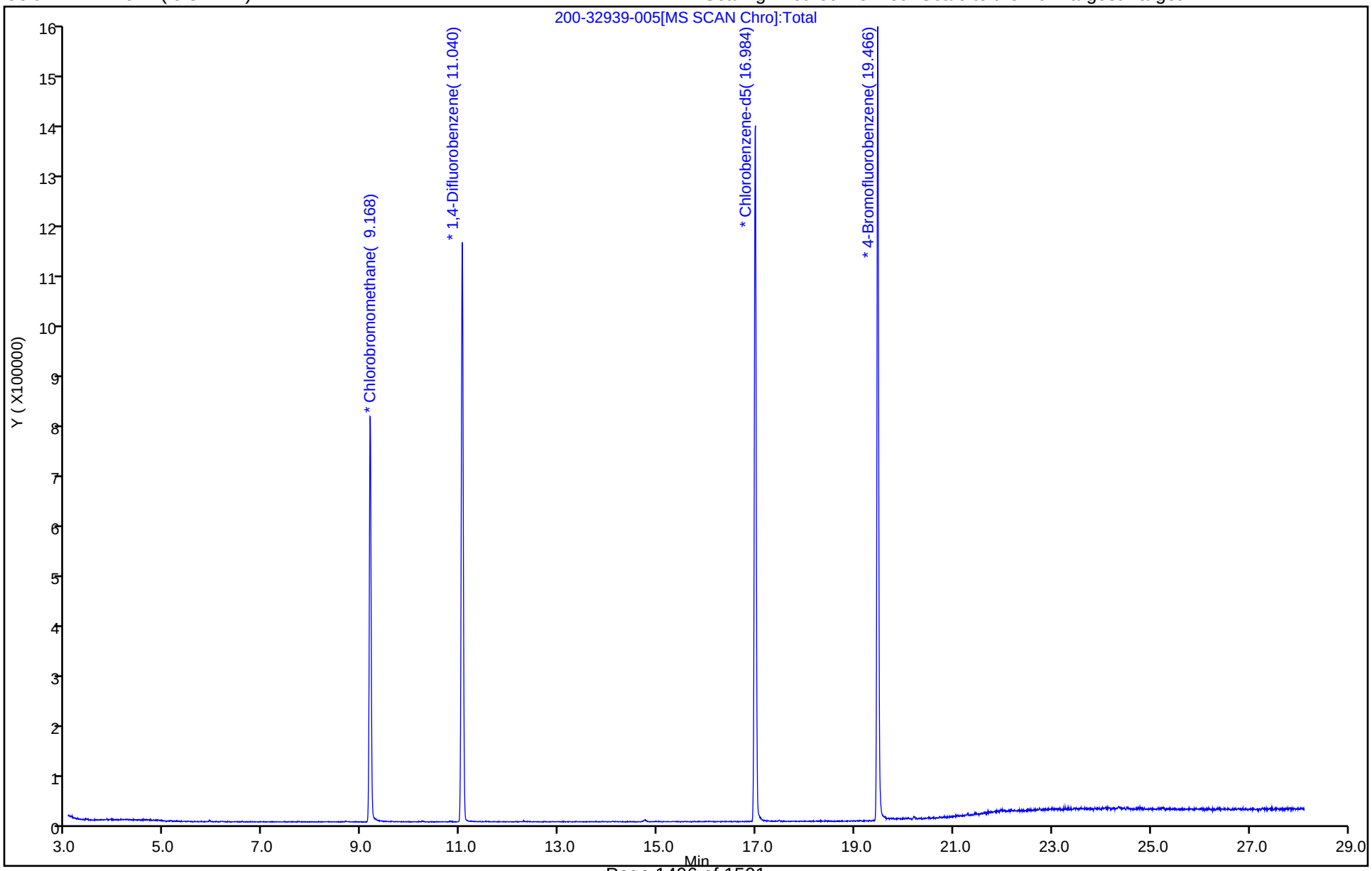
Report Date: 01-Nov-2018 09:52:36 Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | Operator ID: | wrd |
| Lims ID: | mb | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | ALS Bottle#: | 4 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



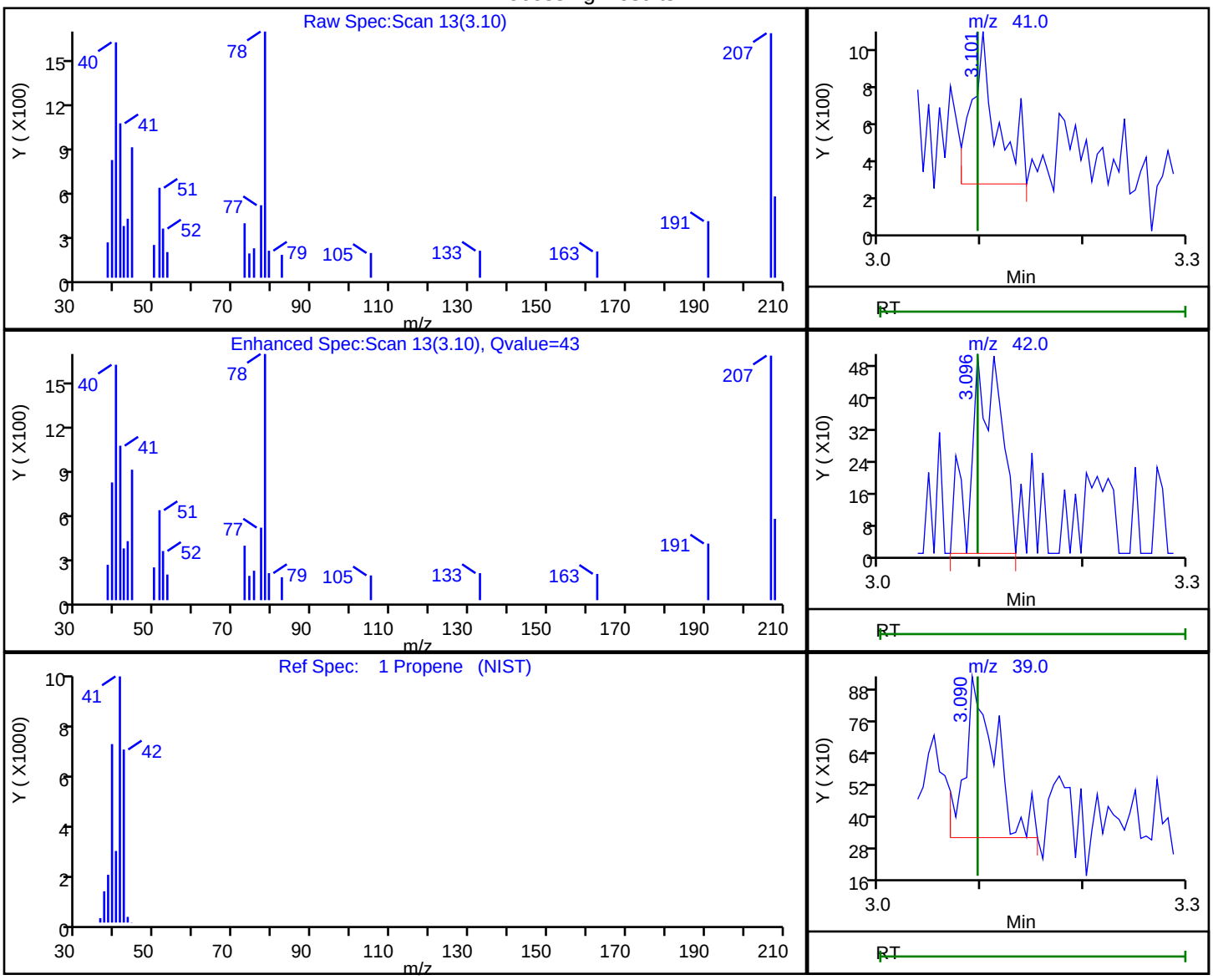
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 1 Propene, CAS: 115-07-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.10 | 41.00 | 1296 | 0.071166 |
| 3.10 | 42.00 | 1015 | |
| 3.09 | 39.00 | 1259 | |

Reviewer: puangmaleek, 01-Nov-2018 09:48:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

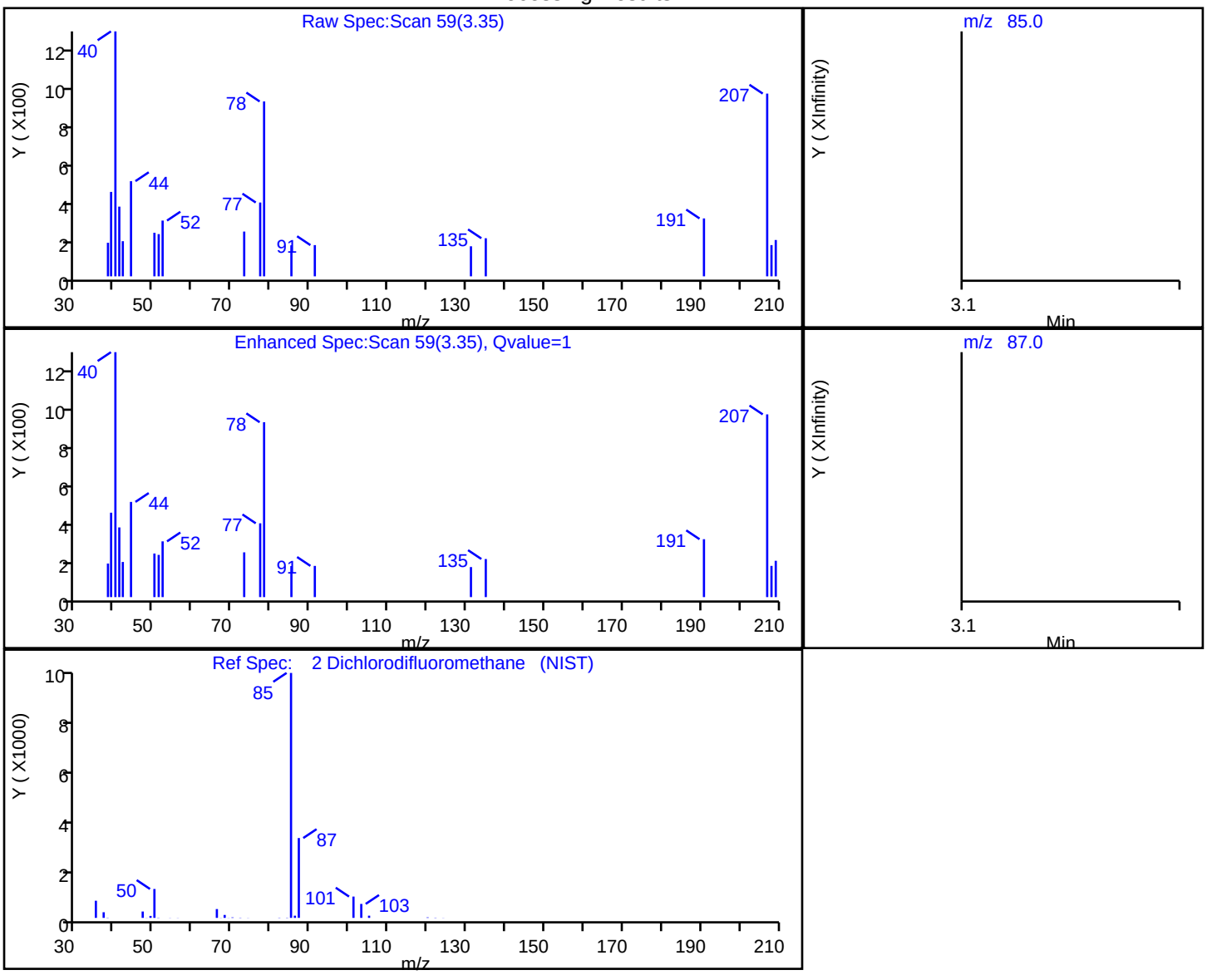
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.35 | 85.00 | 51 | 0.000482 |
| 3.15 | 87.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:48:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

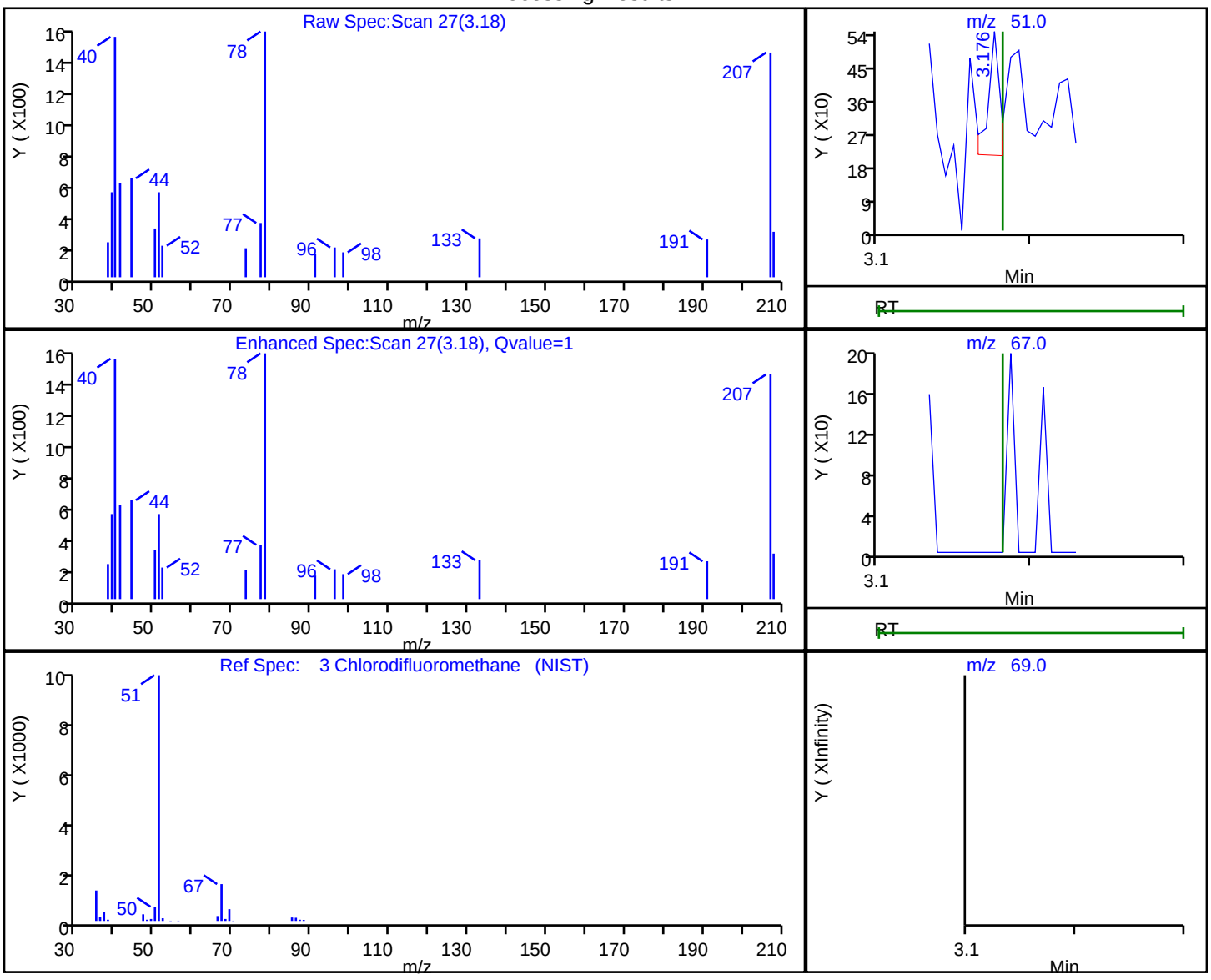
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.18 | 51.00 | 177 | 0.003892 |
| 3.18 | 67.00 | 0 | |
| 3.18 | 69.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:48:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

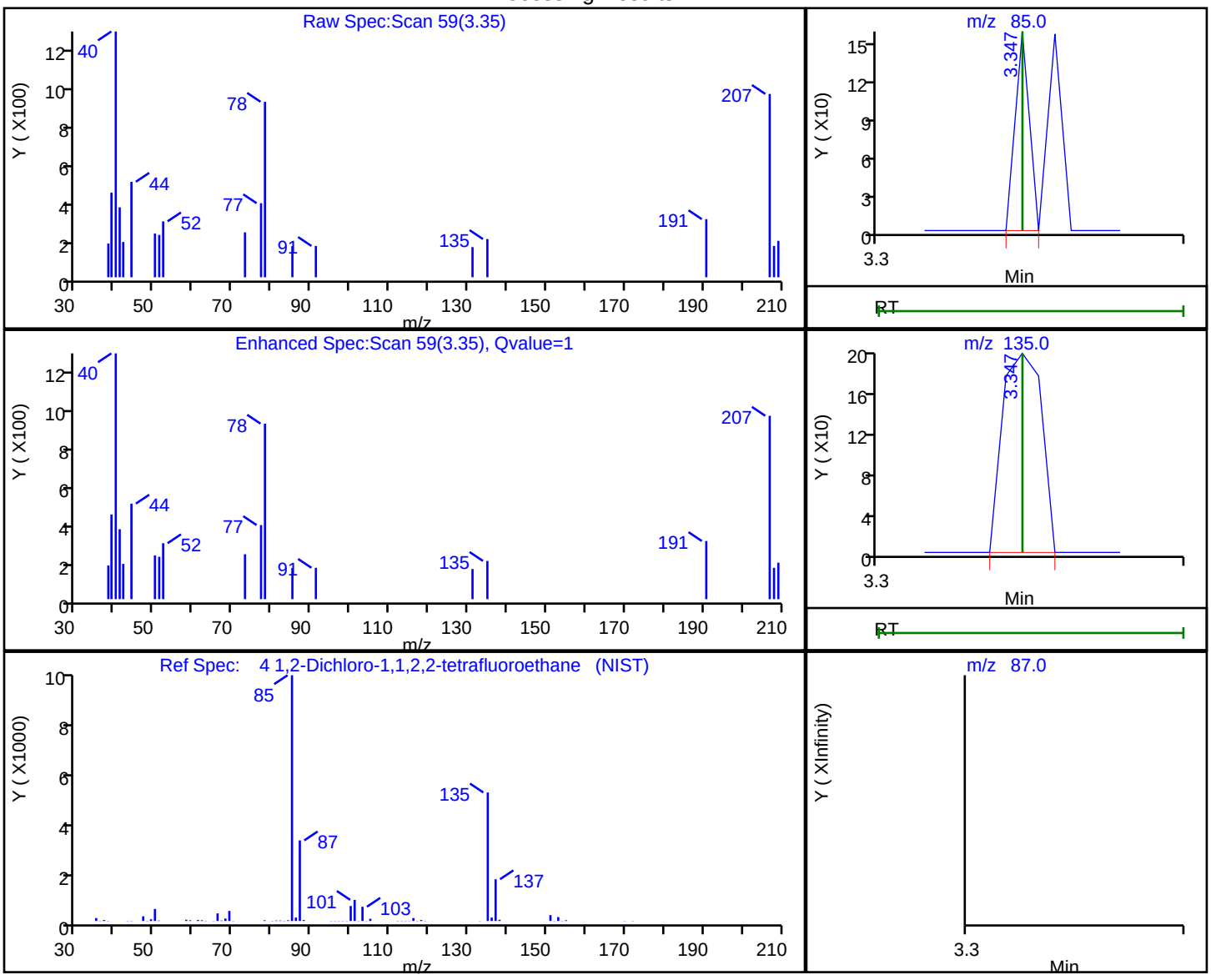
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.35 | 85.00 | 51 | 0.000633 |
| 3.35 | 135.00 | 173 | |
| 3.35 | 87.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:48:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

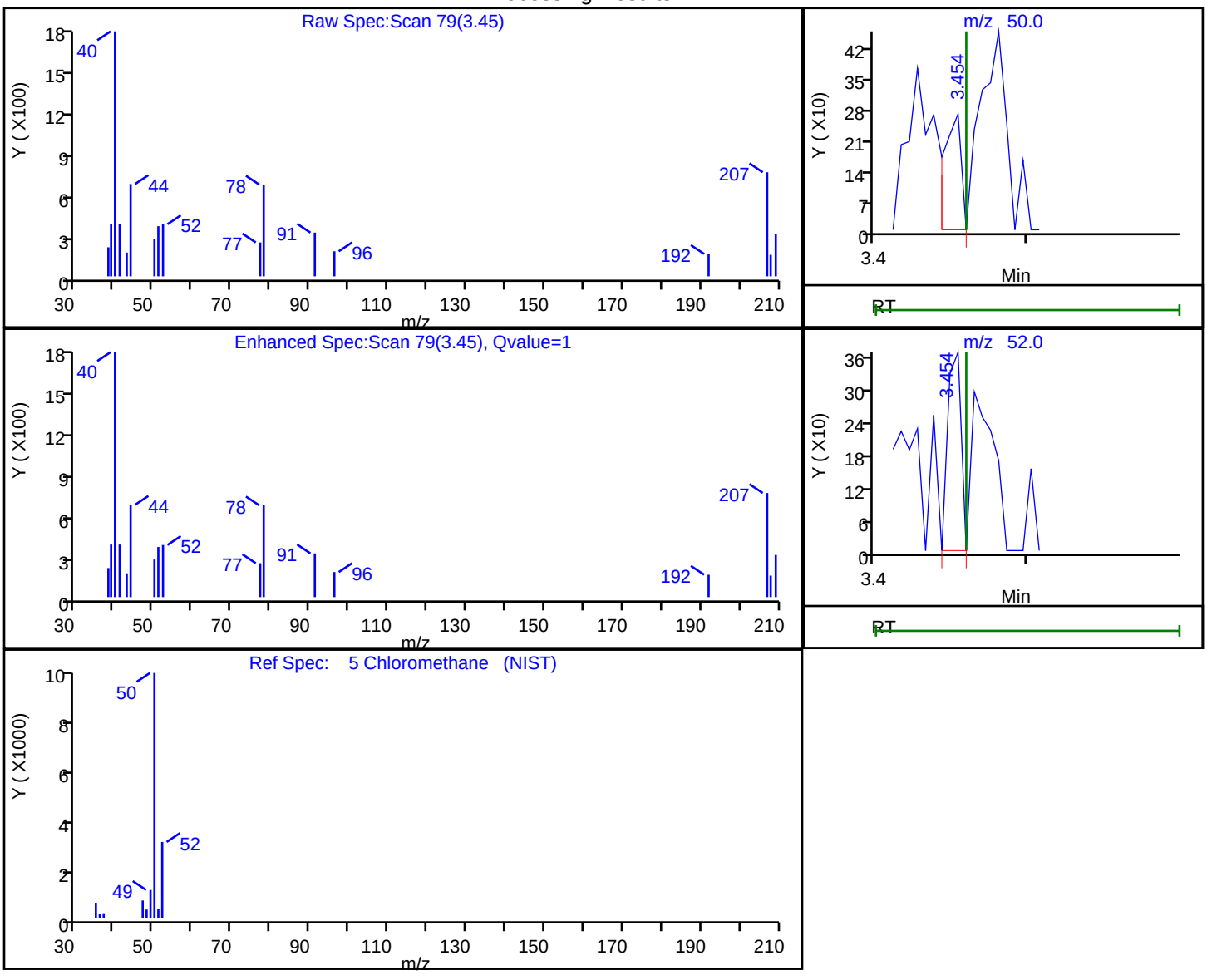
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 5 Chloromethane, CAS: 74-87-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.45 | 50.00 | 208 | 0.009846 |
| 3.45 | 52.00 | 222 | |

Reviewer: puangmaleek, 01-Nov-2018 09:48:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

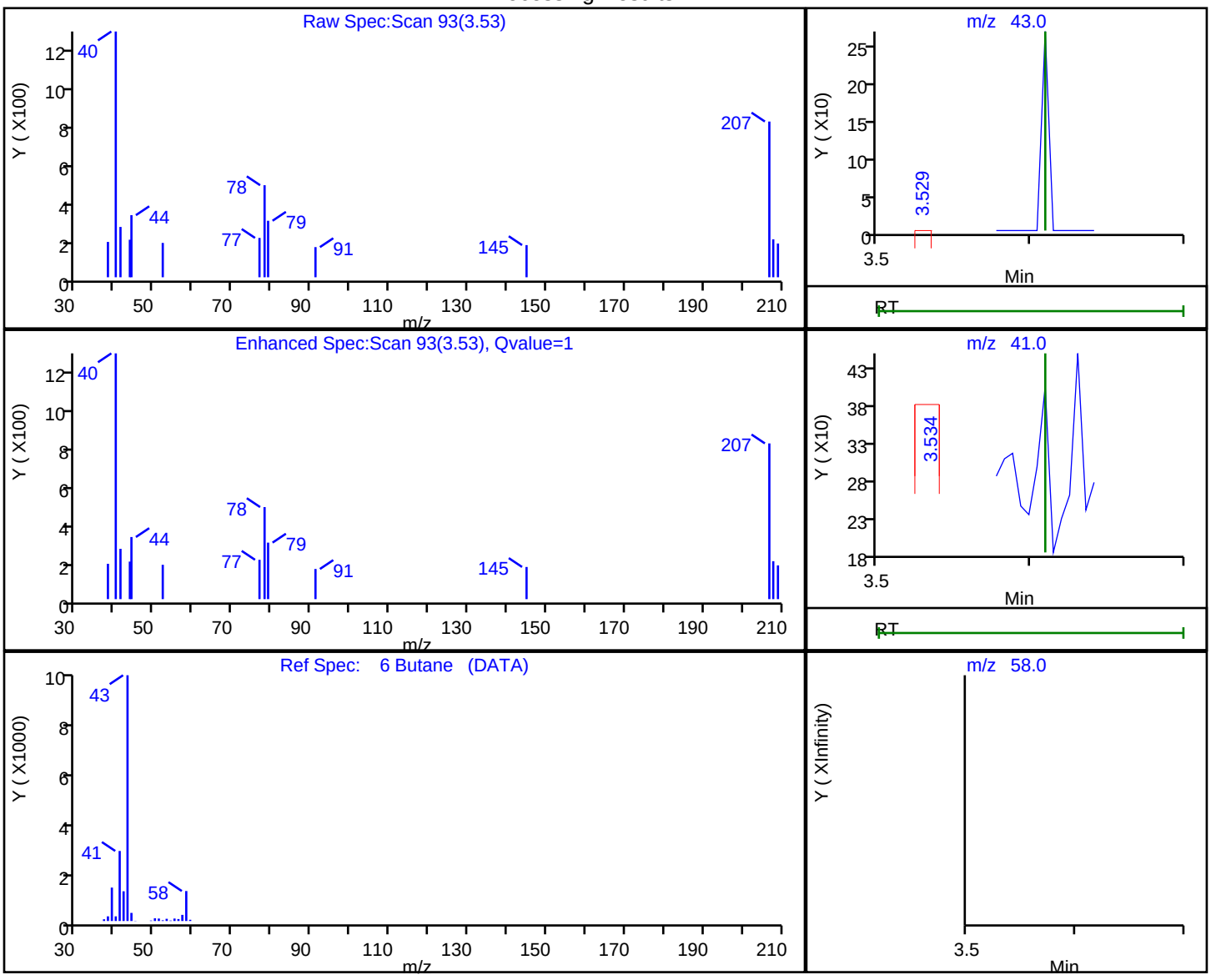
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.53 | 43.00 | 60 | 0.002135 |
| 3.53 | 41.00 | 241 | |
| 3.61 | 58.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:48:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

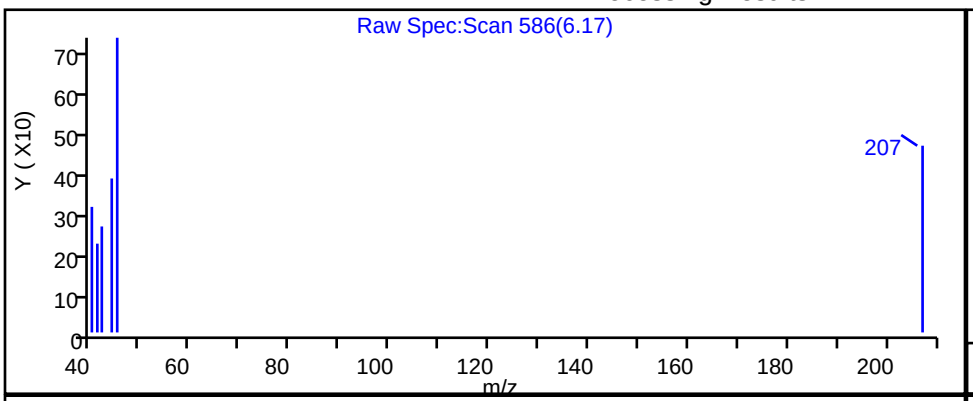
User Disabled Compound Report

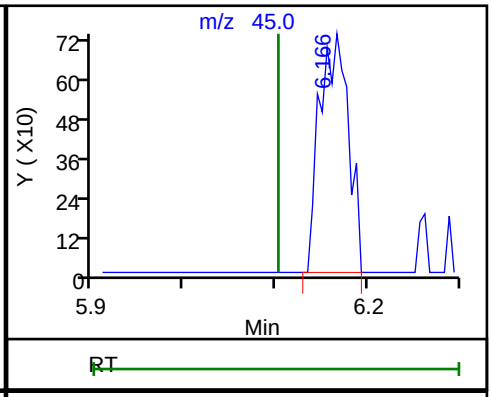
TestAmerica Burlington

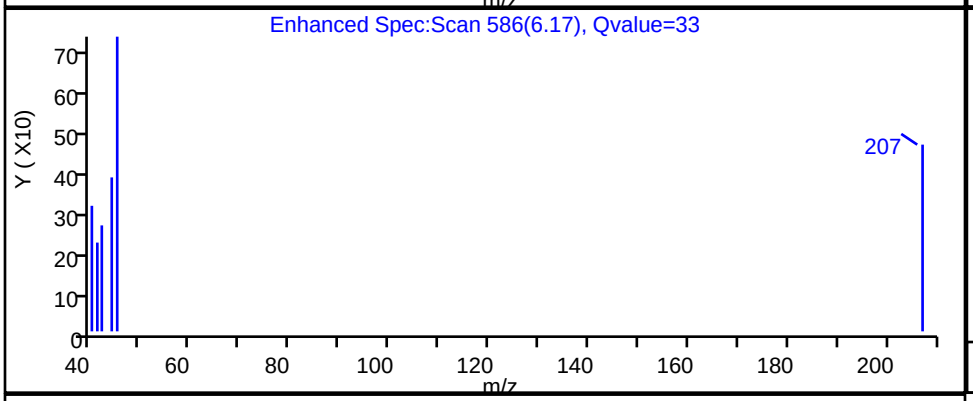
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

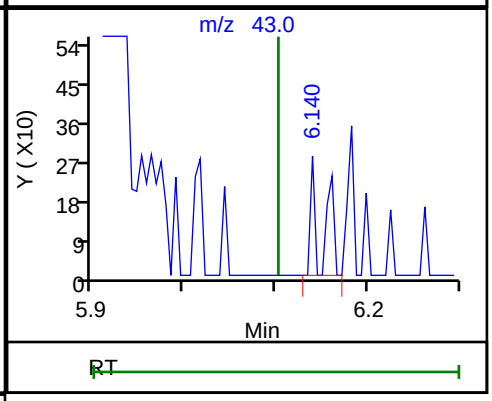
## 24 Isopropyl alcohol, CAS: 67-63-0

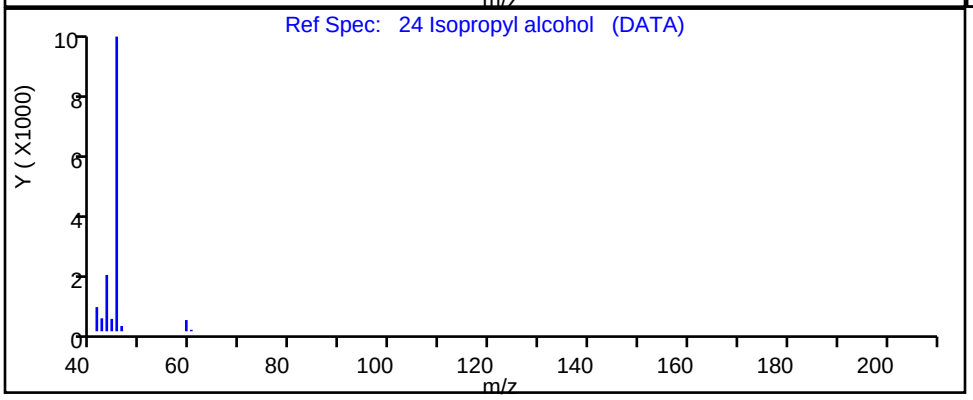
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.17 | 45.00 | 1618 | 0.065534 |
| 6.14 | 43.00 | 216 | |

Reviewer: puangmaleek, 01-Nov-2018 09:49:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

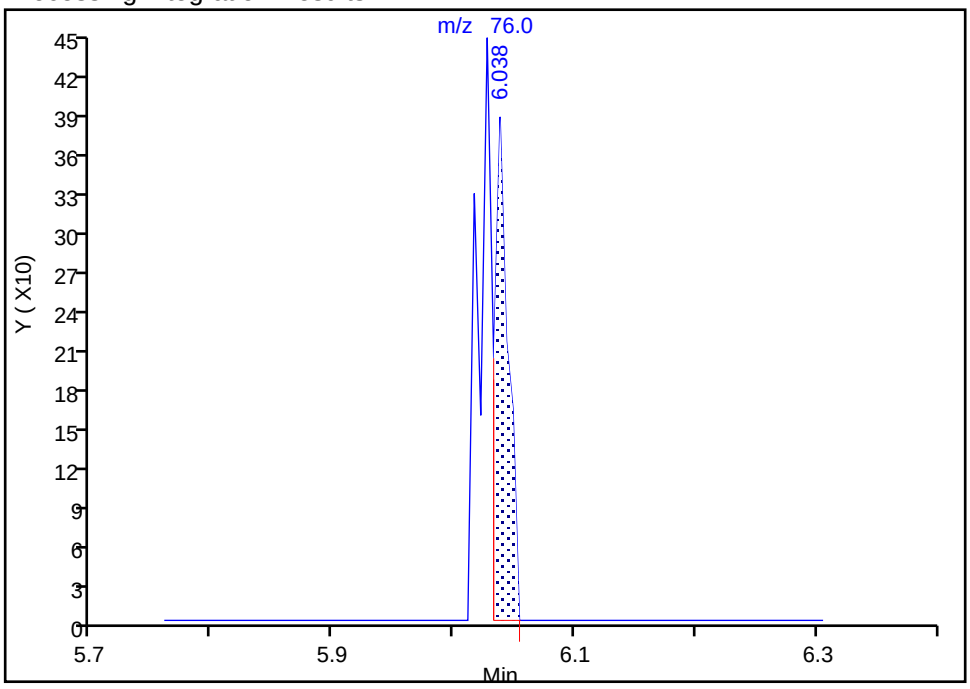
Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

## 23 Carbon disulfide, CAS: 75-15-0

Signal: 1

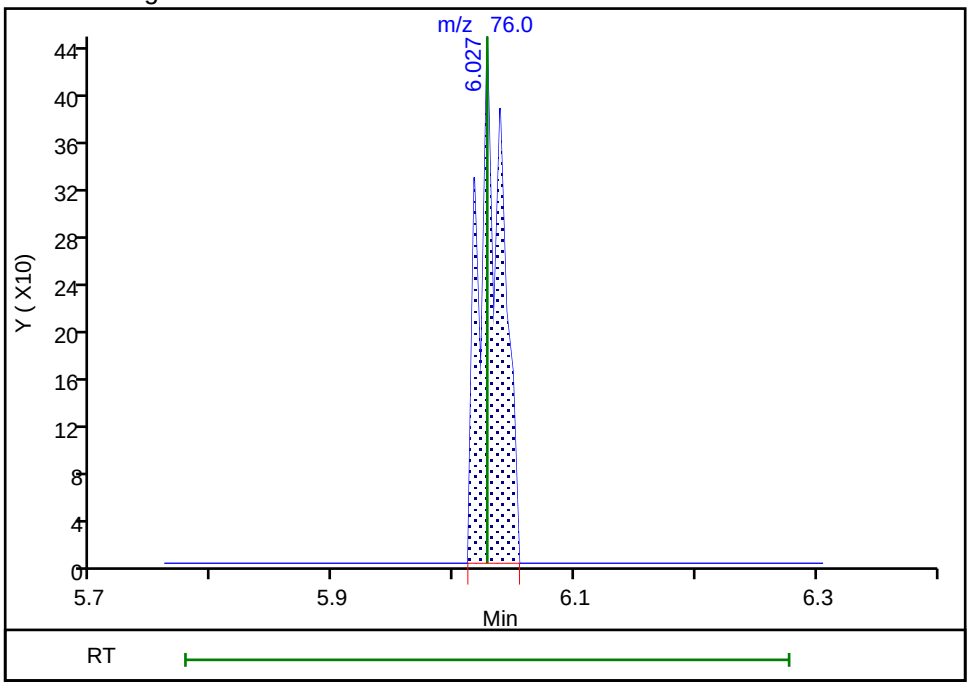
Processing Integration Results

RT: 6.04
Area: 311
Amount: 0.004439
Amount Units: ppb v/v




Manual Integration Results

RT: 6.03
Area: 611
Amount: 0.008722
Amount Units: ppb v/v




Reviewer: puangmaleek, 01-Nov-2018 09:49:07
Audit Action: Manually Integrated Audit Reason: Assign Peak

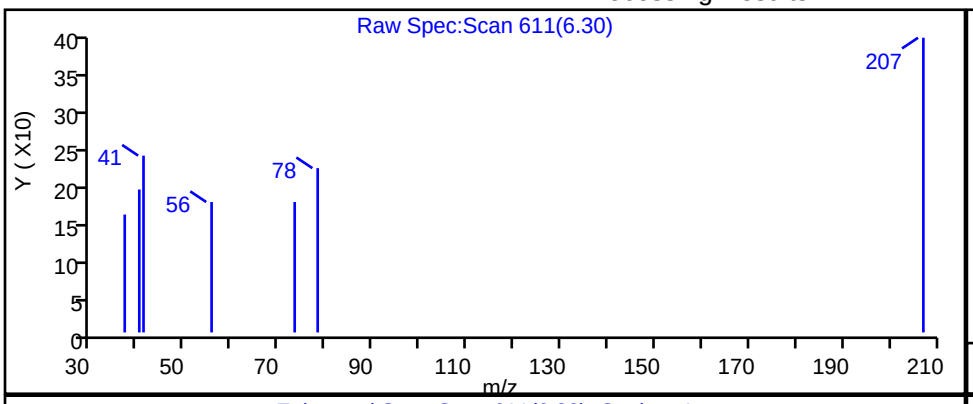
User Disabled Compound Report

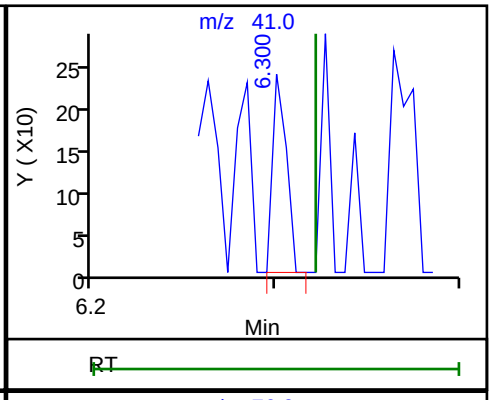
TestAmerica Burlington

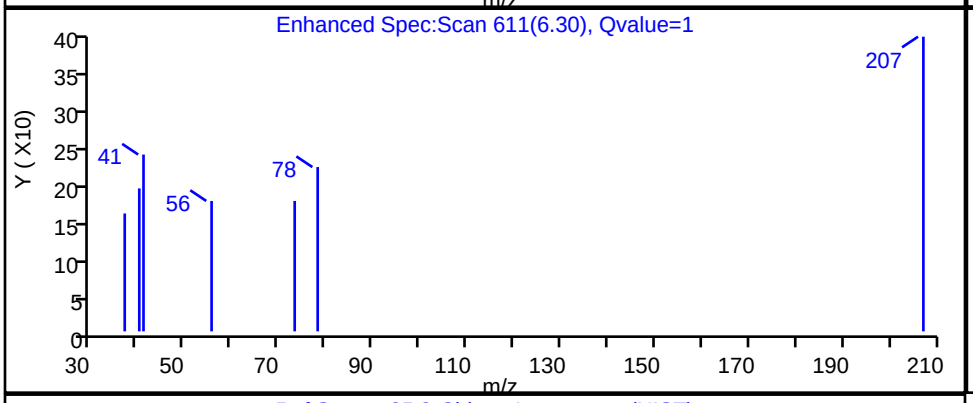
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

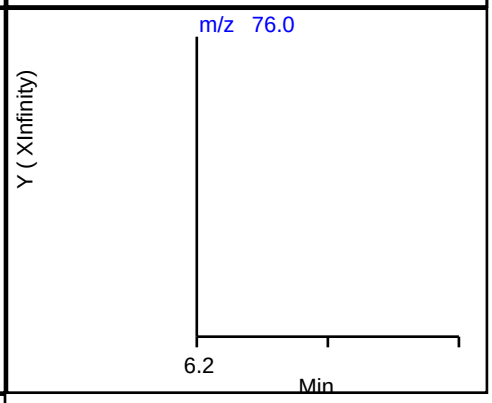
## 25 3-Chloro-1-propene, CAS: 107-05-1

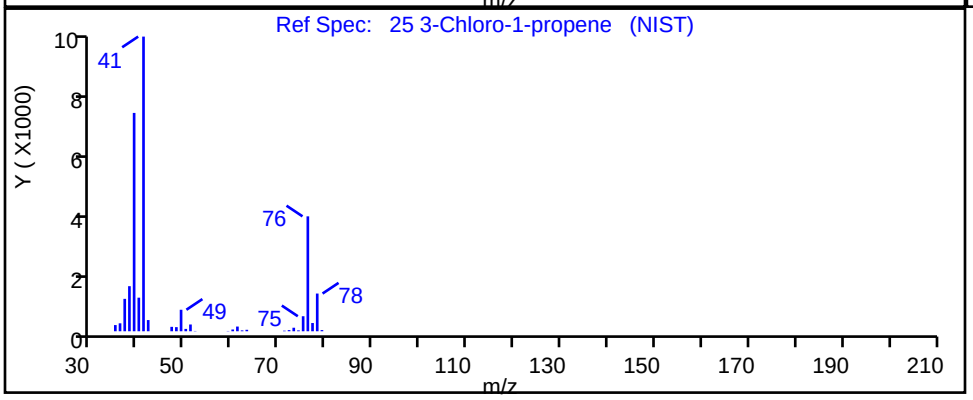
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.30 | 41.00 | 126 | 0.006120 |
| 6.32 | 76.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:49:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

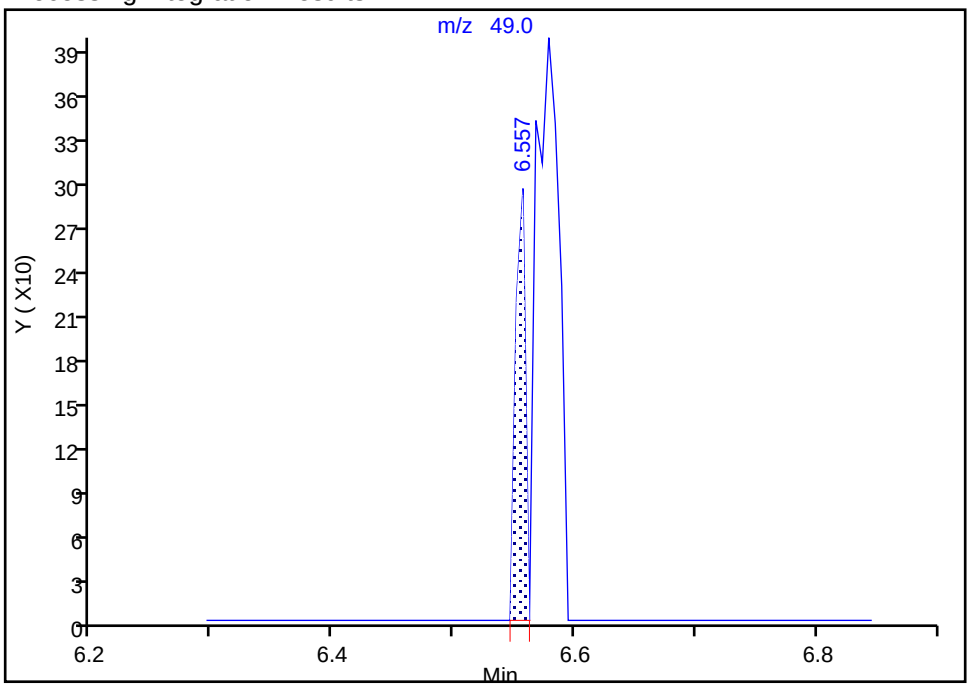
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

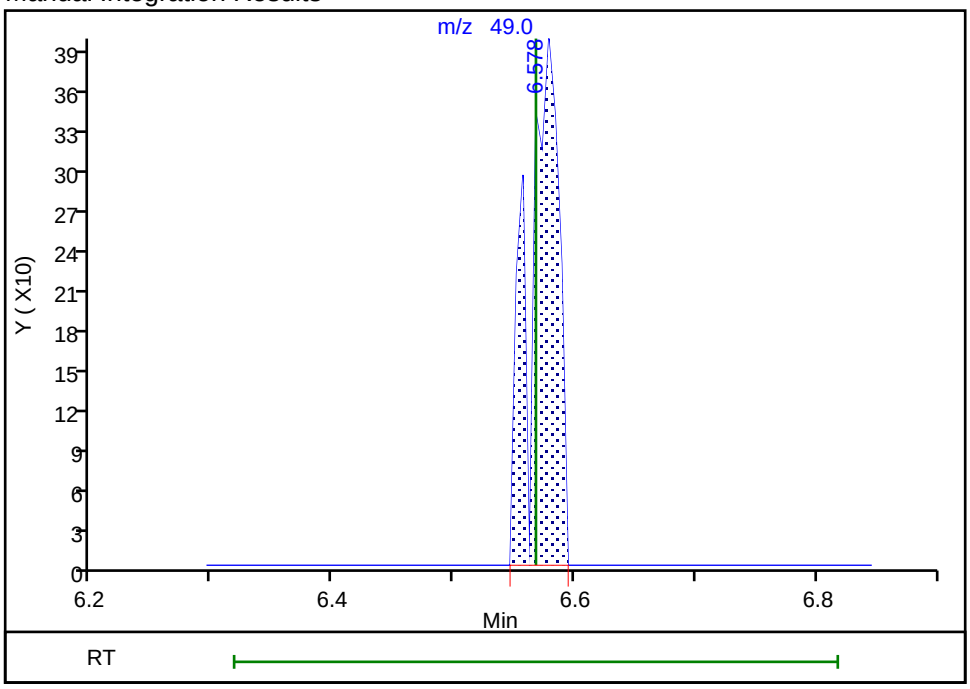
Processing Integration Results

RT: 6.56
Area: 164
Amount: 0.006755
Amount Units: ppb v/v




Manual Integration Results

RT: 6.58
Area: 678
Amount: 0.027925
Amount Units: ppb v/v




Reviewer: puangmaleek, 01-Nov-2018 09:49:27

Audit Action: Manually Integrated Audit Reason: Assign Peak

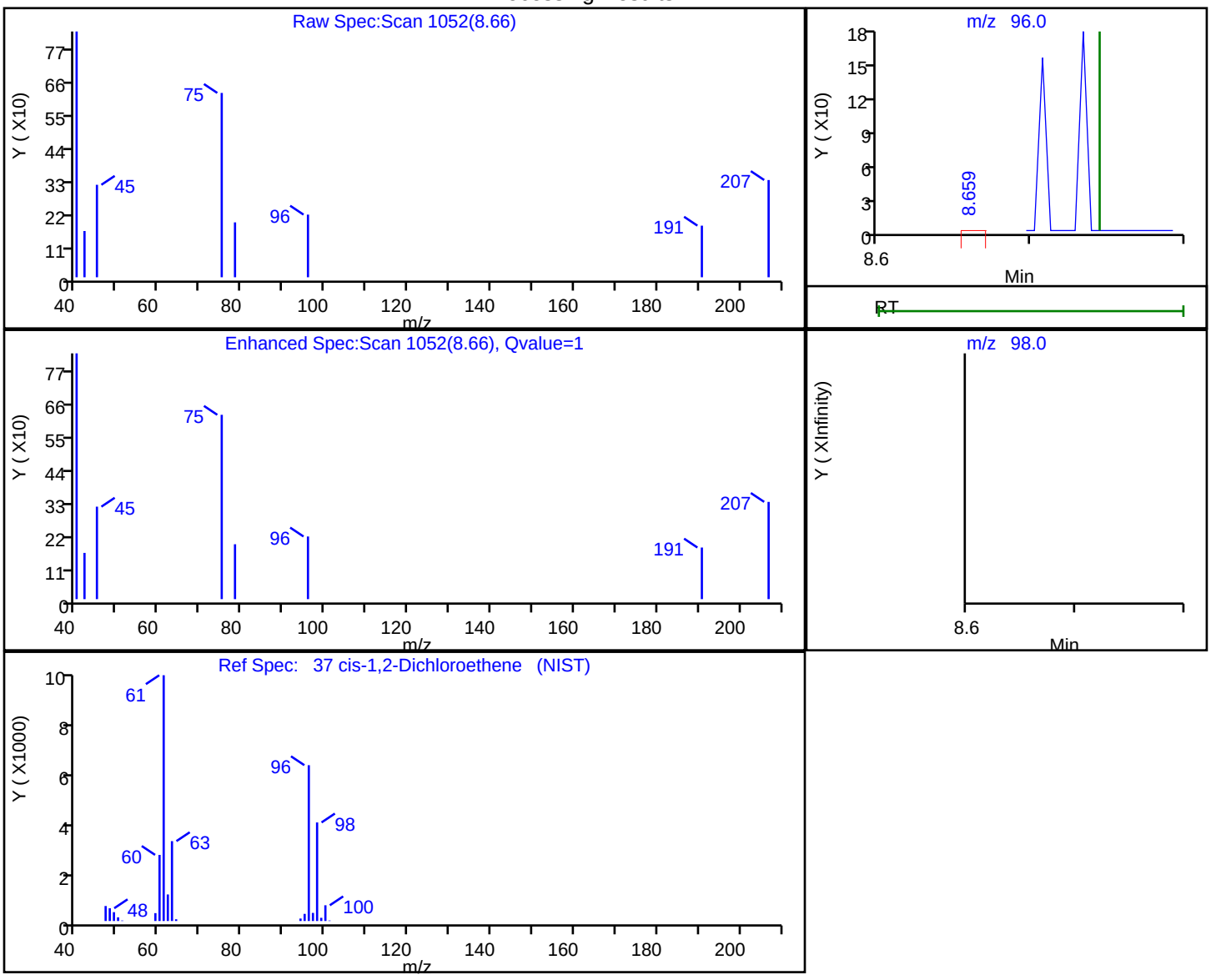
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 8.66 | 96.00 | 131 | 0.004921 |
| 8.75 | 98.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:49:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

