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Dorrit Blakeslee
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Re: Supplemental Indoor Air Quality and Sub-Slab Investigation Letter Report
47-25 34th Street
Long Island City, New York 11101
AECOM Project No. 60602814

Dear Ms. Blakeslee:

At the request of the New York City Department of Transportation (DOT), AECOM USA, Inc. (AECOM) performed a Supplemental Indoor Air Quality (IAQ) and Sub-Slab Soil Investigation at the privately owned site located at 47-25 34th Street, Long Island City, Queens County, New York 11101 (Project Area). The DOT is leasing approximately 149,000 square feet of a 322,390 gross square foot facility. The DOT lease includes the approximately 13,000 square feet (sf) of exterior paved surface parking lot and 136,000 sf of office and warehouse space on the ground and mezzanine floors within the Project Area. According to the City of New York Department of Finance records, the subject property consists of a single parcel of land that is designated as Block 250, Lot 1. The approximate location of the subject property is illustrated on **Figure 1** - Project Area Map.

NYCDOT, through its consultant AECOM, conducted a Phase I Environmental Site Assessment (ESA) of the proposed leasehold (AECOM, November 2020). Based upon the findings, the conduct of an indoor air quality assessment and sub-slab vapor investigation was proposed to evaluate what impacts, if any, historical underground storage tanks and other historical uses identified during the Phase I ESA may have on indoor air quality. The purpose of the indoor air quality assessment and sub-slab vapor investigation was to evaluate if there are any indoor/ambient air conditions that would impact the Proposed Development in the Project Area. Based on the findings of the initial indoor air quality sampling event conducted on February 1-2, 2022, supplemental investigation was recommended. This Supplemental Indoor Air Quality and Sub-Slab Investigation Letter Report summarizes the site investigation activities completed on May 31 and June 1, 2022.

1. Site Background/History

AECOM conducted a Phase I ESA of the subject property in November 2020. AECOM's historical research revealed that the subject property was occupied by manufacturing operations from 1924 through the late 1970s (International Motor Co. - 1924 to at least 1950 and Neptune Meter Co. - 1962 to sometime between 1977 and 1979). The use of hazardous materials, if any, associated with historical manufacturing operations is unknown. The potential historic use of the subject property as manufacturing is considered a recognized environmental concern (REC).

The subject property utilized up to six fuel oil underground storage tanks (UST) for heating purposes. Each of the referenced USTs were reported as closed-in-place or removed. Two 4,000-gallon diesel USTs were closed in 2002 and are associated with a New York State Department of Environmental Conservation

(NYSDEC) spill case that received a No Further Action (NFA) determination from NYSDEC in 2003. However, copies of the UST closure reports or NFA correspondence were not readily available for the other four tank systems. Based on the lack of information regarding location and regulatory status, AECOM considered these four historical USTs a REC and a vapor concern (VEC).

Eight metal floor plates that ranged in size from one foot (ft) by one ft to two ft by three ft were observed within the ground level of the proposed leasehold. Select metal plate covers were lifted and the pits were observed to contain cut and capped piping. The origin of the piping or historical use of the piping is unknown at this time but believed to be associated with the historical fuel system that serviced the on-site boilers.

Based upon the findings of the Phase I ESA, AECOM performed an assessment of indoor air and sub-slab vapor concentrations of the ground level leasehold area of the property on February 1 and February 2, 2022. Three indoor air samples (IA-1, IA-2, IA-3), one ambient air sample (IA-4), and four sub-slab vapor samples (SV-1, SV-2, SV-3 and SV-4) were collected and analyzed for volatile organic compounds (VOCs) following USEPA Method TO-15 SIM.

Limited VOCs were detected in the indoor air samples. With the exception of n-hexane, the detected VOC concentrations in indoor air fell below the corresponding New York State Department of Health (NYSDOH) Air Guideline Values (AGVs) or range of indoor published background concentrations in the NYSDOH Vapor Intrusion Guidance Document. The reported n-hexane detection in sample SV-1 was well below the human health risk-based screening levels for a commercial/industrial worker exposure scenario. It was noted that n-hexane was detected in the corresponding sub-slab vapor samples at similar or lower concentrations. The data for n-hexane in indoor air suggests an indoor source and does not suggest a complete vapor intrusion pathway. Based upon these findings a confirmatory round of indoor air sampling and analysis was recommended.

Chlorinated solvent-related compounds including carbon tetrachloride, chloroform, 1,1,1-trichloroethane, tetrachloroethene (PCE), trichloroethene (TCE), and methylene chloride were detected in one or more sub-slab vapor samples at concentrations above the applicable range of published background levels and its AGV. Based on the New York State Department of Health (NYSDOH) Matrix A and Matrix B guidance, the recommended action for the sub-slab vapor concentrations of carbon tetrachloride, methylene chloride, PCE, and 1,1,1-trichloroethane detected during the February 2022 sampling event was “no further action.”

Based on the NYSDOH Matrix A guidance, the recommended action for the sub-slab vapor concentrations of TCE was “mitigation.”

TCE and chloroform were detected at concentrations above the USEPA Vapor Intrusion Screening Levels (VISLs) in sample SV-2, SV-3, and SV-4. It is noted that these chlorinated VOCs were not detected in the corresponding indoor air samples. The data does not suggest a complete vapor intrusion pathway is present in the Project Area at that time. Based upon the reported sub-slab vapor concentrations, a confirmatory round of sub-slab sampling and analysis was recommended.

A confirmatory round of indoor air and sub-slab samples were collected on May 31 and June 1, 2022. The supplemental scope of work included the collection and analysis of four (4) indoor air samples (**IA-01-053122 through IA-04-053122**) plus one (1) background air sample (**AA-01-053122**) and four (4) sub-slab samples (**SV-01-060122 through SV-04-060122**) at the locations described below.

2. Project Mobilization

AECOM and its drilling subcontractor mobilized to the Project Area on May 31, 2022 and June 1, 2022, respectively. Prior to initiation of activities in the Project Area, the Health and Safety Plan (HASP) prepared in compliance with applicable sections of Occupational Safety and Health Administration (OSHA) Regulations 29 Code of Federal Regulations (CFR) Part 1910 and 29 CFR Part 1926 for use by all AECOM personnel, was updated and reviewed by AECOM.

At least three business days prior to the beginning of intrusive work, the drilling subcontractor, AARCO Environmental Services Corp. (AARCO), of Lindenhurst, New York, contacted New York's utility location service known as "New York 811" to request a field mark-out of underground utilities at the Project Area. "New York 811" provided a case number and a list of companies that were notified. Utilities indicated the location where their facilities enter the Project Area using color-coded, semi-permanent spray paint. Private utility location services were also completed during the February 1 and 2, 2022 sampling event and the supplemental borings were advanced within the previously cleared locations. The locations of the supplemental subsurface points are shown on **Figure 3**.

2.1 Structure Sampling Building Questionnaire

On February 1, 2022, AECOM updated the Soil Vapor Intrusion – Structure Sampling Building Questionnaire and Product Inventory completed in general accordance with the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in New York State, October 2006 (including subsequent updates)*. Field measurements were recorded using a ppb RAE 3000 photoionization detector (PID) with a 10.6 electron volt (eV) lamp to measure volatile organic compounds (VOCs). The completed Questionnaire and Product Inventory is included as **Appendix A**. The background readings throughout the building were 0 parts per billion (ppb). The building survey was used to refine the locations of the initial (February 2022) indoor air samples and the supplemental sampling event (May/June 2022) samples were collected in general proximity to the initial (February 2022) samples The locations of the supplemental indoor air sample locations are shown on **Figure 2**.

It was noted during the May 31, 2022 site inspection that several previously sealed floor penetrations had collapsed and openings in the concrete floor were observed. The floor penetrations appear to be associated with the historical floor drains and were generally oriented in a north – south line in line with the western most garage bay door.

2.2 Applicable Regulatory Standards - Indoor Air and Soil Vapor Guidelines

No standards currently exist for soil vapor samples in New York State. The analytical results for the indoor air and soil vapor samples were compared to the Air Guideline Values (AGVs) presented in the NYSDOH Vapor Intrusion Guidance Document, NYSDOH's Tetrachloroethene (Perc) in Indoor and Outdoor Air September 2013 Fact Sheet ("NYSDOH Perc Fact Sheet"), and NYSDOH's Trichloroethene (TCE) in Indoor and Outdoor Air August 2015 Fact Sheet ("NYSDOH TCE Fact Sheet"). Additionally, the sample results were compared to background levels of VOCs in indoor air presented in Appendix C of the Vapor Intrusion Guidance Document, including Upper Fence Limit indoor air values from "Table C-1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes"; 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, Summa® canister method"; and the 95th Percentile Indoor Air Values from "Table C-5, Health Effects

Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air" (collectively referred to as the "range of published background concentrations").

The results of the analyses of the indoor air and soil vapor samples were also compared to Matrices A, B, and C of the May 2017 Vapor Intrusion Guidance Document Vapor Intrusion Decision Matrices updates for use in the evaluation of eight chlorinated VOCs (TCE, cis-1,2-dichloroethene, 1,1,-dichloroethene, carbon tetrachloride, tetrachloroethene (PCE), 1,1,1-trichloroethane, methylene chloride, and vinyl chloride) in paired sub-slab vapor and indoor air samples. Based upon the results, the matrices provide recommendations for "no further action," "additional monitoring," or "mitigation." Site sub-slab vapor results were compared to the minimum sub-slab vapor concentrations provided in the NYSDOH matrices. Use of the minimum concentrations represents a conservative evaluation of the potential vapor intrusion pathway.

In addition, ambient air sample results were compared to NYSDEC 2021 Annual VOC Data from Queens College, 65-30 Kissena Blvd., Parking Lot #6 Site, Queens County.

The results were also compared to the United State Environmental Protection Agency (USEPA) Vapor Intrusion Screening Levels (VISLs) for a commercial/industrial worker exposure scenario assuming workers may be present in the building for eight hours per day for 250 days per year (i.e., five days per week for 50 weeks per year). This exposure scenario is also protective of part time workers and visitors. The VISLs are risk-based, derived based on a target cancer risk of one x 10-6 (i.e., one in one million) and a target noncancer hazard quotient (HQ) of 0.1 (USEPA, 2021). These target risk/HQ levels are recommended by USEPA for use in performing conservative (i.e., health-protective) screening-level risk assessments when assessing potential exposure to multiple analytes. The sub-slab/soil gas screening levels are calculated by applying USEPA's generic sub-slab vapor to indoor air attenuation factor of 0.03 to risk-based indoor screening levels. This generic attenuation factor is recommended "for use in estimating potential upper-bound concentrations in indoor air that may arise from vapor intrusion" (USEPA, 2015). The presence of a sub-slab vapor or soil gas concentration above the associated screening level does not necessarily indicate that a complete vapor intrusion pathway or health concern exists, but only that further evaluation/consideration is necessary before the potential can be ruled out.

3. IAQ Survey

3.1 Supplemental Indoor Air Sampling

The supplemental IAQ sampling was conducted in general accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (NYSDOH Vapor Intrusion Guidance Document). The supplemental IAQ Survey field activities were performed on May 31, 2022, and included the collection of four (4) indoor air samples and one (1) ambient air sample for laboratory analysis. Indoor air samples were identified as IA-01-053122 through IA-04-053122 and the ambient sample was identified as AA-01-053122. The samples were collected from the following locations, as shown on **Figure 2**:

- IA-01-053122: collected west of the boiler room and west of the metal covers of unknown origin;
- IA-02-053122: collected northwest of the boiler room and northwest of the metal covers of unknown origin;
- IA-03-053122: collected north of the boiler room and northeast of the metal covers of unknown origin;
- IA-04-053122: collected on the north interior side of the building in proximity to the loading dock area where two 4,000-gallon heating oil underground storage tanks were reportedly closed in place in 2002; and
- AA-01-053122: collected at exterior loading dock on north side of building.

These supplemental sample locations were at similar locations to the previous February 2022 indoor air sample locations (IA-1 IA-2, IA-3 and IA-4) (refer to **Figure 2**).

During the inspection, a ppb-range photoionization detector (PID) was utilized to screen indoor air sample locations and adjacent spaces for the presence of organic vapors. No PID readings above background were detected in the areas evaluated.

Indoor (IA-01-053122, IA-02-053122, IA-03-053122, IA-04-053122) and ambient air (AA-01-053122) samples were collected utilizing individually certified-clean six-liter Summa® canisters. The samples were collected over an eight-hour time period from a height of approximately three to four feet above the floor to simulate the typical breathing zone. Initial and final canister vacuum readings (inches of mercury) and sampling times were recorded on the laboratory chain-of-custody forms. During sampling, there were no activities being performed in the Project Area that would interfere with the IAQ sampling.

The IAQ samples were analyzed for VOCs utilizing USEPA Method TO-15 Select Ion Monitoring (SIM) method in order to meet New York State Indoor Air screening levels on a standard turnaround basis (i.e., 7-14 days). The Summa® canisters were properly labeled and transported via courier to Eurofins Test America laboratory of Burlington, Vermont, for analysis. Eurofins Test America is a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory for air quality sample analyses. A summary of the analytical results is provided in **Table 1**, and a copy of the analytical laboratory results is attached in **Appendix B**. Photographs of the sampling locations are provided in **Appendix C**.

3.2 IAQ Findings

A review analytical results for the indoor and ambient air samples indicates that twenty-four (24) of the seventy-two (72) VOCs collected on May 31, 2022 and analyzed utilizing USEPA Method TO-15 were detected in one or more indoor air samples. Detected VOCs include: 1,2,4-trimethylbenzene, 2,2,4-

trimethylpentane, acetone, benzene, carbon disulfide, chloromethane, cumene, cyclohexane, ethylbenzene, Freon 22, isopropyl alcohol, m,p-xylene, methyl ethyl ketone (MEK), methyl isobutyl ketone (MIBK), methylene chloride, n-butane, n-heptane, n-hexane, tetrachloroethene (PCE), toluene, trichloroethene (TCE), trichlorofluoromethane, xylene (total), and o-xylene.

Seven (7) of the VOCs including: acetone, carbon disulfide, MIBK, methylene chloride, n-hexane, PCE, and TCE were detected in one or more indoor and/or ambient air samples at concentrations above the applicable range of published background levels and/or its AGV. A summary of the analytical results for VOCs in indoor and ambient air samples are presented in **Table 1**. The laboratory analytical report is presented in **Appendix B**. Photographs of the sampling locations are provided in **Appendix C**. **Table 3** provides a summary of both the February 2022 and May 2022 indoor air sample results.

3.3 IAQ Conclusions and Recommendations

Seven (7) of the VOC's including: acetone, carbon disulfide, methyl isobutyl ketone, methylene chloride, n-hexane, PCE, and TCE were detected in one or more indoor and/or ambient air samples at a concentration above the corresponding NYSDOH AGVs or range of indoor published background concentrations.

The detected concentrations of carbon disulfide and PCE in the ambient (outdoor) sample were above NYSDOH AGVs or range of indoor published background concentrations. It is noted that the VOCs carbon disulfide and PCE were not detected in the indoor air samples at concentrations above NYSDOH AGVs or range of indoor published background concentrations.

During the February 2022 indoor air sampling event n-hexane was detected above NYSDOH AGVs or range of indoor published background concentrations. n-Hexane was also detected during the May 2022 sampling event at similar concentrations. N-hexane was detected in the sub-slab samples during both the February and May 2022 sampling events at concentrations below NYSDOH AGVs or range of indoor published background concentrations. The supplemental data for n-hexane in indoor air confirms an indoor source and does not suggest a vapor intrusion pathway.

4. Sub-Slab Soil Vapor Survey

A supplemental sub-slab soil vapor survey was conducted on June 1, 2022 to further evaluate the potential for vapor intrusion in the Project Area. **Figure 3** shows the locations of the soil vapor survey points advanced in the Project Area. A total of four soil vapor samples were collected for laboratory analysis. Photographs of the sampling locations are provided in **Appendix C**.

4.1 Supplemental Sub-Slab Soil Vapor Sampling

The supplemental sub-slab soil vapor sampling program was completed on June 1, 2022, in conformance with the applicable procedures described in ASTM E 2600-10 "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" and the October 2006 NYSDOH Soil Vapor Intrusion Guidance Document protocols. AARCO was retained as a subcontractor by AECOM for drilling services. The sub-slab soil vapor samples were collected to provide special coverage in the Project Area to investigate potential impacts from Project Area RECs/VECs as follows:

- SV-01-060122: collected west of the boiler room and west of the metal covers of unknown origin;
- SV-02-060122: collected northwest of the boiler room and northwest of the metal covers of unknown origin;
- SV-03-060122: collected north of the boiler room and northeast of the metal covers of unknown origin; and
- SV-04-060122: collected on the north interior side of the building in proximity to the loading dock area where two 4,000-gallon heating oil underground storage tanks were reportedly closed in place in 2002.

These sample locations were at similar locations to the previous February 2022 sub-slab sample locations (SV-1, SV-2, SV-3, and SV-4) (refer to **Figure 3**).

The soil vapor points were installed using a manual slide hammer driven system. A concrete core was utilized to drill a one-inch diameter hole through the six-inch concrete slab. Soil vapor points were installed by advancing a 0.75-inch diameter hollow probe rod fitted with an expendable six-inch diameter stainless steel screened drive point to a depth of approximately 0.5 ft below the ground surface (bgs). Dedicated Teflon tubing with threaded fittings was then connected to the probe. The hollow probe rod was then removed, and an airtight seal was created at the surface using hydrated bentonite.

The adequacy of each seal was tested using a shroud to seal the borehole from the ambient air. Helium tracer gas was then pumped into the shroud. The above grade end of the tubing, which is the sample collection point, was then attached to a helium gas detector. The adequacy of the seal was verified by direct helium readings of less than 10 percent. Each of the temporary soil vapor probes were then purged using a photoionization detector (PID) to evacuate three volumes of soil vapor. Maximum PID readings detected in each soil vapor point are presented in the following table.

Soil Vapor Sample location	PID Reading (ppm)
SV-01 060122	0.0
SV-020 60122	0.0
SV-03 060122	0.0
SV-04 060122	0.0

Note: ppm - parts per million

After purging, each probe was connected by means of Teflon tubing to a laboratory-supplied individually certified-clean, six-liter SUMMA® canister equipped with a flow regulator. Soil vapor samples were collected in SUMMA® canisters for an approximately one-hour sampling period. Immediately after opening each SUMMA® canister, the initial vacuum reading (inches of mercury) was noted. After one hour, final vacuum readings (inches of mercury) were noted and the SUMMA® canisters were closed.

During the sampling, there were no activities observed in the immediate vicinity of the sampling locations in the Project Area that would be expected to interfere with the soil vapor sampling. Multiple idling DOT vehicles were observed inside the warehouse from 8:00-8:30 a.m. at the north end of the building (47th Street). Te vehicles are staged approximately 200 feet north of the sampling area and are separated by a wall; however, the garage bay doors that separate the areas were open.

Each soil vapor sample was analyzed by USEPA Method TO-15 for VOCs to evaluate soil vapor conditions in the Project Area.

After collection, the SUMMA® canisters were properly labeled and transported to Eurofin/TestAmerica - Burlington Laboratory in Burlington, Vermont, utilizing standard chain-of-custody procedures. Eurofin/TestAmerica - Burlington is a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory for air quality sample analyses.

Upon completion, each soil vapor point was backfilled to near grade surface with the bentonite and then the ground surface was restored to match the existing grade (i.e., concrete patch).

4.2 Soil Vapor Survey Findings

A review of the soil vapor sample analytical results indicates that fthirty-eight (38) of the seventy-two (72) VOCs analyzed utilizing USEPA Method TO-15 were detected in one or more of the samples; of which twenty-eight (28) of the VOCs were detected above published indoor air background concentrations. Detected VOC's include: 1,1,1-trichloroethane (111-TCA), 1,1-dichloroethane (11-DCA), 1,1-dichloroethene (11-DCE), 1,2,4-trimethylbenzene, total 1,2-dichloroethene (12-DCE), 1,3,5-trimethylbenzene, 1,3-butadiene, 2,2,4-trimethylpentane, 4-ethyltoluene, 4-isopropyltoluene, acetone, benzene, bromodichloromethane, carbon disulfide, chloroform, cis-12-DCE-, cumene, cyclohexane, ethylbenzene, isopropyl alcohol, m,p-xylene, methyl butyl ketone, MEK, MIBK, methylene chloride, n-butane, n-butylbenzene, n-heptane, n-hexane, n-propylbenzene, sec-butylbenzene, styrene, tert-butylbenzene, PCE, toluene, TCE, xylene (total), and o-xylene. A summary of the analytical results for VOCs in sub-slab air samples are presented in **Table 2**. The laboratory analytical report is presented in **Appendix B**. **Table 4** provides a summary of both the February 2022 and May 2022 indoor air sample results.

It is noted that the chlorinated solvent-related compounds cis-12-DCE, 11-DCE, TCE, PCE, 111-TCA, and methylene chloride were detected in one or more soil vapor samples at concentrations above the applicable range of published background levels and/or its AGV. These constituents were also compared to Matrix A and B of the NYSDOH Soil Vapor Intrusion Guidance Document May 2017 Matrices Updates.

The soil vapor sampling results for carbon tetrachloride, cis-12-DCE, 1,1-DCE, and TCE were compared to Matrix A of the NYSDOH Soil Vapor Intrusion Guidance Document May 2017 Matrices Updates. Carbon Tetrachloride was not detected in soil vapor samples SV-01-060122 through SV-04-060122. Cis-12-DCE4 was detected in two soil vapor samples at concentrations ranging from 14 µg/m^3 to 75 µg/m^3. 1,1-DCE was detected in one soil vapor sample, SV-03-060122, at 3.2 µg/m^3. TCE was detected in three soil vapor samples at concentrations ranging from 970 µg/m^3 to 7,400 µg/m^3. Based on Matrix A, for the

corresponding indoor air concentration, the recommended action for the sub-slab vapor concentrations of carbon tetrachloride and 11-DCE is "no further action"; however, "mitigation" is the recommended action for the concentration of cis-1,2-dichloroethene and TCE present.

The soil vapor sampling results for PCE, 111-TCA, and methylene chloride were compared to Matrix B of the NYSDOH Soil Vapor Intrusion Guidance Document May 2017 Matrices Updates. PCE was detected in all four soil vapor samples at concentrations ranging from 74 µg/m^3 to 350 µg/m^3. 111-TCA was detected in three soil vapor samples at concentrations ranging from 93 µg/m^3 to 1,600 µg/m^3. Methylene chloride was detected in two soil vapor samples at concentrations ranging from 81 µg/m^3 to 190 µg/m^3. Based on Matrix B, for the corresponding indoor air concentration, the recommended action for the sub-slab vapor concentrations of PCE is "no further action"; however, "mitigation" is the recommended action for the concentrations of 111-TCA and methylene chloride present.

Since vinyl chloride was not detected in soil vapor samples SV-01-060122 through SV-04-060122, a comparison of results to Matrix C of the NYSDOH Soil Vapor Intrusion Guidance Document May 2017 Matrices Updates was not conducted.

Other VOCs including 11-DCA, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-butadiene, 4-ethyltoluene, acetone, benzene, carbon disulfide, chloroform, cumene, ethylbenzene, m,p-xylene, MEK, MIBK, n-butylbenzene, n-heptane, n-propylbenzene, sec-butylbenzene, styrene, tert-butylbenzene, toluene, and o-xylene were detected in one or more sub-slab vapor samples at concentrations above the applicable range of published background levels and/or its AGV.

4.3 Sub-Slab Sampling Conclusions and Recommendations

Four (4) sub-slab vapor samples were collected and analyzed for VOCs following EPA Method TO-15 and indicate the following:

- A review of the soil vapor sample analytical results indicates that thirty eight (38) of the seventy-two (72) VOCs analyzed utilizing USEPA Method TO-15 were detected in one or more of the samples; of which twenty eight (28) of the VOCs were detected during the June 1, 2022 sampling event above published indoor air background concentrations. Of note are chlorinated solvent-related compounds cis-12-DCE, 11-DCE, TCE, PCE, 111-TCA, and methylene chloride which were detected in one or more soil vapor samples at concentrations above the applicable range of published background levels and its AGV.

- The soil vapor sampling results for carbon tetrachloride, cis-12-DCE, 11-DCE, and TCE were compared to Matrix A of the NYSDOH Soil Vapor Intrusion Guidance Document May 2017 Matrices Updates. Carbon Tetrachloride was not detected in soil vapor samples SV-01-060122 through SV-04-060122. Cis-12-DCE was detected in samples two soil vapor samples at concentrations ranging from 14 µg/m^3 to 75 µg/m^3. 11-DCE was detected in one soil vapor sample, SV-03-060122, at 3.2 µg/m^3. TCE was detected in three soil vapor samples at concentrations ranging from 970 µg/m^3 to 7,400 µg/m^3. Based on Matrix A, for the corresponding indoor air concentration, the recommended action for the sub-slab vapor concentrations of carbon tetrachloride and 11-DCE is "no further action"; however, "mitigation" is the recommended action for the concentrations of cis-12-DCE- and TCE present.

- The soil vapor sampling results for PCE, 111-TCA, and methylene chloride were compared to Matrix B of the NYSDOH Soil Vapor Intrusion Guidance Document May 2017 Matrices Updates. PCE was detected in all four soil vapor samples at concentrations ranging from 74 µg/m^3 to 350 µg/m^3. 111-TCA

was detected in three soil vapor samples at concentrations ranging from 93 µg/m^3 to 1,600 µg/m^3. Methylene chloride was detected in two soil vapor samples at concentrations ranging from 81 µg/m^3 to 190 µg/m^3. Based on Matrix B, for the corresponding indoor air concentration, the recommended action for the sub-slab vapor concentrations of PCE is "no further action"; however, "mitigation" is the recommended action for the concentrations of 111-TCA and methylene chloride present.

- Other VOCs including 11-DCA, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-butadiene, 4-ethyltoluene, acetone, benzene, carbon disulfide, chloroform, cumene, ethylbenzene, m,p-xylene, MEK, MIBK, n-butylbenzene, n-heptane, n-propylbenzene, sec-butylbenzene, styrene, tert-butylbenzene, toluene, and o-xylene were detected in one or more sub-slab vapor samples at concentrations above the applicable range of published background levels and/or its AGV.

5. Summary of Conclusions and Recommendations

AECOM performed an assessment of indoor air and sub-slab vapor concentrations of the ground level leasehold area of the property identified as 47-25 34th Street in Long Island City, New York. four indoor air samples, one ambient air sample, and four sub-slab vapor samples were collected and analyzed for VOCs following USEPA Method TO-15 SIM.

Limited VOCs were detected in the indoor air samples. With the exception of acetone, MIBK, methylene chloride, n-hexane, and TCE, the detected VOC concentrations in indoor air fell below the corresponding NYSDOH AGVs or range of indoor published background concentrations.

The detected concentrations of carbon disulfide and PCE in the outdoor sample were above NYSDOH AGVs or range of indoor published background concentrations.

During the February 2022 indoor air sampling event n-hexane was detected above NYSDOH AGVs or range of indoor published background concentrations. n-Hexane was also detected during the May 2022 sampling event at similar concentrations. N-hexane was detected in the sub-slab samples during both the February and May 2022 sampling events at concentrations below NYSDOH AGVs or range of indoor published background concentrations. The supplemental data for n-hexane in indoor air confirms an indoor source and does not suggest a vapor intrusion pathway.

Chlorinated solvent-related compounds including 11-DCA, 11-DCE, cis-12-DCE, 111-TCA, chloroform, methylene chloride, PCE, and TCE were detected in one or more soil vapor samples at concentrations above the applicable range of published background levels and its AGV. Based on Matrix A and Matrix B, the recommended action for the sub-slab vapor concentrations of 11-DCE and PCE is "no further action."

When the NYSDOH Vapor Guidance decision Matrix A and Matrix B are applied to the cis-12-DCE, 111-TCA, methylene chloride and TCE data, the recommended action for the sub-slab vapor concentrations is "mitigation."

- Based on the comparison with Matrix A, cis-12-DCE, was detected in May 2022 at an elevated concentration at SV-02-060122 and a moderate concentration at SV03-060122. Cis-12-DCE was detected in the February 2022 sub-slab samples at these two locations at similar or lower concentrations. However, cis-12-DCE was not detected in the initial or supplemental indoor air samples collected to date suggesting a direct vapor intrusion pathway is not present in the Project Area at this time.

- Based on the comparison with Matrix B,111-TCA was detected at an elevated concentration at SV-02-060122 and moderate concentration at SV04-060122. During the original sampling event 111-

TCA was detected at similar or lower concentrations in the sub-slab samples at these locations. However, 111-TCA was not detected in the initial or supplemental indoor air samples at these locations suggesting a direct vapor intrusion pathway is not present in the Project Area at this time.

- Based on the comparison with Matrix B, methylene chloride had elevated indoor air concentrations at IA-02-053122, IA-03-053122, and IA-04-053122, and a moderate sub-slab concentration at SV-04-060122. The results from the supplemental sampling are not consistent with the original sampling event which had lower sub-slab concentrations and indoor air concentrations below published background levels and its AGV or were reported as none detected. Methylene chloride was detected in the indoor are samples at concentrations above the applicable range of published background levels and its AGV suggesting a direct vapor intrusion pathway is present in the Project Area.

- TCE was only detected in one indoor air sample (IA-01-053122) at a concentration of 2.8 µg/m^3. TCE was not detected in the previous indoor air sample collected at this location. Based on the comparison with Matrix A, the TCE concentrations at three sub-slab locations: SV-02-060122, SV-03-060122 and SV-04-060122 were elevated and consistent with the previous round of sampling. TCE was not detected in the paired indoor air samples, however, suggesting a direct vapor intrusion pathway is not present in the Project Area at this time. However, based upon the confirmation of elevated TCE concentrations in the sub-slab samples during both the initial and supplemental sampling events, mitigation is recommended to prevent future vapor intrusion.

Other (non-chlorinated) VOCs were detected in the sub-slab vapor samples at concentrations above the applicable range of published background levels and/or its AGV. Concentrations of acetone, MIBK, and n-hexane were detected in the indoor air samples collected above the minimum background screening levels but well below the USEPA VISLs for commercial/industrial settings.

Based upon the NYSDOH Vapor Intrusion Guidance Document, mitigation is recommended to prevent future vapor intrusion of the VOC TCE as well as other VOCs detected during both the initial and supplemental sampling events. The most common mitigation methods are sealing preferential pathways (i.e., breaks and openings in the slab) in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring..

6. Limitations

AECOM's services were provided in accordance with generally accepted environmental science, industrial hygiene, and engineering practices at the time the work was performed. No expressed or intended representation of warranty is included or intended in our reports, except that our services were performed with the customary thoroughness and competence of our profession.

This report is based on data, Project Area conditions and other information that is applicable as of the date of this report, and the conclusions and recommendations herein are therefore applicable only to that timeframe. The scope of services performed by AECOM may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or of the findings, conclusions or recommendations herein is at the sole risk of the user.

-oOo-

If you have any questions or require additional information, please do not hesitate to contact Deborah Howes at 503-544-7171 or Christine Wagner at 908-419-0827.

Sincerely,
AECOM USA

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Christine Wagner
Senior Environmental Scientist

Reviewed By:
Deborah Howes, AICP
Client Community Manager

Enclosures:

TABLES:

Table 1:	Summary of Analytical Results – May 31, 2022 Indoor and Ambient Air Samples – Hits Only
Table 2:	Summary of Analytical Results – June 1, 2022 Sub-Slab Air Samples – Hits Only
Table 3:	Summary of Analytical Results – February 2022 and May 2022 Indoor and Ambient Air Samples – Hits Only
Table 4:	Summary of Analytical Results – February 2022 and June 2022 Sub-Slab Air Samples – Hits Only

FIGURES:

Figure 1:	Project Area Map
Figure 2:	Sample Location and Results of Analysis of Indoor and Ambient Air Samples for Volatile Organic Compounds
Figure 3:	Summary of Results of Analysis of Sub-Slab Samples for Volatile Organic Compounds

APPENDIX:

Appendix A:	NYSDOH Indoor Air Quality Questionnaire
Appendix B:	Laboratory Analytical Report
Appendix C:	Sampling Photographs

Tables

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
MAY 31, 2022 INDOOR AIR SAMPLES - HITS ONLY
47-25 34TH STREET, LING ISLAND CITY, NEW YORK 11101

VOLATILE ORGANIC COMPOUND (ug/m^3)	NYSDOH Fuel Oil 2003 Upper Fence Limit[1]	USEPA BASE Data 90th Percentile Value[2]	HEI RIOPA 2005 95th Percentile Value[3]	NYSDOH AGV[4]	USEPA VIRLs Commercial/ Industrial	Queens County Monitor Values 95th Percentile	Client ID	IA-01-053122		IA-02-053122		IA-03-053122		IA-04-053122		AA-01-053122	
							Lab Sample ID	200-63676-1		200-63676-2		200-63676-3		200-63676-4		200-63676-5	
							Sampling Date	5/31/2022		5/31/2022		5/31/2022		5/31/2022		5/31/2022	
							Matrix	Indoor Air		Indoor Air		Indoor Air		Indoor Air		Ambient Air	
							Dilution Factor	1		1		1		1		1	
	Indoor	Indoor	Indoor				Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
								Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
AIR BY TO-15							AIR BY TO-15										
1,2,4-Trimethylbenzene	9.8	9.5	-	-	26.3	-	1,2,4-Trimethylbenzene	0.98	U	2.7		0.98	U	0.98	U	0.98	U
2,2,4-Trimethylpentane	-	-	-	-	-	-	2,2,4-Trimethylpentane	1.7		2.4		1.7		0.93	U	0.93	U
Acetone	115	98.9	45.8	-	-	-	Acetone	49		36		33		20		16	
Benzene	13	9.4	10	-	0.331	1.22	Benzene	*3.6*		*3.7*		*2.6*		0.66		*1.3*	
Carbon disulfide	-	4.2	-	-	307	-	Carbon disulfide	4.2		1.6	U	1.6	U	1.8		8.3	
Chloromethane	4.2	3.7	-	-	39.4	-	Chloromethane	1.3		1.3		1.1		1.2		1.2	
Cumene	-	-	-	-	175	-	Cumene	0.98	U	0.98		0.98	U	0.98	U	0.98	U
Cyclohexane	6.3	-	-	-	2630	-	Cyclohexane	1.2		1.5		2.1		1.5		0.69	U
Ethylbenzene	6.4	5.7	7.62	-	4.91	-	Ethylbenzene	0.87	U	1.7		1.1		0.87	U	0.87	U
Freon 22	-	-	-	-	21900	-	Freon 22	1.8	U	1.8	U	1.8		1.8	U	1.8	U
Isopropyl alcohol	-	-	-	-	87.6	-	Isopropyl alcohol	42		43		38		34		12	U
m,p-Xylene	11	22.2	22.2	-	43.8	-	m,p-Xylene	2.2	U	6.4		3.9		2.2	U	2.2	U
Methyl Ethyl Ketone	16	-	-	-	2190	-	Methyl Ethyl Ketone	5.7		4		4.3		1.9		1.8	
Methyl isobutyl ketone	1.9		-	-	1310	-	Methyl isobutyl ketone	2.2		3.3		3.3		2	U	2	U
Methylene Chloride	16	10	7.5	60	263	-	Methylene Chloride	3.1		11		25		24		1.7	U
n-Butane	-	-	-	-	-	-	n-Butane	17		16		11		3.9		3.9	
n-Heptane	18	-	-	-	175	-	n-Heptane	2.4		2.1		1.8		0.82	U	0.82	U
n-Hexane	14	10.2	-	-	307	-	n-Hexane	6.3		16		33		30		1.8	U
Tetrachloroethene	2.5	15.9	-	30	0.876	-	Tetrachloroethene	1.4	U	1.4	U	1.4	U	1.4	U	*2.7*	
Toluene	57	43	39.8	-	2190	-	Toluene	9.7		15		11		2.8		3.1	
Trichloroethene	0.46	4.2	-	2	0.876	-	Trichloroethene	*2.8*		1.1	U	1.1	U	1.1	U	1.1	U
Trichlorofluoromethane	12	18.1	-	-	-	-	Trichlorofluoromethane	1.2		1.3		1.5		1.5		1.2	
Xylene (total)	-	-	-	-	43.8	-	Xylene (total)	3	U	8.9		5.2		3	U	3	U
Xylene, o-	7.1	7.9	7.24	-	43.8	-	Xylene, o-	0.87	U	2.3		1.2		0.87	U	0.87	U

Notes:
- : No Criterion/Guideline Value
U : Indicates the analyte was analyzed for but not detected
D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
< : Less Than
ug/m3: micrograms per cubic meter
[1] Upper fence indoor air values from Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[2] 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006).
[3] 95th Percentile Indoor Air Values from "Table C-5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[4] NYSDOH Air Guideline Values (AGVs) presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. ("NYSDOH Vapor Intrusion Guidance Document")
BASE: Building Assessment and Survey Evaluation
US EPA: US Environmental Protection Agency
HEI RIOPA: Health Effects Institute - Relationship of Indoor, Outdoor, and Personal Air
VISL: USEPA Vapor Intrusion Screening Levels for a commercial/industrial worker exposure based on a target cancer risk of 1E-06 and a target non-cancer hazard of 0.1 (USEPA, 2022)
Sample results shown in SHADE font exceed the range of published background concentrations in indoor air.
Sample results shown on *BOLD* font exceeds the USEPA VISLs for commercial/industrial worker exposure scenario.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
JUNE 1, 2022 SUBSLAB AIR SAMPLES - HITS ONLY
47-25 34TH STREET, LONG ISLAND CITY, NEW YORK 11101

VOLATILE ORGANIC COMPOUND (ug/m^3)	NYSDOH Fuel Oil 2003 Upper Fence Limit[1]	USEPA BASE Data 90th Percentile Value[2]	HEI RIOPA 2005 95th Percentile Value[3]	NYSDOH AGV[4]	USEPA VIRLs Commercial/ Industrial		Client ID	SV-01-060122		SV-02-060122		SV-03-060122		SV-04-060122	
							Lab Sample ID	200-63678-1		200-63678-2		200-63678-3		200-63678-4	
							Sampling Date	6/1/2022		6/1/2022		6/1/2022		6/1/2022	
							Matrix	Air		Air		Air		Air	
							Dilution Factor	5/10		8/40		1/8		9/45.2	
	Indoor	Indoor	Indoor				Unit	ug/m3		ug/m3		ug/m3		ug/m3	
								Result	Q	Result	Q	Result	Q	Result	Q
AIR BY TO-15							AIR BY TO-15								
1,1,1-Trichloroethane	2.5	20.6	-	-	2190		1,1,1-Trichloroethane	5.5	U	1600		93		150	
1,1-Dichloroethane	0.38	<0.7	-	-	7.67		1,1-Dichloroethane	4	U	*130*		*6.5*		*50*	
1,1-Dichloroethene	0.4	<1.4	-	-	87.6		1,1-Dichloroethene	4	U	6.3	U	3.2		7.1	U
1,2,4-Trimethylbenzene	9.8	9.5	-	-	26.3		1,2,4-Trimethylbenzene	*290*		18		19		16	
1,2-Dichloroethene, Total	-	-	-	-	-		1,2-Dichloroethene, Total	7.9	U	75		14		14	U
1,3,5-Trimethylbenzene	3.9	3.7	-	-	26.3		1,3,5-Trimethylbenzene	*190*		7.9	U	4.9		13	
1,3-Butadiene	-	<3.0	-	-	0.409		1,3-Butadiene	*5.4*		3.5	U	*0.89*		4	U
2,2,4-Trimethylpentane	-	-	-	-	-		2,2,4-Trimethylpentane	4.7	U	7.5	U	1.6		8.4	U
4-Ethyltoluene	-	3.6	-	-	-		4-Ethyltoluene	75		7.9	U	4.9		8.8	U
4-Isopropyltoluene	-	-	-	-	-		4-Isopropyltoluene	79		8.8	U	2.4		9.9	U
Acetone	115	98.9	45.8	-	-		Acetone	630		3700		53		600	
Benzene	13	9.4	10	-	1.57		Benzene	*6*		5.1	U	*3.6*		*20*	
Bromodichloromethane	-	-	-	-	0.331		Bromodichloromethane	6.7	U	11	U	*3.1*		12	U
Carbon disulfide	-	4.2	-	-	307		Carbon disulfide	7.8	U	12	U	2.5		21	
Chloroform	1.2	1.1	6.34	-	0.533		Chloroform	4.9	U	*19*		*50*		*46*	
cis-1,2-Dichloroethene	0.41	<1.9	-	-	-		cis-1,2-Dichloroethene	4	U	75		14		7.1	U
Cumene	-	-	-	-	175		Cumene	44		7.9	U	0.98	U	8.8	U
Cyclohexane	6.3	-	-	-	2630		Cyclohexane	3.4	U	5.5	U	1.0		6.2	U
Ethylbenzene	6.4	5.7	7.62	-	4.91		Ethylbenzene	*17*		*13*		*12*		*12*	
Isopropyl alcohol	-	-	-	-	87.6		Isopropyl alcohol	61	U	98	U	12		110	U
m,p-Xylene	11	22.2	22.2	-	43.8		m,p-Xylene	*88*		*55*		*59*		*58*	
Methyl Butyl Ketone (2-Hexanone)	-	-	-	-	13.1		Methyl Butyl Ketone (2-Hexanone)	10	U	16	U	2.0	U	18	U
Methyl Ethyl Ketone	16	-	-	-	2190		Methyl Ethyl Ketone	24		35		1.5	U	27	
Methyl isobutyl ketone	1.9	6.0	-	-	1310		Methyl isobutyl ketone	10	U	16	U	2	U	21	
Methylene Chloride	16	10	7.5	60	263		Methylene Chloride	8.7	U	81		1.7	U	190	
n-Butane	-	-	-	-	-		n-Butane	7.4		16		7.6		16	
n-Butylbenzene	1.1	-	-	-	-		n-Butylbenzene	24		8.8	U	1.1	U	9.9	U
n-Heptane	18	-	-	-	175		n-Heptane	130		6.6	U	6.5		17	
n-Hexane	14	10.2	-	-	307		n-Hexane	8.8	U	14	U	5.9		16	U
n-Propylbenzene	1.5	-	-	-	438		n-Propylbenzene	81		7.9	U	3.2		8.8	U
sec-Butylbenzene	1.2	-	-	-	-		sec-Butylbenzene	110		8.8	U	1.1	U	9.9	U
Styrene	1.4	1.9	5.13	-	438		Styrene	4.3	U	6.8	U	4.3		7.7	U
tert-Butylbenzene	1.3	-	-	-	-		tert-Butylbenzene	44		8.8	U	1.1	U	9.9	U
Tetrachloroethene	2.5	15.9	-	30	0.876		Tetrachloroethene	*74*		*350*		*220*		*150*	
Toluene	57	43	39.8	-	2190		Toluene	22		32		21		180	
Trichloroethene	0.46	4.2	-	2	0.876		Trichloroethene	5.4	U	*1600*		*970*		*7400*	
Xylene (total)	-	-	-	-	43.8		Xylene (total)	*120*		*73*		*78*		*80*	
Xylene, o-	7.1	7.9	7.24	-	43.8		Xylene, o-	36		17		17		24	

Notes:
- : No Criterion/Guideline Value
U : Indicates the analyte was analyzed for but not detected
D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
< : Less Than
ug/m3: micrograms per cubic meter
[1] Upper fence indoor air values from Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[2] 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[3] 95th Percentile Indoor Air Values from "Table C-5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[4] NYSDOH Air Guideline Values (AGVs) presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. ("NYSDOH Vapor Intrusion Guidance Document")
BASE: Building Assessment and Survey Evaluation
US EPA: US Environmental Protection Agency
HEI RIOPA: Health Effects Institute - Relationship of Indoor, Outdoor, and Personal Air
VISL: USEPA Vapor Intrusion Screening Levels for a commercial/industrial worker exposure based on a target cancer risk of 1E-06 and a target non-cancer hazard of 0.1 (USEPA, 2022)
Sample results shown on *BOLD* font exceeds the USEPA VISLs for commercial/industrial worker exposure scenario.
Sample results shown in SHADE font exceed the range of published background concentrations in indoor air.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
FEBRUARY 1, 2022 AND MAY 31, 2022 INDOOR AIR SAMPLES - HITS ONLY
47-25 34TH STREET, LING ISLAND CITY, NEW YORK 11101

VOLATILE ORGANIC COMPOUND (ug/m^3)	NYSDOH Fuel Oil 2003 Upper Fence Limit[1] Indoor	USEPA BASE Data 90th Percentile Value[2] Indoor	HEI RIOPA 2005 95th Percentile Value[3] Indoor	NYSDOH AGV[4]	USEPA VIRLs Commercial/ Industrial	Queens County Monitor Values 95th Percentile	Client ID	IA-1		IA-01-053122		IA-2		IA-02-053122		IA-3		IA-03-053122		IA-04-053122		IA-4		AA-01-053122	
							Lab Sample ID	200-61976-1		200-63676-1		200-61976-2		200-63676-2		200-61976-3		200-63676-3		200-63676-4		200-61976-4		200-63676-5	
							Sampling Date	2/1/2022		5/31/2022		2/1/2022		5/31/2022		2/1/2022		5/31/2022		5/31/2022		2/1/2022		5/31/2022	
							Matrix	Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Ambient Air		Ambient Air	
							Dilution Factor	1		1		1		1		1		1		1		1		1	
							Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
								Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
AIR BY TO-15							AIR BY TO-15																		
1,2,4-Trimethylbenzene	9.8	9.5	-	-	26.3	-	1,2,4-Trimethylbenzene	3.7	U	0.98	U	3.7	U	2.7		3.7	U	0.98	U	0.98	U	3.7	U	0.98	U
2,2,4-Trimethylpentane	-	-	-	-	-	-	2,2,4-Trimethylpentane	0.93	U	1.7		0.93	U	2.4		0.93	U	1.7		0.93	U	0.93	U	0.93	U
Acetone	115	98.9	45.8	-	-	-	Acetone	12	U	49		12	U	36		12	U	33		20		12	U	16	
Benzene	13	9.4	10	-	0.331	1.22	Benzene	*0.9*		*3.6*		*0.64*	*U*	*3.7*		*1*		*2.6*		*0.66*		*0.75*		*1.3*	
Carbon disulfide	-	4.2	-	-	307	-	Carbon disulfide	1.6	U	4.2		1.6	U	1.6	U	1.6	U	1.6	U	1.8		1.6	U	8.3	
Chloromethane	4.2	3.7	-	-	39.4	-	Chloromethane	1.3		1.3		1.4		1.3		1.5		1.1		1.2		1.4		1.2	
Cumene	-	-	-	-	175	-	Cumene	0.98	U	0.98	U	0.98	U	0.98		0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Cyclohexane	6.3	-	-	-	2630	-	Cyclohexane	0.69	U	1.2		0.69	U	1.5		0.69	U	2.1		1.5		0.69	U	0.69	U
Ethylbenzene	6.4	5.7	7.62	-	4.91	-	Ethylbenzene	1.3		0.87	U	0.87	U	1.7		0.98		1.1		0.87	U	0.87	U	0.87	U
Freon 22	-	-	-	-	21900	-	Freon 22	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8		1.8	U	1.8	U	1.8	U
Isopropyl alcohol	-	-	-	-	87.6	-	Isopropyl alcohol	12	U	42		12	U	43		12	U	38		34		12	U	12	U
m,p-Xylene	11	22.2	22.2	-	43.8	-	m,p-Xylene	5.3		2.2	U	2.2	U	6.4		3.6		3.9		2.2	U	2.2	U	2.2	U
Methyl Ethyl Ketone	16	-	-	-	2190	-	Methyl Ethyl Ketone	1.5	U	5.7		1.5	U	4		1.6		4.3		1.9		1.5	U	1.8	
Methyl isobutyl ketone	1.9	6.0	-	-	1310	-	Methyl isobutyl ketone	2	U	2.2		2	U	3.3		2	U	3.3		2	U	2	U	2	U
Methylene Chloride	16	10	7.5	60	263	-	Methylene Chloride	2		3.1		1.7	U	11		1.7	U	25		24		1.7	U	1.7	U
n-Butane	-	-	-	-	-	-	n-Butane	67		17		44		16		36		11		3.9		2.6		3.9	
n-Heptane	18	-	-	-	175	-	n-Heptane	0.82	U	2.4		0.82	U	2.1		0.82	U	1.8		0.82	U	0.82	U	0.82	U
n-Hexane	14	10.2	-	-	307	-	n-Hexane	16		6.3		1.8	U	16		7.5		33		30		1.8	U	1.8	U
Tetrachloroethene	2.5	15.9	-	30	0.876	-	Tetrachloroethene	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	*2.7*	
Toluene	57	43	39.8	-	2190	-	Toluene	5.6		9.7		0.75	U	15		9.8		11		2.8		2.4		3.1	
Trichloroethene	0.46	4.2	-	2	0.876	-	Trichloroethene	1.1	U	*2.8*		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Trichlorofluoromethane	12	18.1	-	-	-	-	Trichlorofluoromethane	1.1	U	1.2		1.1	U	1.3		1.1	U	1.5		1.5		1.2		1.2	
Xylene (total)	-	-	-	-	43.8	-	Xylene (total)	6.6		3	U	3	U	8.9		4.6		5.2		3	U	3	U	3	U
Xylene, o-	7.1	7.9	7.24	-	43.8	-	Xylene, o-	1.4		0.87	U	0.87	U	2.3		1		1.2		0.87	U	0.87	U	0.87	U

Notes:
- : No Criterion/Guideline Value
U : Indicates the analyte was analyzed for but not detected
D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
< : Less Than
ug/m3: micrograms per cubic meter
[1] Upper fence indoor air values from Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[2] 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006).
[3] 95th Percentile Indoor Air Values from "Table C-5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[4] NYSDOH Air Guideline Values (AGVs) presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. ("NYSDOH Vapor Intrusion Guidance Document")
BASE: Building Assessment and Survey Evaluation
US EPA: US Environmental Protection Agency
HEI RIOPA: Health Effects Institute - Relationship of Indoor, Outdoor, and Personal Air
VISL: USEPA Vapor Intrusion Screening Levels for a commercial/industrial worker exposure based on a target cancer risk of 1E-06 and a target non-cancer hazard of 0.1 (USEPA, 2022)
Sample results shown in SHADE font exceed the range of published background concentrations in indoor air.
Sample results shown on *BOLD* font exceeds the USEPA VISLs for commercial/industrial worker exposure scenario.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
FEBRUARY 2, 2022 AND JUNE 1, 2022 SUB SLAB SAMPLE RESULTS - HITS ONLY
47-25 34TH STREET, LONG ISLAND CITY, NEW YORK 11101

VOLATILE ORGANIC COMPOUND (ug/m^3)	NYSDOH Fuel Oil 2003 Upper Fence Limit[1]	USEPA BASE Data 90th Percentile Value[2]	HEI RIOPA 2005 95th Percentile Value[3]	NYSDOH AGV[4]	USEPA VIRLs Commercial/ Industrial		Client ID	SV-1		SV-01-060122		SV-2		SV-02-060122		SV-3		SV-03-060122		SV-4		SV-04-060122	
							Lab Sample ID	200-61972-1		200-63678-1		200-61972-2		200-63678-2		200-61972-3		200-63678-3		200-61972-4		200-63678-4	
							Sampling Date	2/2/2022		6/1/2022		2/2/2022		6/1/2022		2/2/2022		6/1/2022		2/2/2022		6/1/2022	
							Matrix	Air		Air		Air		Air		Air		Air		Air		Air	
							Dilution Factor	1/2		5/10		2/10		8/40		2/10		1/8		2/10		9/45.2	
	Indoor	Indoor	Indoor				Unit	ug/m^3		ug/m3		ug/m^3		ug/m3		ug/m^3		ug/m3		ug/m^3		ug/m3	
								Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
AIR BY TO-15							AIR BY TO-15																
1,1,1-Trichloroethane	2.5	20.6	-	-	2190		1,1,1-Trichloroethane	9.2		5.5	U	710		1600		69		93		78		150	
1,1-Dichloroethane	0.38	<0.7	-	-	7.67		1,1-Dichloroethane	0.81	U	4	U	*38*		*130*		5.5		*6.5*		*15*		*50*	
1,1-Dichloroethene	0.4	<1.4	-	-	87.6		1,1-Dichloroethene	0.79	U	4	U	1.6	U	6.3	U	5.7		3.2		1.6	U	7.1	U
1,2,4-Trimethylbenzene	9.8	9.5	-	-	26.3		1,2,4-Trimethylbenzene	7.1		*290*		26		18		19		19		9.1		16	
1,2-Dichloroethene, Total	-	-	-	-	-		1,2-Dichloroethene, Total	1.6	U	7.9	U	19		75		11		14		3.2	U	14	U
1,3,5-Trimethylbenzene	3.9	3.7	-	-	26.3		1,3,5-Trimethylbenzene	2.5		*190*		8.9		7.9	U	5.8		4.9		4.7		13	
1,3-Butadiene	-	<3.0	-	-	0.409		1,3-Butadiene	1.4		*5.4*		0.88	U	3.5	U	*1.7*		*0.89*		*4.6*		4	U
1,3-Dichlorobenzene	0.5	<2.4	-	-	-		1,3-Dichlorobenzene	1.2	U	6	U	20		9.6	U	2.4	U	1.2	U	4.9		11	U
2,2,4-Trimethylpentane	-	-	-	-	-		2,2,4-Trimethylpentane	4.3		4.7	U	1.9	U	7.5	U	2.3		1.6		1.9	U	8.4	U
4-Ethyltoluene	-	3.6	-	-	-		4-Ethyltoluene	1.6		75		7		7.9	U	5.4		4.9		2.6		8.8	U
4-Isopropyltoluene	-	-	-	-	-		4-Isopropyltoluene	3.5		79		3		8.8	U	2.4		2.4		2.2	U	9.9	U
Acetone	115	98.9	45.8	-	-		Acetone	130		630		110		3700		36		53		70		600	
Benzene	13	9.4	10	-	1.57		Benzene	*5.3*		*6*		*3.3*		5.1	U	*5.7*		*3.6*		*31*		*20*	
Bromodichloromethane	-	-	-	-	0.331		Bromodichloromethane	1.3	U	6.7	U	2.7	U	11	U	2.7	U	*3.1*		2.7	U	12	U
Carbon disulfide	-	4.2	-	-	307		Carbon disulfide	10		7.8	U	5		12	U	6.1		2.5		11		21	
Carbon tetrachloride	1.3	<1.3	1.1	-	2.04		Carbon tetrachloride	1.3	U	6.3	U	2.5	U	10	U	2.5	U	1.3	U	*2.8*		11	U
Chloroform	1.2	1.1	6.34	-	0.533		Chloroform	0.98	U	4.9	U	*9.8*		*19*		*34*		*50*		*12*		*46*	
cis-1,2-Dichloroethene	0.41	<1.9	-	-	-		cis-1,2-Dichloroethene	0.79	U	4	U	19		75		11		14		1.6	U	7.1	U
Cumene	-	-	-	-	175		Cumene	1.1		44		2	U	7.9	U	2	U	0.98	U	2	U	8.8	U
Cyclohexane	6.3	-	-	-	2630		Cyclohexane	4.1		3.4	U	7.6		5.5	U	2.2		1.0		2.6		6.2	U
Ethylbenzene	6.4	5.7	7.62	-	4.91		Ethylbenzene	4.6		*17*		*6.5*		*13*		*8*		*12*		4.7		*12*	
Isopropyl alcohol	-	-	-	-	87.6		Isopropyl alcohol	46		61	U	51		98	U	25	U	12		25	U	110	U
m,p-Xylene	11	22.2	22.2	-	43.8		m,p-Xylene	16		*88*		28		*55*		34		*59*		20		*58*	
Methyl Butyl Ketone (2-Hexanone)	-	-	-	-	13.1		Methyl Butyl Ketone (2-Hexanone)	2	U	10	U	8.8		16	U	4.1	U	2.0	U	4.1	U	18	U
Methyl Ethyl Ketone	16	-	-	-	2190		Methyl Ethyl Ketone	8.6		*24*		16		35		5.5		1.5	U	6.7		27	
Methyl isobutyl ketone	1.9	6.0	-	-	1310		Methyl isobutyl ketone	2	U	10	U	5.6		16	U	4.1	U	2	U	4.1	U	21	
Methylene Chloride	16	10	7.5	60	263		Methylene Chloride	7		8.7	U	8.4		81		3.5	U	1.7	U	3.5	U	190	
n-Butane	-	-	-	-	-		n-Butane	16		7.4		16		16		18		7.6		17		16	
n-Butylbenzene	1.1	-	-	-	-		n-Butylbenzene	1.1	U	24		2.2	U	8.8	U	2.2	U	1.1	U	2.2	U	9.9	U
n-Heptane	18	-	-	-	175		n-Heptane	31		130		5.5		6.6	U	8.8		6.5		7.7		17	
n-Hexane	14	10.2	-	-	307		n-Hexane	9.7		8.8	U	6.6		14	U	8.7		5.9		4.8		16	U
n-Propylbenzene	1.5	-	-	-	438		n-Propylbenzene	1.3		81		4.5		7.9	U	3.7		3.2		2	U	8.8	U
sec-Butylbenzene	1.2	-	-	-	-		sec-Butylbenzene	1.1	U	110		2.2	U	8.8	U	2.2	U	1.1	U	2.2	U	9.9	U
Styrene	1.4	1.9	5.13	-	438		Styrene	0.85	U	4.3	U	1.7	U	6.8	U	1.7	U	4.3		1.7	U	7.7	U
tert-Butylbenzene	1.3	-	-	-	-		tert-Butylbenzene	15	U	44		30	U	8.8	U	30	U	1.1	U	30	U	9.9	U
Tetrachloroethene	2.5	15.9	-	30	0.876		Tetrachloroethene	*4.5*		*74*		*200*		*350*		*67*		*220*		*18*		*150*	
Toluene	57	43	39.8	-	2190		Toluene	27		22		21		32		29		21		110		180	
Trichloroethene	0.46	4.2	-	2	0.876		Trichloroethene	*5.3*		5.4	U	*1400*		*1600*		*890*		*970*		*1600*		*7400*	
Trichlorofluoromethane	12	18.1	-	-	-		Trichlorofluoromethane	1.3		5.6	U	2.2	U	9	U	2.2	U	1.3		2.2	U	10	U
Xylene (total)	-	-	-	-	43.8		Xylene (total)	4.7		*120*		8.9		*73*		11		*78*		6.5		*80*	
Xylene, o-	7.1	7.9	7.24	-	43.8		Xylene, o-	4.9		36		11		17				17		8.3		24	

Notes:
- : No Criterion/Guideline Value
U : Indicates the analyte was analyzed for but not detected
D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
< : Less Than
ug/m3: micrograms per cubic meter
[1] Upper fence indoor air values from Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
[2] 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C (October 2006)
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BASE: Building Assessment and Survey Evaluation
US EPA: US Environmental Protection Agency
HEI RIOPA: Health Effects Institute - Relationship of Indoor, Outdoor, and Personal Air
VISL: USEPA Vapor Intrusion Screening Levels for a commercial/industrial worker exposure based on a target cancer risk of 1E-06 and a target non-cancer hazard of 0.1 (USEPA, 2022)
Sample results shown in SHADE font exceed the range of published background concentrations in indoor air.
Sample results shown on *BOLD* font exceeds the USEPA VISLs for commercial/industrial worker exposure scenario.

Figures



Legend

Project Area

Feet

0 250 500 1,000

AECOM
605 Third Avenue, Third Floor
New York, NY 10158
Phone: (212) 736-4444

Job: 60602814

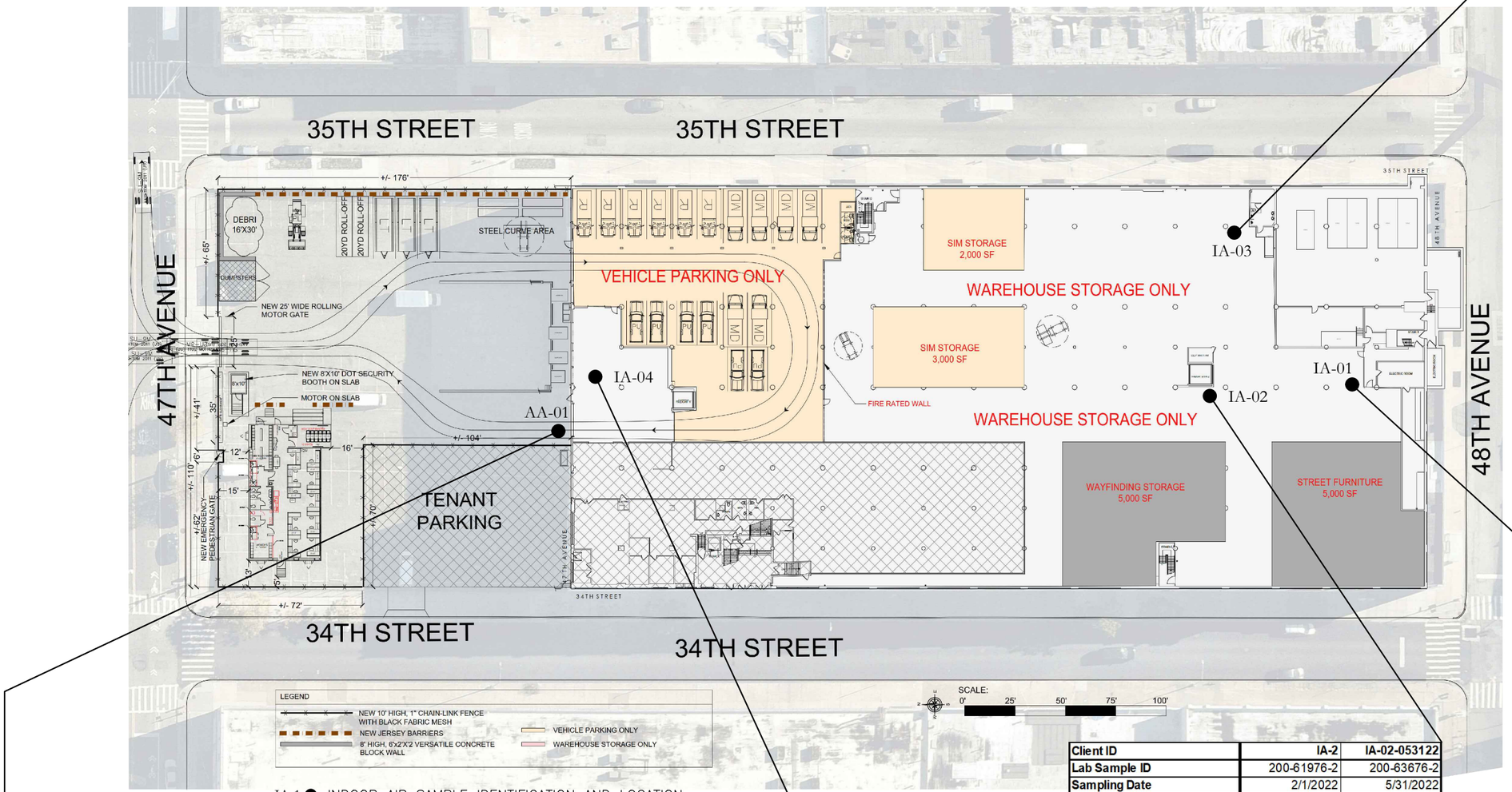
Prepared by: DA

Checked by: CW

Date: 4/1/2022

FIGURE 1
PROJECT AREA MAP

47-25 34th Street
Long Island City, New York
11101



IA-1 ● INDOOR AIR SAMPLE IDENTIFICATION AND LOCATION

Notes:
ug/m3 = micrograms per cubic meter

Indoor air sample results shown in SHADE font exceed the range of published background concentrations in indoor air.

Client ID	IA-3		IA-03-053122	
Lab Sample ID	200-61976-3		200-63676-3	
Sampling Date	2/1/2022		5/31/2022	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
2,2,4-Trimethylpentane	0.93	U	1.7	
Acetone	12	U	33	
Benzene	***1***		***2.6***	
Chloromethane	1.5		1.1	
Cyclohexane	0.69	U	2.1	
Ethylbenzene	0.98		1.1	
Freon 22	1.8	U	1.8	
Isopropyl alcohol	12	U	38	
m,p-Xylene	3.6		3.9	
Methyl Ethyl Ketone	1.6		4.3	
Methyl isobutyl ketone	2	U	3.3	
Methylene Chloride	1.7	U	25	
n-Butane	36		11	
n-Heptane	0.82	U	1.8	
n-Hexane	7.5		33	
Toluene	9.8		11	
Trichlorofluoromethane	1.1	U	1.5	
Xylene (total)	4.6		5.2	
Xylene, o-	1		1.2	

Client ID	IA-1		IA-01-053122	
Lab Sample ID	200-61976-1		200-63676-1	
Sampling Date	2/1/2022		5/31/2022	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
2,2,4-Trimethylpentane	0.93	U	1.7	
Acetone	12	U	49	
Benzene	***0.9***		***3.6***	
Carbon disulfide	1.6	U	4.2	
Chloromethane	1.3		1.3	
Cyclohexane	0.69	U	1.2	
Ethylbenzene	1.3		0.87	U
Isopropyl alcohol	12	U	42	
m,p-Xylene	5.3		2.2	U
Methyl Ethyl Ketone	1.5	U	5.7	
Methyl isobutyl ketone	2	U	2.2	
Methylene Chloride	2		3.1	
n-Butane	67		17	
n-Heptane	0.82	U	2.4	
n-Hexane	16		6.3	
Toluene	5.6		9.7	
Trichloroethene	1.1	U	***2.8***	
Trichlorofluoromethane	1.1	U	1.2	
Xylene (total)	6.6		3	U
Xylene, o-	1.4		0.87	U

Client ID	IA-4		AA-01-053122	
Lab Sample ID	200-61976-4		200-63676-5	
Sampling Date	2/1/2022		5/31/2022	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
Acetone	12	U	16	
Benzene	***0.75***		***1.3***	
Carbon disulfide	1.6	U	8.3	
Chloromethane	1.4		1.2	
Methyl Ethyl Ketone	1.5	U	1.8	
n-Butane	2.6		3.9	
Tetrachloroethene	1.4	U	***2.7***	
Toluene	2.4		3.1	
Trichlorofluoromethane	1.2		1.2	

Client ID	IA-04-053122	
Lab Sample ID	200-63676-4	
Sampling Date	5/31/2022	
Unit	ug/m3	
	Result	Q
AIR BY TO-15		
Acetone	20	
Benzene	***0.66***	
Carbon disulfide	1.8	
Chloromethane	1.2	
Cyclohexane	1.5	
Isopropyl alcohol	34	
Methyl Ethyl Ketone	1.9	
Methylene Chloride	24	
n-Butane	3.9	
n-Hexane	30	
Toluene	2.8	
Trichlorofluoromethane	1.5	

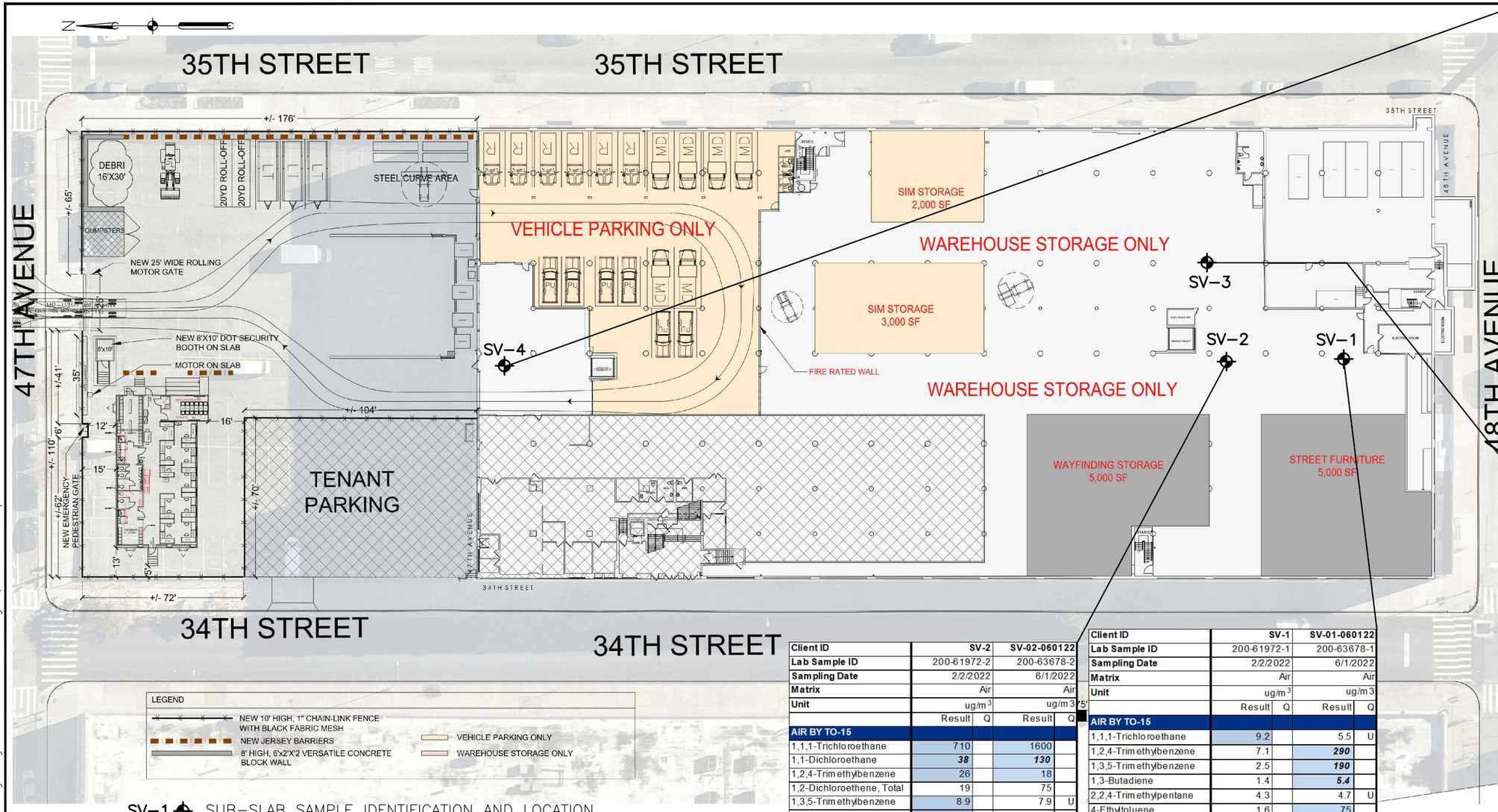
Client ID	IA-2		IA-02-053122	
Lab Sample ID	200-61976-2		200-63676-2	
Sampling Date	2/1/2022		5/31/2022	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
1,2,4-Trimethylbenzene	3.7	U	2.7	
2,2,4-Trimethylpentane	0.93	U	2.4	
Acetone	12	U	36	
Benzene	***0.64***	***U***	***3.7***	
Chloromethane	1.4		1.3	
Cumene	0.98	U	0.98	
Cyclohexane	0.69	U	1.5	
Ethylbenzene	0.87	U	1.7	
Isopropyl alcohol	12	U	43	
m,p-Xylene	2.2	U	6.4	
Methyl Ethyl Ketone	1.5	U	4	
Methyl isobutyl ketone	2	U	3.3	
Methylene Chloride	1.7	U	11	
n-Butane	44		16	
n-Heptane	0.82	U	2.1	
n-Hexane	1.8	U	16	
Toluene	0.75	U	15	
Trichlorofluoromethane	1.1	U	1.3	
Xylene (total)	3	U	8.9	
Xylene, o-	0.87	U	2.3	

INDOOR AIR SAMPLE LOCATIONS AND RESULTS
47–25 34TH STREET
LONG ISLAND CITY, NY LEASEHOLD

AECOM
CLIFTON, NEW JERSEY

DR. BY	ET	SCALE	AS SHOWN	DWG. NO. 60602814.01	PROJ. NO. 60602814
CK'D. BY	CW	DATE	AUGUST 9, 2022	FIG. NO.	2

C:\Aecom\60602814(NYCDOT-34thSt)\60602814.01_NYCDOT-34thSt-Fig.2.dwg User: eva.tucewicz Aug 12, 2022 - 12:35pm



LEGEND

- NEW 10' HIGH, 1" CHAIN-LINK FENCE WITH BLACK FABRIC MESH
- NEW JERSEY BARRIERS
- 8' HIGH, 6'x2'X'2 VERSATILE CONCRETE BLOCK WALL
- VEHICLE PARKING ONLY
- WAREHOUSE STORAGE ONLY

SV–1 SUB–SLAB SAMPLE IDENTIFICATION AND LOCATION

LEGEND:
ug/m3: micrograms per cubic meter

Indoor air sample results shown in SHADE font exceed the range of published VOC background concentrations in indoor air.

VOC: Volatile Organic Compounds

0 25 50 100
SCALE (FEET)

Client ID	SV-4		SV-04-060122	
Lab Sample ID	200-61972-4		200-63678-4	
Sampling Date	2/2/2022		6/1/2022	
Matrix	Air		Air	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
1,1,1-Trichloroethane	78		150	
1,1-Dichloroethane	***15***		***50***	
1,2,4-Trimethylbenzene	9.1		16	
1,3,5-Trimethylbenzene	4.7		13	
1,3-Butadiene	***4.6***		4	U
1,3-Dichlorobenzene	4.9		11	U
4-Ethyltoluene	2.6		8.8	U
Acetone	70		600	
Benzene	***31***		***20***	
Carbon disulfide	11		21	
Carbon tetrachloride	***2.8***		11	U
Chloroform	***12***		***46***	
Cyclohexane	2.6		6.2	U
Ethylbenzene	4.7		***12***	
m,p-Xylene	20		***58***	
Methyl Ethyl Ketone	6.7		27	
Methyl isobutyl ketone	4.1	U	21	
Methylene Chloride	3.5	U	190	
n-Butane	17		16	
n-Heptane	7.7		17	
n-Hexane	4.8		16	U
Tetrachloroethene	***18***		***150***	
Toluene	110		180	
Trichloroethene	***1600***		***7400***	
Xylene (total)	6.5		***80***	
Xylene, o-	8.3		24	

Client ID	SV-3		SV-03-060122	
Lab Sample ID	200-61972-3		200-63678-3	
Sampling Date	2/2/2022		6/1/2022	
Matrix	Air		Air	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
1,1,1-Trichloroethane	69		93	
1,1-Dichloroethane	5.5		***6.5***	
1,1-Dichloroethene	5.7		3.2	
1,2,4-Trimethylbenzene	19		19	
1,2-Dichloroethene, Total	11		14	
1,3,5-Trimethylbenzene	5.8		4.9	
1,3-Butadiene	***1.7***		***0.89***	
2,2,4-Trimethylpentane	2.3		1.6	
4-Ethyltoluene	5.4		4.9	
4-Isopropyltoluene	2.4		2.4	
Acetone	36		53	
Benzene	***5.7***		***3.6***	
Bromodichloromethane	2.7	U	***3.1***	
Carbon disulfide	6.1		2.5	
Chloroform	***34***		***50***	
cis-1,2-Dichloroethene	11		14	
Cyclohexane	2.2		1.0	
Ethylbenzene	***8***		***12***	
Isopropyl alcohol	25	U	12	
m,p-Xylene	34		***59***	
Methyl Ethyl Ketone	5.5		1.5	U
n-Butane	18		7.6	
n-Heptane	8.8		6.5	
n-Hexane	8.7		5.9	
n-Propylbenzene	3.7		3.2	
Styrene	1.7	U	4.3	
Tetrachloroethene	***67***		***220***	
Toluene	29		21	
Trichloroethene	***890***		***970***	
Trichlorofluoromethane	2.2	U	1.3	
Xylene (total)	11		***78***	
Xylene, o-			17	

Client ID	SV-2		SV-02-060122	
Lab Sample ID	200-61972-2		200-63678-2	
Sampling Date	2/2/2022		6/1/2022	
Matrix	Air		Air	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
1,1,1-Trichloroethane	710		1600	
1,1-Dichloroethane	***38***		***130***	
1,2,4-Trimethylbenzene	26		18	
1,2-Dichloroethene, Total	19		75	
1,3,5-Trimethylbenzene	8.9		7.9	U
1,3-Dichlorobenzene	20		9.6	U
4-Ethyltoluene	7		7.9	U
4-Isopropyltoluene	3		8.8	U
Acetone	110		3700	
Benzene	***3.3***		5.1	U
Carbon disulfide	5		12	U
Chloroform	***9.8***		***19***	
cis-1,2-Dichloroethene	19		75	
Cyclohexane	7.6		5.5	U
Ethylbenzene	***6.5***		***13***	
Isopropyl alcohol	51		98	U
m,p-Xylene	28		***55***	
Methyl Butyl Ketone (2-Hexanone)	8.8		16	U
Methyl Ethyl Ketone	16		35	
Methyl isobutyl ketone	5.6		16	U
Methylene Chloride	8.4		81	
n-Butane	16		16	
n-Heptane	5.5		6.6	U
n-Hexane	6.6		14	U
n-Propylbenzene	4.5		7.9	U
Tetrachloroethene	***200***		***350***	
Toluene	21		32	
Trichloroethene	***1400***		***1600***	
Xylene (total)	8.9		***73***	
Xylene, o-	11		17	

Client ID	SV-1		SV-01-060122	
Lab Sample ID	200-61972-1		200-63678-1	
Sampling Date	2/2/2022		6/1/2022	
Matrix	Air		Air	
Unit	ug/m3		ug/m3	
	Result	Q	Result	Q
AIR BY TO-15				
1,1,1-Trichloroethane	9.2		5.5	U
1,2,4-Trimethylbenzene	7.1		***290***	
1,3,5-Trimethylbenzene	2.5		***190***	
1,3-Butadiene	1.4		***5.4***	
2,2,4-Trimethylpentane	4.3		4.7	U
4-Ethyltoluene	1.6		75	
4-Isopropyltoluene	3.5		79	
Acetone	130		630	
Benzene	***5.3***		***6***	
Carbon disulfide	10		7.8	U
Cumene	1.1		44	
Cyclohexane	4.1		3.4	U
Ethylbenzene	4.6		***17***	
Isopropyl alcohol	46		61	U
m,p-Xylene	16		***88***	
Methyl Ethyl Ketone	8.6		***24***	
Methylene Chloride	7		8.7	U
n-Butane	16		7.4	
n-Butylbenzene	1.1	U	24	
n-Heptane	31		130	
n-Hexane	9.7		8.8	U
n-Propylbenzene	1.3		81	
sec-Butylbenzene	1.1	U	110	
tert-Butylbenzene	15	U	44	
Tetrachloroethene	***4.5***		***74***	
Toluene	27		22	
Trichloroethene	***5.3***		5.4	U
Trichlorofluoromethane	1.3		5.6	U
Xylene (total)	4.7		***120***	
Xylene, o-	4.9		36	

SUB–SLAB SAMPLE LOCATIONS AND RESULTS
47–25 34TH STREET
LONG ISLAND CITY, NY LEASEHOLD

AECOM
CLIFTON, NEW JERSEY

DR. BY	ET	SCALE	1"=50'	DWG. NO. 60602814.02	PROJ. NO. 60602814
CK'D. BY	CW	DATE	AUGUST 9, 2022	FIG. NO.	3

Aug 12, 2022 – 12:37pm User: eva.tucewicz
C:\Aecom\60602814(NYCDOT–34thSt)\60602814.02_NYCDOT–34thSt–Fig.3.dwg

Appendix A – NYSDOH Indoor Air Quality Questionnaire

Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** HUB Bldg.

Site No. : _____ **Site Name :** HUB Bldg; 47-25 34th St. LIC, NY

Date: February 1, 2022 **Time:** 8:30AM

Structure Address : 47-25 34th Street, Long Island City, NY

Preparer's Name & Affiliation : Christine Wagner / Aleksandra Mallon, AECOM

Residential ? ☐ Yes ☒ No **Owner Occupied ?** ☒ Yes ☐ No **Owner Interviewed ?** ☐ Yes ☒ No

Commercial ? ☒ Yes ☐ No **Industrial ?** ☐ Yes ☒ No **Mixed Uses ?** ☐ Yes ☒ No

Identify all non-residential use(s) : NYC DOT Storage Warehouse & Vehicle Parking

Owner Name : Metropolitan Realty Assoc LLC **Owner Phone :** (212) 350 - 3771

c/o Joe Farkas, Facility Mgr. **Secondary Owner Phone :** ( ) _____ - _____

Owner Address (if different) : 555 Madison Ave. 16th Fl., NY, NY, 10022

Occupant Name : NY City Dept. of Transportation **Occupant Phone :** (212) 839-8894

c/o Dorrit Blakeslee, PM Facilities **Secondary Occupant Phone :** ( ) _____ - _____

Number & Age of All Persons Residing at this Location : N/A

Additional Owner/Occupant Information : Occupant is tenant. Space used for storage

Describe Structure (style, number floors, size) : Commercial 4 floor Bldg. Lease hold includes ground level (55,000 sf) an 1st Floor (81,000 sf) of Warehouse Structure

Approximate **Year Built :** 1924 Is the building **Insulated?** ☐ Yes ☐ No

Lowest level : ☒ Slab-on-grade ☐ Basement ☐ Crawlspace

Describe Lowest Level (finishing, use, time spent in space) : Concrete floor & Cinderblock walls with concrete decking.

Floor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed : _____

Floor Condition : ☐ Good (few or no cracks) ☒ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps/Drains? ☒ Yes ☐ No Describe : Multiple floor drains

Identify other floor penetrations & details : Utility trenches & ~~fuel~~ former equipment/ fuel access pits.

Wall Construction : ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations : _____

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc) : None observed.

Heating Fuel : ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other : _____

Heating System : ☒ Forced Air ☐ Hot Water ☐ Other : Radiators

Hot Water System : ☐ Combustion ☒ Electric ☐ Boilermate ☐ Other: _____

Clothes Dryer : ☐ Electric ☐ Gas Where is dryer **vented** to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : Natural Gas-Fired Boiler in boiler Room.

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : Garage doors maintained open during daytime hours.

Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** HUB Bldg.

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):
One pallet with seven (7) pails (5-gallon) of latex paints near SV. 3.

Attached garage ? ☒ Yes ☐ No Air fresheners ? ☐ Yes ☐ No

New carpet or furniture ? ☐ Yes ☐ No What/Where ? N/A

Recent **painting** or **staining** ? ☐ Yes ☒ No Where ? : _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☒ No Describe : _____

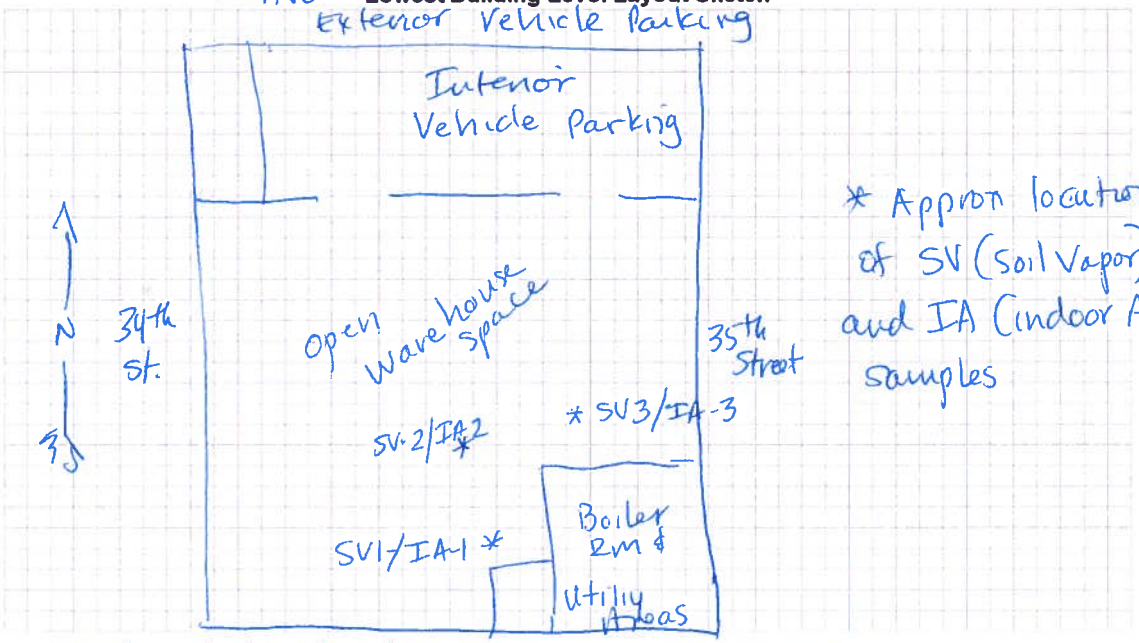
Last time **Dry Cleaned** fabrics brought in ? _____ What / Where ? N/A

Do any building occupants use solvents at work ? ☐ Yes ☒ No Describe : Not in DOT leasehold.

Any testing for Radon ? ☐ Yes ☒ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☐ Yes ☐ No If yes, describe below

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling - Product Inventory

Homeowner Name & Address: _____ **Date:** 2/1/22

Samplers & Company: Alexandra Mallon, AECOM **Structure ID:** _____

Site Number & Name: 47-25 34th Street, LIC, NY **Phone Number:** _____

Make & Model of PID: _____ **Date of PID Calibration:** 2/1/22

Identify any Changes from Original Building Questionnaire : _____

	Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
①	Mercury Duravshield Rust Preventative Maintenance Enamel/Gray	3 5gallon pails	Contains: Alkyd resin, titanium dioxide, Calcium Carbonate, Mineral, High-Flash Naphtha & Proprietary	Ø	North of Column AZ CN of SV-3)
②	BEHR Premium Textured Deck Over	2 5gallon pails	Silica, crystalline-quartz 30-60% Glass, oxide 1-5% Magnesium Potassium Silicate - 1-5% 2,2,4-Trimethyl-1,3-Pentanediol Monoiso butyrate 1-5%	Ø	
③	Benjamin Moore-Eco Spec Zero VOC-Waterborne formula - Latex Finish	2 5gallon pails	Titanium dioxide - 20-25% Kaolin, calcined 1-5% Nepheline syenite 1-5% Trimethylolpropane 0.1-0.5% Sodium C14-C16 olefin 0.1-0.5%	Ø	

Indoor air and sub-slab sampling event at the HUB building in Long Island City, NY from 5/31/22 to 6/1/22.

Jay Patel of AECOM performed a site-walk with Frank Dillon (NYCDOT rep) on 5/31/2022.

1. Multiple idling DOT cars observed inside the warehouse from 8-8:30 am. Mostly towards the north side of the building (47th street).
2. Catalogued items throughout the warehouse.
    - Mostly traffic signs, chairs, cardboard boxes with insulation, tools and equipment. No PID Readings above background noted.
    - Warehouse is well-ventilated. No cracks observed on the walls.
    - Open holes were observed on the ground at what appear to be drain inlets. Drains were observed in a line on west side of warehouse with additional opening noted near northeast corner of warehouse /non-vehicle area.
    - Jay Patel of AECOM discussed with Ray Leubeker (Building Manager) regarding drains/openings. Mr. Leubeker surmises that the drains/openings are traps for the drains since the building is pitching approx. 8 ft from the back of the building to the front.
    - Some of the holes are patched but some have fallen through.
3. Based upon drilling conducted, AECOM notes that the slab thickness was approximately 5 inches.

Appendix B – Laboratory Analytical Report

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-63676-1
Laboratory Sample Delivery Group: 200-63676-1
Client Project/Site: HUB Building - Long Island

For:
AECOM
1255 Broad Street
Clifton, New Jersey 07013

Attn: Christine Wagner

Elizabeth A. Nye

Authorized for release by:
6/9/2022 1:51:06 PM

Elizabeth Nye, Project Manager I
(802)923-1029
Elizabeth.Nye@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job ID: 200-63676-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: AECOM

Project: HUB Building - Long Island

Report Number: 200-63676-1

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 06/04/2022; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples IA-01-053122, IA-02-053122, IA-03-053122, IA-04-053122 and AA-01-053122 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 06/06/2022.

The continuing calibration verification (CCV) associated with batch 200-180517 recovered above the upper control limit for Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Detection Summary

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Client Sample ID: IA-01-053122 — Lab Sample ID: 200-63676-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.62		0.50		ppb v/v	1		TO-15	Total/NA
n-Butane	7.3		0.50		ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20		ppb v/v	1		TO-15	Total/NA
Acetone	21		5.0		ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	17		5.0		ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.4		0.50		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.89		0.50		ppb v/v	1		TO-15	Total/NA
n-Hexane	1.8		0.50		ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.9		0.50		ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.36		0.20		ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.36		0.20		ppb v/v	1		TO-15	Total/NA
Benzene	1.1		0.20		ppb v/v	1		TO-15	Total/NA
n-Heptane	0.60		0.20		ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.52		0.20		ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.53		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	2.6		0.20		ppb v/v	1		TO-15	Total/NA

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	17		1.2		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1		ug/m3	1		TO-15	Total/NA
Acetone	49		12		ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	42		12		ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.2		1.6		ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.1		1.7		ug/m3	1		TO-15	Total/NA
n-Hexane	6.3		1.8		ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	5.7		1.5		ug/m3	1		TO-15	Total/NA
Cyclohexane	1.2		0.69		ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.7		0.93		ug/m3	1		TO-15	Total/NA
Benzene	3.6		0.64		ug/m3	1		TO-15	Total/NA
n-Heptane	2.4		0.82		ug/m3	1		TO-15	Total/NA
Trichloroethene	2.8		1.1		ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	2.2		2.0		ug/m3	1		TO-15	Total/NA
Toluene	9.7		0.75		ug/m3	1		TO-15	Total/NA

Client Sample ID: IA-02-053122 — Lab Sample ID: 200-63676-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.63		0.50		ppb v/v	1		TO-15	Total/NA
n-Butane	6.8		0.50		ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20		ppb v/v	1		TO-15	Total/NA
Acetone	15		5.0		ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	18		5.0		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	3.2		0.50		ppb v/v	1		TO-15	Total/NA
n-Hexane	4.6		0.50		ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.3		0.50		ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.43		0.20		ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.51		0.20		ppb v/v	1		TO-15	Total/NA
Benzene	1.2		0.20		ppb v/v	1		TO-15	Total/NA
n-Heptane	0.51		0.20		ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.81		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	3.9		0.20		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-02-053122 (Continued) — Lab Sample ID: 200-63676-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.39		0.20		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.5		0.50		ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.54		0.20		ppb v/v	1		TO-15	Total/NA
Xylene (total)	2.0		0.70		ppb v/v	1		TO-15	Total/NA
Cumene	0.20		0.20		ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.56		0.20		ppb v/v	1		TO-15	Total/NA

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	16		1.2		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1		ug/m3	1		TO-15	Total/NA
Acetone	36		12		ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	43		12		ug/m3	1		TO-15	Total/NA
Methylene Chloride	11		1.7		ug/m3	1		TO-15	Total/NA
n-Hexane	16		1.8		ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	4.0		1.5		ug/m3	1		TO-15	Total/NA
Cyclohexane	1.5		0.69		ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.4		0.93		ug/m3	1		TO-15	Total/NA
Benzene	3.7		0.64		ug/m3	1		TO-15	Total/NA
n-Heptane	2.1		0.82		ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	3.3		2.0		ug/m3	1		TO-15	Total/NA
Toluene	15		0.75		ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7		0.87		ug/m3	1		TO-15	Total/NA
m,p-Xylene	6.4		2.2		ug/m3	1		TO-15	Total/NA
Xylene, o-	2.3		0.87		ug/m3	1		TO-15	Total/NA
Xylene (total)	8.9		3.0		ug/m3	1		TO-15	Total/NA
Cumene	0.98		0.98		ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.7		0.98		ug/m3	1		TO-15	Total/NA

Client Sample ID: IA-03-053122 — Lab Sample ID: 200-63676-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	0.50		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	4.5		0.50		ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20		ppb v/v	1		TO-15	Total/NA
Acetone	14		5.0		ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	15		5.0		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	7.1		0.50		ppb v/v	1		TO-15	Total/NA
n-Hexane	9.3		0.50		ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.5		0.50		ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.62		0.20		ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.36		0.20		ppb v/v	1		TO-15	Total/NA
Benzene	0.83		0.20		ppb v/v	1		TO-15	Total/NA
n-Heptane	0.44		0.20		ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.81		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	3.0		0.20		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.26		0.20		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.91		0.50		ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.28		0.20		ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.2		0.70		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-03-053122 (Continued)

Lab Sample ID: 200-63676-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	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	11		1.2		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1		ug/m3	1		TO-15	Total/NA
Acetone	33		12		ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	38		12		ug/m3	1		TO-15	Total/NA
Methylene Chloride	25		1.7		ug/m3	1		TO-15	Total/NA
n-Hexane	33		1.8		ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	4.3		1.5		ug/m3	1		TO-15	Total/NA
Cyclohexane	2.1		0.69		ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.7		0.93		ug/m3	1		TO-15	Total/NA
Benzene	2.6		0.64		ug/m3	1		TO-15	Total/NA
n-Heptane	1.8		0.82		ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	3.3		2.0		ug/m3	1		TO-15	Total/NA
Toluene	11		0.75		ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.1		0.87		ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.9		2.2		ug/m3	1		TO-15	Total/NA
Xylene, o-	1.2		0.87		ug/m3	1		TO-15	Total/NA
Xylene (total)	5.2		3.0		ug/m3	1		TO-15	Total/NA

Client Sample ID: IA-04-053122

Lab Sample ID: 200-63676-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.59		0.50		ppb v/v	1		TO-15	Total/NA
n-Butane	1.6		0.50		ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20		ppb v/v	1		TO-15	Total/NA
Acetone	8.6		5.0		ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	14		5.0		ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.59		0.50		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	7.1		0.50		ppb v/v	1		TO-15	Total/NA
n-Hexane	8.4		0.50		ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.66		0.50		ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.45		0.20		ppb v/v	1		TO-15	Total/NA
Benzene	0.21		0.20		ppb v/v	1		TO-15	Total/NA
Toluene	0.73		0.20		ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.2		1.0		ug/m3	1		TO-15	Total/NA
n-Butane	3.9		1.2		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1		ug/m3	1		TO-15	Total/NA
Acetone	20		12		ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	34		12		ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.8		1.6		ug/m3	1		TO-15	Total/NA
Methylene Chloride	24		1.7		ug/m3	1		TO-15	Total/NA
n-Hexane	30		1.8		ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.9		1.5		ug/m3	1		TO-15	Total/NA
Cyclohexane	1.5		0.69		ug/m3	1		TO-15	Total/NA
Benzene	0.66		0.64		ug/m3	1		TO-15	Total/NA
Toluene	2.8		0.75		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Client Sample ID: AA-01-053122 — Lab Sample ID: 200-63676-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.58		0.50		ppb v/v	1		TO-15	Total/NA
n-Butane	1.7		0.50		ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20		ppb v/v	1		TO-15	Total/NA
Acetone	6.7		5.0		ppb v/v	1		TO-15	Total/NA
Carbon disulfide	2.7		0.50		ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.62		0.50		ppb v/v	1		TO-15	Total/NA
Benzene	0.42		0.20		ppb v/v	1		TO-15	Total/NA
Toluene	0.81		0.20		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.40		0.20		ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.2		1.0		ug/m3	1		TO-15	Total/NA
n-Butane	3.9		1.2		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1		ug/m3	1		TO-15	Total/NA
Acetone	16		12		ug/m3	1		TO-15	Total/NA
Carbon disulfide	8.3		1.6		ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.8		1.5		ug/m3	1		TO-15	Total/NA
Benzene	1.3		0.64		ug/m3	1		TO-15	Total/NA
Toluene	3.1		0.75		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.7		1.4		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-01-053122

Date Collected: 05/31/22 16:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-1

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
Freon 22	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Chloromethane	**0.62**		0.50		ppb v/v			06/06/22 13:53	1
n-Butane	**7.3**		0.50		ppb v/v			06/06/22 13:53	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Bromomethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Chloroethane	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Trichlorofluoromethane	**0.21**		0.20		ppb v/v			06/06/22 13:53	1
Freon TF	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Acetone	**21**		5.0		ppb v/v			06/06/22 13:53	1
Isopropyl alcohol	**17**		5.0		ppb v/v			06/06/22 13:53	1
Carbon disulfide	**1.4**		0.50		ppb v/v			06/06/22 13:53	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
Methylene Chloride	**0.89**		0.50		ppb v/v			06/06/22 13:53	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 13:53	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
n-Hexane	**1.8**		0.50		ppb v/v			06/06/22 13:53	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Methyl Ethyl Ketone	**1.9**		0.50		ppb v/v			06/06/22 13:53	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/06/22 13:53	1
Chloroform	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/06/22 13:53	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Cyclohexane	**0.36**		0.20		ppb v/v			06/06/22 13:53	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
2,2,4-Trimethylpentane	**0.36**		0.20		ppb v/v			06/06/22 13:53	1
Benzene	**1.1**		0.20		ppb v/v			06/06/22 13:53	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
n-Heptane	**0.60**		0.20		ppb v/v			06/06/22 13:53	1
Trichloroethene	**0.52**		0.20		ppb v/v			06/06/22 13:53	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/06/22 13:53	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
methyl isobutyl ketone	**0.53**		0.50		ppb v/v			06/06/22 13:53	1
Toluene	**2.6**		0.20		ppb v/v			06/06/22 13:53	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1

Client Sample ID: IA-01-053122
Date Collected: 05/31/22 16:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-1
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			06/06/22 13:53	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/06/22 13:53	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/06/22 13:53	1
Styrene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Bromoform	0.20	U *1	0.20		ppb v/v			06/06/22 13:53	1
Cumene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
1,2,4-Trichlorobenzene	0.50	U *1	0.50		ppb v/v			06/06/22 13:53	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/06/22 13:53	1
Naphthalene	0.50	U *1	0.50		ppb v/v			06/06/22 13:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/06/22 13:53	1
Freon 22	1.8	U	1.8		ug/m3			06/06/22 13:53	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/06/22 13:53	1
Chloromethane	**1.3**		1.0		ug/m3			06/06/22 13:53	1
n-Butane	**17**		1.2		ug/m3			06/06/22 13:53	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/06/22 13:53	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/06/22 13:53	1
Bromomethane	0.78	U	0.78		ug/m3			06/06/22 13:53	1
Chloroethane	1.3	U	1.3		ug/m3			06/06/22 13:53	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/06/22 13:53	1
Trichlorofluoromethane	**1.2**		1.1		ug/m3			06/06/22 13:53	1
Freon TF	1.5	U	1.5		ug/m3			06/06/22 13:53	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 13:53	1
Acetone	**49**		12		ug/m3			06/06/22 13:53	1
Isopropyl alcohol	**42**		12		ug/m3			06/06/22 13:53	1
Carbon disulfide	**4.2**		1.6		ug/m3			06/06/22 13:53	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/06/22 13:53	1
Methylene Chloride	**3.1**		1.7		ug/m3			06/06/22 13:53	1
tert-Butyl alcohol	15	U	15		ug/m3			06/06/22 13:53	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/06/22 13:53	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 13:53	1

Client Sample ID: IA-01-053122

Date Collected: 05/31/22 16:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-1

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	**6.3**		1.8		ug/m3			06/06/22 13:53	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 13:53	1
Methyl Ethyl Ketone	**5.7**		1.5		ug/m3			06/06/22 13:53	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 13:53	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/06/22 13:53	1
Chloroform	0.98	U	0.98		ug/m3			06/06/22 13:53	1
Tetrahydrofuran	15	U	15		ug/m3			06/06/22 13:53	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 13:53	1
Cyclohexane	**1.2**		0.69		ug/m3			06/06/22 13:53	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/06/22 13:53	1
2,2,4-Trimethylpentane	**1.7**		0.93		ug/m3			06/06/22 13:53	1
Benzene	**3.6**		0.64		ug/m3			06/06/22 13:53	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 13:53	1
n-Heptane	**2.4**		0.82		ug/m3			06/06/22 13:53	1
Trichloroethene	**2.8**		1.1		ug/m3			06/06/22 13:53	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/06/22 13:53	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/06/22 13:53	1
1,4-Dioxane	18	U	18		ug/m3			06/06/22 13:53	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/06/22 13:53	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 13:53	1
methyl isobutyl ketone	**2.2**		2.0		ug/m3			06/06/22 13:53	1
Toluene	**9.7**		0.75		ug/m3			06/06/22 13:53	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 13:53	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 13:53	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/06/22 13:53	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/06/22 13:53	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/06/22 13:53	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/06/22 13:53	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/06/22 13:53	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/06/22 13:53	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/06/22 13:53	1
Xylene, o-	0.87	U	0.87		ug/m3			06/06/22 13:53	1
Xylene (total)	3.0	U	3.0		ug/m3			06/06/22 13:53	1
Styrene	0.85	U	0.85		ug/m3			06/06/22 13:53	1
Bromoform	2.1	U *1	2.1		ug/m3			06/06/22 13:53	1
Cumene	0.98	U	0.98		ug/m3			06/06/22 13:53	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/06/22 13:53	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/06/22 13:53	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/06/22 13:53	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 13:53	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/06/22 13:53	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 13:53	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 13:53	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 13:53	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/06/22 13:53	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 13:53	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 13:53	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/06/22 13:53	1

Client Sample ID: IA-01-053122

Lab Sample ID: 200-63676-1

Date Collected: 05/31/22 16:15
Matrix: Air
Date Received: 06/04/22 09:35
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
n-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 13:53	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 13:53	1
1,2,4-Trichlorobenzene	3.7	U *1	3.7		ug/m3			06/06/22 13:53	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/06/22 13:53	1
Naphthalene	2.6	U *1	2.6		ug/m3			06/06/22 13:53	1

Client Sample ID: IA-02-053122

Lab Sample ID: 200-63676-2

Date Collected: 05/31/22 16:20
Matrix: Air
Date Received: 06/04/22 09:35
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	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
Freon 22	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Chloromethane	**0.63**		0.50		ppb v/v			06/06/22 14:46	1
n-Butane	**6.8**		0.50		ppb v/v			06/06/22 14:46	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Bromomethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Chloroethane	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Trichlorofluoromethane	**0.23**		0.20		ppb v/v			06/06/22 14:46	1
Freon TF	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Acetone	**15**		5.0		ppb v/v			06/06/22 14:46	1
Isopropyl alcohol	**18**		5.0		ppb v/v			06/06/22 14:46	1
Carbon disulfide	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
Methylene Chloride	**3.2**		0.50		ppb v/v			06/06/22 14:46	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 14:46	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
n-Hexane	**4.6**		0.50		ppb v/v			06/06/22 14:46	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Methyl Ethyl Ketone	**1.3**		0.50		ppb v/v			06/06/22 14:46	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/06/22 14:46	1
Chloroform	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/06/22 14:46	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Cyclohexane	**0.43**		0.20		ppb v/v			06/06/22 14:46	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
2,2,4-Trimethylpentane	**0.51**		0.20		ppb v/v			06/06/22 14:46	1
Benzene	**1.2**		0.20		ppb v/v			06/06/22 14:46	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
n-Heptane	**0.51**		0.20		ppb v/v			06/06/22 14:46	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1

Client Sample ID: IA-02-053122
Date Collected: 05/31/22 16:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-2
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/06/22 14:46	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
methyl isobutyl ketone	**0.81**		0.50		ppb v/v			06/06/22 14:46	1
Toluene	**3.9**		0.20		ppb v/v			06/06/22 14:46	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/06/22 14:46	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Ethylbenzene	**0.39**		0.20		ppb v/v			06/06/22 14:46	1
m,p-Xylene	**1.5**		0.50		ppb v/v			06/06/22 14:46	1
Xylene, o-	**0.54**		0.20		ppb v/v			06/06/22 14:46	1
Xylene (total)	**2.0**		0.70		ppb v/v			06/06/22 14:46	1
Styrene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Bromoform	0.20	U *1	0.20		ppb v/v			06/06/22 14:46	1
Cumene	**0.20**		0.20		ppb v/v			06/06/22 14:46	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,2,4-Trimethylbenzene	**0.56**		0.20		ppb v/v			06/06/22 14:46	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
1,2,4-Trichlorobenzene	0.50	U *1	0.50		ppb v/v			06/06/22 14:46	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/06/22 14:46	1
Naphthalene	0.50	U *1	0.50		ppb v/v			06/06/22 14:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/06/22 14:46	1
Freon 22	1.8	U	1.8		ug/m3			06/06/22 14:46	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/06/22 14:46	1
Chloromethane	**1.3**		1.0		ug/m3			06/06/22 14:46	1
n-Butane	**16**		1.2		ug/m3			06/06/22 14:46	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/06/22 14:46	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/06/22 14:46	1
Bromomethane	0.78	U	0.78		ug/m3			06/06/22 14:46	1
Chloroethane	1.3	U	1.3		ug/m3			06/06/22 14:46	1

Client Sample ID: IA-02-053122

Date Collected: 05/31/22 16:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-2

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/06/22 14:46	1
Trichlorofluoromethane	**1.3**		1.1		ug/m3			06/06/22 14:46	1
Freon TF	1.5	U	1.5		ug/m3			06/06/22 14:46	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 14:46	1
Acetone	**36**		12		ug/m3			06/06/22 14:46	1
Isopropyl alcohol	**43**		12		ug/m3			06/06/22 14:46	1
Carbon disulfide	1.6	U	1.6		ug/m3			06/06/22 14:46	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/06/22 14:46	1
Methylene Chloride	**11**		1.7		ug/m3			06/06/22 14:46	1
tert-Butyl alcohol	15	U	15		ug/m3			06/06/22 14:46	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/06/22 14:46	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 14:46	1
n-Hexane	**16**		1.8		ug/m3			06/06/22 14:46	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 14:46	1
Methyl Ethyl Ketone	**4.0**		1.5		ug/m3			06/06/22 14:46	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 14:46	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/06/22 14:46	1
Chloroform	0.98	U	0.98		ug/m3			06/06/22 14:46	1
Tetrahydrofuran	15	U	15		ug/m3			06/06/22 14:46	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 14:46	1
Cyclohexane	**1.5**		0.69		ug/m3			06/06/22 14:46	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/06/22 14:46	1
2,2,4-Trimethylpentane	**2.4**		0.93		ug/m3			06/06/22 14:46	1
Benzene	**3.7**		0.64		ug/m3			06/06/22 14:46	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 14:46	1
n-Heptane	**2.1**		0.82		ug/m3			06/06/22 14:46	1
Trichloroethene	1.1	U	1.1		ug/m3			06/06/22 14:46	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/06/22 14:46	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/06/22 14:46	1
1,4-Dioxane	18	U	18		ug/m3			06/06/22 14:46	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/06/22 14:46	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 14:46	1
methyl isobutyl ketone	**3.3**		2.0		ug/m3			06/06/22 14:46	1
Toluene	**15**		0.75		ug/m3			06/06/22 14:46	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 14:46	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 14:46	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/06/22 14:46	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/06/22 14:46	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/06/22 14:46	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/06/22 14:46	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/06/22 14:46	1
Ethylbenzene	**1.7**		0.87		ug/m3			06/06/22 14:46	1
m,p-Xylene	**6.4**		2.2		ug/m3			06/06/22 14:46	1
Xylene, o-	**2.3**		0.87		ug/m3			06/06/22 14:46	1
Xylene (total)	**8.9**		3.0		ug/m3			06/06/22 14:46	1
Styrene	0.85	U	0.85		ug/m3			06/06/22 14:46	1
Bromoform	2.1	U *1	2.1		ug/m3			06/06/22 14:46	1
Cumene	**0.98**		0.98		ug/m3			06/06/22 14:46	1

Client Sample ID: IA-02-053122

Lab Sample ID: 200-63676-2

Date Collected: 05/31/22 16:20
Matrix: Air
Date Received: 06/04/22 09:35
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
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/06/22 14:46	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/06/22 14:46	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/06/22 14:46	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 14:46	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/06/22 14:46	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 14:46	1
1,2,4-Trimethylbenzene	**2.7**		0.98		ug/m3			06/06/22 14:46	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 14:46	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/06/22 14:46	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 14:46	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 14:46	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/06/22 14:46	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 14:46	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 14:46	1
1,2,4-Trichlorobenzene	3.7	U *1	3.7		ug/m3			06/06/22 14:46	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/06/22 14:46	1
Naphthalene	2.6	U *1	2.6		ug/m3			06/06/22 14:46	1

Client Sample ID: IA-03-053122

Lab Sample ID: 200-63676-3

Date Collected: 05/31/22 16:13
Matrix: Air
Date Received: 06/04/22 09:35
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	0.50	U	0.50		ppb v/v			06/06/22 15:38	1
Freon 22	**0.50**		0.50		ppb v/v			06/06/22 15:38	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Chloromethane	**0.55**		0.50		ppb v/v			06/06/22 15:38	1
n-Butane	**4.5**		0.50		ppb v/v			06/06/22 15:38	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Bromomethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Chloroethane	0.50	U	0.50		ppb v/v			06/06/22 15:38	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Trichlorofluoromethane	**0.26**		0.20		ppb v/v			06/06/22 15:38	1
Freon TF	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Acetone	**14**		5.0		ppb v/v			06/06/22 15:38	1
Isopropyl alcohol	**15**		5.0		ppb v/v			06/06/22 15:38	1
Carbon disulfide	0.50	U	0.50		ppb v/v			06/06/22 15:38	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/06/22 15:38	1
Methylene Chloride	**7.1**		0.50		ppb v/v			06/06/22 15:38	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 15:38	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
n-Hexane	**9.3**		0.50		ppb v/v			06/06/22 15:38	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Methyl Ethyl Ketone	**1.5**		0.50		ppb v/v			06/06/22 15:38	1

Client Sample ID: IA-03-053122

Date Collected: 05/31/22 16:13
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-3

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/06/22 15:38	1
Chloroform	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/06/22 15:38	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Cyclohexane	**0.62**		0.20		ppb v/v			06/06/22 15:38	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
2,2,4-Trimethylpentane	**0.36**		0.20		ppb v/v			06/06/22 15:38	1
Benzene	**0.83**		0.20		ppb v/v			06/06/22 15:38	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
n-Heptane	**0.44**		0.20		ppb v/v			06/06/22 15:38	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/06/22 15:38	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/06/22 15:38	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
methyl isobutyl ketone	**0.81**		0.50		ppb v/v			06/06/22 15:38	1
Toluene	**3.0**		0.20		ppb v/v			06/06/22 15:38	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/06/22 15:38	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Ethylbenzene	**0.26**		0.20		ppb v/v			06/06/22 15:38	1
m,p-Xylene	**0.91**		0.50		ppb v/v			06/06/22 15:38	1
Xylene, o-	**0.28**		0.20		ppb v/v			06/06/22 15:38	1
Xylene (total)	**1.2**		0.70		ppb v/v			06/06/22 15:38	1
Styrene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Bromoform	0.20	U *1	0.20		ppb v/v			06/06/22 15:38	1
Cumene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
1,2,4-Trichlorobenzene	0.50	U *1	0.50		ppb v/v			06/06/22 15:38	1

Client Sample ID: IA-03-053122

Date Collected: 05/31/22 16:13
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-3

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/06/22 15:38	1
Naphthalene	0.50	U *1	0.50		ppb v/v			06/06/22 15:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/06/22 15:38	1
Freon 22	**1.8**		1.8		ug/m3			06/06/22 15:38	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/06/22 15:38	1
Chloromethane	**1.1**		1.0		ug/m3			06/06/22 15:38	1
n-Butane	**11**		1.2		ug/m3			06/06/22 15:38	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/06/22 15:38	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/06/22 15:38	1
Bromomethane	0.78	U	0.78		ug/m3			06/06/22 15:38	1
Chloroethane	1.3	U	1.3		ug/m3			06/06/22 15:38	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/06/22 15:38	1
Trichlorofluoromethane	**1.5**		1.1		ug/m3			06/06/22 15:38	1
Freon TF	1.5	U	1.5		ug/m3			06/06/22 15:38	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 15:38	1
Acetone	**33**		12		ug/m3			06/06/22 15:38	1
Isopropyl alcohol	**38**		12		ug/m3			06/06/22 15:38	1
Carbon disulfide	1.6	U	1.6		ug/m3			06/06/22 15:38	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/06/22 15:38	1
Methylene Chloride	**25**		1.7		ug/m3			06/06/22 15:38	1
tert-Butyl alcohol	15	U	15		ug/m3			06/06/22 15:38	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/06/22 15:38	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 15:38	1
n-Hexane	**33**		1.8		ug/m3			06/06/22 15:38	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 15:38	1
Methyl Ethyl Ketone	**4.3**		1.5		ug/m3			06/06/22 15:38	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 15:38	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/06/22 15:38	1
Chloroform	0.98	U	0.98		ug/m3			06/06/22 15:38	1
Tetrahydrofuran	15	U	15		ug/m3			06/06/22 15:38	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 15:38	1
Cyclohexane	**2.1**		0.69		ug/m3			06/06/22 15:38	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/06/22 15:38	1
2,2,4-Trimethylpentane	**1.7**		0.93		ug/m3			06/06/22 15:38	1
Benzene	**2.6**		0.64		ug/m3			06/06/22 15:38	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 15:38	1
n-Heptane	**1.8**		0.82		ug/m3			06/06/22 15:38	1
Trichloroethene	1.1	U	1.1		ug/m3			06/06/22 15:38	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/06/22 15:38	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/06/22 15:38	1
1,4-Dioxane	18	U	18		ug/m3			06/06/22 15:38	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/06/22 15:38	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 15:38	1
methyl isobutyl ketone	**3.3**		2.0		ug/m3			06/06/22 15:38	1
Toluene	**11**		0.75		ug/m3			06/06/22 15:38	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 15:38	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 15:38	1