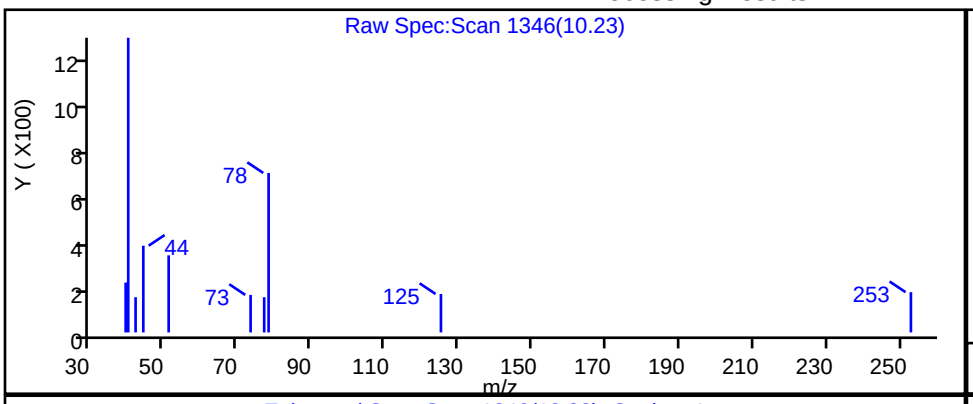
User Disabled Compound Report

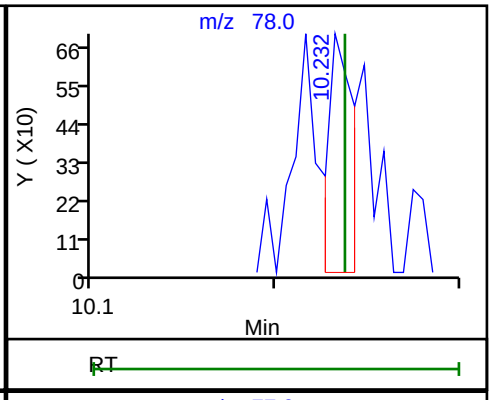
TestAmerica Burlington

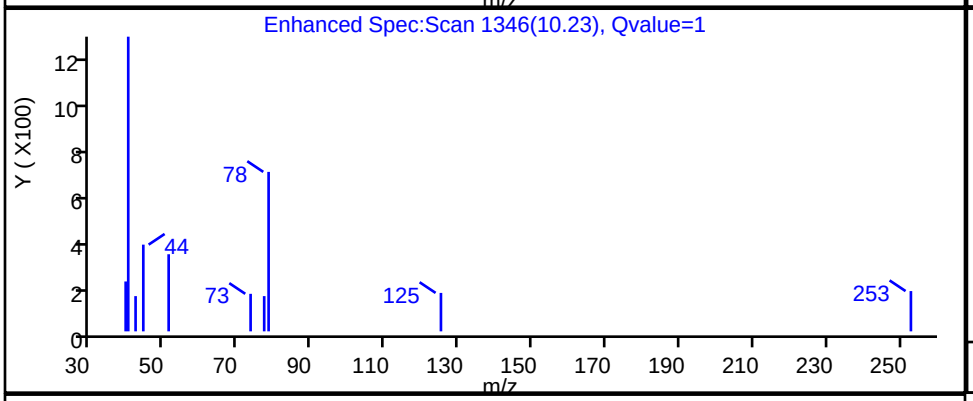
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

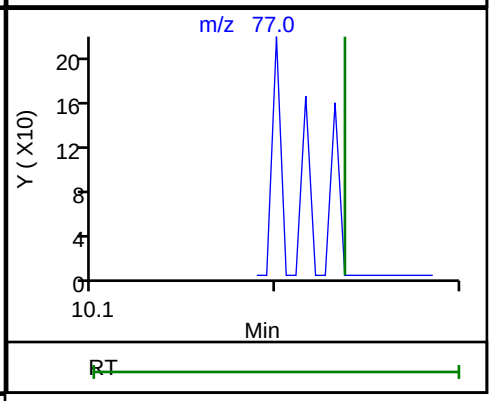
## 47 Benzene, CAS: 71-43-2

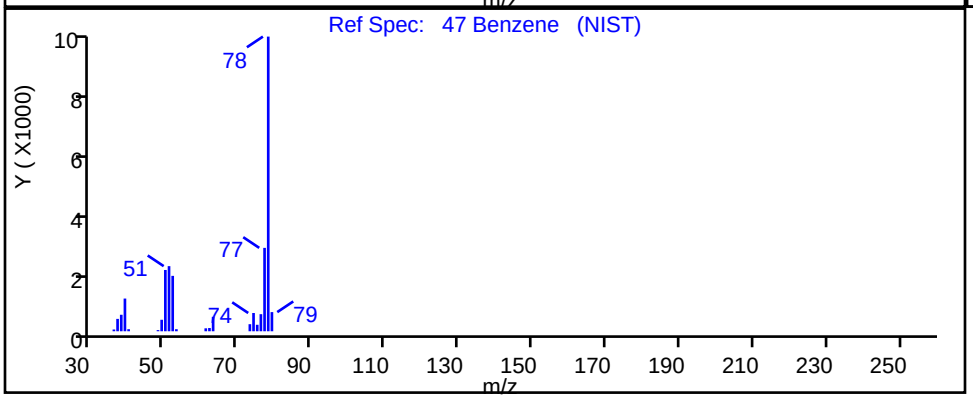
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.23 | 78.00 | 657 | 0.009030 |
| 10.24 | 77.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

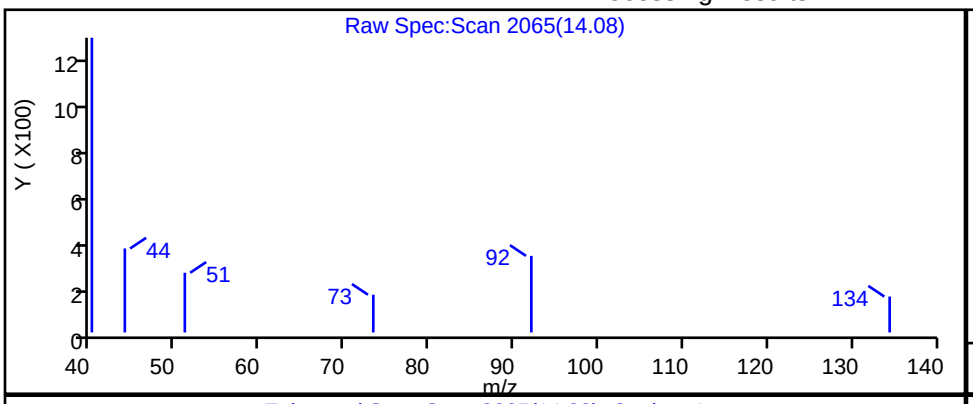
User Disabled Compound Report

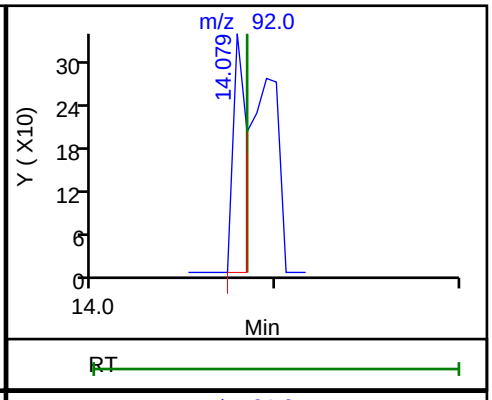
TestAmerica Burlington

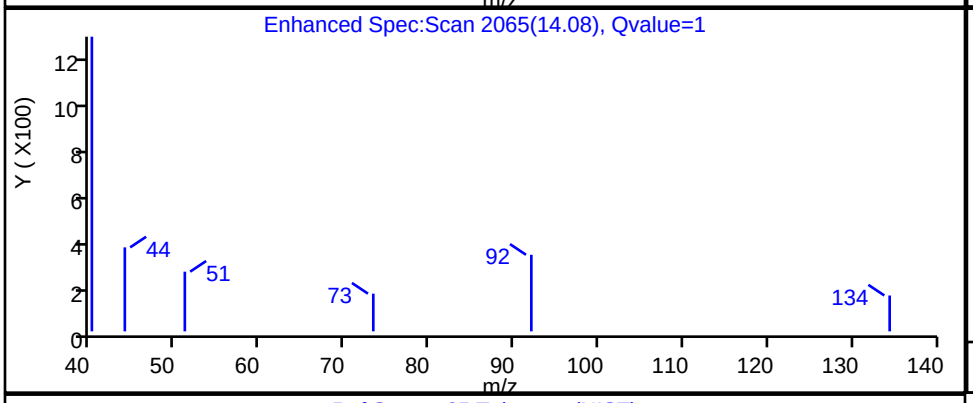
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

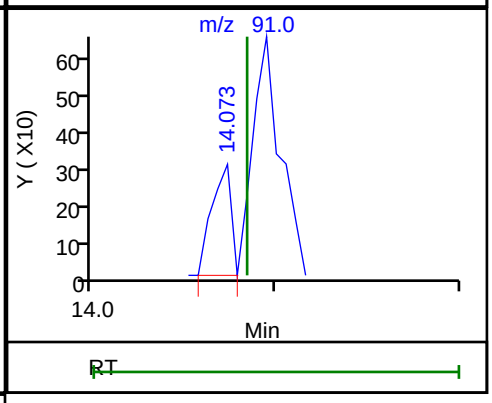
## 65 Toluene, CAS: 108-88-3

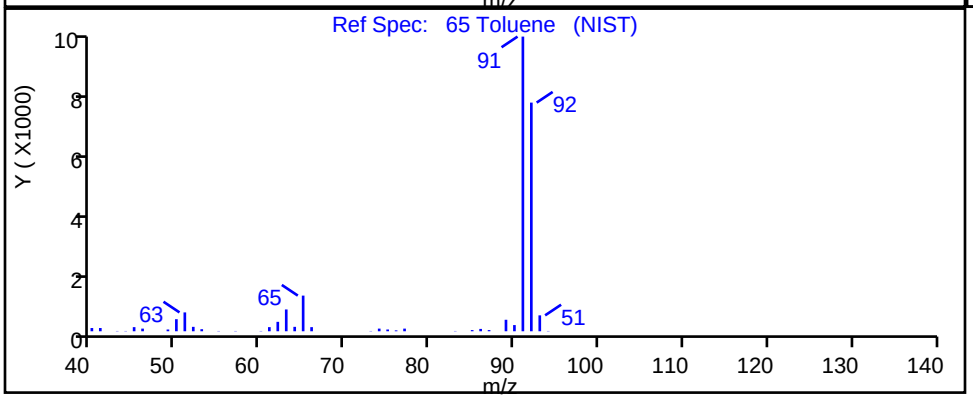
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.08 | 92.00 | 169 | 0.003371 |
| 14.07 | 91.00 | 225 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

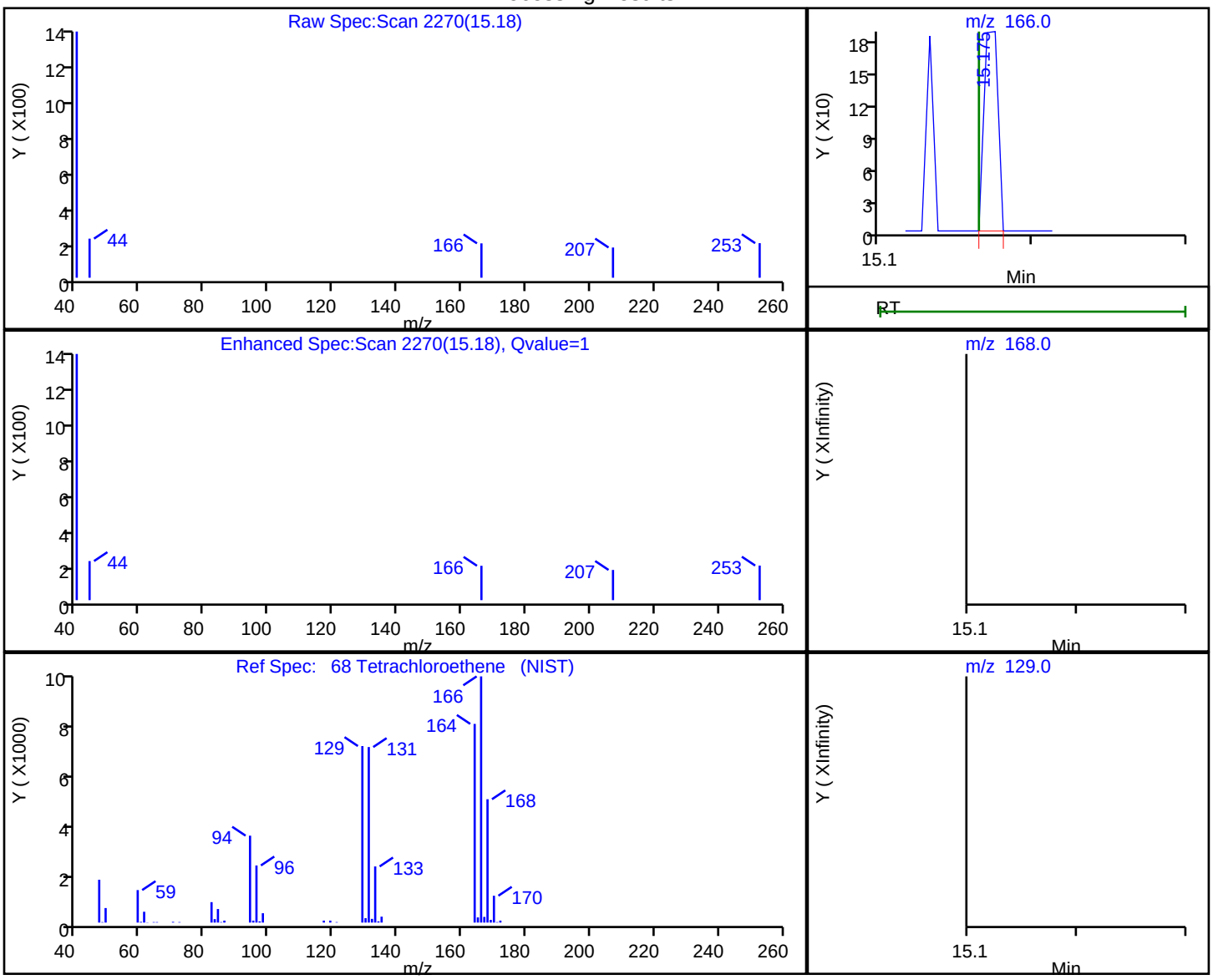
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 68 Tetrachloroethene, CAS: 127-18-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.18 | 166.00 | 117 | 0.002195 |
| 15.16 | 168.00 | 0 | |
| 15.16 | 129.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

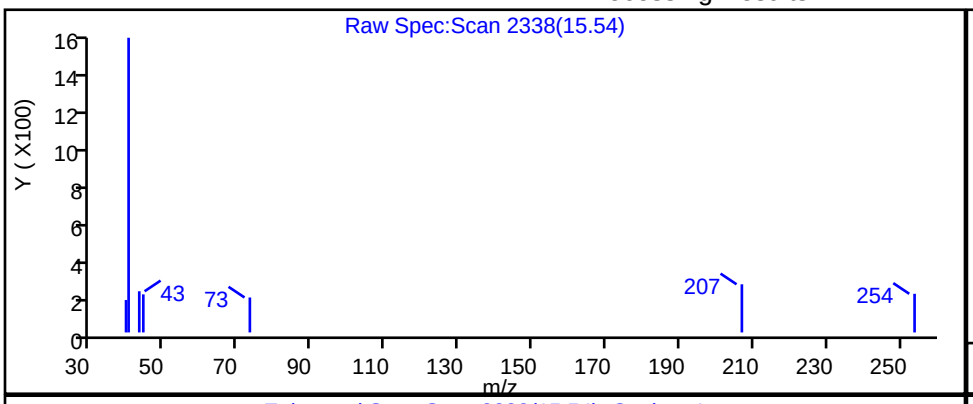
User Disabled Compound Report

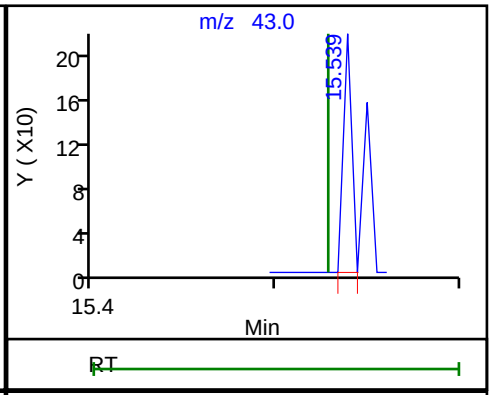
TestAmerica Burlington

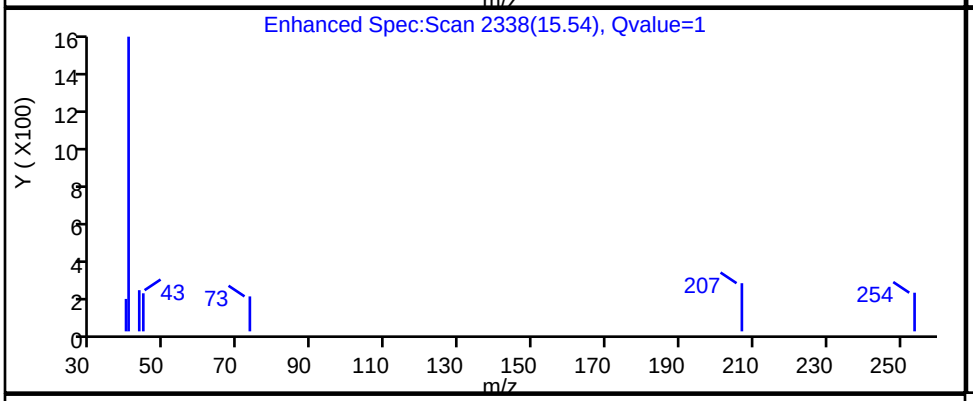
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

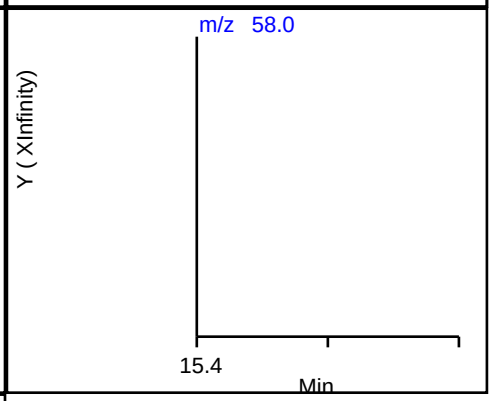
## 69 2-Hexanone, CAS: 591-78-6

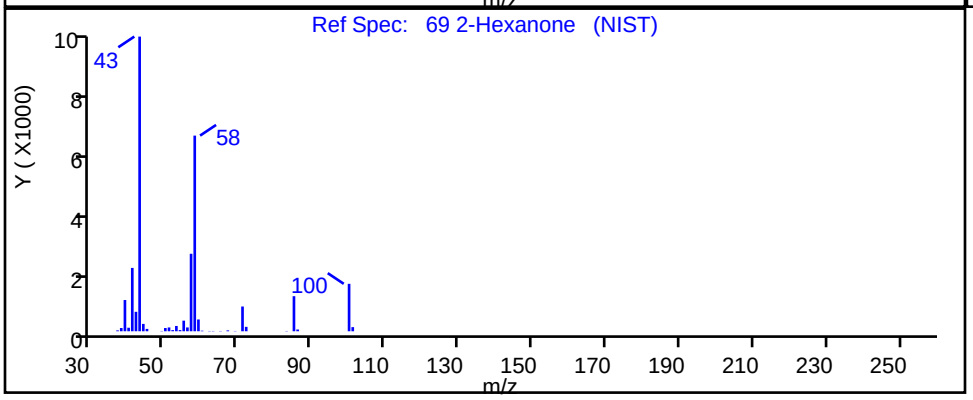
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.54 | 43.00 | 68 | 0.001592 |
| 15.53 | 58.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

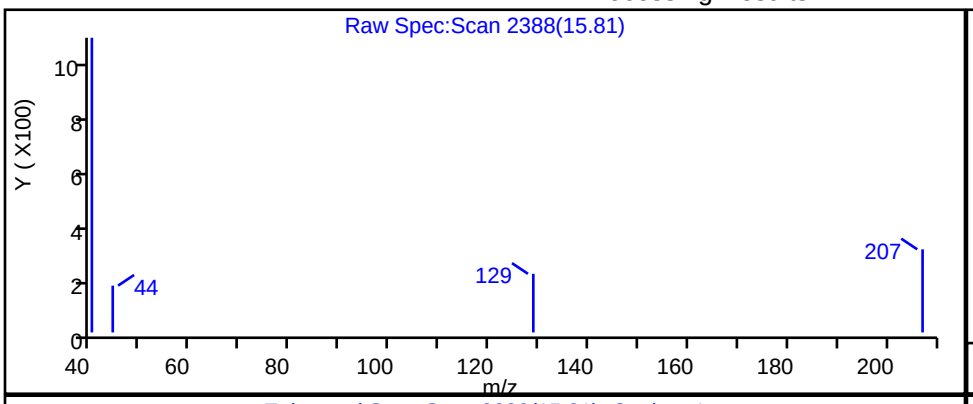
User Disabled Compound Report

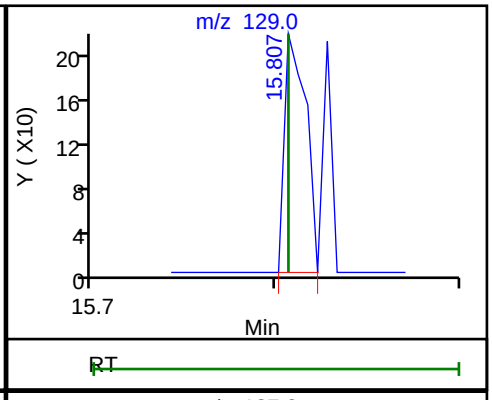
TestAmerica Burlington

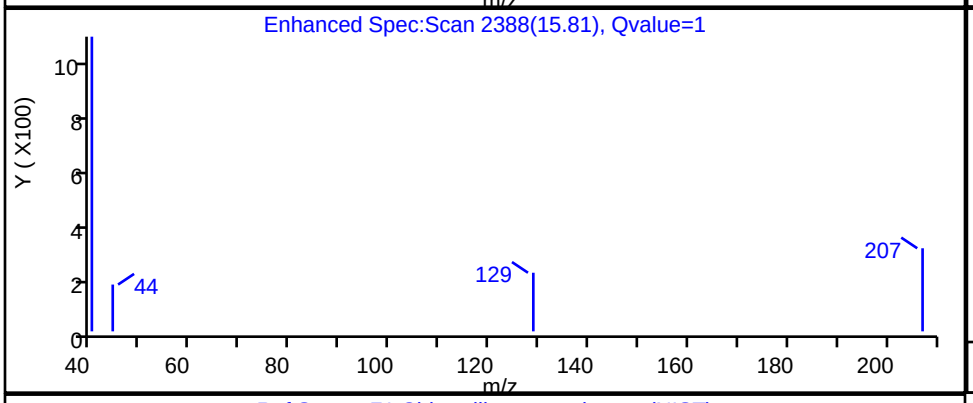
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

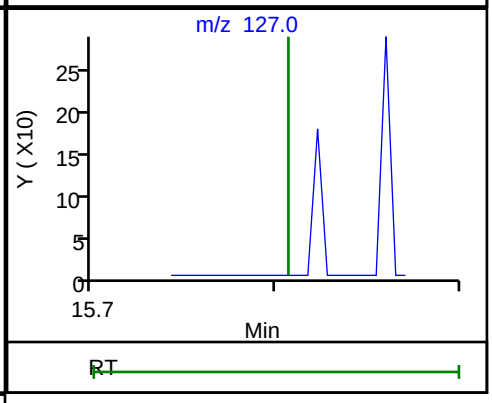
## 71 Chlorodibromomethane, CAS: 124-48-1

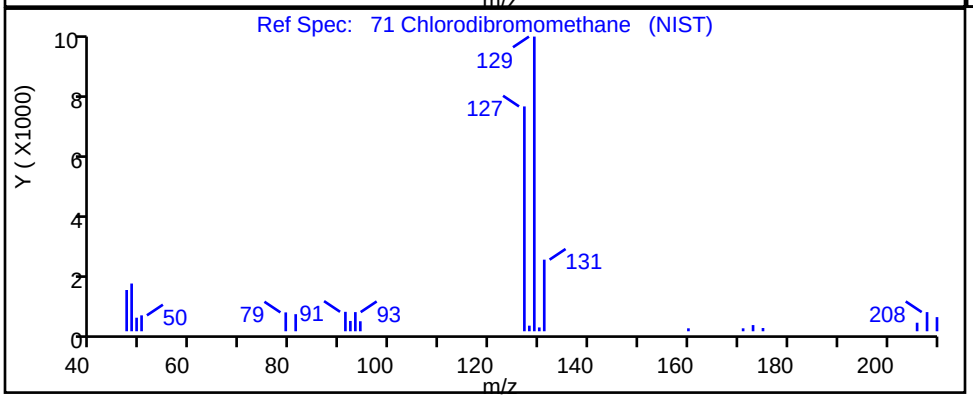
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 15.81 | 129.00 | 177 | 0.002465 |
| 15.81 | 127.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

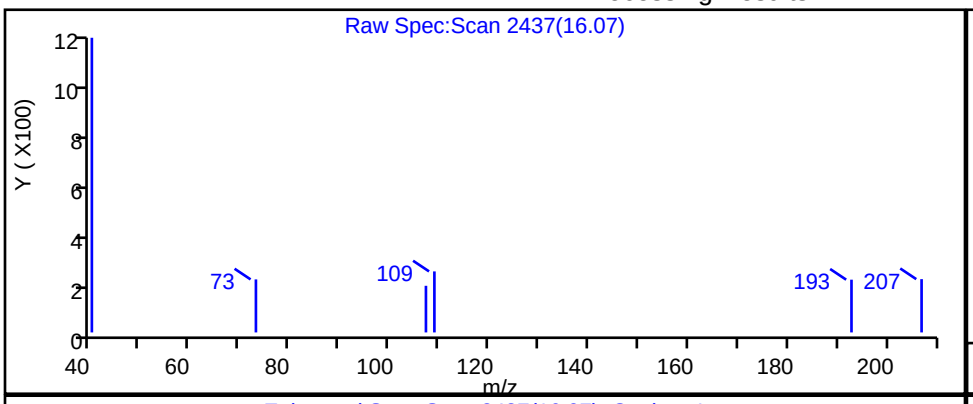
User Disabled Compound Report

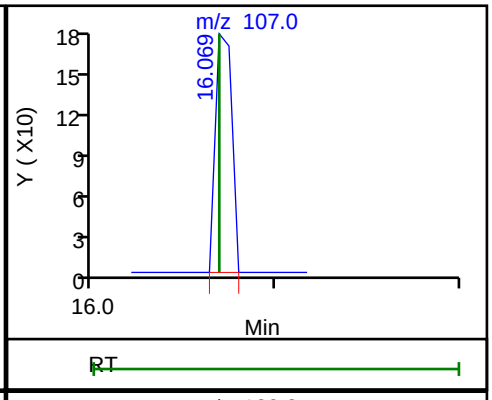
TestAmerica Burlington

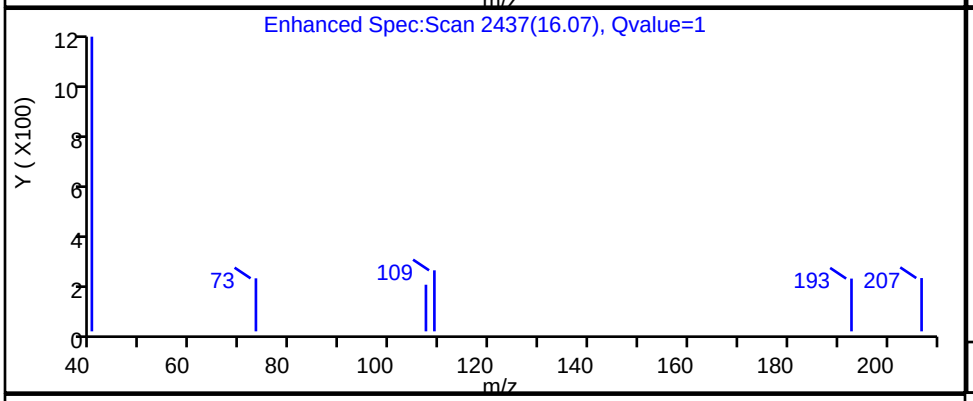
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

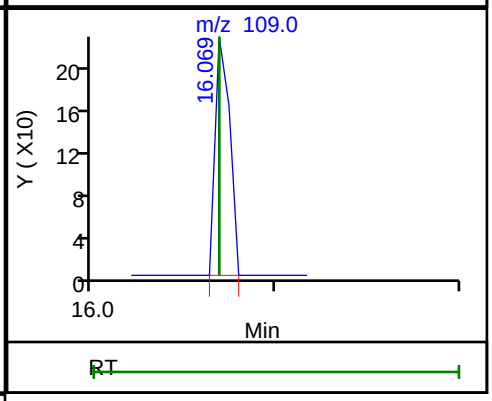
## 72 Ethylene Dibromide, CAS: 106-93-4

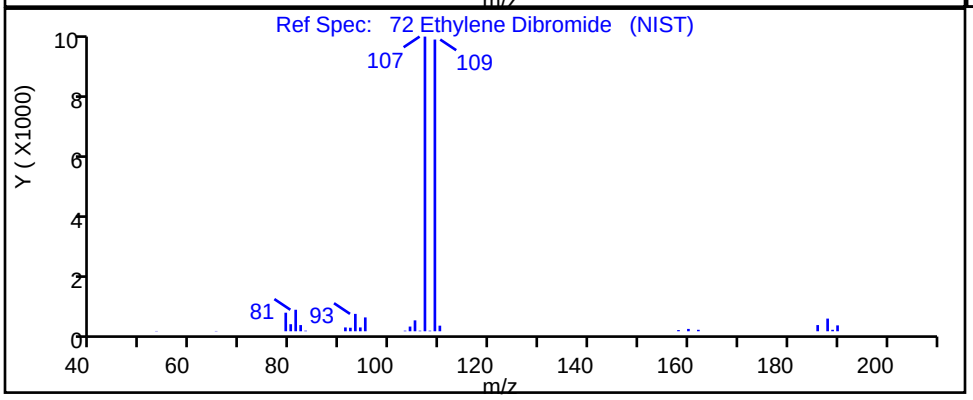
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 16.07 | 107.00 | 109 | 0.001995 |
| 16.07 | 109.00 | 126 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

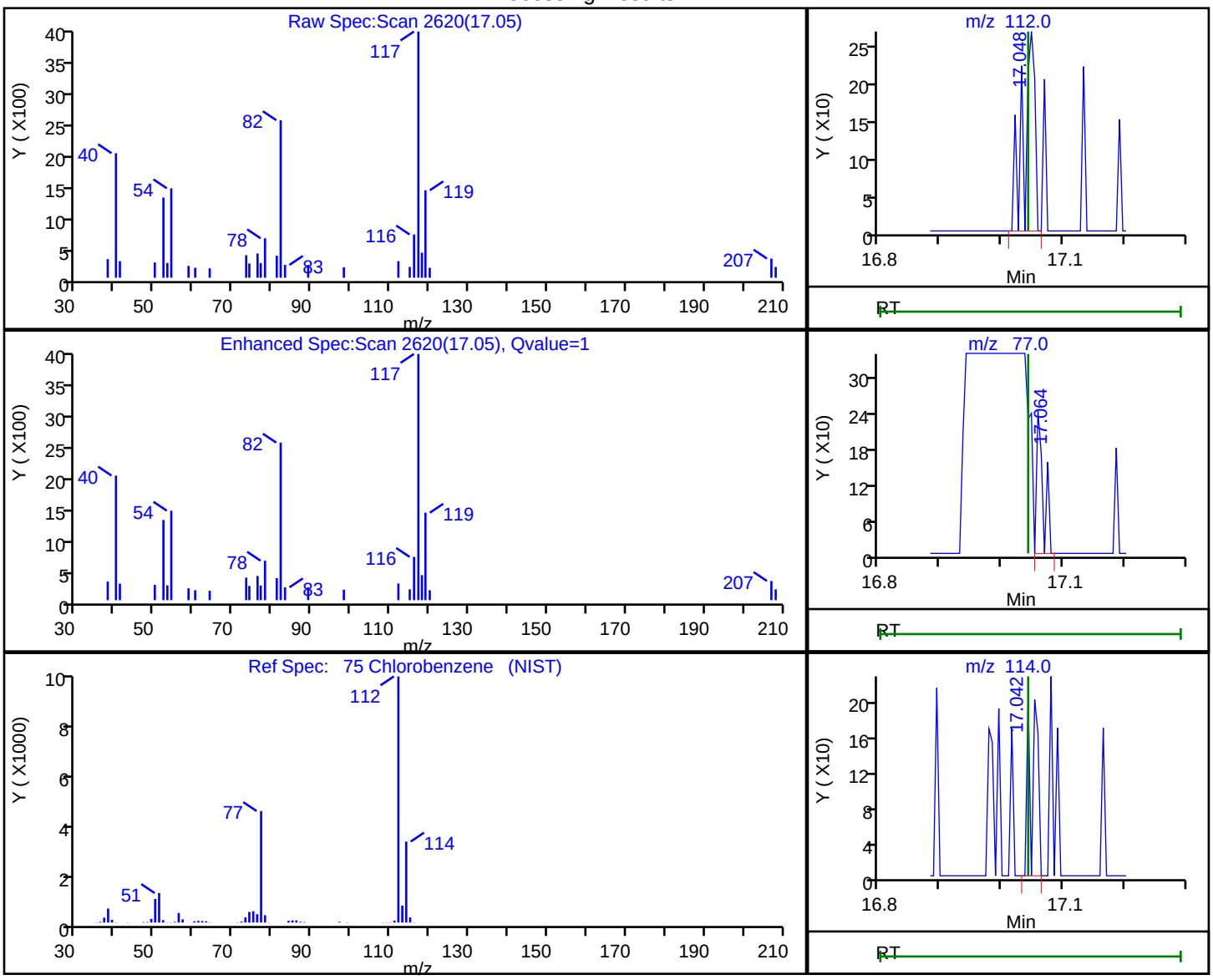
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 75 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.05 | 112.00 | 342 | 0.004691 |
| 17.06 | 77.00 | 180 | |
| 17.04 | 114.00 | 179 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

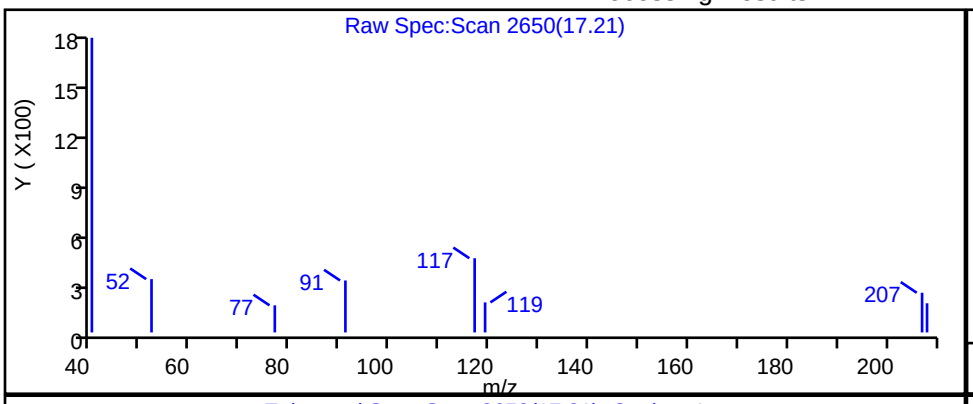
User Disabled Compound Report

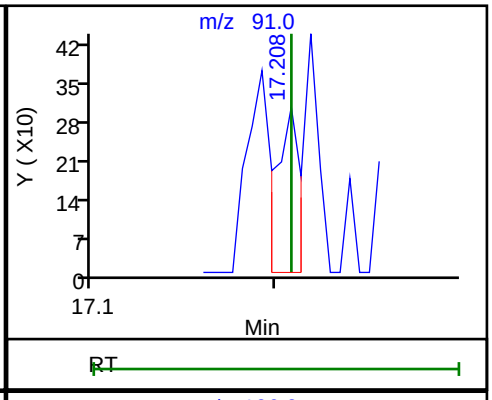
TestAmerica Burlington

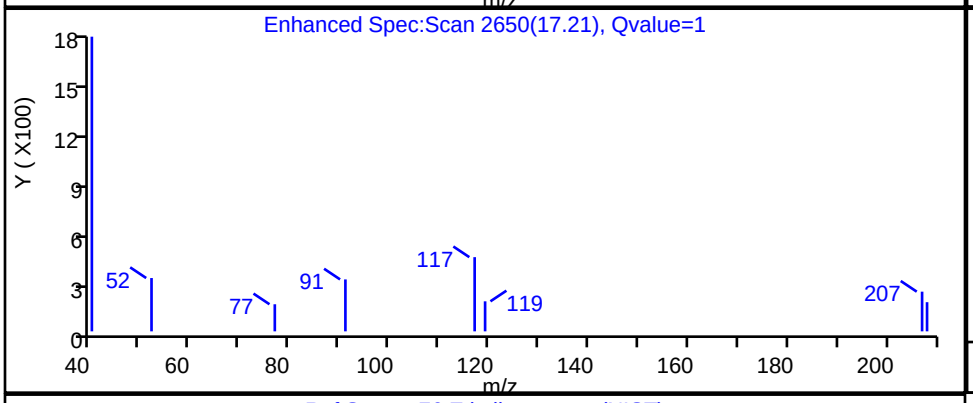
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

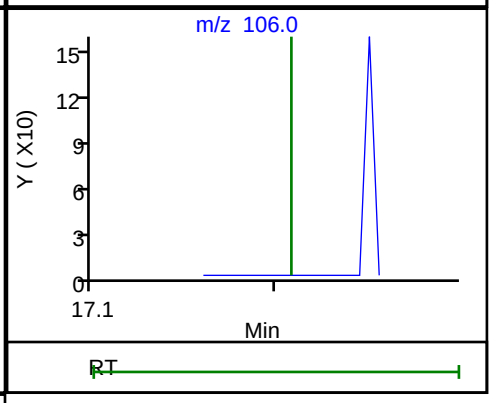
## 76 Ethylbenzene, CAS: 100-41-4

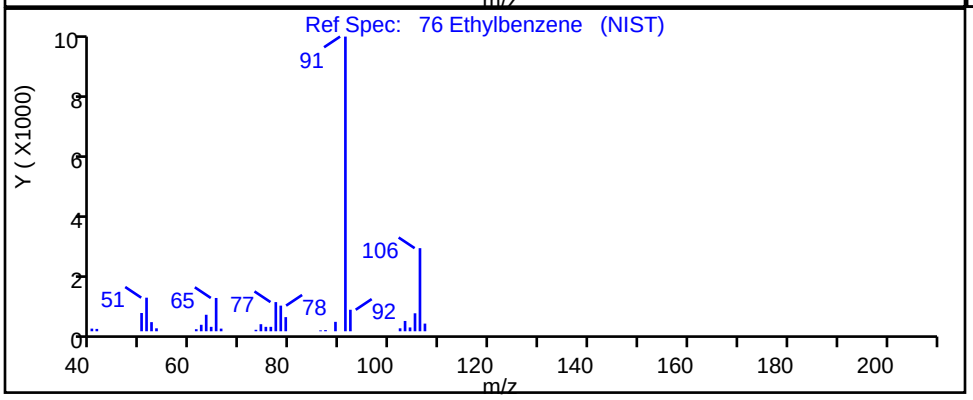
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.21 | 91.00 | 277 | 0.002544 |
| 17.21 | 106.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:50:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

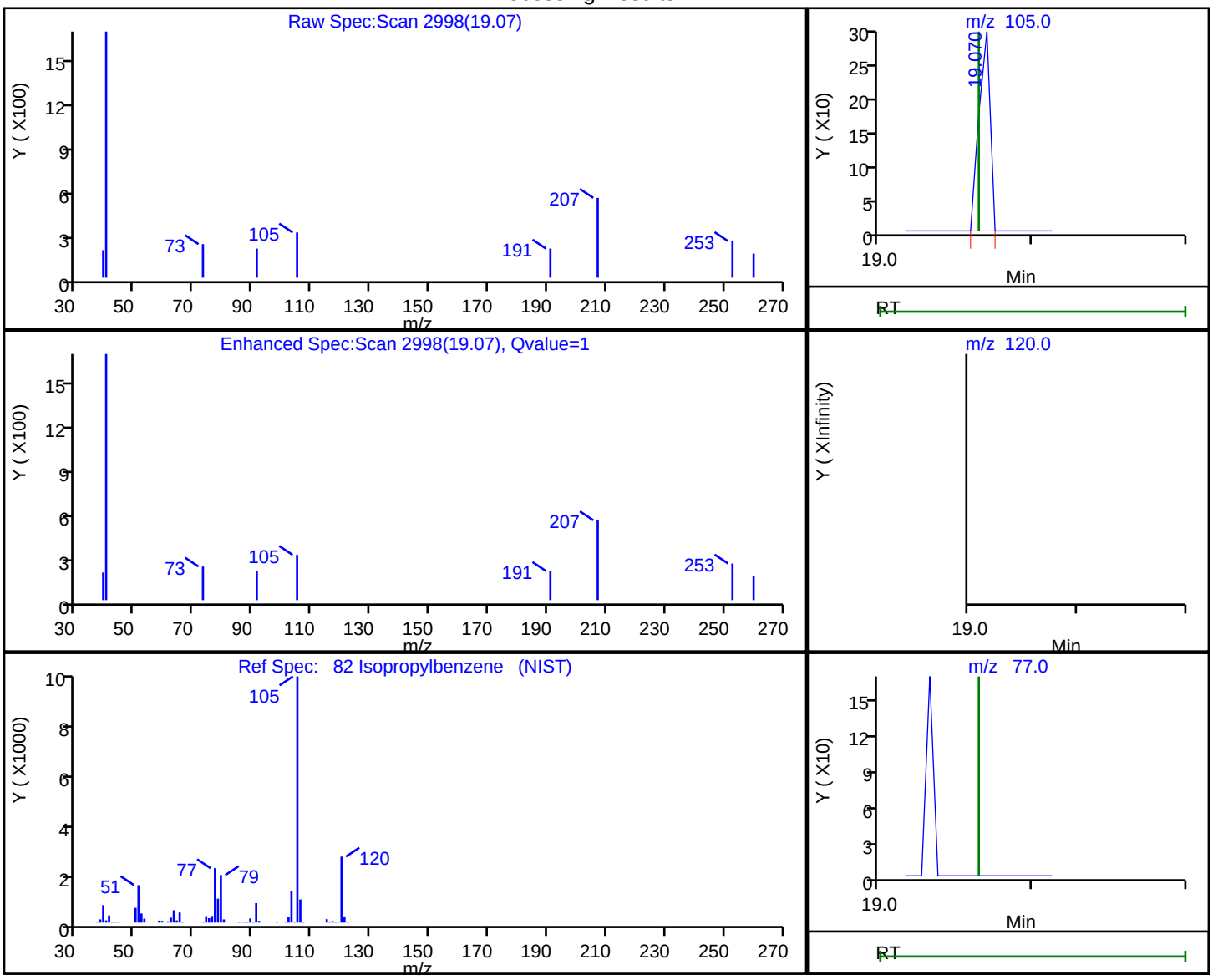
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 82 Isopropylbenzene, CAS: 98-82-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.07 | 105.00 | 150 | 0.001253 |
| 19.06 | 120.00 | 0 | |
| 19.06 | 77.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

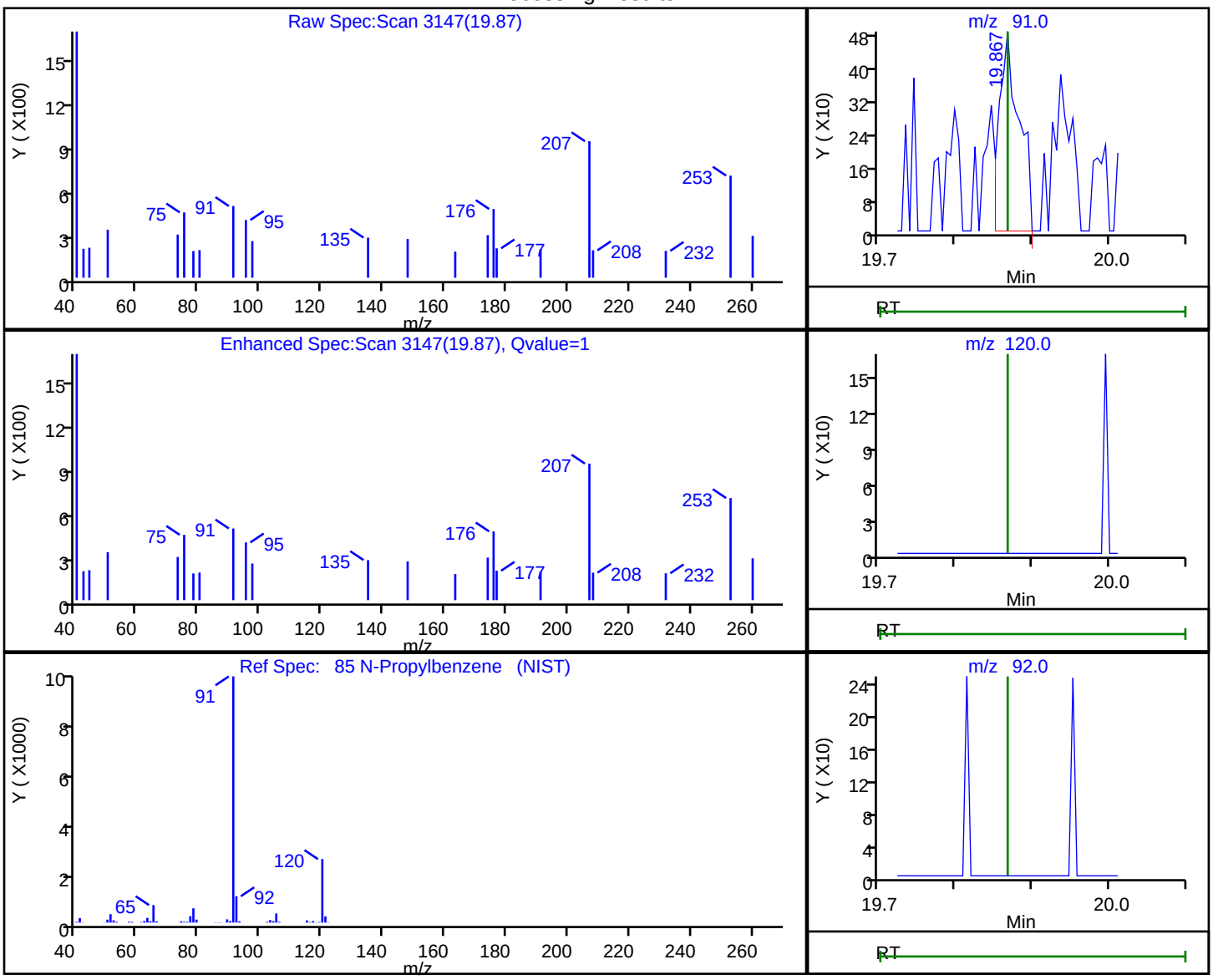
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.87 | 91.00 | 868 | 0.006281 |
| 19.87 | 120.00 | 0 | |
| 19.87 | 92.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

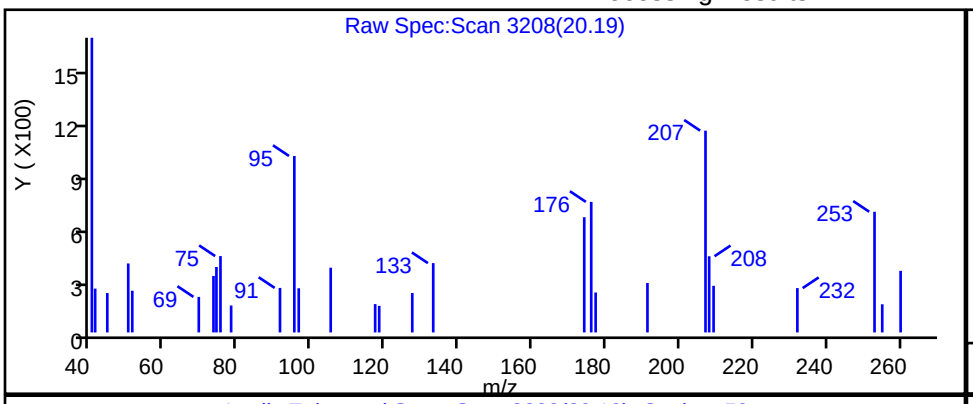
User Disabled Compound Report

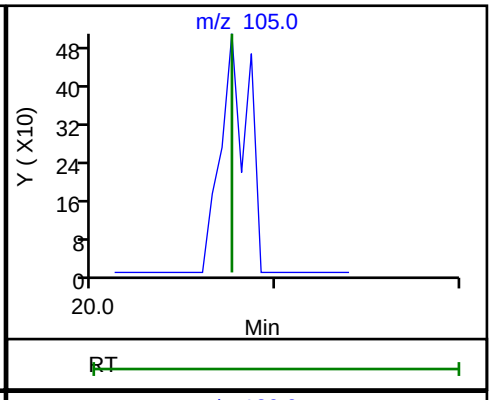
TestAmerica Burlington

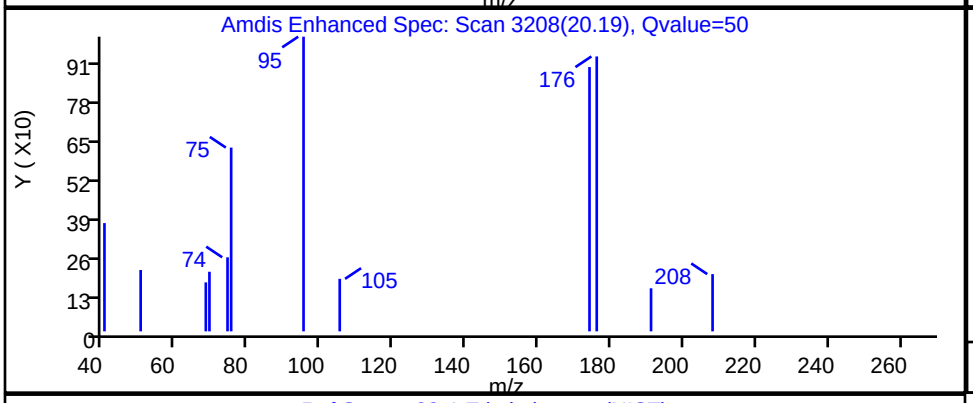
Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i
Lims ID: mb
Client ID:
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