Client Sample ID: IA-03-053122

Lab Sample ID: 200-63676-3

Date Collected: 05/31/22 16:13
Matrix: Air
Date Received: 06/04/22 09:35
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
Tetrachloroethene	1.4	U	1.4		ug/m3			06/06/22 15:38	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/06/22 15:38	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/06/22 15:38	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/06/22 15:38	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/06/22 15:38	1
Ethylbenzene	**1.1**		0.87		ug/m3			06/06/22 15:38	1
m,p-Xylene	**3.9**		2.2		ug/m3			06/06/22 15:38	1
Xylene, o-	**1.2**		0.87		ug/m3			06/06/22 15:38	1
Xylene (total)	**5.2**		3.0		ug/m3			06/06/22 15:38	1
Styrene	0.85	U	0.85		ug/m3			06/06/22 15:38	1
Bromoform	2.1	U *1	2.1		ug/m3			06/06/22 15:38	1
Cumene	0.98	U	0.98		ug/m3			06/06/22 15:38	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/06/22 15:38	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/06/22 15:38	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/06/22 15:38	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 15:38	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/06/22 15:38	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 15:38	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 15:38	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 15:38	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/06/22 15:38	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 15:38	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 15:38	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/06/22 15:38	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 15:38	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 15:38	1
1,2,4-Trichlorobenzene	3.7	U *1	3.7		ug/m3			06/06/22 15:38	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/06/22 15:38	1
Naphthalene	2.6	U *1	2.6		ug/m3			06/06/22 15:38	1

Client Sample ID: IA-04-053122

Lab Sample ID: 200-63676-4

Date Collected: 05/31/22 16:10
Matrix: Air
Date Received: 06/04/22 09:35
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	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
Freon 22	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Chloromethane	**0.59**		0.50		ppb v/v			06/06/22 16:31	1
n-Butane	**1.6**		0.50		ppb v/v			06/06/22 16:31	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Bromomethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Chloroethane	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Trichlorofluoromethane	**0.27**		0.20		ppb v/v			06/06/22 16:31	1
Freon TF	0.20	U	0.20		ppb v/v			06/06/22 16:31	1

Client Sample ID: IA-04-053122

Date Collected: 05/31/22 16:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-4

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-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Acetone	**8.6**		5.0		ppb v/v			06/06/22 16:31	1
Isopropyl alcohol	**14**		5.0		ppb v/v			06/06/22 16:31	1
Carbon disulfide	**0.59**		0.50		ppb v/v			06/06/22 16:31	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
Methylene Chloride	**7.1**		0.50		ppb v/v			06/06/22 16:31	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 16:31	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
n-Hexane	**8.4**		0.50		ppb v/v			06/06/22 16:31	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Methyl Ethyl Ketone	**0.66**		0.50		ppb v/v			06/06/22 16:31	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/06/22 16:31	1
Chloroform	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/06/22 16:31	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Cyclohexane	**0.45**		0.20		ppb v/v			06/06/22 16:31	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
2,2,4-Trimethylpentane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Benzene	**0.21**		0.20		ppb v/v			06/06/22 16:31	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
n-Heptane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/06/22 16:31	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
Toluene	**0.73**		0.20		ppb v/v			06/06/22 16:31	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/06/22 16:31	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/06/22 16:31	1
Styrene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Bromoform	0.20	U *1	0.20		ppb v/v			06/06/22 16:31	1
Cumene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1

Client Sample ID: IA-04-053122
Date Collected: 05/31/22 16:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-4
Matrix: Air

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	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
1,2,4-Trichlorobenzene	0.50	U *1	0.50		ppb v/v			06/06/22 16:31	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/06/22 16:31	1
Naphthalene	0.50	U *1	0.50		ppb v/v			06/06/22 16:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/06/22 16:31	1
Freon 22	1.8	U	1.8		ug/m3			06/06/22 16:31	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/06/22 16:31	1
Chloromethane	**1.2**		1.0		ug/m3			06/06/22 16:31	1
n-Butane	**3.9**		1.2		ug/m3			06/06/22 16:31	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/06/22 16:31	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/06/22 16:31	1
Bromomethane	0.78	U	0.78		ug/m3			06/06/22 16:31	1
Chloroethane	1.3	U	1.3		ug/m3			06/06/22 16:31	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/06/22 16:31	1
Trichlorofluoromethane	**1.5**		1.1		ug/m3			06/06/22 16:31	1
Freon TF	1.5	U	1.5		ug/m3			06/06/22 16:31	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 16:31	1
Acetone	**20**		12		ug/m3			06/06/22 16:31	1
Isopropyl alcohol	**34**		12		ug/m3			06/06/22 16:31	1
Carbon disulfide	**1.8**		1.6		ug/m3			06/06/22 16:31	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/06/22 16:31	1
Methylene Chloride	**24**		1.7		ug/m3			06/06/22 16:31	1
tert-Butyl alcohol	15	U	15		ug/m3			06/06/22 16:31	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/06/22 16:31	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 16:31	1
n-Hexane	**30**		1.8		ug/m3			06/06/22 16:31	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 16:31	1
Methyl Ethyl Ketone	**1.9**		1.5		ug/m3			06/06/22 16:31	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 16:31	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/06/22 16:31	1
Chloroform	0.98	U	0.98		ug/m3			06/06/22 16:31	1
Tetrahydrofuran	15	U	15		ug/m3			06/06/22 16:31	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 16:31	1
Cyclohexane	**1.5**		0.69		ug/m3			06/06/22 16:31	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/06/22 16:31	1
2,2,4-Trimethylpentane	0.93	U	0.93		ug/m3			06/06/22 16:31	1
Benzene	**0.66**		0.64		ug/m3			06/06/22 16:31	1

Client Sample ID: IA-04-053122

Date Collected: 05/31/22 16:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-4

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-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 16:31	1
n-Heptane	0.82	U	0.82		ug/m3			06/06/22 16:31	1
Trichloroethene	1.1	U	1.1		ug/m3			06/06/22 16:31	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/06/22 16:31	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/06/22 16:31	1
1,4-Dioxane	18	U	18		ug/m3			06/06/22 16:31	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/06/22 16:31	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 16:31	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/06/22 16:31	1
Toluene	**2.8**		0.75		ug/m3			06/06/22 16:31	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 16:31	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 16:31	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/06/22 16:31	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/06/22 16:31	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/06/22 16:31	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/06/22 16:31	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/06/22 16:31	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/06/22 16:31	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/06/22 16:31	1
Xylene, o-	0.87	U	0.87		ug/m3			06/06/22 16:31	1
Xylene (total)	3.0	U	3.0		ug/m3			06/06/22 16:31	1
Styrene	0.85	U	0.85		ug/m3			06/06/22 16:31	1
Bromoform	2.1	U *1	2.1		ug/m3			06/06/22 16:31	1
Cumene	0.98	U	0.98		ug/m3			06/06/22 16:31	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/06/22 16:31	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/06/22 16:31	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/06/22 16:31	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 16:31	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/06/22 16:31	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 16:31	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 16:31	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 16:31	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/06/22 16:31	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 16:31	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 16:31	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/06/22 16:31	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 16:31	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 16:31	1
1,2,4-Trichlorobenzene	3.7	U *1	3.7		ug/m3			06/06/22 16:31	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/06/22 16:31	1
Naphthalene	2.6	U *1	2.6		ug/m3			06/06/22 16:31	1

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Client Sample ID: AA-01-053122
Date Collected: 05/31/22 16:00
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-5
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
Freon 22	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Chloromethane	**0.58**		0.50		ppb v/v			06/06/22 17:23	1
n-Butane	**1.7**		0.50		ppb v/v			06/06/22 17:23	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Bromomethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Chloroethane	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Trichlorofluoromethane	**0.21**		0.20		ppb v/v			06/06/22 17:23	1
Freon TF	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Acetone	**6.7**		5.0		ppb v/v			06/06/22 17:23	1
Isopropyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 17:23	1
Carbon disulfide	**2.7**		0.50		ppb v/v			06/06/22 17:23	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
Methylene Chloride	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 17:23	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
n-Hexane	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Methyl Ethyl Ketone	**0.62**		0.50		ppb v/v			06/06/22 17:23	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/06/22 17:23	1
Chloroform	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/06/22 17:23	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Cyclohexane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
2,2,4-Trimethylpentane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Benzene	**0.42**		0.20		ppb v/v			06/06/22 17:23	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
n-Heptane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/06/22 17:23	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
Toluene	**0.81**		0.20		ppb v/v			06/06/22 17:23	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Tetrachloroethene	**0.40**		0.20		ppb v/v			06/06/22 17:23	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1

Client Sample ID: AA-01-053122

Date Collected: 05/31/22 16:00
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-5

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			06/06/22 17:23	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/06/22 17:23	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/06/22 17:23	1
Styrene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Bromoform	0.20	U *1	0.20		ppb v/v			06/06/22 17:23	1
Cumene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
1,2,4-Trichlorobenzene	0.50	U *1	0.50		ppb v/v			06/06/22 17:23	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/06/22 17:23	1
Naphthalene	0.50	U *1	0.50		ppb v/v			06/06/22 17:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/06/22 17:23	1
Freon 22	1.8	U	1.8		ug/m3			06/06/22 17:23	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/06/22 17:23	1
Chloromethane	**1.2**		1.0		ug/m3			06/06/22 17:23	1
n-Butane	**3.9**		1.2		ug/m3			06/06/22 17:23	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/06/22 17:23	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/06/22 17:23	1
Bromomethane	0.78	U	0.78		ug/m3			06/06/22 17:23	1
Chloroethane	1.3	U	1.3		ug/m3			06/06/22 17:23	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/06/22 17:23	1
Trichlorofluoromethane	**1.2**		1.1		ug/m3			06/06/22 17:23	1
Freon TF	1.5	U	1.5		ug/m3			06/06/22 17:23	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 17:23	1
Acetone	**16**		12		ug/m3			06/06/22 17:23	1
Isopropyl alcohol	12	U	12		ug/m3			06/06/22 17:23	1
Carbon disulfide	**8.3**		1.6		ug/m3			06/06/22 17:23	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/06/22 17:23	1
Methylene Chloride	1.7	U	1.7		ug/m3			06/06/22 17:23	1
tert-Butyl alcohol	15	U	15		ug/m3			06/06/22 17:23	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/06/22 17:23	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 17:23	1

Client Sample ID: AA-01-053122

Date Collected: 05/31/22 16:00
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-5

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	1.8	U	1.8		ug/m3			06/06/22 17:23	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 17:23	1
Methyl Ethyl Ketone	**1.8**		1.5		ug/m3			06/06/22 17:23	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 17:23	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/06/22 17:23	1
Chloroform	0.98	U	0.98		ug/m3			06/06/22 17:23	1
Tetrahydrofuran	15	U	15		ug/m3			06/06/22 17:23	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 17:23	1
Cyclohexane	0.69	U	0.69		ug/m3			06/06/22 17:23	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/06/22 17:23	1
2,2,4-Trimethylpentane	0.93	U	0.93		ug/m3			06/06/22 17:23	1
Benzene	**1.3**		0.64		ug/m3			06/06/22 17:23	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 17:23	1
n-Heptane	0.82	U	0.82		ug/m3			06/06/22 17:23	1
Trichloroethene	1.1	U	1.1		ug/m3			06/06/22 17:23	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/06/22 17:23	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/06/22 17:23	1
1,4-Dioxane	18	U	18		ug/m3			06/06/22 17:23	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/06/22 17:23	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 17:23	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/06/22 17:23	1
Toluene	**3.1**		0.75		ug/m3			06/06/22 17:23	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 17:23	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 17:23	1
Tetrachloroethene	**2.7**		1.4		ug/m3			06/06/22 17:23	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/06/22 17:23	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/06/22 17:23	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/06/22 17:23	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/06/22 17:23	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/06/22 17:23	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/06/22 17:23	1
Xylene, o-	0.87	U	0.87		ug/m3			06/06/22 17:23	1
Xylene (total)	3.0	U	3.0		ug/m3			06/06/22 17:23	1
Styrene	0.85	U	0.85		ug/m3			06/06/22 17:23	1
Bromoform	2.1	U *1	2.1		ug/m3			06/06/22 17:23	1
Cumene	0.98	U	0.98		ug/m3			06/06/22 17:23	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/06/22 17:23	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/06/22 17:23	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/06/22 17:23	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 17:23	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/06/22 17:23	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 17:23	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 17:23	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 17:23	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/06/22 17:23	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 17:23	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 17:23	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/06/22 17:23	1

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Client Sample ID: AA-01-053122
Date Collected: 05/31/22 16:00
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63676-5
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 17:23	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 17:23	1
1,2,4-Trichlorobenzene	3.7	U *1	3.7		ug/m3			06/06/22 17:23	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/06/22 17:23	1
Naphthalene	2.6	U *1	2.6		ug/m3			06/06/22 17:23	1

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

Lab Sample ID: MB 200-180517/5
Matrix: Air
Analysis Batch: 180517

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			06/06/22 11:00	1
Freon 22	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Chloromethane	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
n-Butane	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Bromomethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Chloroethane	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Trichlorofluoromethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Freon TF	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Acetone	5.0	U	5.0		ppb v/v			06/06/22 11:00	1
Isopropyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 11:00	1
Carbon disulfide	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Methylene Chloride	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/06/22 11:00	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
n-Hexane	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Methyl Ethyl Ketone	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/06/22 11:00	1
Chloroform	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/06/22 11:00	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Cyclohexane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
2,2,4-Trimethylpentane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Benzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
n-Heptane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/06/22 11:00	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Toluene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1

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

Lab Sample ID: MB 200-180517/5
Matrix: Air
Analysis Batch: 180517

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			06/06/22 11:00	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/06/22 11:00	1
Styrene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Bromoform	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Cumene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ppb v/v			06/06/22 11:00	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/06/22 11:00	1
Naphthalene	0.50	U	0.50		ppb v/v			06/06/22 11:00	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/06/22 11:00	1
Freon 22	1.8	U	1.8		ug/m3			06/06/22 11:00	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/06/22 11:00	1
Chloromethane	1.0	U	1.0		ug/m3			06/06/22 11:00	1
n-Butane	1.2	U	1.2		ug/m3			06/06/22 11:00	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/06/22 11:00	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/06/22 11:00	1
Bromomethane	0.78	U	0.78		ug/m3			06/06/22 11:00	1
Chloroethane	1.3	U	1.3		ug/m3			06/06/22 11:00	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/06/22 11:00	1
Trichlorofluoromethane	1.1	U	1.1		ug/m3			06/06/22 11:00	1
Freon TF	1.5	U	1.5		ug/m3			06/06/22 11:00	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 11:00	1
Acetone	12	U	12		ug/m3			06/06/22 11:00	1
Isopropyl alcohol	12	U	12		ug/m3			06/06/22 11:00	1
Carbon disulfide	1.6	U	1.6		ug/m3			06/06/22 11:00	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/06/22 11:00	1
Methylene Chloride	1.7	U	1.7		ug/m3			06/06/22 11:00	1
tert-Butyl alcohol	15	U	15		ug/m3			06/06/22 11:00	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/06/22 11:00	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 11:00	1

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

Lab Sample ID: MB 200-180517/5
Matrix: Air
Analysis Batch: 180517

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	1.8	U	1.8		ug/m3			06/06/22 11:00	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 11:00	1
Methyl Ethyl Ketone	1.5	U	1.5		ug/m3			06/06/22 11:00	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/06/22 11:00	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/06/22 11:00	1
Chloroform	0.98	U	0.98		ug/m3			06/06/22 11:00	1
Tetrahydrofuran	15	U	15		ug/m3			06/06/22 11:00	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 11:00	1
Cyclohexane	0.69	U	0.69		ug/m3			06/06/22 11:00	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/06/22 11:00	1
2,2,4-Trimethylpentane	0.93	U	0.93		ug/m3			06/06/22 11:00	1
Benzene	0.64	U	0.64		ug/m3			06/06/22 11:00	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/06/22 11:00	1
n-Heptane	0.82	U	0.82		ug/m3			06/06/22 11:00	1
Trichloroethene	1.1	U	1.1		ug/m3			06/06/22 11:00	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/06/22 11:00	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/06/22 11:00	1
1,4-Dioxane	18	U	18		ug/m3			06/06/22 11:00	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/06/22 11:00	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 11:00	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/06/22 11:00	1
Toluene	0.75	U	0.75		ug/m3			06/06/22 11:00	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/06/22 11:00	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/06/22 11:00	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/06/22 11:00	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/06/22 11:00	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/06/22 11:00	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/06/22 11:00	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/06/22 11:00	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/06/22 11:00	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/06/22 11:00	1
Xylene, o-	0.87	U	0.87		ug/m3			06/06/22 11:00	1
Xylene (total)	3.0	U	3.0		ug/m3			06/06/22 11:00	1
Styrene	0.85	U	0.85		ug/m3			06/06/22 11:00	1
Bromoform	2.1	U	2.1		ug/m3			06/06/22 11:00	1
Cumene	0.98	U	0.98		ug/m3			06/06/22 11:00	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/06/22 11:00	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/06/22 11:00	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/06/22 11:00	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 11:00	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/06/22 11:00	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 11:00	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/06/22 11:00	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 11:00	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/06/22 11:00	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 11:00	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/06/22 11:00	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/06/22 11:00	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/06/22 11:00	1

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

Lab Sample ID: MB 200-180517/5
Matrix: Air
Analysis Batch: 180517

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			06/06/22 11:00	1
1,2,4-Trichlorobenzene	3.7	U	3.7		ug/m3			06/06/22 11:00	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/06/22 11:00	1
Naphthalene	2.6	U	2.6		ug/m3			06/06/22 11:00	1

Lab Sample ID: LCS 200-180517/3
Matrix: Air
Analysis Batch: 180517

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	61 - 142
Freon 22	10.0	11.1		ppb v/v		111	60 - 147
1,2-Dichlorotetrafluoroethane	10.0	10.8		ppb v/v		108	71 - 141
Chloromethane	10.0	10.9		ppb v/v		109	56 - 141
n-Butane	10.0	8.79		ppb v/v		88	53 - 151
Vinyl chloride	10.0	9.02		ppb v/v		90	61 - 135
1,3-Butadiene	10.0	8.43		ppb v/v		84	58 - 139
Bromomethane	10.0	10.3		ppb v/v		104	72 - 124
Chloroethane	10.0	10.3		ppb v/v		103	68 - 130
Bromoethene(Vinyl Bromide)	10.0	10.1		ppb v/v		101	75 - 125
Trichlorofluoromethane	10.0	10.9		ppb v/v		109	70 - 129
Freon TF	10.0	10.3		ppb v/v		103	70 - 121
1,1-Dichloroethene	10.0	9.44		ppb v/v		94	68 - 120
Acetone	10.0	10.1		ppb v/v		101	54 - 154
Isopropyl alcohol	10.0	9.62		ppb v/v		96	53 - 142
Carbon disulfide	10.0	9.53		ppb v/v		95	71 - 138
3-Chloropropene	10.0	10.0		ppb v/v		100	50 - 150
Methylene Chloride	10.0	9.73		ppb v/v		97	59 - 137
tert-Butyl alcohol	10.0	10.2		ppb v/v		102	66 - 132
Methyl tert-butyl ether	10.0	10.5		ppb v/v		105	70 - 127
trans-1,2-Dichloroethene	10.0	9.97		ppb v/v		100	69 - 137
n-Hexane	10.0	9.49		ppb v/v		95	63 - 138
1,1-Dichloroethane	10.0	10.0		ppb v/v		100	66 - 130
Methyl Ethyl Ketone	10.0	9.51		ppb v/v		95	72 - 124
cis-1,2-Dichloroethene	10.0	9.56		ppb v/v		96	72 - 121
Chloroform	10.0	10.4		ppb v/v		105	73 - 124
Tetrahydrofuran	10.0	9.06		ppb v/v		91	60 - 149
1,1,1-Trichloroethane	10.0	10.4		ppb v/v		104	72 - 127
Cyclohexane	10.0	9.49		ppb v/v		95	76 - 124
Carbon tetrachloride	10.0	10.5		ppb v/v		105	71 - 133
2,2,4-Trimethylpentane	10.0	9.30		ppb v/v		93	68 - 131
Benzene	10.0	9.42		ppb v/v		94	73 - 119
1,2-Dichloroethane	10.0	10.7		ppb v/v		107	68 - 135
n-Heptane	10.0	9.25		ppb v/v		92	60 - 142
Trichloroethene	10.0	9.62		ppb v/v		96	73 - 122
Methyl methacrylate	10.0	9.97		ppb v/v		100	73 - 129
1,2-Dichloropropane	10.0	9.30		ppb v/v		93	69 - 128
1,4-Dioxane	10.0	10.0		ppb v/v		100	66 - 129
Bromodichloromethane	10.0	10.5		ppb v/v		105	75 - 127

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

Lab Sample ID: LCS 200-180517/3
Matrix: Air
Analysis Batch: 180517

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	10.0	10.0		ppb v/v		100	74 - 125
methyl isobutyl ketone	10.0	10.1		ppb v/v		101	58 - 144
Toluene	10.0	9.66		ppb v/v		97	75 - 122
trans-1,3-Dichloropropene	10.0	10.6		ppb v/v		106	74 - 128
1,1,2-Trichloroethane	10.0	9.70		ppb v/v		97	75 - 126
Tetrachloroethene	10.0	10.1		ppb v/v		101	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10.0	10.5		ppb v/v		105	57 - 143
Dibromochloromethane	10.0	11.1		ppb v/v		111	73 - 125
1,2-Dibromoethane	10.0	10.3		ppb v/v		103	78 - 122
Chlorobenzene	10.0	9.92		ppb v/v		99	76 - 119
Ethylbenzene	10.0	10.4		ppb v/v		104	74 - 122
m,p-Xylene	20.0	22.4		ppb v/v		112	76 - 121
Xylene, o-	10.0	10.3		ppb v/v		103	73 - 123
Styrene	10.0	11.0		ppb v/v		110	74 - 125
Bromoform	10.0	13.3		ppb v/v		133	53 - 149
Cumene	10.0	10.5		ppb v/v		105	73 - 123
1,1,2,2-Tetrachloroethane	10.0	10.3		ppb v/v		103	74 - 126
n-Propylbenzene	10.0	10.7		ppb v/v		107	73 - 127
4-Ethyltoluene	10.0	10.9		ppb v/v		109	75 - 129
1,3,5-Trimethylbenzene	10.0	10.9		ppb v/v		109	72 - 126
2-Chlorotoluene	10.0	10.5		ppb v/v		105	74 - 126
tert-Butylbenzene	10.0	10.6		ppb v/v		106	71 - 125
1,2,4-Trimethylbenzene	10.0	11.1		ppb v/v		111	71 - 129
sec-Butylbenzene	10.0	10.7		ppb v/v		107	70 - 128
4-Isopropyltoluene	10.0	11.1		ppb v/v		111	68 - 130
1,3-Dichlorobenzene	10.0	11.1		ppb v/v		111	69 - 131
1,4-Dichlorobenzene	10.0	11.1		ppb v/v		112	67 - 132
Benzyl chloride	10.0	11.2		ppb v/v		112	60 - 136
n-Butylbenzene	10.0	11.6		ppb v/v		116	65 - 137
1,2-Dichlorobenzene	10.0	11.0		ppb v/v		111	68 - 129
1,2,4-Trichlorobenzene	10.0	9.91		ppb v/v		99	50 - 150
Hexachlorobutadiene	10.0	10.3		ppb v/v		103	58 - 130
Naphthalene	10.0	9.70		ppb v/v		97	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49	56.4		ug/m3		114	61 - 142
Freon 22	35	39.4		ug/m3		111	60 - 147
1,2-Dichlorotetrafluoroethane	70	75.3		ug/m3		108	71 - 141
Chloromethane	21	22.6		ug/m3		109	56 - 141
n-Butane	24	20.9		ug/m3		88	53 - 151
Vinyl chloride	26	23.1		ug/m3		90	61 - 135
1,3-Butadiene	22	18.6		ug/m3		84	58 - 139
Bromomethane	39	40.2		ug/m3		104	72 - 124
Chloroethane	26	27.2		ug/m3		103	68 - 130
Bromoethene(Vinyl Bromide)	44	44.3		ug/m3		101	75 - 125
Trichlorofluoromethane	56	61.5		ug/m3		109	70 - 129
Freon TF	77	78.7		ug/m3		103	70 - 121
1,1-Dichloroethene	40	37.4		ug/m3		94	68 - 120

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

Lab Sample ID: LCS 200-180517/3
Matrix: Air
Analysis Batch: 180517

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	24	24.0		ug/m3		101	54 - 154
Isopropyl alcohol	25	23.7		ug/m3		96	53 - 142
Carbon disulfide	31	29.7		ug/m3		95	71 - 138
3-Chloropropene	31	31.4		ug/m3		100	50 - 150
Methylene Chloride	35	33.8		ug/m3		97	59 - 137
tert-Butyl alcohol	30	31.0		ug/m3		102	66 - 132
Methyl tert-butyl ether	36	38.0		ug/m3		105	70 - 127
trans-1,2-Dichloroethene	40	39.5		ug/m3		100	69 - 137
n-Hexane	35	33.4		ug/m3		95	63 - 138
1,1-Dichloroethane	40	40.5		ug/m3		100	66 - 130
Methyl Ethyl Ketone	29	28.0		ug/m3		95	72 - 124
cis-1,2-Dichloroethene	40	37.9		ug/m3		96	72 - 121
Chloroform	49	51.0		ug/m3		105	73 - 124
Tetrahydrofuran	29	26.7		ug/m3		91	60 - 149
1,1,1-Trichloroethane	55	56.6		ug/m3		104	72 - 127
Cyclohexane	34	32.7		ug/m3		95	76 - 124
Carbon tetrachloride	63	66.3		ug/m3		105	71 - 133
2,2,4-Trimethylpentane	47	43.5		ug/m3		93	68 - 131
Benzene	32	30.1		ug/m3		94	73 - 119
1,2-Dichloroethane	40	43.2		ug/m3		107	68 - 135
n-Heptane	41	37.9		ug/m3		92	60 - 142
Trichloroethene	54	51.7		ug/m3		96	73 - 122
Methyl methacrylate	41	40.8		ug/m3		100	73 - 129
1,2-Dichloropropane	46	43.0		ug/m3		93	69 - 128
1,4-Dioxane	36	36.1		ug/m3		100	66 - 129
Bromodichloromethane	67	70.4		ug/m3		105	75 - 127
cis-1,3-Dichloropropene	45	45.6		ug/m3		100	74 - 125
methyl isobutyl ketone	41	41.3		ug/m3		101	58 - 144
Toluene	38	36.4		ug/m3		97	75 - 122
trans-1,3-Dichloropropene	45	47.9		ug/m3		106	74 - 128
1,1,2-Trichloroethane	55	52.9		ug/m3		97	75 - 126
Tetrachloroethene	68	68.4		ug/m3		101	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41	43.0		ug/m3		105	57 - 143
Dibromochloromethane	85	94.5		ug/m3		111	73 - 125
1,2-Dibromoethane	77	79.2		ug/m3		103	78 - 122
Chlorobenzene	46	45.6		ug/m3		99	76 - 119
Ethylbenzene	43	45.0		ug/m3		104	74 - 122
m,p-Xylene	87	97.2		ug/m3		112	76 - 121
Xylene, o-	43	44.9		ug/m3		103	73 - 123
Styrene	43	46.8		ug/m3		110	74 - 125
Bromoform	100	138		ug/m3		133	53 - 149
Cumene	49	51.8		ug/m3		105	73 - 123
1,1,2,2-Tetrachloroethane	69	70.5		ug/m3		103	74 - 126
n-Propylbenzene	49	52.4		ug/m3		107	73 - 127
4-Ethyltoluene	49	53.6		ug/m3		109	75 - 129
1,3,5-Trimethylbenzene	49	53.5		ug/m3		109	72 - 126
2-Chlorotoluene	52	54.5		ug/m3		105	74 - 126
tert-Butylbenzene	55	58.1		ug/m3		106	71 - 125

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

Lab Sample ID: LCS 200-180517/3
Matrix: Air
Analysis Batch: 180517

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-Trimethylbenzene	49	54.5		ug/m3		111	71 - 129
sec-Butylbenzene	55	58.6		ug/m3		107	70 - 128
4-Isopropyltoluene	55	60.9		ug/m3		111	68 - 130
1,3-Dichlorobenzene	60	66.6		ug/m3		111	69 - 131
1,4-Dichlorobenzene	60	67.0		ug/m3		112	67 - 132
Benzyl chloride	52	57.8		ug/m3		112	60 - 136
n-Butylbenzene	55	63.6		ug/m3		116	65 - 137
1,2-Dichlorobenzene	60	66.4		ug/m3		111	68 - 129
1,2,4-Trichlorobenzene	74	73.5		ug/m3		99	50 - 150
Hexachlorobutadiene	110	110		ug/m3		103	58 - 130
Naphthalene	52	50.8		ug/m3		97	50 - 150

QC Association Summary

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Air - GC/MS VOA

Analysis Batch: 180517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-63676-1	IA-01-053122	Total/NA	Air	TO-15	
200-63676-2	IA-02-053122	Total/NA	Air	TO-15	
200-63676-3	IA-03-053122	Total/NA	Air	TO-15	
200-63676-4	IA-04-053122	Total/NA	Air	TO-15	
200-63676-5	AA-01-053122	Total/NA	Air	TO-15	
MB 200-180517/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-180517/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Client Sample ID: IA-01-053122
Date Collected: 05/31/22 16:15
Date Received: 06/04/22 09:35

Lab Sample ID: 200-63676-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	180517	06/06/22 13:53	K1P	TAL BUR

Client Sample ID: IA-02-053122
Date Collected: 05/31/22 16:20
Date Received: 06/04/22 09:35

Lab Sample ID: 200-63676-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	180517	06/06/22 14:46	K1P	TAL BUR

Client Sample ID: IA-03-053122
Date Collected: 05/31/22 16:13
Date Received: 06/04/22 09:35

Lab Sample ID: 200-63676-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	180517	06/06/22 15:38	K1P	TAL BUR

Client Sample ID: IA-04-053122
Date Collected: 05/31/22 16:10
Date Received: 06/04/22 09:35

Lab Sample ID: 200-63676-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	180517	06/06/22 16:31	K1P	TAL BUR

Client Sample ID: AA-01-053122
Date Collected: 05/31/22 16:00
Date Received: 06/04/22 09:35

Lab Sample ID: 200-63676-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	180517	06/06/22 17:23	K1P	TAL BUR

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,2-Dichloroethene, Total
TO-15		Air	1,4-Dioxane
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Freon 22
TO-15		Air	m,p-Xylene
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: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

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 = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AECOM
Project/Site: HUB Building - Long Island

Job ID: 200-63676-1
SDG: 200-63676-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-63676-1	IA-01-053122	Air	05/31/22 16:15	06/04/22 09:35	Air Canister (6-Liter) #5460
200-63676-2	IA-02-053122	Air	05/31/22 16:20	06/04/22 09:35	Air Canister (6-Liter) #4288
200-63676-3	IA-03-053122	Air	05/31/22 16:13	06/04/22 09:35	Air Canister (6-Liter) #4287
200-63676-4	IA-04-053122	Air	05/31/22 16:10	06/04/22 09:35	Air Canister (6-Liter) #3437
200-63676-5	AA-01-053122	Air	05/31/22 16:00	06/04/22 09:35	Air Canister (6-Liter) #5135

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-63676	06/04/22	13:00	29.4	21	6210	JPB

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		N o	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		N o	
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
200-63676-A-1	5460	-9.5	N	3857	90/21	Y	5460-50393	
200-63676-A-2	4288	-8.2	N	5005	90/21	Y	4288-50352	
200-63676-A-3	4287	-5.8	N	4043	90/21	Y	4287-50413	
200-63676-A-4	3437	-3.8	N	4007	90/21	Y	3437-50392	
200-63676-A-5	5135	0.0	*N	5211	90/28	Y	5135-50554	*100 mL/min FC

[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

Eurofins 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

200-63676 Chain of Custody

TestAmerica Laboratories,

Client Contact Information	**Client Project Manager: Christine Wagner**	**Samples Collected By:** Jay Patel
Company Name **AECOM**	**Phone:**973-883-8694	
Address **1255 Broad Street**	**Email:**christine wagner@aecom com	
City/State/Zip **Clifton, NJ 07043**		
Phone 973-883-8500	**Site Contact:** Jay Patel	
FAX.	**Tel/Fax:** 201-757-2958	
Project Name **HUB Building - Long Island City**	**Analysis Turnaround Time**	
Site/Location **47-25 34th Street, Long Island City, NY**	Standard (Specific) ____X____	
P O #	Rush (Specifiy) _____	

COC No
___1___ of ___1___ COCs
TALS Project #:
For Lab Use Only:
Walk-in Client
Lab Sampling
Job / SDG No
(See below for Add'l Items)

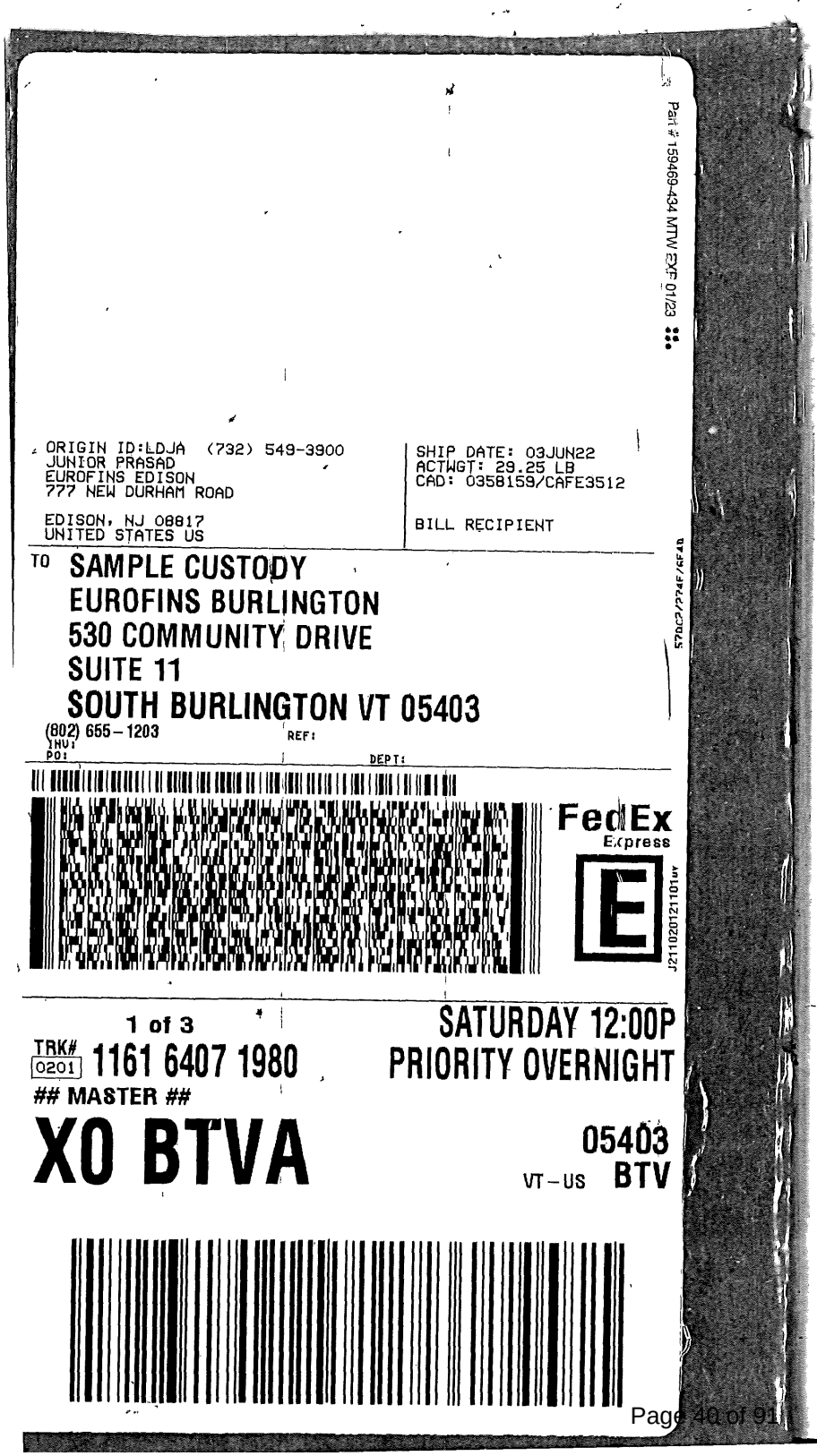
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	*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:
IA-01-053122	5/31/2022	8 15	5/31/2022	16.15	-30	-8	3857	5460		X							X						
IA-02-053122	5/31/2022	8 20	5/31/2022	16 20	-30	-9	5005	4288		X							X						
IA-03-053122	5/31/2022	8 13	5/31/2022	16 13	-30	-8	4043	4287		X							X						
IA-04-053122	5/31/2022	8 10	5/31/2022	16 10	-29	-7	4007	3437		X							X						
AA-01-053122	5/31/2022	8 02	5/31/2022	16 00	-26	0	5211	5135		X							X						

Temperature (Fahrenheit)			
Start	Interior: 73	Ambient	80
Stop	73		95

Pressure (inches of Hg)			
Start	Interior	Ambient	29.98
Stop			30.00

Special Instructions/QC Requirements & Comments: *Confirm Analysis and deliverables with P.M (Christine Wagner)*

Samples Shipped by:	**Date / Time:** 6-2-22 1218	**Samples Received by:**
Samples Relinquished by: *Jay Patel*	**Date / Time:** 6/2/2022 18:00	**Received by:** EETNeJ
Relinquished by: EETNeJ	**Date / Time:** 6/3/22 1900	**Received by:** John R. Bean ETA BUR 6/4/22 9:55
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**



Part # 159469-434 MTW EXP 01/23

ORIGIN ID:LDJA (732) 549-3900
JUNIOR PRASAD
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 03JUN22
ACTWGT: 29.25 LB
CAD: 0358159/CAFE3512

BILL RECIPIENT

TO SAMPLE CUSTODY
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203

INV:
PO:
REF:
DEPT:

FedEx Express

1 of 3

TRK# 0201 1161 6407 1980

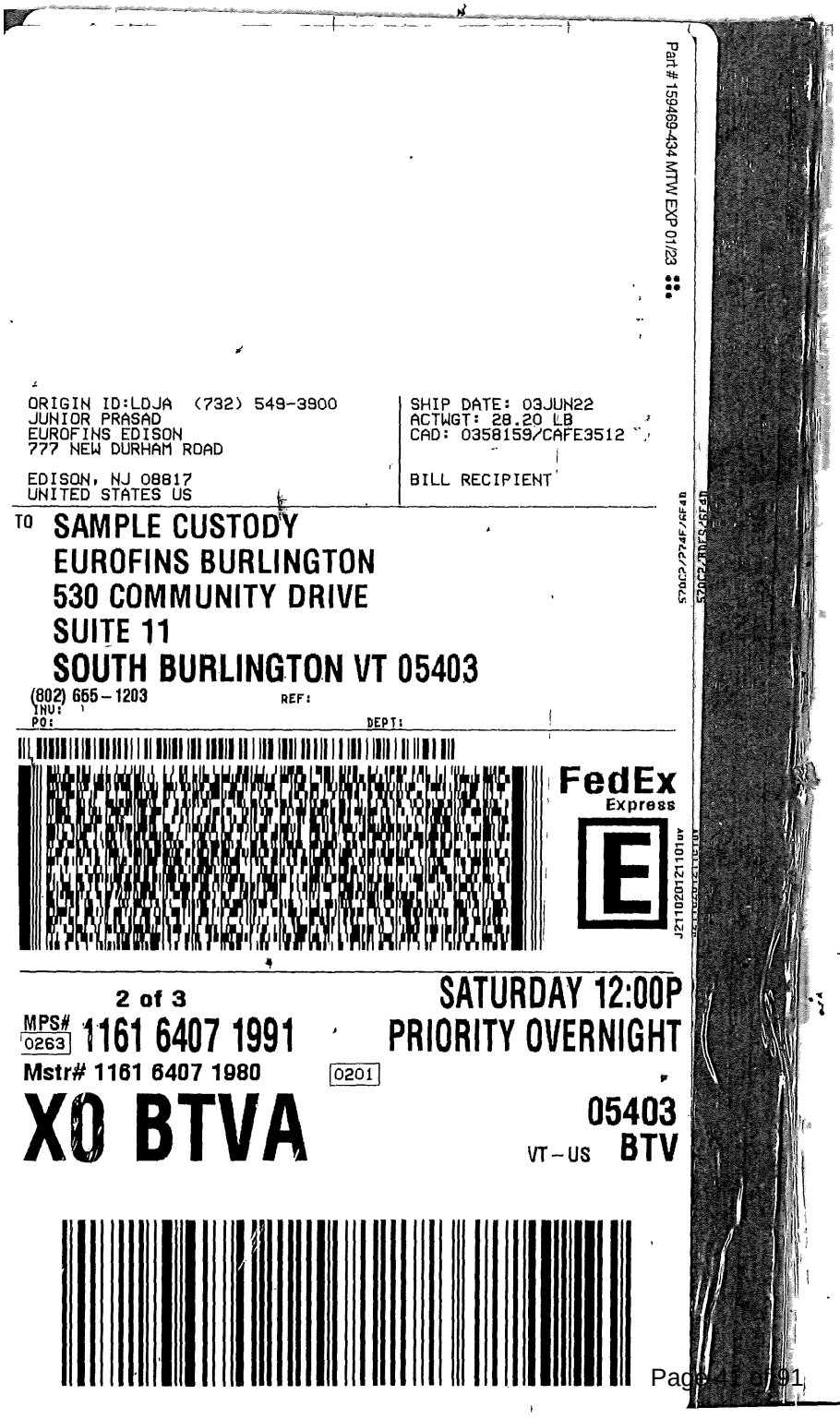
MASTER

XO BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403
VT-US BTV

J211020121101uv



Part # 159469-434 MTW EXP 01/23

ORIGIN ID:LDJA (732) 549-3900
JUNIOR PRASAD
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 03JUN22
ACTWGT: 28.20 LB
CAD: 0358159/CAFE3512

BILL RECIPIENT

TO SAMPLE CUSTODY
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 655-1203 REF:
INV:
PO: DEPT:

FedEx Express

2 of 3
MPS# 0263 1161 6407 1991
Mstr# 1161 6407 1980
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV



Part # 159469-434 MTW EXP 01/23

ORIGIN ID:LDJA (732) 549-3900
JUNIOR PRASAD
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 03JUN22
ACTWGT: 7.40 LB
CAD: 0358159/CAFE3512

BILL RECIPIENT

TO SAMPLE CUSTODY
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 655-1203
INV:
PO:
REF:
DEPT:

FedEx Express

J211020121101uv

3 of 3
MPS# 0263 1161 6407 2005
Mstr# 1161 6407 1980
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

eurofins | Environment Testing

Login Sample Receipt Checklist

Client: AECOM

Job Number: 200-63676-1
SDG Number: 200-63676-1

Login Number: 63676
List Number: 1
Creator: Beane, John P

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1480328, 1480327, 1480329
Sample custody seals, if present, are intact.	N/A	Not Present
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	
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.	True	
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	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Top Rack	10	25	4/7/2022	1410	20	20	JML	6L	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	4150	.04	.04	0	29.6	G26	4/8/22	1134	C	20.0	G26	4/16/22	1037	C	21.0
2	4280		.04	0		G26					G26				
3	3332		.04	0		G26					G26				
4	5141		.04	0		G26					G26				
5	3341		22.18			G26					G26				
6	3326		.04	0		G26					G26				
7	5089		.04	0		G26					G26				
8	3643		.04	0		G26					G26				
9	5465		.04	0		G26					G26				
10	3273		.04	0		G26					G26				
11	2860		.04	0		G26					G26				
12	4288	.04	.04	0	29.7	G26	4/16/22	1142	C	21.0	G26	4/17/22	1253	C	21.0

[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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Review
4288	4/13/22	50352	VJP		XXXXXXX				4/13/22	JRS

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-62911-A-12
4288
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/7/2022 12:00 AM 200-1603539
Loc: 200
62911
#12 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Top Rack	10	25	4/9/2022	1537	20	20	SML	6 liter	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	4291	.04	.04	0	29.6	G26	4/10/22	1200	←	21.0	G26	4/16/22	1317	←	21.0
2	3437	.04	.04	0	29.7	G26	4/16/22	1400	←	21.0	G26	4/17/22	1434	←	21.0
3	4828	.04	.04	0	29.6	G26	4/10/22	1200	←	21.0	G26	4/16/22	1317	←	21.0
4	4331	↓	.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
5	5106		.04	0		G26					G26				
6	6262		.04	0		G26					G26				
7	5611		.04	0		G26					G26				
8	5983		.04	0		G26					G26				
9	7704		.04	0		G26					G26				
10	34001511		.04	0		G26					G26				
11	4383		.04	0		G26					G26				
12	2707	↓	.04	0	↓	G26	↓	↓	↓	↓	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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
3437	4/15/22	50392	VTP		XXXXXX				4/15/22	TDT

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-62948-A-2
3437
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/9/2022 12:00 AM
200-1604473
Loc: 200
62948
#2 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	25	4/12/2022	1149	22	22	SML	6 liter	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	2880	.04	.04	0	29.6	G26	4/14/22	1125	←	22.0	G26	4/16/22	1350	←	21.0
2	2778	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
3	4459	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
4	5460	.04	.04	0	29.7	G26	4/16/22	1425	←	21.0	G26	4/17/22	1434	←	21.0
5	4325	.04	.04	0	29.6	G26	4/14/22	1125	←	22.0	G26	4/16/22	1350	←	21.0
6	5605	"	.17	.13	"	G26	"	"	"	"	G26	"	"	"	"
7	5980	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
8	5731	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
9	3166	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
10	34000605	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
11	4308	"	.23	.19	"	G26	"	"	"	"	G26	"	"	"	"
12	6266	←	.04	0	←	G26	←	←	←	←	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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
5460	4/15/22	50393	VJP		XXXXXXX				4/15/22	JMB

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-62961-A-4
5460
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/12/2022 12:00 AM 200-1604865

Loc: 200
62961
#4 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	25	4/14/2022	1430	22	22	SML	6 liter	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	2901	1.04	1.04	0	29.9	G26	4/15/22	1040	←	22.0	G26	4/18/22	1149	←	21.0
2	4123	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
3	4233	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
4	9278	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
5	4287	1.04	1.04	0	29.2	G26	4/18/22	1230	←	21.0	G26	4/19/22	1434	←	22.0
6	5628	1.04	1.04	0	29.9	G26	4/15/22	1040	←	22.0	G26	4/18/22	1149	←	21.0
7	4813	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
8	6173	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
9	4444	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
10	34001124	↓	1.11	0.07	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
11	3505	↓	1.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
12	3540	↓	1.04	0	↓	G26	↓	↓	↓	↓	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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
4287	4/18/22	50415	AEL		XXXXXXX				4/18/22	CM

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

200-62994-A-5
4287
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/14/2022 12:00 AM 200-1606042
Loc: 200
62994
#5 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	50	4/25/2022	1406	22	22	SML	6 liter	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	2780	.04	.04	0	29.8	G26	4/26/22	1040	C	22.0	G26	4/30/22	1300	C	23.0
2	4553	"	.04	0	"	G26	"	"	"	"	G26	"	"	"	"
3	5135	.04	.04	0	29.7	G26	4/30/22	1346	C	23.0	G26	5/2/22	1420	C	21.0
4	4348	.04	.04	0	29.8	G26	4/26/22	1040	C	22.0	G26	4/30/22	1300	C	23.0
5	5620		.13	0.9		G26					G26				
6	6031		.04	0		G26					G26				
7	6236		.04	0		G26					G26				
8	2864		.04	0		G26					G26				
9	4096		.04	0		G26					G26				
10	3342		.04	0		G26					G26				
11	4275		.04	0		G26					G26				
12	4781	"	.04	0	"	G26	"	"	"	"	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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Review
5135	4/27/22	50554	AKJ		XXXXXXX				4/27/22	DAB

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-63131-A-3
5135
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/25/2022 12:00 AM 200-1609522
Loc: 200
63131
#3 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62911-1

SDG No.:

Client Sample ID: 4288 Lab Sample ID: 200-62911-12

Matrix: Air Lab File ID: 50352-007.d

Analysis Method: TO-15 Date Collected: 04/07/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/12/2022 13:21

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178664 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62911-1

SDG No.:

Client Sample ID: 4288 Lab Sample ID: 200-62911-12

Matrix: Air Lab File ID: 50352-007.d

Analysis Method: TO-15 Date Collected: 04/07/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/12/2022 13:21

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178664 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220412-50352.b\50352-007.d
Lims ID: 200-62911-A-12
Client ID: 4288
Sample Type: Client
Inject. Date: 12-Apr-2022 13:21:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050352-007
Misc. Info.: 62911-12
Operator ID: wrd Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220412-50352.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Apr-2022 08:42:00 Calib Date: 17-Feb-2022 08:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220216-49589.b\49589-018.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1669

First Level Reviewer: bourdeaut Date: 13-Apr-2022 08:44:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		3.987				ND	
	2 Dichlorodifluoromethane	85		4.078				ND	
	3 Chlorodifluoromethane	51		4.121				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.431				ND	
	5 Chloromethane	50		4.538				ND	
	6 Vinyl chloride	62		4.848				ND	
	7 Butane	43		4.848				ND	7
	8 Butadiene	54		4.966				ND	
	9 Bromomethane	94		5.672				ND	
	10 Chloroethane	64		5.950				ND	
	13 Vinyl bromide	106		6.373				ND	
	14 Trichlorofluoromethane	101		6.533				ND	
	16 Ethanol	45		6.935				ND	
	20 1,1-Dichloroethene	96		7.603				ND	
	21 112TCTFE	101		7.646				ND	
	22 Acetone	43		7.700				ND	
	23 Isopropyl alcohol	45		8.005				ND	
	24 Carbon disulfide	76	7.999	8.010	-0.011	98	1556	0.0374	
	26 3-Chloro-1-propene	41		8.304				ND	
	27 Methylene Chloride	49		8.534				ND	7
	28 2-Methyl-2-propanol	59		8.780				ND	
	30 trans-1,2-Dichloroethene	61		9.037				ND	
	31 Methyl tert-butyl ether	73		9.058				ND	
	32 Hexane	57		9.545				ND	
	33 1,1-Dichloroethane	63		9.797				ND	
	34 Vinyl acetate	43		9.818				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.770				ND	
	37 cis-1,2-Dichloroethene	96		10.786				ND	
	38 Ethyl acetate	88		10.861				ND	
*	39 Chlorobromomethane	128	11.193	11.198	-0.005	93	91818	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	
	41 Chloroform	83		11.380				ND	
	42 1,1,1-Trichloroethane	97		11.680				ND	
	43 Cyclohexane	84		11.819				ND	
	44 Carbon tetrachloride	117		11.958				ND	
	45 Benzene	78		12.306				ND	
	46 1,2-Dichloroethane	62		12.381				ND	
	47 Isooctane	57		12.525				ND	
	48 n-Heptane	43		12.841				ND	7
*	49 1,4-Difluorobenzene	114	13.049	13.049	0.000	96	460650	10.0	
	51 Trichloroethene	95		13.477				ND	
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.034				ND	
	55 1,4-Dioxane	88		14.076				ND	
	57 Dibromomethane	174		14.087				ND	
	58 Dichlorobromomethane	83		14.403				ND	
	59 cis-1,3-Dichloropropene	75		15.205				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.478				ND	
	62 Toluene	92		15.847				ND	
	66 trans-1,3-Dichloropropene	75		16.259				ND	
	67 1,1,2-Trichloroethane	83		16.639				ND	
	68 Tetrachloroethene	166		16.837				ND	
	69 2-Hexanone	43		17.056				ND	
	70 Chlorodibromomethane	129		17.372				ND	
	71 Ethylene Dibromide	107		17.607				ND	
*	73 Chlorobenzene-d5	117	18.522	18.522	0.000	89	324741	10.0	
	74 Chlorobenzene	112		18.581				ND	
	75 Ethylbenzene	91		18.779				ND	7
	76 m-Xylene & p-Xylene	106		19.041				ND	
	78 o-Xylene	106		19.811				ND	
	79 Styrene	104		19.849				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.207				ND	
	82 Isopropylbenzene	105		20.539				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.068				ND	
	85 N-Propylbenzene	91		21.277				ND	
	86 2-Chlorotoluene	91		21.422				ND	
	87 4-Ethyltoluene	105		21.480				ND	
	88 1,3,5-Trimethylbenzene	105		21.577				ND	
	91 tert-Butylbenzene	119		22.064				ND	
	92 1,2,4-Trimethylbenzene	105		22.154				ND	
	93 sec-Butylbenzene	105		22.401				ND	
	94 1,3-Dichlorobenzene	146		22.566				ND	
	95 4-Isopropyltoluene	119		22.620				ND	
	96 1,4-Dichlorobenzene	146		22.711				ND	
	97 Benzyl chloride	91		22.861				ND	
	98 n-Butylbenzene	91		23.171				ND	
	99 1,2-Dichlorobenzene	146		23.198				ND	
	102 1,2,4-Trichlorobenzene	180		25.578				ND	
	103 Hexachlorobutadiene	225		25.819				ND	
	104 Naphthalene	128		26.038				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

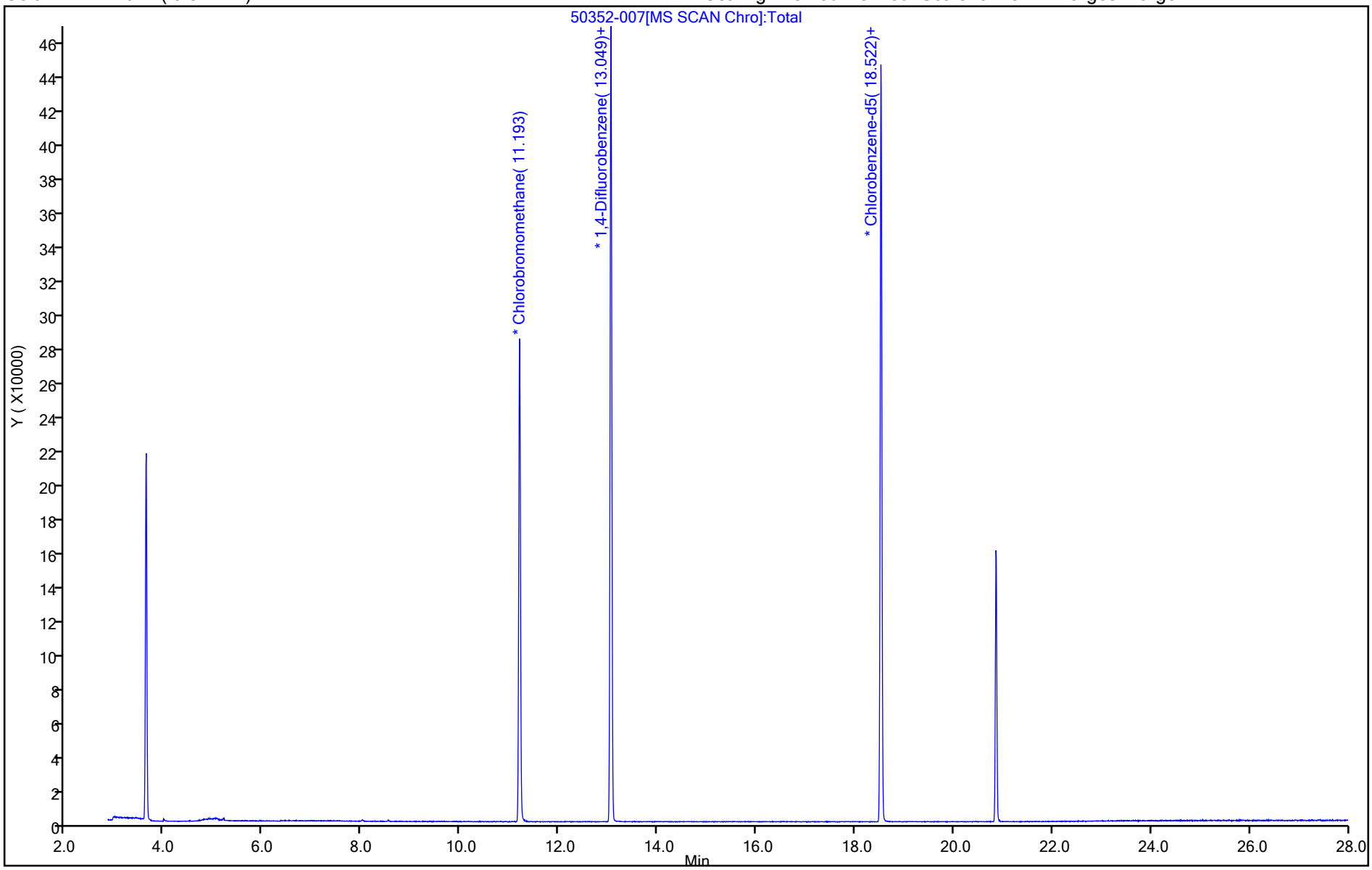
Report Date: 13-Apr-2022 08:44:42 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220412-50352.b\50352-007.d

Injection Date:	12-Apr-2022 13:21:30	Instrument ID:	CHW.i	Operator ID:	wrd
Lims ID:	200-62911-A-12	Lab Sample ID:	200-62911-12	Worklist Smp#:	7
Client ID:	4288				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_TO3_MasterMethod_W	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: Eurofins Burlington Job No.: 200-62948-1

SDG No.:

Client Sample ID: 3437 Lab Sample ID: 200-62948-2

Matrix: Air Lab File ID: 50392-05.D

Analysis Method: TO-15 Date Collected: 04/09/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 10:50

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178754 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	0.10	U	0.10	0.10
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62948-1

SDG No.:

Client Sample ID: 3437 Lab Sample ID: 200-62948-2

Matrix: Air Lab File ID: 50392-05.D

Analysis Method: TO-15 Date Collected: 04/09/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 10:50

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178754 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62948-1

SDG No.:

Client Sample ID: 3437 Lab Sample ID: 200-62948-2

Matrix: Air Lab File ID: 50392-05.D

Analysis Method: TO-15 Date Collected: 04/09/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 10:50

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178754 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220414-50392.b\50392-05.D
Lims ID: 200-62948-A-2
Client ID: 3437
Sample Type: Client
Inject. Date: 14-Apr-2022 10:50:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050392-005
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20220414-50392.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 14-Apr-2022 15:25:38 Calib Date: 12-Apr-2022 01:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20220411-50344.b\50344-14.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: phamvu Date: 14-Apr-2022 15:26:21

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		2.821				ND	7
	2 Dichlorodifluoromethane	85		2.879				ND	7
	3 Chlorodifluoromethane	51		2.917				ND	7
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.114				ND	7
	5 Chloromethane	50		3.221				ND	7
	6 Butane	43		3.408				ND	7
	7 Vinyl chloride	62		3.434				ND	
	8 Butadiene	54		3.504				ND	
	9 Bromomethane	94		4.091				ND	
	10 Chloroethane	64		4.310				ND	
	13 Vinyl bromide	106		4.673				ND	
	14 Trichlorofluoromethane	101		4.790				ND	
	16 Ethanol	45		5.361				ND	
	19 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.825				ND	
	20 1,1-Dichloroethene	96		5.836				ND	
	21 Acetone	43		6.050				ND	7
	22 Carbon disulfide	76		6.194				ND	7
	23 Isopropyl alcohol	45		6.434				ND	
	24 3-Chloro-1-propene	41		6.573				ND	7
	26 Methylene Chloride	49		6.850				ND	7
	28 2-Methyl-2-propanol	59		7.213				ND	
	29 trans-1,2-Dichloroethene	61		7.314				ND	
	30 Methyl tert-butyl ether	73		7.341				ND	7
	32 Hexane	57		7.752				ND	
	33 1,1-Dichloroethane	63		8.136				ND	
	34 Vinyl acetate	43		8.248				ND	
	35 cis-1,2-Dichloroethene	96		9.220				ND	7
	36 2-Butanone (MEK)	72		9.284				ND	
	37 Ethyl acetate	88		9.374				ND	
*	38 Chlorobromomethane	128	9.652	9.657	-0.005	88	569108	20.0	
	39 Tetrahydrofuran	42		9.743				ND	
	40 Chloroform	83		9.812				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 1,1,1-Trichloroethane	97		10.084				ND	
42 Cyclohexane	84		10.100				ND	
S 43 1,2-Dichloroethene, Total	61		10.200				ND	7
44 Carbon tetrachloride	117		10.356				ND	
45 Benzene	78		10.773				ND	7
46 Isooctane	57		10.831				ND	
47 1,2-Dichloroethane	62		10.922				ND	
48 n-Heptane	43		11.242				ND	7
* 49 1,4-Difluorobenzene	114	11.616	11.621	-0.005	95	3040989	20.0	
50 Trichloroethene	95		12.091				ND	7
53 1,2-Dichloropropane	63		12.587				ND	
56 Dibromomethane	174		12.833				ND	7
55 Methyl methacrylate	69		12.838				ND	
57 1,4-Dioxane	88		12.902				ND	
58 Dichlorobromomethane	83		13.164				ND	
59 cis-1,3-Dichloropropene	75		14.124				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.466				ND	7
62 Toluene	92		14.738				ND	7
66 trans-1,3-Dichloropropene	75		15.330				ND	7
67 1,1,2-Trichloroethane	83		15.693				ND	
68 Tetrachloroethene	166		15.869				ND	
69 2-Hexanone	43		16.222				ND	7
70 Chlorodibromomethane	129		16.462				ND	
71 Ethylene Dibromide	107		16.713				ND	
* 72 Chlorobenzene-d5	117	17.647	17.652	-0.005	87	2721222	20.0	
73 Chlorobenzene	112		17.711				ND	
74 Ethylbenzene	91		17.892				ND	7
76 m-Xylene & p-Xylene	106		18.148				ND	7
77 o-Xylene	106		18.976				ND	
78 Styrene	104		19.024				ND	
80 Bromoform	173		19.429				ND	
81 Isopropylbenzene	105		19.728				ND	
S 82 Xylenes, Total	106		20.100				ND	7
83 1,1,2,2-Tetrachloroethane	83		20.422				ND	
85 N-Propylbenzene	91		20.534				ND	7
86 2-Chlorotoluene	91		20.731				ND	7
87 4-Ethyltoluene	105		20.747				ND	7
89 1,3,5-Trimethylbenzene	105		20.865				ND	7
91 tert-Butylbenzene	119		21.388				ND	7
92 1,2,4-Trimethylbenzene	105		21.489				ND	7
93 sec-Butylbenzene	105		21.740				ND	7
94 4-Isopropyltoluene	119		21.959				ND	7
95 1,3-Dichlorobenzene	146		21.959				ND	7
96 1,4-Dichlorobenzene	146		22.103				ND	7
97 Benzyl chloride	91		22.295				ND	7
98 n-Butylbenzene	91		22.546				ND	7
100 1,2-Dichlorobenzene	146		22.631				ND	7
102 1,2,4-Trichlorobenzene	180		24.942				ND	7
103 Hexachlorobutadiene	225		25.150				ND	7
104 Naphthalene	128		25.348				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15ClSs_00011 Amount Added: 40.00 Units: mL Run Reagent

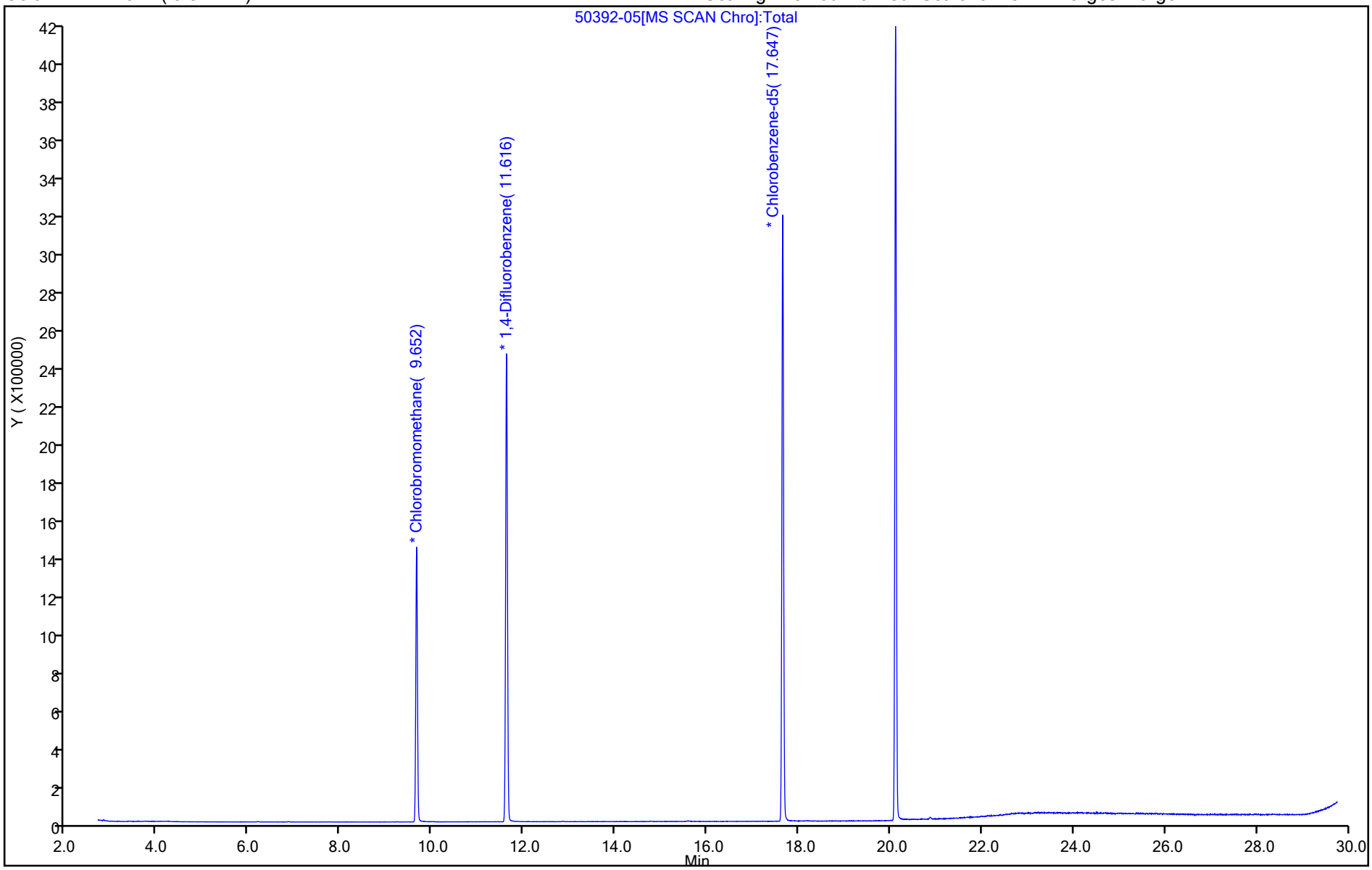
Report Date: 14-Apr-2022 15:26:21 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220414-50392.b\50392-05.D

Injection Date:	14-Apr-2022 10:50:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-62948-A-2	Lab Sample ID:	200-62948-2	Worklist Smp#:	5
Client ID:	3437				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_MasterMethod_(v1)_CHC.i	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: Eurofins Burlington Job No.: 200-62961-1

SDG No.:

Client Sample ID: 5460 Lab Sample ID: 200-62961-4

Matrix: Air Lab File ID: 200-50393-007.D

Analysis Method: TO-15 Date Collected: 04/12/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 12:33

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178755 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	0.10	U	0.10	0.10
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-62961-1

SDG No.:

Client Sample ID: 5460 | Lab Sample ID: 200-62961-4

Matrix: Air | Lab File ID: 200-50393-007.D

Analysis Method: TO-15 | Date Collected: 04/12/2022 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 04/14/2022 12:33

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 178755 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62961-1

SDG No.:

Client Sample ID: 5460 Lab Sample ID: 200-62961-4

Matrix: Air Lab File ID: 200-50393-007.D

Analysis Method: TO-15 Date Collected: 04/12/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 12:33

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178755 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D
Lims ID: 200-62961-A-4
Client ID: 5460
Sample Type: Client
Inject. Date: 14-Apr-2022 12:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050393-007
Operator ID: wrd Instrument ID: CHG.i

Method: \\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 15-Apr-2022 09:03:28 Calib Date: 15-Mar-2022 01:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20220314-49936.b\200-49936-014.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: bourdeaut Date: 15-Apr-2022 09:03:30

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1	Propene	41		3.030				ND	
2	Dichlorodifluoromethane	85		3.083				ND	
3	Chlorodifluoromethane	51		3.094				ND	7
4	1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.276				ND	
5	Chloromethane	50		3.334				ND	
6	Vinyl chloride	62		3.516				ND	
7	Butane	43		3.527				ND	7
8	Butadiene	54		3.586				ND	
9	Bromomethane	94		4.009				ND	
10	Chloroethane	64		4.180				ND	
12	Vinyl bromide	106		4.474				ND	
13	Trichlorofluoromethane	101		4.602				ND	
15	Ethanol	45		4.784				ND	
19	Acetone	43		5.405				ND	7
18	1,1-Dichloroethene	96		5.410				ND	
21	1,1,2-Trichloro-1,2,2-trifluoroe	101		5.458				ND	
22	Isopropyl alcohol	45		5.646				ND	
23	Carbon disulfide	76		5.779				ND	
25	3-Chloro-1-propene	41		5.977				ND	
26	Methylene Chloride	49		6.159				ND	7
27	2-Methyl-2-propanol	59		6.336				ND	
29	trans-1,2-Dichloroethene	61		6.657				ND	
30	Methyl tert-butyl ether	73		6.689				ND	
31	Hexane	57		7.197				ND	
32	1,1-Dichloroethane	63		7.336				ND	
33	Vinyl acetate	43		7.357				ND	
34	2-Butanone (MEK)	72		8.235				ND	
35	cis-1,2-Dichloroethene	96		8.278				ND	
36	Ethyl acetate	88		8.369				ND	
* 37	Chlorobromomethane	128	8.668	8.673	-0.005	91	54112	10.0	
38	Tetrahydrofuran	42		8.770				ND	
39	Chloroform	83		8.850				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 1,1,1-Trichloroethane	97		9.203				ND	
	41 Cyclohexane	84		9.390				ND	
	42 Carbon tetrachloride	117		9.513				ND	
S	43 1,2-Dichloroethene, Total	61		9.665				ND	7
	44 Benzene	78		9.829				ND	U
	45 1,2-Dichloroethane	62		9.856				ND	
	46 Isooctane	57		10.161				ND	
	47 n-Heptane	43		10.498				ND	7
*	48 1,4-Difluorobenzene	114	10.610	10.610	0.000	97	260874	10.0	
	50 Trichloroethene	95		11.097				ND	
	51 1,2-Dichloropropane	63		11.557				ND	
	53 Dibromomethane	174		11.712				ND	
	54 Methyl methacrylate	69		11.717				ND	
	55 1,4-Dioxane	88		11.728				ND	
	56 Dichlorobromomethane	83		12.071				ND	
	58 cis-1,3-Dichloropropene	75		12.975				ND	
	59 4-Methyl-2-pentanone (MIBK)	43		13.274				ND	
	60 Toluene	92		13.702				ND	U
	65 trans-1,3-Dichloropropene	75		14.114				ND	
	66 1,1,2-Trichloroethane	83		14.505				ND	
	67 Tetrachloroethene	166		14.804				ND	
	68 2-Hexanone	43		14.991				ND	
	69 Chlorodibromomethane	129		15.296				ND	
	70 Ethylene Dibromide	107		15.542				ND	
*	71 Chlorobenzene-d5	117	16.548	16.548	0.000	95	188917	10.0	
	72 Chlorobenzene	112		16.607				ND	
	73 Ethylbenzene	91		16.853				ND	U
	74 m-Xylene & p-Xylene	106		17.131				ND	
	76 o-Xylene	106		17.939				ND	7
	77 Styrene	104		17.961				ND	
	78 Bromoform	173		18.287				ND	
	79 Isopropylbenzene	105		18.742				ND	
	80 1,1,2,2-Tetrachloroethane	83		19.277				ND	
	83 N-Propylbenzene	91		19.582				ND	7
S	82 Xylenes, Total	106		19.600				ND	7
	84 2-Chlorotoluene	91		19.715				ND	7
	85 4-Ethyltoluene	105		19.812				ND	7
	86 1,3,5-Trimethylbenzene	105		19.929				ND	7
	89 tert-Butylbenzene	119		20.459				ND	7
	90 1,2,4-Trimethylbenzene	105		20.555				ND	U
	91 sec-Butylbenzene	105		20.823				ND	7
	92 1,3-Dichlorobenzene	146		20.978				ND	7
	93 4-Isopropyltoluene	119		21.069				ND	U
	94 1,4-Dichlorobenzene	146		21.133				ND	U
	95 Benzyl chloride	91		21.277				ND	
	96 1,2-Dichlorobenzene	146		21.636				ND	U
	97 n-Butylbenzene	91		21.663				ND	U
	100 1,2,4-Trichlorobenzene	180		23.990				ND	U
	101 Hexachlorobutadiene	225		24.263				ND	
	102 Naphthalene	128		24.402				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15GIS_00018	Amount Added:	20.00	Units: mL	Run Reagent

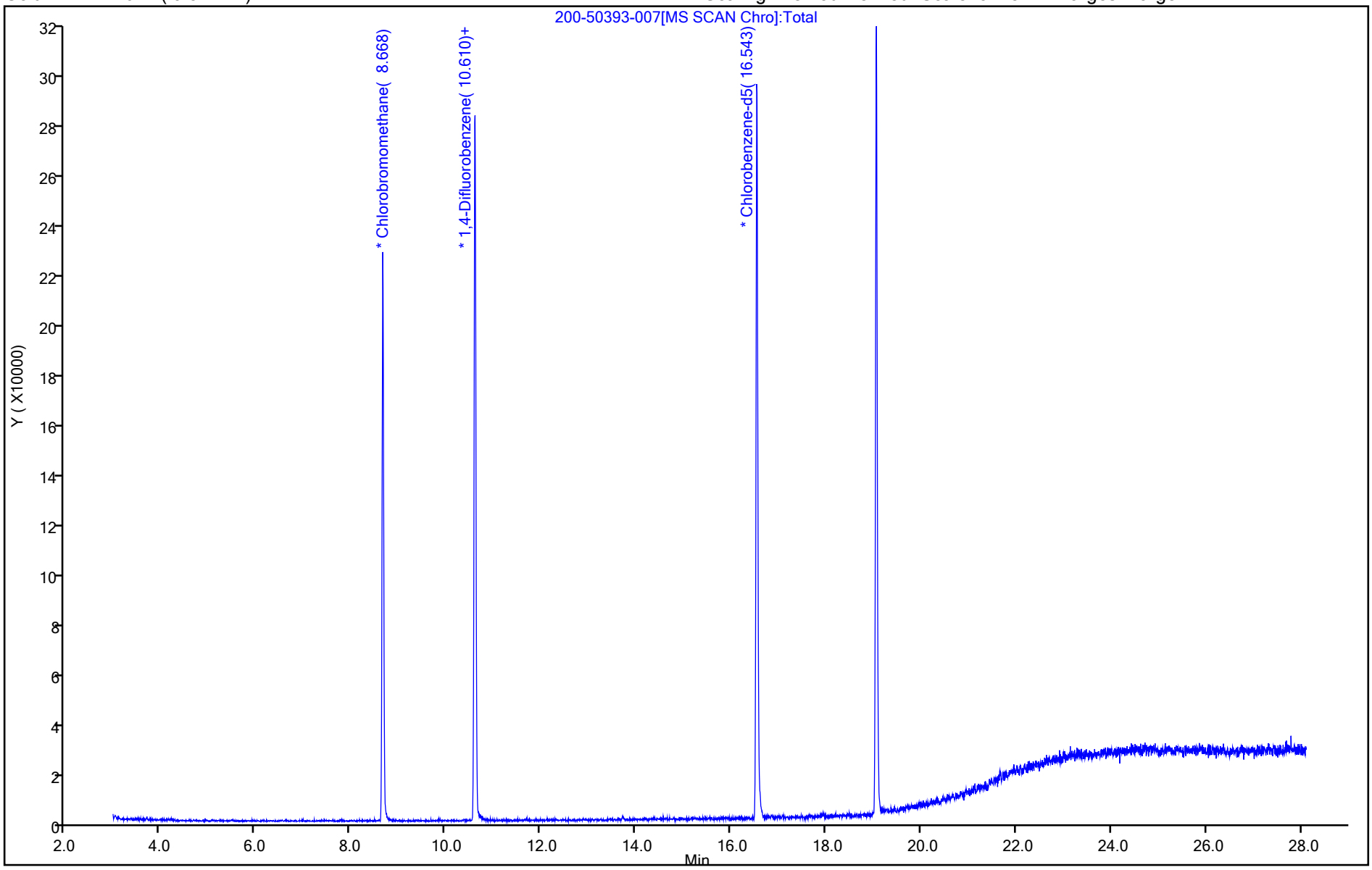
Report Date: 15-Apr-2022 09:03:30 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D

Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i	Operator ID:	wrd
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4	Worklist Smp#:	7
Client ID:	5460				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	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



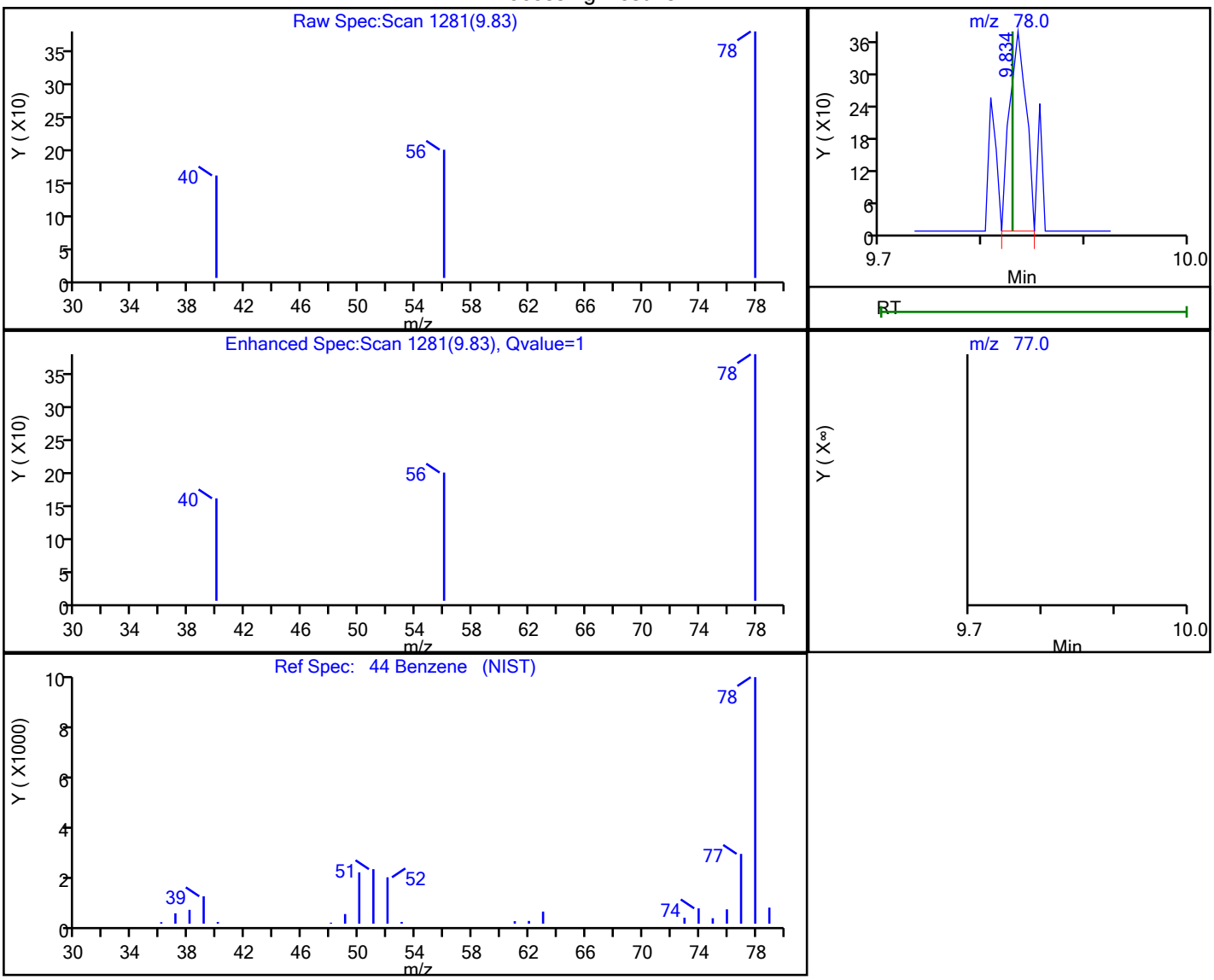
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
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		

44 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
9.83	78.00	422	0.023580
9.83	77.00	0	

Reviewer: bourdeaut, 15-Apr-2022 09:03:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

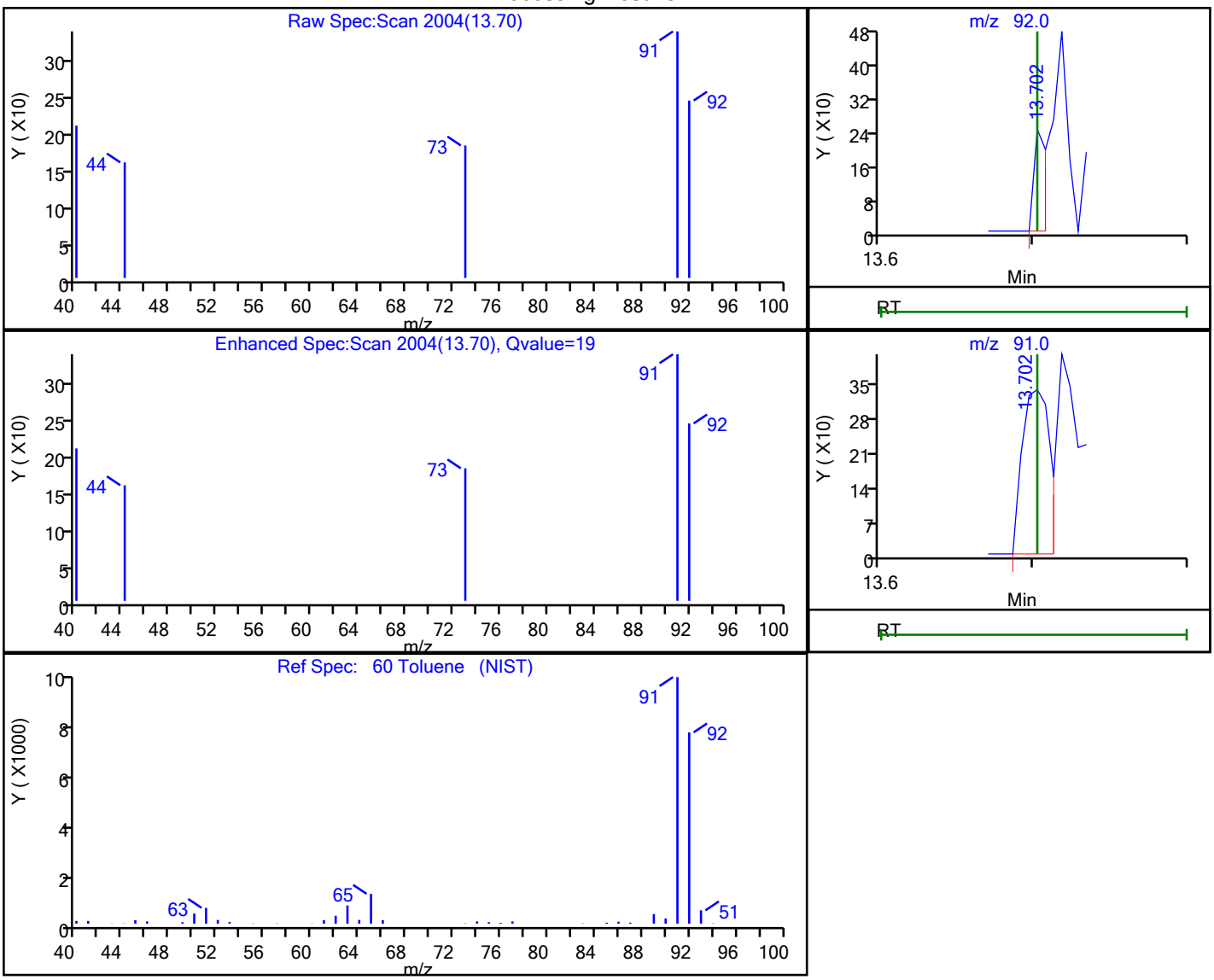
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
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		

60 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
13.70	92.00	139	0.013128
13.70	91.00	425	

Reviewer: bourdeaut, 15-Apr-2022 09:03:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

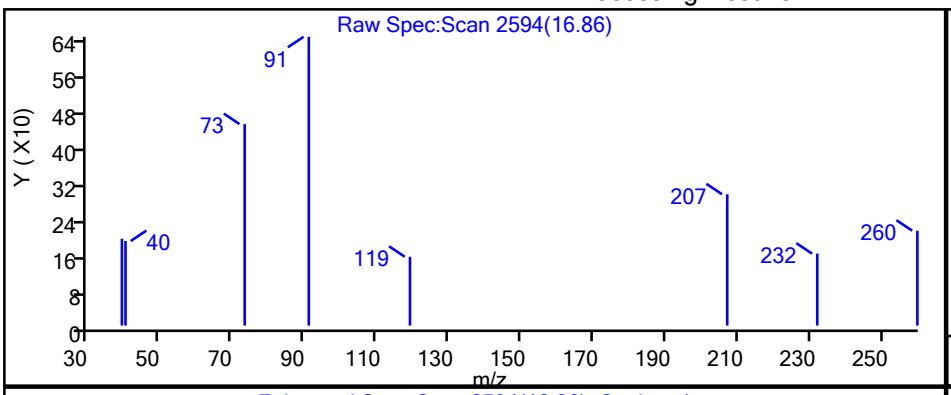
User Disabled Compound Report

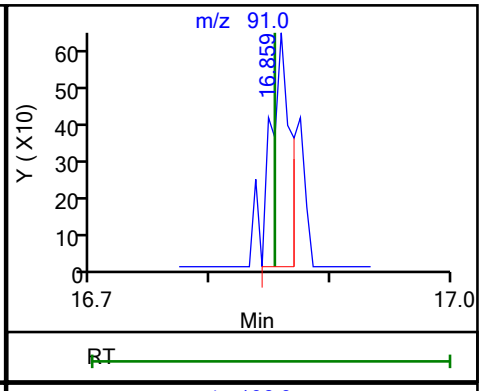
Eurofins Burlington

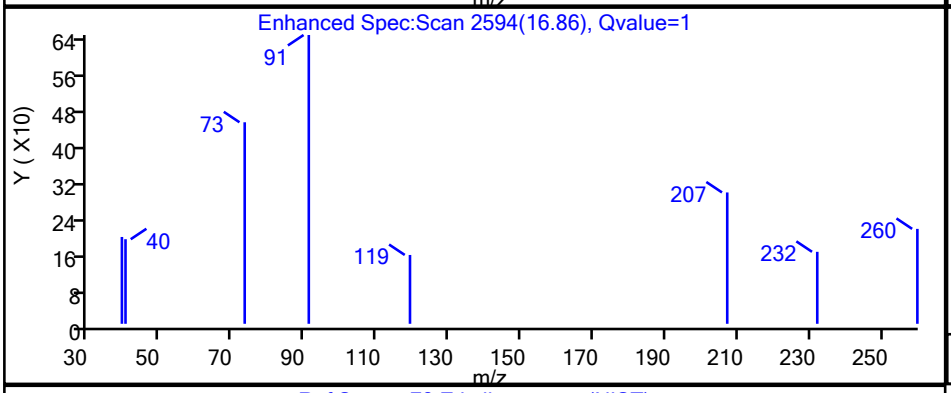
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Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

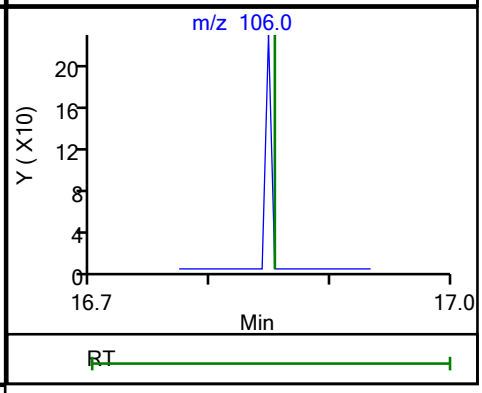
73 Ethylbenzene, CAS: 100-41-4

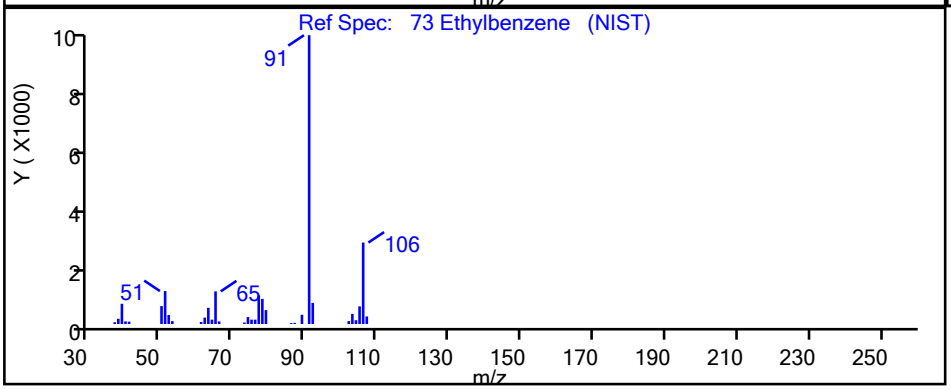
Processing Results











RT	Mass	Response	Amount
16.86	91.00	689	0.027906
16.85	106.00	0	

Reviewer: bourdeaut, 15-Apr-2022 09:02:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

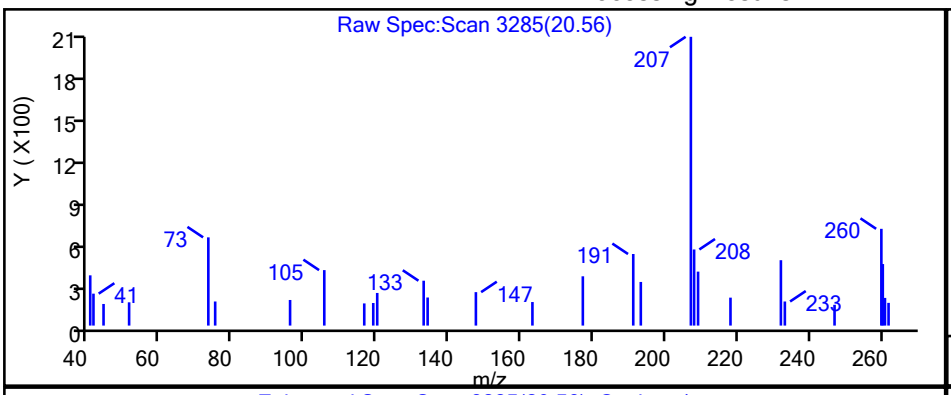
User Disabled Compound Report

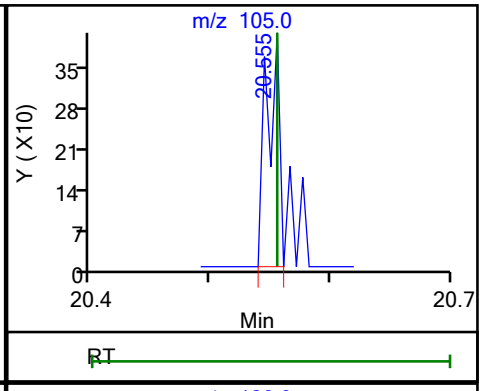
Eurofins Burlington

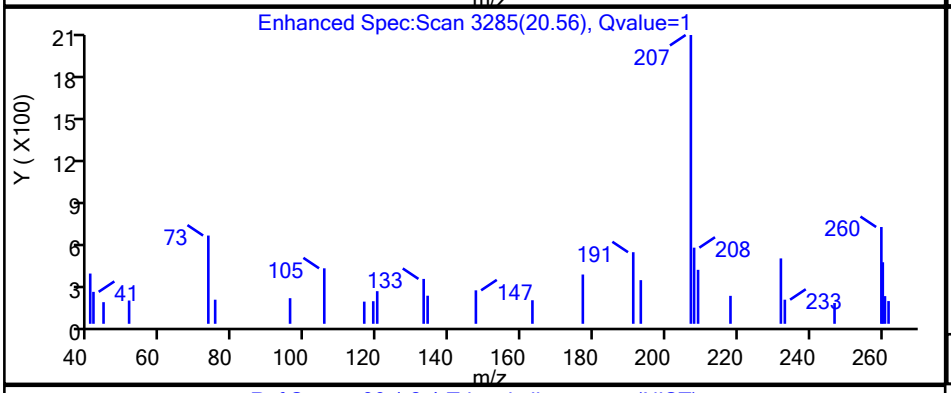
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

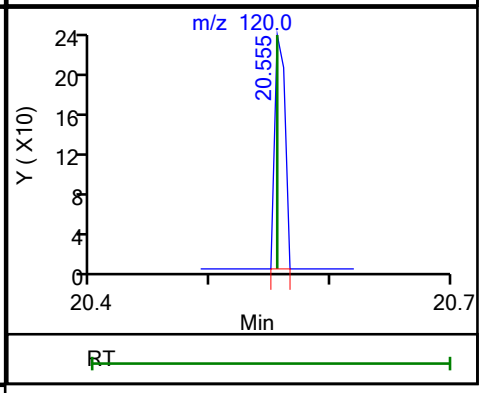
90 1,2,4-Trimethylbenzene, CAS: 95-63-6

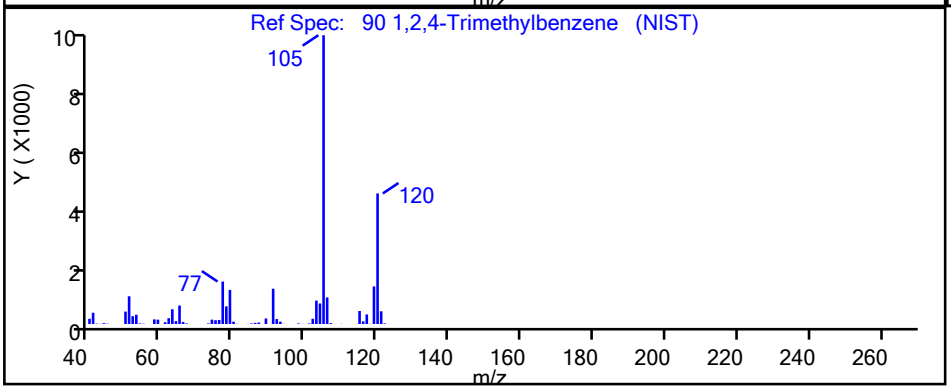
Processing Results











RT	Mass	Response	Amount
20.56	105.00	301	0.014765
20.56	120.00	142	

Reviewer: bourdeaut, 15-Apr-2022 09:02:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

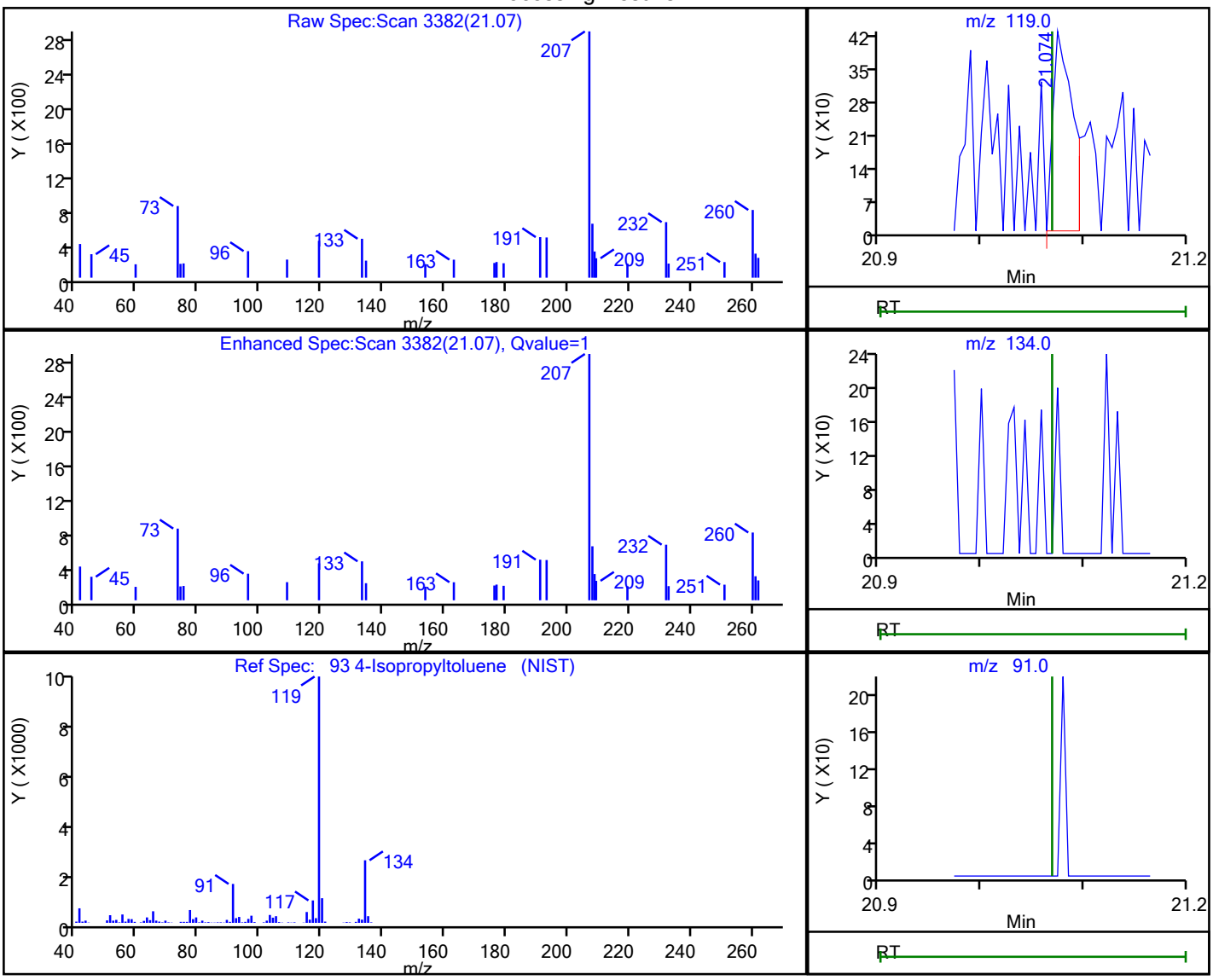
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
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 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
21.07	119.00	567	0.024401
21.07	134.00	0	
21.07	91.00	0	

Reviewer: bourdeaut, 15-Apr-2022 09:02:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

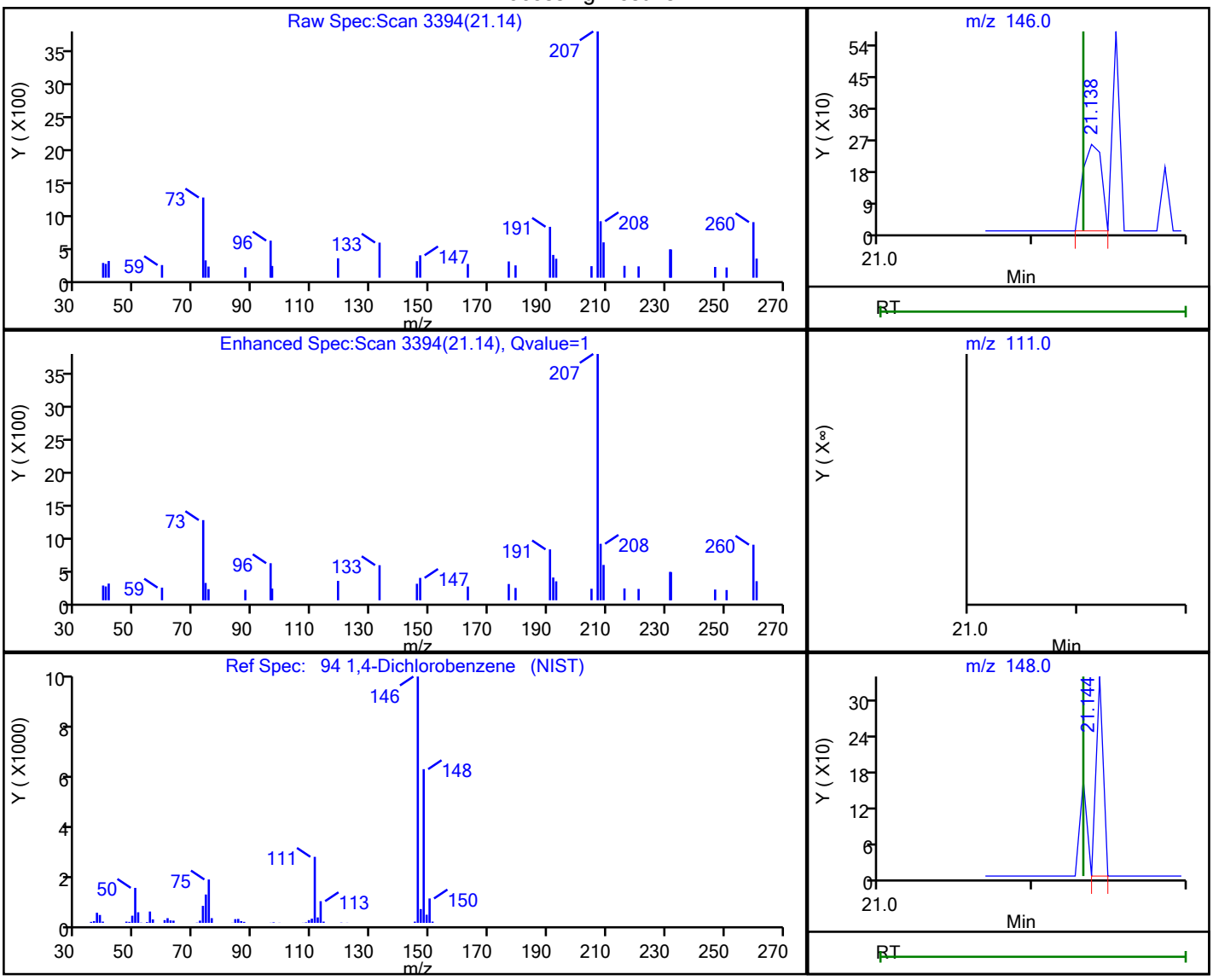
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
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 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
21.14	146.00	212	0.015471
21.13	111.00	0	
21.14	148.00	108	

Reviewer: bourdeaut, 15-Apr-2022 09:02:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

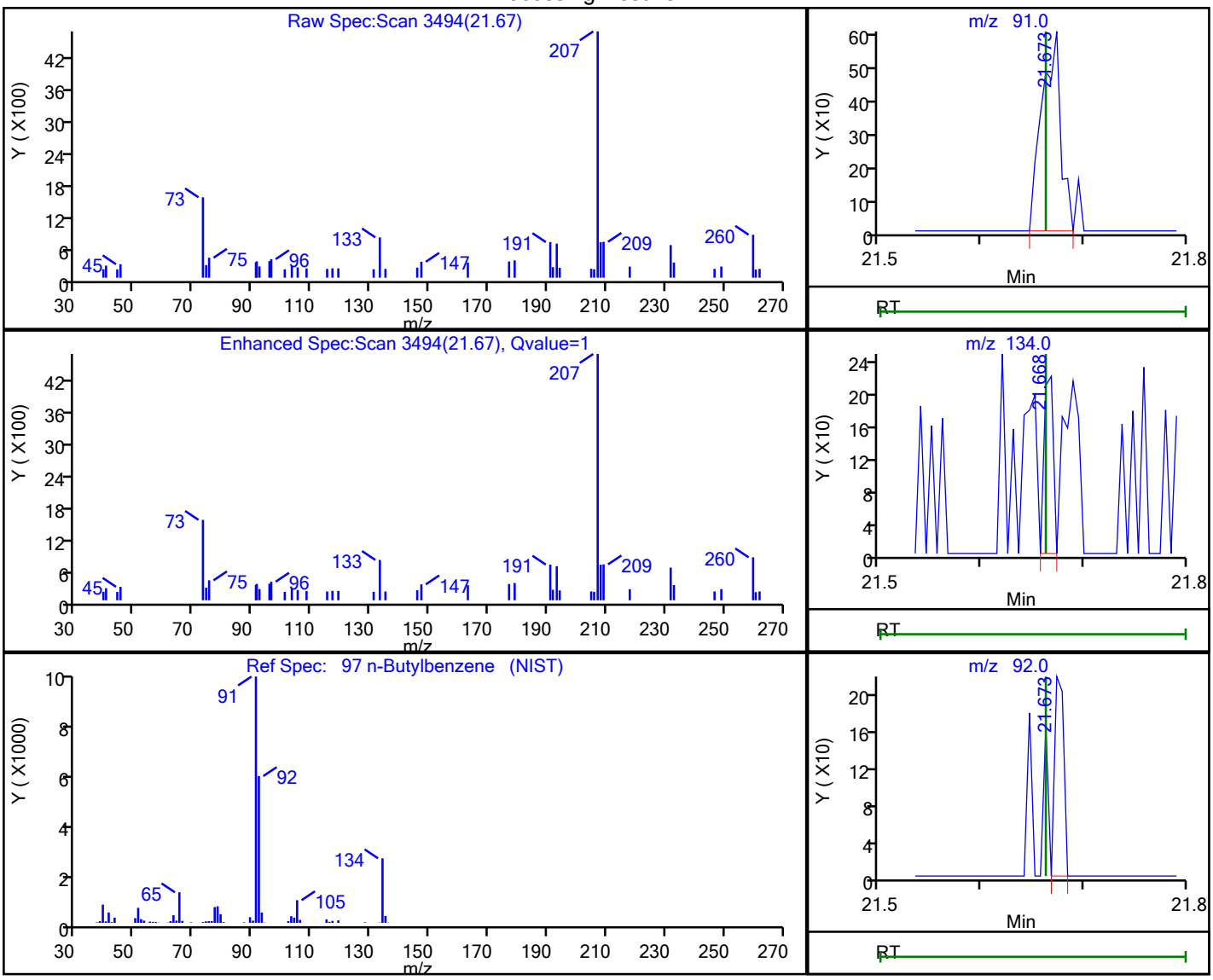
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
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		

97 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
21.67	91.00	778	0.034153
21.67	134.00	134	
21.67	92.00	132	

Reviewer: bourdeaut, 15-Apr-2022 09:02:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

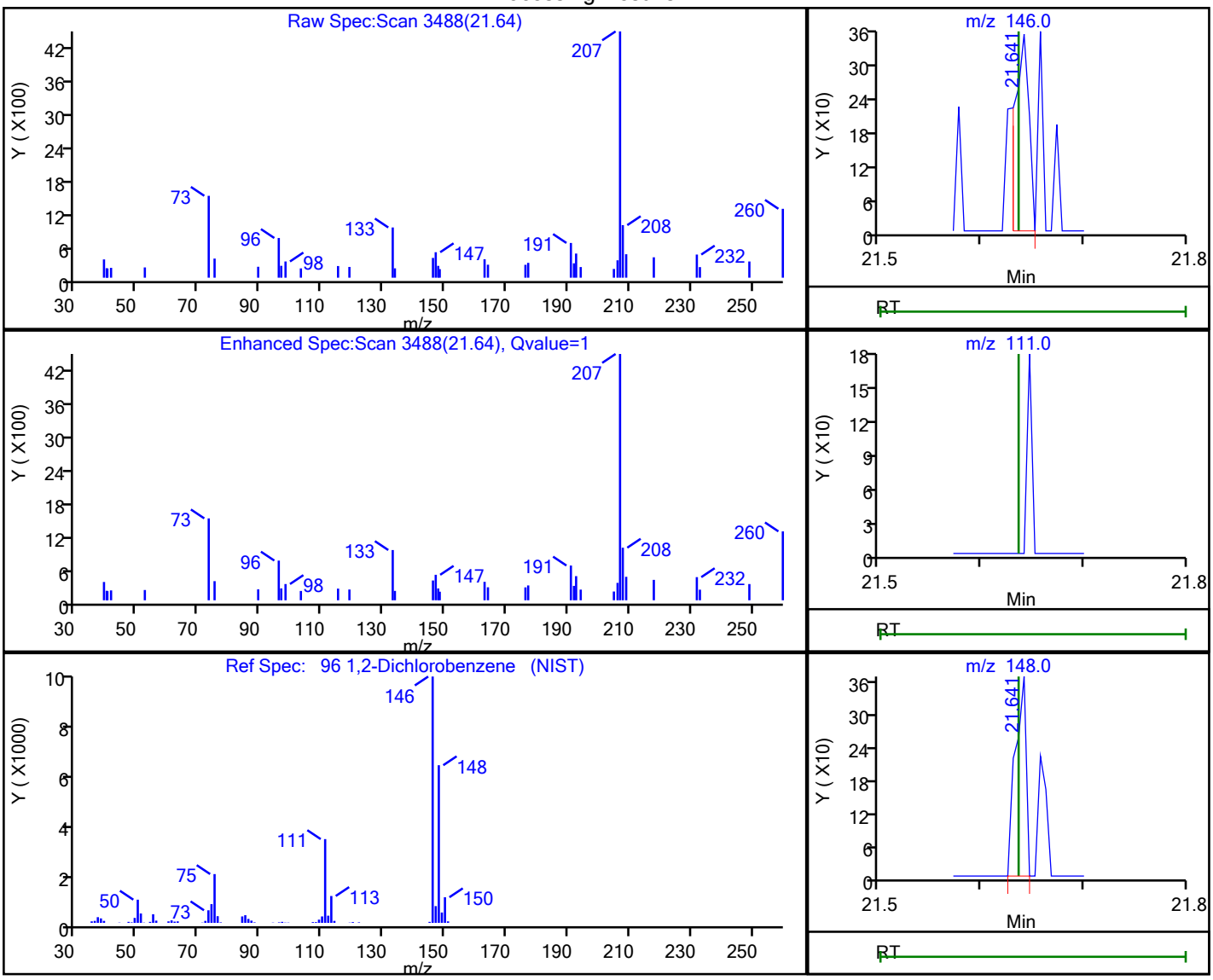
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
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		

96 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
21.64	146.00	334	0.022849
21.64	111.00	0	
21.64	148.00	269	

Reviewer: bourdeaut, 15-Apr-2022 09:02:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

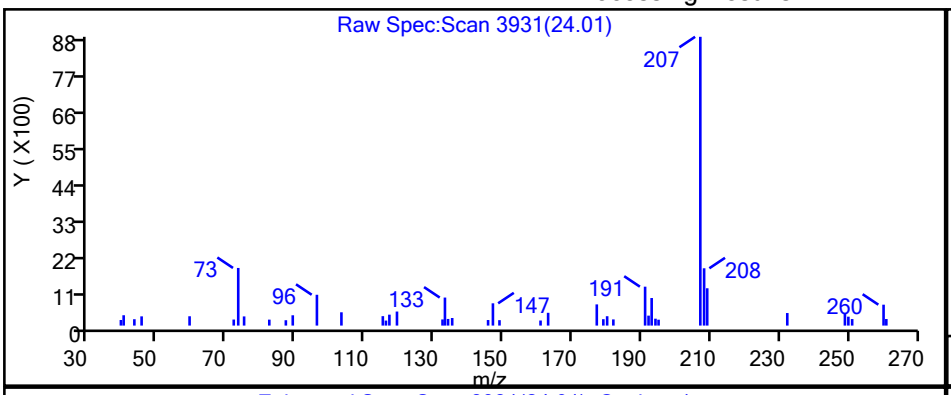
User Disabled Compound Report

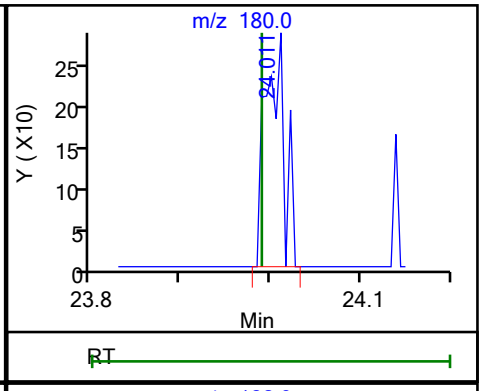
Eurofins Burlington

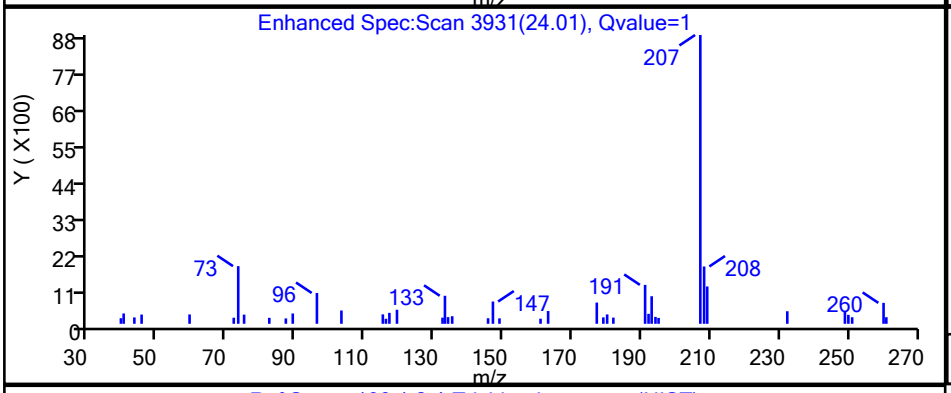
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220414-50393.b\200-50393-007.D				
Injection Date:	14-Apr-2022 12:33:30	Instrument ID:	CHG.i		
Lims ID:	200-62961-A-4	Lab Sample ID:	200-62961-4		
Client ID:	5460				
Operator ID:	wrd	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