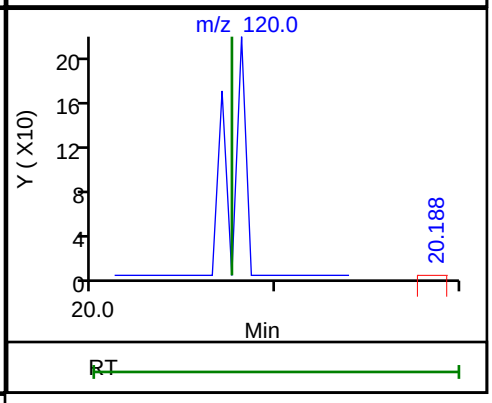
## 88 4-Ethyltoluene, CAS: 622-96-8

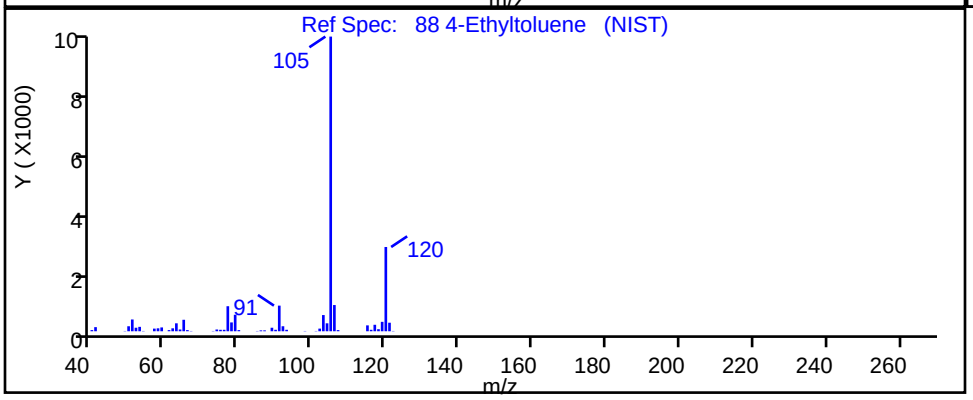
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.19 | 105.00 | 324 | 0.002909 |
| 20.19 | 120.00 | 146 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

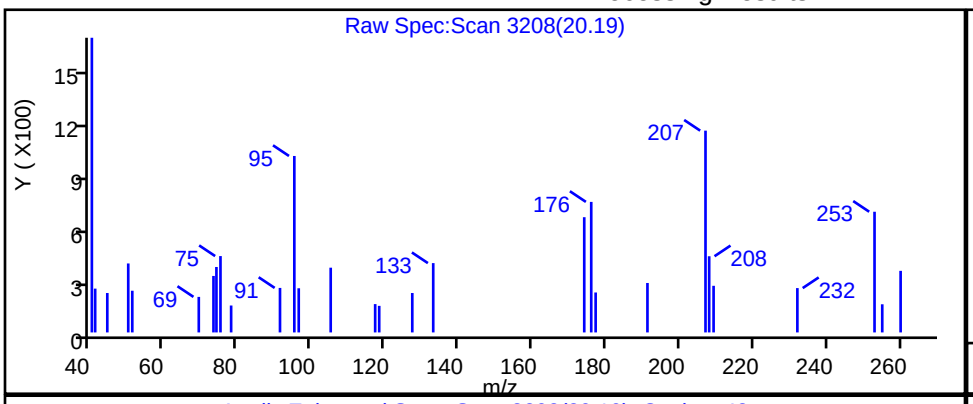
User Disabled Compound Report

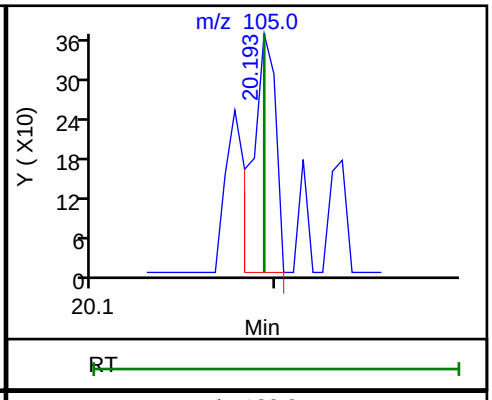
TestAmerica Burlington

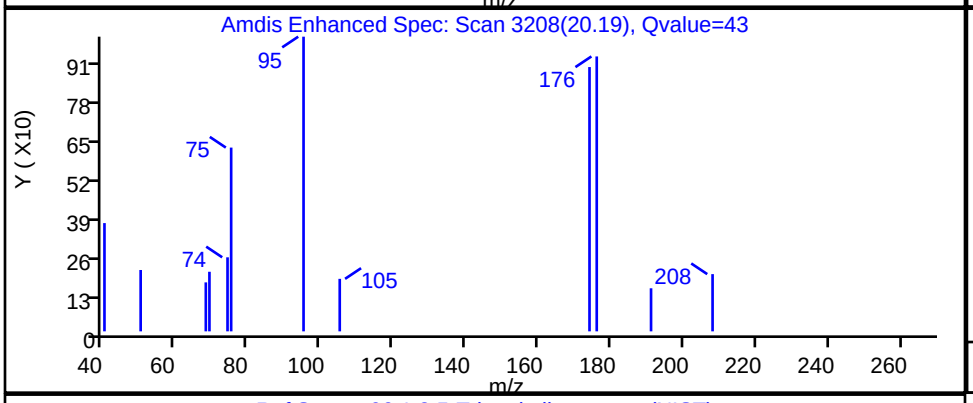
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

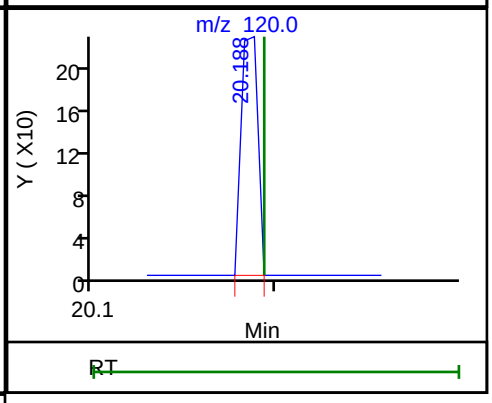
## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

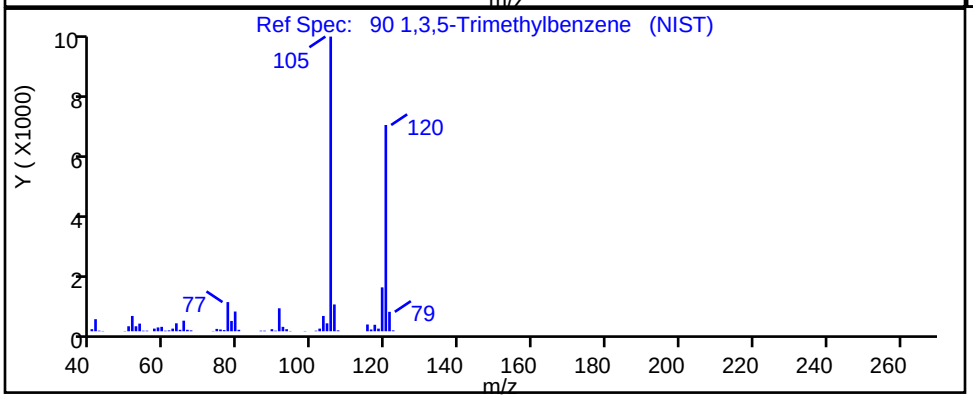
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.19 | 105.00 | 324 | 0.003337 |
| 20.19 | 120.00 | 146 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

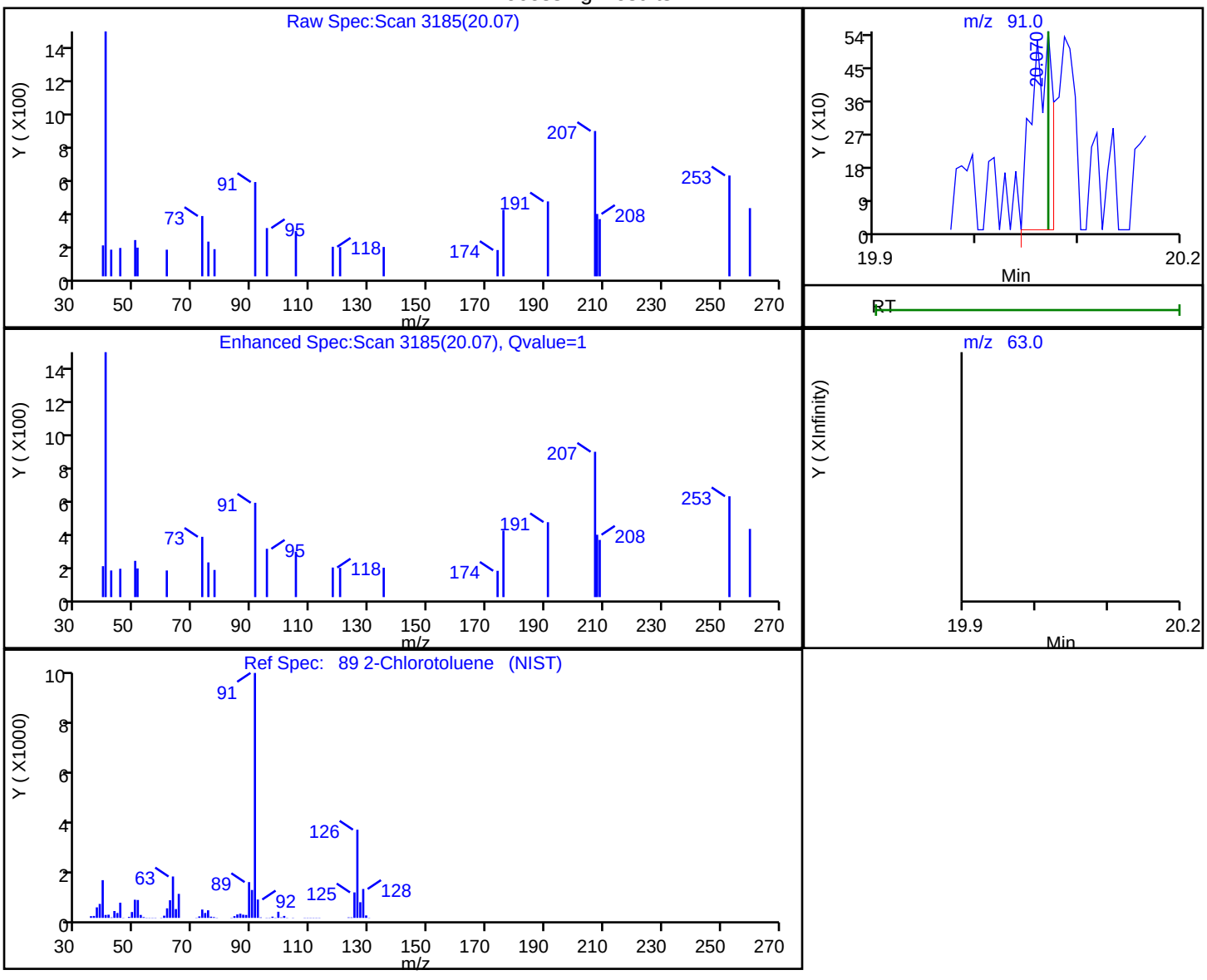
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.07 | 91.00 | 754 | 0.007439 |
| 20.07 | 63.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

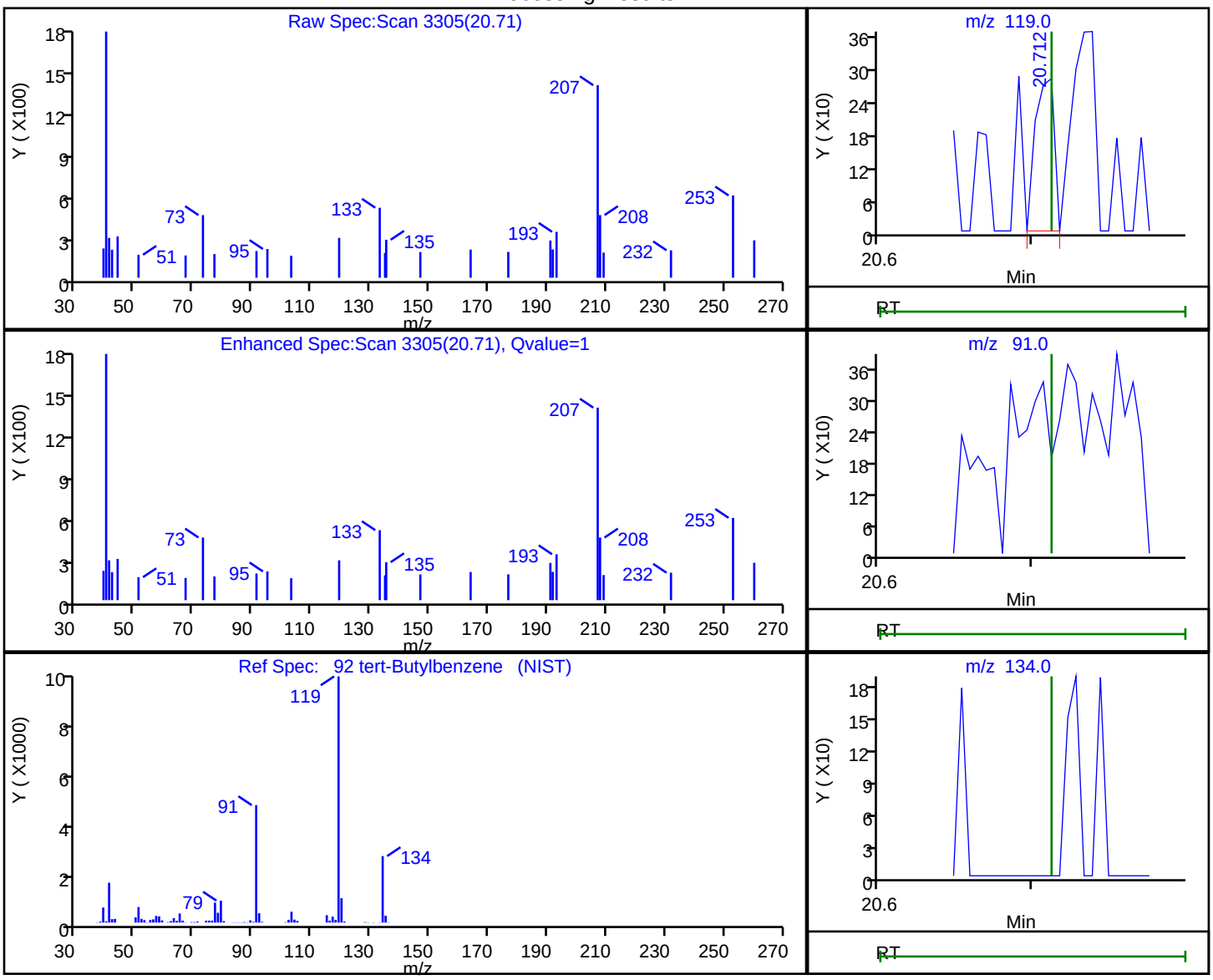
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.71 | 119.00 | 238 | 0.002561 |
| 20.71 | 91.00 | 0 | |
| 20.71 | 134.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

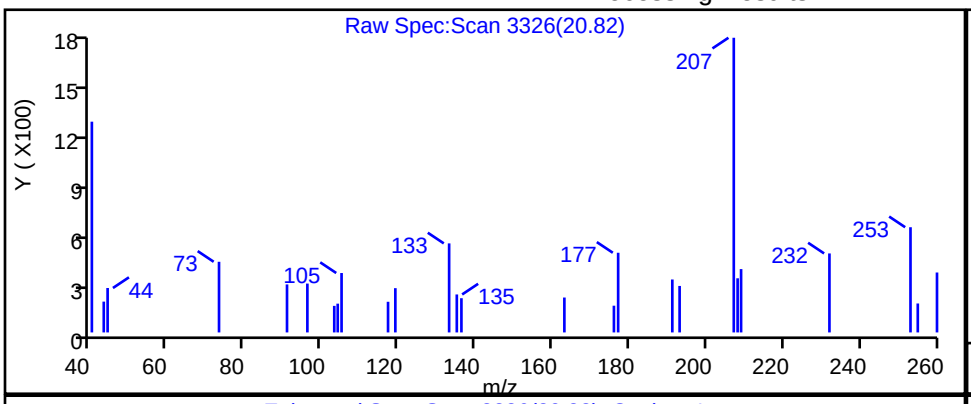
User Disabled Compound Report

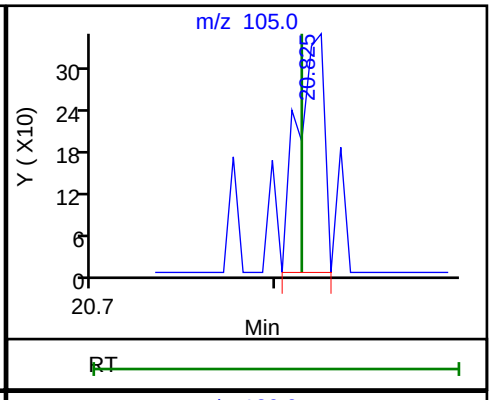
TestAmerica Burlington

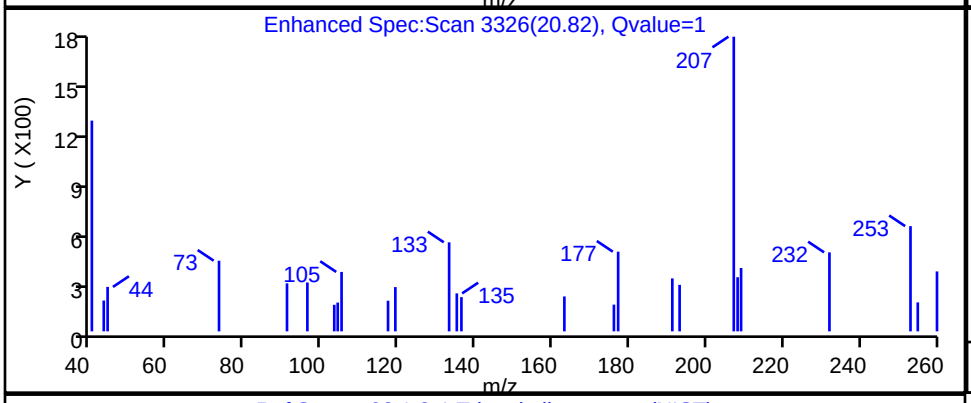
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

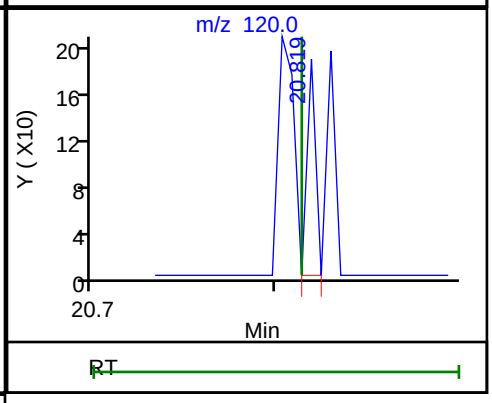
## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

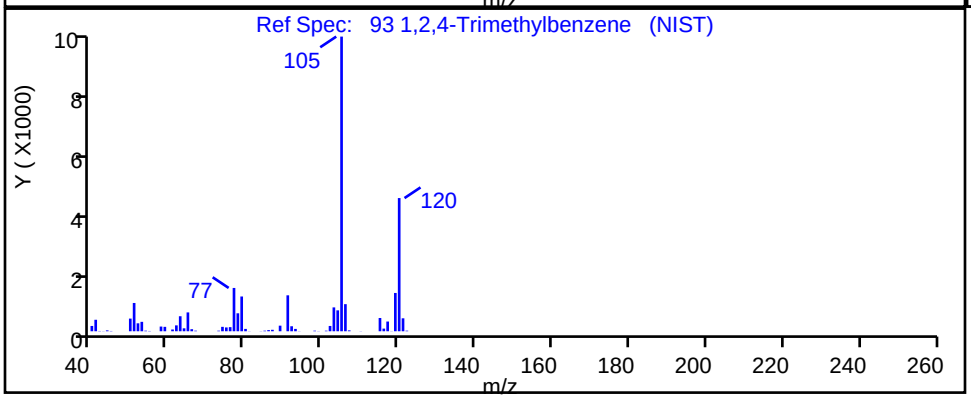
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.82 | 105.00 | 356 | 0.003805 |
| 20.82 | 120.00 | 58 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

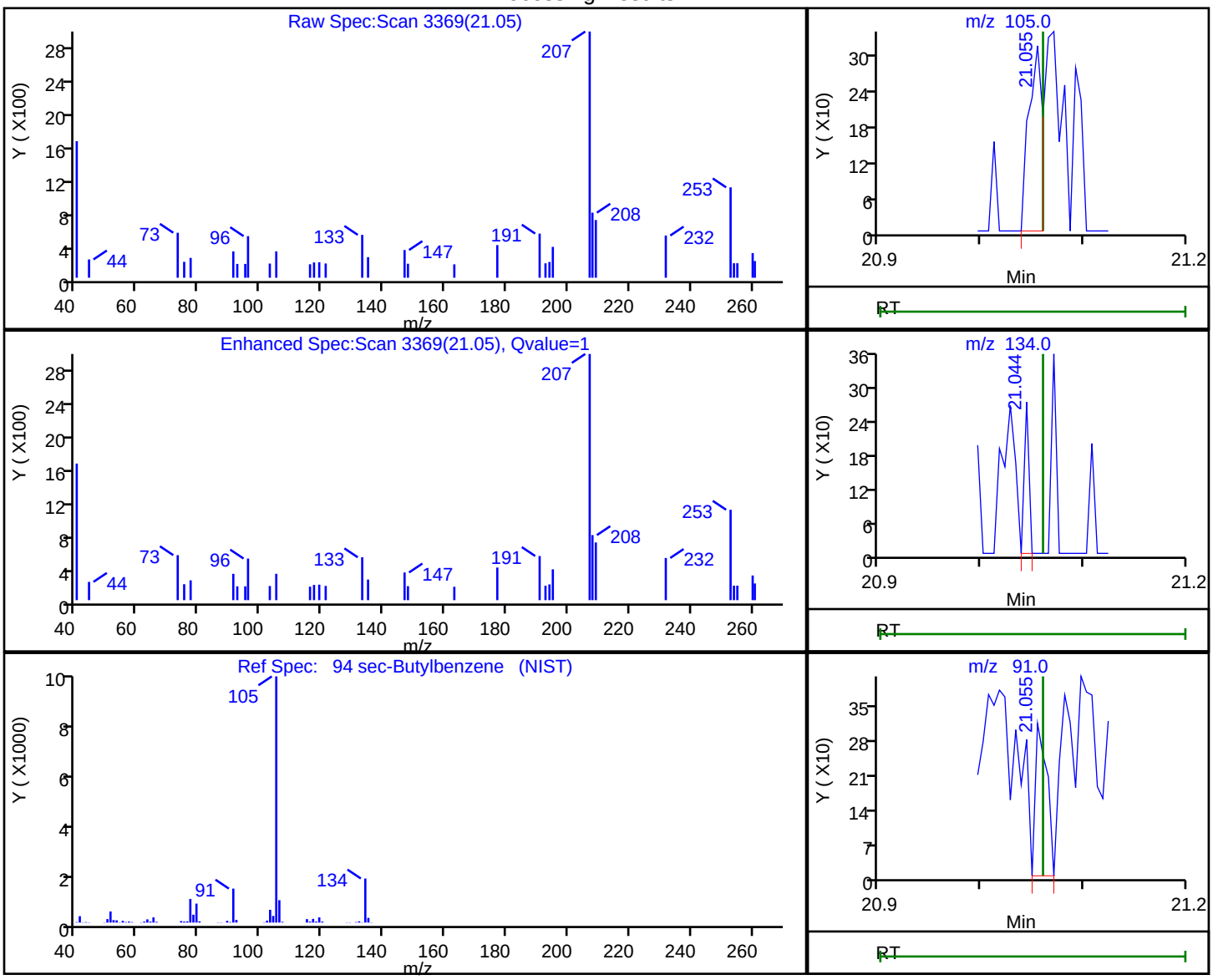
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.05 | 105.00 | 293 | 0.002167 |
| 21.04 | 134.00 | 86 | |
| 21.05 | 91.00 | 244 | |

Reviewer: puangmaleek, 01-Nov-2018 09:51:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

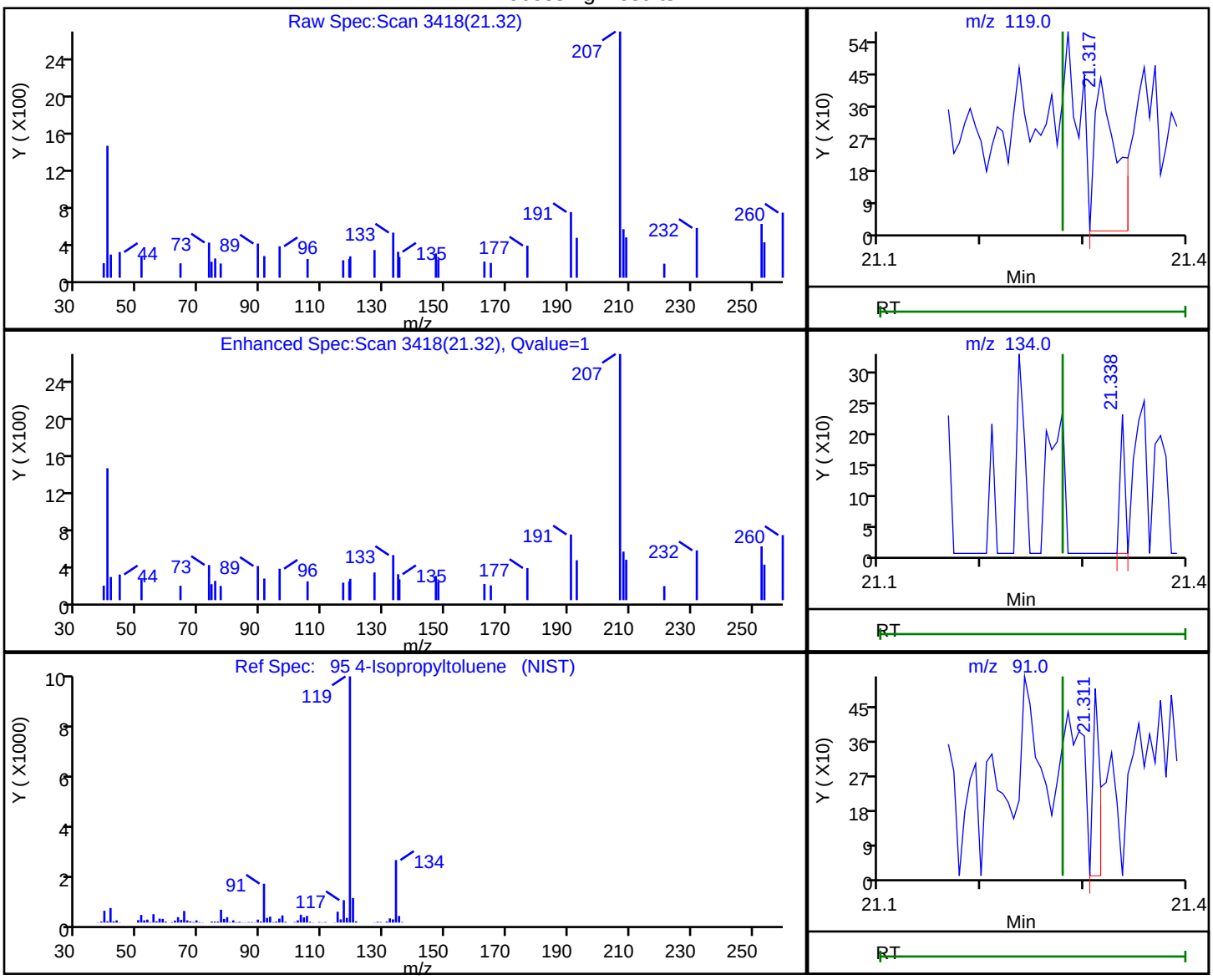
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.32 | 119.00 | 634 | 0.005756 |
| 21.34 | 134.00 | 73 | |
| 21.31 | 91.00 | 233 | |

Reviewer: puangmaleek, 01-Nov-2018 09:52:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

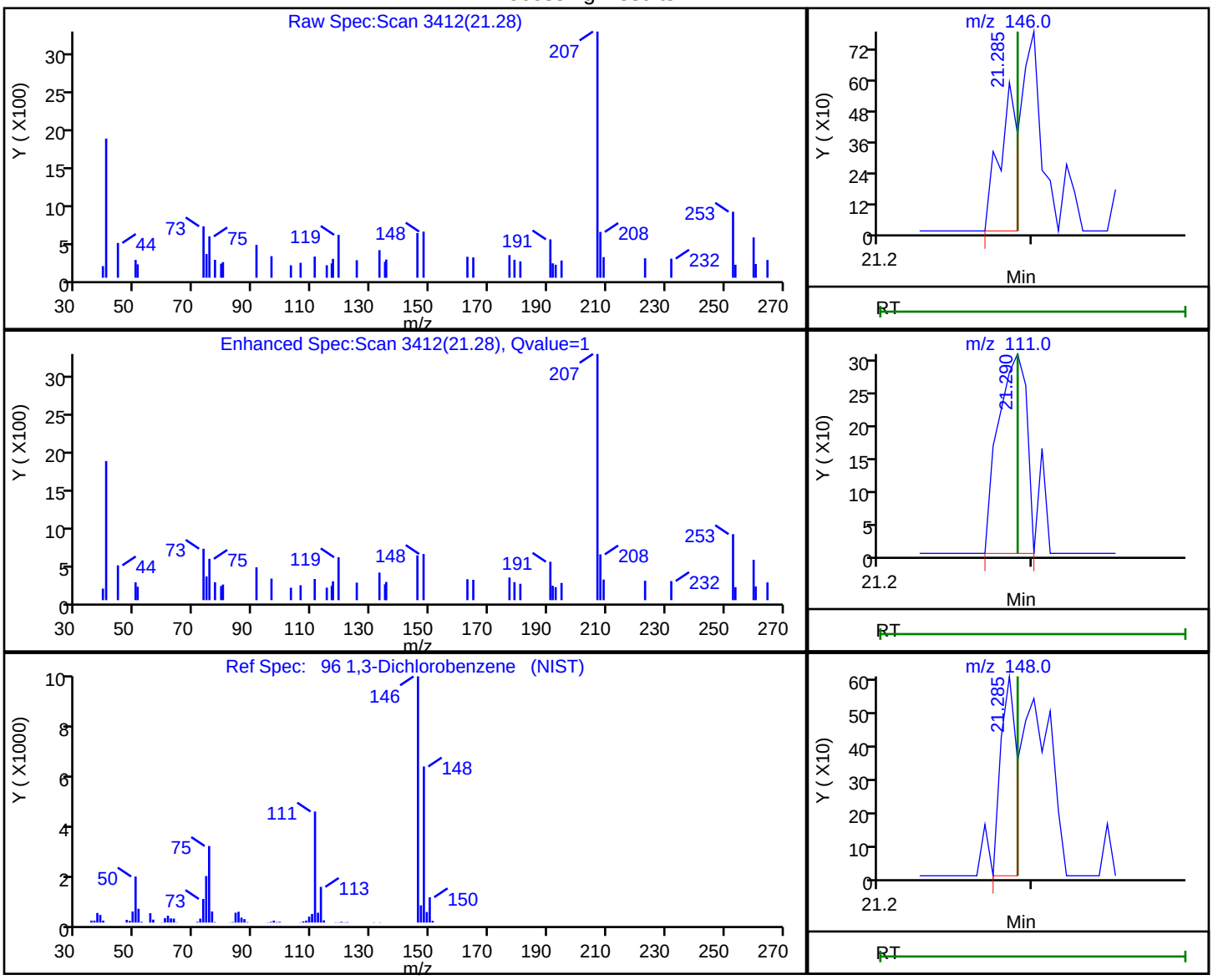
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.28 | 146.00 | 488 | 0.006750 |
| 21.29 | 111.00 | 394 | |
| 21.28 | 148.00 | 442 | |

Reviewer: puangmaleek, 01-Nov-2018 09:52:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

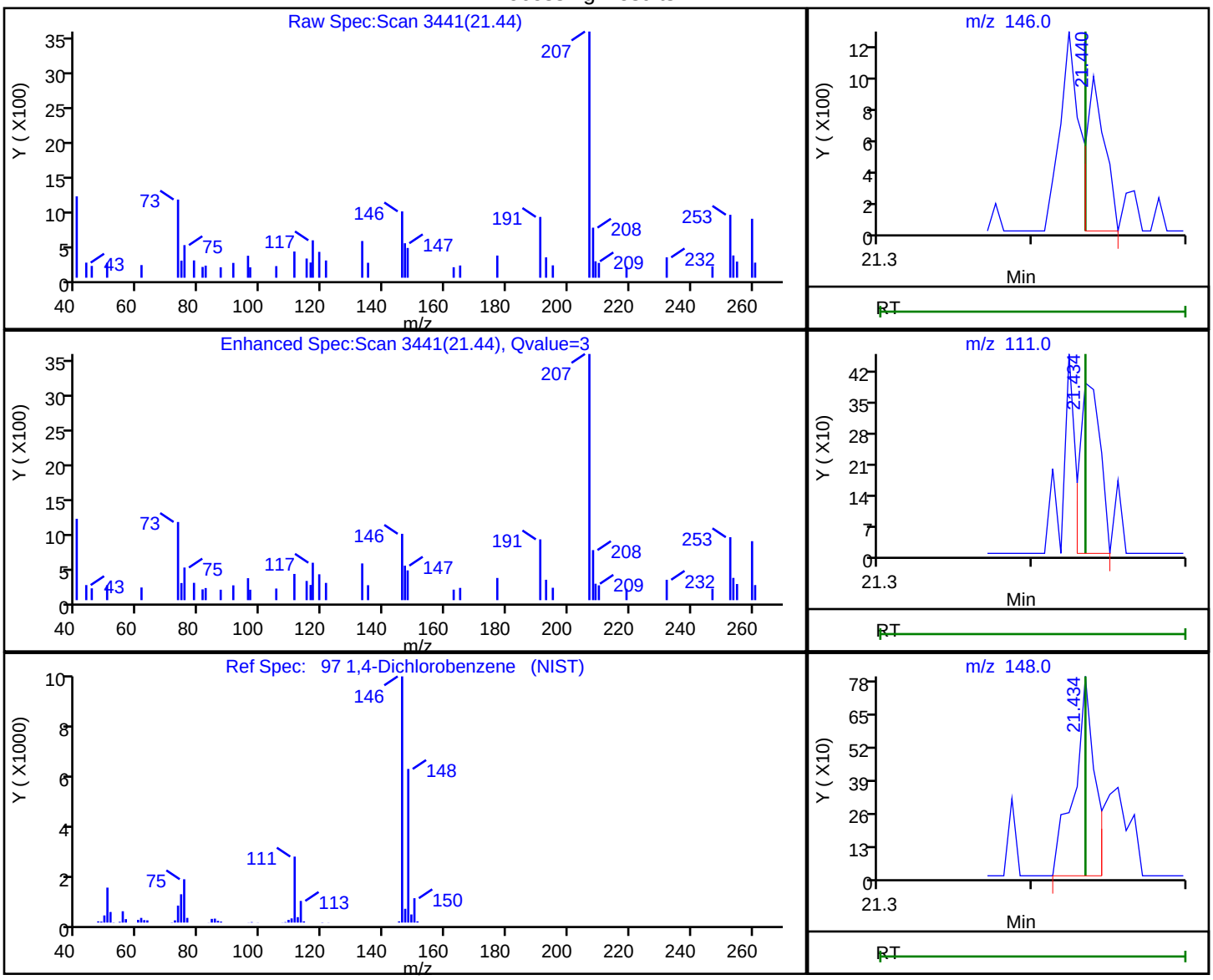
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.44 | 146.00 | 803 | 0.011339 |
| 21.43 | 111.00 | 373 | |
| 21.43 | 148.00 | 752 | |

Reviewer: puangmaleek, 01-Nov-2018 09:52:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

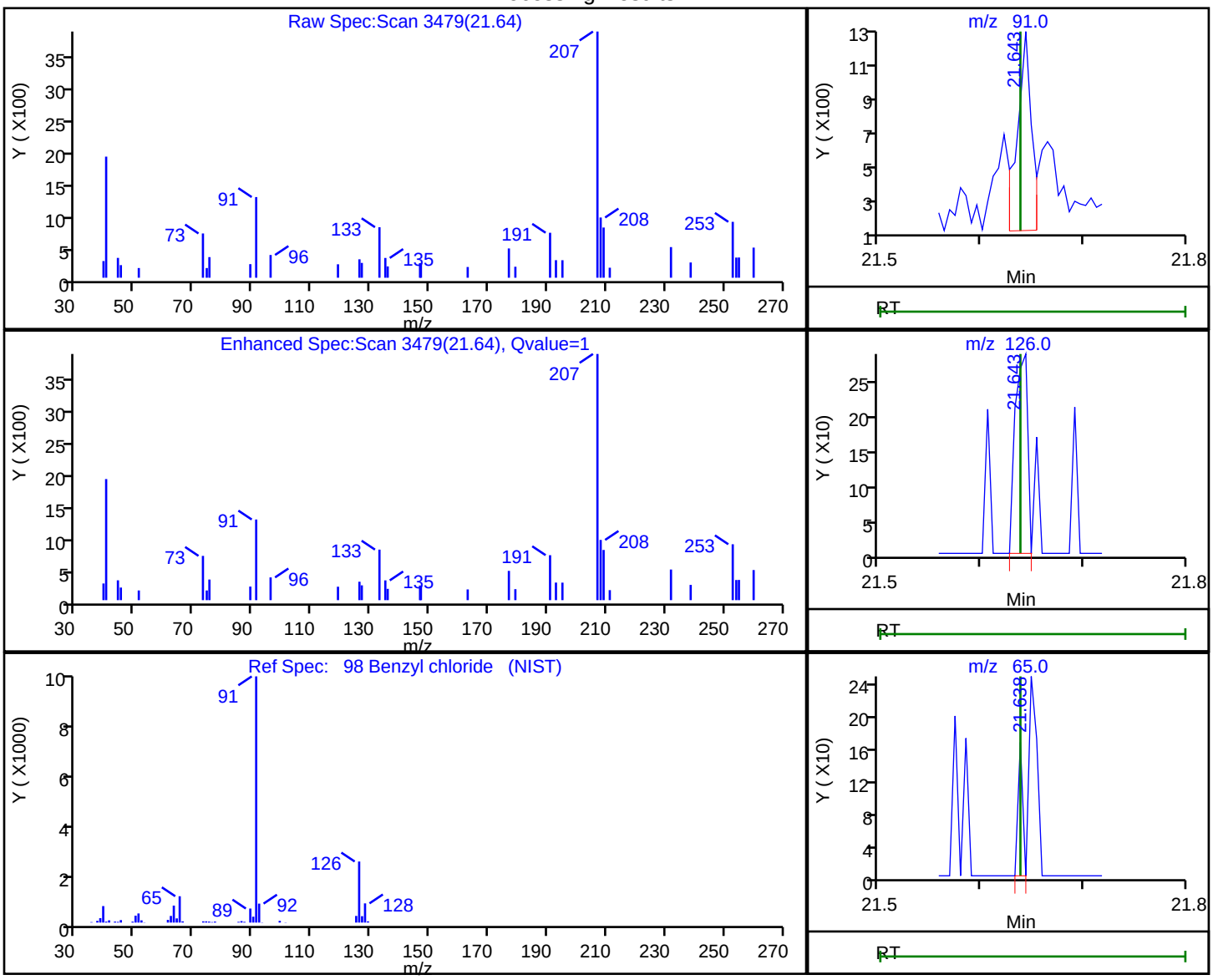
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.64 | 91.00 | 1079 | 0.012510 |
| 21.64 | 126.00 | 243 | |
| 21.64 | 65.00 | 52 | |

Reviewer: puangmaleek, 01-Nov-2018 09:52:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

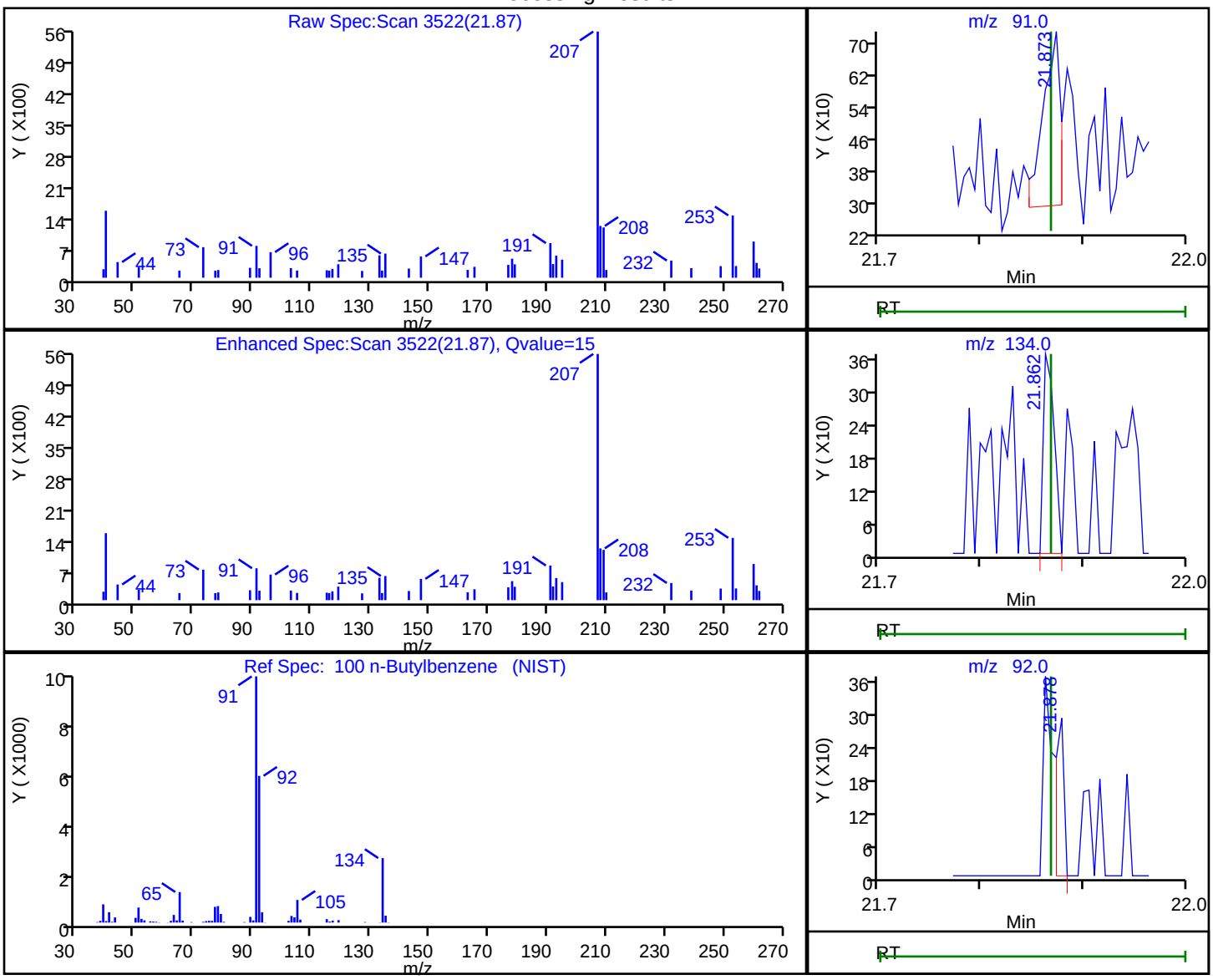
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.87 | 91.00 | 514 | 0.005251 |
| 21.86 | 134.00 | 268 | |
| 21.88 | 92.00 | 161 | |

Reviewer: puangmaleek, 01-Nov-2018 09:52:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

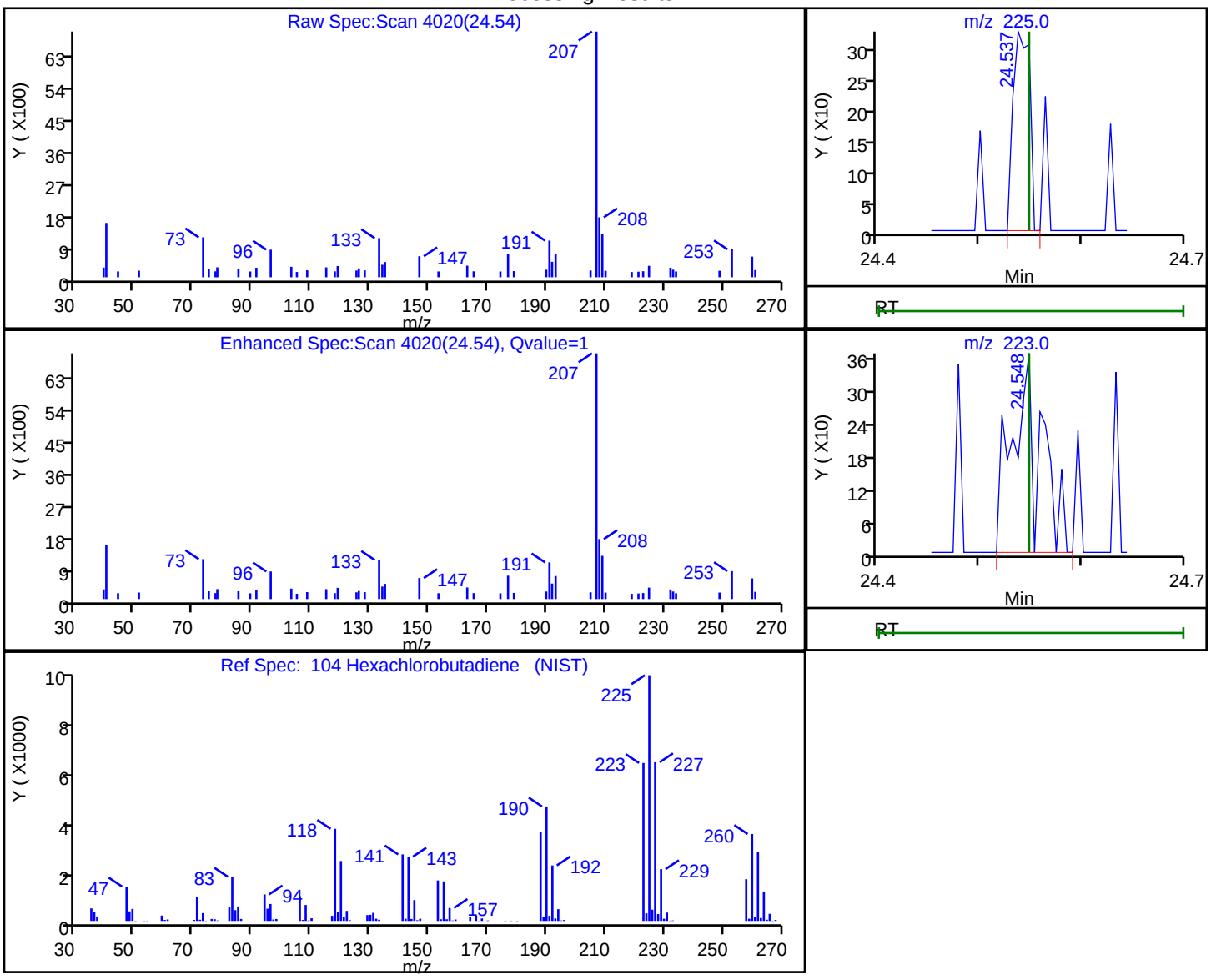
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D | | | | |
| Injection Date: | 31-Oct-2018 15:37:30 | Instrument ID: | CHG.i | | |
| Lims ID: | mb | | | | |
| Client ID: | | | | | |
| Operator ID: | wrd | ALS Bottle#: | 4 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 1.0000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.54 | 225.00 | 368 | 0.007333 |
| 24.55 | 223.00 | 720 | |

Reviewer: puangmaleek, 01-Nov-2018 09:52:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab File ID: 200-32354-001.D BFB Injection Date: 09/25/2018

Instrument ID: CHG.i BFB Injection Time: 16:54

Analysis Batch No.: 134490

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 18.9 | |
| 75 | 30.0 - 66.0% of mass 95 | 47.3 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 | |
| 173 | Less than 2.0% of mass 174 | 0.3 | (0.4) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 77.4 | |
| 175 | 4.0 - 9.0 % of mass 174 | 5.3 | (6.8) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 76.7 | (99.0) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 | (6.4) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 200-134490/6 | 200-32354-006.D | 09/25/2018 | 21:05 |
| | IC 200-134490/7 | 200-32354-007.D | 09/25/2018 | 21:56 |
| | ICIS 200-134490/8 | 200-32354-008.D | 09/25/2018 | 22:46 |
| | IC 200-134490/9 | 200-32354-009.D | 09/25/2018 | 23:36 |
| | IC 200-134490/10 | 200-32354-010.D | 09/26/2018 | 00:26 |
| | IC 200-134490/11 | 200-32354-011.D | 09/26/2018 | 01:17 |
| | ICV 200-134490/15 | 200-32354-015.D | 09/26/2018 | 04:37 |
| | IC 200-134490/19 | 200-32354-019.D | 09/26/2018 | 12:01 |
| | IC 200-134490/22 | 200-32354-022.D | 09/26/2018 | 14:32 |

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab File ID: 200-32939-001.D BFB Injection Date: 10/31/2018

Instrument ID: CHG.i BFB Injection Time: 12:13

Analysis Batch No.: 136163

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 25.3 | |
| 75 | 30.0 - 66.0% of mass 95 | 56.2 | |
| 95 | Base peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 | |
| 173 | Less than 2.0% of mass 174 | 0.3 | (0.4) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 74.3 | |
| 175 | 4.0 - 9.0 % of mass 174 | 5.1 | (6.9) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 72.2 | (97.3) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.7 | (6.6) 2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 200-136163/3 | 200-32939-003.D | 10/31/2018 | 13:56 |
| | LCS 200-136163/4 | 200-32939-004.D | 10/31/2018 | 14:46 |
| | MB 200-136163/5 | 200-32939-005.D | 10/31/2018 | 15:37 |
| 5621 | 200-45925-11 | 200-32939-018.D | 11/01/2018 | 02:29 |

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Sample No.: ICIS 200-134490/8 Date Analyzed: 09/25/2018 22:46

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 200-32354-008.D Heated Purge: (Y/N) N

Calibration ID: 40146

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 428432 | 9.19 | 1996468 | 11.06 | 1799336 | 17.00 |
| UPPER LIMIT | | 599805 | 9.52 | 2795055 | 11.39 | 2519070 | 17.33 |
| LOWER LIMIT | | 257059 | 8.86 | 1197881 | 10.73 | 1079602 | 16.67 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 200-134490/15 | | 397676 | 9.19 | 1833691 | 11.06 | 1664621 | 17.01 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Sample No.: CCVIS 200-136163/3 Date Analyzed: 10/31/2018 13:56

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 200-32939-003.D Heated Purge: (Y/N) N

Calibration ID: 40146

| | | BCM | | DFBZ | | CBNZd5 | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 278679 | 9.17 | 1180689 | 11.04 | 1128406 | 16.98 |
| UPPER LIMIT | | 390151 | 9.50 | 1652965 | 11.37 | 1579768 | 17.31 |
| LOWER LIMIT | | 167207 | 8.84 | 708413 | 10.71 | 677044 | 16.65 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 200-136163/4 | | 278291 | 9.17 | 1155691 | 11.04 | 1088042 | 16.98 |
| MB 200-136163/5 | | 306593 | 9.17 | 1398299 | 11.04 | 1131514 | 16.98 |
| 200-45925-11 | 5621 | 274503 | 9.17 | 1215623 | 11.04 | 982684 | 16.98 |

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-45925-1

SDG No.:

Client Sample ID: 5621 | Lab Sample ID: 200-45925-11

Matrix: Air | Lab File ID: 200-32939-018.D

Analysis Method: TO-15 | Date Collected: 10/28/2018 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 11/01/2018 02:29

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 136163 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 115-07-1 | Propylene | 1.0 | U | 1.0 | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | 0.10 | U | 0.10 | 0.10 |
| 75-45-6 | Freon 22 | 0.10 | U | 0.10 | 0.10 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.040 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.10 | 0.10 |
| 106-97-8 | n-Butane | 0.10 | U | 0.10 | 0.10 |
| 75-01-4 | Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 106-99-0 | 1,3-Butadiene | 0.040 | U | 0.040 | 0.040 |
| 74-83-9 | Bromomethane | 0.040 | U | 0.040 | 0.040 |
| 75-00-3 | Chloroethane | 0.10 | U | 0.10 | 0.10 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 0.040 | U | 0.040 | 0.040 |
| 75-69-4 | Trichlorofluoromethane | 0.040 | U | 0.040 | 0.040 |
| 64-17-5 | Ethanol | 1.0 | U | 1.0 | 1.0 |
| 76-13-1 | Freon TF | 0.040 | U | 0.040 | 0.040 |
| 75-35-4 | 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 67-64-1 | Acetone | 1.0 | U | 1.0 | 1.0 |
| 67-63-0 | Isopropyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 75-15-0 | Carbon disulfide | 0.10 | U | 0.10 | 0.10 |
| 107-05-1 | 3-Chloropropene | 0.10 | U | 0.10 | 0.10 |
| 75-09-2 | Methylene Chloride | 0.10 | U | 0.10 | 0.10 |
| 75-65-0 | tert-Butyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 1634-04-4 | Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.040 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 110-54-3 | n-Hexane | 0.040 | U | 0.040 | 0.040 |
| 75-34-3 | 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 108-05-4 | Vinyl acetate | 1.0 | U | 1.0 | 1.0 |
| 141-78-6 | Ethyl acetate | 1.0 | U | 1.0 | 1.0 |
| 78-93-3 | Methyl Ethyl Ketone | 0.10 | U | 0.10 | 0.10 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 540-59-0 | 1,2-Dichloroethene, Total | 0.080 | U | 0.080 | 0.080 |
| 67-66-3 | Chloroform | 0.040 | U | 0.040 | 0.040 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 110-82-7 | Cyclohexane | 0.040 | U | 0.040 | 0.040 |
| 56-23-5 | Carbon tetrachloride | 0.040 | U | 0.040 | 0.040 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-45925-1

SDG No.:

Client Sample ID: 5621 | Lab Sample ID: 200-45925-11

Matrix: Air | Lab File ID: 200-32939-018.D

Analysis Method: TO-15 | Date Collected: 10/28/2018 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 11/01/2018 02:29

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 136163 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 0.040 | U | 0.040 | 0.040 |
| 107-06-2 | 1,2-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 142-82-5 | n-Heptane | 0.040 | U * | 0.040 | 0.040 |
| 79-01-6 | Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 80-62-6 | Methyl methacrylate | 0.10 | U | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.040 | U | 0.040 | 0.040 |
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | 0.040 | U | 0.040 | 0.040 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 108-10-1 | methyl isobutyl ketone | 0.10 | U | 0.10 | 0.10 |
| 108-88-3 | Toluene | 0.040 | U | 0.040 | 0.040 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 127-18-4 | Tetrachloroethene | 0.040 | U | 0.040 | 0.040 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 0.10 | U | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.040 | U | 0.040 | 0.040 |
| 106-93-4 | 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.040 |
| 108-90-7 | Chlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 100-41-4 | Ethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 179601-23-1 | m,p-Xylene | 0.10 | U | 0.10 | 0.10 |
| 95-47-6 | Xylene, o- | 0.040 | U | 0.040 | 0.040 |
| 1330-20-7 | Xylene (total) | 0.14 | U | 0.14 | 0.14 |
| 100-42-5 | Styrene | 0.040 | U | 0.040 | 0.040 |
| 75-25-2 | Bromoform | 0.040 | U | 0.040 | 0.040 |
| 98-82-8 | Cumene | 0.040 | U | 0.040 | 0.040 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.040 |
| 103-65-1 | n-Propylbenzene | 0.040 | U | 0.040 | 0.040 |
| 622-96-8 | 4-Ethyltoluene | 0.040 | U | 0.040 | 0.040 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-49-8 | 2-Chlorotoluene | 0.040 | U | 0.040 | 0.040 |
| 98-06-6 | tert-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 135-98-8 | sec-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 99-87-6 | 4-Isopropyltoluene | 0.040 | U | 0.040 | 0.040 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-45925-1

SDG No.:

Client Sample ID: 5621  Lab Sample ID: 200-45925-11

Matrix: Air  Lab File ID: 200-32939-018.D

Analysis Method: TO-15  Date Collected: 10/28/2018 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 11/01/2018 02:29

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 136163  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 0.040 | U | 0.040 | 0.040 |
| 104-51-8 | n-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10 | U | 0.10 | 0.10 |
| 87-68-3 | Hexachlorobutadiene | 0.040 | U | 0.040 | 0.040 |
| 91-20-3 | Naphthalene | 0.10 | U | 0.10 | 0.10 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D
Lims ID: 200-45925-A-11
Client ID: 5621
Sample Type: Client
Inject. Date: 01-Nov-2018 02:29:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0032939-018
Misc. Info.: 45925-11
Operator ID: wrd Instrument ID: CHG.i

Method: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 01-Nov-2018 14:28:50 Calib Date: 26-Sep-2018 14:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20180925-32354.b\200-32354-022.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: puangmaleek Date: 01-Nov-2018 14:28:50

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 3.096 | | | | ND | U |
| 2 Dichlorodifluoromethane | 85 | | 3.149 | | | | ND | |
| 3 Chlorodifluoromethane | 51 | | 3.181 | | | | ND | U |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.347 | | | | ND | |
| 5 Chloromethane | 50 | | 3.460 | | | | ND | U |
| 6 Butane | 43 | | 3.609 | | | | ND | U |
| 7 Vinyl chloride | 62 | | 3.641 | | | | ND | |
| 8 Butadiene | 54 | | 3.695 | | | | ND | |
| 10 Bromomethane | 94 | | 4.214 | | | | ND | |
| 11 Chloroethane | 64 | | 4.385 | | | | ND | |
| 13 Vinyl bromide | 106 | | 4.695 | | | | ND | |
| 14 Trichlorofluoromethane | 101 | | 4.770 | | | | ND | |
| 17 Ethanol | 45 | | 5.209 | | | | ND | U |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.615 | | | | ND | U |
| 21 1,1-Dichloroethene | 96 | | 5.669 | | | | ND | U |
| 22 Acetone | 43 | | 5.867 | | | | ND | U |
| 23 Carbon disulfide | 76 | 6.038 | 6.038 | 0.011 | 39 | 1819 | 0.0290 | M |
| 24 Isopropyl alcohol | 45 | | 6.102 | | | | ND | |
| 25 3-Chloro-1-propene | 41 | | 6.322 | | | | ND | U |
| 27 Methylene Chloride | 49 | | 6.568 | | | | ND | U |
| 28 2-Methyl-2-propanol | 59 | | 6.782 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 6.948 | | | | ND | |
| 31 trans-1,2-Dichloroethene | 61 | | 6.964 | | | | ND | |
| 33 Hexane | 57 | | 7.301 | | | | ND | |
| 34 1,1-Dichloroethane | 63 | | 7.739 | | | | ND | |
| 35 Vinyl acetate | 43 | | 7.803 | | | | ND | |
| 37 cis-1,2-Dichloroethene | 96 | | 8.745 | | | | ND | |
| 38 2-Butanone (MEK) | 72 | | 8.804 | | | | ND | |
| 39 Ethyl acetate | 88 | | 8.841 | | | | ND | |
| * 40 Chlorobromomethane | 128 | 9.167 | 9.173 | -0.006 | 85 | 274503 | 10.0 | |
| 41 Tetrahydrofuran | 42 | | 9.226 | | | | ND | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 42 Chloroform | 83 | | 9.291 | | | | ND | |
| | 43 Cyclohexane | 84 | | 9.547 | | | | ND | |
| | 44 1,1,1-Trichloroethane | 97 | | 9.564 | | | | ND | |
| S | 30 1,2-Dichloroethene, Total | 61 | | 9.665 | | | | ND | |
| | 45 Carbon tetrachloride | 117 | | 9.799 | | | | ND | |
| | 46 Isooctane | 57 | | 10.216 | | | | ND | |
| | 47 Benzene | 78 | | 10.238 | | | | ND | U |
| | 48 1,2-Dichloroethane | 62 | | 10.403 | | | | ND | |
| | 49 n-Heptane | 43 | | 10.585 | | | | ND | |
| * | 50 1,4-Difluorobenzene | 114 | 11.035 | 11.040 | -0.005 | 95 | 1215623 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.505 | | | | ND | |
| | 54 1,2-Dichloropropane | 63 | | 12.046 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 12.228 | | | | ND | |
| | 57 Dibromomethane | 174 | | 12.292 | | | | ND | U |
| | 56 1,4-Dioxane | 88 | | 12.297 | | | | ND | |
| | 58 Dichlorobromomethane | 83 | | 12.581 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 13.496 | | | | ND | |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.811 | | | | ND | |
| | 65 Toluene | 92 | | 14.084 | | | | ND | U |
| | 66 trans-1,3-Dichloropropene | 75 | | 14.678 | | | | ND | |
| | 67 1,1,2-Trichloroethane | 83 | | 15.047 | | | | ND | |
| | 68 Tetrachloroethene | 166 | | 15.165 | | | | ND | |
| | 69 2-Hexanone | 43 | | 15.528 | | | | ND | |
| | 71 Chlorodibromomethane | 129 | | 15.807 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 16.069 | | | | ND | |
| * | 74 Chlorobenzene-d5 | 117 | 16.978 | 16.984 | -0.006 | 90 | 982684 | 10.0 | |
| | 75 Chlorobenzene | 112 | | 17.042 | | | | ND | |
| | 76 Ethylbenzene | 91 | | 17.208 | | | | ND | U |
| | 78 m-Xylene & p-Xylene | 106 | | 17.465 | | | | ND | U |
| | 79 o-Xylene | 106 | | 18.316 | | | | ND | |
| | 80 Styrene | 104 | | 18.369 | | | | ND | |
| | 81 Bromoform | 173 | | 18.808 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 19.065 | | | | ND | |
| S | 73 Xylenes, Total | 106 | | 19.600 | | | | ND | |
| | 84 1,1,2,2-Tetrachloroethane | 83 | | 19.787 | | | | ND | |
| | 85 N-Propylbenzene | 91 | | 19.867 | | | | ND | U |
| | 89 2-Chlorotoluene | 91 | | 20.070 | | | | ND | U |
| | 88 4-Ethyltoluene | 105 | | 20.076 | | | | ND | U |
| | 90 1,3,5-Trimethylbenzene | 105 | | 20.193 | | | | ND | U |
| | 92 tert-Butylbenzene | 119 | | 20.712 | | | | ND | U |
| | 93 1,2,4-Trimethylbenzene | 105 | | 20.814 | | | | ND | U |
| | 94 sec-Butylbenzene | 105 | | 21.060 | | | | ND | U |
| | 95 4-Isopropyltoluene | 119 | | 21.279 | | | | ND | |
| | 96 1,3-Dichlorobenzene | 146 | 21.290 | 21.283 | 0.000 | 1 | 827 | 0.0132 | |
| | 97 1,4-Dichlorobenzene | 146 | 21.429 | 21.428 | -0.005 | 1 | 822 | 0.0134 | |
| | 98 Benzyl chloride | 91 | | 21.638 | | | | ND | U |
| | 100 n-Butylbenzene | 91 | | 21.868 | | | | ND | U |
| | 101 1,2-Dichlorobenzene | 146 | | 21.964 | | | | ND | U |
| | 103 1,2,4-Trichlorobenzene | 180 | 24.355 | 24.348 | 0.000 | 1 | 1098 | 0.0315 | |
| | 104 Hexachlorobutadiene | 225 | | 24.548 | | | | ND | U |
| | 105 Naphthalene | 128 | 24.810 | 24.810 | 0.011 | 1 | 2309 | 0.0372 | M |

## QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

## Reagents:

| | | | | |
|---|---|---|---|---|
| ATTO15GIS_00015 | Amount Added: | 20.00 | Units: mL | Run Reagent |

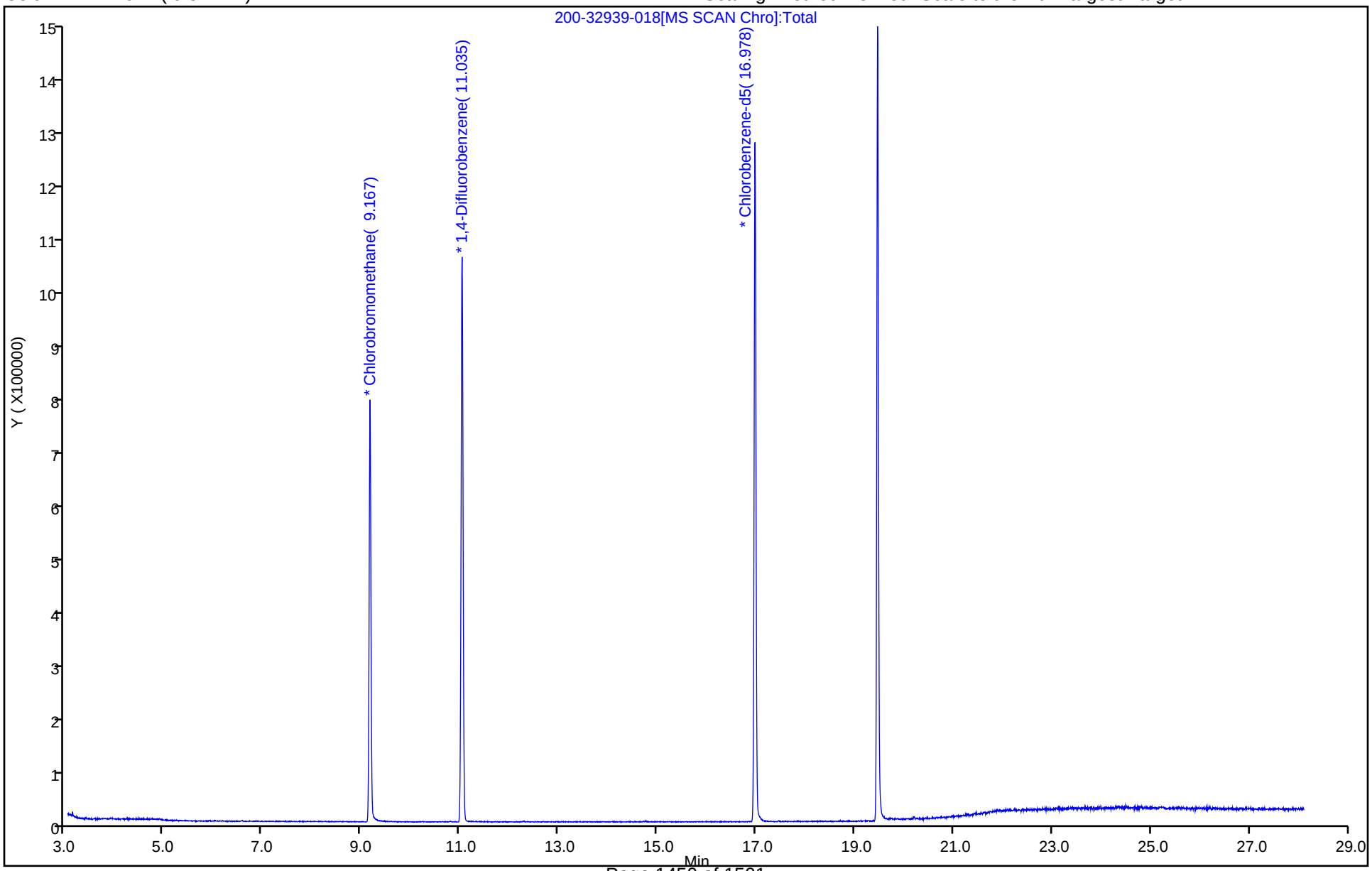
Report Date: 01-Nov-2018 14:28:51 Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | Operator ID: | wrd |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | Worklist Smp#: | 18 |
| Client ID: | 5621 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | ALS Bottle#: | 15 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



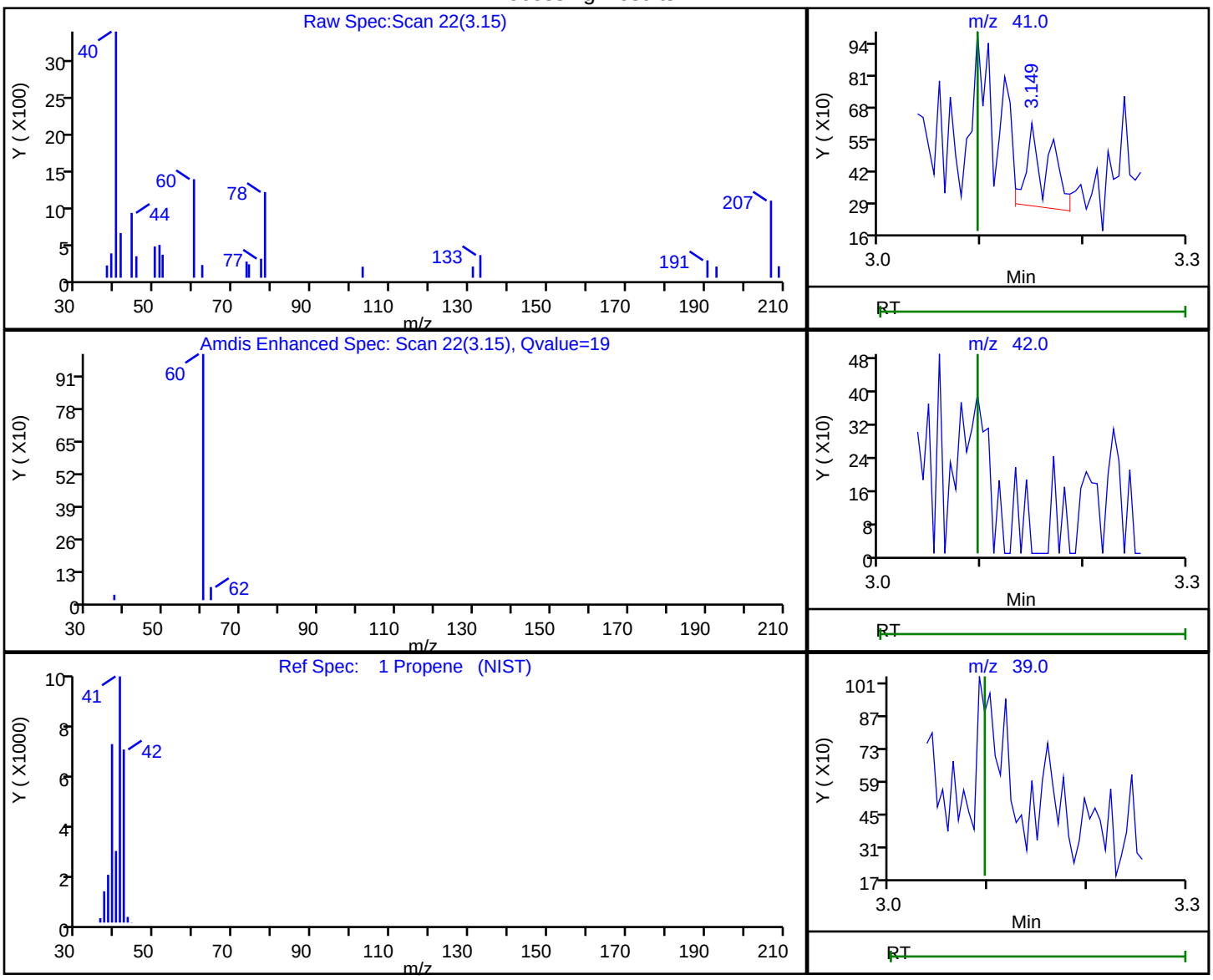
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 1 Propene, CAS: 115-07-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.15 | 41.00 | 515 | 0.031586 |
| 3.10 | 42.00 | 0 | |
| 3.10 | 39.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:26:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

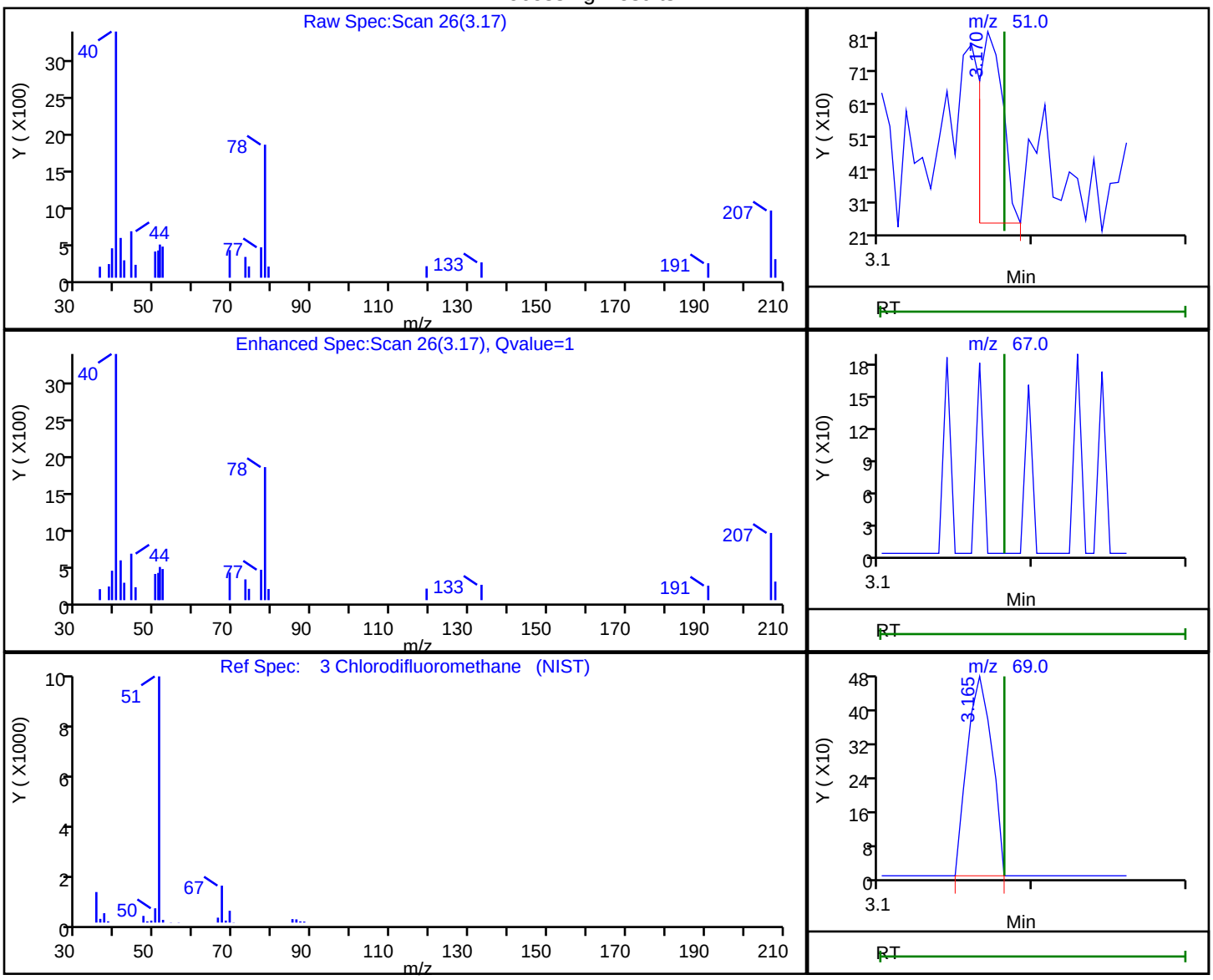
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.17 | 51.00 | 623 | 0.015302 |
| 3.17 | 69.00 | 540 | |
| 3.18 | 67.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:26:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

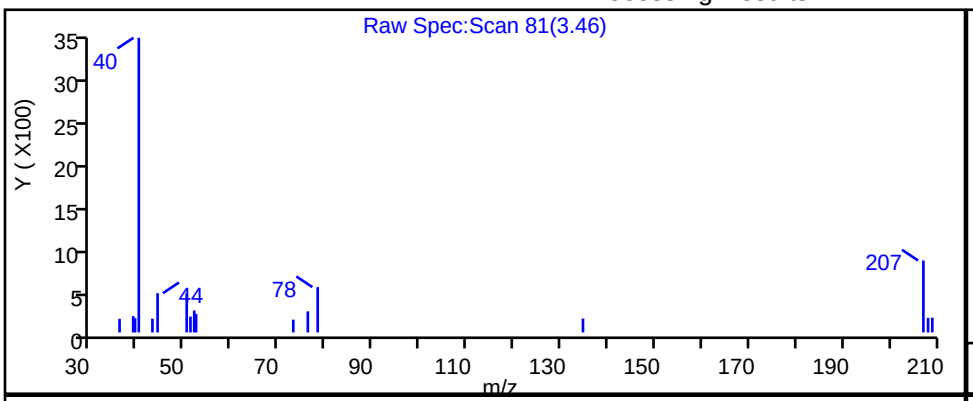
User Disabled Compound Report

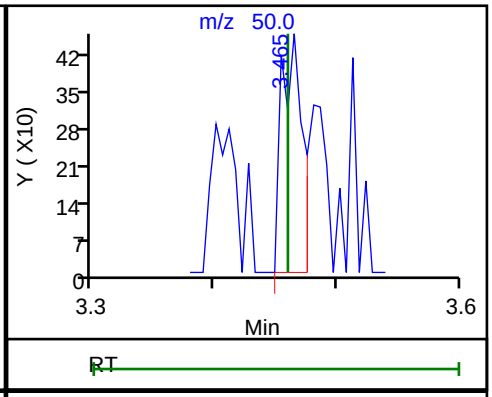
TestAmerica Burlington

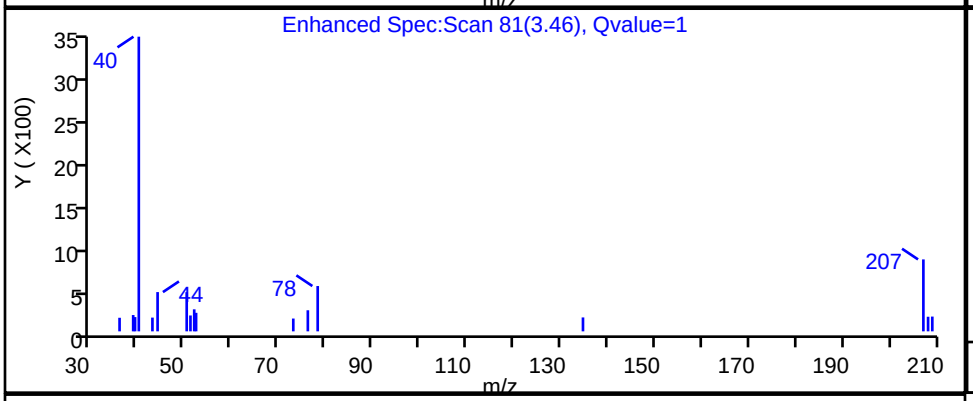
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

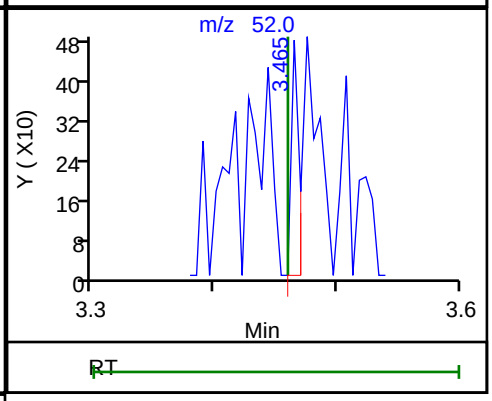
## 5 Chloromethane, CAS: 74-87-3

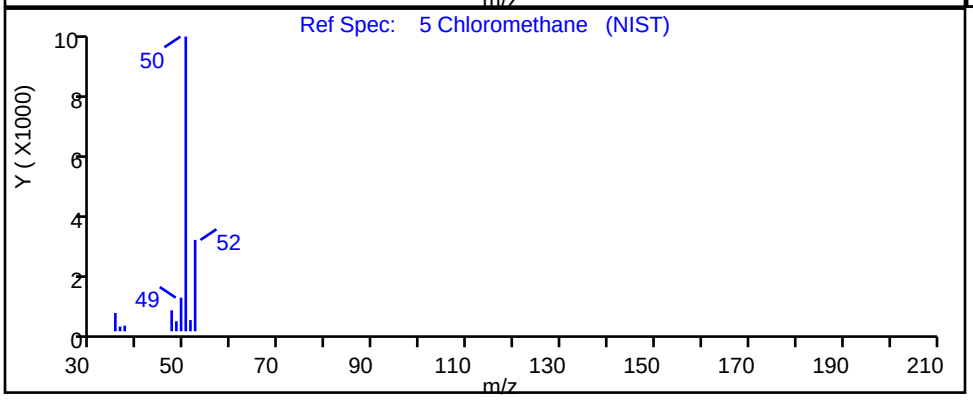
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.46 | 50.00 | 548 | 0.028974 |
| 3.46 | 52.00 | 207 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

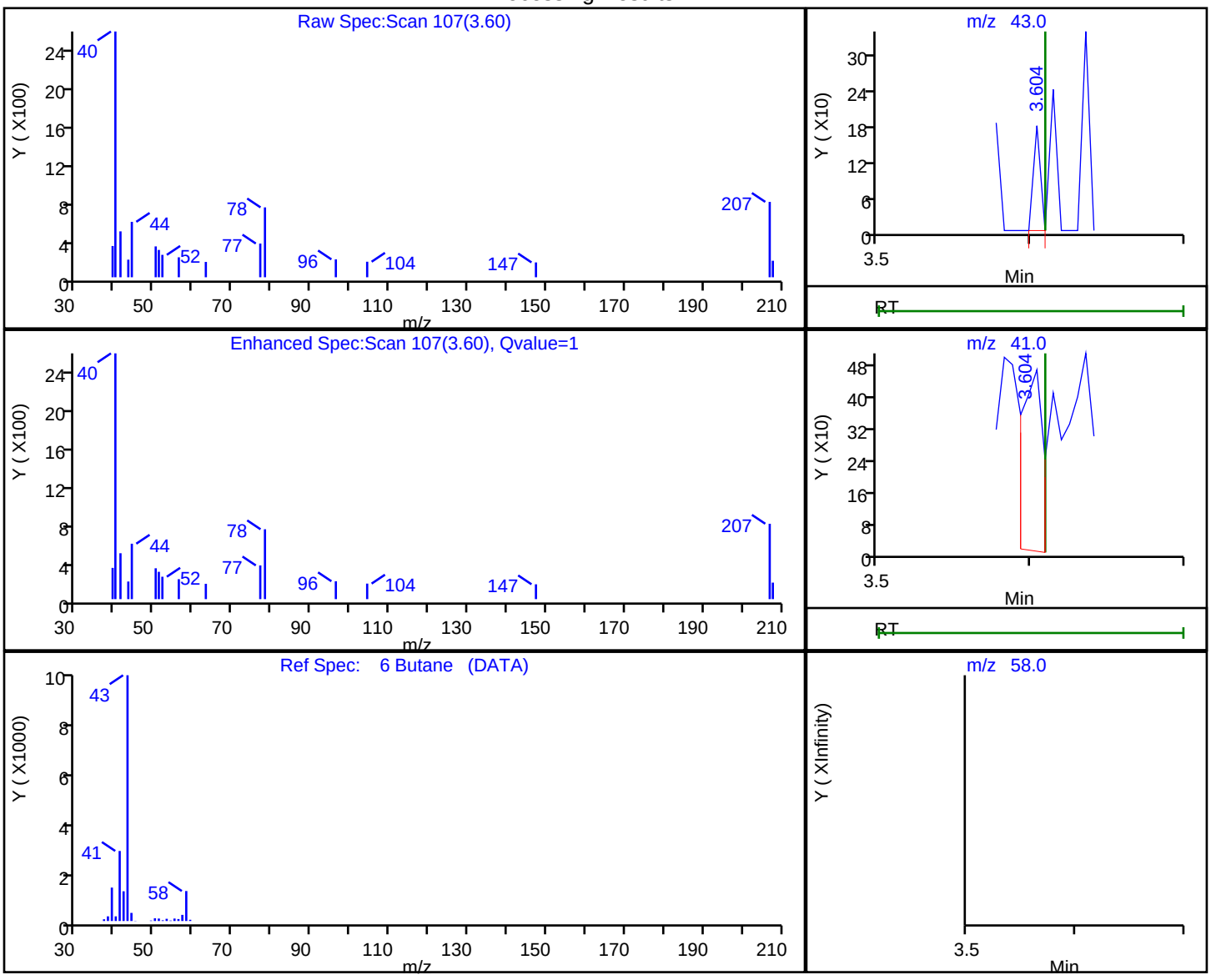
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 6 Butane, CAS: 106-97-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 3.60 | 43.00 | 57 | 0.002265 |
| 3.60 | 41.00 | 463 | |
| 3.61 | 58.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

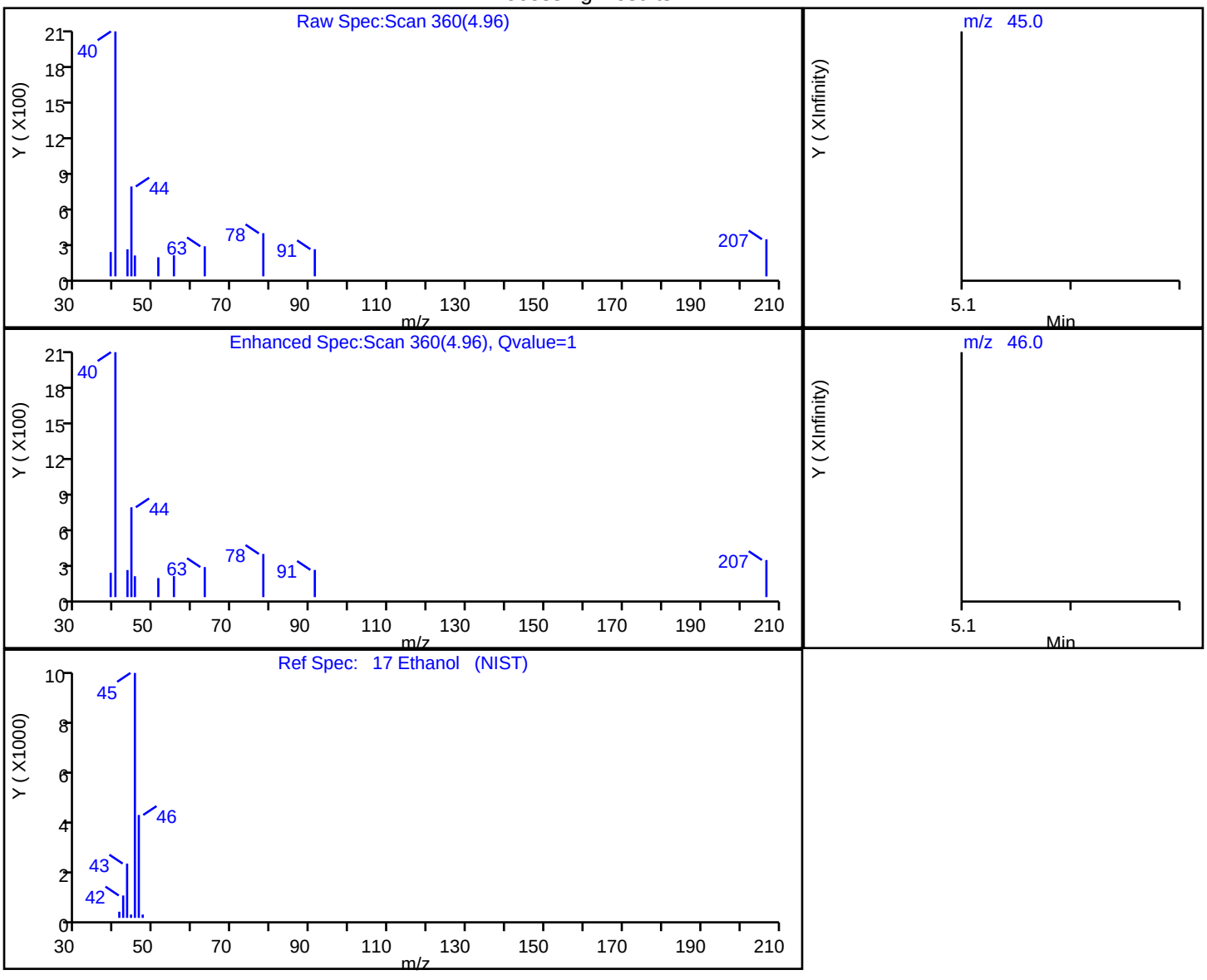
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 17 Ethanol, CAS: 64-17-5

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 4.96 | 45.00 | 155 | 0.023847 |
| 5.21 | 46.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

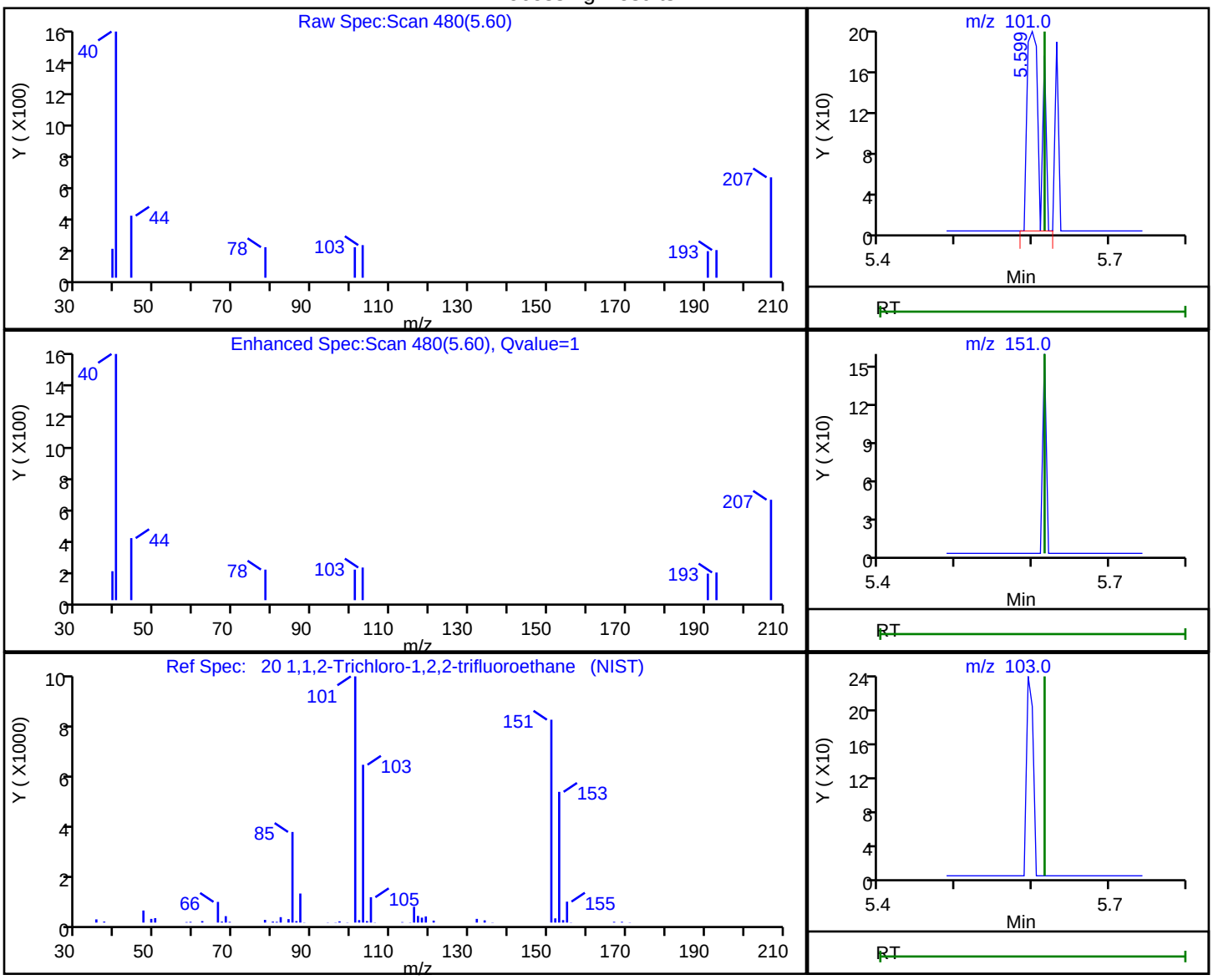
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.60 | 101.00 | 230 | 0.004281 |
| 5.62 | 151.00 | 0 | |
| 5.62 | 103.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

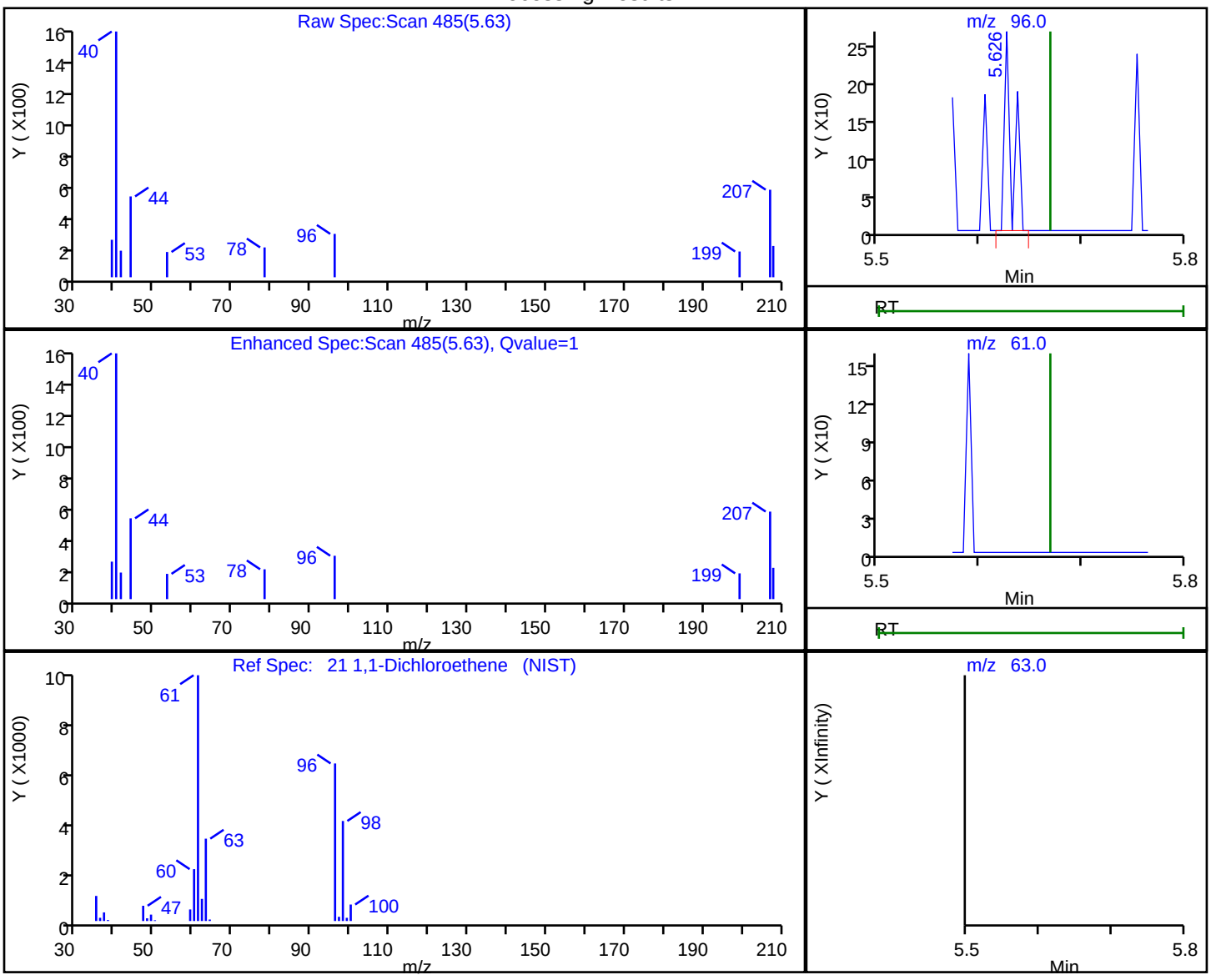
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.63 | 96.00 | 145 | 0.006194 |
| 5.67 | 61.00 | 0 | |
| 5.67 | 63.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

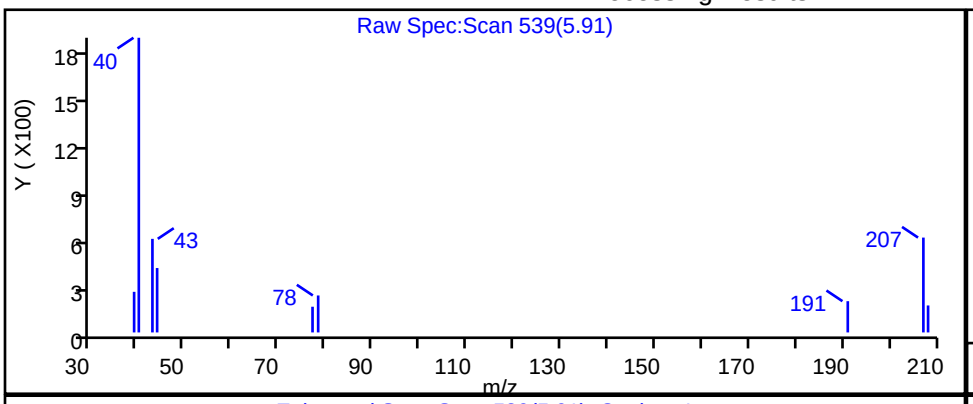
User Disabled Compound Report

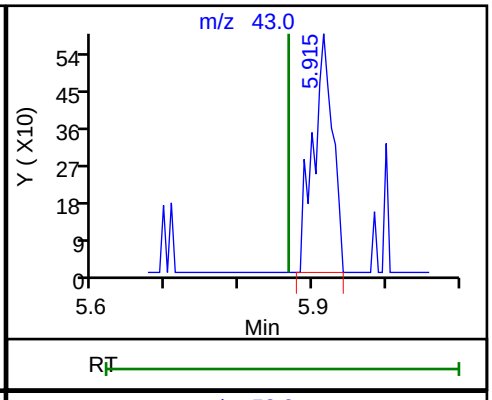
TestAmerica Burlington

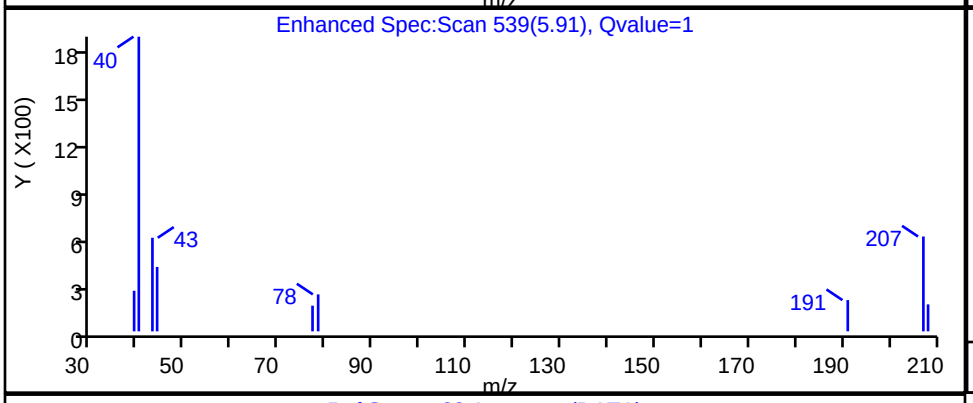
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

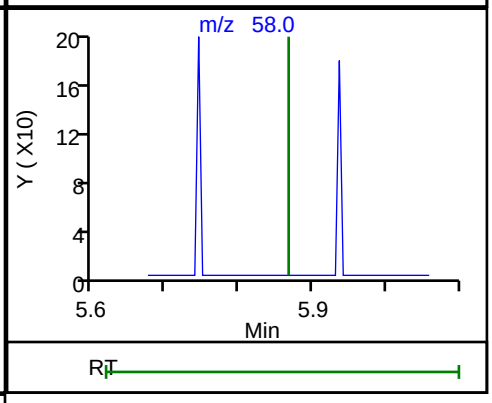
## 22 Acetone, CAS: 67-64-1

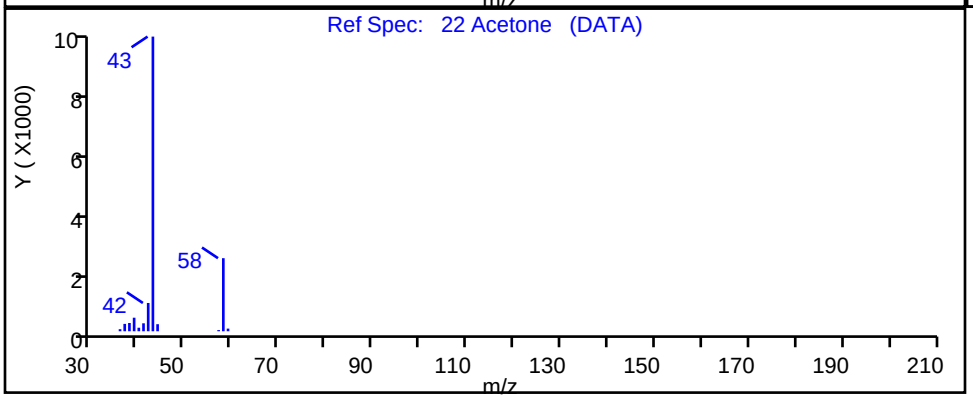
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 5.91 | 43.00 | 1091 | 0.046718 |
| 5.87 | 58.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

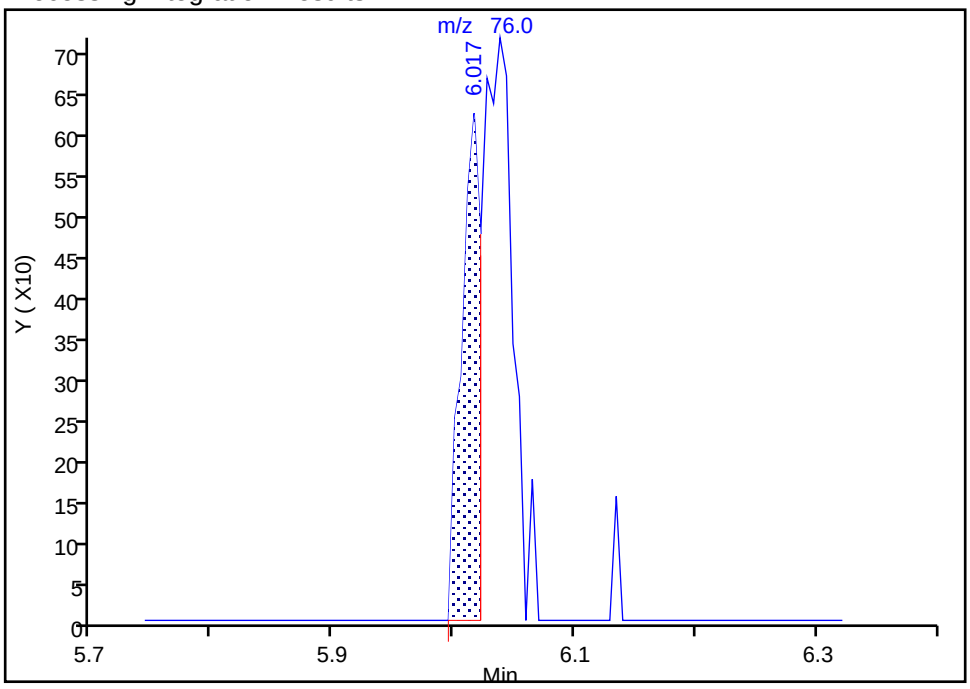
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 23 Carbon disulfide, CAS: 75-15-0