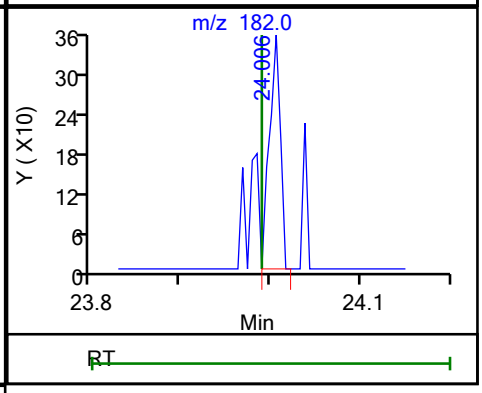
100 1,2,4-Trichlorobenzene, CAS: 120-82-1

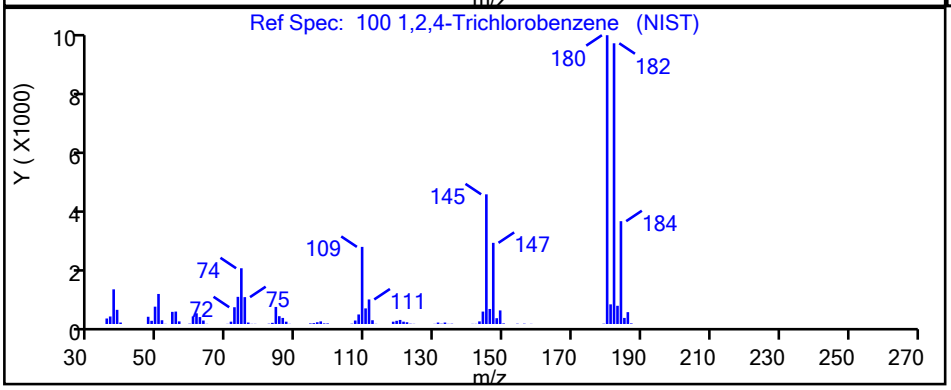
Processing Results











RT	Mass	Response	Amount
24.01	180.00	422	0.033740
24.01	182.00	298	

Reviewer: bourdeaut, 15-Apr-2022 09:02:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62994-1

SDG No.:

Client Sample ID: 4287 Lab Sample ID: 200-62994-5

Matrix: Air Lab File ID: 50413-07.D

Analysis Method: TO-15 Date Collected: 04/14/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/15/2022 12:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178809 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	0.10	U	0.10	0.10
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62994-1

SDG No.:

Client Sample ID: 4287 Lab Sample ID: 200-62994-5

Matrix: Air Lab File ID: 50413-07.D

Analysis Method: TO-15 Date Collected: 04/14/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/15/2022 12:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178809 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62994-1

SDG No.:

Client Sample ID: 4287 Lab Sample ID: 200-62994-5

Matrix: Air Lab File ID: 50413-07.D

Analysis Method: TO-15 Date Collected: 04/14/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/15/2022 12:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178809 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220415-50413.b\50413-07.D
Lims ID: 200-62994-A-5
Client ID: 4287
Sample Type: Client
Inject. Date: 15-Apr-2022 12:45:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050413-007
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20220415-50413.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Apr-2022 07:14:00 Calib Date: 12-Apr-2022 01:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20220411-50344.b\50344-14.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: puangmaleek Date: 18-Apr-2022 07:21:08

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1	Propene	41		2.815				ND	7
2	Dichlorodifluoromethane	85		2.879				ND	7
3	Chlorodifluoromethane	51		2.917				ND	7
4	1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.109				ND	7
5	Chloromethane	50		3.216				ND	7
6	Butane	43		3.402				ND	7
7	Vinyl chloride	62		3.429				ND	
8	Butadiene	54		3.499				ND	
9	Bromomethane	94		4.086				ND	
10	Chloroethane	64		4.304				ND	
13	Vinyl bromide	106		4.667				ND	
14	Trichlorofluoromethane	101		4.785				ND	
16	Ethanol	45		5.361				ND	
19	1,1,2-Trichloro-1,2,2-trifluoroe	101		5.825				ND	
20	1,1-Dichloroethene	96		5.831				ND	
21	Acetone	43		6.050				ND	7
22	Carbon disulfide	76		6.194				ND	7
23	Isopropyl alcohol	45		6.434				ND	
24	3-Chloro-1-propene	41		6.573				ND	7
26	Methylene Chloride	49		6.850				ND	7
28	2-Methyl-2-propanol	59		7.213				ND	
29	trans-1,2-Dichloroethene	61		7.309				ND	
30	Methyl tert-butyl ether	73		7.336				ND	
32	Hexane	57		7.747				ND	
33	1,1-Dichloroethane	63		8.131				ND	
34	Vinyl acetate	43		8.243				ND	
35	cis-1,2-Dichloroethene	96		9.214				ND	
36	2-Butanone (MEK)	72		9.278				ND	
37	Ethyl acetate	88		9.369				ND	
* 38	Chlorobromomethane	128	9.652	9.652	0.000	90	552574	20.0	
39	Tetrahydrofuran	42		9.743				ND	
40	Chloroform	83		9.807				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 1,1,1-Trichloroethane	97		10.079				ND	
42 Cyclohexane	84		10.095				ND	
S 43 1,2-Dichloroethene, Total	61		10.200				ND	7
44 Carbon tetrachloride	117		10.351				ND	
45 Benzene	78		10.767				ND	7
46 Isooctane	57		10.831				ND	
47 1,2-Dichloroethane	62		10.917				ND	
48 n-Heptane	43		11.237				ND	7
* 49 1,4-Difluorobenzene	114	11.616	11.616	0.000	95	2929992	20.0	
50 Trichloroethene	95		12.086				ND	
53 1,2-Dichloropropane	63		12.577				ND	
56 Dibromomethane	174	12.843	12.833	0.010	94	1324	0.0160	
55 Methyl methacrylate	69		12.833				ND	
57 1,4-Dioxane	88		12.897				ND	
58 Dichlorobromomethane	83		13.158				ND	
59 cis-1,3-Dichloropropene	75		14.119				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.461				ND	7
62 Toluene	92		14.733				ND	7
66 trans-1,3-Dichloropropene	75		15.325				ND	
67 1,1,2-Trichloroethane	83		15.688				ND	
68 Tetrachloroethene	166	15.880	15.864	0.016	95	2630	0.0228	
69 2-Hexanone	43		16.216				ND	7
70 Chlorodibromomethane	129		16.462				ND	
71 Ethylene Dibromide	107		16.707				ND	
* 72 Chlorobenzene-d5	117	17.647	17.647	0.000	88	2595652	20.0	
73 Chlorobenzene	112		17.705				ND	
74 Ethylbenzene	91		17.887				ND	7
76 m-Xylene & p-Xylene	106		18.143				ND	
77 o-Xylene	106		18.970				ND	
78 Styrene	104		19.018				ND	
80 Bromoform	173		19.429				ND	
81 Isopropylbenzene	105		19.723				ND	
S 82 Xylenes, Total	106		20.100				ND	7
83 1,1,2,2-Tetrachloroethane	83		20.417				ND	
85 N-Propylbenzene	91		20.534				ND	7
86 2-Chlorotoluene	91		20.726				ND	7
87 4-Ethyltoluene	105		20.742				ND	7
89 1,3,5-Trimethylbenzene	105		20.865				ND	7
91 tert-Butylbenzene	119		21.388				ND	
92 1,2,4-Trimethylbenzene	105		21.489				ND	7
93 sec-Butylbenzene	105		21.735				ND	7
94 4-Isopropyltoluene	119		21.959				ND	7
95 1,3-Dichlorobenzene	146		21.959				ND	7
96 1,4-Dichlorobenzene	146		22.098				ND	7
97 Benzyl chloride	91		22.290				ND	7
98 n-Butylbenzene	91		22.546				ND	7
100 1,2-Dichlorobenzene	146		22.626				ND	7
102 1,2,4-Trichlorobenzene	180		24.942				ND	7
103 Hexachlorobutadiene	225		25.150				ND	7
104 Naphthalene	128		25.343				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15ClSs_00011 Amount Added: 40.00 Units: mL Run Reagent

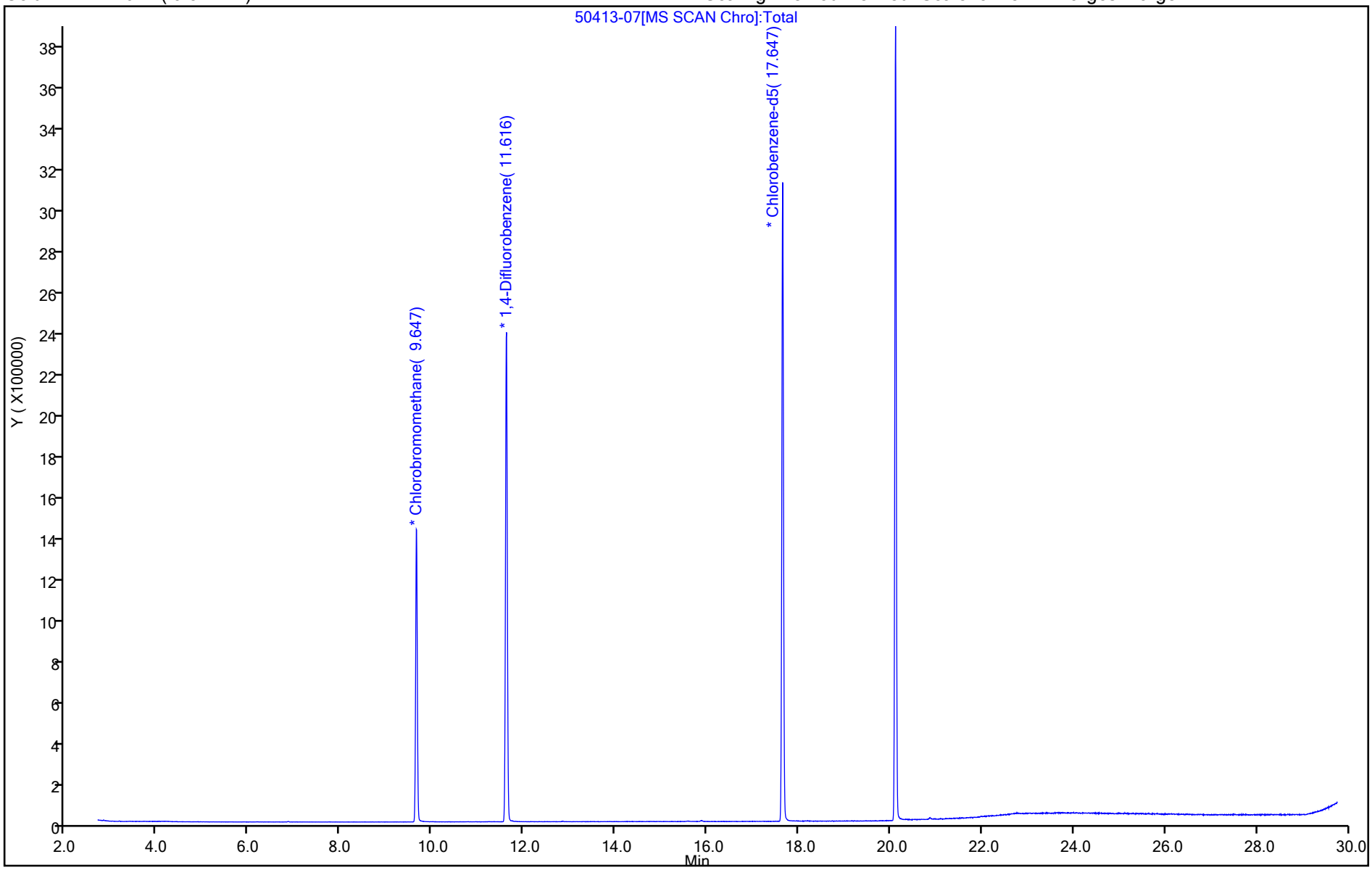
Report Date: 18-Apr-2022 07:21:08 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220415-50413.b\50413-07.D

Injection Date:	15-Apr-2022 12:45:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-62994-A-5	Lab Sample ID:	200-62994-5	Worklist Smp#:	7
Client ID:	4287				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_MasterMethod_(v1)_CHC.i	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: Eurofins Burlington Job No.: 200-63131-1

SDG No.:

Client Sample ID: 5135 Lab Sample ID: 200-63131-3

Matrix: Air Lab File ID: 50554-06.D

Analysis Method: TO-15 Date Collected: 04/25/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/26/2022 11:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179166 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63131-1

SDG No.:

Client Sample ID: 5135 Lab Sample ID: 200-63131-3

Matrix: Air Lab File ID: 50554-06.D

Analysis Method: TO-15 Date Collected: 04/25/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/26/2022 11:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 179166 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20220426-50554.b\50554-06.D
Lims ID: 200-63131-A-3
Client ID: 5135
Sample Type: Client
Inject. Date: 26-Apr-2022 11:49:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050554-006
Misc. Info.: 63131-1
Operator ID: vtp Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20220426-50554.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 27-Apr-2022 08:24:46 Calib Date: 20-Apr-2022 07:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20220419-50461.b\50461-21.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bunmaa Date: 27-Apr-2022 08:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.311				ND	7
3 Dichlorodifluoromethane	85		4.407				ND	
4 Chlorodifluoromethane	51		4.445				ND	7
5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.755				ND	
6 Chloromethane	50		4.878				ND	7
7 Vinyl chloride	62		5.183				ND	
8 Butane	43		5.194				ND	7
9 Butadiene	54		5.301				ND	
10 Bromomethane	94		5.996				ND	
12 Chloroethane	64		6.258				ND	
14 Vinyl bromide	106		6.676				ND	
15 Trichlorofluoromethane	101		6.842				ND	
17 Ethanol	45	7.179	7.179	0.038	93	941	0.1200	M
20 1,1-Dichloroethene	96		7.885				ND	
22 Acetone	43		7.922				ND	
21 112TCTFE	101		7.928				ND	
23 Isopropyl alcohol	45		8.190				ND	7
24 Carbon disulfide	76		8.307				ND	7
27 3-Chloro-1-propene	41		8.569				ND	
28 Methylene Chloride	49		8.800				ND	
29 2-Methyl-2-propanol	59		8.949				ND	
31 Methyl tert-butyl ether	73		9.286				ND	
32 trans-1,2-Dichloroethene	61		9.308				ND	
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.811				ND	
35 Vinyl acetate	43		10.051				ND	
36 1,1-Dichloroethane	63		10.057				ND	
37 2-Butanone (MEK)	72		10.988				ND	
38 cis-1,2-Dichloroethene	96		11.041				ND	
39 Ethyl acetate	88		11.078				ND	
* 40 Chlorobromomethane	128	11.453	11.453	0.000	76	101135	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		11.490				ND	
	42 Chloroform	83		11.624				ND	
	43 1,1,1-Trichloroethane	97		11.940				ND	
	44 Cyclohexane	84		12.095				ND	
	45 Carbon tetrachloride	117		12.229				ND	
	46 Benzene	78		12.560				ND	
	47 1,2-Dichloroethane	62		12.635				ND	
	48 Isooctane	57		12.785				ND	
	49 n-Heptane	43		13.095				ND	
*	50 1,4-Difluorobenzene	114	13.293	13.293	0.000	94	517911	10.0	
	52 Trichloroethene	95		13.732				ND	
	55 1,2-Dichloropropane	63		14.181				ND	
	56 Methyl methacrylate	69		14.251				ND	
	57 1,4-Dioxane	88		14.294				ND	
	58 Dibromomethane	174		14.342				ND	
	59 Dichlorobromomethane	83		14.647				ND	
	60 cis-1,3-Dichloropropene	75		15.444				ND	
	62 4-Methyl-2-pentanone (MIBK)	43		15.679				ND	
	63 Toluene	92		16.091				ND	
	67 trans-1,3-Dichloropropene	75		16.492				ND	
	68 1,1,2-Trichloroethane	83		16.872				ND	
	69 Tetrachloroethene	166		17.086				ND	
	70 2-Hexanone	43		17.252				ND	
	71 Chlorodibromomethane	129		17.616				ND	
	72 Ethylene Dibromide	107		17.857				ND	
*	73 Chlorobenzene-d5	117	18.761	18.761	0.000	87	294907	10.0	
	74 Chlorobenzene	112		18.820				ND	
	75 Ethylbenzene	91		19.012				ND	
	76 m-Xylene & p-Xylene	106		19.280				ND	
S	78 Xylenes, Total	106		19.600				ND	7
	79 o-Xylene	106		20.045				ND	
	80 Styrene	104		20.082				ND	
	81 Bromoform	173		20.435				ND	
	82 Isopropylbenzene	105		20.745				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.248				ND	
	85 N-Propylbenzene	91		21.462				ND	
	86 2-Chlorotoluene	91		21.607				ND	
	87 4-Ethyltoluene	105		21.660				ND	
	88 1,3,5-Trimethylbenzene	105		21.751				ND	
	91 tert-Butylbenzene	119		22.238				ND	
	92 1,2,4-Trimethylbenzene	105		22.324				ND	
	93 sec-Butylbenzene	105		22.559				ND	
	94 1,3-Dichlorobenzene	146		22.736				ND	
	95 4-Isopropyltoluene	119		22.778				ND	
	96 1,4-Dichlorobenzene	146		22.880				ND	
	97 Benzyl chloride	91		23.019				ND	
	98 n-Butylbenzene	91		23.335				ND	
	99 1,2-Dichlorobenzene	146		23.361				ND	
	102 1,2,4-Trichlorobenzene	180		25.796				ND	
	103 Hexachlorobutadiene	225		26.036				ND	
	104 Naphthalene	128		26.266				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

ATTO15XISs_00003	Amount Added:	20.00	Units: mL	Run Reagent

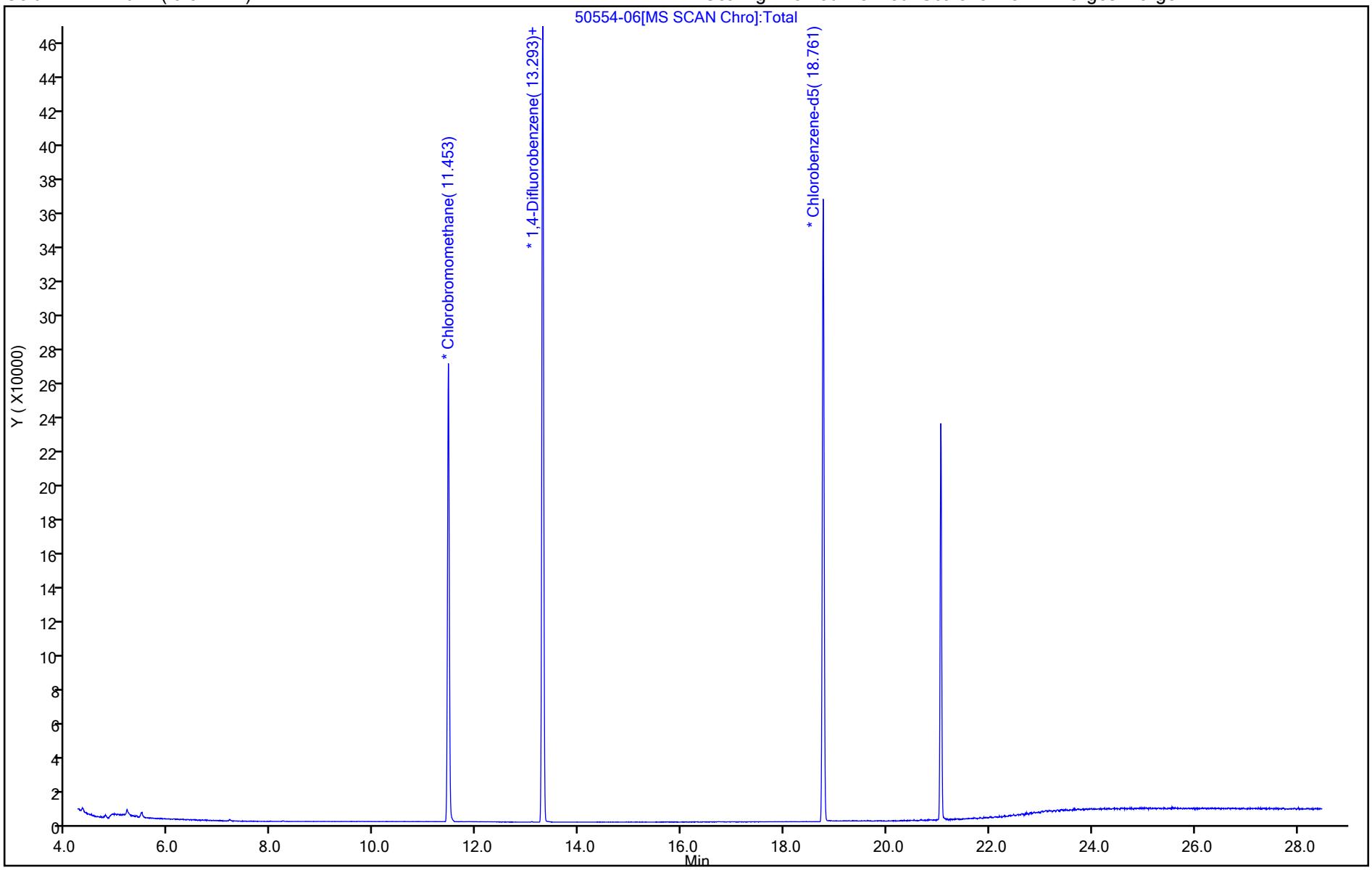
Report Date: 27-Apr-2022 08:24:47 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20220426-50554.b\50554-06.D

Injection Date:	26-Apr-2022 11:49:30	Instrument ID:	CHX.i	Operator ID:	vtp
Lims ID:	200-63131-A-3	Lab Sample ID:	200-63131-3	Worklist Smp#:	6
Client ID:	5135				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Burlington

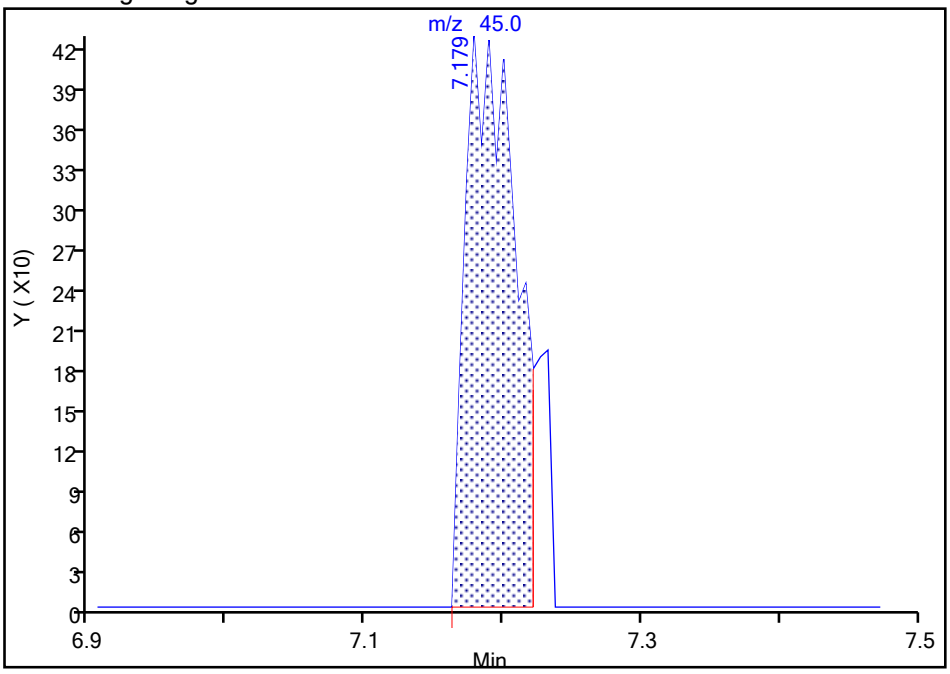
Data File:	\\chromfs\Burlington\ChromData\CHX.i\20220426-50554.b\50554-06.D				
Injection Date:	26-Apr-2022 11:49:30	Instrument ID:	CHX.i		
Lims ID:	200-63131-A-3	Lab Sample ID:	200-63131-3		
Client ID:	5135				
Operator ID:	vtp	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

Signal: 1

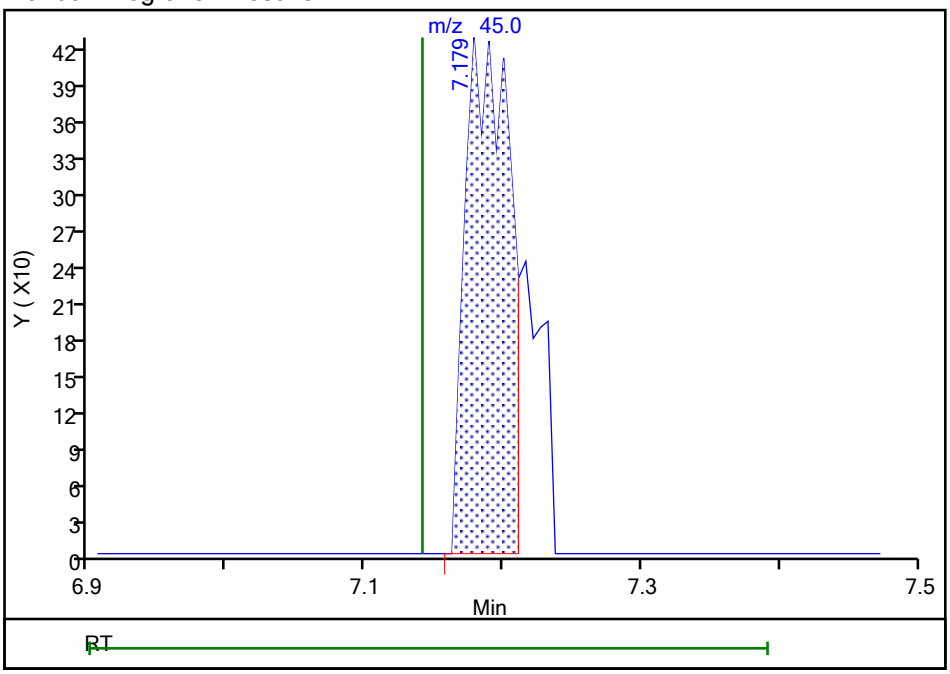
Processing Integration Results

RT: 7.18
Area: 1074
Amount: 0.136987
Amount Units: ppb v/v



Manual Integration Results

RT: 7.18
Area: 941
Amount: 0.120023
Amount Units: ppb v/v



Reviewer: bunmaa, 27-Apr-2022 08:23:18
Audit Action: Manually Integrated Audit Reason: Assign Peak

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-63678-1
Laboratory Sample Delivery Group: 200-63678-1
Client Project/Site: HUB Building Long Island City

For:
AECOM
1255 Broad Street
Clifton, New Jersey 07013

Attn: Christine Wagner

Elizabeth A. Nye

Authorized for release by:
6/13/2022 2:19:16 PM

Elizabeth Nye, Project Manager I
(802)923-1029
Elizabeth.Nye@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Qualifiers

Air - GC/MS VOA

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

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job ID: 200-63678-1

Laboratory: Eurofins Burlington

Narrative

CASE NARRATIVE

Client: AECOM

Project: HUB Building Long Island City

Report Number: 200-63678-1

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 06/04/2022; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples SV-01-060122, SV-02-060122, SV-03-060122 and SV-04-060122 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 06/08/2022 and 06/09/2022.

Samples SV-01-060122[10X], SV-01-060122[5X], SV-02-060122[40X], SV-02-060122[8X], SV-03-060122[8X], SV-04-060122[45.2X] and SV-04-060122[9X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-01-060122

Lab Sample ID: 200-63678-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	3.1		2.5		ppb v/v	5		TO-15	Total/NA
1,3-Butadiene	2.4		1.0		ppb v/v	5		TO-15	Total/NA
Acetone	230	E	25		ppb v/v	5		TO-15	Total/NA
Methyl Ethyl Ketone	8.1		2.5		ppb v/v	5		TO-15	Total/NA
Benzene	1.9		1.0		ppb v/v	5		TO-15	Total/NA
n-Heptane	31		1.0		ppb v/v	5		TO-15	Total/NA
Toluene	5.7		1.0		ppb v/v	5		TO-15	Total/NA
Tetrachloroethene	11		1.0		ppb v/v	5		TO-15	Total/NA
Ethylbenzene	4.0		1.0		ppb v/v	5		TO-15	Total/NA
m,p-Xylene	20		2.5		ppb v/v	5		TO-15	Total/NA
Xylene, o-	8.3		1.0		ppb v/v	5		TO-15	Total/NA
Xylene (total)	28		3.5		ppb v/v	5		TO-15	Total/NA
Cumene	8.9		1.0		ppb v/v	5		TO-15	Total/NA
n-Propylbenzene	17		1.0		ppb v/v	5		TO-15	Total/NA
4-Ethyltoluene	15		1.0		ppb v/v	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	38		1.0		ppb v/v	5		TO-15	Total/NA
tert-Butylbenzene	8.0		1.0		ppb v/v	5		TO-15	Total/NA
1,2,4-Trimethylbenzene	59		1.0		ppb v/v	5		TO-15	Total/NA
sec-Butylbenzene	20		1.0		ppb v/v	5		TO-15	Total/NA
4-Isopropyltoluene	14		1.0		ppb v/v	5		TO-15	Total/NA
n-Butylbenzene	4.4		1.0		ppb v/v	5		TO-15	Total/NA
1,3-Butadiene - DL	2.5	D	2.0		ppb v/v	10		TO-15	Total/NA
Acetone - DL	270	D	50		ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone - DL	8.9	D	5.0		ppb v/v	10		TO-15	Total/NA
Benzene - DL	2.8	D	2.0		ppb v/v	10		TO-15	Total/NA
n-Heptane - DL	41	D	2.0		ppb v/v	10		TO-15	Total/NA
Toluene - DL	8.5	D	2.0		ppb v/v	10		TO-15	Total/NA
Tetrachloroethene - DL	16	D	2.0		ppb v/v	10		TO-15	Total/NA
Ethylbenzene - DL	5.7	D	2.0		ppb v/v	10		TO-15	Total/NA
m,p-Xylene - DL	31	D	5.0		ppb v/v	10		TO-15	Total/NA
Xylene, o- - DL	11	D	2.0		ppb v/v	10		TO-15	Total/NA
Xylene (total) - DL	42	D	7.0		ppb v/v	10		TO-15	Total/NA
Cumene - DL	12	D	2.0		ppb v/v	10		TO-15	Total/NA
n-Propylbenzene - DL	21	D	2.0		ppb v/v	10		TO-15	Total/NA
4-Ethyltoluene - DL	19	D	2.0		ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	77	D	2.0		ppb v/v	10		TO-15	Total/NA
4-Isopropyltoluene - DL	18	D	2.0		ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	7.4		5.9		ug/m3	5		TO-15	Total/NA
1,3-Butadiene	5.4		2.2		ug/m3	5		TO-15	Total/NA
Acetone	550	E	59		ug/m3	5		TO-15	Total/NA
Methyl Ethyl Ketone	24		7.4		ug/m3	5		TO-15	Total/NA
Benzene	6.0		3.2		ug/m3	5		TO-15	Total/NA
n-Heptane	130		4.1		ug/m3	5		TO-15	Total/NA
Toluene	22		3.8		ug/m3	5		TO-15	Total/NA
Tetrachloroethene	74		6.8		ug/m3	5		TO-15	Total/NA
Ethylbenzene	17		4.3		ug/m3	5		TO-15	Total/NA
m,p-Xylene	88		11		ug/m3	5		TO-15	Total/NA
Xylene, o-	36		4.3		ug/m3	5		TO-15	Total/NA
Xylene (total)	120		15		ug/m3	5		TO-15	Total/NA
Cumene	44		4.9		ug/m3	5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-01-060122 (Continued) — Lab Sample ID: 200-63678-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Propylbenzene	81		4.9		ug/m3	5		TO-15	Total/NA
4-Ethyltoluene	75		4.9		ug/m3	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	190		4.9		ug/m3	5		TO-15	Total/NA
tert-Butylbenzene	44		5.5		ug/m3	5		TO-15	Total/NA
1,2,4-Trimethylbenzene	290		4.9		ug/m3	5		TO-15	Total/NA
sec-Butylbenzene	110		5.5		ug/m3	5		TO-15	Total/NA
4-Isopropyltoluene	79		5.5		ug/m3	5		TO-15	Total/NA
n-Butylbenzene	24		5.5		ug/m3	5		TO-15	Total/NA
1,3-Butadiene - DL	5.6	D	4.4		ug/m3	10		TO-15	Total/NA
Acetone - DL	630	D	120		ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone - DL	26	D	15		ug/m3	10		TO-15	Total/NA
Benzene - DL	8.9	D	6.4		ug/m3	10		TO-15	Total/NA
n-Heptane - DL	170	D	8.2		ug/m3	10		TO-15	Total/NA
Toluene - DL	32	D	7.5		ug/m3	10		TO-15	Total/NA
Tetrachloroethene - DL	110	D	14		ug/m3	10		TO-15	Total/NA
Ethylbenzene - DL	25	D	8.7		ug/m3	10		TO-15	Total/NA
m,p-Xylene - DL	130	D	22		ug/m3	10		TO-15	Total/NA
Xylene, o- - DL	49	D	8.7		ug/m3	10		TO-15	Total/NA
Xylene (total) - DL	180	D	30		ug/m3	10		TO-15	Total/NA
Cumene - DL	57	D	9.8		ug/m3	10		TO-15	Total/NA
n-Propylbenzene - DL	100	D	9.8		ug/m3	10		TO-15	Total/NA
4-Ethyltoluene - DL	93	D	9.8		ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	380	D	9.8		ug/m3	10		TO-15	Total/NA
4-Isopropyltoluene - DL	97	D	11		ug/m3	10		TO-15	Total/NA

Client Sample ID: SV-02-060122 — Lab Sample ID: 200-63678-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	6.7		4.0		ppb v/v	8		TO-15	Total/NA
Acetone	2000	E	40		ppb v/v	8		TO-15	Total/NA
Methylene Chloride	23		4.0		ppb v/v	8		TO-15	Total/NA
1,1-Dichloroethane	32		1.6		ppb v/v	8		TO-15	Total/NA
Methyl Ethyl Ketone	12		4.0		ppb v/v	8		TO-15	Total/NA
cis-1,2-Dichloroethene	19		1.6		ppb v/v	8		TO-15	Total/NA
1,2-Dichloroethene, Total	19		3.2		ppb v/v	8		TO-15	Total/NA
Chloroform	3.8		1.6		ppb v/v	8		TO-15	Total/NA
1,1,1-Trichloroethane	290		1.6		ppb v/v	8		TO-15	Total/NA
Trichloroethene	310		1.6		ppb v/v	8		TO-15	Total/NA
Toluene	8.5		1.6		ppb v/v	8		TO-15	Total/NA
Tetrachloroethene	51		1.6		ppb v/v	8		TO-15	Total/NA
Ethylbenzene	3.0		1.6		ppb v/v	8		TO-15	Total/NA
m,p-Xylene	13		4.0		ppb v/v	8		TO-15	Total/NA
Xylene, o-	3.8		1.6		ppb v/v	8		TO-15	Total/NA
Xylene (total)	17		5.6		ppb v/v	8		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.7		1.6		ppb v/v	8		TO-15	Total/NA
Acetone - DL	1600	D	200		ppb v/v	40		TO-15	Total/NA
Methylene Chloride - DL	21	D	20		ppb v/v	40		TO-15	Total/NA
1,1-Dichloroethane - DL	31	D	8.0		ppb v/v	40		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	19	D	8.0		ppb v/v	40		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	19	D	16		ppb v/v	40		TO-15	Total/NA
1,1,1-Trichloroethane - DL	260	D	8.0		ppb v/v	40		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-02-060122 (Continued)

Lab Sample ID: 200-63678-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	310	D	8.0		ppb v/v	40		TO-15	Total/NA
Toluene - DL	9.9	D	8.0		ppb v/v	40		TO-15	Total/NA
Tetrachloroethene - DL	60	D	8.0		ppb v/v	40		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone) - DL	20	D	20		ppb v/v	40		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	12	D	8.0		ppb v/v	40		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	16		9.5		ug/m3	8		TO-15	Total/NA
Acetone	4800	E	95		ug/m3	8		TO-15	Total/NA
Methylene Chloride	81		14		ug/m3	8		TO-15	Total/NA
1,1-Dichloroethane	130		6.5		ug/m3	8		TO-15	Total/NA
Methyl Ethyl Ketone	35		12		ug/m3	8		TO-15	Total/NA
cis-1,2-Dichloroethene	75		6.3		ug/m3	8		TO-15	Total/NA
1,2-Dichloroethene, Total	75		13		ug/m3	8		TO-15	Total/NA
Chloroform	19		7.8		ug/m3	8		TO-15	Total/NA
1,1,1-Trichloroethane	1600		8.7		ug/m3	8		TO-15	Total/NA
Trichloroethene	1600		8.6		ug/m3	8		TO-15	Total/NA
Toluene	32		6.0		ug/m3	8		TO-15	Total/NA
Tetrachloroethene	350		11		ug/m3	8		TO-15	Total/NA
Ethylbenzene	13		6.9		ug/m3	8		TO-15	Total/NA
m,p-Xylene	55		17		ug/m3	8		TO-15	Total/NA
Xylene, o-	17		6.9		ug/m3	8		TO-15	Total/NA
Xylene (total)	73		24		ug/m3	8		TO-15	Total/NA
1,2,4-Trimethylbenzene	18		7.9		ug/m3	8		TO-15	Total/NA
Acetone - DL	3700	D	480		ug/m3	40		TO-15	Total/NA
Methylene Chloride - DL	72	D	69		ug/m3	40		TO-15	Total/NA
1,1-Dichloroethane - DL	120	D	32		ug/m3	40		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	76	D	32		ug/m3	40		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	75	D	63		ug/m3	40		TO-15	Total/NA
1,1,1-Trichloroethane - DL	1400	D	44		ug/m3	40		TO-15	Total/NA
Trichloroethene - DL	1600	D	43		ug/m3	40		TO-15	Total/NA
Toluene - DL	37	D	30		ug/m3	40		TO-15	Total/NA
Tetrachloroethene - DL	410	D	54		ug/m3	40		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone) - DL	81	D	82		ug/m3	40		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	58	D	39		ug/m3	40		TO-15	Total/NA

Client Sample ID: SV-03-060122

Lab Sample ID: 200-63678-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	3.2		0.50		ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.40		0.20		ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20		ppb v/v	1		TO-15	Total/NA
1,1-Dichloroethene	0.80		0.20		ppb v/v	1		TO-15	Total/NA
Acetone	22		5.0		ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.0		5.0		ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.81		0.50		ppb v/v	1		TO-15	Total/NA
n-Hexane	1.7		0.50		ppb v/v	1		TO-15	Total/NA
1,1-Dichloroethane	1.6		0.20		ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	3.6		0.20		ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	3.6		0.40		ppb v/v	1		TO-15	Total/NA
Chloroform	10		0.20		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-03-060122 (Continued)

Lab Sample ID: 200-63678-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	17		0.20		ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.30		0.20		ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.35		0.20		ppb v/v	1		TO-15	Total/NA
Benzene	1.1		0.20		ppb v/v	1		TO-15	Total/NA
n-Heptane	1.6		0.20		ppb v/v	1		TO-15	Total/NA
Trichloroethene	190	E	0.20		ppb v/v	1		TO-15	Total/NA
Bromodichloromethane	0.46		0.20		ppb v/v	1		TO-15	Total/NA
Toluene	5.7		0.20		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	32		0.20		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	2.8		0.20		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	14		0.50		ppb v/v	1		TO-15	Total/NA
Xylene, o-	3.9		0.20		ppb v/v	1		TO-15	Total/NA
Xylene (total)	18		0.70		ppb v/v	1		TO-15	Total/NA
Styrene	1.0		0.20		ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.66		0.20		ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	1.0		0.20		ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.0		0.20		ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.8		0.20		ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.44		0.20		ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	3.2	D	1.6		ppb v/v	8		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	3.2	D	3.2		ppb v/v	8		TO-15	Total/NA
Chloroform - DL	9.1	D	1.6		ppb v/v	8		TO-15	Total/NA
1,1,1-Trichloroethane - DL	15	D	1.6		ppb v/v	8		TO-15	Total/NA
Trichloroethene - DL	180	D	1.6		ppb v/v	8		TO-15	Total/NA
Toluene - DL	5.4	D	1.6		ppb v/v	8		TO-15	Total/NA
Tetrachloroethene - DL	32	D	1.6		ppb v/v	8		TO-15	Total/NA
Ethylbenzene - DL	2.4	D	1.6		ppb v/v	8		TO-15	Total/NA
m,p-Xylene - DL	12	D	4.0		ppb v/v	8		TO-15	Total/NA
Xylene, o- - DL	3.4	D	1.6		ppb v/v	8		TO-15	Total/NA
Xylene (total) - DL	15	D	5.6		ppb v/v	8		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	3.0	D	1.6		ppb v/v	8		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	7.6		1.2		ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.89		0.44		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1		ug/m3	1		TO-15	Total/NA
1,1-Dichloroethene	3.2		0.79		ug/m3	1		TO-15	Total/NA
Acetone	53		12		ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		12		ug/m3	1		TO-15	Total/NA
Carbon disulfide	2.5		1.6		ug/m3	1		TO-15	Total/NA
n-Hexane	5.9		1.8		ug/m3	1		TO-15	Total/NA
1,1-Dichloroethane	6.5		0.81		ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	14		0.79		ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	14		1.6		ug/m3	1		TO-15	Total/NA
Chloroform	50		0.98		ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	93		1.1		ug/m3	1		TO-15	Total/NA
Cyclohexane	1.0		0.69		ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.6		0.93		ug/m3	1		TO-15	Total/NA
Benzene	3.6		0.64		ug/m3	1		TO-15	Total/NA
n-Heptane	6.5		0.82		ug/m3	1		TO-15	Total/NA
Trichloroethene	1000	E	1.1		ug/m3	1		TO-15	Total/NA
Bromodichloromethane	3.1		1.3		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-03-060122 (Continued) — Lab Sample ID: 200-63678-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	21		0.75		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	220		1.4		ug/m3	1		TO-15	Total/NA
Ethylbenzene	12		0.87		ug/m3	1		TO-15	Total/NA
m,p-Xylene	59		2.2		ug/m3	1		TO-15	Total/NA
Xylene, o-	17		0.87		ug/m3	1		TO-15	Total/NA
Xylene (total)	78		3.0		ug/m3	1		TO-15	Total/NA
Styrene	4.3		0.85		ug/m3	1		TO-15	Total/NA
n-Propylbenzene	3.2		0.98		ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	4.9		0.98		ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	4.9		0.98		ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	19		0.98		ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	2.4		1.1		ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	13	D	6.3		ug/m3	8		TO-15	Total/NA
1,2-Dichloroethene, Total - DL	13	D	13		ug/m3	8		TO-15	Total/NA
Chloroform - DL	44	D	7.8		ug/m3	8		TO-15	Total/NA
1,1,1-Trichloroethane - DL	81	D	8.7		ug/m3	8		TO-15	Total/NA
Trichloroethene - DL	970	D	8.6		ug/m3	8		TO-15	Total/NA
Toluene - DL	20	D	6.0		ug/m3	8		TO-15	Total/NA
Tetrachloroethene - DL	220	D	11		ug/m3	8		TO-15	Total/NA
Ethylbenzene - DL	10	D	6.9		ug/m3	8		TO-15	Total/NA
m,p-Xylene - DL	51	D	17		ug/m3	8		TO-15	Total/NA
Xylene, o- - DL	15	D	6.9		ug/m3	8		TO-15	Total/NA
Xylene (total) - DL	67	D	24		ug/m3	8		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	15	D	7.9		ug/m3	8		TO-15	Total/NA

Client Sample ID: SV-04-060122 — Lab Sample ID: 200-63678-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	6.6		4.5		ppb v/v	9		TO-15	Total/NA
Acetone	250		45		ppb v/v	9		TO-15	Total/NA
Carbon disulfide	6.7		4.5		ppb v/v	9		TO-15	Total/NA
Methylene Chloride	55		4.5		ppb v/v	9		TO-15	Total/NA
1,1-Dichloroethane	12		1.8		ppb v/v	9		TO-15	Total/NA
Methyl Ethyl Ketone	9.1		4.5		ppb v/v	9		TO-15	Total/NA
Chloroform	9.5		1.8		ppb v/v	9		TO-15	Total/NA
1,1,1-Trichloroethane	27		1.8		ppb v/v	9		TO-15	Total/NA
Benzene	6.3		1.8		ppb v/v	9		TO-15	Total/NA
n-Heptane	4.0		1.8		ppb v/v	9		TO-15	Total/NA
Trichloroethene	1200	E	1.8		ppb v/v	9		TO-15	Total/NA
methyl isobutyl ketone	5.1		4.5		ppb v/v	9		TO-15	Total/NA
Toluene	49		1.8		ppb v/v	9		TO-15	Total/NA
Tetrachloroethene	22		1.8		ppb v/v	9		TO-15	Total/NA
Ethylbenzene	2.7		1.8		ppb v/v	9		TO-15	Total/NA
m,p-Xylene	13		4.5		ppb v/v	9		TO-15	Total/NA
Xylene, o-	5.5		1.8		ppb v/v	9		TO-15	Total/NA
Xylene (total)	19		6.3		ppb v/v	9		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.7		1.8		ppb v/v	9		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.2		1.8		ppb v/v	9		TO-15	Total/NA
Acetone - DL	260	D	230		ppb v/v	45.2		TO-15	Total/NA
Methylene Chloride - DL	62	D	23		ppb v/v	45.2		TO-15	Total/NA
1,1-Dichloroethane - DL	13	D	9.0		ppb v/v	45.2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-04-060122 (Continued)

Lab Sample ID: 200-63678-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform - DL	10	D	9.0		ppb v/v	45.2		TO-15	Total/NA
1,1,1-Trichloroethane - DL	29	D	9.0		ppb v/v	45.2		TO-15	Total/NA
Trichloroethene - DL	1400	D	9.0		ppb v/v	45.2		TO-15	Total/NA
Toluene - DL	55	D	9.0		ppb v/v	45.2		TO-15	Total/NA
Tetrachloroethene - DL	25	D	9.0		ppb v/v	45.2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	16		11		ug/m3	9		TO-15	Total/NA
Acetone	600		110		ug/m3	9		TO-15	Total/NA
Carbon disulfide	21		14		ug/m3	9		TO-15	Total/NA
Methylene Chloride	190		16		ug/m3	9		TO-15	Total/NA
1,1-Dichloroethane	50		7.3		ug/m3	9		TO-15	Total/NA
Methyl Ethyl Ketone	27		13		ug/m3	9		TO-15	Total/NA
Chloroform	46		8.8		ug/m3	9		TO-15	Total/NA
1,1,1-Trichloroethane	150		9.8		ug/m3	9		TO-15	Total/NA
Benzene	20		5.8		ug/m3	9		TO-15	Total/NA
n-Heptane	17		7.4		ug/m3	9		TO-15	Total/NA
Trichloroethene	6700	E	9.7		ug/m3	9		TO-15	Total/NA
methyl isobutyl ketone	21		18		ug/m3	9		TO-15	Total/NA
Toluene	180		6.8		ug/m3	9		TO-15	Total/NA
Tetrachloroethene	150		12		ug/m3	9		TO-15	Total/NA
Ethylbenzene	12		7.8		ug/m3	9		TO-15	Total/NA
m,p-Xylene	58		20		ug/m3	9		TO-15	Total/NA
Xylene, o-	24		7.8		ug/m3	9		TO-15	Total/NA
Xylene (total)	80		27		ug/m3	9		TO-15	Total/NA
1,3,5-Trimethylbenzene	13		8.8		ug/m3	9		TO-15	Total/NA
1,2,4-Trimethylbenzene	16		8.8		ug/m3	9		TO-15	Total/NA
Acetone - DL	620	D	540		ug/m3	45.2		TO-15	Total/NA
Methylene Chloride - DL	220	D	79		ug/m3	45.2		TO-15	Total/NA
1,1-Dichloroethane - DL	54	D	37		ug/m3	45.2		TO-15	Total/NA
Chloroform - DL	50	D	44		ug/m3	45.2		TO-15	Total/NA
1,1,1-Trichloroethane - DL	160	D	49		ug/m3	45.2		TO-15	Total/NA
Trichloroethene - DL	7400	D	49		ug/m3	45.2		TO-15	Total/NA
Toluene - DL	210	D	34		ug/m3	45.2		TO-15	Total/NA
Tetrachloroethene - DL	170	D	61		ug/m3	45.2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-01-060122

Date Collected: 06/01/22 11:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-1

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
Freon 22	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
1,2-Dichlorotetrafluoroethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Chloromethane	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
n-Butane	**3.1**		2.5		ppb v/v			06/08/22 02:57	5
Vinyl chloride	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,3-Butadiene	**2.4**		1.0		ppb v/v			06/08/22 02:57	5
Bromomethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Chloroethane	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
Bromoethene(Vinyl Bromide)	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Trichlorofluoromethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Freon TF	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,1-Dichloroethene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Acetone	**230**	**E**	25		ppb v/v			06/08/22 02:57	5
Isopropyl alcohol	25	U	25		ppb v/v			06/08/22 02:57	5
Carbon disulfide	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
3-Chloropropene	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
Methylene Chloride	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
tert-Butyl alcohol	25	U	25		ppb v/v			06/08/22 02:57	5
Methyl tert-butyl ether	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
trans-1,2-Dichloroethene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
n-Hexane	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
1,1-Dichloroethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Methyl Ethyl Ketone	**8.1**		2.5		ppb v/v			06/08/22 02:57	5
cis-1,2-Dichloroethene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,2-Dichloroethene, Total	2.0	U	2.0		ppb v/v			06/08/22 02:57	5
Chloroform	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Tetrahydrofuran	25	U	25		ppb v/v			06/08/22 02:57	5
1,1,1-Trichloroethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Cyclohexane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Carbon tetrachloride	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
2,2,4-Trimethylpentane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Benzene	**1.9**		1.0		ppb v/v			06/08/22 02:57	5
1,2-Dichloroethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
n-Heptane	**31**		1.0		ppb v/v			06/08/22 02:57	5
Trichloroethene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Methyl methacrylate	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
1,2-Dichloropropane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,4-Dioxane	25	U	25		ppb v/v			06/08/22 02:57	5
Bromodichloromethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
cis-1,3-Dichloropropene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
methyl isobutyl ketone	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
Toluene	**5.7**		1.0		ppb v/v			06/08/22 02:57	5
trans-1,3-Dichloropropene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,1,2-Trichloroethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Tetrachloroethene	**11**		1.0		ppb v/v			06/08/22 02:57	5
Methyl Butyl Ketone (2-Hexanone)	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
Dibromochloromethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5

Client Sample ID: SV-01-060122

Date Collected: 06/01/22 11:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-1

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	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Chlorobenzene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Ethylbenzene	**4.0**		1.0		ppb v/v			06/08/22 02:57	5
m,p-Xylene	**20**		2.5		ppb v/v			06/08/22 02:57	5
Xylene, o-	**8.3**		1.0		ppb v/v			06/08/22 02:57	5
Xylene (total)	**28**		3.5		ppb v/v			06/08/22 02:57	5
Styrene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Bromoform	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Cumene	**8.9**		1.0		ppb v/v			06/08/22 02:57	5
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
n-Propylbenzene	**17**		1.0		ppb v/v			06/08/22 02:57	5
4-Ethyltoluene	**15**		1.0		ppb v/v			06/08/22 02:57	5
1,3,5-Trimethylbenzene	**38**		1.0		ppb v/v			06/08/22 02:57	5
2-Chlorotoluene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
tert-Butylbenzene	**8.0**		1.0		ppb v/v			06/08/22 02:57	5
1,2,4-Trimethylbenzene	**59**		1.0		ppb v/v			06/08/22 02:57	5
sec-Butylbenzene	**20**		1.0		ppb v/v			06/08/22 02:57	5
4-Isopropyltoluene	**14**		1.0		ppb v/v			06/08/22 02:57	5
1,3-Dichlorobenzene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,4-Dichlorobenzene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Benzyl chloride	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
n-Butylbenzene	**4.4**		1.0		ppb v/v			06/08/22 02:57	5
1,2-Dichlorobenzene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
1,2,4-Trichlorobenzene	2.5	U	2.5		ppb v/v			06/08/22 02:57	5
Hexachlorobutadiene	1.0	U	1.0		ppb v/v			06/08/22 02:57	5
Naphthalene	2.5	U	2.5		ppb v/v			06/08/22 02:57	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	12	U	12		ug/m3			06/08/22 02:57	5
Freon 22	8.8	U	8.8		ug/m3			06/08/22 02:57	5
1,2-Dichlorotetrafluoroethane	7.0	U	7.0		ug/m3			06/08/22 02:57	5
Chloromethane	5.2	U	5.2		ug/m3			06/08/22 02:57	5
n-Butane	**7.4**		5.9		ug/m3			06/08/22 02:57	5
Vinyl chloride	2.6	U	2.6		ug/m3			06/08/22 02:57	5
1,3-Butadiene	**5.4**		2.2		ug/m3			06/08/22 02:57	5
Bromomethane	3.9	U	3.9		ug/m3			06/08/22 02:57	5
Chloroethane	6.6	U	6.6		ug/m3			06/08/22 02:57	5
Bromoethene(Vinyl Bromide)	4.4	U	4.4		ug/m3			06/08/22 02:57	5
Trichlorofluoromethane	5.6	U	5.6		ug/m3			06/08/22 02:57	5
Freon TF	7.7	U	7.7		ug/m3			06/08/22 02:57	5
1,1-Dichloroethene	4.0	U	4.0		ug/m3			06/08/22 02:57	5
Acetone	**550**	**E**	59		ug/m3			06/08/22 02:57	5
Isopropyl alcohol	61	U	61		ug/m3			06/08/22 02:57	5
Carbon disulfide	7.8	U	7.8		ug/m3			06/08/22 02:57	5
3-Chloropropene	7.8	U	7.8		ug/m3			06/08/22 02:57	5
Methylene Chloride	8.7	U	8.7		ug/m3			06/08/22 02:57	5
tert-Butyl alcohol	76	U	76		ug/m3			06/08/22 02:57	5
Methyl tert-butyl ether	3.6	U	3.6		ug/m3			06/08/22 02:57	5
trans-1,2-Dichloroethene	4.0	U	4.0		ug/m3			06/08/22 02:57	5

Client Sample ID: SV-01-060122

Date Collected: 06/01/22 11:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-1

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	8.8	U	8.8		ug/m3			06/08/22 02:57	5
1,1-Dichloroethane	4.0	U	4.0		ug/m3			06/08/22 02:57	5
Methyl Ethyl Ketone	**24**		7.4		ug/m3			06/08/22 02:57	5
cis-1,2-Dichloroethene	4.0	U	4.0		ug/m3			06/08/22 02:57	5
1,2-Dichloroethene, Total	7.9	U	7.9		ug/m3			06/08/22 02:57	5
Chloroform	4.9	U	4.9		ug/m3			06/08/22 02:57	5
Tetrahydrofuran	74	U	74		ug/m3			06/08/22 02:57	5
1,1,1-Trichloroethane	5.5	U	5.5		ug/m3			06/08/22 02:57	5
Cyclohexane	3.4	U	3.4		ug/m3			06/08/22 02:57	5
Carbon tetrachloride	6.3	U	6.3		ug/m3			06/08/22 02:57	5
2,2,4-Trimethylpentane	4.7	U	4.7		ug/m3			06/08/22 02:57	5
Benzene	**6.0**		3.2		ug/m3			06/08/22 02:57	5
1,2-Dichloroethane	4.0	U	4.0		ug/m3			06/08/22 02:57	5
n-Heptane	**130**		4.1		ug/m3			06/08/22 02:57	5
Trichloroethene	5.4	U	5.4		ug/m3			06/08/22 02:57	5
Methyl methacrylate	10	U	10		ug/m3			06/08/22 02:57	5
1,2-Dichloropropane	4.6	U	4.6		ug/m3			06/08/22 02:57	5
1,4-Dioxane	90	U	90		ug/m3			06/08/22 02:57	5
Bromodichloromethane	6.7	U	6.7		ug/m3			06/08/22 02:57	5
cis-1,3-Dichloropropene	4.5	U	4.5		ug/m3			06/08/22 02:57	5
methyl isobutyl ketone	10	U	10		ug/m3			06/08/22 02:57	5
Toluene	**22**		3.8		ug/m3			06/08/22 02:57	5
trans-1,3-Dichloropropene	4.5	U	4.5		ug/m3			06/08/22 02:57	5
1,1,2-Trichloroethane	5.5	U	5.5		ug/m3			06/08/22 02:57	5
Tetrachloroethene	**74**		6.8		ug/m3			06/08/22 02:57	5
Methyl Butyl Ketone (2-Hexanone)	10	U	10		ug/m3			06/08/22 02:57	5
Dibromochloromethane	8.5	U	8.5		ug/m3			06/08/22 02:57	5
1,2-Dibromoethane	7.7	U	7.7		ug/m3			06/08/22 02:57	5
Chlorobenzene	4.6	U	4.6		ug/m3			06/08/22 02:57	5
Ethylbenzene	**17**		4.3		ug/m3			06/08/22 02:57	5
m,p-Xylene	**88**		11		ug/m3			06/08/22 02:57	5
Xylene, o-	**36**		4.3		ug/m3			06/08/22 02:57	5
Xylene (total)	**120**		15		ug/m3			06/08/22 02:57	5
Styrene	4.3	U	4.3		ug/m3			06/08/22 02:57	5
Bromoform	10	U	10		ug/m3			06/08/22 02:57	5
Cumene	**44**		4.9		ug/m3			06/08/22 02:57	5
1,1,2,2-Tetrachloroethane	6.9	U	6.9		ug/m3			06/08/22 02:57	5
n-Propylbenzene	**81**		4.9		ug/m3			06/08/22 02:57	5
4-Ethyltoluene	**75**		4.9		ug/m3			06/08/22 02:57	5
1,3,5-Trimethylbenzene	**190**		4.9		ug/m3			06/08/22 02:57	5
2-Chlorotoluene	5.2	U	5.2		ug/m3			06/08/22 02:57	5
tert-Butylbenzene	**44**		5.5		ug/m3			06/08/22 02:57	5
1,2,4-Trimethylbenzene	**290**		4.9		ug/m3			06/08/22 02:57	5
sec-Butylbenzene	**110**		5.5		ug/m3			06/08/22 02:57	5
4-Isopropyltoluene	**79**		5.5		ug/m3			06/08/22 02:57	5
1,3-Dichlorobenzene	6.0	U	6.0		ug/m3			06/08/22 02:57	5
1,4-Dichlorobenzene	6.0	U	6.0		ug/m3			06/08/22 02:57	5
Benzyl chloride	5.2	U	5.2		ug/m3			06/08/22 02:57	5

Client Sample ID: SV-01-060122
Date Collected: 06/01/22 11:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-1
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	**24**		5.5		ug/m3			06/08/22 02:57	5
1,2-Dichlorobenzene	6.0	U	6.0		ug/m3			06/08/22 02:57	5
1,2,4-Trichlorobenzene	19	U	19		ug/m3			06/08/22 02:57	5
Hexachlorobutadiene	11	U	11		ug/m3			06/08/22 02:57	5
Naphthalene	13	U	13		ug/m3			06/08/22 02:57	5

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			06/09/22 18:41	10
Freon 22	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Chloromethane	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
n-Butane	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
Vinyl chloride	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,3-Butadiene	**2.5**	**D**	2.0		ppb v/v			06/09/22 18:41	10
Bromomethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Chloroethane	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Trichlorofluoromethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Freon TF	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,1-Dichloroethene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Acetone	**270**	**D**	50		ppb v/v			06/09/22 18:41	10
Isopropyl alcohol	50	U	50		ppb v/v			06/09/22 18:41	10
Carbon disulfide	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
3-Chloropropene	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
Methylene Chloride	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
tert-Butyl alcohol	50	U	50		ppb v/v			06/09/22 18:41	10
Methyl tert-butyl ether	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
trans-1,2-Dichloroethene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
n-Hexane	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
1,1-Dichloroethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Methyl Ethyl Ketone	**8.9**	**D**	5.0		ppb v/v			06/09/22 18:41	10
cis-1,2-Dichloroethene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,2-Dichloroethene, Total	4.0	U	4.0		ppb v/v			06/09/22 18:41	10
Chloroform	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Tetrahydrofuran	50	U	50		ppb v/v			06/09/22 18:41	10
1,1,1-Trichloroethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Cyclohexane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Carbon tetrachloride	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
2,2,4-Trimethylpentane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Benzene	**2.8**	**D**	2.0		ppb v/v			06/09/22 18:41	10
1,2-Dichloroethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
n-Heptane	**41**	**D**	2.0		ppb v/v			06/09/22 18:41	10
Trichloroethene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Methyl methacrylate	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
1,2-Dichloropropane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,4-Dioxane	50	U	50		ppb v/v			06/09/22 18:41	10
Bromodichloromethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
cis-1,3-Dichloropropene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10

Client Sample ID: SV-01-060122
Date Collected: 06/01/22 11:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-1
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 isobutyl ketone	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
Toluene	**8.5**	**D**	2.0		ppb v/v			06/09/22 18:41	10
trans-1,3-Dichloropropene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,1,2-Trichloroethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Tetrachloroethene	**16**	**D**	2.0		ppb v/v			06/09/22 18:41	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
Dibromochloromethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,2-Dibromoethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Chlorobenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Ethylbenzene	**5.7**	**D**	2.0		ppb v/v			06/09/22 18:41	10
m,p-Xylene	**31**	**D**	5.0		ppb v/v			06/09/22 18:41	10
Xylene, o-	**11**	**D**	2.0		ppb v/v			06/09/22 18:41	10
Xylene (total)	**42**	**D**	7.0		ppb v/v			06/09/22 18:41	10
Styrene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Bromoform	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Cumene	**12**	**D**	2.0		ppb v/v			06/09/22 18:41	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
n-Propylbenzene	**21**	**D**	2.0		ppb v/v			06/09/22 18:41	10
4-Ethyltoluene	**19**	**D**	2.0		ppb v/v			06/09/22 18:41	10
1,3,5-Trimethylbenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
2-Chlorotoluene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
tert-Butylbenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,2,4-Trimethylbenzene	**77**	**D**	2.0		ppb v/v			06/09/22 18:41	10
sec-Butylbenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
4-Isopropyltoluene	**18**	**D**	2.0		ppb v/v			06/09/22 18:41	10
1,3-Dichlorobenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,4-Dichlorobenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Benzyl chloride	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
n-Butylbenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,2-Dichlorobenzene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
1,2,4-Trichlorobenzene	5.0	U	5.0		ppb v/v			06/09/22 18:41	10
Hexachlorobutadiene	2.0	U	2.0		ppb v/v			06/09/22 18:41	10
Naphthalene	5.0	U	5.0		ppb v/v			06/09/22 18:41	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25		ug/m3			06/09/22 18:41	10
Freon 22	18	U	18		ug/m3			06/09/22 18:41	10
1,2-Dichlorotetrafluoroethane	14	U	14		ug/m3			06/09/22 18:41	10
Chloromethane	10	U	10		ug/m3			06/09/22 18:41	10
n-Butane	12	U	12		ug/m3			06/09/22 18:41	10
Vinyl chloride	5.1	U	5.1		ug/m3			06/09/22 18:41	10
1,3-Butadiene	**5.6**	**D**	4.4		ug/m3			06/09/22 18:41	10
Bromomethane	7.8	U	7.8		ug/m3			06/09/22 18:41	10
Chloroethane	13	U	13		ug/m3			06/09/22 18:41	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7		ug/m3			06/09/22 18:41	10
Trichlorofluoromethane	11	U	11		ug/m3			06/09/22 18:41	10
Freon TF	15	U	15		ug/m3			06/09/22 18:41	10
1,1-Dichloroethene	7.9	U	7.9		ug/m3			06/09/22 18:41	10
Acetone	**630**	**D**	120		ug/m3			06/09/22 18:41	10

Client Sample ID: SV-01-060122
Date Collected: 06/01/22 11:20
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-1
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	120	U	120		ug/m3			06/09/22 18:41	10
Carbon disulfide	16	U	16		ug/m3			06/09/22 18:41	10
3-Chloropropene	16	U	16		ug/m3			06/09/22 18:41	10
Methylene Chloride	17	U	17		ug/m3			06/09/22 18:41	10
tert-Butyl alcohol	150	U	150		ug/m3			06/09/22 18:41	10
Methyl tert-butyl ether	7.2	U	7.2		ug/m3			06/09/22 18:41	10
trans-1,2-Dichloroethene	7.9	U	7.9		ug/m3			06/09/22 18:41	10
n-Hexane	18	U	18		ug/m3			06/09/22 18:41	10
1,1-Dichloroethane	8.1	U	8.1		ug/m3			06/09/22 18:41	10
Methyl Ethyl Ketone	**26**	**D**	15		ug/m3			06/09/22 18:41	10
cis-1,2-Dichloroethene	7.9	U	7.9		ug/m3			06/09/22 18:41	10
1,2-Dichloroethene, Total	16	U	16		ug/m3			06/09/22 18:41	10
Chloroform	9.8	U	9.8		ug/m3			06/09/22 18:41	10
Tetrahydrofuran	150	U	150		ug/m3			06/09/22 18:41	10
1,1,1-Trichloroethane	11	U	11		ug/m3			06/09/22 18:41	10
Cyclohexane	6.9	U	6.9		ug/m3			06/09/22 18:41	10
Carbon tetrachloride	13	U	13		ug/m3			06/09/22 18:41	10
2,2,4-Trimethylpentane	9.3	U	9.3		ug/m3			06/09/22 18:41	10
Benzene	**8.9**	**D**	6.4		ug/m3			06/09/22 18:41	10
1,2-Dichloroethane	8.1	U	8.1		ug/m3			06/09/22 18:41	10
n-Heptane	**170**	**D**	8.2		ug/m3			06/09/22 18:41	10
Trichloroethene	11	U	11		ug/m3			06/09/22 18:41	10
Methyl methacrylate	20	U	20		ug/m3			06/09/22 18:41	10
1,2-Dichloropropane	9.2	U	9.2		ug/m3			06/09/22 18:41	10
1,4-Dioxane	180	U	180		ug/m3			06/09/22 18:41	10
Bromodichloromethane	13	U	13		ug/m3			06/09/22 18:41	10
cis-1,3-Dichloropropene	9.1	U	9.1		ug/m3			06/09/22 18:41	10
methyl isobutyl ketone	20	U	20		ug/m3			06/09/22 18:41	10
Toluene	**32**	**D**	7.5		ug/m3			06/09/22 18:41	10
trans-1,3-Dichloropropene	9.1	U	9.1		ug/m3			06/09/22 18:41	10
1,1,2-Trichloroethane	11	U	11		ug/m3			06/09/22 18:41	10
Tetrachloroethene	**110**	**D**	14		ug/m3			06/09/22 18:41	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20		ug/m3			06/09/22 18:41	10
Dibromochloromethane	17	U	17		ug/m3			06/09/22 18:41	10
1,2-Dibromoethane	15	U	15		ug/m3			06/09/22 18:41	10
Chlorobenzene	9.2	U	9.2		ug/m3			06/09/22 18:41	10
Ethylbenzene	**25**	**D**	8.7		ug/m3			06/09/22 18:41	10
m,p-Xylene	**130**	**D**	22		ug/m3			06/09/22 18:41	10
Xylene, o-	**49**	**D**	8.7		ug/m3			06/09/22 18:41	10
Xylene (total)	**180**	**D**	30		ug/m3			06/09/22 18:41	10
Styrene	8.5	U	8.5		ug/m3			06/09/22 18:41	10
Bromoform	21	U	21		ug/m3			06/09/22 18:41	10
Cumene	**57**	**D**	9.8		ug/m3			06/09/22 18:41	10
1,1,2,2-Tetrachloroethane	14	U	14		ug/m3			06/09/22 18:41	10
n-Propylbenzene	**100**	**D**	9.8		ug/m3			06/09/22 18:41	10
4-Ethyltoluene	**93**	**D**	9.8		ug/m3			06/09/22 18:41	10
1,3,5-Trimethylbenzene	9.8	U	9.8		ug/m3			06/09/22 18:41	10
2-Chlorotoluene	10	U	10		ug/m3			06/09/22 18:41	10

Client Sample ID: SV-01-060122

Lab Sample ID: 200-63678-1

Date Collected: 06/01/22 11:20
Matrix: Air
Date Received: 06/04/22 09:35
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
tert-Butylbenzene	11	U	11		ug/m3			06/09/22 18:41	10
1,2,4-Trimethylbenzene	**380**	**D**	9.8		ug/m3			06/09/22 18:41	10
sec-Butylbenzene	11	U	11		ug/m3			06/09/22 18:41	10
4-Isopropyltoluene	**97**	**D**	11		ug/m3			06/09/22 18:41	10
1,3-Dichlorobenzene	12	U	12		ug/m3			06/09/22 18:41	10
1,4-Dichlorobenzene	12	U	12		ug/m3			06/09/22 18:41	10
Benzyl chloride	10	U	10		ug/m3			06/09/22 18:41	10
n-Butylbenzene	11	U	11		ug/m3			06/09/22 18:41	10
1,2-Dichlorobenzene	12	U	12		ug/m3			06/09/22 18:41	10
1,2,4-Trichlorobenzene	37	U	37		ug/m3			06/09/22 18:41	10
Hexachlorobutadiene	21	U	21		ug/m3			06/09/22 18:41	10
Naphthalene	26	U	26		ug/m3			06/09/22 18:41	10

Client Sample ID: SV-02-060122

Lab Sample ID: 200-63678-2

Date Collected: 06/01/22 12:15
Matrix: Air
Date Received: 06/04/22 09:35
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	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
Freon 22	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
1,2-Dichlorotetrafluoroethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Chloromethane	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
n-Butane	**6.7**		4.0		ppb v/v			06/08/22 04:02	8
Vinyl chloride	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,3-Butadiene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Bromomethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Chloroethane	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
Bromoethene(Vinyl Bromide)	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Trichlorofluoromethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Freon TF	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,1-Dichloroethene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Acetone	**2000**	**E**	40		ppb v/v			06/08/22 04:02	8
Isopropyl alcohol	40	U	40		ppb v/v			06/08/22 04:02	8
Carbon disulfide	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
3-Chloropropene	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
Methylene Chloride	**23**		4.0		ppb v/v			06/08/22 04:02	8
tert-Butyl alcohol	40	U	40		ppb v/v			06/08/22 04:02	8
Methyl tert-butyl ether	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
trans-1,2-Dichloroethene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
n-Hexane	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
1,1-Dichloroethane	**32**		1.6		ppb v/v			06/08/22 04:02	8
Methyl Ethyl Ketone	**12**		4.0		ppb v/v			06/08/22 04:02	8
cis-1,2-Dichloroethene	**19**		1.6		ppb v/v			06/08/22 04:02	8
1,2-Dichloroethene, Total	**19**		3.2		ppb v/v			06/08/22 04:02	8
Chloroform	**3.8**		1.6		ppb v/v			06/08/22 04:02	8
Tetrahydrofuran	40	U	40		ppb v/v			06/08/22 04:02	8
1,1,1-Trichloroethane	**290**		1.6		ppb v/v			06/08/22 04:02	8

Client Sample ID: SV-02-060122

Date Collected: 06/01/22 12:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-2

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Carbon tetrachloride	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
2,2,4-Trimethylpentane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Benzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,2-Dichloroethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
n-Heptane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Trichloroethene	**310**		1.6		ppb v/v			06/08/22 04:02	8
Methyl methacrylate	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
1,2-Dichloropropane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,4-Dioxane	40	U	40		ppb v/v			06/08/22 04:02	8
Bromodichloromethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
cis-1,3-Dichloropropene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
methyl isobutyl ketone	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
Toluene	**8.5**		1.6		ppb v/v			06/08/22 04:02	8
trans-1,3-Dichloropropene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,1,2-Trichloroethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Tetrachloroethene	**51**		1.6		ppb v/v			06/08/22 04:02	8
Methyl Butyl Ketone (2-Hexanone)	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
Dibromochloromethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,2-Dibromoethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Chlorobenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Ethylbenzene	**3.0**		1.6		ppb v/v			06/08/22 04:02	8
m,p-Xylene	**13**		4.0		ppb v/v			06/08/22 04:02	8
Xylene, o-	**3.8**		1.6		ppb v/v			06/08/22 04:02	8
Xylene (total)	**17**		5.6		ppb v/v			06/08/22 04:02	8
Styrene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Bromoform	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Cumene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,1,2,2-Tetrachloroethane	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
n-Propylbenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
4-Ethyltoluene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,3,5-Trimethylbenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
2-Chlorotoluene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
tert-Butylbenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,2,4-Trimethylbenzene	**3.7**		1.6		ppb v/v			06/08/22 04:02	8
sec-Butylbenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
4-Isopropyltoluene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,3-Dichlorobenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,4-Dichlorobenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Benzyl chloride	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
n-Butylbenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,2-Dichlorobenzene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
1,2,4-Trichlorobenzene	4.0	U	4.0		ppb v/v			06/08/22 04:02	8
Hexachlorobutadiene	1.6	U	1.6		ppb v/v			06/08/22 04:02	8
Naphthalene	4.0	U	4.0		ppb v/v			06/08/22 04:02	8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	20	U	20		ug/m3			06/08/22 04:02	8
Freon 22	14	U	14		ug/m3			06/08/22 04:02	8

Client Sample ID: SV-02-060122

Date Collected: 06/01/22 12:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-2

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-Dichlorotetrafluoroethane	11	U	11		ug/m3			06/08/22 04:02	8
Chloromethane	8.3	U	8.3		ug/m3			06/08/22 04:02	8
n-Butane	**16**		9.5		ug/m3			06/08/22 04:02	8
Vinyl chloride	4.1	U	4.1		ug/m3			06/08/22 04:02	8
1,3-Butadiene	3.5	U	3.5		ug/m3			06/08/22 04:02	8
Bromomethane	6.2	U	6.2		ug/m3			06/08/22 04:02	8
Chloroethane	11	U	11		ug/m3			06/08/22 04:02	8
Bromoethene(Vinyl Bromide)	7.0	U	7.0		ug/m3			06/08/22 04:02	8
Trichlorofluoromethane	9.0	U	9.0		ug/m3			06/08/22 04:02	8
Freon TF	12	U	12		ug/m3			06/08/22 04:02	8
1,1-Dichloroethene	6.3	U	6.3		ug/m3			06/08/22 04:02	8
Acetone	**4800**	**E**	95		ug/m3			06/08/22 04:02	8
Isopropyl alcohol	98	U	98		ug/m3			06/08/22 04:02	8
Carbon disulfide	12	U	12		ug/m3			06/08/22 04:02	8
3-Chloropropene	13	U	13		ug/m3			06/08/22 04:02	8
Methylene Chloride	**81**		14		ug/m3			06/08/22 04:02	8
tert-Butyl alcohol	120	U	120		ug/m3			06/08/22 04:02	8
Methyl tert-butyl ether	5.8	U	5.8		ug/m3			06/08/22 04:02	8
trans-1,2-Dichloroethene	6.3	U	6.3		ug/m3			06/08/22 04:02	8
n-Hexane	14	U	14		ug/m3			06/08/22 04:02	8
1,1-Dichloroethane	**130**		6.5		ug/m3			06/08/22 04:02	8
Methyl Ethyl Ketone	**35**		12		ug/m3			06/08/22 04:02	8
cis-1,2-Dichloroethene	**75**		6.3		ug/m3			06/08/22 04:02	8
1,2-Dichloroethene, Total	**75**		13		ug/m3			06/08/22 04:02	8
Chloroform	**19**		7.8		ug/m3			06/08/22 04:02	8
Tetrahydrofuran	120	U	120		ug/m3			06/08/22 04:02	8
1,1,1-Trichloroethane	**1600**		8.7		ug/m3			06/08/22 04:02	8
Cyclohexane	5.5	U	5.5		ug/m3			06/08/22 04:02	8
Carbon tetrachloride	10	U	10		ug/m3			06/08/22 04:02	8
2,2,4-Trimethylpentane	7.5	U	7.5		ug/m3			06/08/22 04:02	8
Benzene	5.1	U	5.1		ug/m3			06/08/22 04:02	8
1,2-Dichloroethane	6.5	U	6.5		ug/m3			06/08/22 04:02	8
n-Heptane	6.6	U	6.6		ug/m3			06/08/22 04:02	8
Trichloroethene	**1600**		8.6		ug/m3			06/08/22 04:02	8
Methyl methacrylate	16	U	16		ug/m3			06/08/22 04:02	8
1,2-Dichloropropane	7.4	U	7.4		ug/m3			06/08/22 04:02	8
1,4-Dioxane	140	U	140		ug/m3			06/08/22 04:02	8
Bromodichloromethane	11	U	11		ug/m3			06/08/22 04:02	8
cis-1,3-Dichloropropene	7.3	U	7.3		ug/m3			06/08/22 04:02	8
methyl isobutyl ketone	16	U	16		ug/m3			06/08/22 04:02	8
Toluene	**32**		6.0		ug/m3			06/08/22 04:02	8
trans-1,3-Dichloropropene	7.3	U	7.3		ug/m3			06/08/22 04:02	8
1,1,2-Trichloroethane	8.7	U	8.7		ug/m3			06/08/22 04:02	8
Tetrachloroethene	**350**		11		ug/m3			06/08/22 04:02	8
Methyl Butyl Ketone (2-Hexanone)	16	U	16		ug/m3			06/08/22 04:02	8
Dibromochloromethane	14	U	14		ug/m3			06/08/22 04:02	8
1,2-Dibromoethane	12	U	12		ug/m3			06/08/22 04:02	8
Chlorobenzene	7.4	U	7.4		ug/m3			06/08/22 04:02	8

Client Sample ID: SV-02-060122

Date Collected: 06/01/22 12:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-2

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**13**		6.9		ug/m3			06/08/22 04:02	8
m,p-Xylene	**55**		17		ug/m3			06/08/22 04:02	8
Xylene, o-	**17**		6.9		ug/m3			06/08/22 04:02	8
Xylene (total)	**73**		24		ug/m3			06/08/22 04:02	8
Styrene	6.8	U	6.8		ug/m3			06/08/22 04:02	8
Bromoform	17	U	17		ug/m3			06/08/22 04:02	8
Cumene	7.9	U	7.9		ug/m3			06/08/22 04:02	8
1,1,2,2-Tetrachloroethane	11	U	11		ug/m3			06/08/22 04:02	8
n-Propylbenzene	7.9	U	7.9		ug/m3			06/08/22 04:02	8
4-Ethyltoluene	7.9	U	7.9		ug/m3			06/08/22 04:02	8
1,3,5-Trimethylbenzene	7.9	U	7.9		ug/m3			06/08/22 04:02	8
2-Chlorotoluene	8.3	U	8.3		ug/m3			06/08/22 04:02	8
tert-Butylbenzene	8.8	U	8.8		ug/m3			06/08/22 04:02	8
1,2,4-Trimethylbenzene	**18**		7.9		ug/m3			06/08/22 04:02	8
sec-Butylbenzene	8.8	U	8.8		ug/m3			06/08/22 04:02	8
4-Isopropyltoluene	8.8	U	8.8		ug/m3			06/08/22 04:02	8
1,3-Dichlorobenzene	9.6	U	9.6		ug/m3			06/08/22 04:02	8
1,4-Dichlorobenzene	9.6	U	9.6		ug/m3			06/08/22 04:02	8
Benzyl chloride	8.3	U	8.3		ug/m3			06/08/22 04:02	8
n-Butylbenzene	8.8	U	8.8		ug/m3			06/08/22 04:02	8
1,2-Dichlorobenzene	9.6	U	9.6		ug/m3			06/08/22 04:02	8
1,2,4-Trichlorobenzene	30	U	30		ug/m3			06/08/22 04:02	8
Hexachlorobutadiene	17	U	17		ug/m3			06/08/22 04:02	8
Naphthalene	21	U	21		ug/m3			06/08/22 04:02	8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	20	U	20		ppb v/v			06/09/22 19:33	40
Freon 22	20	U	20		ppb v/v			06/09/22 19:33	40
1,2-Dichlorotetrafluoroethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Chloromethane	20	U	20		ppb v/v			06/09/22 19:33	40
n-Butane	20	U	20		ppb v/v			06/09/22 19:33	40
Vinyl chloride	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,3-Butadiene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Bromomethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Chloroethane	20	U	20		ppb v/v			06/09/22 19:33	40
Bromoethene(Vinyl Bromide)	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Trichlorofluoromethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Freon TF	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,1-Dichloroethene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Acetone	**1600**	**D**	200		ppb v/v			06/09/22 19:33	40
Isopropyl alcohol	200	U	200		ppb v/v			06/09/22 19:33	40
Carbon disulfide	20	U	20		ppb v/v			06/09/22 19:33	40
3-Chloropropene	20	U	20		ppb v/v			06/09/22 19:33	40
Methylene Chloride	**21**	**D**	20		ppb v/v			06/09/22 19:33	40
tert-Butyl alcohol	200	U	200		ppb v/v			06/09/22 19:33	40
Methyl tert-butyl ether	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
trans-1,2-Dichloroethene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
n-Hexane	20	U	20		ppb v/v			06/09/22 19:33	40

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-02-060122
Date Collected: 06/01/22 12:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-2
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**31**	**D**	8.0		ppb v/v			06/09/22 19:33	40
Methyl Ethyl Ketone	20	U	20		ppb v/v			06/09/22 19:33	40
cis-1,2-Dichloroethene	**19**	**D**	8.0		ppb v/v			06/09/22 19:33	40
1,2-Dichloroethene, Total	**19**	**D**	16		ppb v/v			06/09/22 19:33	40
Chloroform	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Tetrahydrofuran	200	U	200		ppb v/v			06/09/22 19:33	40
1,1,1-Trichloroethane	**260**	**D**	8.0		ppb v/v			06/09/22 19:33	40
Cyclohexane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Carbon tetrachloride	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
2,2,4-Trimethylpentane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Benzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,2-Dichloroethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
n-Heptane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Trichloroethene	**310**	**D**	8.0		ppb v/v			06/09/22 19:33	40
Methyl methacrylate	20	U	20		ppb v/v			06/09/22 19:33	40
1,2-Dichloropropane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,4-Dioxane	200	U	200		ppb v/v			06/09/22 19:33	40
Bromodichloromethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
cis-1,3-Dichloropropene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
methyl isobutyl ketone	20	U	20		ppb v/v			06/09/22 19:33	40
Toluene	**9.9**	**D**	8.0		ppb v/v			06/09/22 19:33	40
trans-1,3-Dichloropropene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,1,2-Trichloroethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Tetrachloroethene	**60**	**D**	8.0		ppb v/v			06/09/22 19:33	40
Methyl Butyl Ketone (2-Hexanone)	**20**	**D**	20		ppb v/v			06/09/22 19:33	40
Dibromochloromethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,2-Dibromoethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Chlorobenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Ethylbenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
m,p-Xylene	20	U	20		ppb v/v			06/09/22 19:33	40
Xylene, o-	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Xylene (total)	28	U	28		ppb v/v			06/09/22 19:33	40
Styrene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Bromoform	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Cumene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,1,2,2-Tetrachloroethane	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
n-Propylbenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
4-Ethyltoluene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,3,5-Trimethylbenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
2-Chlorotoluene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
tert-Butylbenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,2,4-Trimethylbenzene	**12**	**D**	8.0		ppb v/v			06/09/22 19:33	40
sec-Butylbenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
4-Isopropyltoluene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,3-Dichlorobenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,4-Dichlorobenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Benzyl chloride	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
n-Butylbenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-02-060122
Date Collected: 06/01/22 12:15
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-2
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
1,2,4-Trichlorobenzene	20	U	20		ppb v/v			06/09/22 19:33	40
Hexachlorobutadiene	8.0	U	8.0		ppb v/v			06/09/22 19:33	40
Naphthalene	20	U	20		ppb v/v			06/09/22 19:33	40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	99	U	99		ug/m3			06/09/22 19:33	40
Freon 22	71	U	71		ug/m3			06/09/22 19:33	40
1,2-Dichlorotetrafluoroethane	56	U	56		ug/m3			06/09/22 19:33	40
Chloromethane	41	U	41		ug/m3			06/09/22 19:33	40
n-Butane	48	U	48		ug/m3			06/09/22 19:33	40
Vinyl chloride	20	U	20		ug/m3			06/09/22 19:33	40
1,3-Butadiene	18	U	18		ug/m3			06/09/22 19:33	40
Bromomethane	31	U	31		ug/m3			06/09/22 19:33	40
Chloroethane	53	U	53		ug/m3			06/09/22 19:33	40
Bromoethene(Vinyl Bromide)	35	U	35		ug/m3			06/09/22 19:33	40
Trichlorofluoromethane	45	U	45		ug/m3			06/09/22 19:33	40
Freon TF	61	U	61		ug/m3			06/09/22 19:33	40
1,1-Dichloroethene	32	U	32		ug/m3			06/09/22 19:33	40
Acetone	**3700**	**D**	480		ug/m3			06/09/22 19:33	40
Isopropyl alcohol	490	U	490		ug/m3			06/09/22 19:33	40
Carbon disulfide	62	U	62		ug/m3			06/09/22 19:33	40
3-Chloropropene	63	U	63		ug/m3			06/09/22 19:33	40
Methylene Chloride	**72**	**D**	69		ug/m3			06/09/22 19:33	40
tert-Butyl alcohol	610	U	610		ug/m3			06/09/22 19:33	40
Methyl tert-butyl ether	29	U	29		ug/m3			06/09/22 19:33	40
trans-1,2-Dichloroethene	32	U	32		ug/m3			06/09/22 19:33	40
n-Hexane	70	U	70		ug/m3			06/09/22 19:33	40
1,1-Dichloroethane	**120**	**D**	32		ug/m3			06/09/22 19:33	40
Methyl Ethyl Ketone	59	U	59		ug/m3			06/09/22 19:33	40
cis-1,2-Dichloroethene	**76**	**D**	32		ug/m3			06/09/22 19:33	40
1,2-Dichloroethene, Total	**75**	**D**	63		ug/m3			06/09/22 19:33	40
Chloroform	39	U	39		ug/m3			06/09/22 19:33	40
Tetrahydrofuran	590	U	590		ug/m3			06/09/22 19:33	40
1,1,1-Trichloroethane	**1400**	**D**	44		ug/m3			06/09/22 19:33	40
Cyclohexane	28	U	28		ug/m3			06/09/22 19:33	40
Carbon tetrachloride	50	U	50		ug/m3			06/09/22 19:33	40
2,2,4-Trimethylpentane	37	U	37		ug/m3			06/09/22 19:33	40
Benzene	26	U	26		ug/m3			06/09/22 19:33	40
1,2-Dichloroethane	32	U	32		ug/m3			06/09/22 19:33	40
n-Heptane	33	U	33		ug/m3			06/09/22 19:33	40
Trichloroethene	**1600**	**D**	43		ug/m3			06/09/22 19:33	40
Methyl methacrylate	82	U	82		ug/m3			06/09/22 19:33	40
1,2-Dichloropropane	37	U	37		ug/m3			06/09/22 19:33	40
1,4-Dioxane	720	U	720		ug/m3			06/09/22 19:33	40
Bromodichloromethane	54	U	54		ug/m3			06/09/22 19:33	40
cis-1,3-Dichloropropene	36	U	36		ug/m3			06/09/22 19:33	40
methyl isobutyl ketone	82	U	82		ug/m3			06/09/22 19:33	40
Toluene	**37**	**D**	30		ug/m3			06/09/22 19:33	40

Client Sample ID: SV-02-060122

Lab Sample ID: 200-63678-2

Date Collected: 06/01/22 12:15
Matrix: Air
Date Received: 06/04/22 09:35
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
trans-1,3-Dichloropropene	36	U	36		ug/m3			06/09/22 19:33	40
1,1,2-Trichloroethane	44	U	44		ug/m3			06/09/22 19:33	40
Tetrachloroethene	**410**	**D**	54		ug/m3			06/09/22 19:33	40
Methyl Butyl Ketone (2-Hexanone)	**81**	**D**	82		ug/m3			06/09/22 19:33	40
Dibromochloromethane	68	U	68		ug/m3			06/09/22 19:33	40
1,2-Dibromoethane	61	U	61		ug/m3			06/09/22 19:33	40
Chlorobenzene	37	U	37		ug/m3			06/09/22 19:33	40
Ethylbenzene	35	U	35		ug/m3			06/09/22 19:33	40
m,p-Xylene	87	U	87		ug/m3			06/09/22 19:33	40
Xylene, o-	35	U	35		ug/m3			06/09/22 19:33	40
Xylene (total)	120	U	120		ug/m3			06/09/22 19:33	40
Styrene	34	U	34		ug/m3			06/09/22 19:33	40
Bromoform	83	U	83		ug/m3			06/09/22 19:33	40
Cumene	39	U	39		ug/m3			06/09/22 19:33	40
1,1,2,2-Tetrachloroethane	55	U	55		ug/m3			06/09/22 19:33	40
n-Propylbenzene	39	U	39		ug/m3			06/09/22 19:33	40
4-Ethyltoluene	39	U	39		ug/m3			06/09/22 19:33	40
1,3,5-Trimethylbenzene	39	U	39		ug/m3			06/09/22 19:33	40
2-Chlorotoluene	41	U	41		ug/m3			06/09/22 19:33	40
tert-Butylbenzene	44	U	44		ug/m3			06/09/22 19:33	40
1,2,4-Trimethylbenzene	**58**	**D**	39		ug/m3			06/09/22 19:33	40
sec-Butylbenzene	44	U	44		ug/m3			06/09/22 19:33	40
4-Isopropyltoluene	44	U	44		ug/m3			06/09/22 19:33	40
1,3-Dichlorobenzene	48	U	48		ug/m3			06/09/22 19:33	40
1,4-Dichlorobenzene	48	U	48		ug/m3			06/09/22 19:33	40
Benzyl chloride	41	U	41		ug/m3			06/09/22 19:33	40
n-Butylbenzene	44	U	44		ug/m3			06/09/22 19:33	40
1,2-Dichlorobenzene	48	U	48		ug/m3			06/09/22 19:33	40
1,2,4-Trichlorobenzene	150	U	150		ug/m3			06/09/22 19:33	40
Hexachlorobutadiene	85	U	85		ug/m3			06/09/22 19:33	40
Naphthalene	100	U	100		ug/m3			06/09/22 19:33	40

Client Sample ID: SV-03-060122

Lab Sample ID: 200-63678-3

Date Collected: 06/01/22 10:10
Matrix: Air
Date Received: 06/04/22 09:35
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	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
Freon 22	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Chloromethane	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
n-Butane	**3.2**		0.50		ppb v/v			06/09/22 20:25	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,3-Butadiene	**0.40**		0.20		ppb v/v			06/09/22 20:25	1
Bromomethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Chloroethane	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/09/22 20:25	1

Client Sample ID: SV-03-060122

Date Collected: 06/01/22 10:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-3

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**0.23**		0.20		ppb v/v			06/09/22 20:25	1
Freon TF	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,1-Dichloroethene	**0.80**		0.20		ppb v/v			06/09/22 20:25	1
Acetone	**22**		5.0		ppb v/v			06/09/22 20:25	1
Isopropyl alcohol	**5.0**		5.0		ppb v/v			06/09/22 20:25	1
Carbon disulfide	**0.81**		0.50		ppb v/v			06/09/22 20:25	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
Methylene Chloride	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/09/22 20:25	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
n-Hexane	**1.7**		0.50		ppb v/v			06/09/22 20:25	1
1,1-Dichloroethane	**1.6**		0.20		ppb v/v			06/09/22 20:25	1
Methyl Ethyl Ketone	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
cis-1,2-Dichloroethene	**3.6**		0.20		ppb v/v			06/09/22 20:25	1
1,2-Dichloroethene, Total	**3.6**		0.40		ppb v/v			06/09/22 20:25	1
Chloroform	**10**		0.20		ppb v/v			06/09/22 20:25	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/09/22 20:25	1
1,1,1-Trichloroethane	**17**		0.20		ppb v/v			06/09/22 20:25	1
Cyclohexane	**0.30**		0.20		ppb v/v			06/09/22 20:25	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
2,2,4-Trimethylpentane	**0.35**		0.20		ppb v/v			06/09/22 20:25	1
Benzene	**1.1**		0.20		ppb v/v			06/09/22 20:25	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
n-Heptane	**1.6**		0.20		ppb v/v			06/09/22 20:25	1
Trichloroethene	**190**	**E**	0.20		ppb v/v			06/09/22 20:25	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/09/22 20:25	1
Bromodichloromethane	**0.46**		0.20		ppb v/v			06/09/22 20:25	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
Toluene	**5.7**		0.20		ppb v/v			06/09/22 20:25	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Tetrachloroethene	**32**		0.20		ppb v/v			06/09/22 20:25	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Ethylbenzene	**2.8**		0.20		ppb v/v			06/09/22 20:25	1
m,p-Xylene	**14**		0.50		ppb v/v			06/09/22 20:25	1
Xylene, o-	**3.9**		0.20		ppb v/v			06/09/22 20:25	1
Xylene (total)	**18**		0.70		ppb v/v			06/09/22 20:25	1
Styrene	**1.0**		0.20		ppb v/v			06/09/22 20:25	1
Bromoform	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Cumene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/09/22 20:25	1

Client Sample ID: SV-03-060122

Date Collected: 06/01/22 10:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-3

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	**0.66**		0.20		ppb v/v			06/09/22 20:25	1
4-Ethyltoluene	**1.0**		0.20		ppb v/v			06/09/22 20:25	1
1,3,5-Trimethylbenzene	**1.0**		0.20		ppb v/v			06/09/22 20:25	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,2,4-Trimethylbenzene	**3.8**		0.20		ppb v/v			06/09/22 20:25	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
4-Isopropyltoluene	**0.44**		0.20		ppb v/v			06/09/22 20:25	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ppb v/v			06/09/22 20:25	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/09/22 20:25	1
Naphthalene	0.50	U	0.50		ppb v/v			06/09/22 20:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/09/22 20:25	1
Freon 22	1.8	U	1.8		ug/m3			06/09/22 20:25	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/09/22 20:25	1
Chloromethane	1.0	U	1.0		ug/m3			06/09/22 20:25	1
n-Butane	**7.6**		1.2		ug/m3			06/09/22 20:25	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/09/22 20:25	1
1,3-Butadiene	**0.89**		0.44		ug/m3			06/09/22 20:25	1
Bromomethane	0.78	U	0.78		ug/m3			06/09/22 20:25	1
Chloroethane	1.3	U	1.3		ug/m3			06/09/22 20:25	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/09/22 20:25	1
Trichlorofluoromethane	**1.3**		1.1		ug/m3			06/09/22 20:25	1
Freon TF	1.5	U	1.5		ug/m3			06/09/22 20:25	1
1,1-Dichloroethene	**3.2**		0.79		ug/m3			06/09/22 20:25	1
Acetone	**53**		12		ug/m3			06/09/22 20:25	1
Isopropyl alcohol	**12**		12		ug/m3			06/09/22 20:25	1
Carbon disulfide	**2.5**		1.6		ug/m3			06/09/22 20:25	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/09/22 20:25	1
Methylene Chloride	1.7	U	1.7		ug/m3			06/09/22 20:25	1
tert-Butyl alcohol	15	U	15		ug/m3			06/09/22 20:25	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/09/22 20:25	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/09/22 20:25	1
n-Hexane	**5.9**		1.8		ug/m3			06/09/22 20:25	1
1,1-Dichloroethane	**6.5**		0.81		ug/m3			06/09/22 20:25	1
Methyl Ethyl Ketone	1.5	U	1.5		ug/m3			06/09/22 20:25	1
cis-1,2-Dichloroethene	**14**		0.79		ug/m3			06/09/22 20:25	1
1,2-Dichloroethene, Total	**14**		1.6		ug/m3			06/09/22 20:25	1
Chloroform	**50**		0.98		ug/m3			06/09/22 20:25	1
Tetrahydrofuran	15	U	15		ug/m3			06/09/22 20:25	1
1,1,1-Trichloroethane	**93**		1.1		ug/m3			06/09/22 20:25	1
Cyclohexane	**1.0**		0.69		ug/m3			06/09/22 20:25	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/09/22 20:25	1

Client Sample ID: SV-03-060122

Date Collected: 06/01/22 10:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-3

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	**1.6**		0.93		ug/m3			06/09/22 20:25	1
Benzene	**3.6**		0.64		ug/m3			06/09/22 20:25	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/09/22 20:25	1
n-Heptane	**6.5**		0.82		ug/m3			06/09/22 20:25	1
Trichloroethene	**1000**	**E**	1.1		ug/m3			06/09/22 20:25	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/09/22 20:25	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/09/22 20:25	1
1,4-Dioxane	18	U	18		ug/m3			06/09/22 20:25	1
Bromodichloromethane	**3.1**		1.3		ug/m3			06/09/22 20:25	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/09/22 20:25	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/09/22 20:25	1
Toluene	**21**		0.75		ug/m3			06/09/22 20:25	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/09/22 20:25	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/09/22 20:25	1
Tetrachloroethene	**220**		1.4		ug/m3			06/09/22 20:25	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/09/22 20:25	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/09/22 20:25	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/09/22 20:25	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/09/22 20:25	1
Ethylbenzene	**12**		0.87		ug/m3			06/09/22 20:25	1
m,p-Xylene	**59**		2.2		ug/m3			06/09/22 20:25	1
Xylene, o-	**17**		0.87		ug/m3			06/09/22 20:25	1
Xylene (total)	**78**		3.0		ug/m3			06/09/22 20:25	1
Styrene	**4.3**		0.85		ug/m3			06/09/22 20:25	1
Bromoform	2.1	U	2.1		ug/m3			06/09/22 20:25	1
Cumene	0.98	U	0.98		ug/m3			06/09/22 20:25	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/09/22 20:25	1
n-Propylbenzene	**3.2**		0.98		ug/m3			06/09/22 20:25	1
4-Ethyltoluene	**4.9**		0.98		ug/m3			06/09/22 20:25	1
1,3,5-Trimethylbenzene	**4.9**		0.98		ug/m3			06/09/22 20:25	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/09/22 20:25	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/09/22 20:25	1
1,2,4-Trimethylbenzene	**19**		0.98		ug/m3			06/09/22 20:25	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/09/22 20:25	1
4-Isopropyltoluene	**2.4**		1.1		ug/m3			06/09/22 20:25	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/09/22 20:25	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/09/22 20:25	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/09/22 20:25	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/09/22 20:25	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/09/22 20:25	1
1,2,4-Trichlorobenzene	3.7	U	3.7		ug/m3			06/09/22 20:25	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/09/22 20:25	1
Naphthalene	2.6	U	2.6		ug/m3			06/09/22 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Freon 22	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
1,2-Dichlorotetrafluoroethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8

Client Sample ID: SV-03-060122
Date Collected: 06/01/22 10:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
n-Butane	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Vinyl chloride	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,3-Butadiene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Bromomethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Chloroethane	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Bromoethene(Vinyl Bromide)	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Trichlorofluoromethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Freon TF	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,1-Dichloroethene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Acetone	40	U	40		ppb v/v			06/09/22 21:17	8
Isopropyl alcohol	40	U	40		ppb v/v			06/09/22 21:17	8
Carbon disulfide	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
3-Chloropropene	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Methylene Chloride	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
tert-Butyl alcohol	40	U	40		ppb v/v			06/09/22 21:17	8
Methyl tert-butyl ether	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
trans-1,2-Dichloroethene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
n-Hexane	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
1,1-Dichloroethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Methyl Ethyl Ketone	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
cis-1,2-Dichloroethene	**3.2**	**D**	1.6		ppb v/v			06/09/22 21:17	8
1,2-Dichloroethene, Total	**3.2**	**D**	3.2		ppb v/v			06/09/22 21:17	8
Chloroform	**9.1**	**D**	1.6		ppb v/v			06/09/22 21:17	8
Tetrahydrofuran	40	U	40		ppb v/v			06/09/22 21:17	8
1,1,1-Trichloroethane	**15**	**D**	1.6		ppb v/v			06/09/22 21:17	8
Cyclohexane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Carbon tetrachloride	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
2,2,4-Trimethylpentane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Benzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,2-Dichloroethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
n-Heptane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Trichloroethene	**180**	**D**	1.6		ppb v/v			06/09/22 21:17	8
Methyl methacrylate	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
1,2-Dichloropropane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,4-Dioxane	40	U	40		ppb v/v			06/09/22 21:17	8
Bromodichloromethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
cis-1,3-Dichloropropene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
methyl isobutyl ketone	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Toluene	**5.4**	**D**	1.6		ppb v/v			06/09/22 21:17	8
trans-1,3-Dichloropropene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,1,2-Trichloroethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Tetrachloroethene	**32**	**D**	1.6		ppb v/v			06/09/22 21:17	8
Methyl Butyl Ketone (2-Hexanone)	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Dibromochloromethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,2-Dibromoethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Chlorobenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Ethylbenzene	**2.4**	**D**	1.6		ppb v/v			06/09/22 21:17	8

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-03-060122
Date Collected: 06/01/22 10:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	**12**	**D**	4.0		ppb v/v			06/09/22 21:17	8
Xylene, o-	**3.4**	**D**	1.6		ppb v/v			06/09/22 21:17	8
Xylene (total)	**15**	**D**	5.6		ppb v/v			06/09/22 21:17	8
Styrene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Bromoform	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Cumene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,1,2,2-Tetrachloroethane	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
n-Propylbenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
4-Ethyltoluene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,3,5-Trimethylbenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
2-Chlorotoluene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
tert-Butylbenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,2,4-Trimethylbenzene	**3.0**	**D**	1.6		ppb v/v			06/09/22 21:17	8
sec-Butylbenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
4-Isopropyltoluene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,3-Dichlorobenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,4-Dichlorobenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Benzyl chloride	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
n-Butylbenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,2-Dichlorobenzene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
1,2,4-Trichlorobenzene	4.0	U	4.0		ppb v/v			06/09/22 21:17	8
Hexachlorobutadiene	1.6	U	1.6		ppb v/v			06/09/22 21:17	8
Naphthalene	4.0	U	4.0		ppb v/v			06/09/22 21:17	8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	20	U	20		ug/m3			06/09/22 21:17	8
Freon 22	14	U	14		ug/m3			06/09/22 21:17	8
1,2-Dichlorotetrafluoroethane	11	U	11		ug/m3			06/09/22 21:17	8
Chloromethane	8.3	U	8.3		ug/m3			06/09/22 21:17	8
n-Butane	9.5	U	9.5		ug/m3			06/09/22 21:17	8
Vinyl chloride	4.1	U	4.1		ug/m3			06/09/22 21:17	8
1,3-Butadiene	3.5	U	3.5		ug/m3			06/09/22 21:17	8
Bromomethane	6.2	U	6.2		ug/m3			06/09/22 21:17	8
Chloroethane	11	U	11		ug/m3			06/09/22 21:17	8
Bromoethene(Vinyl Bromide)	7.0	U	7.0		ug/m3			06/09/22 21:17	8
Trichlorofluoromethane	9.0	U	9.0		ug/m3			06/09/22 21:17	8
Freon TF	12	U	12		ug/m3			06/09/22 21:17	8
1,1-Dichloroethene	6.3	U	6.3		ug/m3			06/09/22 21:17	8
Acetone	95	U	95		ug/m3			06/09/22 21:17	8
Isopropyl alcohol	98	U	98		ug/m3			06/09/22 21:17	8
Carbon disulfide	12	U	12		ug/m3			06/09/22 21:17	8
3-Chloropropene	13	U	13		ug/m3			06/09/22 21:17	8
Methylene Chloride	14	U	14		ug/m3			06/09/22 21:17	8
tert-Butyl alcohol	120	U	120		ug/m3			06/09/22 21:17	8
Methyl tert-butyl ether	5.8	U	5.8		ug/m3			06/09/22 21:17	8
trans-1,2-Dichloroethene	6.3	U	6.3		ug/m3			06/09/22 21:17	8
n-Hexane	14	U	14		ug/m3			06/09/22 21:17	8
1,1-Dichloroethane	6.5	U	6.5		ug/m3			06/09/22 21:17	8
Methyl Ethyl Ketone	12	U	12		ug/m3			06/09/22 21:17	8

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-03-060122
Date Collected: 06/01/22 10:10
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**13**	**D**	6.3		ug/m3			06/09/22 21:17	8
1,2-Dichloroethene, Total	**13**	**D**	13		ug/m3			06/09/22 21:17	8
Chloroform	**44**	**D**	7.8		ug/m3			06/09/22 21:17	8
Tetrahydrofuran	120	U	120		ug/m3			06/09/22 21:17	8
1,1,1-Trichloroethane	**81**	**D**	8.7		ug/m3			06/09/22 21:17	8
Cyclohexane	5.5	U	5.5		ug/m3			06/09/22 21:17	8
Carbon tetrachloride	10	U	10		ug/m3			06/09/22 21:17	8
2,2,4-Trimethylpentane	7.5	U	7.5		ug/m3			06/09/22 21:17	8
Benzene	5.1	U	5.1		ug/m3			06/09/22 21:17	8
1,2-Dichloroethane	6.5	U	6.5		ug/m3			06/09/22 21:17	8
n-Heptane	6.6	U	6.6		ug/m3			06/09/22 21:17	8
Trichloroethene	**970**	**D**	8.6		ug/m3			06/09/22 21:17	8
Methyl methacrylate	16	U	16		ug/m3			06/09/22 21:17	8
1,2-Dichloropropane	7.4	U	7.4		ug/m3			06/09/22 21:17	8
1,4-Dioxane	140	U	140		ug/m3			06/09/22 21:17	8
Bromodichloromethane	11	U	11		ug/m3			06/09/22 21:17	8
cis-1,3-Dichloropropene	7.3	U	7.3		ug/m3			06/09/22 21:17	8
methyl isobutyl ketone	16	U	16		ug/m3			06/09/22 21:17	8
Toluene	**20**	**D**	6.0		ug/m3			06/09/22 21:17	8
trans-1,3-Dichloropropene	7.3	U	7.3		ug/m3			06/09/22 21:17	8
1,1,2-Trichloroethane	8.7	U	8.7		ug/m3			06/09/22 21:17	8
Tetrachloroethene	**220**	**D**	11		ug/m3			06/09/22 21:17	8
Methyl Butyl Ketone (2-Hexanone)	16	U	16		ug/m3			06/09/22 21:17	8
Dibromochloromethane	14	U	14		ug/m3			06/09/22 21:17	8
1,2-Dibromoethane	12	U	12		ug/m3			06/09/22 21:17	8
Chlorobenzene	7.4	U	7.4		ug/m3			06/09/22 21:17	8
Ethylbenzene	**10**	**D**	6.9		ug/m3			06/09/22 21:17	8
m,p-Xylene	**51**	**D**	17		ug/m3			06/09/22 21:17	8
Xylene, o-	**15**	**D**	6.9		ug/m3			06/09/22 21:17	8
Xylene (total)	**67**	**D**	24		ug/m3			06/09/22 21:17	8
Styrene	6.8	U	6.8		ug/m3			06/09/22 21:17	8
Bromoform	17	U	17		ug/m3			06/09/22 21:17	8
Cumene	7.9	U	7.9		ug/m3			06/09/22 21:17	8
1,1,2,2-Tetrachloroethane	11	U	11		ug/m3			06/09/22 21:17	8
n-Propylbenzene	7.9	U	7.9		ug/m3			06/09/22 21:17	8
4-Ethyltoluene	7.9	U	7.9		ug/m3			06/09/22 21:17	8
1,3,5-Trimethylbenzene	7.9	U	7.9		ug/m3			06/09/22 21:17	8
2-Chlorotoluene	8.3	U	8.3		ug/m3			06/09/22 21:17	8
tert-Butylbenzene	8.8	U	8.8		ug/m3			06/09/22 21:17	8
1,2,4-Trimethylbenzene	**15**	**D**	7.9		ug/m3			06/09/22 21:17	8
sec-Butylbenzene	8.8	U	8.8		ug/m3			06/09/22 21:17	8
4-Isopropyltoluene	8.8	U	8.8		ug/m3			06/09/22 21:17	8
1,3-Dichlorobenzene	9.6	U	9.6		ug/m3			06/09/22 21:17	8
1,4-Dichlorobenzene	9.6	U	9.6		ug/m3			06/09/22 21:17	8
Benzyl chloride	8.3	U	8.3		ug/m3			06/09/22 21:17	8
n-Butylbenzene	8.8	U	8.8		ug/m3			06/09/22 21:17	8
1,2-Dichlorobenzene	9.6	U	9.6		ug/m3			06/09/22 21:17	8
1,2,4-Trichlorobenzene	30	U	30		ug/m3			06/09/22 21:17	8

Client Sample ID: SV-03-060122

Lab Sample ID: 200-63678-3

Date Collected: 06/01/22 10:10
Matrix: Air
Date Received: 06/04/22 09:35
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
Hexachlorobutadiene	17	U	17		ug/m3			06/09/22 21:17	8
Naphthalene	21	U	21		ug/m3			06/09/22 21:17	8

Client Sample ID: SV-04-060122

Lab Sample ID: 200-63678-4

Date Collected: 06/01/22 09:40
Matrix: Air
Date Received: 06/04/22 09:35
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	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
Freon 22	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
1,2-Dichlorotetrafluoroethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Chloromethane	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
n-Butane	**6.6**		4.5		ppb v/v			06/09/22 22:10	9
Vinyl chloride	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,3-Butadiene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Bromomethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Chloroethane	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
Bromoethene(Vinyl Bromide)	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Trichlorofluoromethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Freon TF	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,1-Dichloroethene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Acetone	**250**		45		ppb v/v			06/09/22 22:10	9
Isopropyl alcohol	45	U	45		ppb v/v			06/09/22 22:10	9
Carbon disulfide	**6.7**		4.5		ppb v/v			06/09/22 22:10	9
3-Chloropropene	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
Methylene Chloride	**55**		4.5		ppb v/v			06/09/22 22:10	9
tert-Butyl alcohol	45	U	45		ppb v/v			06/09/22 22:10	9
Methyl tert-butyl ether	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
trans-1,2-Dichloroethene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
n-Hexane	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
1,1-Dichloroethane	**12**		1.8		ppb v/v			06/09/22 22:10	9
Methyl Ethyl Ketone	**9.1**		4.5		ppb v/v			06/09/22 22:10	9
cis-1,2-Dichloroethene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,2-Dichloroethene, Total	3.6	U	3.6		ppb v/v			06/09/22 22:10	9
Chloroform	**9.5**		1.8		ppb v/v			06/09/22 22:10	9
Tetrahydrofuran	45	U	45		ppb v/v			06/09/22 22:10	9
1,1,1-Trichloroethane	**27**		1.8		ppb v/v			06/09/22 22:10	9
Cyclohexane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Carbon tetrachloride	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
2,2,4-Trimethylpentane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Benzene	**6.3**		1.8		ppb v/v			06/09/22 22:10	9
1,2-Dichloroethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
n-Heptane	**4.0**		1.8		ppb v/v			06/09/22 22:10	9
Trichloroethene	**1200**	**E**	1.8		ppb v/v			06/09/22 22:10	9
Methyl methacrylate	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
1,2-Dichloropropane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,4-Dioxane	45	U	45		ppb v/v			06/09/22 22:10	9