Signal: 1

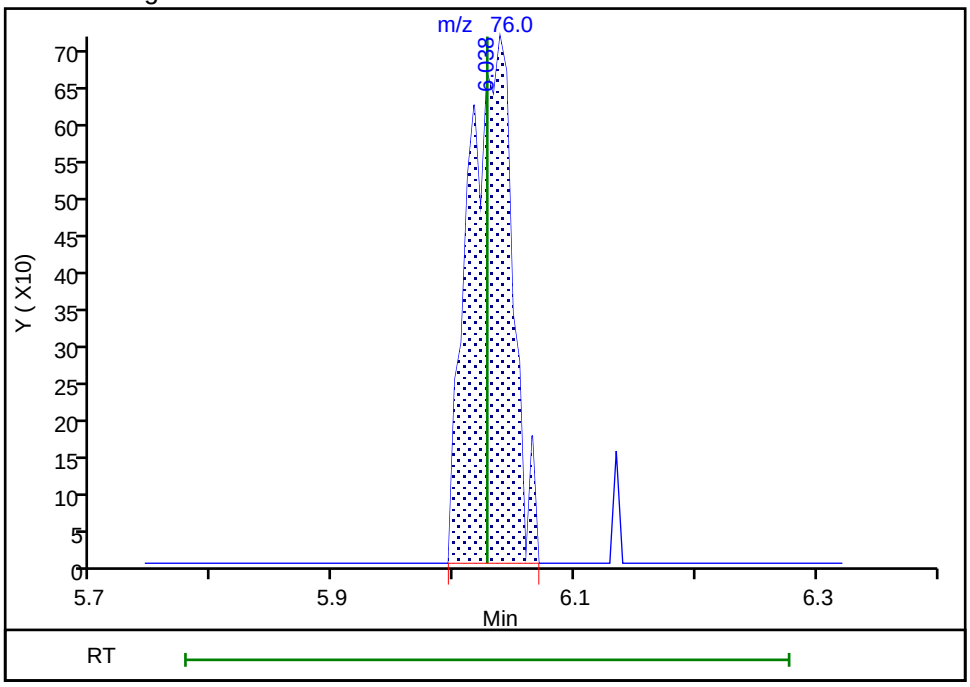
Processing Integration Results

RT: 6.02
Area: 700
Amount: 0.011160
Amount Units: ppb v/v




Manual Integration Results

RT: 6.04
Area: 1819
Amount: 0.029000
Amount Units: ppb v/v




Reviewer: puangmaleek, 01-Nov-2018 14:27:37

Audit Action: Manually Integrated Audit Reason: Assign Peak

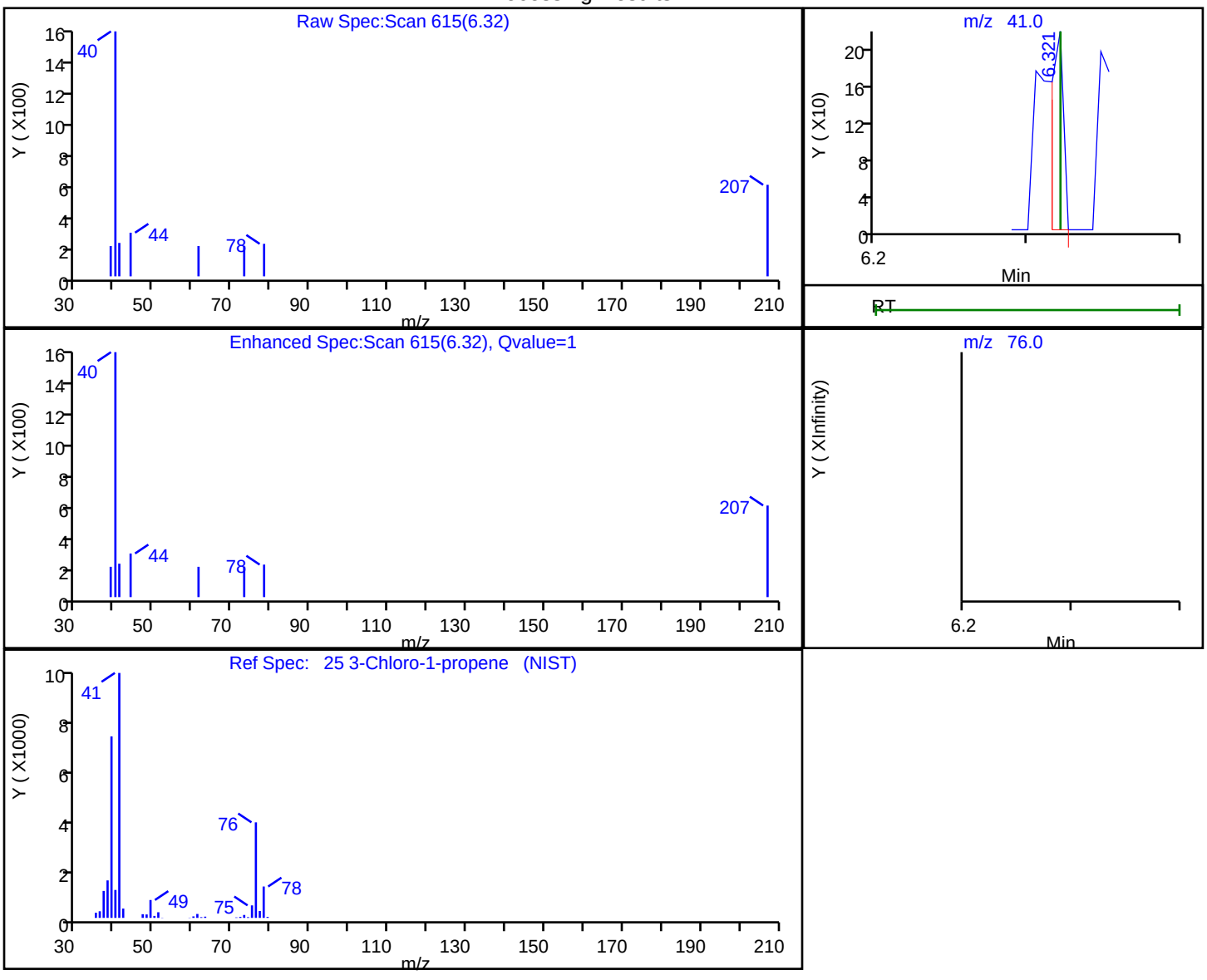
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.32 | 41.00 | 121 | 0.006565 |
| 6.32 | 76.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

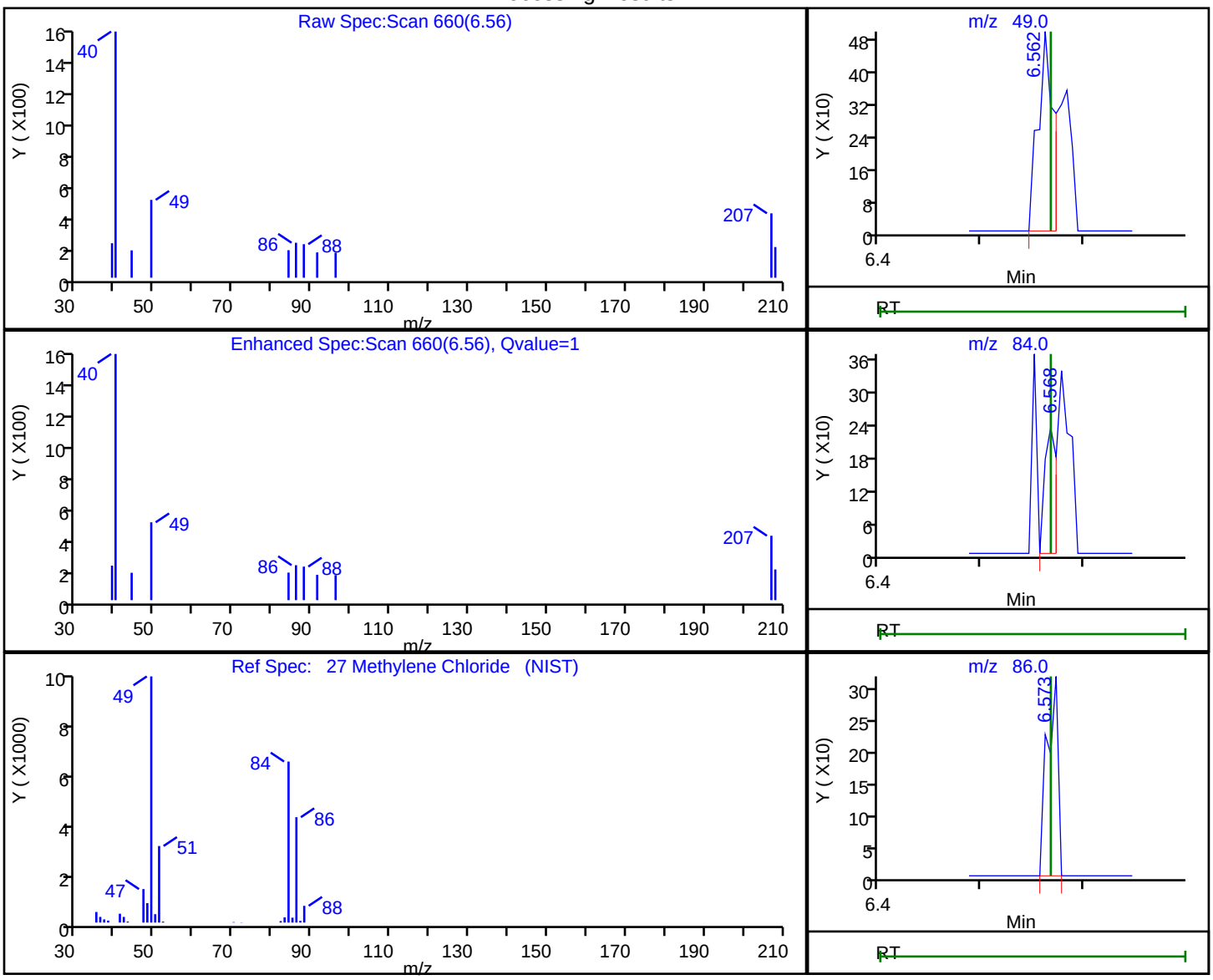
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 6.56 | 49.00 | 509 | 0.023415 |
| 6.57 | 84.00 | 187 | |
| 6.57 | 86.00 | 232 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

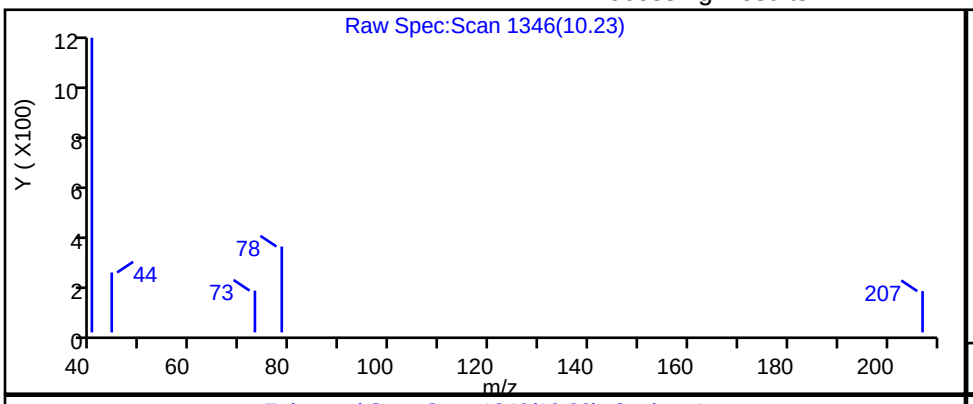
User Disabled Compound Report

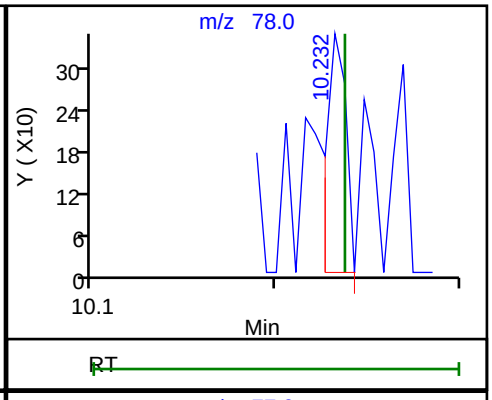
TestAmerica Burlington

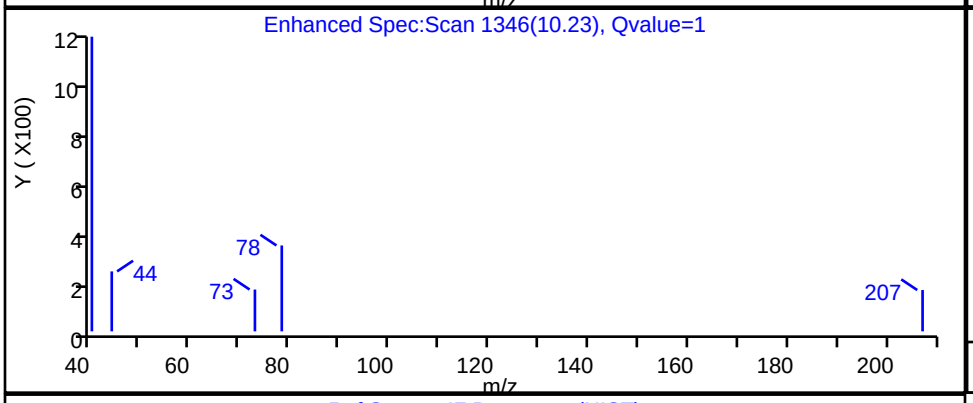
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

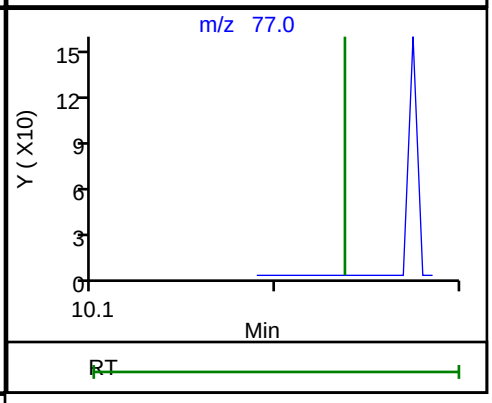
## 47 Benzene, CAS: 71-43-2

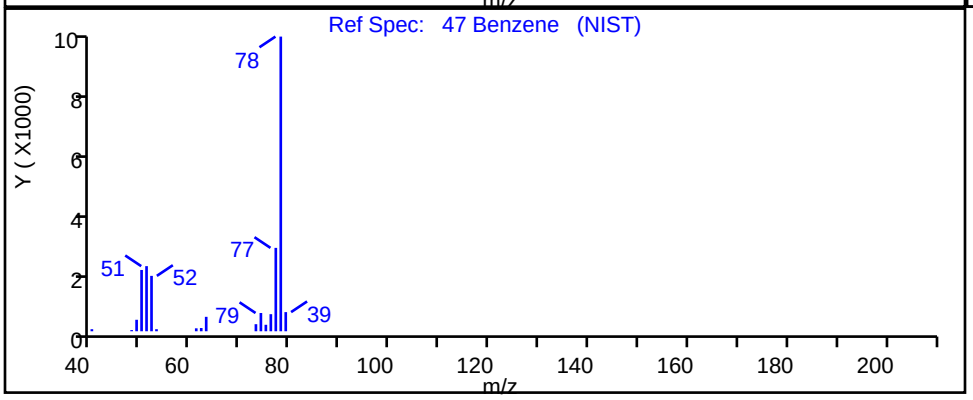
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 10.23 | 78.00 | 249 | 0.003936 |
| 10.24 | 77.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:27:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

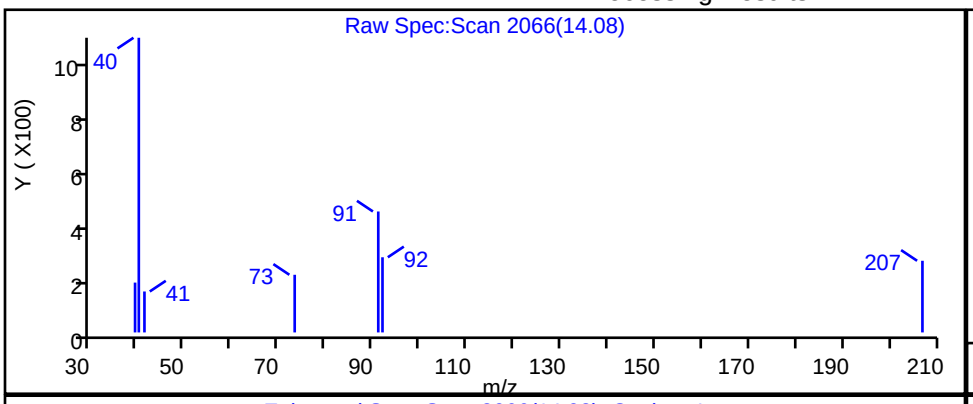
User Disabled Compound Report

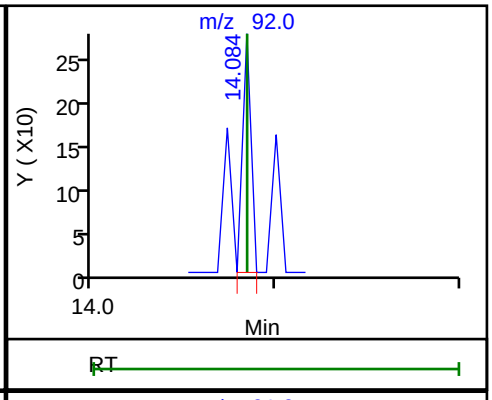
TestAmerica Burlington

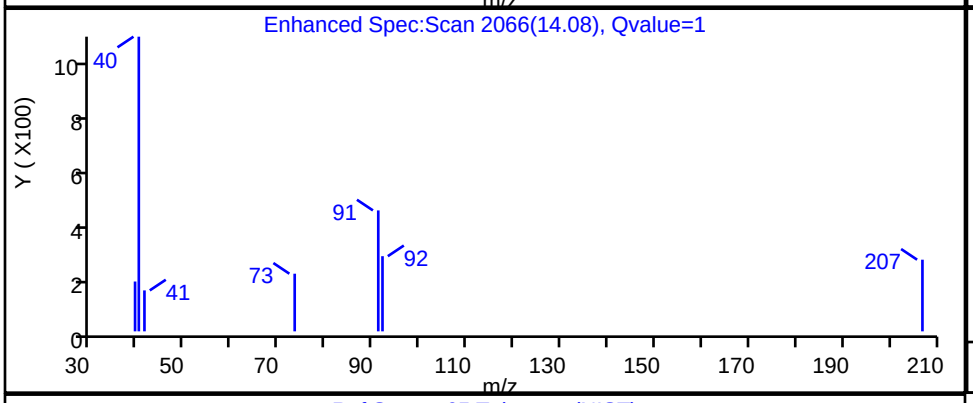
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

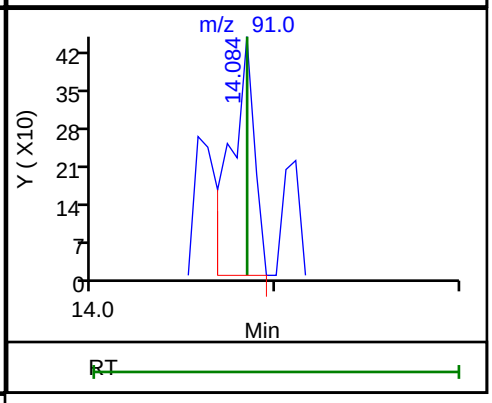
## 65 Toluene, CAS: 108-88-3

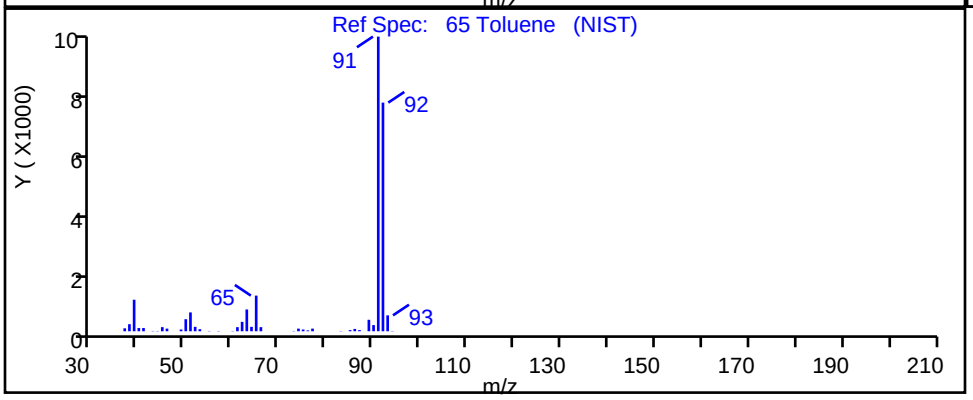
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 14.08 | 92.00 | 90 | 0.002067 |
| 14.08 | 91.00 | 407 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

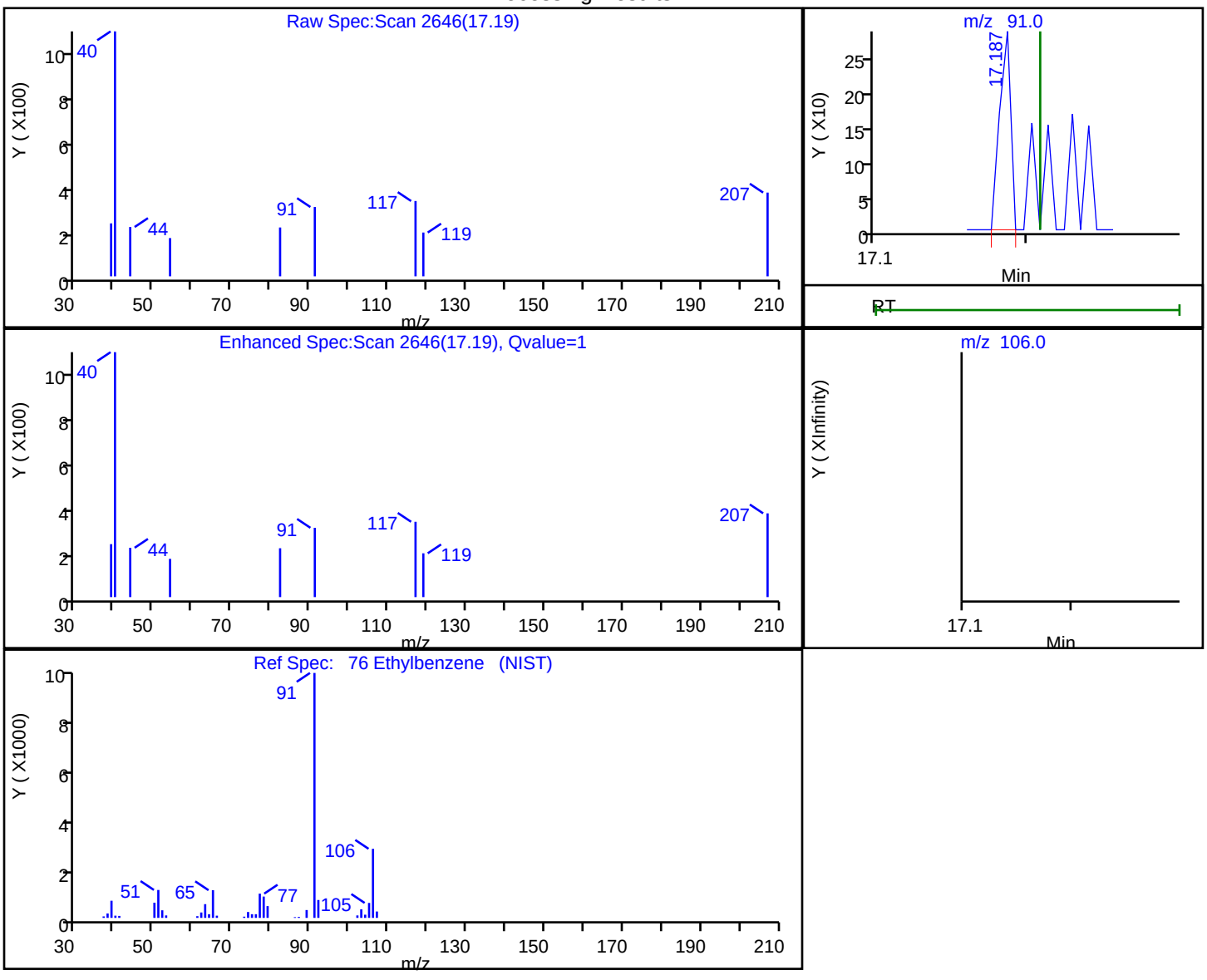
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 76 Ethylbenzene, CAS: 100-41-4

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.19 | 91.00 | 147 | 0.001554 |
| 17.21 | 106.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

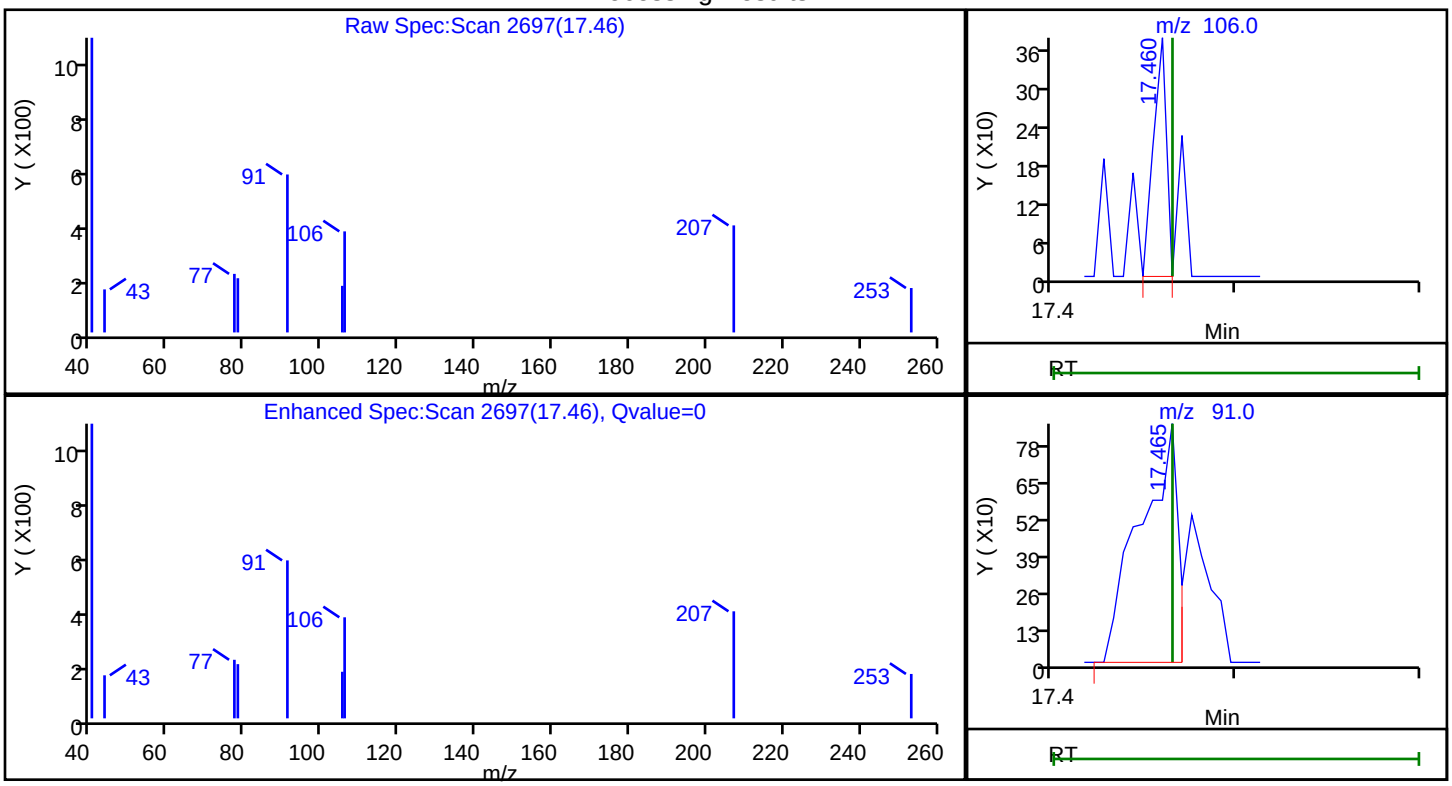
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 17.46 | 106.00 | 183 | 0.004836 |
| 17.46 | 91.00 | 1227 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

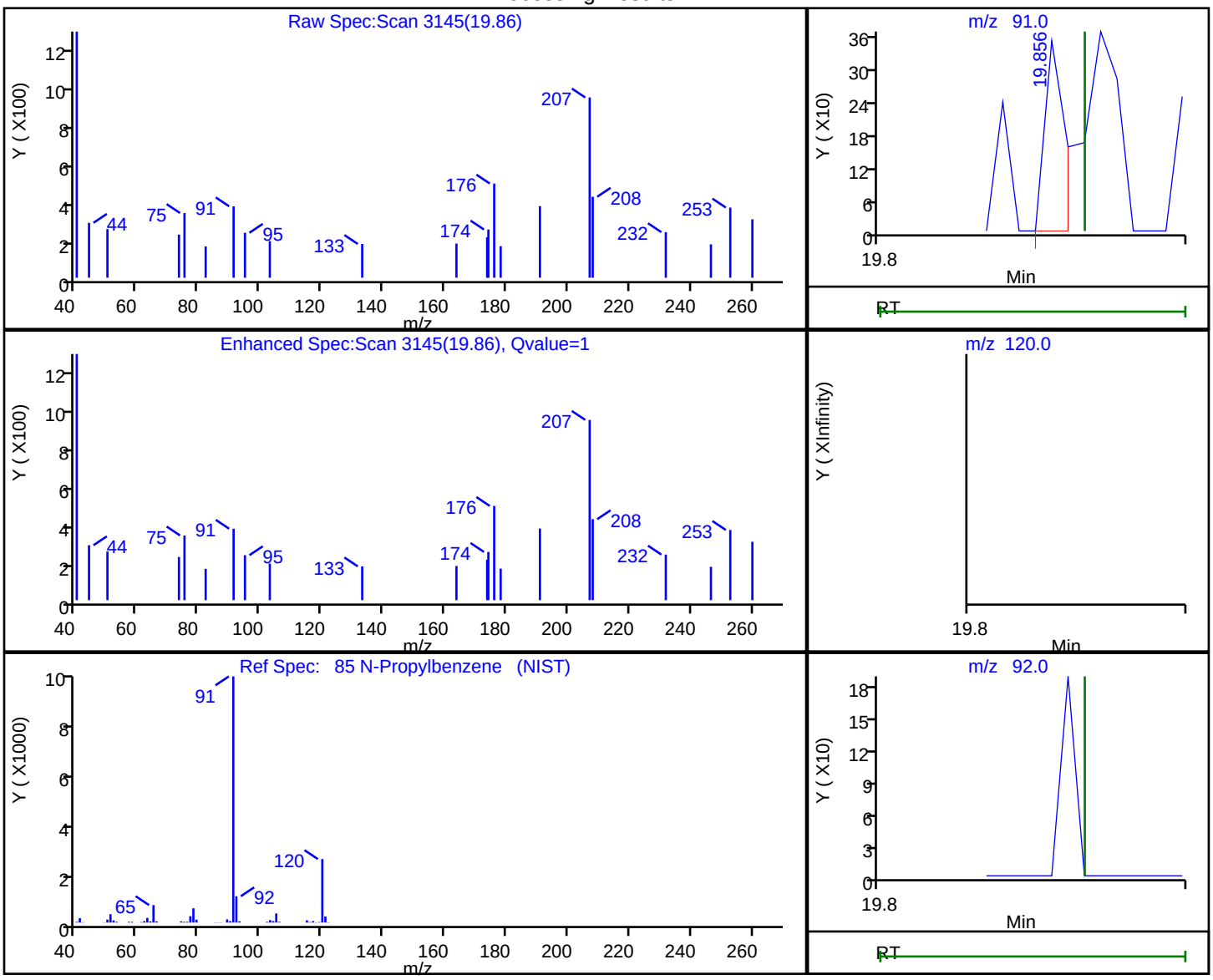
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 85 N-Propylbenzene, CAS: 103-65-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 19.86 | 91.00 | 162 | 0.001350 |
| 19.87 | 120.00 | 0 | |
| 19.87 | 92.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

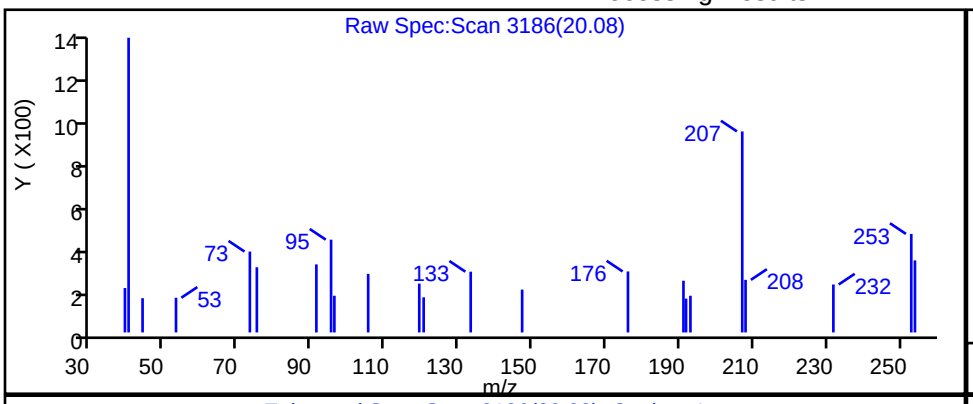
User Disabled Compound Report

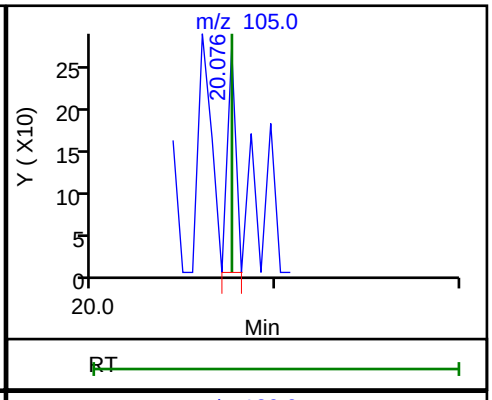
TestAmerica Burlington

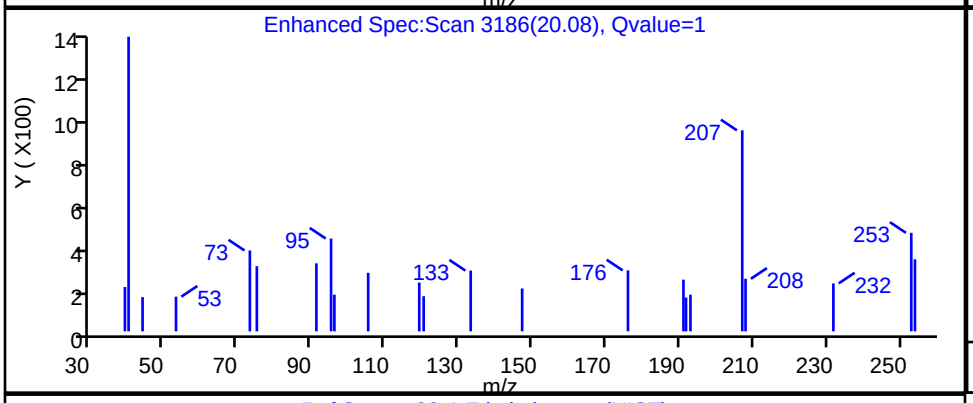
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

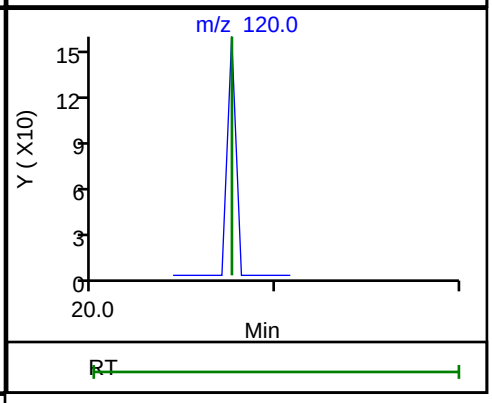
## 88 4-Ethyltoluene, CAS: 622-96-8

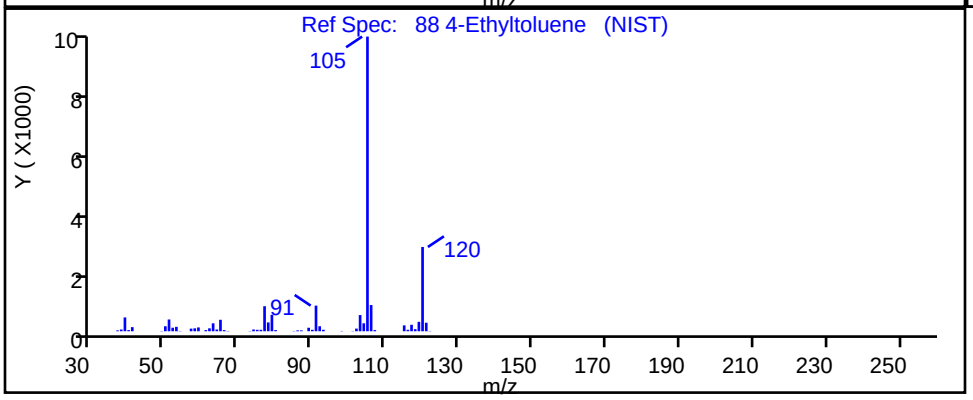
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.08 | 105.00 | 85 | 0.000879 |
| 20.08 | 120.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

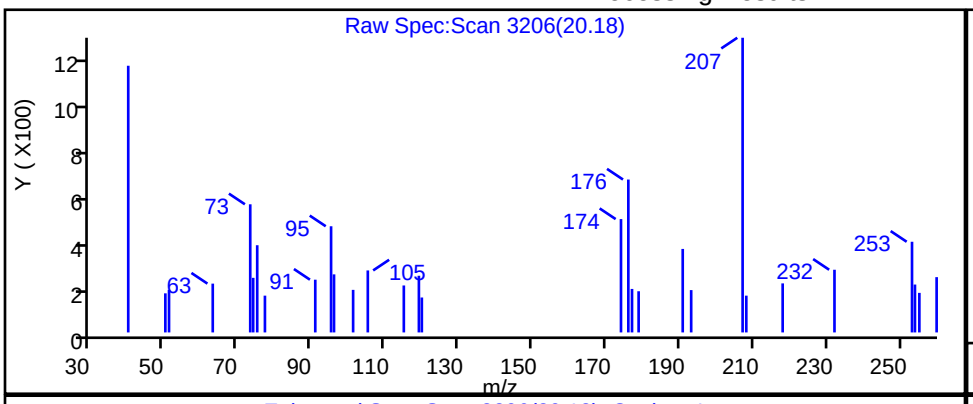
User Disabled Compound Report

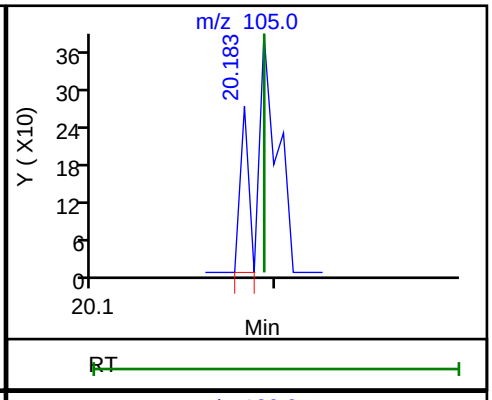
TestAmerica Burlington

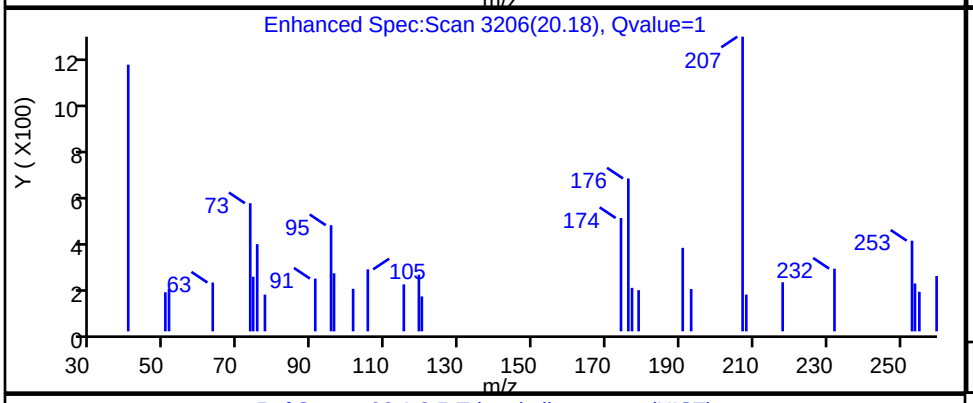
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

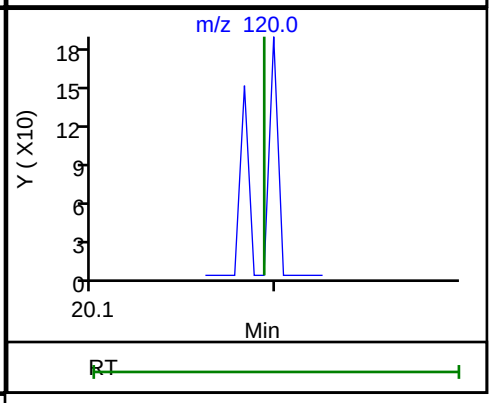
## 90 1,3,5-Trimethylbenzene, CAS: 108-67-8

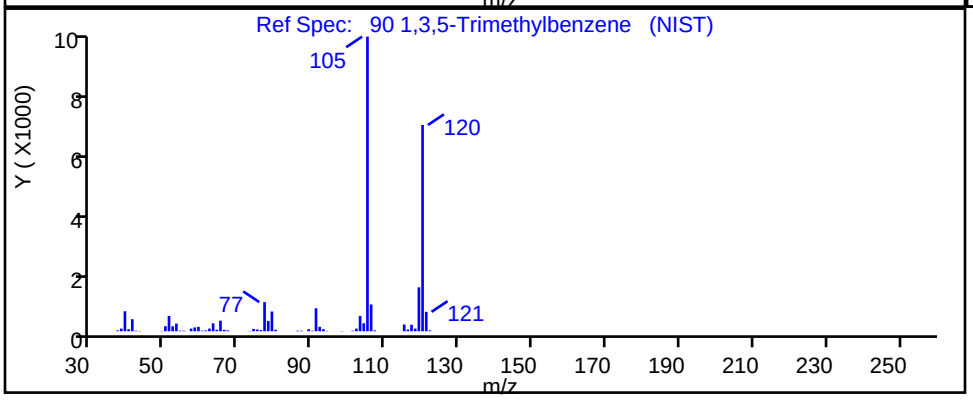
Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.18 | 105.00 | 86 | 0.001020 |
| 20.19 | 120.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

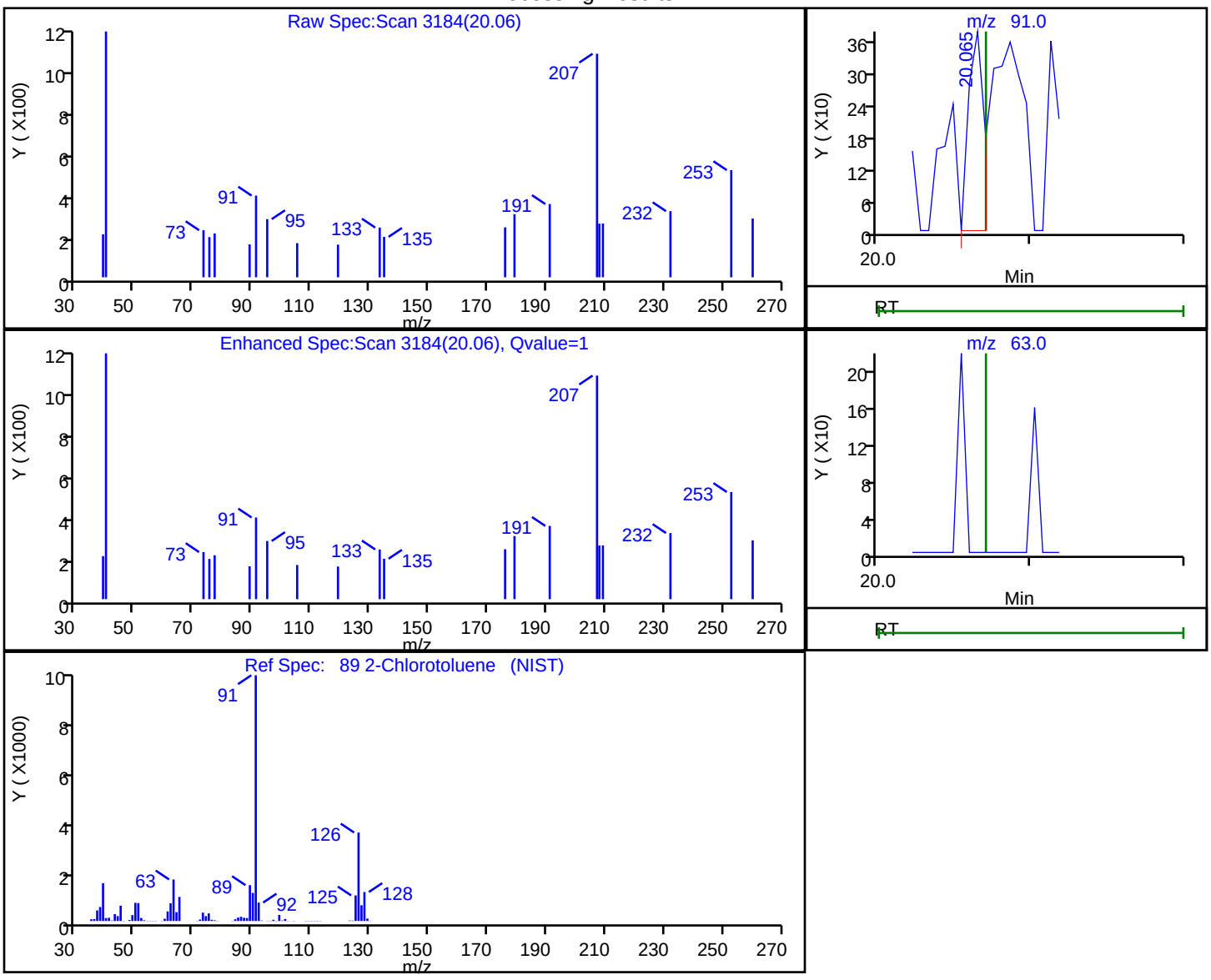
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 89 2-Chlorotoluene, CAS: 95-49-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.06 | 91.00 | 268 | 0.003045 |
| 20.07 | 63.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

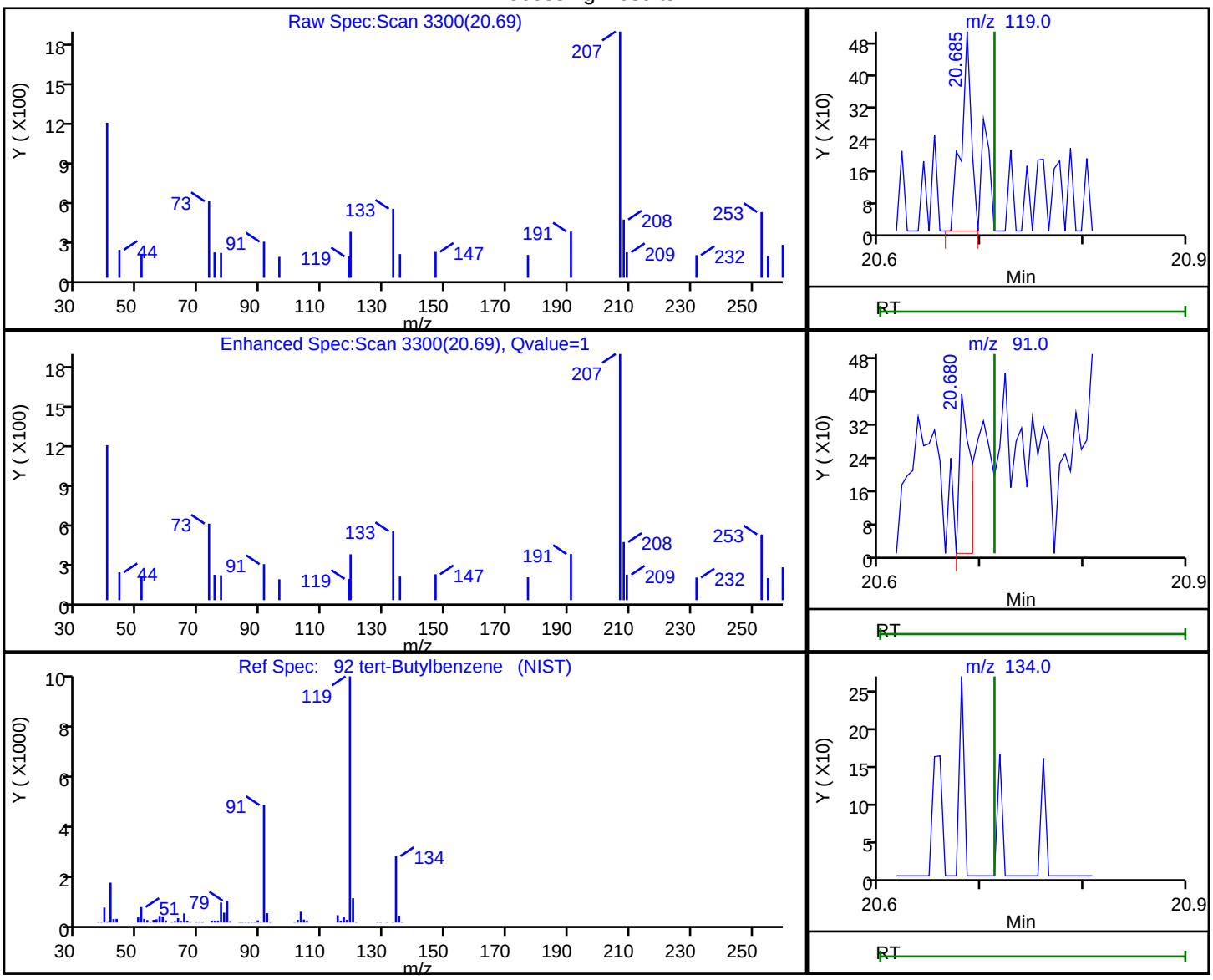
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 92 tert-Butylbenzene, CAS: 98-06-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.69 | 119.00 | 347 | 0.004299 |
| 20.68 | 91.00 | 281 | |
| 20.71 | 134.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

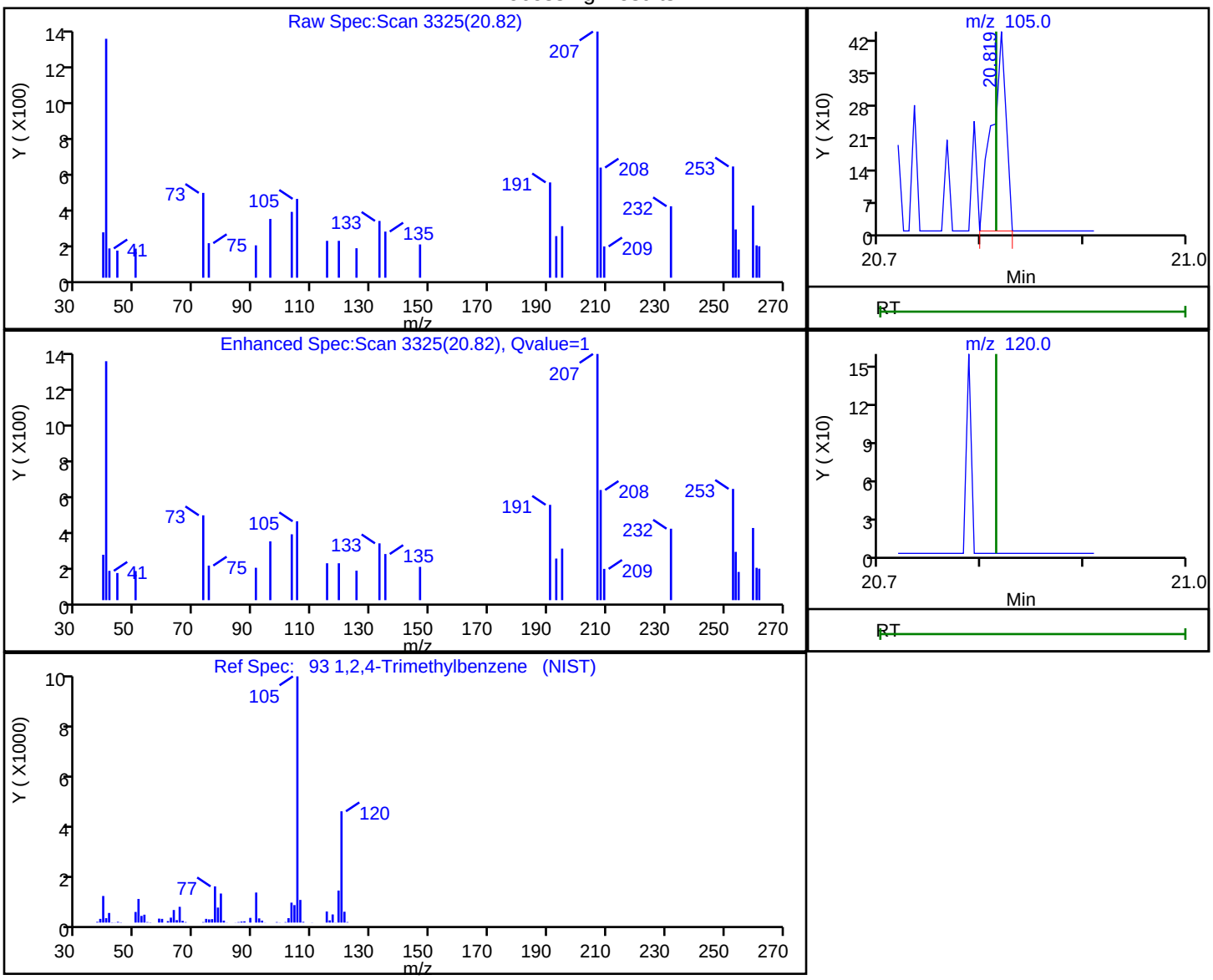
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 20.82 | 105.00 | 410 | 0.005045 |
| 20.81 | 120.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

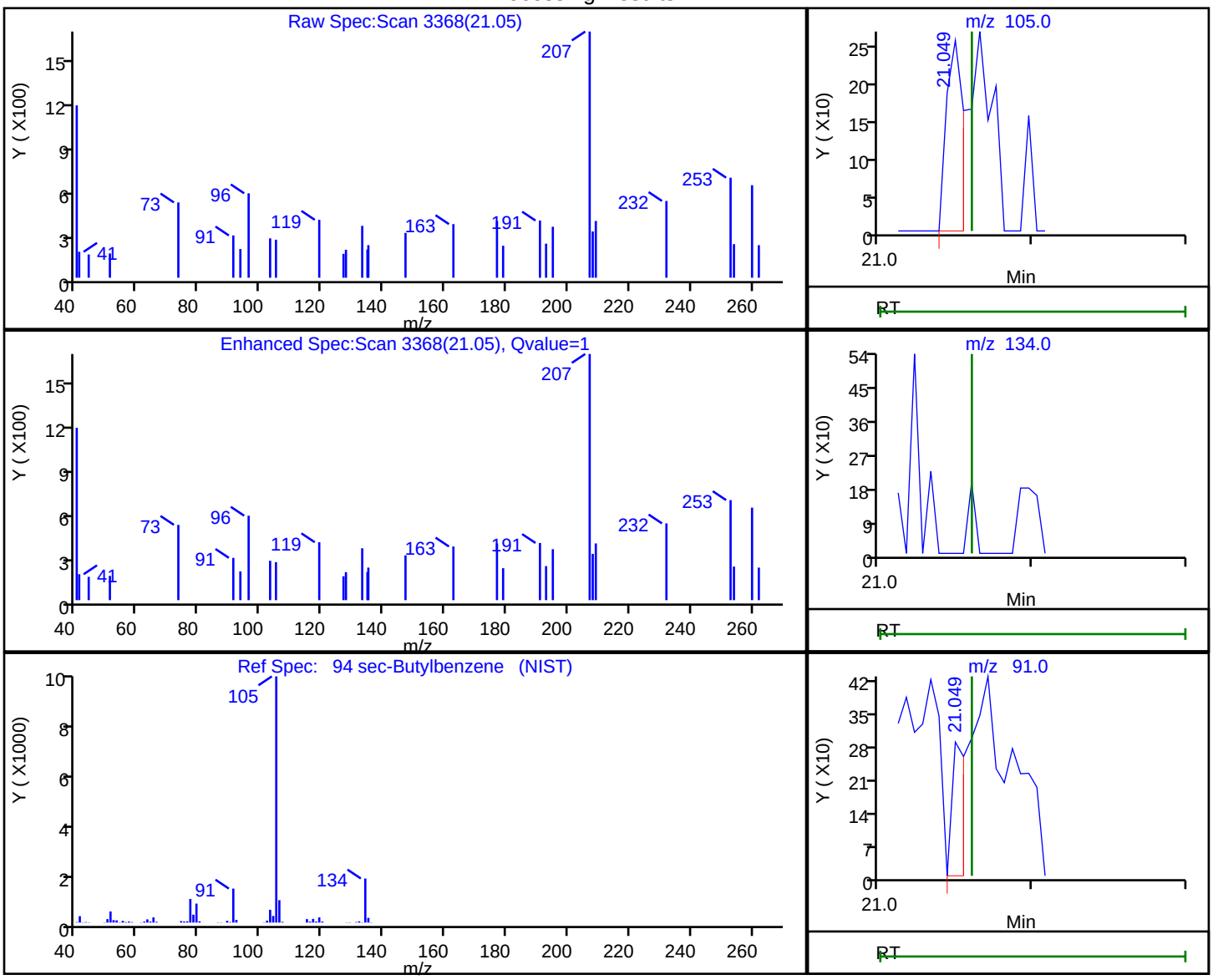
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 sec-Butylbenzene, CAS: 135-98-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.05 | 105.00 | 195 | 0.001660 |
| 21.05 | 91.00 | 174 | |
| 21.06 | 134.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

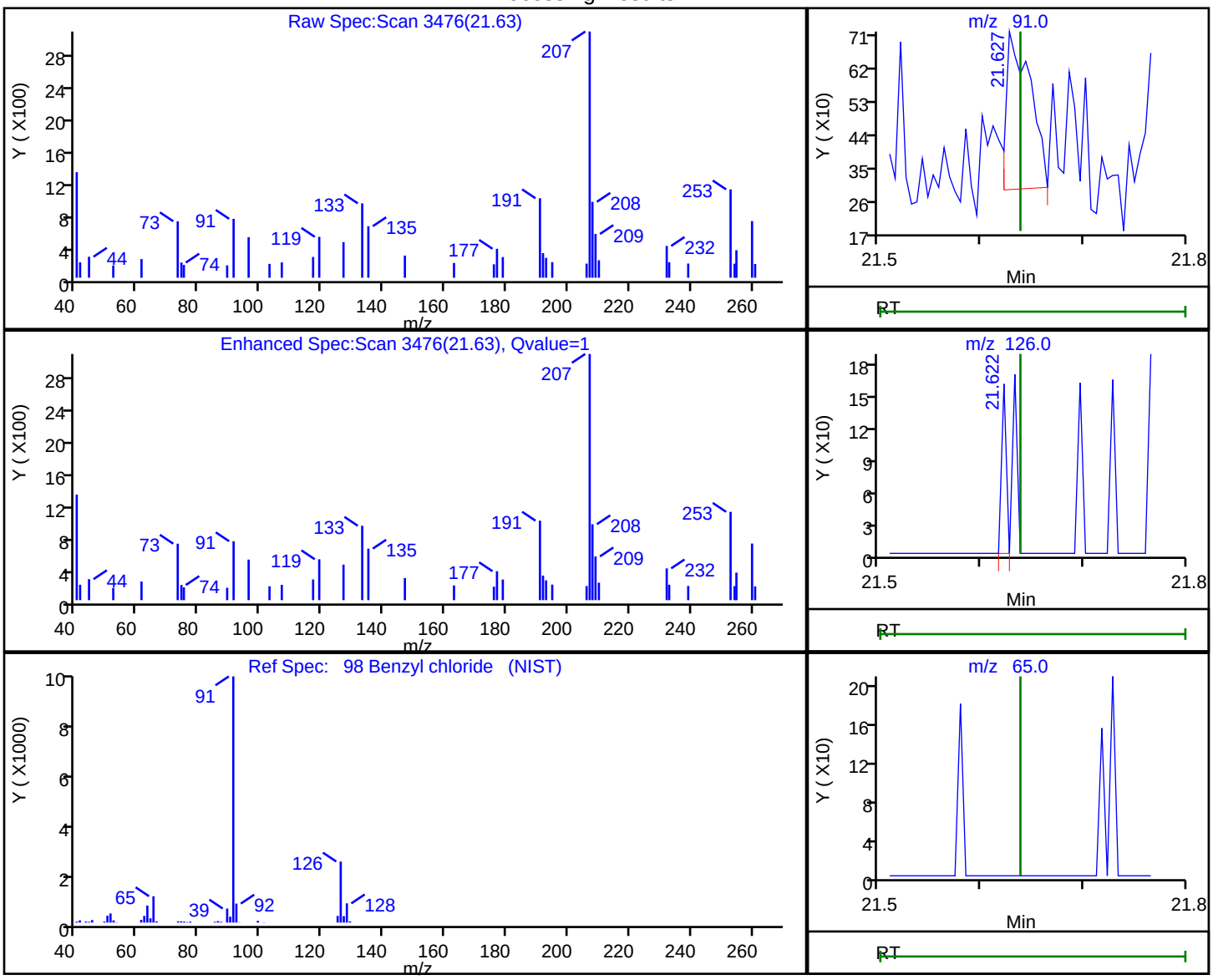
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 98 Benzyl chloride, CAS: 100-44-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.63 | 91.00 | 705 | 0.009412 |
| 21.62 | 126.00 | 51 | |
| 21.64 | 65.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

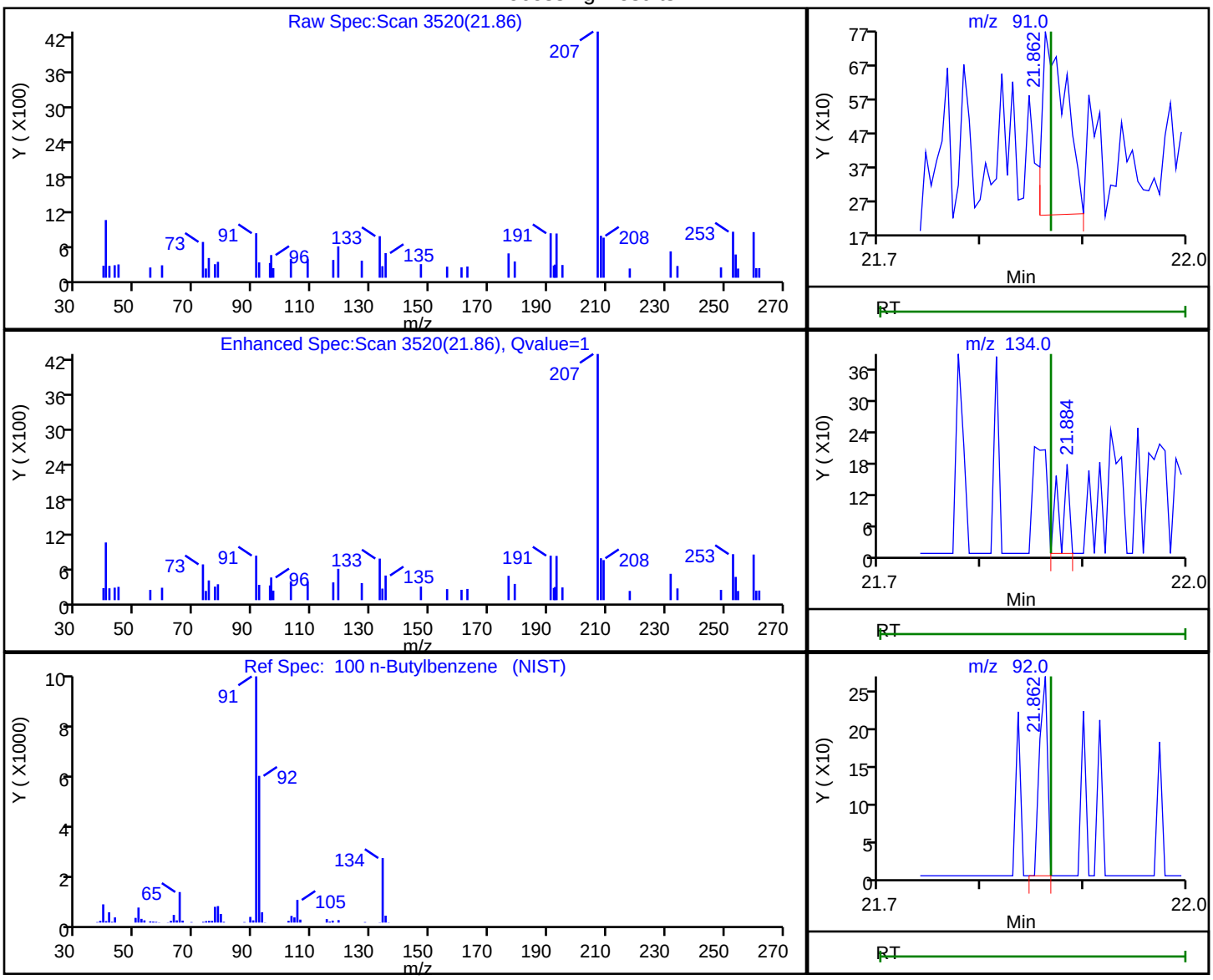
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 100 n-Butylbenzene, CAS: 104-51-8

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.86 | 91.00 | 872 | 0.010257 |
| 21.88 | 134.00 | 103 | |
| 21.86 | 92.00 | 143 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

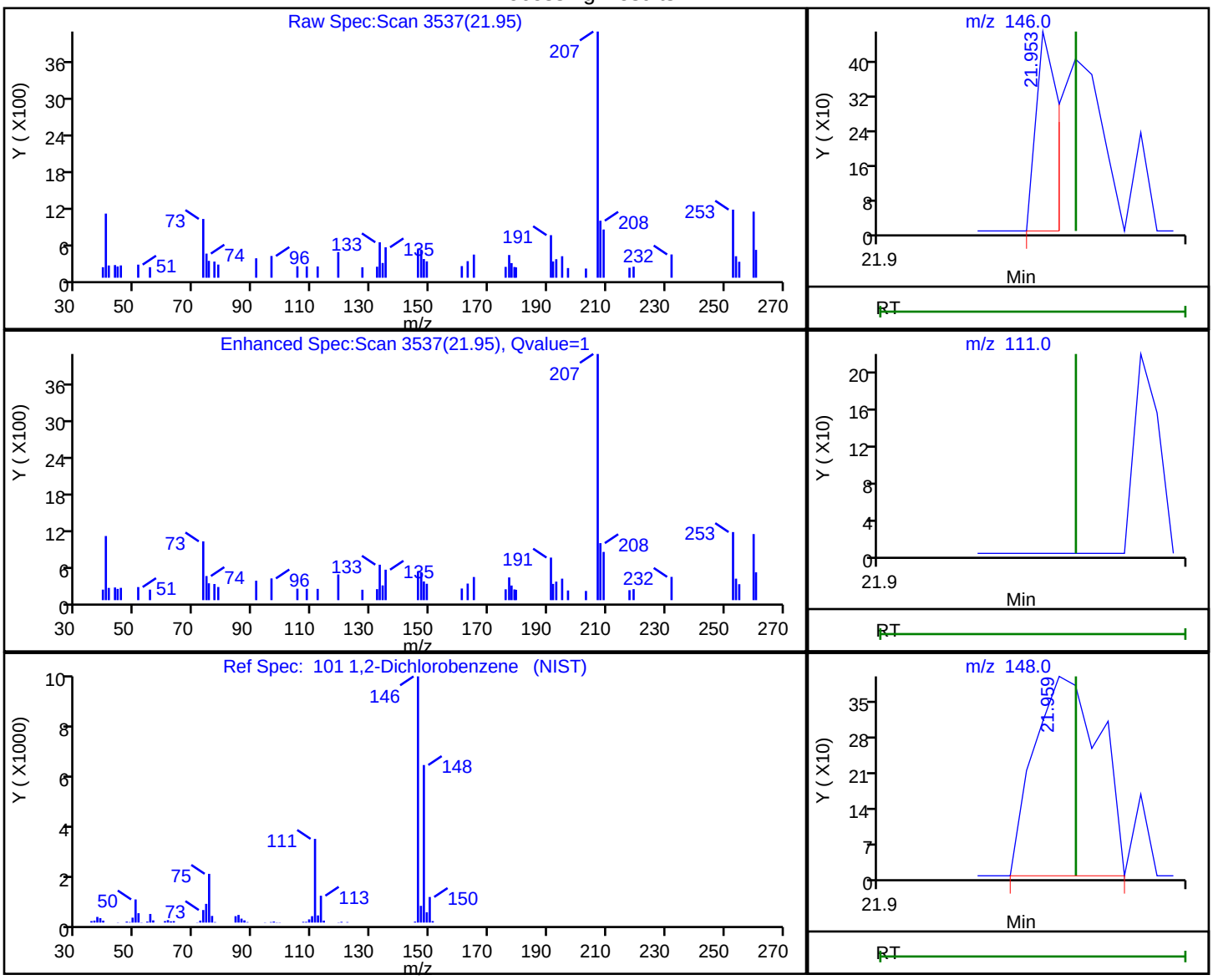
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 21.95 | 146.00 | 244 | 0.004170 |
| 21.96 | 111.00 | 0 | |
| 21.96 | 148.00 | 594 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

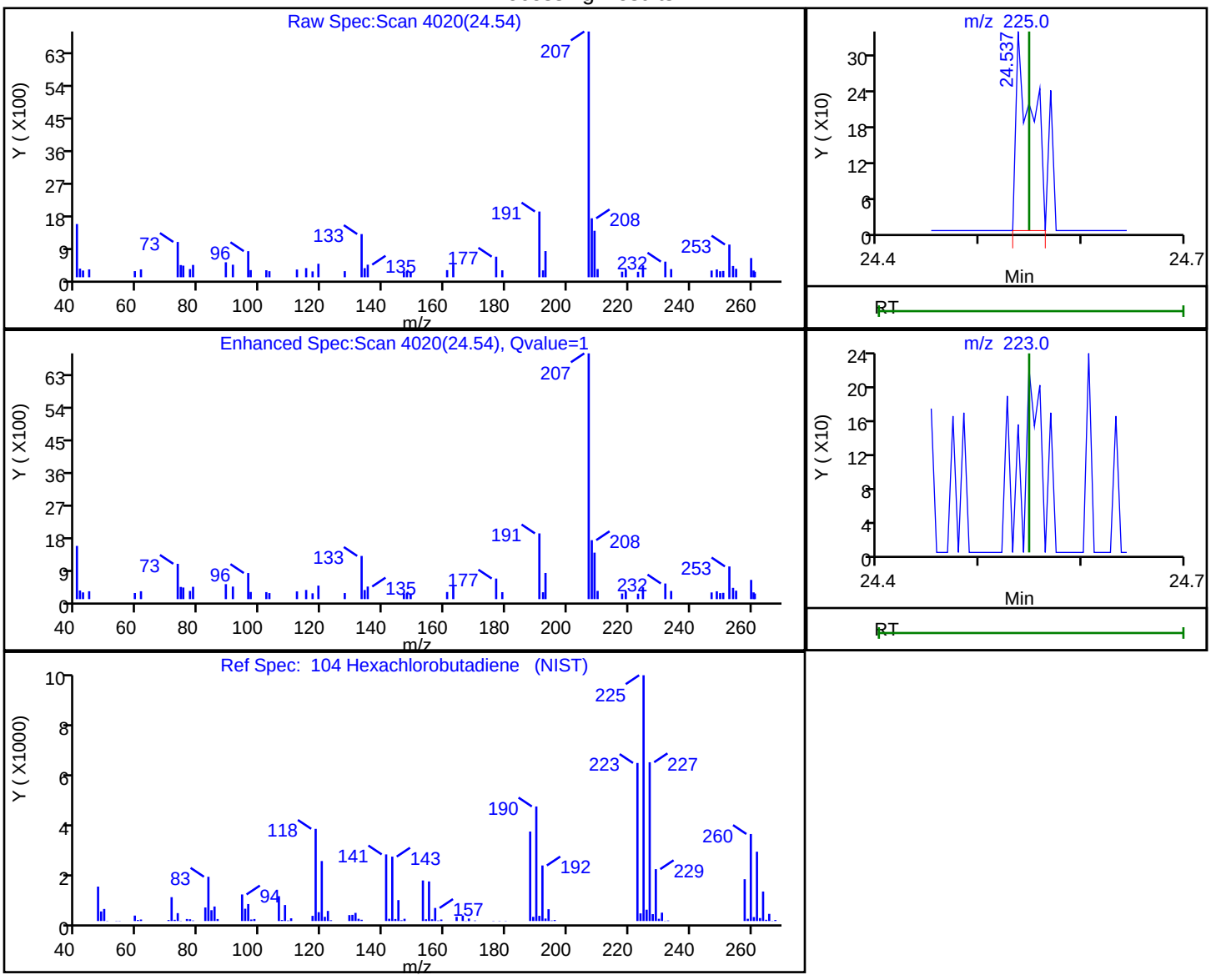
User Disabled Compound Report

TestAmerica Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 24.54 | 225.00 | 365 | 0.008374 |
| 24.55 | 223.00 | 0 | |

Reviewer: puangmaleek, 01-Nov-2018 14:28:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

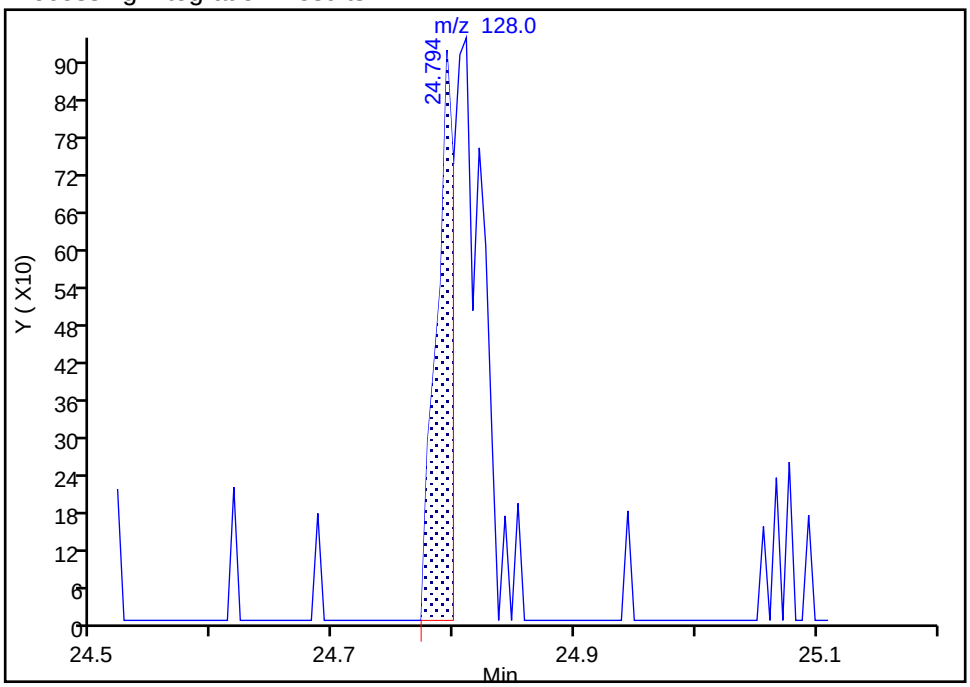
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D | | | | |
| Injection Date: | 01-Nov-2018 02:29:30 | Instrument ID: | CHG.i | | |
| Lims ID: | 200-45925-A-11 | Lab Sample ID: | 200-45925-11 | | |
| Client ID: | 5621 | | | | |
| Operator ID: | wrd | ALS Bottle#: | 15 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 105 Naphthalene, CAS: 91-20-3

Signal: 1

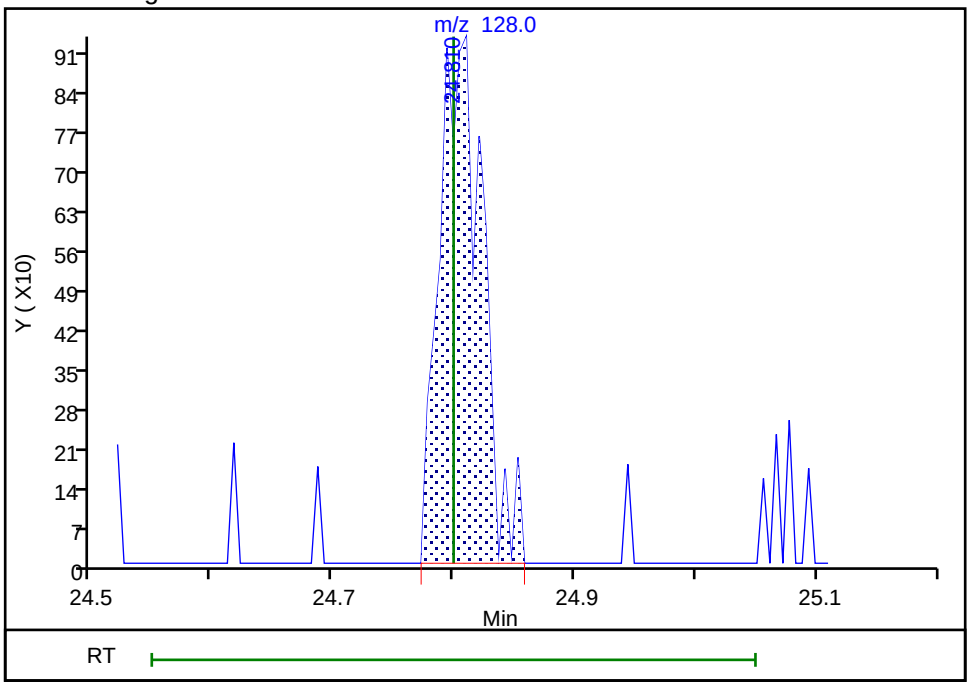
Processing Integration Results

RT: 24.79
Area: 922
Amount: 0.014839
Amount Units: ppb v/v




Manual Integration Results

RT: 24.81
Area: 2309
Amount: 0.037162
Amount Units: ppb v/v




Reviewer: puangmaleek, 01-Nov-2018 14:26:35

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 200-134490/22 | 200-32354-022.D |
| Level 2 | IC 200-134490/19 | 200-32354-019.D |
| Level 3 | IC 200-134490/6 | 200-32354-006.D |
| Level 4 | IC 200-134490/7 | 200-32354-007.D |
| Level 5 | ICIS 200-134490/8 | 200-32354-008.D |
| Level 6 | IC 200-134490/9 | 200-32354-009.D |
| Level 7 | IC 200-134490/10 | 200-32354-010.D |
| Level 8 | IC 200-134490/11 | 200-32354-011.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Propylene | +++++ 0.5894 | +++++ 0.5988 | +++++ 0.5261 | 0.6410 | 0.6147 | Ave | | 0.5940 | | | | 7.2 | | 30.0 | | | |
| Dichlorodifluoromethane | +++++ 3.3854 | +++++ 3.4812 | 3.7491 2.8940 | 3.7074 | 3.4689 | Ave | | 3.4477 | | | | 8.9 | | 30.0 | | | |
| Freon 22 | +++++ 1.4470 | +++++ 1.4450 | 1.5915 1.2640 | 1.6322 | 1.5195 | Ave | | 1.4832 | | | | 8.8 | | 30.0 | | | |
| 1,2-Dichlorotetrafluoroethane | +++++ 2.4572 | 3.1477 2.4961 | 2.7942 2.1007 | 2.7915 | 2.5956 | Ave | | 2.6261 | | | | 12.5 | | 30.0 | | | |
| Chloromethane | +++++ 0.6720 | +++++ 0.6788 | 0.7442 0.5963 | 0.7471 | 0.6957 | Ave | | 0.6890 | | | | 8.1 | | 30.0 | | | |
| n-Butane | +++++ 0.9024 | +++++ 0.9122 | 0.9428 0.7684 | 1.0182 | 0.9569 | Ave | | 0.9168 | | | | 9.1 | | 30.0 | | | |
| Vinyl chloride | 1.0053 0.7852 | 0.9407 0.8037 | 0.8403 0.6829 | 0.8671 | 0.8196 | Ave | | 0.8431 | | | | 11.7 | | 30.0 | | | |
| 1,3-Butadiene | 0.6672 0.5037 | 0.5999 0.5057 | 0.5252 0.4469 | 0.5527 | 0.5262 | Ave | | 0.5409 | | | | 12.4 | | 30.0 | | | |
| Bromomethane | +++++ 0.9455 | 1.1578 0.9626 | 1.0242 0.8487 | 1.0252 | 0.9704 | Ave | | 0.9906 | | | | 9.5 | | 30.0 | | | |
| Chloroethane | +++++ 0.2971 | +++++ 0.2911 | 0.3291 0.2665 | 0.3290 | 0.3022 | Ave | | 0.3025 | | | | 7.9 | | 30.0 | | | |
| Isopentane | +++++ 0.5943 | 0.9481 0.5844 | 0.6719 0.5076 | 0.6625 | 0.6217 | Ave | | 0.6558 | | | | 21.4 | | 30.0 | | | |
| Bromoethene(Vinyl Bromide) | +++++ 0.9058 | 1.0103 0.9301 | 0.9667 0.8322 | 0.9613 | 0.9254 | Ave | | 0.9331 | | | | 6.0 | | 30.0 | | | |
| Trichlorofluoromethane | +++++ 2.7003 | 3.2673 2.7549 | 3.0345 2.4156 | 2.9711 | 2.8124 | Ave | | 2.8509 | | | | 9.5 | | 30.0 | | | |
| n-Pentane | +++++ 0.8579 | +++++ 0.8555 | 1.0049 0.7481 | 0.9573 | 0.9063 | Ave | | 0.8883 | | | | 10.1 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethanol | +++++<br>0.2308 | +++++<br>0.2294 | 0.2574<br>0.1862 | 0.2688 | 0.2481 | Ave | | 0.2368 | | | | 12.3 | | 30.0 | | | |
| Ethyl ether | 0.1294<br>0.3553 | 0.3807<br>0.3486 | 0.3526<br>0.3248 | 0.3718 | 0.3662 | Ave | | 0.3287 | | | | 25.0 | | 30.0 | | | |
| Acrolein | +++++<br>0.1479 | +++++<br>0.1335 | +++++<br>0.1328 | 0.1590 | 0.1527 | Ave | | 0.1452 | | | | 8.0 | | 30.0 | | | |
| Freon TF | +++++<br>1.8538 | 2.2158<br>1.8809 | 2.1105<br>1.6859 | 2.0265 | 1.9280 | Ave | | 1.9573 | | | | 9.0 | | 30.0 | | | |
| 1,1-Dichloroethene | 0.9275<br>0.8030 | 0.9400<br>0.8341 | 0.8732<br>0.7491 | 0.8693 | 0.8262 | Ave | | 0.8528 | | | | 7.4 | | 30.0 | | | |
| Acetone | +++++<br>0.8205 | +++++<br>0.8286 | +++++<br>0.7517 | 0.9363 | 0.9166 | Ave | | 0.8507 | | | | 8.9 | | 30.0 | | | |
| Carbon disulfide | +++++<br>2.2492 | +++++<br>2.3376 | 2.3694<br>2.0293 | 2.4076 | 2.3169 | Ave | | 2.2850 | | | | 6.0 | | 30.0 | | | |
| Isopropyl alcohol | +++++<br>0.8014 | +++++<br>0.7997 | +++++<br>0.7172 | 0.8644 | 0.8437 | Ave | | 0.8053 | | | | 7.0 | | 30.0 | | | |
| 3-Chloropropene | +++++<br>0.6690 | 0.8602<br>0.5565 | 0.6386<br>0.6051 | 0.6924 | 0.6785 | Ave | | 0.6715 | | | | 14.2 | | 30.0 | | | |
| Acetonitrile | +++++<br>0.3039 | +++++<br>0.3117 | +++++<br>0.2938 | 0.3333 | 0.3248 | Ave | | 0.3135 | | | | 5.0 | | 30.0 | | | |
| Methylene Chloride | +++++<br>0.7725 | +++++<br>0.7652 | 0.8778<br>0.6827 | 0.8496 | 0.8036 | Ave | | 0.7919 | | | | 8.7 | | 30.0 | | | |
| tert-Butyl alcohol | +++++<br>1.1783 | +++++<br>1.2230 | +++++<br>1.0976 | 1.2348 | 1.2132 | Ave | | 1.1894 | | | | 4.7 | | 30.0 | | | |
| Methyl tert-butyl ether | +++++<br>1.7608 | 1.9959<br>1.7841 | 1.9138<br>1.6524 | 1.8507 | 1.8508 | Ave | | 1.8298 | | | | 6.1 | | 30.0 | | | |
| trans-1,2-Dichloroethene | +++++<br>1.0030 | 0.6407<br>1.0090 | 1.0811<br>0.8900 | 1.1030 | 1.0547 | Ave | | 0.9688 | | | | 16.6 | | 30.0 | | | |
| Acrylonitrile | +++++<br>0.3210 | +++++<br>0.3280 | 0.3069<br>0.3178 | 0.3282 | 0.3413 | Ave | | 0.3239 | | | | 3.6 | | 30.0 | | | |
| n-Hexane | +++++<br>0.7852 | 0.9022<br>0.7900 | 0.8077<br>0.7142 | 0.8202 | 0.8154 | Ave | | 0.8050 | | | | 6.9 | | 30.0 | | | |
| 1,1-Dichloroethane | 1.6412<br>1.2731 | 1.4728<br>1.2659 | 1.3145<br>1.1621 | 1.3656 | 1.3256 | Ave | | 1.3526 | | | | 10.8 | | 30.0 | | | |
| Vinyl acetate | +++++<br>1.2535 | +++++<br>1.2657 | +++++<br>1.1127 | 1.3256 | 1.3366 | Ave | | 1.2588 | | | | 7.1 | | 30.0 | | | |
| cis-1,2-Dichloroethene | 0.8580<br>0.8553 | 0.9349<br>0.8695 | 0.9078<br>0.7974 | 0.8735 | 0.8494 | Ave | | 0.8682 | | | | 4.7 | | 30.0 | | | |
| Methyl Ethyl Ketone | +++++<br>0.2666 | +++++<br>0.2761 | 0.3327<br>0.2537 | 0.2788 | 0.2794 | Ave | | 0.2812 | | | | 9.6 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethyl acetate | +++++ 0.0409 | +++++ 0.0409 | +++++ 0.0388 | 0.0420 | 0.0425 | Ave | | 0.0410 | | | | 3.5 | | 30.0 | | | |
| Tetrahydrofuran | +++++ 0.1142 | +++++ 0.1116 | +++++ 0.0982 | 0.1333 | 0.1240 | Ave | | 0.1162 | | | | 11.4 | | 30.0 | | | |
| Chloroform | +++++ 2.0116 | 2.2543 2.0314 | 2.1474 1.8394 | 2.1353 | 2.0729 | Ave | | 2.0703 | | | | 6.3 | | 30.0 | | | |
| Cyclohexane | +++++ 0.1891 | 0.2209 0.1931 | 0.2098 0.1668 | 0.2085 | 0.1957 | Ave | | 0.1977 | | | | 8.9 | | 30.0 | | | |
| 1,1,1-Trichloroethane | +++++ 0.4857 | 0.5845 0.4862 | 0.5319 0.4264 | 0.5396 | 0.4998 | Ave | | 0.5077 | | | | 9.9 | | 30.0 | | | |
| Carbon tetrachloride | 0.5296 0.5673 | 0.5712 0.5736 | 0.5552 0.5168 | 0.6062 | 0.5258 | Ave | | 0.5557 | | | | 5.4 | | 30.0 | | | |
| 2,2,4-Trimethylpentane | +++++ 0.6825 | 0.7714 0.6785 | 0.7026 0.5719 | 0.7743 | 0.7154 | Ave | | 0.6995 | | | | 9.8 | | 30.0 | | | |
| Benzene | +++++ 0.4880 | 0.6268 0.4913 | 0.5541 0.4363 | 0.5375 | 0.5086 | Ave | | 0.5204 | | | | 11.6 | | 30.0 | | | |
| 1,2-Dichloroethane | +++++ 0.3053 | 0.3610 0.3044 | 0.3134 0.2719 | 0.3376 | 0.3216 | Ave | | 0.3164 | | | | 8.9 | | 30.0 | | | |
| n-Heptane | +++++ 0.2540 | 0.2058 0.2500 | 0.2498 0.2120 | 0.2879 | 0.2684 | Ave | | 0.2468 | | | | 11.8 | | 30.0 | | | |
| n-Butanol | +++++ 0.0882 | +++++ 0.0939 | +++++ 0.0805 | 0.0921 | 0.0935 | Ave | | 0.0896 | | | | 6.2 | | 30.0 | | | |
| Trichloroethene | 0.4077 0.3074 | 0.3288 0.3186 | 0.3440 0.2825 | 0.3214 | 0.3027 | Ave | | 0.3266 | | | | 11.5 | | 30.0 | | | |
| 1,2-Dichloropropane | +++++ 0.2097 | 0.2512 0.2088 | 0.2293 0.1850 | 0.2268 | 0.2149 | Ave | | 0.2179 | | | | 9.5 | | 30.0 | | | |
| Methyl methacrylate | +++++ 0.1628 | +++++ 0.1720 | 0.1550 0.1550 | 0.1698 | 0.1675 | Ave | | 0.1637 | | | | 4.5 | | 30.0 | | | |
| Dibromomethane | 0.2655 0.2985 | 0.2897 0.3269 | 0.3296 0.3050 | 0.2947 | 0.2862 | Ave | | 0.2995 | | | | 7.1 | | 30.0 | | | |
| 1,4-Dioxane | +++++ 0.1045 | +++++ 0.1070 | +++++ 0.0929 | 0.1129 | 0.1063 | Ave | | 0.1047 | | | | 7.0 | | 30.0 | | | |
| Bromodichloromethane | +++++ 0.5403 | 0.5801 0.5590 | 0.5393 0.4928 | 0.5625 | 0.5490 | Ave | | 0.5461 | | | | 5.0 | | 30.0 | | | |
| cis-1,3-Dichloropropene | +++++ 0.3584 | 0.3468 0.3683 | 0.3421 0.3332 | 0.3708 | 0.3656 | Ave | | 0.3550 | | | | 4.1 | | 30.0 | | | |
| methyl isobutyl ketone | +++++ 0.3545 | +++++ 0.3597 | 0.3038 0.3031 | 0.3904 | 0.3811 | Ave | | 0.3488 | | | | 10.8 | | 30.0 | | | |
| Toluene | +++++ 0.4337 | 0.4581 0.4370 | 0.4712 0.4150 | 0.4506 | 0.4362 | Ave | | 0.4431 | | | | 4.2 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| n-Octane | 0.4285<br>0.3915 | 0.4816<br>0.3869 | 0.4099<br>0.3224 | 0.4485 | 0.4157 | Ave | | 0.4106 | | | | 11.5 | | 30.0 | | | |
| trans-1,3-Dichloropropene | +++++<br>0.3498 | 0.3295<br>0.3555 | 0.3645<br>0.3297 | 0.3643 | 0.3555 | Ave | | 0.3498 | | | | 4.2 | | 30.0 | | | |
| 1,1,2-Trichloroethane | +++++<br>0.2413 | +++++<br>0.2414 | 0.2766<br>0.2190 | 0.2591 | 0.2468 | Ave | | 0.2474 | | | | 7.8 | | 30.0 | | | |
| Tetrachloroethene | 0.4712<br>0.4600 | 0.4901<br>0.4868 | 0.5038<br>0.4614 | 0.4511 | 0.4448 | Ave | | 0.4712 | | | | 4.4 | | 30.0 | | | |
| Methyl Butyl Ketone (2-Hexanone) | +++++<br>0.3748 | +++++<br>0.3714 | 0.3836<br>0.3223 | 0.4037 | 0.4084 | Ave | | 0.3774 | | | | 8.2 | | 30.0 | | | |
| Dibromochloromethane | +++++<br>0.6646 | 0.5865<br>0.6772 | 0.5814<br>0.6391 | 0.6388 | 0.6538 | Ave | | 0.6345 | | | | 5.8 | | 30.0 | | | |
| 1,2-Dibromoethane | +++++<br>0.4929 | 0.4439<br>0.5005 | 0.4894<br>0.4671 | 0.4960 | 0.4900 | Ave | | 0.4828 | | | | 4.2 | | 30.0 | | | |
| Chlorobenzene | +++++<br>0.6337 | 0.6548<br>0.6497 | 0.6916<br>0.6123 | 0.6419 | 0.6266 | Ave | | 0.6444 | | | | 3.9 | | 30.0 | | | |
| Ethylbenzene | +++++<br>0.9475 | 1.0044<br>0.9445 | 1.0073<br>0.8803 | 0.9874 | 0.9657 | Ave | | 0.9624 | | | | 4.6 | | 30.0 | | | |
| n-Nonane | +++++<br>0.4137 | 0.4211<br>0.3967 | 0.4130<br>0.3466 | 0.4558 | 0.4327 | Ave | | 0.4114 | | | | 8.3 | | 30.0 | | | |
| m,p-Xylene | +++++<br>0.3793 | 0.3925<br>0.3882 | 0.3992<br>0.3663 | 0.3859 | 0.3843 | Ave | | 0.3851 | | | | 2.7 | | 30.0 | | | |
| Xylene, o- | +++++<br>0.3732 | 0.3768<br>0.3810 | 0.3971<br>0.3618 | 0.3863 | 0.3792 | Ave | | 0.3793 | | | | 2.9 | | 30.0 | | | |
| Styrene | +++++<br>0.5498 | 0.4498<br>0.5671 | 0.4776<br>0.5596 | 0.5456 | 0.5503 | Ave | | 0.5285 | | | | 8.6 | | 30.0 | | | |
| Bromoform | +++++<br>0.6513 | 0.5007<br>0.6516 | 0.4860<br>0.6300 | 0.5941 | 0.6369 | Ave | | 0.5930 | | | | 11.9 | | 30.0 | | | |
| Cumene | +++++<br>1.0502 | 1.0325<br>1.0594 | 1.1043<br>1.0013 | 1.0824 | 1.0748 | Ave | | 1.0578 | | | | 3.2 | | 30.0 | | | |
| 1,1,2,2-Tetrachloroethane | +++++<br>0.5911 | 0.6746<br>0.5858 | 0.6599<br>0.5115 | 0.6593 | 0.6234 | Ave | | 0.6151 | | | | 9.3 | | 30.0 | | | |
| n-Propylbenzene | +++++<br>1.1988 | 1.2754<br>1.1894 | 1.2853<br>1.0590 | 1.2966 | 1.2451 | Ave | | 1.2214 | | | | 6.8 | | 30.0 | | | |
| 1,2,3-Trichloropropane | +++++<br>0.4630 | +++++<br>0.4530 | 0.5542<br>0.3915 | 0.5308 | 0.4953 | Ave | | 0.4813 | | | | 12.2 | | 30.0 | | | |
| 2-Chlorotoluene | +++++<br>0.8730 | 0.9516<br>0.8524 | 0.9857<br>0.7233 | 0.9701 | 0.9139 | Ave | | 0.8957 | | | | 10.1 | | 30.0 | | | |
| 4-Ethyltoluene | +++++<br>0.9949 | 0.9537<br>0.9899 | 1.0047<br>0.8667 | 1.0529 | 1.0275 | Ave | | 0.9843 | | | | 6.1 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| n-Decane | +++++<br>0.4647 | +++++<br>0.4367 | 0.5072<br>0.3579 | 0.5474 | 0.4884 | Ave | | 0.4671 | | | | 14.0 | | 30.0 | | | |
| 1,3,5-Trimethylbenzene | +++++<br>0.8587 | 0.8140<br>0.8771 | 0.8803<br>0.8251 | 0.8876 | 0.8640 | Ave | | 0.8581 | | | | 3.3 | | 30.0 | | | |
| Alpha Methyl Styrene | +++++<br>0.4442 | 0.3376<br>0.4600 | 0.3658<br>0.4542 | 0.4328 | 0.4320 | Ave | | 0.4181 | | | | 11.3 | | 30.0 | | | |
| tert-Butylbenzene | +++++<br>0.8068 | 0.8042<br>0.8291 | 0.8673<br>0.7798 | 0.8413 | 0.8205 | Ave | | 0.8213 | | | | 3.4 | | 30.0 | | | |
| 1,2,4-Trimethylbenzene | +++++<br>0.8235 | 0.7889<br>0.8438 | 0.8484<br>0.7856 | 0.8780 | 0.8206 | Ave | | 0.8270 | | | | 4.0 | | 30.0 | | | |
| sec-Butylbenzene | +++++<br>1.1639 | 1.1944<br>1.1884 | 1.2788<br>1.0901 | 1.2503 | 1.2002 | Ave | | 1.1952 | | | | 5.1 | | 30.0 | | | |
| 4-Isopropyltoluene | +++++<br>0.9769 | 0.8866<br>0.9980 | 1.0385<br>0.8922 | 1.0227 | 0.9998 | Ave | | 0.9735 | | | | 6.2 | | 30.0 | | | |
| 1,3-Dichlorobenzene | +++++<br>0.6516 | 0.5992<br>0.6648 | 0.6615<br>0.6158 | 0.6499 | 0.6299 | Ave | | 0.6389 | | | | 3.9 | | 30.0 | | | |
| 1,4-Dichlorobenzene | +++++<br>0.6338 | 0.5892<br>0.6571 | 0.6300<br>0.6409 | 0.6208 | 0.6093 | Ave | | 0.6259 | | | | 3.5 | | 30.0 | | | |
| Benzyl chloride | +++++<br>0.7895 | 0.6982<br>0.7357 | 0.7454<br>0.7536 | 0.8149 | 0.7985 | Ave | | 0.7623 | | | | 5.4 | | 30.0 | | | |
| n-Butylbenzene | +++++<br>0.8734 | 0.7924<br>0.8843 | 0.8701<br>0.7882 | 0.9527 | 0.8950 | Ave | | 0.8652 | | | | 6.7 | | 30.0 | | | |
| n-Undecane | +++++<br>0.4476 | +++++<br>0.4644 | +++++<br>0.3919 | 0.5378 | 0.4423 | Ave | | 0.4568 | | | | 11.5 | | 30.0 | | | |
| 1,2-Dichlorobenzene | +++++<br>0.5889 | 0.6050<br>0.6089 | 0.6123<br>0.5948 | 0.5939 | 0.5639 | Ave | | 0.5954 | | | | 2.7 | | 30.0 | | | |
| n-Dodecane | +++++<br>0.3200 | 0.3467<br>0.3861 | 0.3159<br>0.2903 | 0.4280 | 0.2093 | Ave | | 0.3280 | | | | 21.4 | | 30.0 | | | |
| 1,2,4-Trichlorobenzene | +++++<br>0.3577 | 0.3353<br>0.4090 | 0.3563<br>0.4142 | 0.3550 | 0.2548 | Ave | | 0.3546 | | | | 14.9 | | 30.0 | | | |
| Hexachlorobutadiene | +++++<br>0.4303 | 0.4615<br>0.4609 | 0.4868<br>0.4043 | 0.4543 | 0.4065 | Ave | | 0.4435 | | | | 7.0 | | 30.0 | | | |
| Naphthalene | +++++<br>0.6179 | 0.6313<br>0.7189 | 0.7379<br>0.7462 | 0.6141 | 0.3596 | Ave | | 0.6323 | | | | 21.1 | | 30.0 | | | |
| 1,2,3-Trichlorobenzene | +++++<br>0.3180 | 0.2890<br>0.3764 | 0.4026<br>0.3606 | 0.3247 | 0.2109 | Ave | | 0.3260 | | | | 19.5 | | 30.0 | | | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 200-134490/22 | 200-32354-022.D |
| Level 2 | IC 200-134490/19 | 200-32354-019.D |
| Level 3 | IC 200-134490/6 | 200-32354-006.D |
| Level 4 | IC 200-134490/7 | 200-32354-007.D |
| Level 5 | ICIS 200-134490/8 | 200-32354-008.D |
| Level 6 | IC 200-134490/9 | 200-32354-009.D |
| Level 7 | IC 200-134490/10 | 200-32354-010.D |
| Level 8 | IC 200-134490/11 | 200-32354-011.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Propylene | BCM | Ave | +++++<br>373317 | +++++<br>492753 | +++++<br>908665 | 133630 | 263317 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Dichlorodifluoromethane | BCM | Ave | +++++<br>2144357 | +++++<br>2864910 | 82939<br>4998644 | 772943 | 1485912 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Freon 22 | BCM | Ave | +++++<br>916564 | +++++<br>1189164 | 35208<br>2183289 | 340295 | 650893 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichlorotetrafluoroethane | BCM | Ave | +++++<br>1556439 | 23631<br>2054209 | 61815<br>3628404 | 581988 | 1111820 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chloromethane | BCM | Ave | +++++<br>425641 | +++++<br>558638 | 16464<br>1029911 | 155763 | 297982 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butane | BCM | Ave | +++++<br>571559 | +++++<br>750710 | 20858<br>1327162 | 212280 | 409894 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Vinyl chloride | BCM | Ave | 1344<br>497372 | 7062<br>661439 | 18589<br>1179477 | 180769 | 351061 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3-Butadiene | BCM | Ave | 892<br>319078 | 4504<br>416151 | 11619<br>771839 | 115233 | 225396 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromomethane | BCM | Ave | +++++<br>598857 | 8692<br>792160 | 22657<br>1466003 | 213738 | 415681 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chloroethane | BCM | Ave | +++++<br>188180 | +++++<br>239565 | 7280<br>460392 | 68597 | 129454 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Isopentane | BCM | Ave | +++++<br>376419 | 7118<br>480929 | 14864<br>876675 | 138117 | 266317 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromoethene(Vinyl Bromide) | BCM | Ave | +++++<br>573728 | 7585<br>765417 | 21387<br>1437499 | 200411 | 396380 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Trichlorofluoromethane | BCM | Ave | +++++<br>1710400 | 24529<br>2267218 | 67132<br>4172337 | 619444 | 1204690 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Pentane | BCM | Ave | +++++<br>543400 | +++++<br>704059 | 22230<br>1292243 | 199583 | 388192 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethanol | BCM | Ave | +++++<br>195307 | +++++<br>377717 | 57018<br>803997 | 112143 | 159481 | +++++<br>20.0 | +++++<br>40.0 | 5.01<br>100.0 | 9.99 | 15.0 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Ethyl ether | BCM | Ave | 173<br>225072 | 2858<br>286905 | 7800<br>561070 | 77515 | 156867 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acrolein | BCM | Ave | +++++<br>93685 | +++++<br>109889 | +++++<br>229441 | 33152 | 65422 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Freon TF | BCM | Ave | +++++<br>1174220 | 16635<br>1547906 | 46689<br>2911979 | 422498 | 825863 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1-Dichloroethene | BCM | Ave | 1240<br>508653 | 7057<br>686452 | 19318<br>1293831 | 181237 | 353903 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acetone | BCM | Ave | +++++<br>519735 | +++++<br>681885 | +++++<br>1298302 | 195200 | 392634 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Carbon disulfide | BCM | Ave | +++++<br>1424630 | +++++<br>1923741 | 52417<br>3505114 | 501954 | 992438 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Isopropyl alcohol | BCM | Ave | +++++<br>507585 | +++++<br>658115 | +++++<br>1238856 | 180217 | 361406 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 3-Chloropropene | BCM | Ave | +++++<br>423737 | 6458<br>457988 | 14128<br>1045177 | 144351 | 290648 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acetonitrile | BCM | Ave | +++++<br>192497 | +++++<br>256485 | +++++<br>507494 | 69481 | 139145 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Methylene Chloride | BCM | Ave | +++++<br>489302 | +++++<br>629708 | 19420<br>1179218 | 177122 | 344226 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| tert-Butyl alcohol | BCM | Ave | +++++<br>746336 | +++++<br>1006529 | +++++<br>1895788 | 257436 | 519691 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Methyl tert-butyl ether | BCM | Ave | +++++<br>1115332 | 14984<br>1468266 | 42338<br>2854154 | 385856 | 792775 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| trans-1,2-Dichloroethene | BCM | Ave | +++++<br>635289 | 4810<br>830357 | 23917<br>1537254 | 229966 | 451759 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Acrylonitrile | BCM | Ave | +++++<br>203341 | +++++<br>269958 | 6789<br>548917 | 68423 | 146177 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Hexane | BCM | Ave | +++++<br>497380 | 6773<br>650143 | 17869<br>1233599 | 171005 | 349279 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1-Dichloroethane | BCM | Ave | 2194<br>806393 | 11057<br>1041755 | 29080<br>2007331 | 284711 | 567825 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Vinyl acetate | BCM | Ave | +++++<br>794002 | +++++<br>1041647 | +++++<br>1921885 | 276376 | 572542 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| cis-1,2-Dichloroethene | BCM | Ave | 1147<br>541760 | 7019<br>715595 | 20082<br>1377289 | 182109 | 363852 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl Ethyl Ketone | BCM | Ave | +++++<br>168852 | +++++<br>227252 | 7361<br>438266 | 58124 | 119691 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethyl acetate | BCM | Ave | +++++<br>25911 | +++++<br>33694 | +++++<br>66961 | 8761 | 18214 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Tetrahydrofuran | DFBZ | Ave | +++++<br>343171 | +++++<br>439174 | +++++<br>840588 | 124018 | 247446 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Chloroform | BCM | Ave | +++++<br>1274182 | 16924<br>1671799 | 47507<br>3177089 | 445180 | 887941 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Cyclohexane | DFBZ | Ave | +++++<br>568453 | 7184<br>759978 | 21834<br>1427341 | 194024 | 390564 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,1-Trichloroethane | DFBZ | Ave | +++++<br>1459990 | 19007<br>1913116 | 55361<br>3648821 | 502041 | 997631 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Carbon tetrachloride | DFBZ | Ave | 3060<br>1705304 | 18572<br>2257180 | 57789<br>4423260 | 563993 | 1049482 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 2,2,4-Trimethylpentane | DFBZ | Ave | +++++<br>2051593 | 25083<br>2669738 | 73130<br>4894290 | 720441 | 1428064 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Benzene | DFBZ | Ave | +++++<br>1466810 | 20381<br>1933270 | 57670<br>3733545 | 500121 | 1015189 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichloroethane | DFBZ | Ave | +++++<br>917617 | 11738<br>1197663 | 32620<br>2326738 | 314083 | 642036 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Heptane | DFBZ | Ave | +++++<br>763472 | 6692<br>983746 | 26003<br>1814693 | 267868 | 535721 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butanol | DFBZ | Ave | +++++<br>265074 | +++++<br>369410 | +++++<br>689330 | 85676 | 186688 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Trichloroethene | DFBZ | Ave | 2356<br>924155 | 10692<br>1253748 | 35804<br>2417543 | 298997 | 604223 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichloropropane | DFBZ | Ave | +++++<br>630299 | 8168<br>821587 | 23866<br>1583107 | 210999 | 429003 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl methacrylate | DFBZ | Ave | +++++<br>489412 | +++++<br>676680 | 16135<br>1326434 | 157998 | 334330 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Dibromomethane | DFBZ | Ave | 1534<br>897198 | 9421<br>1286453 | 34305<br>2610560 | 274210 | 571202 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,4-Dioxane | DFBZ | Ave | +++++<br>314242 | +++++<br>421241 | +++++<br>794893 | 105057 | 212226 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| Bromodichloromethane | DFBZ | Ave | +++++<br>1624084 | 18864<br>2199638 | 56132<br>4217362 | 523364 | 1095798 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| cis-1,3-Dichloropropene | DFBZ | Ave | +++++<br>1077378 | 11277<br>1449185 | 35606<br>2852011 | 344995 | 729785 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| methyl isobutyl ketone | DFBZ | Ave | +++++<br>1065687 | +++++<br>1415455 | 31622<br>2594188 | 363231 | 760662 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Toluene | CBNZ d5 | Ave | +++++<br>1189653 | 13008<br>1611317 | 43918<br>3260706 | 378645 | 784680 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Octane | DFBZ | Ave | 2476<br>1176869 | 15659<br>1522591 | 42666<br>2759526 | 417275 | 829742 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| trans-1,3-Dichloropropene | DFBZ | Ave | +++++<br>1051373 | 10713<br>1398727 | 37942<br>2821912 | 338948 | 709576 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,2-Trichloroethane | CBNZ d5 | Ave | +++++<br>662019 | +++++<br>890294 | 25785<br>1720864 | 217722 | 443957 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Tetrachloroethene | CBNZ d5 | Ave | 2350<br>1261858 | 13916<br>1795129 | 46957<br>3625651 | 379029 | 800247 | 0.0351<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Methyl Butyl Ketone (2-Hexanone) | CBNZ d5 | Ave | +++++<br>1028180 | +++++<br>1369468 | 35760<br>2532368 | 339211 | 734745 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Dibromochloromethane | CBNZ d5 | Ave | +++++<br>1823090 | 16654<br>2496951 | 54196<br>5021895 | 536795 | 1176118 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2-Dibromoethane | CBNZ d5 | Ave | +++++<br>1352076 | 12605<br>1845677 | 45618<br>3670531 | 416755 | 881430 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Chlorobenzene | CBNZ d5 | Ave | +++++<br>1738287 | 18593<br>2395537 | 64466<br>4811314 | 539350 | 1127274 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Ethylbenzene | CBNZ d5 | Ave | +++++<br>2599181 | 28518<br>3482924 | 93890<br>6916661 | 829718 | 1737231 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Nonane | CBNZ d5 | Ave | +++++<br>1134857 | 11956<br>1462724 | 38495<br>2723586 | 382979 | 778359 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| m,p-Xylene | CBNZ d5 | Ave | +++++<br>2080932 | 22290<br>2862784 | 74426<br>5756629 | 648577 | 1382845 | +++++<br>30.0 | 0.401<br>40.0 | 1.00<br>80.0 | 9.99 | 20.0 |
| Xylene, o- | CBNZ d5 | Ave | +++++<br>1023672 | 10698<br>1404854 | 37018<br>2842941 | 324629 | 682124 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Styrene | CBNZ d5 | Ave | +++++<br>1508097 | 12771<br>2091050 | 44515<br>4397099 | 458477 | 989973 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Bromoform | CBNZ d5 | Ave | +++++<br>1786749 | 14218<br>2402657 | 45302<br>4949992 | 499229 | 1145717 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Cumene | CBNZ d5 | Ave | +++++<br>2881027 | 29316<br>3906358 | 102929<br>7867780 | 909531 | 1933574 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,1,2,2-Tetrachloroethane | CBNZ d5 | Ave | +++++<br>1621483 | 19155<br>2159927 | 61507<br>4019167 | 554025 | 1121447 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Propylbenzene | CBNZ d5 | Ave | +++++<br>3288490 | 36213<br>4385780 | 119800<br>8320567 | 1089525 | 2240008 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,3-Trichloropropane | CBNZ d5 | Ave | +++++<br>1270074 | +++++<br>1670351 | 51656<br>3076363 | 446024 | 891121 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 2-Chlorotoluene | CBNZ d5 | Ave | +++++<br>2394857 | 27020<br>3143263 | 91880<br>5683341 | 815176 | 1644169 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Ethyltoluene | CBNZ d5 | Ave | +++++<br>2729221 | 27079<br>3650244 | 93651<br>6809555 | 884698 | 1848488 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Decane | CBNZ d5 | Ave | +++++<br>1274820 | +++++<br>1610403 | 47279<br>2812190 | 459985 | 878685 | +++++<br>15.0 | +++++<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3,5-Trimethylbenzene | CBNZ d5 | Ave | +++++<br>2355671 | 23114<br>3234311 | 82054<br>6482761 | 745825 | 1554299 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Alpha Methyl Styrene | CBNZ d5 | Ave | +++++<br>1218557 | 9587<br>1696220 | 34094<br>3568753 | 363686 | 777137 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| tert-Butylbenzene | CBNZ d5 | Ave | +++++<br>2213181 | 22836<br>3057243 | 80844<br>6126749 | 706952 | 1476064 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.:

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (PPB V/V) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2,4-Trimethylbenzene | CBNZ d5 | Ave | +++++<br>2258916 | 22400<br>3111493 | 79078<br>6172904 | 737746 | 1476244 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| sec-Butylbenzene | CBNZ d5 | Ave | +++++<br>3192856 | 33915<br>4382203 | 119200<br>8564881 | 1050562 | 2159231 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 4-Isopropyltoluene | CBNZ d5 | Ave | +++++<br>2679915 | 25174<br>3679908 | 96795<br>7010047 | 859319 | 1798661 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,3-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>1787525 | 17013<br>2451272 | 61656<br>4838613 | 546052 | 1133111 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,4-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>1738722 | 16731<br>2422997 | 58721<br>5036134 | 521629 | 1096132 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Benzyl chloride | CBNZ d5 | Ave | +++++<br>2165678 | 19826<br>2712939 | 69476<br>5921582 | 684732 | 1436508 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Butylbenzene | CBNZ d5 | Ave | +++++<br>2395940 | 22499<br>3260834 | 81104<br>6192942 | 800504 | 1610123 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Undecane | CBNZ d5 | Ave | +++++<br>1227965 | +++++<br>1712579 | +++++<br>3079359 | 451882 | 795620 | +++++<br>15.0 | +++++<br>20.0 | +++++<br>40.0 | 4.99 | 10.00 |
| 1,2-Dichlorobenzene | CBNZ d5 | Ave | +++++<br>1615500 | 17178<br>2245183 | 57068<br>4673527 | 499077 | 1014364 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| n-Dodecane | CBNZ d5 | Ave | +++++<br>877774 | 9844<br>1423741 | 29445<br>2280760 | 359642 | 376596 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,4-Trichlorobenzene | CBNZ d5 | Ave | +++++<br>981312 | 9522<br>1508246 | 33213<br>3254723 | 298275 | 458411 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Hexachlorobutadiene | CBNZ d5 | Ave | +++++<br>1180429 | 13105<br>1699711 | 45377<br>3176485 | 381714 | 731369 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| Naphthalene | CBNZ d5 | Ave | +++++<br>1695005 | 17925<br>2650982 | 68782<br>5862768 | 516039 | 646954 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |
| 1,2,3-Trichlorobenzene | CBNZ d5 | Ave | +++++<br>872237 | 8206<br>1387870 | 37524<br>2833143 | 272805 | 379355 | +++++<br>15.0 | 0.200<br>20.0 | 0.500<br>40.0 | 4.99 | 10.00 |

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab Sample ID: ICV 200-134490/15 Calibration Date: 09/26/2018 04:37

Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/26/2018 14:32

Lab File ID: 200-32354-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.5940 | 0.6372 | | 10.7 | 10.0 | 7.3 | 30.0 |
| Dichlorodifluoromethane | Ave | 3.448 | 3.556 | | 10.3 | 10.0 | 3.1 | 30.0 |
| Freon 22 | Ave | 1.483 | 1.573 | | 10.6 | 10.0 | 6.0 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 2.626 | 2.644 | | 10.1 | 10.0 | 0.7 | 30.0 |
| Chloromethane | Ave | 0.6890 | 0.7310 | | 10.6 | 10.0 | 6.1 | 30.0 |
| n-Butane | Ave | 0.9168 | 0.997 | | 10.9 | 10.0 | 8.7 | 30.0 |
| Vinyl chloride | Ave | 0.8431 | 0.8441 | | 10.0 | 10.0 | 0.1 | 30.0 |
| 1,3-Butadiene | Ave | 0.5409 | 0.5460 | | 10.1 | 10.0 | 0.9 | 30.0 |
| Bromomethane | Ave | 0.9906 | 0.9870 | | 9.96 | 10.0 | -0.4 | 30.0 |
| Chloroethane | Ave | 0.3025 | 0.3097 | | 10.2 | 10.0 | 2.4 | 30.0 |
| Isopentane | Ave | 0.6558 | 0.6443 | | 9.82 | 10.0 | -1.8 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.9331 | 0.9218 | | 9.88 | 10.0 | -1.2 | 30.0 |
| Trichlorofluoromethane | Ave | 2.851 | 2.807 | | 9.84 | 10.0 | -1.6 | 30.0 |
| n-Pentane | Ave | 0.8883 | 0.9188 | | 10.3 | 10.0 | 3.4 | 30.0 |
| Ethanol | Ave | 0.2368 | 0.1912 | | 12.1 | 15.0 | -19.3 | 30.0 |
| Ethyl ether | Ave | 0.3287 | 0.3609 | | 11.0 | 10.0 | 9.8 | 30.0 |
| Acrolein | Ave | 0.1452 | 0.1661 | | 11.4 | 10.0 | 14.4 | 30.0 |
| Freon TF | Ave | 1.957 | 1.927 | | 9.84 | 10.0 | -1.6 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.8528 | 0.8171 | | 9.58 | 10.0 | -4.2 | 30.0 |
| Acetone | Ave | 0.8507 | 0.8805 | | 10.3 | 10.0 | 3.5 | 30.0 |
| Carbon disulfide | Ave | 2.285 | 2.345 | | 10.3 | 10.0 | 2.6 | 30.0 |
| Isopropyl alcohol | Ave | 0.8053 | 0.8735 | | 10.8 | 10.0 | 8.5 | 30.0 |
| 3-Chloropropene | Ave | 0.6715 | 0.5970 | | 8.89 | 10.0 | -11.1 | 30.0 |
| Acetonitrile | Ave | 0.3135 | 0.3280 | | 10.5 | 10.0 | 4.6 | 30.0 |
| Methylene Chloride | Ave | 0.7919 | 0.8199 | | 10.4 | 10.0 | 3.5 | 30.0 |
| tert-Butyl alcohol | Ave | 1.189 | 1.227 | | 10.3 | 10.0 | 3.2 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.830 | 1.780 | | 9.73 | 10.0 | -2.7 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 0.9688 | 1.062 | | 11.0 | 10.0 | 9.6 | 30.0 |
| Acrylonitrile | Ave | 0.3239 | 0.3353 | | 10.3 | 10.0 | 3.5 | 30.0 |
| n-Hexane | Ave | 0.8050 | 0.8096 | | 10.1 | 10.0 | 0.6 | 30.0 |
| 1,1-Dichloroethane | Ave | 1.353 | 1.324 | | 9.78 | 10.0 | -2.1 | 30.0 |
| Vinyl acetate | Ave | 1.259 | 1.316 | | 10.5 | 10.0 | 4.6 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.8682 | 0.8512 | | 9.80 | 10.0 | -2.0 | 30.0 |
| Methyl Ethyl Ketone | Ave | 0.2812 | 0.2713 | | 9.65 | 10.0 | -3.5 | 30.0 |
| Ethyl acetate | Ave | 0.0410 | 0.0408 | | 9.93 | 10.0 | -0.7 | 30.0 |
| Tetrahydrofuran | Ave | 0.1162 | 0.1214 | | 10.4 | 10.0 | 4.4 | 30.0 |
| Chloroform | Ave | 2.070 | 2.048 | | 9.89 | 10.0 | -1.1 | 30.0 |
| Cyclohexane | Ave | 0.1977 | 0.1974 | | 9.98 | 10.0 | -0.1 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.5077 | 0.5025 | | 9.89 | 10.0 | -1.0 | 30.0 |
| Carbon tetrachloride | Ave | 0.5557 | 0.5763 | | 10.4 | 10.0 | 3.7 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington  Job No.: 200-45925-1

SDG No.:

Lab Sample ID: ICV 200-134490/15  Calibration Date: 09/26/2018 04:37

Instrument ID: CHG.i  Calib Start Date: 09/25/2018 19:24

GC Column: RTX-624  ID: 0.32(mm)  Calib End Date: 09/26/2018 14:32

Lab File ID: 200-32354-015.D  Conc. Units: ppb v/v  Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | Ave | 0.6995 | 0.7309 | | 10.4 | 10.0 | 4.5 | 30.0 |
| Benzene | Ave | 0.5204 | 0.5045 | | 9.69 | 10.0 | -3.0 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.3164 | 0.3226 | | 10.2 | 10.0 | 2.0 | 30.0 |
| n-Heptane | Ave | 0.2468 | 0.2750 | | 11.1 | 10.0 | 11.4 | 30.0 |
| n-Butanol | Ave | 0.0896 | 0.0911 | | 10.2 | 10.0 | 1.6 | 30.0 |
| Trichloroethene | Ave | 0.3266 | 0.3002 | | 9.19 | 10.0 | -8.1 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.2179 | 0.2165 | | 9.93 | 10.0 | -0.6 | 30.0 |
| Methyl methacrylate | Ave | 0.1637 | 0.1642 | | 10.0 | 10.0 | 0.3 | 30.0 |
| Dibromomethane | Ave | 0.2995 | 0.2825 | | 9.43 | 10.0 | -5.7 | 30.0 |
| 1,4-Dioxane | Ave | 0.1047 | 0.1095 | | 10.5 | 10.0 | 4.6 | 30.0 |
| Bromodichloromethane | Ave | 0.5461 | 0.5481 | | 10.0 | 10.0 | 0.4 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.3550 | 0.3577 | | 10.1 | 10.0 | 0.7 | 30.0 |
| methyl isobutyl ketone | Ave | 0.3488 | 0.3706 | | 10.6 | 10.0 | 6.3 | 30.0 |
| Toluene | Ave | 0.4431 | 0.4241 | | 9.57 | 10.0 | -4.3 | 30.0 |
| n-Octane | Ave | 0.4106 | 0.4274 | | 10.4 | 10.0 | 4.1 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.3498 | 0.3450 | | 9.86 | 10.0 | -1.4 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.2474 | 0.2451 | | 9.90 | 10.0 | -0.9 | 30.0 |
| Tetrachloroethene | Ave | 0.4712 | 0.4285 | | 9.09 | 10.0 | -9.1 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.3774 | 0.3808 | | 10.1 | 10.0 | 0.9 | 30.0 |
| Dibromochloromethane | Ave | 0.6345 | 0.6099 | | 9.61 | 10.0 | -3.9 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.4828 | 0.4735 | | 9.80 | 10.0 | -1.9 | 30.0 |
| Chlorobenzene | Ave | 0.6444 | 0.6076 | | 9.43 | 10.0 | -5.7 | 30.0 |
| Ethylbenzene | Ave | 0.9624 | 0.9366 | | 9.73 | 10.0 | -2.7 | 30.0 |
| n-Nonane | Ave | 0.4114 | 0.4327 | | 10.5 | 10.0 | 5.2 | 30.0 |
| m,p-Xylene | Ave | 0.3851 | 0.3714 | | 19.3 | 20.0 | -3.6 | 30.0 |
| Xylene, o- | Ave | 0.3793 | 0.3730 | | 9.83 | 10.0 | -1.7 | 30.0 |
| Styrene | Ave | 0.5285 | 0.5411 | | 10.2 | 10.0 | 2.4 | 30.0 |
| Bromoform | Ave | 0.5930 | 0.5406 | | 9.12 | 10.0 | -8.8 | 30.0 |
| Cumene | Ave | 1.058 | 1.047 | | 9.89 | 10.0 | -1.1 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.6151 | 0.6171 | | 10.0 | 10.0 | 0.3 | 30.0 |
| n-Propylbenzene | Ave | 1.221 | 1.236 | | 10.1 | 10.0 | 1.2 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.4813 | 0.4892 | | 10.2 | 10.0 | 1.6 | 30.0 |
| 2-Chlorotoluene | Ave | 0.8957 | 0.9137 | | 10.2 | 10.0 | 2.0 | 30.0 |
| 4-Ethyltoluene | Ave | 0.9843 | 1.013 | | 10.3 | 10.0 | 2.9 | 30.0 |
| n-Decane | Ave | 0.4671 | 0.5056 | | 10.8 | 10.0 | 8.2 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.8581 | 0.8654 | | 10.1 | 10.0 | 0.8 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.4181 | 0.4389 | | 10.5 | 10.0 | 5.0 | 30.0 |
| tert-Butylbenzene | Ave | 0.8213 | 0.8090 | | 9.85 | 10.0 | -1.5 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.8270 | 0.8444 | | 10.2 | 10.0 | 2.1 | 30.0 |
| sec-Butylbenzene | Ave | 1.195 | 1.202 | | 10.1 | 10.0 | 0.5 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab Sample ID: ICV 200-134490/15 Calibration Date: 09/26/2018 04:37

Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/26/2018 14:32

Lab File ID: 200-32354-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | Ave | 0.9735 | 0.997 | | 10.2 | 10.0 | 2.4 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.6389 | 0.6456 | | 10.1 | 10.0 | 1.0 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.6259 | 0.6305 | | 10.1 | 10.0 | 0.7 | 30.0 |
| Benzyl chloride | Ave | 0.7623 | 0.8056 | | 10.6 | 10.0 | 5.7 | 30.0 |
| n-Butylbenzene | Ave | 0.8652 | 0.9289 | | 10.7 | 10.0 | 7.4 | 30.0 |
| n-Undecane | Ave | 0.4568 | 0.5133 | | 11.2 | 10.0 | 12.4 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.5954 | 0.5873 | | 9.86 | 10.0 | -1.4 | 30.0 |
| n-Dodecane | Ave | 0.3280 | 0.3733 | | 11.4 | 10.0 | 13.8 | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3546 | 0.3915 | | 11.0 | 10.0 | 10.4 | 30.0 |
| Hexachlorobutadiene | Ave | 0.4435 | 0.4443 | | 10.0 | 10.0 | 0.2 | 30.0 |
| Naphthalene | Ave | 0.6323 | 0.7069 | | 11.2 | 10.0 | 11.8 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3260 | 0.3369 | | 10.3 | 10.0 | 3.4 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab Sample ID: CCVIS 200-136163/3 Calibration Date: 10/31/2018 13:56

Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/26/2018 14:32

Lab File ID: 200-32939-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Propylene | Ave | 0.5940 | 0.7833 | | 13.2 | 10.0 | 31.9* | 30.0 |
| Dichlorodifluoromethane | Ave | 3.448 | 4.105 | | 11.9 | 10.0 | 19.1 | 30.0 |
| Freon 22 | Ave | 1.483 | 1.812 | | 12.2 | 10.0 | 22.2 | 30.0 |
| 1,2-Dichlorotetrafluoroethane | Ave | 2.626 | 2.949 | | 11.2 | 10.0 | 12.3 | 30.0 |
| Chloromethane | Ave | 0.6890 | 0.8545 | | 12.4 | 10.0 | 24.0 | 30.0 |
| n-Butane | Ave | 0.9168 | 1.222 | | 13.3 | 10.0 | 33.3* | 30.0 |
| Vinyl chloride | Ave | 0.8431 | 0.9337 | | 11.1 | 10.0 | 10.8 | 30.0 |
| 1,3-Butadiene | Ave | 0.5409 | 0.5884 | | 10.9 | 10.0 | 8.8 | 30.0 |
| Bromomethane | Ave | 0.9906 | 1.020 | | 10.3 | 10.0 | 2.9 | 30.0 |
| Chloroethane | Ave | 0.3025 | 0.3216 | | 10.6 | 10.0 | 6.3 | 30.0 |
| Isopentane | Ave | 0.6558 | 0.7778 | | 11.9 | 10.0 | 18.6 | 30.0 |
| Bromoethene(Vinyl Bromide) | Ave | 0.9331 | 0.9380 | | 10.1 | 10.0 | 0.5 | 30.0 |
| Trichlorofluoromethane | Ave | 2.851 | 3.015 | | 10.6 | 10.0 | 5.8 | 30.0 |
| n-Pentane | Ave | 0.8883 | 1.083 | | 12.2 | 10.0 | 22.0 | 30.0 |
| Ethanol | Ave | 0.2368 | 0.2937 | | 18.6 | 15.0 | 24.1 | 30.0 |
| Ethyl ether | Ave | 0.3287 | 0.3859 | | 11.7 | 10.0 | 17.4 | 30.0 |
| Acrolein | Ave | 0.1452 | 0.1526 | | 10.5 | 10.0 | 5.1 | 30.0 |
| Freon TF | Ave | 1.957 | 2.025 | | 10.3 | 10.0 | 3.5 | 30.0 |
| 1,1-Dichloroethene | Ave | 0.8528 | 0.8874 | | 10.4 | 10.0 | 4.1 | 30.0 |
| Acetone | Ave | 0.8507 | 1.006 | | 11.8 | 10.0 | 18.2 | 30.0 |
| Carbon disulfide | Ave | 2.285 | 2.662 | | 11.6 | 10.0 | 16.5 | 30.0 |
| Isopropyl alcohol | Ave | 0.8053 | 0.9811 | | 12.2 | 10.0 | 21.8 | 30.0 |
| 3-Chloropropene | Ave | 0.6715 | 0.8161 | | 12.2 | 10.0 | 21.5 | 30.0 |
| Acetonitrile | Ave | 0.3135 | 0.3638 | | 11.6 | 10.0 | 16.0 | 30.0 |
| Methylene Chloride | Ave | 0.7919 | 0.9733 | | 12.3 | 10.0 | 22.9 | 30.0 |
| tert-Butyl alcohol | Ave | 1.189 | 1.425 | | 12.0 | 10.0 | 19.8 | 30.0 |
| Methyl tert-butyl ether | Ave | 1.830 | 1.941 | | 10.6 | 10.0 | 6.1 | 30.0 |
| trans-1,2-Dichloroethene | Ave | 0.9688 | 1.217 | | 12.6 | 10.0 | 25.6 | 30.0 |
| Acrylonitrile | Ave | 0.3239 | 0.3572 | | 11.0 | 10.0 | 10.3 | 30.0 |
| n-Hexane | Ave | 0.8050 | 0.9462 | | 11.8 | 10.0 | 17.5 | 30.0 |
| 1,1-Dichloroethane | Ave | 1.353 | 1.492 | | 11.0 | 10.0 | 10.3 | 30.0 |
| Vinyl acetate | Ave | 1.259 | 1.496 | | 11.9 | 10.0 | 18.8 | 30.0 |
| cis-1,2-Dichloroethene | Ave | 0.8682 | 0.9248 | | 10.6 | 10.0 | 6.5 | 30.0 |
| Methyl Ethyl Ketone | Ave | 0.2812 | 0.2836 | | 10.1 | 10.0 | 0.8 | 30.0 |
| Ethyl acetate | Ave | 0.0410 | 0.0429 | | 10.5 | 10.0 | 4.6 | 30.0 |
| Tetrahydrofuran | Ave | 0.1162 | 0.1557 | | 13.4 | 10.0 | 34.0* | 30.0 |
| Chloroform | Ave | 2.070 | 2.246 | | 10.8 | 10.0 | 8.5 | 30.0 |
| Cyclohexane | Ave | 0.1977 | 0.2338 | | 11.8 | 10.0 | 18.3 | 30.0 |
| 1,1,1-Trichloroethane | Ave | 0.5077 | 0.6047 | | 11.9 | 10.0 | 19.1 | 30.0 |
| Carbon tetrachloride | Ave | 0.5557 | 0.7027 | | 12.6 | 10.0 | 26.5 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab Sample ID: CCVIS 200-136163/3 Calibration Date: 10/31/2018 13:56

Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/26/2018 14:32

Lab File ID: 200-32939-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | Ave | 0.6995 | 0.8660 | | 12.4 | 10.0 | 23.8 | 30.0 |
| Benzene | Ave | 0.5204 | 0.5704 | | 11.0 | 10.0 | 9.6 | 30.0 |
| 1,2-Dichloroethane | Ave | 0.3164 | 0.3943 | | 12.5 | 10.0 | 24.6 | 30.0 |
| n-Heptane | Ave | 0.2468 | 0.3468 | | 14.0 | 10.0 | 40.5* | 30.0 |
| n-Butanol | Ave | 0.0896 | 0.1050 | | 11.7 | 10.0 | 17.1 | 30.0 |
| Trichloroethene | Ave | 0.3266 | 0.3408 | | 10.4 | 10.0 | 4.3 | 30.0 |
| 1,2-Dichloropropane | Ave | 0.2179 | 0.2284 | | 10.5 | 10.0 | 4.8 | 30.0 |
| Methyl methacrylate | Ave | 0.1637 | 0.1677 | | 10.2 | 10.0 | 2.4 | 30.0 |
| Dibromomethane | Ave | 0.2995 | 0.3239 | | 10.8 | 10.0 | 8.1 | 30.0 |
| 1,4-Dioxane | Ave | 0.1047 | 0.1113 | | 10.6 | 10.0 | 6.2 | 30.0 |
| Bromodichloromethane | Ave | 0.5461 | 0.6321 | | 11.6 | 10.0 | 15.7 | 30.0 |
| cis-1,3-Dichloropropene | Ave | 0.3550 | 0.3991 | | 11.2 | 10.0 | 12.4 | 30.0 |
| methyl isobutyl ketone | Ave | 0.3488 | 0.4692 | | 13.5 | 10.0 | 34.5* | 30.0 |
| Toluene | Ave | 0.4431 | 0.4426 | | 9.99 | 10.0 | -0.1 | 30.0 |
| n-Octane | Ave | 0.4106 | 0.5309 | | 12.9 | 10.0 | 29.3 | 30.0 |
| trans-1,3-Dichloropropene | Ave | 0.3498 | 0.3937 | | 11.3 | 10.0 | 12.5 | 30.0 |
| 1,1,2-Trichloroethane | Ave | 0.2474 | 0.2584 | | 10.4 | 10.0 | 4.5 | 30.0 |
| Tetrachloroethene | Ave | 0.4712 | 0.4888 | | 10.4 | 10.0 | 3.8 | 30.0 |
| Methyl Butyl Ketone (2-Hexanone) | Ave | 0.3774 | 0.4828 | | 12.8 | 10.0 | 27.9 | 30.0 |
| Dibromochloromethane | Ave | 0.6345 | 0.6909 | | 10.9 | 10.0 | 8.9 | 30.0 |
| 1,2-Dibromoethane | Ave | 0.4828 | 0.4981 | | 10.3 | 10.0 | 3.2 | 30.0 |
| Chlorobenzene | Ave | 0.6444 | 0.6533 | | 10.1 | 10.0 | 1.4 | 30.0 |
| Ethylbenzene | Ave | 0.9624 | 0.9938 | | 10.3 | 10.0 | 3.3 | 30.0 |
| n-Nonane | Ave | 0.4114 | 0.4733 | | 11.5 | 10.0 | 15.1 | 30.0 |
| m,p-Xylene | Ave | 0.3851 | 0.3970 | | 20.6 | 20.0 | 3.1 | 30.0 |
| Xylene, o- | Ave | 0.3793 | 0.3928 | | 10.4 | 10.0 | 3.5 | 30.0 |
| Styrene | Ave | 0.5285 | 0.5726 | | 10.8 | 10.0 | 8.3 | 30.0 |
| Bromoform | Ave | 0.5930 | 0.6360 | | 10.7 | 10.0 | 7.3 | 30.0 |
| Cumene | Ave | 1.058 | 1.116 | | 10.5 | 10.0 | 5.5 | 30.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.6151 | 0.6531 | | 10.6 | 10.0 | 6.2 | 30.0 |
| n-Propylbenzene | Ave | 1.221 | 1.336 | | 10.9 | 10.0 | 9.4 | 30.0 |
| 1,2,3-Trichloropropane | Ave | 0.4813 | 0.5359 | | 11.1 | 10.0 | 11.3 | 30.0 |
| 2-Chlorotoluene | Ave | 0.8957 | 1.027 | | 11.5 | 10.0 | 14.6 | 30.0 |
| 4-Ethyltoluene | Ave | 0.9843 | 1.109 | | 11.3 | 10.0 | 12.6 | 30.0 |
| n-Decane | Ave | 0.4671 | 0.5599 | | 12.0 | 10.0 | 19.9 | 30.0 |
| 1,3,5-Trimethylbenzene | Ave | 0.8581 | 0.9290 | | 10.8 | 10.0 | 8.3 | 30.0 |
| Alpha Methyl Styrene | Ave | 0.4181 | 0.4770 | | 11.4 | 10.0 | 14.1 | 30.0 |
| tert-Butylbenzene | Ave | 0.8213 | 0.8727 | | 10.6 | 10.0 | 6.3 | 30.0 |
| 1,2,4-Trimethylbenzene | Ave | 0.8270 | 0.9132 | | 11.0 | 10.0 | 10.4 | 30.0 |
| sec-Butylbenzene | Ave | 1.195 | 1.306 | | 10.9 | 10.0 | 9.3 | 30.0 |

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Lab Sample ID: CCVIS 200-136163/3 Calibration Date: 10/31/2018 13:56

Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/26/2018 14:32

Lab File ID: 200-32939-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | Ave | 0.9735 | 1.114 | | 11.4 | 10.0 | 14.4 | 30.0 |
| 1,3-Dichlorobenzene | Ave | 0.6389 | 0.7282 | | 11.4 | 10.0 | 14.0 | 30.0 |
| 1,4-Dichlorobenzene | Ave | 0.6259 | 0.7083 | | 11.3 | 10.0 | 13.2 | 30.0 |
| Benzyl chloride | Ave | 0.7623 | 0.8784 | | 11.5 | 10.0 | 15.2 | 30.0 |
| n-Butylbenzene | Ave | 0.8652 | 1.036 | | 12.0 | 10.0 | 19.8 | 30.0 |
| n-Undecane | Ave | 0.4568 | 0.5208 | | 11.4 | 10.0 | 14.0 | 30.0 |
| 1,2-Dichlorobenzene | Ave | 0.5954 | 0.6647 | | 11.2 | 10.0 | 11.6 | 30.0 |
| n-Dodecane | Ave | 0.3280 | 0.4301 | | 13.1 | 10.0 | 31.1* | 30.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.3546 | 0.3896 | | 11.0 | 10.0 | 9.9 | 30.0 |
| Hexachlorobutadiene | Ave | 0.4435 | 0.4729 | | 10.7 | 10.0 | 6.6 | 30.0 |
| Naphthalene | Ave | 0.6323 | 0.7112 | | 11.2 | 10.0 | 12.5 | 30.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.3260 | 0.3439 | | 10.5 | 10.0 | 5.5 | 30.0 |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Instrument ID: CHG.i Start Date: 09/25/2018 16:54

Analysis Batch Number: 134490 End Date: 09/26/2018 14:32

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-134490/1 | | 09/25/2018 16:54 | 1 | 200-32354-001.D | RTX-624 0.32(mm) |
| VIBLK 200-134490/2 | | 09/25/2018 17:44 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-134490/3 | | 09/25/2018 18:34 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 09/25/2018 19:24 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 09/25/2018 20:15 | 1 | | RTX-624 0.32(mm) |
| IC 200-134490/6 | | 09/25/2018 21:05 | 1 | 200-32354-006.D | RTX-624 0.32(mm) |
| IC 200-134490/7 | | 09/25/2018 21:56 | 1 | 200-32354-007.D | RTX-624 0.32(mm) |
| ICIS 200-134490/8 | | 09/25/2018 22:46 | 1 | 200-32354-008.D | RTX-624 0.32(mm) |
| IC 200-134490/9 | | 09/25/2018 23:36 | 1 | 200-32354-009.D | RTX-624 0.32(mm) |
| IC 200-134490/10 | | 09/26/2018 00:26 | 1 | 200-32354-010.D | RTX-624 0.32(mm) |
| IC 200-134490/11 | | 09/26/2018 01:17 | 1 | 200-32354-011.D | RTX-624 0.32(mm) |
| VIBLK 200-134490/12 | | 09/26/2018 02:07 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-134490/13 | | 09/26/2018 02:57 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 09/26/2018 03:47 | 1 | | RTX-624 0.32(mm) |
| ICV 200-134490/15 | | 09/26/2018 04:37 | 1 | 200-32354-015.D | RTX-624 0.32(mm) |
| ZZZZZ | | 09/26/2018 05:27 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-134490/17 | | 09/26/2018 06:18 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 09/26/2018 11:11 | 1 | | RTX-624 0.32(mm) |
| IC 200-134490/19 | | 09/26/2018 12:01 | 1 | 200-32354-019.D | RTX-624 0.32(mm) |
| VIBLK 200-134490/20 | | 09/26/2018 12:52 | 1 | | RTX-624 0.32(mm) |
| VIBLK 200-134490/21 | | 09/26/2018 13:42 | 1 | | RTX-624 0.32(mm) |
| IC 200-134490/22 | | 09/26/2018 14:32 | 1 | 200-32354-022.D | RTX-624 0.32(mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.:

Instrument ID: CHG.i Start Date: 10/31/2018 12:13

Analysis Batch Number: 136163 End Date: 11/01/2018 08:13

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 200-136163/1 | | 10/31/2018 12:13 | 1 | 200-32939-001.D | RTX-624 0.32(mm) |
| CCVIS 200-136163/3 | | 10/31/2018 13:56 | 1 | 200-32939-003.D | RTX-624 0.32(mm) |
| LCS 200-136163/4 | | 10/31/2018 14:46 | 1 | 200-32939-004.D | RTX-624 0.32(mm) |
| MB 200-136163/5 | | 10/31/2018 15:37 | 1 | 200-32939-005.D | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 16:27 | 20 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 17:17 | 8 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 18:07 | 2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 18:57 | 8 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 21:28 | 8 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 22:18 | 2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 23:08 | 70.2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 10/31/2018 23:58 | 1 | | RTX-624 0.32(mm) |
| ZZZZZ | | 11/01/2018 00:48 | 1 | | RTX-624 0.32(mm) |
| 200-45925-11 | | 11/01/2018 02:29 | 0.2 | 200-32939-018.D | RTX-624 0.32(mm) |
| ZZZZZ | | 11/01/2018 03:20 | 0.2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 11/01/2018 04:12 | 0.2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 11/01/2018 05:03 | 0.2 | | RTX-624 0.32(mm) |
| ZZZZZ | | 11/01/2018 08:13 | 56.2 | | RTX-624 0.32(mm) |

# Shipping and Receiving Documents

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| | | |
|---|---|---|
| **Client Contact Information** | **Client Project Manager:** AMY JORDAN | **Samples Collected By:** VICTOR CHANG |
| Company Name: AKRF, Inc. | Phone: 646-388-9864 | COC No: 1 of 2 COCs |
| Address: 440 Park Ave S | Email: AJORDAN@AKRF.com | |
| City/State/Zip NY, NY 10016 | | For Lab Use Only: |
| Phone: 212-696-0670 | Site Contact: VICTOR CHANG | Walk-in Client: |
| FAX: | Tel/Fax 718-864-6329 | Lab Sampling: |
| Project Name: Elton Crossing (Melrose C Family) | Anaylsis Turnaround Time | Job / SDG No.: |
| Site/Location: Bronx, NY | Standard (Specific): X | (See below for Add'l Items) |
| P O # 11401-0830 | Rush (Specifiy): | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, 'Hg (Start)' | Canister Vacuum in Field, 'Hg (Stop)' | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes sectio | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AA-1_20181120 | 11/19-11/20 2018 | 1300 | 1627 | -30.0 | -17.0 | 4055 | 4141 | X | | | | | | | | X | | | | | | *Attempt to run UNDILUTED |
| IA-1_20181120 | | 1257 | 1344 | -30.0 | -3.5 | 3294 | 3036 | X | | | | | | | | X | | | | | | |
| IA-2_20181120 | | 1253 | 1259 | -27.0 | -4.0 | 3167 | 3424 | X | | | | | | | | X | | | | | | |
| IA-3_20181120 | | 1251 | 1300 | -29.0 | -5.5 | 2807 | 5982 | X | | | | | | | | X | | | | | | |
| IA-4_20181120 | | 1249 | 1301 | -30.0 | -7.0 | 3188 | 5017 | X | | | | | | | | X | | | | | | |
| IA-5_20181120 | | 1255 | 1258 | -29.0 | -3.0 | 3664 | 5634 | X | | | | | | | | X | | | | | | |
| MP-1_20181120 | | 1258 | 1515 | -29.0 | -13.0 | 4500 | 5447 | X | | | | | | | | | X | | | | | *Attempt to run UNDILUTED |
| MP-2_20181120 | | 1254 | 1259 | -30.0 | -7.0 | 2806 | 2512 | X | | | | | | | | | X | | | | | |
| MP-3_20181120 | | 1252 | 1300 | -30.0 | -5.0 | 4212 | 4445 | X | | | | | | | | | X | | | | | |
| MP-4_20181120 | | 1250 | 0745 | -30.0 | -1.5 | 2772 | 5154 | X | | | | | | | | | X | | | | | |

| Temperature (Fahrenheit) | | | |
|---|---|---|---|
| Start | Interior 60°F | Ambient 49°F | |
| Stop | 60°F | 48°F | |

| Pressure (inches of Hg) | | | |
|---|---|---|---|
| Start | Interior - | Ambient 30.19 Hg | |
| Stop | - | 29.86 Hg | |

200-46353 Chain of Custody

**Special Instructions/QC Requirements & Comments:**
Cat B Deliverables; Std. TAT; AKRF Equis Deliverables

| | | |
|---|---|---|
| **Samples Shipped by:** | **Date / Time:** | **Samples Received by:** |
| **Samples Relinquished by:** | **Date / Time:** 11/20/18 @ | **Received by:** |
| **Relinquished by:** | **Date / Time:** 11/21/18 | **Received by:** |
| **Lab Use Only:** **Shipper Name:** | **Opened by:** | **Condition:** |

Rel! aw 11/21/18 1720 Rec'd 11/23/18 BIO

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| | | | |
|---|---|---|---|
| **Client Contact Information** | **Client Project Manager:** Amy Jordan | **Samples Collected By:** VICTOR CHANG | COC No: |
| Company Name: AKRF, Inc. | Phone: 646-388-9864 | | 2 of 2 COCs |
| Address: 440 Park Ave S | Email: AJordan@akrf.com | | |
| City/State/Zip NY, NY 100 | | | **For Lab Use Only:** |
| Phone: 212-696-0670 | Site Contact: Victor Chang | | Walk-in Client: |
| FAX: | Tel/Fax 718-864-6329 | | Lab Sampling: |
| Project Name: Elton Crossing (Melrose C Family) | **Anaylsis Turnaround Time** | | |
| Site/Location: Bronx, NY | Standard (Specific): X | | Job / SDG No.: |
| P O # 11901-0030 | Rush (Specifiy): | | (See below for Add'l Items) |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, 'Hg (Start)' | Canister Vacuum in Field, 'Hg (Stop)' | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes sectio | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP-5_20181120 | 11/19/18 | 1256 | 1450 | -30.0 | -3.0 | 4193 | 5621 | X | | | | | | | | | X | | | | | ONLY RAN FOR 2 HRS. |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Temperature (Fahrenheit) | | | |
|---|---|---|---|
| Start | Interior | Ambient | |
| Stop | | | |

| Pressure (inches of Hg) | | | |
|---|---|---|---|
| Start | Interior | Ambient | |
| Stop | | | |

**Special Instructions/QC Requirements & Comments:**

See pg. 1.

| | | |
|---|---|---|
| **Samples Shipped by:** | **Date / Time:** | **Samples Received by:** |
| **Samples Relinquished by:** | **Date / Time:** 11/21/18 @ | **Received by:** |
| **Relinquished by:** | **Date / Time:** 11/21/18 | **Received by:** |

**Lab Use Only:** **Shipper Name:** **Opened by:** **Condition:**

11/21/18 1720 11/23/18 1310

Form No. CA-C-WI-003, Rev. 2.5, dated 9/22/2017

ORIGIN ID:AVA (646) 345-0996
TESTAMERICA NYC

47-32 30ND PLACE,
SUITE 414
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 21NOV15
ACTWGT: 10.00 LB
CAD: 1297692/INET4040

BILL RECIPIENT

TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

552J3/C3B2/DCA5

FedEx Express

J1821808150uu

2 of 4
MPS# 7737 8322 5411
0263
Mstr# 7737 8322 5308

0201

FRI - 23 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

TESTAMERICA NYC

47-32 30ND PLACE,
SUITE 414
LONG ISLAND CITY, NY 11101
UNITED STATES US

BILL RECIPIENT

TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

552J3/C3B2/DCA5

FedEx Express

J1821808150uu

3 of 4
MPS# 7737 8322 5856
0263
Mstr# 7737 8322 5308

0201

FRI - 23 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

(646) 745-098
TESTAMERICA NYC
SUITE 141
LONG ISLAND CITY, NY 11101
UNITED STATES US

BILL RECIPIENT

TO SAMPLING-RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

552J3/C3B2/DCA5

FedEx Express

J18211808150luv

4 of 4

MPS# 0263 7737 8322 5786
Mstr# 7737 8322 5308

0201

FRI - 23 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

# Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-46353-1
SDG Number: 200-46353-1

**Login Number: 46353**
**List Number: 1**
**Creator: Johnson, Eleanor E**

**List Source: TestAmerica Burlington**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | Not present |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | N/A | Thermal preservation not required. |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | VC |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | No analysis requiring residual chlorine check assigned. |

# APPENDIX F

# DATA USABILITY SUMMARY REPORT (DUSR)

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

# DATA USABILITY SUMMARY REPORT (DUSR)

## ORGANIC ANALYSIS

**EPA Compendium Method TO-15**
**VOLATILES BY GC/MS**

**For Sub-Slab, Indoor/Ambient Air Samples Collected**
**November 19, 2018 through November 20, 2018**
**From Elton Crossing**
**Bronx, NY**
**AKRF, Inc.**
**Project #: 11901-030**

**SAMPLE DELIVERY GROUP NUMBER:**
**200-46353-1**
**TestAmerica Laboratories, Inc. (Burlington, VT.)**
**ELAP #10391**

**SUBMITTED TO:**

**Ms. Amy Jordan**
**AKRF, Inc.**
**440 Park Avenue South, 7th Floor**
**New York, NY 10016**

**December 22, 2018**

**PREPARED BY:**

**Lori A. Beyer/President**
**L.A.B. Validation Corp.**
**14 West Point Drive**
**East Northport, NY 11731**

Phone (516) 523-7891 email LABValidation@aol.com

**Elton Crossing, Bronx, NY**; November 2018 Sampling Event.
Data Validation Report: Volatile Organics - Air

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Volatile Organics by GC/MS EPA Compendium Low Level Method TO-15
- 1.1 Holding Time
- 1.2 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.3 Laboratory Control Sample
- 1.4 Blank Contamination
- 1.5 GC/MS Instrument Performance Check
- 1.6 Initial and Continuing Calibrations
- 1.7 Internal Standards
- 1.8 Target Compound List Identification
- 1.9 Compound Quantification and Reported Detection Limits
- 1.10 Overall System Performance

**APPENDICES:**
A. Chain of Custody Documents
B. Case Narrative
C. Data Summary Form Is with Qualifications

## Introduction:

A validation was performed on five (5) sub-slab and six (6) ambient/indoor air samples for volatile Organic analysis collected by AKRF, Inc. and submitted to TestAmerica Laboratories, Inc. (Burlington, VT) for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the eleven (11) field samples itemized below. The samples were collected on November 19, 2018 through November 20, 2018.

The samples were analyzed by TestAmerica Burlington utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the selected TO-15 Target Compound List (TCL) of analytes for Volatile Organics listed in Appendix C.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following air samples:

| Sample Identification | Laboratory Identification | Sample Matrix | Collection Date |
|---|---|---|---|
| AA-1_20181120 | 200-46353-1 | Ambient Air | 11/19/18-11/20/18 |
| IA-1_20181120 | 200-46353-2 | Indoor Air | 11/19/18-11/20/18 |
| IA-2_20181120 | 200-46353-3 | Indoor Air | 11/19/18-11/20/18 |
| IA-3_20181120 | 200-46353-4 | Indoor Air | 11/19/18-11/20/18 |
| IA_4_20181120 | 200-46353-5 | Indoor Air | 11/19/18-11/20/18 |
| IA-5_20181120 | 200-46353-6 | Indoor Air | 11/19/18-11/20/18 |
| MP-1_20181120 | 200-46353-7 | Sub-Slab | 11/19/18-11/20/18 |
| MP-2_20181120 | 200-46353-8 | Sub-Slab | 11/19/18-11/20/18 |
| MP-3_20181120 | 200-46353-9 | Sub-Slab | 11/19/18-11/20/18 |
| MP-4_20181120 | 200-46353-10 | Sub-Slab | 11/19/18-11/20/18 |
| MP-5_20181120 | 200-46353-11 | Sub-Slab | 11/19/18-11/20/18 |

**Data Qualifier Definitions:**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

**U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.**

**J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.**

**J+ - The result is an estimated quantity, but the result may be biased high.**

**J- - The result is an estimated quantity, but the result may be biased low.**

**NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.**

**UJ - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.**

**R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.**

**D - Analyte concentration was obtained from diluted analysis.**

**Sample Receipt:**

The Chain of Custody documents indicate that the air samples were shipped via Federal Express to TestAmerica Burlington and received on 11/23/18 following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Times of Sample Receipt (VTSR) no discrepancies were noted and therefore the integrity of the samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. Initial pressure gauge is recorded on the chain of custody and is required to be approximately 30 psi with zero air. Additionally, post sampling Hg canister pressure should be between -1 and -10 ("Hg). Acceptable initial canister pressure was observed for IA-1_20181120, IA-2_20181120, IA-3_20181120, IA-4_20181120, IA-5_20181120, MP-2_20181120 and MP-3_20181120 as documented on the chain of custody. Elevated vacuum pressure was recorded on the post =sampling air canister pressure check record for AA-1_20181120 (-15.3"Hg), MP-1_20181120 (-16.5"Hg). Results for detections have been qualified, "J" and non-detects, "UJ" for these samples. MP-4_20181120 and MP-5_20181120 were received at ambient pressure. These sample results were not qualified.