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-04-060122
Date Collected: 06/01/22 09:40
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
cis-1,3-Dichloropropene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
methyl isobutyl ketone	**5.1**		4.5		ppb v/v			06/09/22 22:10	9
Toluene	**49**		1.8		ppb v/v			06/09/22 22:10	9
trans-1,3-Dichloropropene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,1,2-Trichloroethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Tetrachloroethene	**22**		1.8		ppb v/v			06/09/22 22:10	9
Methyl Butyl Ketone (2-Hexanone)	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
Dibromochloromethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,2-Dibromoethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Chlorobenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Ethylbenzene	**2.7**		1.8		ppb v/v			06/09/22 22:10	9
m,p-Xylene	**13**		4.5		ppb v/v			06/09/22 22:10	9
Xylene, o-	**5.5**		1.8		ppb v/v			06/09/22 22:10	9
Xylene (total)	**19**		6.3		ppb v/v			06/09/22 22:10	9
Styrene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Bromoform	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Cumene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,1,2,2-Tetrachloroethane	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
n-Propylbenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
4-Ethyltoluene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,3,5-Trimethylbenzene	**2.7**		1.8		ppb v/v			06/09/22 22:10	9
2-Chlorotoluene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
tert-Butylbenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,2,4-Trimethylbenzene	**3.2**		1.8		ppb v/v			06/09/22 22:10	9
sec-Butylbenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
4-Isopropyltoluene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,3-Dichlorobenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,4-Dichlorobenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Benzyl chloride	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
n-Butylbenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,2-Dichlorobenzene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
1,2,4-Trichlorobenzene	4.5	U	4.5		ppb v/v			06/09/22 22:10	9
Hexachlorobutadiene	1.8	U	1.8		ppb v/v			06/09/22 22:10	9
Naphthalene	4.5	U	4.5		ppb v/v			06/09/22 22:10	9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	22	U	22		ug/m3			06/09/22 22:10	9
Freon 22	16	U	16		ug/m3			06/09/22 22:10	9
1,2-Dichlorotetrafluoroethane	13	U	13		ug/m3			06/09/22 22:10	9
Chloromethane	9.3	U	9.3		ug/m3			06/09/22 22:10	9
n-Butane	**16**		11		ug/m3			06/09/22 22:10	9
Vinyl chloride	4.6	U	4.6		ug/m3			06/09/22 22:10	9
1,3-Butadiene	4.0	U	4.0		ug/m3			06/09/22 22:10	9
Bromomethane	7.0	U	7.0		ug/m3			06/09/22 22:10	9
Chloroethane	12	U	12		ug/m3			06/09/22 22:10	9
Bromoethene(Vinyl Bromide)	7.9	U	7.9		ug/m3			06/09/22 22:10	9
Trichlorofluoromethane	10	U	10		ug/m3			06/09/22 22:10	9
Freon TF	14	U	14		ug/m3			06/09/22 22:10	9

Client Sample ID: SV-04-060122
Date Collected: 06/01/22 09:40
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-4
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-Dichloroethene	7.1	U	7.1		ug/m3			06/09/22 22:10	9
Acetone	**600**		110		ug/m3			06/09/22 22:10	9
Isopropyl alcohol	110	U	110		ug/m3			06/09/22 22:10	9
Carbon disulfide	**21**		14		ug/m3			06/09/22 22:10	9
3-Chloropropene	14	U	14		ug/m3			06/09/22 22:10	9
Methylene Chloride	**190**		16		ug/m3			06/09/22 22:10	9
tert-Butyl alcohol	140	U	140		ug/m3			06/09/22 22:10	9
Methyl tert-butyl ether	6.5	U	6.5		ug/m3			06/09/22 22:10	9
trans-1,2-Dichloroethene	7.1	U	7.1		ug/m3			06/09/22 22:10	9
n-Hexane	16	U	16		ug/m3			06/09/22 22:10	9
1,1-Dichloroethane	**50**		7.3		ug/m3			06/09/22 22:10	9
Methyl Ethyl Ketone	**27**		13		ug/m3			06/09/22 22:10	9
cis-1,2-Dichloroethene	7.1	U	7.1		ug/m3			06/09/22 22:10	9
1,2-Dichloroethene, Total	14	U	14		ug/m3			06/09/22 22:10	9
Chloroform	**46**		8.8		ug/m3			06/09/22 22:10	9
Tetrahydrofuran	130	U	130		ug/m3			06/09/22 22:10	9
1,1,1-Trichloroethane	**150**		9.8		ug/m3			06/09/22 22:10	9
Cyclohexane	6.2	U	6.2		ug/m3			06/09/22 22:10	9
Carbon tetrachloride	11	U	11		ug/m3			06/09/22 22:10	9
2,2,4-Trimethylpentane	8.4	U	8.4		ug/m3			06/09/22 22:10	9
Benzene	**20**		5.8		ug/m3			06/09/22 22:10	9
1,2-Dichloroethane	7.3	U	7.3		ug/m3			06/09/22 22:10	9
n-Heptane	**17**		7.4		ug/m3			06/09/22 22:10	9
Trichloroethene	**6700**	**E**	9.7		ug/m3			06/09/22 22:10	9
Methyl methacrylate	18	U	18		ug/m3			06/09/22 22:10	9
1,2-Dichloropropane	8.3	U	8.3		ug/m3			06/09/22 22:10	9
1,4-Dioxane	160	U	160		ug/m3			06/09/22 22:10	9
Bromodichloromethane	12	U	12		ug/m3			06/09/22 22:10	9
cis-1,3-Dichloropropene	8.2	U	8.2		ug/m3			06/09/22 22:10	9
methyl isobutyl ketone	**21**		18		ug/m3			06/09/22 22:10	9
Toluene	**180**		6.8		ug/m3			06/09/22 22:10	9
trans-1,3-Dichloropropene	8.2	U	8.2		ug/m3			06/09/22 22:10	9
1,1,2-Trichloroethane	9.8	U	9.8		ug/m3			06/09/22 22:10	9
Tetrachloroethene	**150**		12		ug/m3			06/09/22 22:10	9
Methyl Butyl Ketone (2-Hexanone)	18	U	18		ug/m3			06/09/22 22:10	9
Dibromochloromethane	15	U	15		ug/m3			06/09/22 22:10	9
1,2-Dibromoethane	14	U	14		ug/m3			06/09/22 22:10	9
Chlorobenzene	8.3	U	8.3		ug/m3			06/09/22 22:10	9
Ethylbenzene	**12**		7.8		ug/m3			06/09/22 22:10	9
m,p-Xylene	**58**		20		ug/m3			06/09/22 22:10	9
Xylene, o-	**24**		7.8		ug/m3			06/09/22 22:10	9
Xylene (total)	**80**		27		ug/m3			06/09/22 22:10	9
Styrene	7.7	U	7.7		ug/m3			06/09/22 22:10	9
Bromoform	19	U	19		ug/m3			06/09/22 22:10	9
Cumene	8.8	U	8.8		ug/m3			06/09/22 22:10	9
1,1,2,2-Tetrachloroethane	12	U	12		ug/m3			06/09/22 22:10	9
n-Propylbenzene	8.8	U	8.8		ug/m3			06/09/22 22:10	9
4-Ethyltoluene	8.8	U	8.8		ug/m3			06/09/22 22:10	9

Client Sample ID: SV-04-060122

Date Collected: 06/01/22 09:40
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-4

Matrix: Air

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	**13**		8.8		ug/m3			06/09/22 22:10	9
2-Chlorotoluene	9.3	U	9.3		ug/m3			06/09/22 22:10	9
tert-Butylbenzene	9.9	U	9.9		ug/m3			06/09/22 22:10	9
1,2,4-Trimethylbenzene	**16**		8.8		ug/m3			06/09/22 22:10	9
sec-Butylbenzene	9.9	U	9.9		ug/m3			06/09/22 22:10	9
4-Isopropyltoluene	9.9	U	9.9		ug/m3			06/09/22 22:10	9
1,3-Dichlorobenzene	11	U	11		ug/m3			06/09/22 22:10	9
1,4-Dichlorobenzene	11	U	11		ug/m3			06/09/22 22:10	9
Benzyl chloride	9.3	U	9.3		ug/m3			06/09/22 22:10	9
n-Butylbenzene	9.9	U	9.9		ug/m3			06/09/22 22:10	9
1,2-Dichlorobenzene	11	U	11		ug/m3			06/09/22 22:10	9
1,2,4-Trichlorobenzene	33	U	33		ug/m3			06/09/22 22:10	9
Hexachlorobutadiene	19	U	19		ug/m3			06/09/22 22:10	9
Naphthalene	24	U	24		ug/m3			06/09/22 22:10	9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	23	U	23		ppb v/v			06/09/22 23:02	45.2
Freon 22	23	U	23		ppb v/v			06/09/22 23:02	45.2
1,2-Dichlorotetrafluoroethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Chloromethane	23	U	23		ppb v/v			06/09/22 23:02	45.2
n-Butane	23	U	23		ppb v/v			06/09/22 23:02	45.2
Vinyl chloride	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,3-Butadiene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Bromomethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Chloroethane	23	U	23		ppb v/v			06/09/22 23:02	45.2
Bromoethene(Vinyl Bromide)	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Trichlorofluoromethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Freon TF	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,1-Dichloroethene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Acetone	**260**	**D**	230		ppb v/v			06/09/22 23:02	45.2
Isopropyl alcohol	230	U	230		ppb v/v			06/09/22 23:02	45.2
Carbon disulfide	23	U	23		ppb v/v			06/09/22 23:02	45.2
3-Chloropropene	23	U	23		ppb v/v			06/09/22 23:02	45.2
Methylene Chloride	**62**	**D**	23		ppb v/v			06/09/22 23:02	45.2
tert-Butyl alcohol	230	U	230		ppb v/v			06/09/22 23:02	45.2
Methyl tert-butyl ether	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
trans-1,2-Dichloroethene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
n-Hexane	23	U	23		ppb v/v			06/09/22 23:02	45.2
1,1-Dichloroethane	**13**	**D**	9.0		ppb v/v			06/09/22 23:02	45.2
Methyl Ethyl Ketone	23	U	23		ppb v/v			06/09/22 23:02	45.2
cis-1,2-Dichloroethene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,2-Dichloroethene, Total	18	U	18		ppb v/v			06/09/22 23:02	45.2
Chloroform	**10**	**D**	9.0		ppb v/v			06/09/22 23:02	45.2
Tetrahydrofuran	230	U	230		ppb v/v			06/09/22 23:02	45.2
1,1,1-Trichloroethane	**29**	**D**	9.0		ppb v/v			06/09/22 23:02	45.2
Cyclohexane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Carbon tetrachloride	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
2,2,4-Trimethylpentane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2

Client Sample ID: SV-04-060122
Date Collected: 06/01/22 09:40
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,2-Dichloroethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
n-Heptane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Trichloroethene	**1400**	**D**	9.0		ppb v/v			06/09/22 23:02	45.2
Methyl methacrylate	23	U	23		ppb v/v			06/09/22 23:02	45.2
1,2-Dichloropropane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,4-Dioxane	230	U	230		ppb v/v			06/09/22 23:02	45.2
Bromodichloromethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
cis-1,3-Dichloropropene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
methyl isobutyl ketone	23	U	23		ppb v/v			06/09/22 23:02	45.2
Toluene	**55**	**D**	9.0		ppb v/v			06/09/22 23:02	45.2
trans-1,3-Dichloropropene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,1,2-Trichloroethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Tetrachloroethene	**25**	**D**	9.0		ppb v/v			06/09/22 23:02	45.2
Methyl Butyl Ketone (2-Hexanone)	23	U	23		ppb v/v			06/09/22 23:02	45.2
Dibromochloromethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,2-Dibromoethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Chlorobenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Ethylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
m,p-Xylene	23	U	23		ppb v/v			06/09/22 23:02	45.2
Xylene, o-	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Xylene (total)	32	U	32		ppb v/v			06/09/22 23:02	45.2
Styrene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Bromoform	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Cumene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,1,2,2-Tetrachloroethane	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
n-Propylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
4-Ethyltoluene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,3,5-Trimethylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
2-Chlorotoluene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
tert-Butylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,2,4-Trimethylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
sec-Butylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
4-Isopropyltoluene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,3-Dichlorobenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,4-Dichlorobenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Benzyl chloride	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
n-Butylbenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,2-Dichlorobenzene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
1,2,4-Trichlorobenzene	23	U	23		ppb v/v			06/09/22 23:02	45.2
Hexachlorobutadiene	9.0	U	9.0		ppb v/v			06/09/22 23:02	45.2
Naphthalene	23	U	23		ppb v/v			06/09/22 23:02	45.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	110	U	110		ug/m3			06/09/22 23:02	45.2
Freon 22	80	U	80		ug/m3			06/09/22 23:02	45.2
1,2-Dichlorotetrafluoroethane	63	U	63		ug/m3			06/09/22 23:02	45.2
Chloromethane	47	U	47		ug/m3			06/09/22 23:02	45.2
n-Butane	54	U	54		ug/m3			06/09/22 23:02	45.2

Client Sample ID: SV-04-060122
Date Collected: 06/01/22 09:40
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	23	U	23		ug/m3			06/09/22 23:02	45.2
1,3-Butadiene	20	U	20		ug/m3			06/09/22 23:02	45.2
Bromomethane	35	U	35		ug/m3			06/09/22 23:02	45.2
Chloroethane	60	U	60		ug/m3			06/09/22 23:02	45.2
Bromoethene(Vinyl Bromide)	40	U	40		ug/m3			06/09/22 23:02	45.2
Trichlorofluoromethane	51	U	51		ug/m3			06/09/22 23:02	45.2
Freon TF	69	U	69		ug/m3			06/09/22 23:02	45.2
1,1-Dichloroethene	36	U	36		ug/m3			06/09/22 23:02	45.2
Acetone	**620**	**D**	540		ug/m3			06/09/22 23:02	45.2
Isopropyl alcohol	560	U	560		ug/m3			06/09/22 23:02	45.2
Carbon disulfide	70	U	70		ug/m3			06/09/22 23:02	45.2
3-Chloropropene	71	U	71		ug/m3			06/09/22 23:02	45.2
Methylene Chloride	**220**	**D**	79		ug/m3			06/09/22 23:02	45.2
tert-Butyl alcohol	690	U	690		ug/m3			06/09/22 23:02	45.2
Methyl tert-butyl ether	33	U	33		ug/m3			06/09/22 23:02	45.2
trans-1,2-Dichloroethene	36	U	36		ug/m3			06/09/22 23:02	45.2
n-Hexane	80	U	80		ug/m3			06/09/22 23:02	45.2
1,1-Dichloroethane	**54**	**D**	37		ug/m3			06/09/22 23:02	45.2
Methyl Ethyl Ketone	67	U	67		ug/m3			06/09/22 23:02	45.2
cis-1,2-Dichloroethene	36	U	36		ug/m3			06/09/22 23:02	45.2
1,2-Dichloroethene, Total	72	U	72		ug/m3			06/09/22 23:02	45.2
Chloroform	**50**	**D**	44		ug/m3			06/09/22 23:02	45.2
Tetrahydrofuran	670	U	670		ug/m3			06/09/22 23:02	45.2
1,1,1-Trichloroethane	**160**	**D**	49		ug/m3			06/09/22 23:02	45.2
Cyclohexane	31	U	31		ug/m3			06/09/22 23:02	45.2
Carbon tetrachloride	57	U	57		ug/m3			06/09/22 23:02	45.2
2,2,4-Trimethylpentane	42	U	42		ug/m3			06/09/22 23:02	45.2
Benzene	29	U	29		ug/m3			06/09/22 23:02	45.2
1,2-Dichloroethane	37	U	37		ug/m3			06/09/22 23:02	45.2
n-Heptane	37	U	37		ug/m3			06/09/22 23:02	45.2
Trichloroethene	**7400**	**D**	49		ug/m3			06/09/22 23:02	45.2
Methyl methacrylate	93	U	93		ug/m3			06/09/22 23:02	45.2
1,2-Dichloropropane	42	U	42		ug/m3			06/09/22 23:02	45.2
1,4-Dioxane	810	U	810		ug/m3			06/09/22 23:02	45.2
Bromodichloromethane	61	U	61		ug/m3			06/09/22 23:02	45.2
cis-1,3-Dichloropropene	41	U	41		ug/m3			06/09/22 23:02	45.2
methyl isobutyl ketone	93	U	93		ug/m3			06/09/22 23:02	45.2
Toluene	**210**	**D**	34		ug/m3			06/09/22 23:02	45.2
trans-1,3-Dichloropropene	41	U	41		ug/m3			06/09/22 23:02	45.2
1,1,2-Trichloroethane	49	U	49		ug/m3			06/09/22 23:02	45.2
Tetrachloroethene	**170**	**D**	61		ug/m3			06/09/22 23:02	45.2
Methyl Butyl Ketone (2-Hexanone)	93	U	93		ug/m3			06/09/22 23:02	45.2
Dibromochloromethane	77	U	77		ug/m3			06/09/22 23:02	45.2
1,2-Dibromoethane	69	U	69		ug/m3			06/09/22 23:02	45.2
Chlorobenzene	42	U	42		ug/m3			06/09/22 23:02	45.2
Ethylbenzene	39	U	39		ug/m3			06/09/22 23:02	45.2
m,p-Xylene	98	U	98		ug/m3			06/09/22 23:02	45.2
Xylene, o-	39	U	39		ug/m3			06/09/22 23:02	45.2

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-04-060122
Date Collected: 06/01/22 09:40
Date Received: 06/04/22 09:35
Sample Container: Summa Canister 6L

Lab Sample ID: 200-63678-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene (total)	140	U	140		ug/m3			06/09/22 23:02	45.2
Styrene	39	U	39		ug/m3			06/09/22 23:02	45.2
Bromoform	93	U	93		ug/m3			06/09/22 23:02	45.2
Cumene	44	U	44		ug/m3			06/09/22 23:02	45.2
1,1,2,2-Tetrachloroethane	62	U	62		ug/m3			06/09/22 23:02	45.2
n-Propylbenzene	44	U	44		ug/m3			06/09/22 23:02	45.2
4-Ethyltoluene	44	U	44		ug/m3			06/09/22 23:02	45.2
1,3,5-Trimethylbenzene	44	U	44		ug/m3			06/09/22 23:02	45.2
2-Chlorotoluene	47	U	47		ug/m3			06/09/22 23:02	45.2
tert-Butylbenzene	50	U	50		ug/m3			06/09/22 23:02	45.2
1,2,4-Trimethylbenzene	44	U	44		ug/m3			06/09/22 23:02	45.2
sec-Butylbenzene	50	U	50		ug/m3			06/09/22 23:02	45.2
4-Isopropyltoluene	50	U	50		ug/m3			06/09/22 23:02	45.2
1,3-Dichlorobenzene	54	U	54		ug/m3			06/09/22 23:02	45.2
1,4-Dichlorobenzene	54	U	54		ug/m3			06/09/22 23:02	45.2
Benzyl chloride	47	U	47		ug/m3			06/09/22 23:02	45.2
n-Butylbenzene	50	U	50		ug/m3			06/09/22 23:02	45.2
1,2-Dichlorobenzene	54	U	54		ug/m3			06/09/22 23:02	45.2
1,2,4-Trichlorobenzene	170	U	170		ug/m3			06/09/22 23:02	45.2
Hexachlorobutadiene	96	U	96		ug/m3			06/09/22 23:02	45.2
Naphthalene	120	U	120		ug/m3			06/09/22 23:02	45.2

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

Lab Sample ID: MB 200-180551/5
Matrix: Air
Analysis Batch: 180551

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			06/07/22 10:54	1
Freon 22	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Chloromethane	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
n-Butane	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Bromomethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Chloroethane	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Trichlorofluoromethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Freon TF	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Acetone	5.0	U	5.0		ppb v/v			06/07/22 10:54	1
Isopropyl alcohol	5.0	U	5.0		ppb v/v			06/07/22 10:54	1
Carbon disulfide	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Methylene Chloride	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/07/22 10:54	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
n-Hexane	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Methyl Ethyl Ketone	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/07/22 10:54	1
Chloroform	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/07/22 10:54	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Cyclohexane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
2,2,4-Trimethylpentane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Benzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
n-Heptane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/07/22 10:54	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Toluene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1

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

Lab Sample ID: MB 200-180551/5
Matrix: Air
Analysis Batch: 180551

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			06/07/22 10:54	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/07/22 10:54	1
Styrene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Bromoform	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Cumene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ppb v/v			06/07/22 10:54	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/07/22 10:54	1
Naphthalene	0.50	U	0.50		ppb v/v			06/07/22 10:54	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/07/22 10:54	1
Freon 22	1.8	U	1.8		ug/m3			06/07/22 10:54	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/07/22 10:54	1
Chloromethane	1.0	U	1.0		ug/m3			06/07/22 10:54	1
n-Butane	1.2	U	1.2		ug/m3			06/07/22 10:54	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/07/22 10:54	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/07/22 10:54	1
Bromomethane	0.78	U	0.78		ug/m3			06/07/22 10:54	1
Chloroethane	1.3	U	1.3		ug/m3			06/07/22 10:54	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/07/22 10:54	1
Trichlorofluoromethane	1.1	U	1.1		ug/m3			06/07/22 10:54	1
Freon TF	1.5	U	1.5		ug/m3			06/07/22 10:54	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/07/22 10:54	1
Acetone	12	U	12		ug/m3			06/07/22 10:54	1
Isopropyl alcohol	12	U	12		ug/m3			06/07/22 10:54	1
Carbon disulfide	1.6	U	1.6		ug/m3			06/07/22 10:54	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/07/22 10:54	1
Methylene Chloride	1.7	U	1.7		ug/m3			06/07/22 10:54	1
tert-Butyl alcohol	15	U	15		ug/m3			06/07/22 10:54	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/07/22 10:54	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/07/22 10:54	1

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

Lab Sample ID: MB 200-180551/5
Matrix: Air
Analysis Batch: 180551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	1.8	U	1.8		ug/m3			06/07/22 10:54	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/07/22 10:54	1
Methyl Ethyl Ketone	1.5	U	1.5		ug/m3			06/07/22 10:54	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/07/22 10:54	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/07/22 10:54	1
Chloroform	0.98	U	0.98		ug/m3			06/07/22 10:54	1
Tetrahydrofuran	15	U	15		ug/m3			06/07/22 10:54	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/07/22 10:54	1
Cyclohexane	0.69	U	0.69		ug/m3			06/07/22 10:54	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/07/22 10:54	1
2,2,4-Trimethylpentane	0.93	U	0.93		ug/m3			06/07/22 10:54	1
Benzene	0.64	U	0.64		ug/m3			06/07/22 10:54	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/07/22 10:54	1
n-Heptane	0.82	U	0.82		ug/m3			06/07/22 10:54	1
Trichloroethene	1.1	U	1.1		ug/m3			06/07/22 10:54	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/07/22 10:54	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/07/22 10:54	1
1,4-Dioxane	18	U	18		ug/m3			06/07/22 10:54	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/07/22 10:54	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/07/22 10:54	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/07/22 10:54	1
Toluene	0.75	U	0.75		ug/m3			06/07/22 10:54	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/07/22 10:54	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/07/22 10:54	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/07/22 10:54	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/07/22 10:54	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/07/22 10:54	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/07/22 10:54	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/07/22 10:54	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/07/22 10:54	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/07/22 10:54	1
Xylene, o-	0.87	U	0.87		ug/m3			06/07/22 10:54	1
Xylene (total)	3.0	U	3.0		ug/m3			06/07/22 10:54	1
Styrene	0.85	U	0.85		ug/m3			06/07/22 10:54	1
Bromoform	2.1	U	2.1		ug/m3			06/07/22 10:54	1
Cumene	0.98	U	0.98		ug/m3			06/07/22 10:54	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/07/22 10:54	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/07/22 10:54	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/07/22 10:54	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/07/22 10:54	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/07/22 10:54	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/07/22 10:54	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/07/22 10:54	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/07/22 10:54	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/07/22 10:54	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/07/22 10:54	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/07/22 10:54	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/07/22 10:54	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/07/22 10:54	1

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

Lab Sample ID: MB 200-180551/5
Matrix: Air
Analysis Batch: 180551

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			06/07/22 10:54	1
1,2,4-Trichlorobenzene	3.7	U	3.7		ug/m3			06/07/22 10:54	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/07/22 10:54	1
Naphthalene	2.6	U	2.6		ug/m3			06/07/22 10:54	1

Lab Sample ID: LCS 200-180551/3
Matrix: Air
Analysis Batch: 180551

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	12.6		ppb v/v		126	61 - 142
Freon 22	10.0	12.3		ppb v/v		123	60 - 147
1,2-Dichlorotetrafluoroethane	10.0	10.7		ppb v/v		107	71 - 141
Chloromethane	10.0	9.77		ppb v/v		98	56 - 141
n-Butane	10.0	11.4		ppb v/v		114	53 - 151
Vinyl chloride	10.0	10.0		ppb v/v		100	61 - 135
1,3-Butadiene	10.0	10.4		ppb v/v		104	58 - 139
Bromomethane	10.0	10.5		ppb v/v		105	72 - 124
Chloroethane	10.0	9.50		ppb v/v		95	68 - 130
Bromoethene(Vinyl Bromide)	10.0	9.44		ppb v/v		94	75 - 125
Trichlorofluoromethane	10.0	12.0		ppb v/v		120	70 - 129
Freon TF	10.0	10.2		ppb v/v		102	70 - 121
1,1-Dichloroethene	10.0	9.17		ppb v/v		92	68 - 120
Acetone	10.0	12.7		ppb v/v		127	54 - 154
Isopropyl alcohol	10.0	11.6		ppb v/v		116	53 - 142
Carbon disulfide	10.0	9.67		ppb v/v		97	71 - 138
3-Chloropropene	10.0	10.8		ppb v/v		108	50 - 150
Methylene Chloride	10.0	11.2		ppb v/v		112	59 - 137
tert-Butyl alcohol	10.0	11.5		ppb v/v		115	66 - 132
Methyl tert-butyl ether	10.0	10.9		ppb v/v		109	70 - 127
trans-1,2-Dichloroethene	10.0	10.4		ppb v/v		104	69 - 137
n-Hexane	10.0	9.65		ppb v/v		97	63 - 138
1,1-Dichloroethane	10.0	9.63		ppb v/v		96	66 - 130
Methyl Ethyl Ketone	10.0	9.38		ppb v/v		94	72 - 124
cis-1,2-Dichloroethene	10.0	9.09		ppb v/v		91	72 - 121
Chloroform	10.0	10.9		ppb v/v		109	73 - 124
Tetrahydrofuran	10.0	9.79		ppb v/v		98	60 - 149
1,1,1-Trichloroethane	10.0	11.3		ppb v/v		113	72 - 127
Cyclohexane	10.0	8.80		ppb v/v		88	76 - 124
Carbon tetrachloride	10.0	11.4		ppb v/v		114	71 - 133
2,2,4-Trimethylpentane	10.0	8.61		ppb v/v		86	68 - 131
Benzene	10.0	8.54		ppb v/v		85	73 - 119
1,2-Dichloroethane	10.0	12.2		ppb v/v		122	68 - 135
n-Heptane	10.0	8.82		ppb v/v		88	60 - 142
Trichloroethene	10.0	9.87		ppb v/v		99	73 - 122
Methyl methacrylate	10.0	10.4		ppb v/v		104	73 - 129
1,2-Dichloropropane	10.0	9.01		ppb v/v		90	69 - 128
1,4-Dioxane	10.0	10.2		ppb v/v		102	66 - 129
Bromodichloromethane	10.0	12.4		ppb v/v		124	75 - 127

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

Lab Sample ID: LCS 200-180551/3
Matrix: Air
Analysis Batch: 180551

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	10.0	11.1		ppb v/v		111	74 - 125
methyl isobutyl ketone	10.0	11.2		ppb v/v		112	58 - 144
Toluene	10.0	9.10		ppb v/v		91	75 - 122
trans-1,3-Dichloropropene	10.0	12.0		ppb v/v		120	74 - 128
1,1,2-Trichloroethane	10.0	9.16		ppb v/v		92	75 - 126
Tetrachloroethene	10.0	9.04		ppb v/v		90	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10.0	9.42		ppb v/v		94	57 - 143
Dibromochloromethane	10.0	10.5		ppb v/v		105	73 - 125
1,2-Dibromoethane	10.0	9.91		ppb v/v		99	78 - 122
Chlorobenzene	10.0	9.15		ppb v/v		91	76 - 119
Ethylbenzene	10.0	9.73		ppb v/v		97	74 - 122
m,p-Xylene	20.0	18.6		ppb v/v		93	76 - 121
Xylene, o-	10.0	9.39		ppb v/v		94	73 - 123
Styrene	10.0	9.61		ppb v/v		96	74 - 125
Bromoform	10.0	10.2		ppb v/v		102	53 - 149
Cumene	10.0	9.97		ppb v/v		100	73 - 123
1,1,2,2-Tetrachloroethane	10.0	9.19		ppb v/v		92	74 - 126
n-Propylbenzene	10.0	9.92		ppb v/v		99	73 - 127
4-Ethyltoluene	10.0	9.95		ppb v/v		99	75 - 129
1,3,5-Trimethylbenzene	10.0	10.4		ppb v/v		104	72 - 126
2-Chlorotoluene	10.0	10.4		ppb v/v		104	74 - 126
tert-Butylbenzene	10.0	10.2		ppb v/v		102	71 - 125
1,2,4-Trimethylbenzene	10.0	10.5		ppb v/v		105	71 - 129
sec-Butylbenzene	10.0	10.1		ppb v/v		101	70 - 128
4-Isopropyltoluene	10.0	10.1		ppb v/v		101	68 - 130
1,3-Dichlorobenzene	10.0	9.53		ppb v/v		95	69 - 131
1,4-Dichlorobenzene	10.0	9.58		ppb v/v		96	67 - 132
Benzyl chloride	10.0	10.6		ppb v/v		106	60 - 136
n-Butylbenzene	10.0	10.3		ppb v/v		103	65 - 137
1,2-Dichlorobenzene	10.0	9.54		ppb v/v		95	68 - 129
1,2,4-Trichlorobenzene	10.0	9.51		ppb v/v		95	50 - 150
Hexachlorobutadiene	10.0	9.95		ppb v/v		100	58 - 130
Naphthalene	10.0	9.74		ppb v/v		97	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49	62.3		ug/m3		126	61 - 142
Freon 22	35	43.4		ug/m3		123	60 - 147
1,2-Dichlorotetrafluoroethane	70	75.0		ug/m3		107	71 - 141
Chloromethane	21	20.2		ug/m3		98	56 - 141
n-Butane	24	27.1		ug/m3		114	53 - 151
Vinyl chloride	26	25.7		ug/m3		100	61 - 135
1,3-Butadiene	22	23.0		ug/m3		104	58 - 139
Bromomethane	39	40.9		ug/m3		105	72 - 124
Chloroethane	26	25.1		ug/m3		95	68 - 130
Bromoethene(Vinyl Bromide)	44	41.3		ug/m3		94	75 - 125
Trichlorofluoromethane	56	67.3		ug/m3		120	70 - 129
Freon TF	77	78.5		ug/m3		102	70 - 121
1,1-Dichloroethene	40	36.4		ug/m3		92	68 - 120

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

Lab Sample ID: LCS 200-180551/3
Matrix: Air
Analysis Batch: 180551

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	24	30.2		ug/m3		127	54 - 154
Isopropyl alcohol	25	28.6		ug/m3		116	53 - 142
Carbon disulfide	31	30.1		ug/m3		97	71 - 138
3-Chloropropene	31	33.8		ug/m3		108	50 - 150
Methylene Chloride	35	38.9		ug/m3		112	59 - 137
tert-Butyl alcohol	30	35.0		ug/m3		115	66 - 132
Methyl tert-butyl ether	36	39.4		ug/m3		109	70 - 127
trans-1,2-Dichloroethene	40	41.2		ug/m3		104	69 - 137
n-Hexane	35	34.0		ug/m3		97	63 - 138
1,1-Dichloroethane	40	39.0		ug/m3		96	66 - 130
Methyl Ethyl Ketone	29	27.7		ug/m3		94	72 - 124
cis-1,2-Dichloroethene	40	36.0		ug/m3		91	72 - 121
Chloroform	49	53.4		ug/m3		109	73 - 124
Tetrahydrofuran	29	28.9		ug/m3		98	60 - 149
1,1,1-Trichloroethane	55	61.5		ug/m3		113	72 - 127
Cyclohexane	34	30.3		ug/m3		88	76 - 124
Carbon tetrachloride	63	72.0		ug/m3		114	71 - 133
2,2,4-Trimethylpentane	47	40.2		ug/m3		86	68 - 131
Benzene	32	27.3		ug/m3		85	73 - 119
1,2-Dichloroethane	40	49.2		ug/m3		122	68 - 135
n-Heptane	41	36.2		ug/m3		88	60 - 142
Trichloroethene	54	53.1		ug/m3		99	73 - 122
Methyl methacrylate	41	42.5		ug/m3		104	73 - 129
1,2-Dichloropropane	46	41.6		ug/m3		90	69 - 128
1,4-Dioxane	36	36.7		ug/m3		102	66 - 129
Bromodichloromethane	67	83.1		ug/m3		124	75 - 127
cis-1,3-Dichloropropene	45	50.5		ug/m3		111	74 - 125
methyl isobutyl ketone	41	45.9		ug/m3		112	58 - 144
Toluene	38	34.3		ug/m3		91	75 - 122
trans-1,3-Dichloropropene	45	54.4		ug/m3		120	74 - 128
1,1,2-Trichloroethane	55	50.0		ug/m3		92	75 - 126
Tetrachloroethene	68	61.3		ug/m3		90	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41	38.6		ug/m3		94	57 - 143
Dibromochloromethane	85	89.3		ug/m3		105	73 - 125
1,2-Dibromoethane	77	76.1		ug/m3		99	78 - 122
Chlorobenzene	46	42.1		ug/m3		91	76 - 119
Ethylbenzene	43	42.3		ug/m3		97	74 - 122
m,p-Xylene	87	80.7		ug/m3		93	76 - 121
Xylene, o-	43	40.8		ug/m3		94	73 - 123
Styrene	43	40.9		ug/m3		96	74 - 125
Bromoform	100	106		ug/m3		102	53 - 149
Cumene	49	49.0		ug/m3		100	73 - 123
1,1,2,2-Tetrachloroethane	69	63.1		ug/m3		92	74 - 126
n-Propylbenzene	49	48.8		ug/m3		99	73 - 127
4-Ethyltoluene	49	48.9		ug/m3		99	75 - 129
1,3,5-Trimethylbenzene	49	50.9		ug/m3		104	72 - 126
2-Chlorotoluene	52	54.0		ug/m3		104	74 - 126
tert-Butylbenzene	55	56.0		ug/m3		102	71 - 125

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

Lab Sample ID: LCS 200-180551/3
Matrix: Air
Analysis Batch: 180551

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-Trimethylbenzene	49	51.4		ug/m3		105	71 - 129
sec-Butylbenzene	55	55.2		ug/m3		101	70 - 128
4-Isopropyltoluene	55	55.5		ug/m3		101	68 - 130
1,3-Dichlorobenzene	60	57.3		ug/m3		95	69 - 131
1,4-Dichlorobenzene	60	57.6		ug/m3		96	67 - 132
Benzyl chloride	52	54.9		ug/m3		106	60 - 136
n-Butylbenzene	55	56.7		ug/m3		103	65 - 137
1,2-Dichlorobenzene	60	57.3		ug/m3		95	68 - 129
1,2,4-Trichlorobenzene	74	70.6		ug/m3		95	50 - 150
Hexachlorobutadiene	110	106		ug/m3		100	58 - 130
Naphthalene	52	51.1		ug/m3		97	50 - 150

Lab Sample ID: MB 200-180553/5
Matrix: Air
Analysis Batch: 180553

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			06/07/22 10:59	1
Freon 22	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Chloromethane	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
n-Butane	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Bromomethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Chloroethane	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Trichlorofluoromethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Freon TF	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Acetone	5.0	U	5.0		ppb v/v			06/07/22 10:59	1
Isopropyl alcohol	5.0	U	5.0		ppb v/v			06/07/22 10:59	1
Carbon disulfide	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Methylene Chloride	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/07/22 10:59	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
n-Hexane	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Methyl Ethyl Ketone	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/07/22 10:59	1
Chloroform	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/07/22 10:59	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Cyclohexane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
2,2,4-Trimethylpentane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1

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

Lab Sample ID: MB 200-180553/5
Matrix: Air
Analysis Batch: 180553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
n-Heptane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/07/22 10:59	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Toluene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/07/22 10:59	1
Styrene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Bromoform	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Cumene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ppb v/v			06/07/22 10:59	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/07/22 10:59	1
Naphthalene	0.50	U	0.50		ppb v/v			06/07/22 10:59	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/07/22 10:59	1
Freon 22	1.8	U	1.8		ug/m3			06/07/22 10:59	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/07/22 10:59	1
Chloromethane	1.0	U	1.0		ug/m3			06/07/22 10:59	1
n-Butane	1.2	U	1.2		ug/m3			06/07/22 10:59	1

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

Lab Sample ID: MB 200-180553/5
Matrix: Air
Analysis Batch: 180553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.51	U	0.51		ug/m3			06/07/22 10:59	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/07/22 10:59	1
Bromomethane	0.78	U	0.78		ug/m3			06/07/22 10:59	1
Chloroethane	1.3	U	1.3		ug/m3			06/07/22 10:59	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/07/22 10:59	1
Trichlorofluoromethane	1.1	U	1.1		ug/m3			06/07/22 10:59	1
Freon TF	1.5	U	1.5		ug/m3			06/07/22 10:59	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/07/22 10:59	1
Acetone	12	U	12		ug/m3			06/07/22 10:59	1
Isopropyl alcohol	12	U	12		ug/m3			06/07/22 10:59	1
Carbon disulfide	1.6	U	1.6		ug/m3			06/07/22 10:59	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/07/22 10:59	1
Methylene Chloride	1.7	U	1.7		ug/m3			06/07/22 10:59	1
tert-Butyl alcohol	15	U	15		ug/m3			06/07/22 10:59	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/07/22 10:59	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/07/22 10:59	1
n-Hexane	1.8	U	1.8		ug/m3			06/07/22 10:59	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/07/22 10:59	1
Methyl Ethyl Ketone	1.5	U	1.5		ug/m3			06/07/22 10:59	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/07/22 10:59	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/07/22 10:59	1
Chloroform	0.98	U	0.98		ug/m3			06/07/22 10:59	1
Tetrahydrofuran	15	U	15		ug/m3			06/07/22 10:59	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/07/22 10:59	1
Cyclohexane	0.69	U	0.69		ug/m3			06/07/22 10:59	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/07/22 10:59	1
2,2,4-Trimethylpentane	0.93	U	0.93		ug/m3			06/07/22 10:59	1
Benzene	0.64	U	0.64		ug/m3			06/07/22 10:59	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/07/22 10:59	1
n-Heptane	0.82	U	0.82		ug/m3			06/07/22 10:59	1
Trichloroethene	1.1	U	1.1		ug/m3			06/07/22 10:59	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/07/22 10:59	1
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/07/22 10:59	1
1,4-Dioxane	18	U	18		ug/m3			06/07/22 10:59	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/07/22 10:59	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/07/22 10:59	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/07/22 10:59	1
Toluene	0.75	U	0.75		ug/m3			06/07/22 10:59	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/07/22 10:59	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/07/22 10:59	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/07/22 10:59	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/07/22 10:59	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/07/22 10:59	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/07/22 10:59	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/07/22 10:59	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/07/22 10:59	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/07/22 10:59	1
Xylene, o-	0.87	U	0.87		ug/m3			06/07/22 10:59	1
Xylene (total)	3.0	U	3.0		ug/m3			06/07/22 10:59	1

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

Lab Sample ID: MB 200-180553/5
Matrix: Air
Analysis Batch: 180553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.85	U	0.85		ug/m3			06/07/22 10:59	1
Bromoform	2.1	U	2.1		ug/m3			06/07/22 10:59	1
Cumene	0.98	U	0.98		ug/m3			06/07/22 10:59	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/07/22 10:59	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/07/22 10:59	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/07/22 10:59	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/07/22 10:59	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/07/22 10:59	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/07/22 10:59	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/07/22 10:59	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/07/22 10:59	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/07/22 10:59	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/07/22 10:59	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/07/22 10:59	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/07/22 10:59	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/07/22 10:59	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/07/22 10:59	1
1,2,4-Trichlorobenzene	3.7	U	3.7		ug/m3			06/07/22 10:59	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/07/22 10:59	1
Naphthalene	2.6	U	2.6		ug/m3			06/07/22 10:59	1

Lab Sample ID: LCS 200-180553/3
Matrix: Air
Analysis Batch: 180553

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	10.6		ppb v/v		106	61 - 142
Freon 22	10.0	10.5		ppb v/v		105	60 - 147
1,2-Dichlorotetrafluoroethane	10.0	10.1		ppb v/v		101	71 - 141
Chloromethane	10.0	9.99		ppb v/v		100	56 - 141
n-Butane	10.0	9.75		ppb v/v		98	53 - 151
Vinyl chloride	10.0	10.1		ppb v/v		101	61 - 135
1,3-Butadiene	10.0	10.6		ppb v/v		106	58 - 139
Bromomethane	10.0	9.86		ppb v/v		99	72 - 124
Chloroethane	10.0	10.0		ppb v/v		100	68 - 130
Bromoethene(Vinyl Bromide)	10.0	10.1		ppb v/v		101	75 - 125
Trichlorofluoromethane	10.0	10.7		ppb v/v		107	70 - 129
Freon TF	10.0	10.1		ppb v/v		101	70 - 121
1,1-Dichloroethene	10.0	10.3		ppb v/v		103	68 - 120
Acetone	10.0	10.5		ppb v/v		105	54 - 154
Isopropyl alcohol	10.0	10.4		ppb v/v		104	53 - 142
Carbon disulfide	10.0	10.0		ppb v/v		100	71 - 138
3-Chloropropene	10.0	9.29		ppb v/v		93	50 - 150
Methylene Chloride	10.0	10.1		ppb v/v		101	59 - 137
tert-Butyl alcohol	10.0	10.4		ppb v/v		104	66 - 132
Methyl tert-butyl ether	10.0	10.4		ppb v/v		104	70 - 127
trans-1,2-Dichloroethene	10.0	10.7		ppb v/v		107	69 - 137
n-Hexane	10.0	9.74		ppb v/v		97	63 - 138
1,1-Dichloroethane	10.0	10.4		ppb v/v		105	66 - 130

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

Lab Sample ID: LCS 200-180553/3
Matrix: Air
Analysis Batch: 180553

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	10.0	10.3		ppb v/v		103	72 - 124
cis-1,2-Dichloroethene	10.0	11.0		ppb v/v		111	72 - 121
Chloroform	10.0	10.2		ppb v/v		102	73 - 124
Tetrahydrofuran	10.0	9.82		ppb v/v		98	60 - 149
1,1,1-Trichloroethane	10.0	10.2		ppb v/v		102	72 - 127
Cyclohexane	10.0	9.57		ppb v/v		96	76 - 124
Carbon tetrachloride	10.0	11.5		ppb v/v		115	71 - 133
2,2,4-Trimethylpentane	10.0	9.62		ppb v/v		96	68 - 131
Benzene	10.0	9.32		ppb v/v		93	73 - 119
1,2-Dichloroethane	10.0	10.1		ppb v/v		101	68 - 135
n-Heptane	10.0	9.59		ppb v/v		96	60 - 142
Trichloroethene	10.0	10.2		ppb v/v		102	73 - 122
Methyl methacrylate	10.0	10.2		ppb v/v		102	73 - 129
1,2-Dichloropropane	10.0	9.52		ppb v/v		95	69 - 128
1,4-Dioxane	10.0	10.5		ppb v/v		105	66 - 129
Bromodichloromethane	10.0	10.1		ppb v/v		101	75 - 127
cis-1,3-Dichloropropene	10.0	9.90		ppb v/v		99	74 - 125
methyl isobutyl ketone	10.0	10.3		ppb v/v		103	58 - 144
Toluene	10.0	9.41		ppb v/v		94	75 - 122
trans-1,3-Dichloropropene	10.0	10.1		ppb v/v		102	74 - 128
1,1,2-Trichloroethane	10.0	9.76		ppb v/v		98	75 - 126
Tetrachloroethene	10.0	9.94		ppb v/v		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10.0	10.3		ppb v/v		103	57 - 143
Dibromochloromethane	10.0	10.1		ppb v/v		101	73 - 125
1,2-Dibromoethane	10.0	9.93		ppb v/v		99	78 - 122
Chlorobenzene	10.0	9.76		ppb v/v		98	76 - 119
Ethylbenzene	10.0	9.65		ppb v/v		96	74 - 122
m,p-Xylene	20.0	20.2		ppb v/v		101	76 - 121
Xylene, o-	10.0	9.72		ppb v/v		97	73 - 123
Styrene	10.0	10.1		ppb v/v		101	74 - 125
Bromoform	10.0	10.7		ppb v/v		107	53 - 149
Cumene	10.0	10.1		ppb v/v		101	73 - 123
1,1,2,2-Tetrachloroethane	10.0	10.1		ppb v/v		101	74 - 126
n-Propylbenzene	10.0	10.2		ppb v/v		102	73 - 127
4-Ethyltoluene	10.0	10.1		ppb v/v		101	75 - 129
1,3,5-Trimethylbenzene	10.0	9.88		ppb v/v		99	72 - 126
2-Chlorotoluene	10.0	10.0		ppb v/v		100	74 - 126
tert-Butylbenzene	10.0	9.70		ppb v/v		97	71 - 125
1,2,4-Trimethylbenzene	10.0	9.69		ppb v/v		97	71 - 129
sec-Butylbenzene	10.0	9.60		ppb v/v		96	70 - 128
4-Isopropyltoluene	10.0	9.39		ppb v/v		94	68 - 130
1,3-Dichlorobenzene	10.0	9.62		ppb v/v		96	69 - 131
1,4-Dichlorobenzene	10.0	9.50		ppb v/v		95	67 - 132
Benzyl chloride	10.0	10.4		ppb v/v		104	60 - 136
n-Butylbenzene	10.0	9.27		ppb v/v		93	65 - 137
1,2-Dichlorobenzene	10.0	9.50		ppb v/v		95	68 - 129
1,2,4-Trichlorobenzene	10.0	8.68		ppb v/v		87	50 - 150
Hexachlorobutadiene	10.0	7.93		ppb v/v		79	58 - 130

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

Lab Sample ID: LCS 200-180553/3
Matrix: Air
Analysis Batch: 180553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	10.0	9.30		ppb v/v		93	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49	52.4		ug/m3		106	61 - 142
Freon 22	35	37.1		ug/m3		105	60 - 147
1,2-Dichlorotetrafluoroethane	70	70.6		ug/m3		101	71 - 141
Chloromethane	21	20.6		ug/m3		100	56 - 141
n-Butane	24	23.2		ug/m3		98	53 - 151
Vinyl chloride	26	25.8		ug/m3		101	61 - 135
1,3-Butadiene	22	23.3		ug/m3		106	58 - 139
Bromomethane	39	38.3		ug/m3		99	72 - 124
Chloroethane	26	26.4		ug/m3		100	68 - 130
Bromoethene(Vinyl Bromide)	44	44.1		ug/m3		101	75 - 125
Trichlorofluoromethane	56	60.2		ug/m3		107	70 - 129
Freon TF	77	77.5		ug/m3		101	70 - 121
1,1-Dichloroethene	40	41.0		ug/m3		103	68 - 120
Acetone	24	25.0		ug/m3		105	54 - 154
Isopropyl alcohol	25	25.5		ug/m3		104	53 - 142
Carbon disulfide	31	31.2		ug/m3		100	71 - 138
3-Chloropropene	31	29.1		ug/m3		93	50 - 150
Methylene Chloride	35	35.2		ug/m3		101	59 - 137
tert-Butyl alcohol	30	31.6		ug/m3		104	66 - 132
Methyl tert-butyl ether	36	37.5		ug/m3		104	70 - 127
trans-1,2-Dichloroethene	40	42.3		ug/m3		107	69 - 137
n-Hexane	35	34.3		ug/m3		97	63 - 138
1,1-Dichloroethane	40	42.3		ug/m3		105	66 - 130
Methyl Ethyl Ketone	29	30.4		ug/m3		103	72 - 124
cis-1,2-Dichloroethene	40	43.8		ug/m3		111	72 - 121
Chloroform	49	49.9		ug/m3		102	73 - 124
Tetrahydrofuran	29	29.0		ug/m3		98	60 - 149
1,1,1-Trichloroethane	55	55.8		ug/m3		102	72 - 127
Cyclohexane	34	32.9		ug/m3		96	76 - 124
Carbon tetrachloride	63	72.2		ug/m3		115	71 - 133
2,2,4-Trimethylpentane	47	44.9		ug/m3		96	68 - 131
Benzene	32	29.8		ug/m3		93	73 - 119
1,2-Dichloroethane	40	40.8		ug/m3		101	68 - 135
n-Heptane	41	39.3		ug/m3		96	60 - 142
Trichloroethene	54	54.7		ug/m3		102	73 - 122
Methyl methacrylate	41	41.6		ug/m3		102	73 - 129
1,2-Dichloropropane	46	44.0		ug/m3		95	69 - 128
1,4-Dioxane	36	37.8		ug/m3		105	66 - 129
Bromodichloromethane	67	67.4		ug/m3		101	75 - 127
cis-1,3-Dichloropropene	45	44.9		ug/m3		99	74 - 125
methyl isobutyl ketone	41	42.0		ug/m3		103	58 - 144
Toluene	38	35.5		ug/m3		94	75 - 122
trans-1,3-Dichloropropene	45	46.1		ug/m3		102	74 - 128
1,1,2-Trichloroethane	55	53.2		ug/m3		98	75 - 126
Tetrachloroethene	68	67.4		ug/m3		99	70 - 125

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

Lab Sample ID: LCS 200-180553/3
Matrix: Air
Analysis Batch: 180553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Butyl Ketone (2-Hexanone)	41	42.1		ug/m3		103	57 - 143
Dibromochloromethane	85	85.8		ug/m3		101	73 - 125
1,2-Dibromoethane	77	76.3		ug/m3		99	78 - 122
Chlorobenzene	46	44.9		ug/m3		98	76 - 119
Ethylbenzene	43	41.9		ug/m3		96	74 - 122
m,p-Xylene	87	87.5		ug/m3		101	76 - 121
Xylene, o-	43	42.2		ug/m3		97	73 - 123
Styrene	43	42.9		ug/m3		101	74 - 125
Bromoform	100	111		ug/m3		107	53 - 149
Cumene	49	49.6		ug/m3		101	73 - 123
1,1,2,2-Tetrachloroethane	69	69.4		ug/m3		101	74 - 126
n-Propylbenzene	49	50.2		ug/m3		102	73 - 127
4-Ethyltoluene	49	49.6		ug/m3		101	75 - 129
1,3,5-Trimethylbenzene	49	48.6		ug/m3		99	72 - 126
2-Chlorotoluene	52	51.8		ug/m3		100	74 - 126
tert-Butylbenzene	55	53.3		ug/m3		97	71 - 125
1,2,4-Trimethylbenzene	49	47.7		ug/m3		97	71 - 129
sec-Butylbenzene	55	52.7		ug/m3		96	70 - 128
4-Isopropyltoluene	55	51.6		ug/m3		94	68 - 130
1,3-Dichlorobenzene	60	57.9		ug/m3		96	69 - 131
1,4-Dichlorobenzene	60	57.1		ug/m3		95	67 - 132
Benzyl chloride	52	53.7		ug/m3		104	60 - 136
n-Butylbenzene	55	50.9		ug/m3		93	65 - 137
1,2-Dichlorobenzene	60	57.1		ug/m3		95	68 - 129
1,2,4-Trichlorobenzene	74	64.4		ug/m3		87	50 - 150
Hexachlorobutadiene	110	84.6		ug/m3		79	58 - 130
Naphthalene	52	48.7		ug/m3		93	50 - 150

Lab Sample ID: MB 200-180638/4
Matrix: Air
Analysis Batch: 180638

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			06/09/22 10:18	1
Freon 22	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Chloromethane	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
n-Butane	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Vinyl chloride	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Bromomethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Chloroethane	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Trichlorofluoromethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Freon TF	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Acetone	5.0	U	5.0		ppb v/v			06/09/22 10:18	1
Isopropyl alcohol	5.0	U	5.0		ppb v/v			06/09/22 10:18	1

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

Lab Sample ID: MB 200-180638/4
Matrix: Air
Analysis Batch: 180638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
3-Chloropropene	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Methylene Chloride	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
tert-Butyl alcohol	5.0	U	5.0		ppb v/v			06/09/22 10:18	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
n-Hexane	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Methyl Ethyl Ketone	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,2-Dichloroethene, Total	0.40	U	0.40		ppb v/v			06/09/22 10:18	1
Chloroform	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			06/09/22 10:18	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Cyclohexane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
2,2,4-Trimethylpentane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Benzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
n-Heptane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Trichloroethene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Methyl methacrylate	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,4-Dioxane	5.0	U	5.0		ppb v/v			06/09/22 10:18	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
methyl isobutyl ketone	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Toluene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Chlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Ethylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
m,p-Xylene	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Xylene, o-	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Xylene (total)	0.70	U	0.70		ppb v/v			06/09/22 10:18	1
Styrene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Bromoform	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Cumene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
n-Propylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
2-Chlorotoluene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
tert-Butylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1

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

Lab Sample ID: MB 200-180638/4
Matrix: Air
Analysis Batch: 180638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
4-Isopropyltoluene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Benzyl chloride	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
n-Butylbenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ppb v/v			06/09/22 10:18	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			06/09/22 10:18	1
Naphthalene	0.50	U	0.50		ppb v/v			06/09/22 10:18	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			06/09/22 10:18	1
Freon 22	1.8	U	1.8		ug/m3			06/09/22 10:18	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			06/09/22 10:18	1
Chloromethane	1.0	U	1.0		ug/m3			06/09/22 10:18	1
n-Butane	1.2	U	1.2		ug/m3			06/09/22 10:18	1
Vinyl chloride	0.51	U	0.51		ug/m3			06/09/22 10:18	1
1,3-Butadiene	0.44	U	0.44		ug/m3			06/09/22 10:18	1
Bromomethane	0.78	U	0.78		ug/m3			06/09/22 10:18	1
Chloroethane	1.3	U	1.3		ug/m3			06/09/22 10:18	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87		ug/m3			06/09/22 10:18	1
Trichlorofluoromethane	1.1	U	1.1		ug/m3			06/09/22 10:18	1
Freon TF	1.5	U	1.5		ug/m3			06/09/22 10:18	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			06/09/22 10:18	1
Acetone	12	U	12		ug/m3			06/09/22 10:18	1
Isopropyl alcohol	12	U	12		ug/m3			06/09/22 10:18	1
Carbon disulfide	1.6	U	1.6		ug/m3			06/09/22 10:18	1
3-Chloropropene	1.6	U	1.6		ug/m3			06/09/22 10:18	1
Methylene Chloride	1.7	U	1.7		ug/m3			06/09/22 10:18	1
tert-Butyl alcohol	15	U	15		ug/m3			06/09/22 10:18	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			06/09/22 10:18	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/09/22 10:18	1
n-Hexane	1.8	U	1.8		ug/m3			06/09/22 10:18	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			06/09/22 10:18	1
Methyl Ethyl Ketone	1.5	U	1.5		ug/m3			06/09/22 10:18	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			06/09/22 10:18	1
1,2-Dichloroethene, Total	1.6	U	1.6		ug/m3			06/09/22 10:18	1
Chloroform	0.98	U	0.98		ug/m3			06/09/22 10:18	1
Tetrahydrofuran	15	U	15		ug/m3			06/09/22 10:18	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			06/09/22 10:18	1
Cyclohexane	0.69	U	0.69		ug/m3			06/09/22 10:18	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			06/09/22 10:18	1
2,2,4-Trimethylpentane	0.93	U	0.93		ug/m3			06/09/22 10:18	1
Benzene	0.64	U	0.64		ug/m3			06/09/22 10:18	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			06/09/22 10:18	1
n-Heptane	0.82	U	0.82		ug/m3			06/09/22 10:18	1
Trichloroethene	1.1	U	1.1		ug/m3			06/09/22 10:18	1
Methyl methacrylate	2.0	U	2.0		ug/m3			06/09/22 10:18	1

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

Lab Sample ID: MB 200-180638/4
Matrix: Air
Analysis Batch: 180638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.92	U	0.92		ug/m3			06/09/22 10:18	1
1,4-Dioxane	18	U	18		ug/m3			06/09/22 10:18	1
Bromodichloromethane	1.3	U	1.3		ug/m3			06/09/22 10:18	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/09/22 10:18	1
methyl isobutyl ketone	2.0	U	2.0		ug/m3			06/09/22 10:18	1
Toluene	0.75	U	0.75		ug/m3			06/09/22 10:18	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			06/09/22 10:18	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			06/09/22 10:18	1
Tetrachloroethene	1.4	U	1.4		ug/m3			06/09/22 10:18	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			06/09/22 10:18	1
Dibromochloromethane	1.7	U	1.7		ug/m3			06/09/22 10:18	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			06/09/22 10:18	1
Chlorobenzene	0.92	U	0.92		ug/m3			06/09/22 10:18	1
Ethylbenzene	0.87	U	0.87		ug/m3			06/09/22 10:18	1
m,p-Xylene	2.2	U	2.2		ug/m3			06/09/22 10:18	1
Xylene, o-	0.87	U	0.87		ug/m3			06/09/22 10:18	1
Xylene (total)	3.0	U	3.0		ug/m3			06/09/22 10:18	1
Styrene	0.85	U	0.85		ug/m3			06/09/22 10:18	1
Bromoform	2.1	U	2.1		ug/m3			06/09/22 10:18	1
Cumene	0.98	U	0.98		ug/m3			06/09/22 10:18	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			06/09/22 10:18	1
n-Propylbenzene	0.98	U	0.98		ug/m3			06/09/22 10:18	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			06/09/22 10:18	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			06/09/22 10:18	1
2-Chlorotoluene	1.0	U	1.0		ug/m3			06/09/22 10:18	1
tert-Butylbenzene	1.1	U	1.1		ug/m3			06/09/22 10:18	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			06/09/22 10:18	1
sec-Butylbenzene	1.1	U	1.1		ug/m3			06/09/22 10:18	1
4-Isopropyltoluene	1.1	U	1.1		ug/m3			06/09/22 10:18	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			06/09/22 10:18	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			06/09/22 10:18	1
Benzyl chloride	1.0	U	1.0		ug/m3			06/09/22 10:18	1
n-Butylbenzene	1.1	U	1.1		ug/m3			06/09/22 10:18	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			06/09/22 10:18	1
1,2,4-Trichlorobenzene	3.7	U	3.7		ug/m3			06/09/22 10:18	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			06/09/22 10:18	1
Naphthalene	2.6	U	2.6		ug/m3			06/09/22 10:18	1