The data summary Form I's included in Appendix C and Equis deliverable includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's and onto the excel spreadsheet for ease of review and verification.

**NOTE:**
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

## 1.0 Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results were valid and useable as noted on the data summary Form I's in Appendix C and within the following text:

### 1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

**Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.**

### 1.2 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

**Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG. The laboratory performed LCS with each batch which is acceptable per the methodology. Acceptable recoveries (70-130%) were observed for all reported/spiked analytes.**

**No qualifications to the data were required based on MS/MSD data.**

**Field duplicate analysis was not conducted for this sampling event.**

### 1.3 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

| LCS | NOT QUALIFIED | J | R |
|---|---|---|---|
| % Recovery: | | | |
| Detects | 70-130% | <70%, >130% | |
| Non-Detects | >/=130% | 50-69% | <50% |
| Absolute RT of LCS Compounds: | | | |
| LCS Compounds in samples RT: (min) | +/-0 .33 | | >/=0.33 |

**Acceptable LCS was analyzed with this SDG pertaining to this sampling event. Recovery values for all spiked compounds was determined to be >70 %-< 130% for all analytes.**

## 1.4 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

| Blank Type | Blank Result | Sample Result | Action for Samples |
|---|---|---|---|
| Method, Storage, field, Trip, Instrument | Detects | Not Detected | No qualification required |
| | <CRQL* | <CRQL* | Report CRQL value with a U |
| | | >/= CRQL* and <2x the CRQL** | No qualification required |
| | >CRQL* | </= CRQL* | Report CRQL value with a U |
| | | >/=CRQL* and </= blank concentration | Report blank value for sample concentration with a U |
| | | >/= CRQL* and > blank concentration | No qualification required |
| | =CRQL* | </= CRQL* | Report CRQL value with a U |
| | | >CRQL* | No qualification required |
| | Gross Contamination** | Detects | Report blank value for sample concentration with a U |

*2x the CRQL for methylene chloride, 2-butanone and acetone.
**4x the CRQL for methylene chloride, 2-butanone, and acetone
***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

The table below is utilized to qualify samples with target compound results also present in certification blanks:

| Certification Contamination | Sample Result | Action for Sample |
|---|---|---|
| >/=detect limit | >5x certification contamination | No qualification required |
| >/=detect limit | <detect limit | Detection limit "U" |
| >/=detect limit | >/=detect limit and </= 5x certification contamination level | 5x certification contamination "U" |
| <detect limit | </=detection limit and >/= detection limit | No qualification |

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

**Method and Canister blanks were determined to be free of any contamination. Canister cleaning documentation met QC requirements.**

B) **Field Blank Contamination:**

**Field Blank analysis was not required.**

C) **Trip Blank Contamination:**

**Trip Blank was not required.**

## 1.5 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

**Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.**

## 1.6 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The GC/MS must be calibrated at 5 concentrations that span the monitoring range of interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds can be >0.01 without qualification:
2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,2-Dibromoethane
1,2-Dichloropropane
1,4-Dioxane
1,2-Dibromo-3-chloropropane
Methylene Chloride

**All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) [or >/=0.01 for the 9 compounds above], for the initial and continuing calibrations.**

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% (with poor responding compounds allowed to be up to 40%) and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Acceptable ICV was analyzed (<30%) for all compounds.

**Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) for all reported target compounds.**

**Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) for all reported target compounds.**

**1.7 Internal Standards**

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by (-60% to +140%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-20 seconds from the associated continuing calibration standard. If the area count is outside the (-60% to +140%) range of the associated standard, all the positive results for compounds quantitated using
that IS are qualified as biased high, estimated, "J+", and all non-detects as "R."

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

**Internal Standard area responses met QC requirements for all analysis pertaining to this SDG.**

**1.8 Target Compound List Identification**

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

**GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.**

**1.10 Compound Quantification and Reported Detection Limits**

GC/MS quantitative analysis is acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

**Sample results have been presented in ug/m3 as well as ppbv in the laboratory package. Equis deliverable results are presented in ug/m3.**

**All samples were analyzed at the volumes presented on the Form I's. Reporting limits have been adjusted accordingly. IA-1_20181120 and IA-5_20181120 required reanalysis due to Acetone concentrations over the linear calibration range. The laboratory reported concentrations for this compound have been qualified, "D" as required and must be obtained from diluted reanalysis.**

**MP-1_20181120 (1:50) and MW-2_20181120 (1:20) were analyzed at dilutions due to non-target presence. Review of the raw data indicates dilution was appropriate. Analysis at higher concentration could not be performed. There is potential that lower level detections were lost in dilution. Reporting limits have been adjusted accordingly.**

## 1.11 Overall System Performance

**GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.**

**Reviewer's Signature** Paul A. Bayles **Date** 12/22/2018

# Appendix A
# Chain of Custody
# Documents

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

| Client Contact Information | Client Project Manager: AMY JORDAN | Samples Collected By: VICTOR CHANG | COC No: |
|---|---|---|---|
| Company Name: AKRF, Inc. | Phone: 646-388-9864 | | 1 of 2 COCs |
| Address: 440 Park Ave S | Email: AJORDAN@AKRF.com | | |
| City/State/Zip NY, NY 10016 | | | For Lab Use Only: |
| Phone: 212-696-0670 | Site Contact: VICTOR CHANG | | Walk-in Client: |
| FAX: | Tel/Fax 718-866-3249 | | Lab Sampling: |
| Project Name: Elton Crossing (Melrose C Family) | Anaylsis Turnaround Time | | Job / SDG No.: |
| Site/Location: Bronx, NY | Standard (Specific): X | | (See below for Add'l Items) |
| PO# 11401-0830 | Rush (Specifiy): | | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum In Field, 'Hg (Start)' | Canister Vacuum in Field, 'Hg (Stop)' | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes sectio | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AA-1_20181120 | 11/19-11/20 2018 | 1300 | 1627 | -30.0 | -17.0 | 4055 | 4141 | X | | | | | | | | X | | | | | | *Attempt to run UNDILUTED |
| IA-1_20181120 | | 1257 | 1344 | -30.0 | -3.5 | 3294 | 3036 | X | | | | | | | | X | | | | | | |
| IA-2_20181120 | | 1253 | 1259 | -27.0 | -4.0 | 3167 | 3424 | X | | | | | | | | X | | | | | | |
| IA-3_20181120 | | 1251 | 1300 | -29.0 | -5.5 | 2807 | 5982 | X | | | | | | | | X | | | | | | |
| IA-4_20181120 | | 1249 | 1301 | -30.0 | -7.0 | 3188 | 5017 | X | | | | | | | | X | | | | | | |
| IA-5_20181120 | | 1255 | 1258 | -29.0 | -3.0 | 3664 | 5634 | X | | | | | | | | X | | | | | | |
| MP-1_20181120 | | 1258 | 1515 | -29.0 | -13.0 | 4500 | 5447 | X | | | | | | | | | X | | | | | *Attempt to run UNDILUTED |
| MP-2_20181120 | | 1254 | 1259 | -30.0 | -7.0 | 2806 | 2512 | X | | | | | | | | | X | | | | | |
| MP-3_20181120 | | 1252 | 1300 | -30.0 | -5.0 | 4212 | 4445 | X | | | | | | | | | X | | | | | |
| MP-4_20181120 | | 1250 | 0745 | -30 | -1.5 | 2772 | 5154 | X | | | | | | | | | X | | | | | |

Page 1467 of 1501

| Temperature (Fahrenheit) | | | |
|---|---|---|---|
| Start | Interior 60°F | Ambient 49°F | |
| Stop | 60°F | 45°F | |

| Pressure (inches of Hg) | | | |
|---|---|---|---|
| Start | Interior – | Ambient 30.19 Hg | |
| Stop | – | 29.86 Hg | |

200-46353 Chain of Custody

**Special Instructions/QC Requirements & Comments:**
Cat B Deliverables; Std. TAT; AKRF Equis Deliverables

| Samples Shipped by: | Date / Time: | Samples Received by: |
|---|---|---|
| Samples Relinquished by: | Date / Time: 11/20/18 @ | Received by: |
| Relinquished by: | Date / Time: 11/21/18 | Received by: |
| Lab Use Only: Shipper Name: | Opened by: | Condition: |

Rel! CW 11/21/18 1720 Rec'd 11/23/18 1310

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| | | | |
|---|---|---|---|
| **Client Contact Information** | **Client Project Manager:** Amy Jordan | **Samples Collected By:** VICTOR CHANG | COC No: 2 of 2 COCs |
| Company Name: AKRF, Inc. | Phone: 646-388-9864 | | |
| Address: 440 Park Ave S | Email: AJordan@akrf.com | | |
| City/State/Zip NY, NY 100 | | | |
| Phone: 212-696-0670 | Site Contact: Victor Chang | | For Lab Use Only: |
| FAX: | Tel/Fax 718-864-6329 | | Walk-in Client: |
| Project Name: Elton Crossing (Melrose C Fmly) | Anaylsis Turnaround Time | | Lab Sampling: |
| Site/Location: Bronx, NY | Standard (Specific): X | | Job / SDG No.: |
| PO# 11901-0030 | Rush (Specifiy): | | (See below for Add'l Items) |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum In Field, 'Hg (Start)' | Canister Vacuum In Field, 'Hg (Stop)' | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes sectio | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MP-5_20181120 | 11/19/18 | 1256 | 1450 | -30.0 | -3.0 | 4193 | 5621 | X | | | | | | | | | X | | | | | ONLY RAN FOR 2 HRS. |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | Temperature (Fahrenheit) | | |
|---|---|---|---|
| Start | Interior | Ambient | |
| Stop | | | |

| | Pressure (inches of Hg) | | |
|---|---|---|---|
| Start | Interior | Ambient | |
| Stop | | | |

**Special Instructions/QC Requirements & Comments:**
See pg. 1.

| | | | |
|---|---|---|---|
| **Samples Shipped by:** | **Date / Time:** | **Samples Received by:** | |
| **Samples Relinquished by:** | **Date / Time:** 11/21/18 @ | **Received by:** | |
| **Relinquished by:** | **Date / Time:** 11/21/18 | **Received by:** | |
| **Lab Use Only:** **Shipper Name:** | **Opened by:** | **Condition:** | |

Rel on 11/21/18 1720 11/23/18 1:30

Form No. CA-C-WI-003, Rev. 2.5, dated 9/22/2017

# Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-46353-1
SDG Number: 200-46353-1

**Login Number: 46353**
**List Number: 1**
**Creator: Johnson, Eleanor E**

**List Source: TestAmerica Burlington**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | Not present |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | N/A | Thermal preservation not required. |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | VC |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | No analysis requiring residual chlorine check assigned. |

# Appendix B
# Case Narrative

# CASE NARRATIVE

## Client: AKRF Inc

## Project: Elton Crossing

## Report Number: 200-46353-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

The samples were received on 11/23/2018; the samples arrived in good condition.

During the canister pressure check performed upon receipt, it was observed that sample AA-1_20181120 (200-46353-1) was received at an elevated residual vacuum level, while samples MP-4_20181120 (200-46353-10) and MP-5_20181119 (200-46353-11) were found to be received at ambient pressure. The associated flow controllers were evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate.

During the canister pressure check performed upon receipt, it was observed that sample MP-1_20181120 (200-46353-7) was received at an elevated residual vacuum level. The associated flow controller was evaluated upon receipt and was found to be outside the set flow and possible clogged.

**VOLATILE ORGANIC COMPOUNDS**

Samples AA-1_20181120 (200-46353-1), IA-1_20181120 (200-46353-2), IA-2_20181120 (200-46353-3), IA-3_20181120 (200-46353-4), IA-4_20181120 (200-46353-5), IA-5_20181120 (200-46353-6), MP-1_20181120 (200-46353-7), MP-2_20181120 (200-46353-8), MP-3_20181120 (200-46353-9), MP-4_20181120 (200-46353-10) and MP-5_20181119 (200-46353-11) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/06/2018 and 12/07/2018.

Samples IA-1_20181120 (200-46353-2)[10X], IA-5_20181120 (200-46353-6)[4X], MP-1_20181120 (200-46353-7)[50X] and MP-2_20181120 (200-46353-8)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MP-1_20181120 (200-46353-7) and MP-2_20181120 (200-46353-8) were diluted due to the abundance of non-taget analytes. A more concentrated analysis was not possible.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

12/12/18

## Post-Sampling Air Canister Pressure Check Record

| Login # (w/ Location Code) | Date | Time (Military) | Lab BP ("Hg) | Lab Temp (°C) | Pressure Gauge ID | Analyst |
|---|---|---|---|---|---|---|
| 200-46353 | 11/23/18 | 15:15 | 30.4 | 21 | G20 | EEJ |

| Sampling Information and Return Equipment Check | Yes | No | Comments |
|---|---|---|---|
| (1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present? | | X | |
| (2) Is the flow controller ID used for each canister recorded? | X | | |
| (3) MA MCP & NJ DKQP: Check return flow rate for flow controllers | | X | |
| (4) Is visible sign of damage to canister and/or flow controller (FC) present? | | X | |

If damage observed, list equipment IDs and describe condition:

**Post-Sampling Return Pressure Check**

| Lab ID | Canister ID | Pressure[1] ("Hg) | Anomaly[2] (Y/N) | FC ID[3] | FC Check[4] Reference | FC Return (Y/N) | Can Cert Batch ID | Comments |
|---|---|---|---|---|---|---|---|---|
| 200-46353-A-1 | 4141 | -15.3 | Y | 4055 | 81/76 | Y | 5621-32939 | |
| 200-46353-A-2 | 3036 | -4.5 | N | 3294 | 81/77 | Y | 5621-32939 | |
| 200-46353-A-3 | 3424 | -6.2 | N | 3167 | 81/70 | Y | 5621-32939 | |
| 200-46353-A-4 | 5982 | -4.2 | N | 2807 | 81/77 | Y | 5621-32939 | |
| 200-46353-A-5 | 5017 | -5.9 | N | 3188 | 81/70 | Y | 5621-32939 | |
| 200-46353-A-6 | 5634 | -3.2 | N | 3664 | 81/77 | Y | 5621-32939 | |
| 200-46353-A-7 | 5447 | -16.5 | Y | 4500 | 81/69 | Y | 5621-32939 | |
| 200-46353-A-8 | 2512 | -4.8 | N | 2806 | 81/76 | Y | 5621-32939 | |
| 200-46353-A-9 | 4445 | -5.0 | N | 4212 | 81/76 | Y | 5621-32939 | |
| 200-46353-A-10 | 5154 | 0.0 | Y | 2772 | 81/70 | Y | 5621-32939 | |
| 200-46353-A-11 | 5621 | 0.0 | Y | 4193 | 81/77 | Y | 5621-32939 | |

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

# Appendix C
# Data Summary Form I's
# With Qualifications

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.58 | J | 0.50 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | J | 0.50 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U UJ | 0.20 |
| 74-87-3 | Chloromethane | 50.49 | 0.54 | J | 0.50 |
| 106-97-8 | n-Butane | 58.12 | 2.0 | J | 0.50 |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U UJ | 0.078 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U UJ | 0.20 |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U UJ | 0.20 |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U UJ | 0.50 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U UJ | 0.20 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.25 | J | 0.20 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U UJ | 0.20 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U UJ | 0.035 |
| 67-64-1 | Acetone | 58.08 | 6.5 | J | 5.0 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U UJ | 5.0 |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U UJ | 0.50 |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U UJ | 0.50 |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U UJ | 0.50 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U UJ | 5.0 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U UJ | 0.20 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U UJ | 0.20 |
| 110-54-3 | n-Hexane | 86.17 | 0.26 | J | 0.20 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U UJ | 0.20 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.83 | J | 0.50 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U UJ | 0.050 |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U UJ | 0.20 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U UJ | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U UJ | 0.20 |
| 110-82-7 | Cyclohexane | 84.16 | 0.25 | J | 0.20 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.036 | J | 0.035 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U UJ | 0.20 |
| 71-43-2 | Benzene | 78.11 | 0.36 | J | 0.20 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U UJ | 0.20 |



12/20/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | J | 0.20 |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U UJ | 0.035 |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U UJ | 0.50 |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U UJ | 0.20 |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U UJ | 5.0 |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U UJ | 0.20 |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U UJ | 0.20 |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U UJ | 0.50 |
| 108-88-3 | Toluene | 92.14 | 0.80 | J | 0.20 |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U UJ | 0.20 |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U UJ | 0.20 |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U UJ | 0.20 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U UJ | 0.50 |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U UJ | 0.20 |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U UJ | 0.20 |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U UJ | 0.20 |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U UJ | 0.20 |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U UJ | 0.50 |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U UJ | 0.20 |
| 100-42-5 | Styrene | 104.15 | 0.20 | U UJ | 0.20 |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U UJ | 0.20 |
| 98-82-8 | Cumene | 120.19 | 0.20 | U UJ | 0.20 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U UJ | 0.20 |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U UJ | 0.20 |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U UJ | 0.20 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U UJ | 0.20 |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U UJ | 0.20 |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U UJ | 0.20 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U UJ | 0.20 |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U UJ | 0.20 |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U UJ | 0.20 |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U UJ | 0.20 |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U UJ | 0.20 |



12/20/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | ~~U~~ VJ | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | ~~U~~ VJ | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | ~~U~~ VJ | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | ~~U~~ VJ | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | ~~U~~ VJ | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | ~~U~~ VJ | 0.50 | |



12/20/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.9 | J | 2.5 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | J | 1.8 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U UJ | 1.4 |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | J | 1.0 |
| 106-97-8 | n-Butane | 58.12 | 4.8 | J | 1.2 |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U UJ | 0.20 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U UJ | 0.44 |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U UJ | 0.78 |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U UJ | 1.3 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U UJ | 0.87 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.4 | J | 1.1 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U UJ | 1.5 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U UJ | 0.14 |
| 67-64-1 | Acetone | 58.08 | 16 | J | 12 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U UJ | 12 |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U UJ | 1.6 |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U UJ | 1.6 |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U UJ | 1.7 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U UJ | 15 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U UJ | 0.72 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U UJ | 0.79 |
| 110-54-3 | n-Hexane | 86.17 | 0.93 | J | 0.70 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U UJ | 0.81 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.4 | J | 1.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U UJ | 0.20 |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U UJ | 0.98 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U UJ | 15 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U UJ | 1.1 |
| 110-82-7 | Cyclohexane | 84.16 | 0.87 | J | 0.69 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.23 | J | 0.22 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U UJ | 0.93 |
| 71-43-2 | Benzene | 78.11 | 1.1 | J | 0.64 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U UJ | 0.81 |

FORM I TO-15



12/20/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.84 | J | 0.82 |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 |
| 108-88-3 | Toluene | 92.14 | 3.0 | J | 0.75 |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 |



12/20/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: AA-1_20181120 | Lab Sample ID: 200-46353-1

Matrix: Air | Lab File ID: 200-33531-017.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 16:27

Sample wt/vol: 326(mL) | Date Analyzed: 12/06/2018 03:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | ~~U~~ UJ | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | ~~U~~ UJ | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | ~~U~~ UJ | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | ~~U~~ UJ | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | ~~U~~ UJ | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | ~~U~~ UJ | 2.6 | |



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.53 | | 0.50 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 |
| 74-87-3 | Chloromethane | 50.49 | 0.52 | | 0.50 |
| 106-97-8 | n-Butane | 58.12 | 2.2 | | 0.50 |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 |
| 67-64-1 | Acetone | 58.08 | 130 ~~200~~ ~~E~~ D | | 5.0 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 |
| 110-54-3 | n-Hexane | 86.17 | 0.23 | | 0.20 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 0.91 | | 0.50 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 |
| 67-66-3 | Chloroform | 119.38 | 0.80 | | 0.20 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 |
| 110-82-7 | Cyclohexane | 84.16 | 0.22 | | 0.20 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.058 | | 0.035 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 |
| 71-43-2 | Benzene | 78.11 | 0.30 | | 0.20 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 |



12/11/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.74 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 2.0 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 11 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 3.7 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.24 | | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1 ~~2~~ 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.6 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.1 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 310 ~~480~~ ~~E~~ D | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 0.81 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.7 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 3.9 | | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.76 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.37 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.96 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 2.8 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 8.7 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 46 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 16 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 1.0 | | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.96 | | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-1_20181120 | Lab Sample ID: 200-46353-2

Matrix: Air | Lab File ID: 200-33531-018.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:44

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 04:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.58 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.57 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.55 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.3 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.27 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 5.7 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.42 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.1 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.30 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.070 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.32 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.39 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120  Lab Sample ID: 200-46353-3

Matrix: Air  Lab File ID: 200-33531-019.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | U | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.93 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120  Lab Sample ID: 200-46353-3

Matrix: Air  Lab File ID: 200-33531-019.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.9 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 2.0 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.5 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 13 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.5 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 6.2 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.0 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.44 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 1.5 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.2 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | U | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.5 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-2_20181120 | Lab Sample ID: 200-46353-3

Matrix: Air | Lab File ID: 200-33531-019.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 05:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120  Lab Sample ID: 200-46353-4

Matrix: Air  Lab File ID: 200-33531-020.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.51 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.66 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.4 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 9.2 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.47 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.8 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.35 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.053 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.22 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.32 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120 | Lab Sample ID: 200-46353-4

Matrix: Air | Lab File ID: 200-33531-020.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.90 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.68 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.27 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120  Lab Sample ID: 200-46353-4

Matrix: Air  Lab File ID: 200-33531-020.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120 | Lab Sample ID: 200-46353-4

Matrix: Air | Lab File ID: 200-33531-020.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.4 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.7 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 22 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.7 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 5.2 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.2 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.34 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 1.0 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.0 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120 | Lab Sample ID: 200-46353-4

Matrix: Air | Lab File ID: 200-33531-020.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.82 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.4 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.86 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 3.0 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 1.2 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-3_20181120  Lab Sample ID: 200-46353-4

Matrix: Air  Lab File ID: 200-33531-020.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 | Lab Sample ID: 200-46353-5

Matrix: Air | Lab File ID: 200-33531-021.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.51 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 5.5 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 4.0 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 11 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.77 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.4 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.28 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.046 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.30 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 | Lab Sample ID: 200-46353-5

Matrix: Air | Lab File ID: 200-33531-021.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.21 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.92 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.20 | U | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.50 | U | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.20 | U | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 | Lab Sample ID: 200-46353-5

Matrix: Air | Lab File ID: 200-33531-021.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120  Lab Sample ID: 200-46353-5

Matrix: Air  Lab File ID: 200-33531-021.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 11 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 9.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 26 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 2.7 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 4.0 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.95 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.29 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.97 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120 | Lab Sample ID: 200-46353-5

Matrix: Air | Lab File ID: 200-33531-021.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.87 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.5 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.87 | U | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 2.2 | U | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.87 | U | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-4_20181120  Lab Sample ID: 200-46353-5

Matrix: Air  Lab File ID: 200-33531-021.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:01

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 06:51

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1 2 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.51 | | 0.50 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 |
| 74-87-3 | Chloromethane | 50.49 | 0.62 | | 0.50 |
| 106-97-8 | n-Butane | 58.12 | 2.4 | | 0.50 |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.22 | | 0.20 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 |
| 67-64-1 | Acetone | 58.08 | 120 ~~100~~ | ~~E~~ D | 5.0 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 |
| 110-54-3 | n-Hexane | 86.17 | 0.38 | | 0.20 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 3.5 | | 0.50 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 |
| 110-82-7 | Cyclohexane | 84.16 | 0.39 | | 0.20 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.061 | | 0.035 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 |
| 71-43-2 | Benzene | 78.11 | 0.31 | | 0.20 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 |



12/11/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.20 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.58 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 0.78 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.20 | U | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.3 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 6.1 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 2.1 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120  Lab Sample ID: 200-46353-6

Matrix: Air  Lab File ID: 200-33531-022.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1 9.4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.5 | | 2.5 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 |
| 74-87-3 | Chloromethane | 50.49 | 1.3 | | 1.0 |
| 106-97-8 | n-Butane | 58.12 | 5.6 | | 1.2 |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.3 | | 1.1 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 |
| 67-64-1 | Acetone | 58.08 | 290 ~~240~~ E D | | 12 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 |
| 110-54-3 | n-Hexane | 86.17 | 1.3 | | 0.70 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 10 | | 1.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 |
| 110-82-7 | Cyclohexane | 84.16 | 1.3 | | 0.69 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.39 | | 0.22 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 |
| 71-43-2 | Benzene | 78.11 | 0.98 | | 0.64 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 |



12/12/18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120 | Lab Sample ID: 200-46353-6

Matrix: Air | Lab File ID: 200-33531-022.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.83 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.4 | | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 3.0 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.4 | U | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 5.5 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 26 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 9.3 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: IA-5_20181120  Lab Sample ID: 200-46353-6

Matrix: Air  Lab File ID: 200-33531-022.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:58

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 07:42

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624 ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 25 | U UJ | 25 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 25 | U UJ | 25 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 10 | U UJ | 10 |
| 74-87-3 | Chloromethane | 50.49 | 25 | U UJ | 25 |
| 106-97-8 | n-Butane | 58.12 | 25 | U UJ | 25 |
| 75-01-4 | Vinyl chloride | 62.50 | 3.9 | U UJ | 3.9 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 10 | U UJ | 10 |
| 74-83-9 | Bromomethane | 94.94 | 10 | U UJ | 10 |
| 75-00-3 | Chloroethane | 64.52 | 25 | U UJ | 25 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 10 | U UJ | 10 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 10 | U UJ | 10 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 10 | U UJ | 10 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 1.8 | U UJ | 1.8 |
| 67-64-1 | Acetone | 58.08 | 250 | U UJ | 250 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 250 | U UJ | 250 |
| 75-15-0 | Carbon disulfide | 76.14 | 25 | U UJ | 25 |
| 107-05-1 | 3-Chloropropene | 76.53 | 25 | U UJ | 25 |
| 75-09-2 | Methylene Chloride | 84.93 | 25 | U UJ | 25 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 250 | U UJ | 250 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 10 | U UJ | 10 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 10 | U UJ | 10 |
| 110-54-3 | n-Hexane | 86.17 | 10 | U UJ | 10 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 10 | U UJ | 10 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 25 | U UJ | 25 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 2.5 | U UJ | 2.5 |
| 67-66-3 | Chloroform | 119.38 | 62 | J | 10 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 250 | U UJ | 250 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 10 | U UJ | 10 |
| 110-82-7 | Cyclohexane | 84.16 | 10 | U UJ | 10 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 1.8 | U UJ | 1.8 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 10 | U UJ | 10 |
| 71-43-2 | Benzene | 78.11 | 10 | U UJ | 10 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 10 | U UJ | 10 |

FORM I TO-15



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 10 | U | 10 |
| 79-01-6 | Trichloroethene | 131.39 | 1.8 | U | 1.8 |
| 80-62-6 | Methyl methacrylate | 100.12 | 25 | U | 25 |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 10 | U | 10 |
| 123-91-1 | 1,4-Dioxane | 88.11 | 250 | U | 250 |
| 75-27-4 | Bromodichloromethane | 163.83 | 10 | U | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 10 | U | 10 |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 25 | U | 25 |
| 108-88-3 | Toluene | 92.14 | 10 | U | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 10 | U | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 10 | U | 10 |
| 127-18-4 | Tetrachloroethene | 165.83 | 10 | U | 10 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 25 | U | 25 |
| 124-48-1 | Dibromochloromethane | 208.29 | 10 | U | 10 |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 10 | U | 10 |
| 108-90-7 | Chlorobenzene | 112.56 | 10 | U | 10 |
| 100-41-4 | Ethylbenzene | 106.17 | 10 | U | 10 |
| 179601-23-1 | m,p-Xylene | 106.17 | 25 | U | 25 |
| 95-47-6 | o-Xylene | 106.17 | 10 | U | 10 |
| 100-42-5 | Styrene | 104.15 | 10 | U | 10 |
| 75-25-2 | Bromoform | 252.75 | 10 | U | 10 |
| 98-82-8 | Cumene | 120.19 | 10 | U | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 10 | U | 10 |
| 103-65-1 | n-Propylbenzene | 120.19 | 10 | U | 10 |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 10 | U | 10 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 10 | U | 10 |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 10 | U | 10 |
| 98-06-6 | tert-Butylbenzene | 134.22 | 10 | U | 10 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 10 | U | 10 |
| 135-98-8 | sec-Butylbenzene | 134.22 | 10 | U | 10 |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 10 | U | 10 |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 10 | U | 10 |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 10 | U | 10 |



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 10 | U UJ | 10 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 10 | U UJ | 10 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 10 | U UJ | 10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 25 | U UJ | 25 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 10 | U UJ | 10 | |
| 91-20-3 | Naphthalene | 128.17 | 25 | U UJ | 25 | |



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 120 | U UJ | 120 |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 88 | U UJ | 88 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 70 | U UJ | 70 |
| 74-87-3 | Chloromethane | 50.49 | 52 | U UJ | 52 |
| 106-97-8 | n-Butane | 58.12 | 59 | U UJ | 59 |
| 75-01-4 | Vinyl chloride | 62.50 | 10 | U UJ | 10 |
| 106-99-0 | 1,3-Butadiene | 54.09 | 22 | U UJ | 22 |
| 74-83-9 | Bromomethane | 94.94 | 39 | U UJ | 39 |
| 75-00-3 | Chloroethane | 64.52 | 66 | U UJ | 66 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 44 | U UJ | 44 |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 56 | U UJ | 56 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 77 | U UJ | 77 |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 7.0 | U UJ | 7.0 |
| 67-64-1 | Acetone | 58.08 | 590 | U UJ | 590 |
| 67-63-0 | Isopropyl alcohol | 60.10 | 610 | U UJ | 610 |
| 75-15-0 | Carbon disulfide | 76.14 | 78 | U UJ | 78 |
| 107-05-1 | 3-Chloropropene | 76.53 | 78 | U UJ | 78 |
| 75-09-2 | Methylene Chloride | 84.93 | 87 | U UJ | 87 |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 760 | U UJ | 760 |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 36 | U UJ | 36 |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 40 | U UJ | 40 |
| 110-54-3 | n-Hexane | 86.17 | 35 | U UJ | 35 |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 40 | U UJ | 40 |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 74 | U UJ | 74 |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 10 | U UJ | 10 |
| 67-66-3 | Chloroform | 119.38 | 300 | J | 49 |
| 109-99-9 | Tetrahydrofuran | 72.11 | 740 | U UJ | 740 |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 55 | U UJ | 55 |
| 110-82-7 | Cyclohexane | 84.16 | 34 | U UJ | 34 |
| 56-23-5 | Carbon tetrachloride | 153.81 | 11 | U UJ | 11 |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 47 | U UJ | 47 |
| 71-43-2 | Benzene | 78.11 | 32 | U UJ | 32 |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 40 | U UJ | 40 |



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL |
|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 41 | U UJ | 41 |
| 79-01-6 | Trichloroethene | 131.39 | 9.4 | U UJ | 9.4 |
| 80-62-6 | Methyl methacrylate | 100.12 | 100 | U UJ | 100 |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 46 | U UJ | 46 |
| 123-91-1 | 1,4-Dioxane | 88.11 | 900 | U UJ | 900 |
| 75-27-4 | Bromodichloromethane | 163.83 | 67 | U UJ | 67 |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 45 | U UJ | 45 |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 100 | U UJ | 100 |
| 108-88-3 | Toluene | 92.14 | 38 | U UJ | 38 |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 45 | U UJ | 45 |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 55 | U UJ | 55 |
| 127-18-4 | Tetrachloroethene | 165.83 | 68 | U UJ | 68 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 100 | U UJ | 100 |
| 124-48-1 | Dibromochloromethane | 208.29 | 85 | U UJ | 85 |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 77 | U UJ | 77 |
| 108-90-7 | Chlorobenzene | 112.56 | 46 | U UJ | 46 |
| 100-41-4 | Ethylbenzene | 106.17 | 43 | U UJ | 43 |
| 179601-23-1 | m,p-Xylene | 106.17 | 110 | U UJ | 110 |
| 95-47-6 | o-Xylene | 106.17 | 43 | U UJ | 43 |
| 100-42-5 | Styrene | 104.15 | 43 | U UJ | 43 |
| 75-25-2 | Bromoform | 252.75 | 100 | U UJ | 100 |
| 98-82-8 | Cumene | 120.19 | 49 | U UJ | 49 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 69 | U UJ | 69 |
| 103-65-1 | n-Propylbenzene | 120.19 | 49 | U UJ | 49 |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 49 | U UJ | 49 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 49 | U UJ | 49 |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 52 | U UJ | 52 |
| 98-06-6 | tert-Butylbenzene | 134.22 | 55 | U UJ | 55 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 49 | U UJ | 49 |
| 135-98-8 | sec-Butylbenzene | 134.22 | 55 | U UJ | 55 |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 55 | U UJ | 55 |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 60 | U UJ | 60 |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 60 | U UJ | 60 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-1_20181120 | Lab Sample ID: 200-46353-7

Matrix: Air | Lab File ID: 200-33531-023.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 15:15

Sample wt/vol: 22(mL) | Date Analyzed: 12/06/2018 08:32

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 52 | ~~U~~ UJ | 52 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 55 | ~~U~~ UJ | 55 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 60 | ~~U~~ UJ | 60 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 190 | ~~U~~ UJ | 190 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 110 | ~~U~~ UJ | 110 | |
| 91-20-3 | Naphthalene | 128.17 | 130 | ~~U~~ UJ | 130 | |



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 10 | U | 10 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 10 | U | 10 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 4.0 | U | 4.0 | |
| 74-87-3 | Chloromethane | 50.49 | 10 | U | 10 | |
| 106-97-8 | n-Butane | 58.12 | 10 | U | 10 | |
| 75-01-4 | Vinyl chloride | 62.50 | 1.6 | U | 1.6 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 4.0 | U | 4.0 | |
| 74-83-9 | Bromomethane | 94.94 | 4.0 | U | 4.0 | |
| 75-00-3 | Chloroethane | 64.52 | 10 | U | 10 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 4.0 | U | 4.0 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 4.0 | U | 4.0 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 4.0 | U | 4.0 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.70 | U | 0.70 | |
| 67-64-1 | Acetone | 58.08 | 100 | U | 100 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 100 | U | 100 | |
| 75-15-0 | Carbon disulfide | 76.14 | 10 | U | 10 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 10 | U | 10 | |
| 75-09-2 | Methylene Chloride | 84.93 | 10 | U | 10 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 100 | U | 100 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 4.0 | U | 4.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 4.0 | U | 4.0 | |
| 110-54-3 | n-Hexane | 86.17 | 4.0 | U | 4.0 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 4.0 | U | 4.0 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 10 | U | 10 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 1.0 | U | 1.0 | |
| 67-66-3 | Chloroform | 119.38 | 4.0 | U | 4.0 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 100 | U | 100 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 4.0 | U | 4.0 | |
| 110-82-7 | Cyclohexane | 84.16 | 4.0 | U | 4.0 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.70 | U | 0.70 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 4.0 | U | 4.0 | |
| 71-43-2 | Benzene | 78.11 | 4.0 | U | 4.0 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 4.0 | U | 4.0 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 4.2 | | 4.0 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.70 | U | 0.70 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 10 | U | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 4.0 | U | 4.0 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 100 | U | 100 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 4.0 | U | 4.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 4.0 | U | 4.0 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 10 | U | 10 | |
| 108-88-3 | Toluene | 92.14 | 4.0 | U | 4.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 4.0 | U | 4.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 4.0 | U | 4.0 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 4.0 | U | 4.0 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 10 | U | 10 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 4.0 | U | 4.0 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 4.0 | U | 4.0 | |
| 108-90-7 | Chlorobenzene | 112.56 | 4.0 | U | 4.0 | |
| 100-41-4 | Ethylbenzene | 106.17 | 4.0 | U | 4.0 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 10 | U | 10 | |
| 95-47-6 | o-Xylene | 106.17 | 4.0 | U | 4.0 | |
| 100-42-5 | Styrene | 104.15 | 4.0 | U | 4.0 | |
| 75-25-2 | Bromoform | 252.75 | 4.0 | U | 4.0 | |
| 98-82-8 | Cumene | 120.19 | 4.0 | U | 4.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 4.0 | U | 4.0 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 4.0 | U | 4.0 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 4.0 | U | 4.0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 4.0 | U | 4.0 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 4.0 | U | 4.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 4.0 | U | 4.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 4.0 | U | 4.0 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 4.0 | U | 4.0 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 4.0 | U | 4.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 4.0 | U | 4.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 4.0 | U | 4.0 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120  Lab Sample ID: 200-46353-8

Matrix: Air  Lab File ID: 200-33531-024.D

Analysis Method: TO-15  Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL)  Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol:  Dilution Factor: 20

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 4.0 | U | 4.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 4.0 | U | 4.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 4.0 | U | 4.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 10 | U | 10 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 4.0 | U | 4.0 | |
| 91-20-3 | Naphthalene | 128.17 | 10 | U | 10 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 49 | U | 49 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 35 | U | 35 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 28 | U | 28 | |
| 74-87-3 | Chloromethane | 50.49 | 21 | U | 21 | |
| 106-97-8 | n-Butane | 58.12 | 24 | U | 24 | |
| 75-01-4 | Vinyl chloride | 62.50 | 4.0 | U | 4.0 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 8.8 | U | 8.8 | |
| 74-83-9 | Bromomethane | 94.94 | 16 | U | 16 | |
| 75-00-3 | Chloroethane | 64.52 | 26 | U | 26 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 17 | U | 17 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 22 | U | 22 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 31 | U | 31 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 2.8 | U | 2.8 | |
| 67-64-1 | Acetone | 58.08 | 240 | U | 240 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 250 | U | 250 | |
| 75-15-0 | Carbon disulfide | 76.14 | 31 | U | 31 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 31 | U | 31 | |
| 75-09-2 | Methylene Chloride | 84.93 | 35 | U | 35 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 300 | U | 300 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 14 | U | 14 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 16 | U | 16 | |
| 110-54-3 | n-Hexane | 86.17 | 14 | U | 14 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 16 | U | 16 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 29 | U | 29 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 4.0 | U | 4.0 | |
| 67-66-3 | Chloroform | 119.38 | 20 | U | 20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 290 | U | 290 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 22 | U | 22 | |
| 110-82-7 | Cyclohexane | 84.16 | 14 | U | 14 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 4.4 | U | 4.4 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 19 | U | 19 | |
| 71-43-2 | Benzene | 78.11 | 13 | U | 13 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 16 | U | 16 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 17 | | 16 | |
| 79-01-6 | Trichloroethene | 131.39 | 3.8 | U | 3.8 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 41 | U | 41 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 18 | U | 18 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 360 | U | 360 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 27 | U | 27 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 18 | U | 18 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 41 | U | 41 | |
| 108-88-3 | Toluene | 92.14 | 15 | U | 15 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 18 | U | 18 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 22 | U | 22 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 27 | U | 27 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 41 | U | 41 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 34 | U | 34 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 31 | U | 31 | |
| 108-90-7 | Chlorobenzene | 112.56 | 18 | U | 18 | |
| 100-41-4 | Ethylbenzene | 106.17 | 17 | U | 17 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 43 | U | 43 | |
| 95-47-6 | o-Xylene | 106.17 | 17 | U | 17 | |
| 100-42-5 | Styrene | 104.15 | 17 | U | 17 | |
| 75-25-2 | Bromoform | 252.75 | 41 | U | 41 | |
| 98-82-8 | Cumene | 120.19 | 20 | U | 20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 27 | U | 27 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 20 | U | 20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 20 | U | 20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 20 | U | 20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 21 | U | 21 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 22 | U | 22 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 20 | U | 20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 22 | U | 22 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 22 | U | 22 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 24 | U | 24 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 24 | U | 24 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-2_20181120 | Lab Sample ID: 200-46353-8

Matrix: Air | Lab File ID: 200-33531-024.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 12:59

Sample wt/vol: 24(mL) | Date Analyzed: 12/06/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 21 | U | 21 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 22 | U | 22 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 24 | U | 24 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 74 | U | 74 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 43 | U | 43 | |
| 91-20-3 | Naphthalene | 128.17 | 52 | U | 52 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.86 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.76 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.63 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.2 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 2.5 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 34 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 0.50 | U | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.99 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 1.6 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.99 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.80 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.053 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.24 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 4.4 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.23 | | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 3.6 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 1.7 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 1.3 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.38 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 1.1 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.47 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.40 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120  Lab Sample ID: 200-46353-9

Matrix: Air  Lab File ID: 200-33531-025.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 4.3 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 2.7 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.3 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.1 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 14 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 82 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.6 | U | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 3.5 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 4.6 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 4.8 | | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 2.7 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.33 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 0.76 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120 | Lab Sample ID: 200-46353-9

Matrix: Air | Lab File ID: 200-33531-025.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137819 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 18 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 1.2 | | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 14 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 12 | | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 5.5 | | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.6 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 5.0 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 2.0 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 2.0 | | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-3_20181120  Lab Sample ID: 200-46353-9

Matrix: Air  Lab File ID: 200-33531-025.D

Analysis Method: TO-15  Date Collected: 11/20/2018 13:00

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 10:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137819  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.58 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.53 | | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 0.54 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 3.6 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.31 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 28 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 1.2 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 1.0 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 2.5 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.20 | U | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.52 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.079 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.31 | | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.48 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 1.7 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.50 | U | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 2.2 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.32 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.78 | | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.28 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.97 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.41 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.29 | | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 2.9 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.9 | | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 8.6 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 1.7 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 66 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 3.7 | | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 3.6 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 7.5 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 0.98 | U | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.8 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.50 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 1.4 | | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.5 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120 | Lab Sample ID: 200-46353-10

Matrix: Air | Lab File ID: 200-33558-012.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL) | Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 6.8 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 2.0 | U | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 8.2 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 2.2 | | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 3.2 | | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.2 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 4.2 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 1.8 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 1.4 | | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-4_20181120  Lab Sample ID: 200-46353-10

Matrix: Air  Lab File ID: 200-33558-012.D

Analysis Method: TO-15  Date Collected: 11/20/2018 07:45

Sample wt/vol: 200(mL)  Date Analyzed: 12/06/2018 23:23

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 0.62 | | 0.50 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 0.50 | U | 0.50 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 0.20 | U | 0.20 | |
| 74-87-3 | Chloromethane | 50.49 | 1.1 | | 0.50 | |
| 106-97-8 | n-Butane | 58.12 | 2.1 | | 0.50 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.078 | U | 0.078 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.20 | U | 0.20 | |
| 74-83-9 | Bromomethane | 94.94 | 0.20 | U | 0.20 | |
| 75-00-3 | Chloroethane | 64.52 | 0.50 | U | 0.50 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.20 | U | 0.20 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 0.39 | | 0.20 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 0.20 | U | 0.20 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.035 | U | 0.035 | |
| 67-64-1 | Acetone | 58.08 | 17 | | 5.0 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 5.0 | U | 5.0 | |
| 75-15-0 | Carbon disulfide | 76.14 | 2.4 | | 0.50 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 0.50 | U | 0.50 | |
| 75-09-2 | Methylene Chloride | 84.93 | 0.50 | U | 0.50 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 5.0 | U | 5.0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.20 | U | 0.20 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 110-54-3 | n-Hexane | 86.17 | 0.43 | | 0.20 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 6.9 | | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.050 | U | 0.050 | |
| 67-66-3 | Chloroform | 119.38 | 0.21 | | 0.20 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 5.0 | U | 5.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 110-82-7 | Cyclohexane | 84.16 | 0.32 | | 0.20 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.094 | | 0.035 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.20 | U | 0.20 | |
| 71-43-2 | Benzene | 78.11 | 0.40 | | 0.20 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 0.61 | | 0.20 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.035 | U | 0.035 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 0.50 | U | 0.50 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.20 | U | 0.20 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 5.0 | U | 5.0 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 0.20 | U | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 0.86 | | 0.50 | |
| 108-88-3 | Toluene | 92.14 | 1.1 | | 0.20 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.20 | U | 0.20 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 0.20 | U | 0.20 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 0.36 | | 0.20 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 0.50 | U | 0.50 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 0.20 | U | 0.20 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 0.20 | U | 0.20 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.20 | U | 0.20 | |
| 100-41-4 | Ethylbenzene | 106.17 | 0.34 | | 0.20 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 0.76 | | 0.50 | |
| 95-47-6 | o-Xylene | 106.17 | 0.22 | | 0.20 | |
| 100-42-5 | Styrene | 104.15 | 0.20 | U | 0.20 | |
| 75-25-2 | Bromoform | 252.75 | 0.20 | U | 0.20 | |
| 98-82-8 | Cumene | 120.19 | 0.20 | U | 0.20 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 0.20 | U | 0.20 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.20 | U | 0.20 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.20 | U | 0.20 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 0.20 | U | 0.20 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.20 | U | 0.20 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 0.20 | U | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119  Lab Sample ID: 200-46353-11

Matrix: Air  Lab File ID: 200-33558-013.D

Analysis Method: TO-15  Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ppb v/v

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 0.20 | U | 0.20 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 0.20 | U | 0.20 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 0.20 | U | 0.20 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 0.50 | U | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 0.20 | U | 0.20 | |
| 91-20-3 | Naphthalene | 128.17 | 0.50 | U | 0.50 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 120.91 | 3.1 | | 2.5 | |
| 75-45-6 | Chlorodifluoromethane | 86.47 | 1.8 | U | 1.8 | |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 170.92 | 1.4 | U | 1.4 | |
| 74-87-3 | Chloromethane | 50.49 | 2.3 | | 1.0 | |
| 106-97-8 | n-Butane | 58.12 | 5.1 | | 1.2 | |
| 75-01-4 | Vinyl chloride | 62.50 | 0.20 | U | 0.20 | |
| 106-99-0 | 1,3-Butadiene | 54.09 | 0.44 | U | 0.44 | |
| 74-83-9 | Bromomethane | 94.94 | 0.78 | U | 0.78 | |
| 75-00-3 | Chloroethane | 64.52 | 1.3 | U | 1.3 | |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 106.96 | 0.87 | U | 0.87 | |
| 75-69-4 | Trichlorofluoromethane | 137.37 | 2.2 | | 1.1 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 187.38 | 1.5 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 96.94 | 0.14 | U | 0.14 | |
| 67-64-1 | Acetone | 58.08 | 41 | | 12 | |
| 67-63-0 | Isopropyl alcohol | 60.10 | 12 | U | 12 | |
| 75-15-0 | Carbon disulfide | 76.14 | 7.5 | | 1.6 | |
| 107-05-1 | 3-Chloropropene | 76.53 | 1.6 | U | 1.6 | |
| 75-09-2 | Methylene Chloride | 84.93 | 1.7 | U | 1.7 | |
| 75-65-0 | tert-Butyl alcohol | 74.12 | 15 | U | 15 | |
| 1634-04-4 | Methyl tert-butyl ether | 88.15 | 0.72 | U | 0.72 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96.94 | 0.79 | U | 0.79 | |
| 110-54-3 | n-Hexane | 86.17 | 1.5 | | 0.70 | |
| 75-34-3 | 1,1-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |
| 78-93-3 | Methyl Ethyl Ketone (2-Butanone) | 72.11 | 20 | | 1.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | 96.94 | 0.20 | U | 0.20 | |
| 67-66-3 | Chloroform | 119.38 | 1.0 | | 0.98 | |
| 109-99-9 | Tetrahydrofuran | 72.11 | 15 | U | 15 | |
| 71-55-6 | 1,1,1-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 110-82-7 | Cyclohexane | 84.16 | 1.1 | | 0.69 | |
| 56-23-5 | Carbon tetrachloride | 153.81 | 0.59 | | 0.22 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 114.23 | 0.93 | U | 0.93 | |
| 71-43-2 | Benzene | 78.11 | 1.3 | | 0.64 | |
| 107-06-2 | 1,2-Dichloroethane | 98.96 | 0.81 | U | 0.81 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119 | Lab Sample ID: 200-46353-11

Matrix: Air | Lab File ID: 200-33558-013.D

Analysis Method: TO-15 | Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL) | Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137867 | Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 142-82-5 | n-Heptane | 100.21 | 2.5 | | 0.82 | |
| 79-01-6 | Trichloroethene | 131.39 | 0.19 | U | 0.19 | |
| 80-62-6 | Methyl methacrylate | 100.12 | 2.0 | U | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 112.99 | 0.92 | U | 0.92 | |
| 123-91-1 | 1,4-Dioxane | 88.11 | 18 | U | 18 | |
| 75-27-4 | Bromodichloromethane | 163.83 | 1.3 | U | 1.3 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 108-10-1 | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100.16 | 3.5 | | 2.0 | |
| 108-88-3 | Toluene | 92.14 | 4.3 | | 0.75 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 110.97 | 0.91 | U | 0.91 | |
| 79-00-5 | 1,1,2-Trichloroethane | 133.41 | 1.1 | U | 1.1 | |
| 127-18-4 | Tetrachloroethene | 165.83 | 2.4 | | 1.4 | |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 100.20 | 2.0 | U | 2.0 | |
| 124-48-1 | Dibromochloromethane | 208.29 | 1.7 | U | 1.7 | |
| 106-93-4 | 1,2-Dibromoethane | 187.87 | 1.5 | U | 1.5 | |
| 108-90-7 | Chlorobenzene | 112.56 | 0.92 | U | 0.92 | |
| 100-41-4 | Ethylbenzene | 106.17 | 1.5 | | 0.87 | |
| 179601-23-1 | m,p-Xylene | 106.17 | 3.3 | | 2.2 | |
| 95-47-6 | o-Xylene | 106.17 | 0.94 | | 0.87 | |
| 100-42-5 | Styrene | 104.15 | 0.85 | U | 0.85 | |
| 75-25-2 | Bromoform | 252.75 | 2.1 | U | 2.1 | |
| 98-82-8 | Cumene | 120.19 | 0.98 | U | 0.98 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 167.85 | 1.4 | U | 1.4 | |
| 103-65-1 | n-Propylbenzene | 120.19 | 0.98 | U | 0.98 | |
| 622-96-8 | 4-Ethyltoluene | 120.20 | 0.98 | U | 0.98 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 95-49-8 | 2-Chlorotoluene | 126.59 | 1.0 | U | 1.0 | |
| 98-06-6 | tert-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120.20 | 0.98 | U | 0.98 | |
| 135-98-8 | sec-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 99-87-6 | 4-Isopropyltoluene | 134.22 | 1.1 | U | 1.1 | |
| 541-73-1 | 1,3-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-46353-1

SDG No.: 200-46353-1

Client Sample ID: MP-5_20181119  Lab Sample ID: 200-46353-11

Matrix: Air  Lab File ID: 200-33558-013.D

Analysis Method: TO-15  Date Collected: 11/19/2018 14:50

Sample wt/vol: 200(mL)  Date Analyzed: 12/07/2018 00:13

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 137867  Units: ug/m3

| CAS NO. | COMPOUND NAME | MOLECULAR WEIGHT | RESULT | Q | RL | |
|---|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 126.58 | 1.0 | U | 1.0 | |
| 104-51-8 | n-Butylbenzene | 134.22 | 1.1 | U | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 147.00 | 1.2 | U | 1.2 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45 | 3.7 | U | 3.7 | |
| 87-68-3 | Hexachlorobutadiene | 260.76 | 2.1 | U | 2.1 | |
| 91-20-3 | Naphthalene | 128.17 | 2.6 | U | 2.6 | |