Lab Sample ID: LCS 200-180638/3
Matrix: Air
Analysis Batch: 180638

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	11.1		ppb v/v		111	61 - 142
Freon 22	10.0	11.2		ppb v/v		112	60 - 147
1,2-Dichlorotetrafluoroethane	10.0	10.6		ppb v/v		106	71 - 141
Chloromethane	10.0	11.1		ppb v/v		111	56 - 141
n-Butane	10.0	8.75		ppb v/v		87	53 - 151
Vinyl chloride	10.0	9.00		ppb v/v		90	61 - 135

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

Lab Sample ID: LCS 200-180638/3
Matrix: Air
Analysis Batch: 180638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Butadiene	10.0	8.12		ppb v/v		81	58 - 139
Bromomethane	10.0	10.4		ppb v/v		104	72 - 124
Chloroethane	10.0	10.7		ppb v/v		107	68 - 130
Bromoethene(Vinyl Bromide)	10.0	9.94		ppb v/v		99	75 - 125
Trichlorofluoromethane	10.0	10.7		ppb v/v		107	70 - 129
Freon TF	10.0	10.8		ppb v/v		108	70 - 121
1,1-Dichloroethene	10.0	9.85		ppb v/v		99	68 - 120
Acetone	10.0	11.2		ppb v/v		112	54 - 154
Isopropyl alcohol	10.0	8.98		ppb v/v		90	53 - 142
Carbon disulfide	10.0	10.1		ppb v/v		101	71 - 138
3-Chloropropene	10.0	9.21		ppb v/v		92	50 - 150
Methylene Chloride	10.0	10.3		ppb v/v		103	59 - 137
tert-Butyl alcohol	10.0	10.5		ppb v/v		105	66 - 132
Methyl tert-butyl ether	10.0	10.8		ppb v/v		108	70 - 127
trans-1,2-Dichloroethene	10.0	10.3		ppb v/v		103	69 - 137
n-Hexane	10.0	9.85		ppb v/v		99	63 - 138
1,1-Dichloroethane	10.0	10.6		ppb v/v		106	66 - 130
Methyl Ethyl Ketone	10.0	10.2		ppb v/v		102	72 - 124
cis-1,2-Dichloroethene	10.0	10.0		ppb v/v		100	72 - 121
Chloroform	10.0	10.8		ppb v/v		108	73 - 124
Tetrahydrofuran	10.0	9.09		ppb v/v		91	60 - 149
1,1,1-Trichloroethane	10.0	10.4		ppb v/v		104	72 - 127
Cyclohexane	10.0	9.75		ppb v/v		97	76 - 124
Carbon tetrachloride	10.0	10.1		ppb v/v		101	71 - 133
2,2,4-Trimethylpentane	10.0	9.58		ppb v/v		96	68 - 131
Benzene	10.0	9.63		ppb v/v		96	73 - 119
1,2-Dichloroethane	10.0	10.8		ppb v/v		108	68 - 135
n-Heptane	10.0	9.44		ppb v/v		94	60 - 142
Trichloroethene	10.0	10.2		ppb v/v		102	73 - 122
Methyl methacrylate	10.0	10.1		ppb v/v		101	73 - 129
1,2-Dichloropropane	10.0	9.71		ppb v/v		97	69 - 128
1,4-Dioxane	10.0	10.3		ppb v/v		103	66 - 129
Bromodichloromethane	10.0	10.3		ppb v/v		103	75 - 127
cis-1,3-Dichloropropene	10.0	9.68		ppb v/v		97	74 - 125
methyl isobutyl ketone	10.0	10.3		ppb v/v		103	58 - 144
Toluene	10.0	9.72		ppb v/v		97	75 - 122
trans-1,3-Dichloropropene	10.0	10.4		ppb v/v		104	74 - 128
1,1,2-Trichloroethane	10.0	9.84		ppb v/v		98	75 - 126
Tetrachloroethene	10.0	9.91		ppb v/v		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10.0	10.4		ppb v/v		104	57 - 143
Dibromochloromethane	10.0	9.93		ppb v/v		99	73 - 125
1,2-Dibromoethane	10.0	10.3		ppb v/v		103	78 - 122
Chlorobenzene	10.0	9.89		ppb v/v		99	76 - 119
Ethylbenzene	10.0	10.3		ppb v/v		103	74 - 122
m,p-Xylene	20.0	22.2		ppb v/v		111	76 - 121
Xylene, o-	10.0	10.3		ppb v/v		103	73 - 123
Styrene	10.0	10.9		ppb v/v		109	74 - 125
Bromoform	10.0	9.30		ppb v/v		93	53 - 149

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

Lab Sample ID: LCS 200-180638/3
Matrix: Air
Analysis Batch: 180638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cumene	10.0	10.4		ppb v/v		104	73 - 123
1,1,2,2-Tetrachloroethane	10.0	9.81		ppb v/v		98	74 - 126
n-Propylbenzene	10.0	10.4		ppb v/v		104	73 - 127
4-Ethyltoluene	10.0	10.5		ppb v/v		105	75 - 129
1,3,5-Trimethylbenzene	10.0	10.7		ppb v/v		107	72 - 126
2-Chlorotoluene	10.0	10.3		ppb v/v		103	74 - 126
tert-Butylbenzene	10.0	10.2		ppb v/v		102	71 - 125
1,2,4-Trimethylbenzene	10.0	10.8		ppb v/v		108	71 - 129
sec-Butylbenzene	10.0	10.4		ppb v/v		104	70 - 128
4-Isopropyltoluene	10.0	10.8		ppb v/v		108	68 - 130
1,3-Dichlorobenzene	10.0	10.6		ppb v/v		106	69 - 131
1,4-Dichlorobenzene	10.0	10.4		ppb v/v		105	67 - 132
Benzyl chloride	10.0	9.53		ppb v/v		95	60 - 136
n-Butylbenzene	10.0	11.0		ppb v/v		110	65 - 137
1,2-Dichlorobenzene	10.0	10.5		ppb v/v		105	68 - 129
1,2,4-Trichlorobenzene	10.0	7.56		ppb v/v		76	50 - 150
Hexachlorobutadiene	10.0	8.67		ppb v/v		87	58 - 130
Naphthalene	10.0	7.43		ppb v/v		74	50 - 150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49	54.8		ug/m3		111	61 - 142
Freon 22	35	39.5		ug/m3		112	60 - 147
1,2-Dichlorotetrafluoroethane	70	74.2		ug/m3		106	71 - 141
Chloromethane	21	22.9		ug/m3		111	56 - 141
n-Butane	24	20.8		ug/m3		87	53 - 151
Vinyl chloride	26	23.0		ug/m3		90	61 - 135
1,3-Butadiene	22	18.0		ug/m3		81	58 - 139
Bromomethane	39	40.4		ug/m3		104	72 - 124
Chloroethane	26	28.2		ug/m3		107	68 - 130
Bromoethene(Vinyl Bromide)	44	43.5		ug/m3		99	75 - 125
Trichlorofluoromethane	56	59.9		ug/m3		107	70 - 129
Freon TF	77	82.6		ug/m3		108	70 - 121
1,1-Dichloroethene	40	39.1		ug/m3		99	68 - 120
Acetone	24	26.5		ug/m3		112	54 - 154
Isopropyl alcohol	25	22.1		ug/m3		90	53 - 142
Carbon disulfide	31	31.6		ug/m3		101	71 - 138
3-Chloropropene	31	28.8		ug/m3		92	50 - 150
Methylene Chloride	35	35.7		ug/m3		103	59 - 137
tert-Butyl alcohol	30	31.9		ug/m3		105	66 - 132
Methyl tert-butyl ether	36	38.9		ug/m3		108	70 - 127
trans-1,2-Dichloroethene	40	41.0		ug/m3		103	69 - 137
n-Hexane	35	34.7		ug/m3		99	63 - 138
1,1-Dichloroethane	40	42.9		ug/m3		106	66 - 130
Methyl Ethyl Ketone	29	30.0		ug/m3		102	72 - 124
cis-1,2-Dichloroethene	40	39.7		ug/m3		100	72 - 121
Chloroform	49	52.9		ug/m3		108	73 - 124
Tetrahydrofuran	29	26.8		ug/m3		91	60 - 149
1,1,1-Trichloroethane	55	56.9		ug/m3		104	72 - 127
Cyclohexane	34	33.5		ug/m3		97	76 - 124

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

Lab Sample ID: LCS 200-180638/3
Matrix: Air
Analysis Batch: 180638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	63	63.6		ug/m3		101	71 - 133
2,2,4-Trimethylpentane	47	44.8		ug/m3		96	68 - 131
Benzene	32	30.8		ug/m3		96	73 - 119
1,2-Dichloroethane	40	43.7		ug/m3		108	68 - 135
n-Heptane	41	38.7		ug/m3		94	60 - 142
Trichloroethene	54	55.1		ug/m3		102	73 - 122
Methyl methacrylate	41	41.3		ug/m3		101	73 - 129
1,2-Dichloropropane	46	44.9		ug/m3		97	69 - 128
1,4-Dioxane	36	37.0		ug/m3		103	66 - 129
Bromodichloromethane	67	68.9		ug/m3		103	75 - 127
cis-1,3-Dichloropropene	45	43.9		ug/m3		97	74 - 125
methyl isobutyl ketone	41	42.1		ug/m3		103	58 - 144
Toluene	38	36.6		ug/m3		97	75 - 122
trans-1,3-Dichloropropene	45	47.0		ug/m3		104	74 - 128
1,1,2-Trichloroethane	55	53.7		ug/m3		98	75 - 126
Tetrachloroethene	68	67.2		ug/m3		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41	42.6		ug/m3		104	57 - 143
Dibromochloromethane	85	84.6		ug/m3		99	73 - 125
1,2-Dibromoethane	77	79.1		ug/m3		103	78 - 122
Chlorobenzene	46	45.5		ug/m3		99	76 - 119
Ethylbenzene	43	44.9		ug/m3		103	74 - 122
m,p-Xylene	87	96.3		ug/m3		111	76 - 121
Xylene, o-	43	44.8		ug/m3		103	73 - 123
Styrene	43	46.6		ug/m3		109	74 - 125
Bromoform	100	96.2		ug/m3		93	53 - 149
Cumene	49	51.0		ug/m3		104	73 - 123
1,1,2,2-Tetrachloroethane	69	67.4		ug/m3		98	74 - 126
n-Propylbenzene	49	51.1		ug/m3		104	73 - 127
4-Ethyltoluene	49	51.6		ug/m3		105	75 - 129
1,3,5-Trimethylbenzene	49	52.8		ug/m3		107	72 - 126
2-Chlorotoluene	52	53.5		ug/m3		103	74 - 126
tert-Butylbenzene	55	56.0		ug/m3		102	71 - 125
1,2,4-Trimethylbenzene	49	53.1		ug/m3		108	71 - 129
sec-Butylbenzene	55	56.8		ug/m3		104	70 - 128
4-Isopropyltoluene	55	59.3		ug/m3		108	68 - 130
1,3-Dichlorobenzene	60	63.8		ug/m3		106	69 - 131
1,4-Dichlorobenzene	60	62.8		ug/m3		105	67 - 132
Benzyl chloride	52	49.3		ug/m3		95	60 - 136
n-Butylbenzene	55	60.5		ug/m3		110	65 - 137
1,2-Dichlorobenzene	60	63.0		ug/m3		105	68 - 129
1,2,4-Trichlorobenzene	74	56.1		ug/m3		76	50 - 150
Hexachlorobutadiene	110	92.5		ug/m3		87	58 - 130
Naphthalene	52	38.9		ug/m3		74	50 - 150

QC Association Summary

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Air - GC/MS VOA

Analysis Batch: 180551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-63678-2	SV-02-060122	Total/NA	Air	TO-15	
MB 200-180551/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-180551/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 180553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-63678-1	SV-01-060122	Total/NA	Air	TO-15	
MB 200-180553/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-180553/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 180638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-63678-1 - DL	SV-01-060122	Total/NA	Air	TO-15	
200-63678-2 - DL	SV-02-060122	Total/NA	Air	TO-15	
200-63678-3	SV-03-060122	Total/NA	Air	TO-15	
200-63678-3 - DL	SV-03-060122	Total/NA	Air	TO-15	
200-63678-4	SV-04-060122	Total/NA	Air	TO-15	
200-63678-4 - DL	SV-04-060122	Total/NA	Air	TO-15	
MB 200-180638/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-180638/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Client Sample ID: SV-01-060122
Lab Sample ID: 200-63678-1
Date Collected: 06/01/22 11:20
Matrix: Air
Date Received: 06/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5	180553	06/08/22 02:57	K1P	TAL BUR
Total/NA	Analysis	TO-15	DL	10	180638	06/09/22 18:41	A1B	TAL BUR

Client Sample ID: SV-02-060122
Lab Sample ID: 200-63678-2
Date Collected: 06/01/22 12:15
Matrix: Air
Date Received: 06/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		8	180551	06/08/22 04:02	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	40	180638	06/09/22 19:33	A1B	TAL BUR

Client Sample ID: SV-03-060122
Lab Sample ID: 200-63678-3
Date Collected: 06/01/22 10:10
Matrix: Air
Date Received: 06/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	180638	06/09/22 20:25	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	8	180638	06/09/22 21:17	A1B	TAL BUR

Client Sample ID: SV-04-060122
Lab Sample ID: 200-63678-4
Date Collected: 06/01/22 09:40
Matrix: Air
Date Received: 06/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		9	180638	06/09/22 22:10	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	45.2	180638	06/09/22 23:02	A1B	TAL BUR

Laboratory References:
TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	1,2-Dichloroethene, Total
TO-15		Air	1,4-Dioxane
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Freon 22
TO-15		Air	m,p-Xylene
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: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

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 = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AECOM
Project/Site: HUB Building Long Island City

Job ID: 200-63678-1
SDG: 200-63678-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-63678-1	SV-01-060122	Air	06/01/22 11:20	06/04/22 09:35	Air Canister (6-Liter) #3559
200-63678-2	SV-02-060122	Air	06/01/22 12:15	06/04/22 09:35	Air Canister (6-Liter) #5074
200-63678-3	SV-03-060122	Air	06/01/22 10:10	06/04/22 09:35	Air Canister (6-Liter) #4557
200-63678-4	SV-04-060122	Air	06/01/22 09:40	06/04/22 09:35	Air Canister (6-Liter) #3028

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-63678	06/04/22	13:14	29.4	21	6210	JPB

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
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
200-63678-A-1	3559	-1.1	N	3963	91/5	Y	3559-50372	
200-63678-A-2	5074	-5.5	N	5826	91/5	Y	5074-50352	
200-63678-A-3	4557	-3.5	N	2757	91/5	Y	4557-50394	
200-63678-A-4	3028	-4.6	N	4513	91/5	Y	3028-50415	

[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

Eurofins 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

200-63678 Chain of Custody

Client Contact Information	**Client Project Manager: Christine Wagner**	**Samples Collected By:** Jay Patel	COC No
Company Name. **AECOM**	**Phone:**973-883-8694		___1___ of ___1___ COCs
Address **1255 Broad Street**	**Email:**christine wagner@aecom com		TALS Project #
City/State/Zip **Clifton, NJ 07043**			**For Lab Use Only:**
Phone 973-883-8500	**Site Contact:** Jay Patel		Walk-in Client:
FAX	**Tel/Fax:** 201-757-2958		Lab Sampling
Project Name **HUB Building - Long Island City**	**Analysis Turnaround Time**		
Site/Location **47-25 34th Street, Long Island City, NY**	Standard (Specific) _____X_____		Job / SDG No
P O #	Rush (Specifiy) _____		(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	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 section)	*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:
SV-01-060122	6/1/2022	10 20	6/1/2022	11 20	-30	-3	3963	3559		X								X					
SV-02-060122	6/1/2022	11 15	6/1/2022	12 15	-25	0	5826	5074		X								X					
SV-03-060122	6/1/2022	9 10	6/1/2022	10 10	-30	-5	2757	4557		X								X					
SV-04-060122	6/1/2022	8 40	6/1/2022	9 40	-30	-5	4513	3028		X								X					

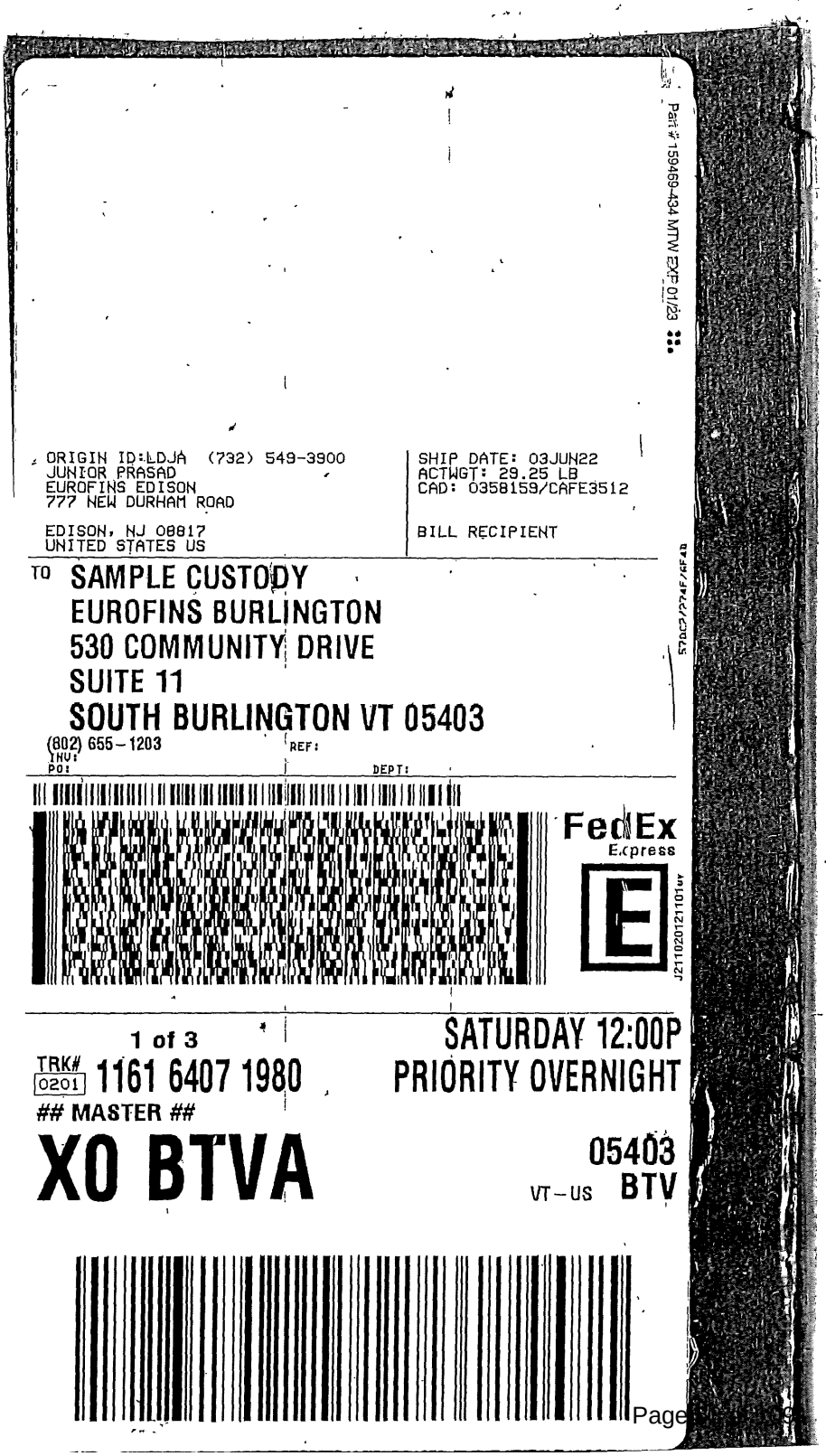
Temperature (Fahrenheit)			
Start	Interior: 72	Ambient	64
Stop	72		70

Pressure (inches of Hg)			
Start	Interior:	Ambient	29.99
Stop			30

Special Instructions/QC Requirements & Comments: *Confirm Analysis and deliverables with P.M (Christine Wagner)*

Samples Shipped by:	**Date / Time:** 6-10-22 12:18	**Samples Received by:**	
Samples Relinquished by: *Jay Patel*	**Date / Time:** 6/2/2022 18:00	**Received by:** EETNJ	
Relinquished by: EETNJ	**Date / Time:** 6/3/22 1900	**Received by:** John P. Barr ETA BVI 6/4/22	9:35
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 2.25, dated 10/6/2020



Part # 159469-434 MTW EXP 01/23

ORIGIN ID:LDJA (732) 549-3900
JUNIOR PRASAD
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 03JUN22
ACTWGT: 29.25 LB
CAD: 0358159/CAFE3512

BILL RECIPIENT

TO SAMPLE CUSTODY
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 655-1203

REF:

INV:

PO:

DEPT:

FedEx Express

J211020121101mv

1 of 3

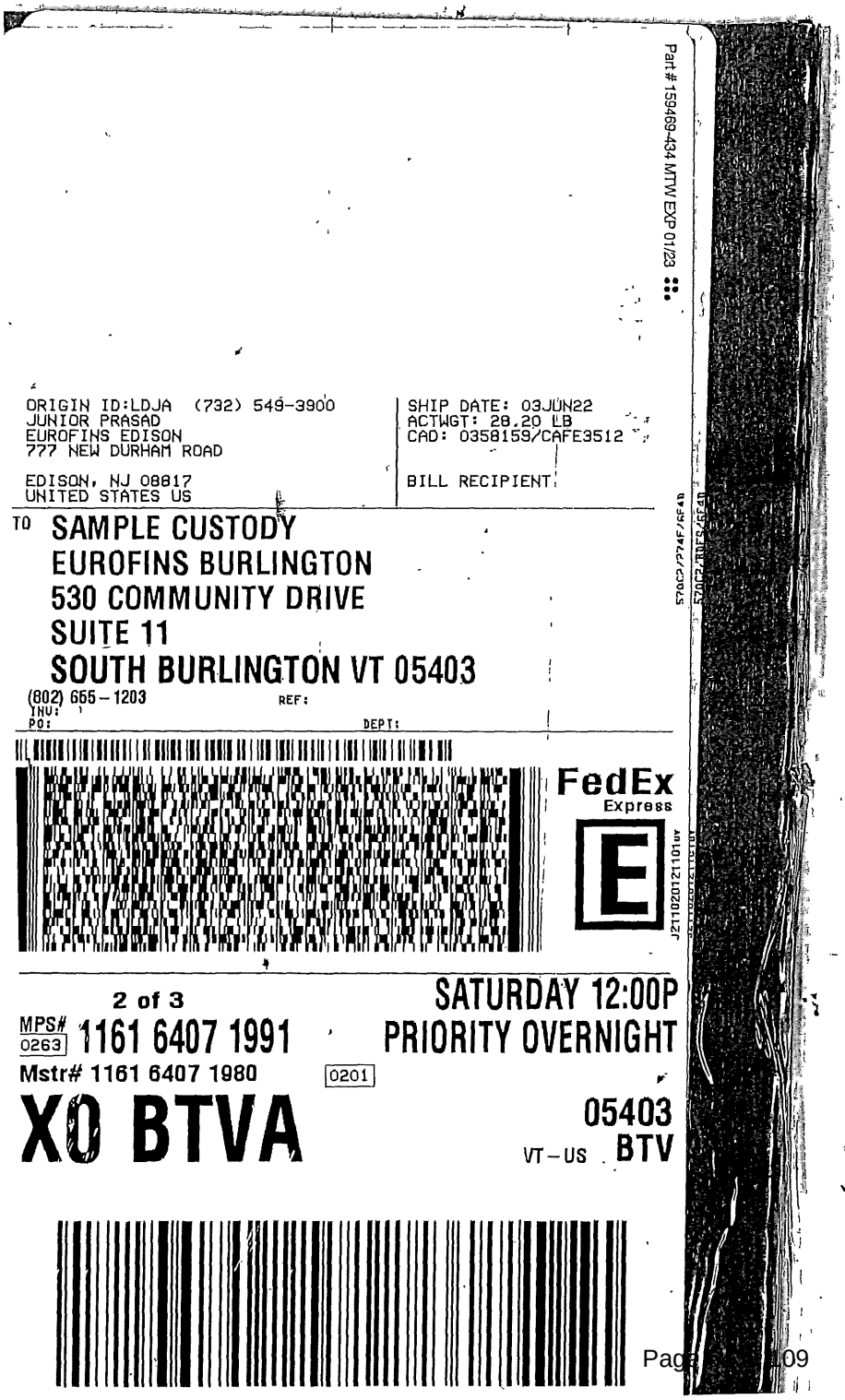
TRK# 0201 1161 6407 1980

MASTER

XO BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403
VT-US BTV



Part # 159469-494 MTW EXP 01/23

ORIGIN ID:LDJA (732) 549-3900
JUNIOR PRASAD
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 03JUN22
ACTWGT: 28.20 LB
CAD: 0358159/CAFE3512

BILL RECIPIENT

TO SAMPLE CUSTODY
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203 REF:
INV:
PO: DEPT:

FedEx Express

2 of 3
MPS# 0263 1161 6407 1991
Mstr# 1161 6407 1980 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV



Part # 156966-434 MTJW EXP 0/123

ORIGIN ID:LDJA (732) 549-3900
JUNIOR PRASAD
EUROFINS EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 03JUN22
ACTWGT: 7.40 LB
CAD: 0358159/CAFE3512

BILL RECIPIENT

TO SAMPLE CUSTODY
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 655-1203
INV:
PO:
REF:
DEPT:

576C2/2724F/4F43

FedEx Express

J211020121101ur

3 of 3

MPS# 0263 1161 6407 2005

Mstr# 1161 6407 1980

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

eurofins | Environment Testing

Login Sample Receipt Checklist

Client: AECOM

Job Number: 200-63678-1
SDG Number: 200-63678-1

Login Number: 63678
List Number: 1
Creator: Beane, John P

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1480328, 1480327, 1480329
Sample custody seals, if present, are intact.	N/A	Not Present
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	
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.	True	
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	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	25	4/7/2022	1410	20	20	SML	6 liter	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	2585	.04	.04	0	29.6	G26	4/8/22	1134	←	20.0	G26	4/16/22	1052	←	21.0
2	5136		.04	0		G26					G26				
3	4356		.04	0		G26					G26				
4	3025		.04	0		G26					G26				
5	2743		.04	0		G26					G26				
6	4942		.04	0		G26					G26				
7	3153		.04	0		G26					G26				
8	2681		.04	0		G26					G26				
9	3348		.04	0		G26					G26				
10	3259		.04	0		G26					G26				
11	6305	←	.04	0	←	G26	←	←	←	←	G26	←	←	←	←
12	5074	.04	.04	0	29.7	G26	4/16/22	1157	←	21.0	G26	4/17/22	1253	←	21.0

[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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Review
5074	4/13/22	5g352	VSP		XXXXXXX				4/13/22	JPB

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

NJ

200-62912-A-12
5074
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/7/2022 12:00 AM 200-1603551

Loc: 200
62912
#12 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	10	25	4/9/2022	1537	20	20	SML	6 liter	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	5425	.04	.04	0	29.6	G26	4/10/22	1200	←	21.0	G26	4/16/22	1311	←	21.0
2	3559	.04	.04	0	29.7	G26	4/16/22	1400	←	21.0	G26	4/17/22	1434	←	21.0
3	3549	.04	.04	0	29.6	G26	4/10/22	1200	←	21.0	G26	4/16/22	1311	←	21.0
4	5119		.19	.15		G26					G26				
5	2537		.04	0		G26					G26				
6	5691		.04	0		G26					G26				
7	5077		.04	0		G26					G26				
8	3029		.04	0		G26					G26				
9	4079		.04	0		G26					G26				
10	4371		.10	.06		G26					G26				
11	3266		.04	0		G26					G26				
12	3210		.04	0		G26					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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
3559	4/14/22	50372	VTP		XXXXXX				4/14/22	RDT

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

200-62949-A-2
3559
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/9/2022 12:00 AM
200-1604485
Loc: 200
62949
#2 A
Air-Storag

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Bottom Rack	180	50	4/10/2022	1242	21	21	SML	6 liter	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	2786	.04	1.01	0	29.6	G26	4/12/22	1033	C	22.0	G26	4/16/22	1325	C	21.0
2	3220	1	.01	0	1	G26	1	1	1	1	G26	1	1	1	1
3	4557	1.01	.04	0	29.7	G26	4/16/22	1402	C	21.0	G26	4/17/22	1431	C	21.0
4	5087	.04	.04	0	29.6	G26	4/12/22	1033	C	22.0	G26	4/16/22	1325	C	21.0
5	2892		.04	0		G26					G26				
6	3565		.04	0		G26					G26				
7	3626		.04	0		G26					G26				
8	5431		.04	0		G26					G26				
9	4574		.04	0		G26					G26				
10	5448		.04	0		G26					G26				
11	5079		.17	.17		G26					G26				
12	4012	1	.04	0	1	G26	1	1	1	1	G26	1	1	1	1

NS

[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: X TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Review
4557	4/14/22	50394	VIP		XXXXXXXX				4/15/22	DAB

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-62952-A-3
4557
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/10/2022 12:00 AM
200-1604498

Loc: 200
62952
#3 A
Air-Storag

6/13/2022

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Top Rack	10	25	4/12/2022	1149	22	22	SML	6 liter	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	5035	104	104	0	29.7	G26	4/14/22	1125	←	22.0	G26	4/17/22	1256	←	21.0
2	4342	↓	104	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
3	3083	↓	.21	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
4	3028	104	104	0	29.9	G26	4/17/22	1236	←	21.0	G26	4/18/22	1324	←	21.0
5	3310	.04	.04	0	29.7	G26	4/14/22	1125	←	22.0	G26	4/17/22	1256	←	21.0
6	5619	↓	.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
7	5441	↓	.16	.12	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
8	4301	↓	.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
9	3390	↓	.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
10	34001039	↓	.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
11	3370	↓	.04	0	↓	G26	↓	↓	↓	↓	G26	↓	↓	↓	↓
12	4807	↓	.04	0	↓	G26	↓	↓	↓	↓	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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
3028	4/15/22	50415	WMO		XXXXXXX				4/17/22	WMO

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 Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Form ID: FAI023:12
Revision Date: 12/18/2018

200-62960-A-4
3028
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/12/2022 12:00 AM 200-1604853
Loc: 200
62960
#4 A
Air-Storag

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62912-1

SDG No.:

Client Sample ID: 5074 Lab Sample ID: 200-62912-12

Matrix: Air Lab File ID: 50352-006.d

Analysis Method: TO-15 Date Collected: 04/07/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/12/2022 12:16

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178664 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62912-1

SDG No.:

Client Sample ID: 5074 Lab Sample ID: 200-62912-12

Matrix: Air Lab File ID: 50352-006.d

Analysis Method: TO-15 Date Collected: 04/07/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/12/2022 12:16

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178664 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220412-50352.b\50352-006.d
Lims ID: 200-62912-A-12
Client ID: 5074
Sample Type: Client
Inject. Date: 12-Apr-2022 12:16:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050352-006
Misc. Info.: 62912-12
Operator ID: wrd Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220412-50352.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Apr-2022 08:42:00 Calib Date: 17-Feb-2022 08:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220216-49589.b\49589-018.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1669

First Level Reviewer: bourdeaut Date: 13-Apr-2022 08:42:56

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		3.987				ND	7
	2 Dichlorodifluoromethane	85		4.078				ND	
	3 Chlorodifluoromethane	51		4.121				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.431				ND	
	5 Chloromethane	50		4.538				ND	
	6 Vinyl chloride	62		4.848				ND	
	7 Butane	43		4.848				ND	
	8 Butadiene	54		4.966				ND	
	9 Bromomethane	94		5.672				ND	
	10 Chloroethane	64		5.950				ND	
	13 Vinyl bromide	106		6.373				ND	
	14 Trichlorofluoromethane	101		6.533				ND	
	16 Ethanol	45		6.935				ND	7
	20 1,1-Dichloroethene	96		7.603				ND	
	21 112TCTFE	101		7.646				ND	
	22 Acetone	43		7.700				ND	
	23 Isopropyl alcohol	45		8.005				ND	
	24 Carbon disulfide	76	8.005	8.010	-0.006	94	1631	0.0399	
	26 3-Chloro-1-propene	41		8.304				ND	
	27 Methylene Chloride	49		8.534				ND	7
	28 2-Methyl-2-propanol	59		8.780				ND	
	30 trans-1,2-Dichloroethene	61		9.037				ND	
	31 Methyl tert-butyl ether	73		9.058				ND	
	32 Hexane	57		9.545				ND	
	33 1,1-Dichloroethane	63		9.797				ND	
	34 Vinyl acetate	43		9.818				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.770				ND	
	37 cis-1,2-Dichloroethene	96		10.786				ND	
	38 Ethyl acetate	88		10.861				ND	
*	39 Chlorobromomethane	128	11.193	11.198	-0.005	94	90203	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.257				ND	
	41 Chloroform	83		11.380				ND	
	42 1,1,1-Trichloroethane	97		11.680				ND	
	43 Cyclohexane	84		11.819				ND	
	44 Carbon tetrachloride	117		11.958				ND	
	45 Benzene	78		12.306				ND	
	46 1,2-Dichloroethane	62		12.381				ND	
	47 Isooctane	57		12.525				ND	
	48 n-Heptane	43		12.841				ND	
*	49 1,4-Difluorobenzene	114	13.049	13.049	0.000	96	461966	10.0	
	51 Trichloroethene	95		13.477				ND	
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.034				ND	
	55 1,4-Dioxane	88		14.076				ND	
	57 Dibromomethane	174		14.087				ND	
	58 Dichlorobromomethane	83		14.403				ND	
	59 cis-1,3-Dichloropropene	75		15.205				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.478				ND	
	62 Toluene	92		15.847				ND	
	66 trans-1,3-Dichloropropene	75		16.259				ND	
	67 1,1,2-Trichloroethane	83		16.639				ND	
	68 Tetrachloroethene	166		16.837				ND	
	69 2-Hexanone	43		17.056				ND	
	70 Chlorodibromomethane	129		17.372				ND	
	71 Ethylene Dibromide	107		17.607				ND	
*	73 Chlorobenzene-d5	117	18.522	18.522	0.000	89	325282	10.0	
	74 Chlorobenzene	112		18.581				ND	
	75 Ethylbenzene	91		18.779				ND	
	76 m-Xylene & p-Xylene	106		19.041				ND	
	78 o-Xylene	106		19.811				ND	
	79 Styrene	104		19.849				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.207				ND	
	82 Isopropylbenzene	105		20.539				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.068				ND	
	85 N-Propylbenzene	91		21.277				ND	
	86 2-Chlorotoluene	91		21.422				ND	
	87 4-Ethyltoluene	105		21.480				ND	
	88 1,3,5-Trimethylbenzene	105		21.577				ND	
	91 tert-Butylbenzene	119		22.064				ND	
	92 1,2,4-Trimethylbenzene	105		22.154				ND	
	93 sec-Butylbenzene	105		22.401				ND	
	94 1,3-Dichlorobenzene	146		22.566				ND	
	95 4-Isopropyltoluene	119		22.620				ND	
	96 1,4-Dichlorobenzene	146		22.711				ND	
	97 Benzyl chloride	91		22.861				ND	
	98 n-Butylbenzene	91		23.171				ND	
	99 1,2-Dichlorobenzene	146		23.198				ND	
	102 1,2,4-Trichlorobenzene	180		25.578				ND	
	103 Hexachlorobutadiene	225		25.819				ND	
	104 Naphthalene	128		26.038				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

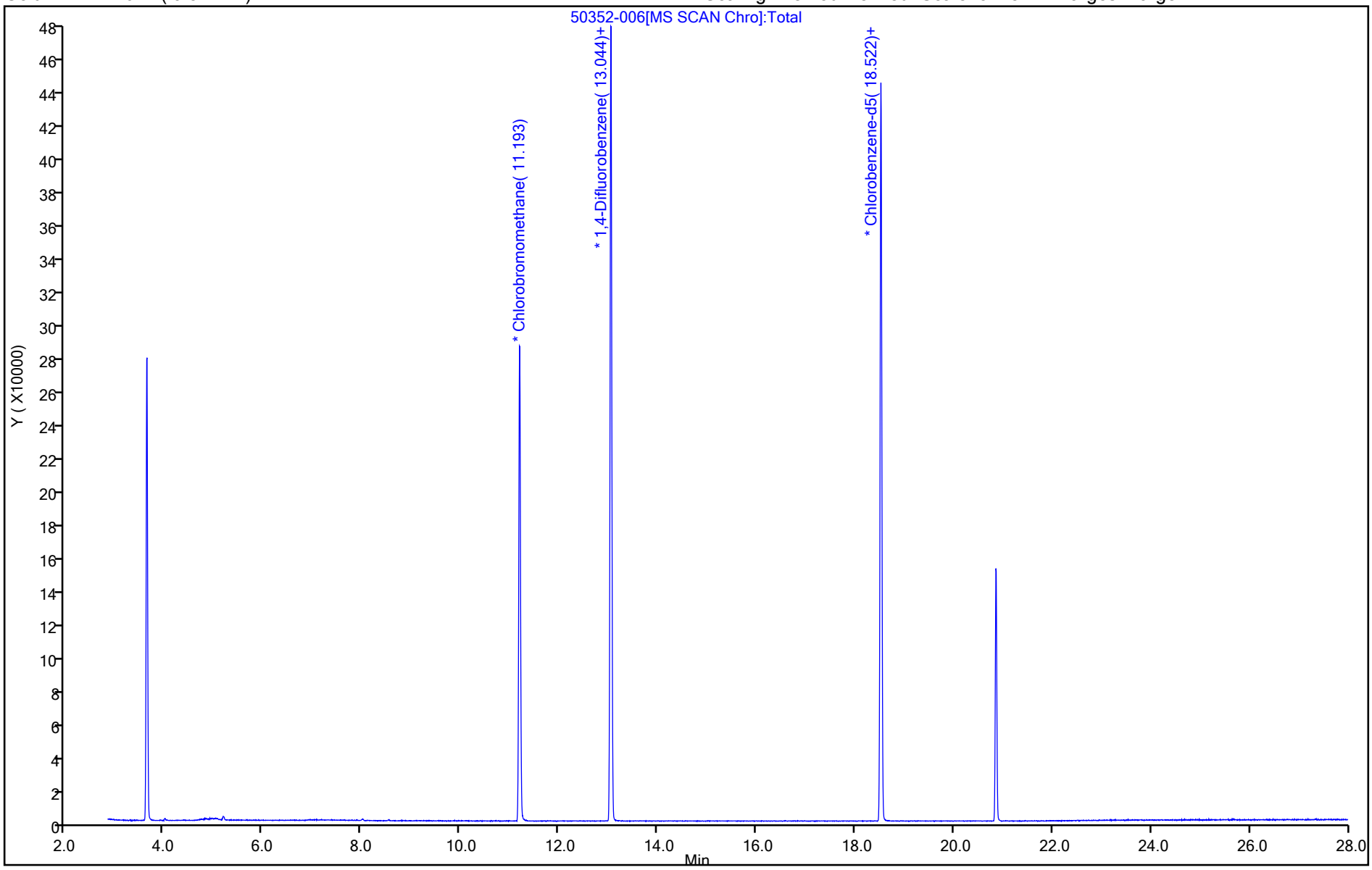
Report Date: 13-Apr-2022 08:42:56 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220412-50352.b\50352-006.d

Injection Date:	12-Apr-2022 12:16:30	Instrument ID:	CHW.i	Operator ID:	wrd
Lims ID:	200-62912-A-12	Lab Sample ID:	200-62912-12	Worklist Smp#:	6
Client ID:	5074				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_TO3_MasterMethod_W	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: Eurofins Burlington Job No.: 200-62949-1

SDG No.:

Client Sample ID: 3559 Lab Sample ID: 200-62949-2

Matrix: Air Lab File ID: 50372-05.D

Analysis Method: TO-15 Date Collected: 04/09/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/13/2022 11:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178705 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	0.10	U	0.10	0.10
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62949-1

SDG No.:

Client Sample ID: 3559 Lab Sample ID: 200-62949-2

Matrix: Air Lab File ID: 50372-05.D

Analysis Method: TO-15 Date Collected: 04/09/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/13/2022 11:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178705 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62949-1

SDG No.:

Client Sample ID: 3559 Lab Sample ID: 200-62949-2

Matrix: Air Lab File ID: 50372-05.D

Analysis Method: TO-15 Date Collected: 04/09/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/13/2022 11:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178705 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220413-50372.b\50372-05.D
Lims ID: 200-62949-A-2
Client ID: 3559
Sample Type: Client
Inject. Date: 13-Apr-2022 11:04:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050372-005
Operator ID: vtp Instrument ID: CHC.i

Method: \\chromfs\Burlington\ChromData\CHC.i\20220413-50372.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 14-Apr-2022 08:32:41 Calib Date: 12-Apr-2022 01:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20220411-50344.b\50344-14.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: phamvu Date: 14-Apr-2022 08:34:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.815				ND	U
2 Dichlorodifluoromethane	85		2.874				ND	7
3 Chlorodifluoromethane	51		2.911				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.103				ND	7
5 Chloromethane	50		3.210				ND	7
6 Butane	43		3.402				ND	7
7 Vinyl chloride	62		3.424				ND	
8 Butadiene	54		3.493				ND	7
9 Bromomethane	94		4.080				ND	
10 Chloroethane	64		4.299				ND	
13 Vinyl bromide	106		4.662				ND	
14 Trichlorofluoromethane	101		4.779				ND	
16 Ethanol	45		5.350				ND	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.820				ND	
20 1,1-Dichloroethene	96		5.825				ND	
21 Acetone	43		6.039				ND	7
22 Carbon disulfide	76		6.188				ND	U
23 Isopropyl alcohol	45		6.418				ND	
24 3-Chloro-1-propene	41		6.567				ND	7
26 Methylene Chloride	49		6.845				ND	7
28 2-Methyl-2-propanol	59		7.197				ND	
29 trans-1,2-Dichloroethene	61		7.304				ND	
30 Methyl tert-butyl ether	73		7.330				ND	
32 Hexane	57		7.741				ND	
33 1,1-Dichloroethane	63		8.131				ND	
34 Vinyl acetate	43		8.243				ND	7
35 cis-1,2-Dichloroethene	96		9.214				ND	
36 2-Butanone (MEK)	72		9.273				ND	
37 Ethyl acetate	88		9.369				ND	
* 38 Chlorobromomethane	128	9.652	9.652	0.000	84	543541	20.0	
39 Tetrahydrofuran	42		9.732				ND	7
40 Chloroform	83		9.807				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 1,1,1-Trichloroethane	97		10.079				ND	
	42 Cyclohexane	84		10.095				ND	
S	43 1,2-Dichloroethene, Total	61		10.200				ND	7
	44 Carbon tetrachloride	117		10.351				ND	
	45 Benzene	78		10.767				ND	7
	46 Isooctane	57		10.831				ND	
	47 1,2-Dichloroethane	62		10.917				ND	
	48 n-Heptane	43		11.237				ND	7
*	49 1,4-Difluorobenzene	114	11.616	11.616	0.000	94	3016227	20.0	
	50 Trichloroethene	95		12.086				ND	
	53 1,2-Dichloropropane	63		12.582				ND	
	55 Methyl methacrylate	69		12.827				ND	
	56 Dibromomethane	174		12.833				ND	7
	57 1,4-Dioxane	88		12.886				ND	
	58 Dichlorobromomethane	83		13.158				ND	
	59 cis-1,3-Dichloropropene	75		14.119				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		14.455				ND	7
	62 Toluene	92		14.738				ND	U
	66 trans-1,3-Dichloropropene	75		15.330				ND	7
	67 1,1,2-Trichloroethane	83		15.693				ND	
	68 Tetrachloroethene	166		15.864				ND	
	69 2-Hexanone	43		16.216				ND	7
	70 Chlorodibromomethane	129		16.462				ND	
	71 Ethylene Dibromide	107		16.707				ND	
*	72 Chlorobenzene-d5	117	17.647	17.647	0.000	87	2719662	20.0	
	73 Chlorobenzene	112		17.705				ND	
	74 Ethylbenzene	91		17.887				ND	7
	76 m-Xylene & p-Xylene	106		18.143				ND	7
	77 o-Xylene	106		18.975				ND	
	78 Styrene	104		19.023				ND	
	80 Bromoform	173		19.429				ND	
	81 Isopropylbenzene	105		19.728				ND	7
S	82 Xylenes, Total	106		20.100				ND	7
	83 1,1,2,2-Tetrachloroethane	83		20.422				ND	
	85 N-Propylbenzene	91		20.534				ND	7
	86 2-Chlorotoluene	91		20.731				ND	7
	87 4-Ethyltoluene	105		20.747				ND	7
	89 1,3,5-Trimethylbenzene	105		20.865				ND	7
	91 tert-Butylbenzene	119		21.388				ND	
	92 1,2,4-Trimethylbenzene	105		21.489				ND	7
	93 sec-Butylbenzene	105		21.740				ND	7
	94 4-Isopropyltoluene	119		21.959				ND	
	95 1,3-Dichlorobenzene	146		21.959				ND	7
	96 1,4-Dichlorobenzene	146		22.103				ND	7
	97 Benzyl chloride	91		22.295				ND	7
	98 n-Butylbenzene	91		22.546				ND	7
	100 1,2-Dichlorobenzene	146		22.626				ND	7
	102 1,2,4-Trichlorobenzene	180		24.942				ND	7
	103 Hexachlorobutadiene	225		25.150				ND	7
	104 Naphthalene	128		25.348				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00011 Amount Added: 40.00 Units: mL Run Reagent

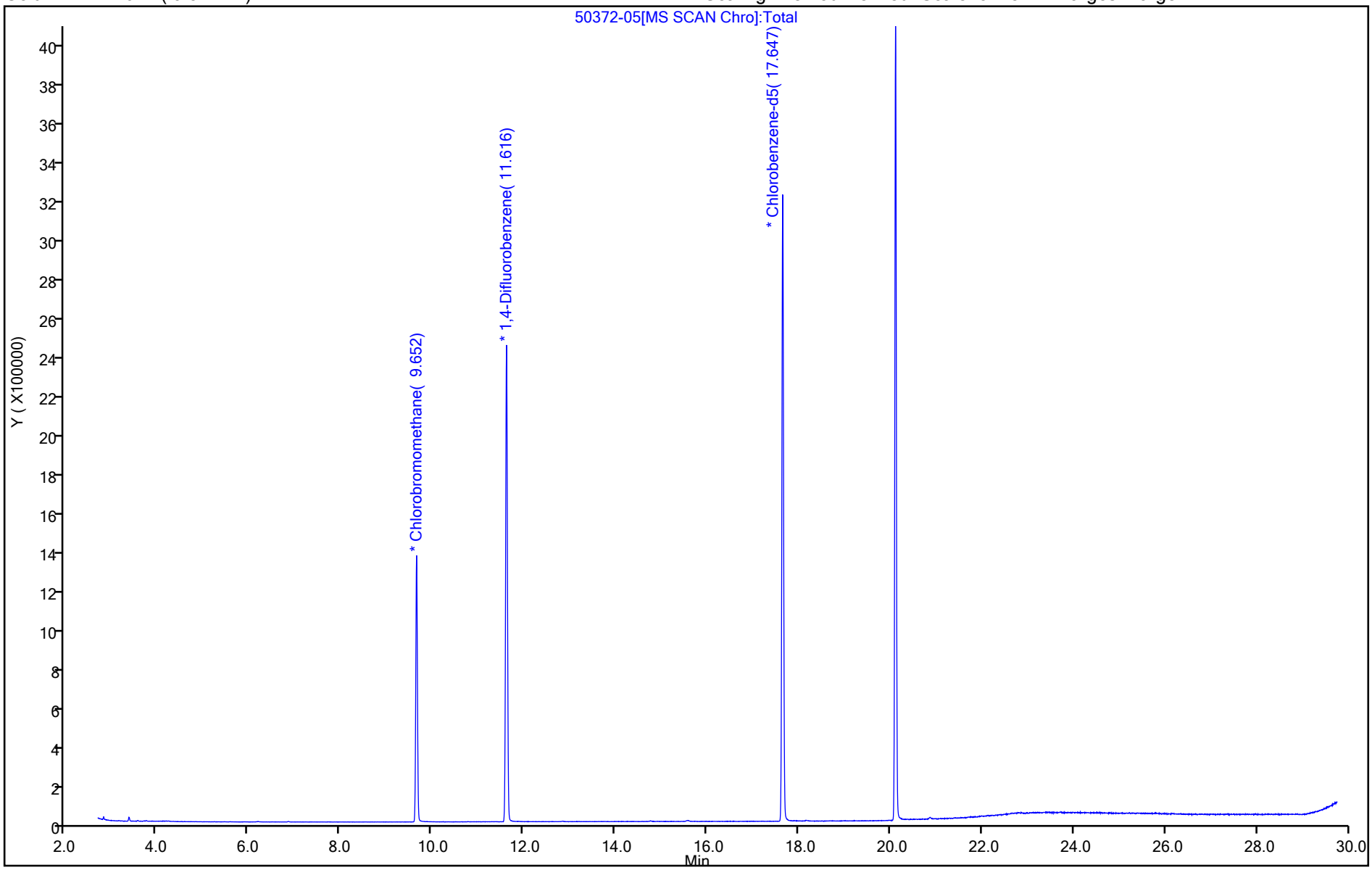
Report Date: 14-Apr-2022 08:34:24 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20220413-50372.b\50372-05.D

Injection Date:	13-Apr-2022 11:04:30	Instrument ID:	CHC.i	Operator ID:	vtp
Lims ID:	200-62949-A-2	Lab Sample ID:	200-62949-2	Worklist Smp#:	5
Client ID:	3559				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



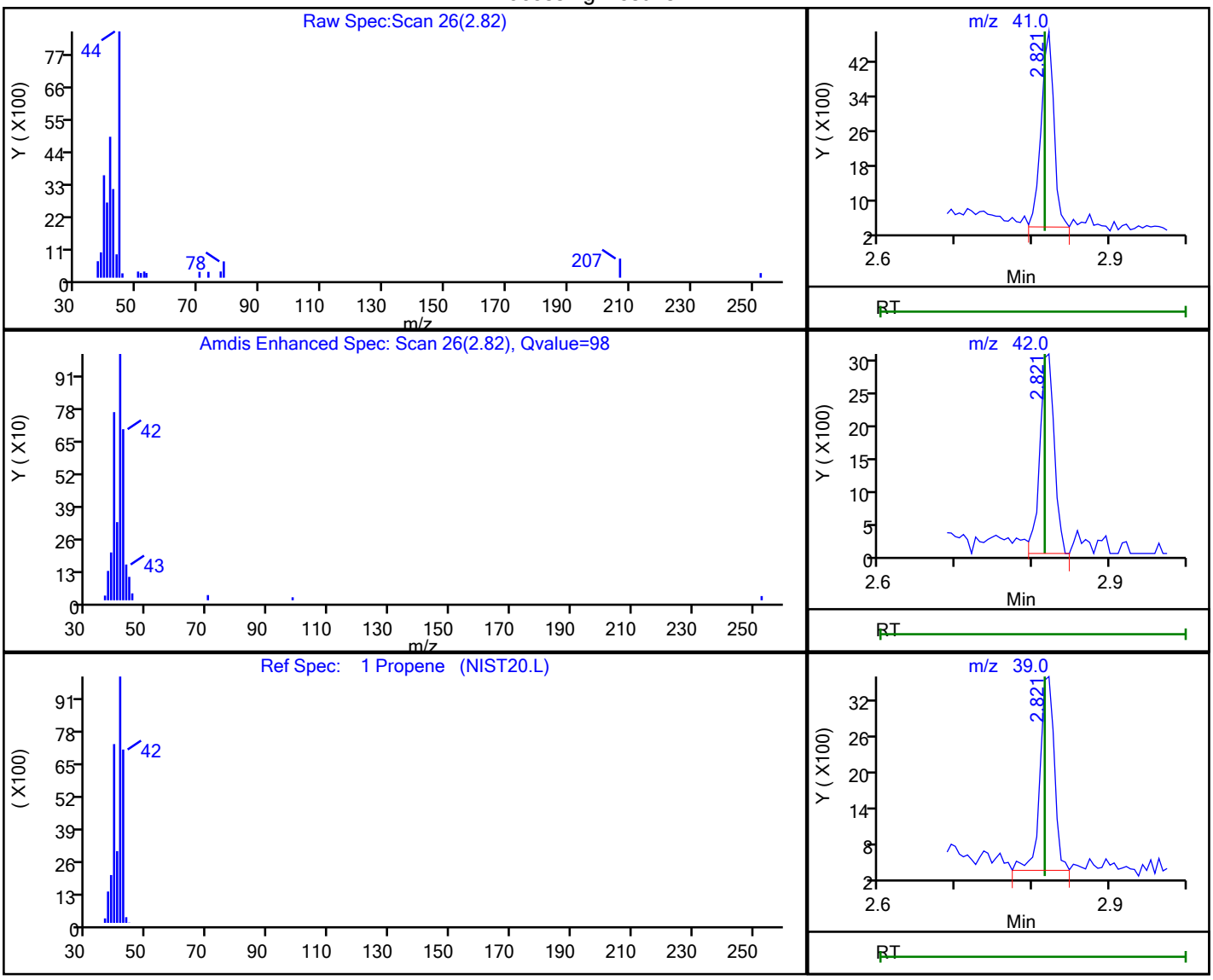
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220413-50372.b\50372-05.D				
Injection Date:	13-Apr-2022 11:04:30	Instrument ID:	CHC.i		
Lims ID:	200-62949-A-2	Lab Sample ID:	200-62949-2		
Client ID:	3559				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	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
2.82	41.00	5212	0.140462
2.82	42.00	3979	
2.82	39.00	4182	

Reviewer: phamvu, 14-Apr-2022 08:32:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

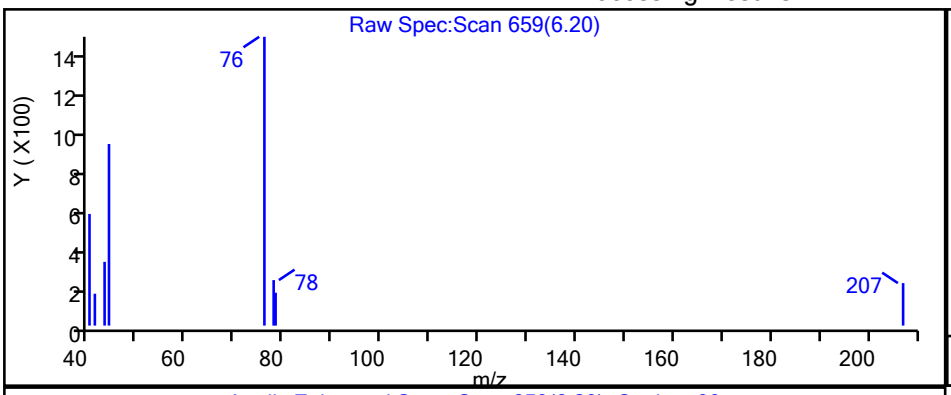
User Disabled Compound Report

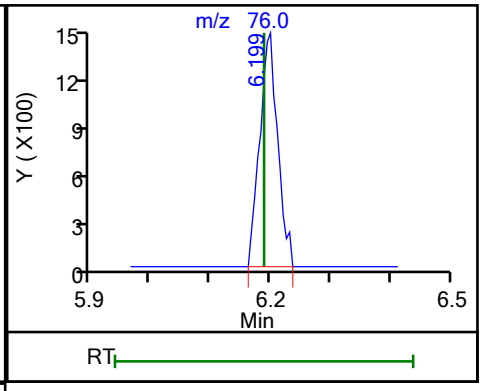
Eurofins Burlington

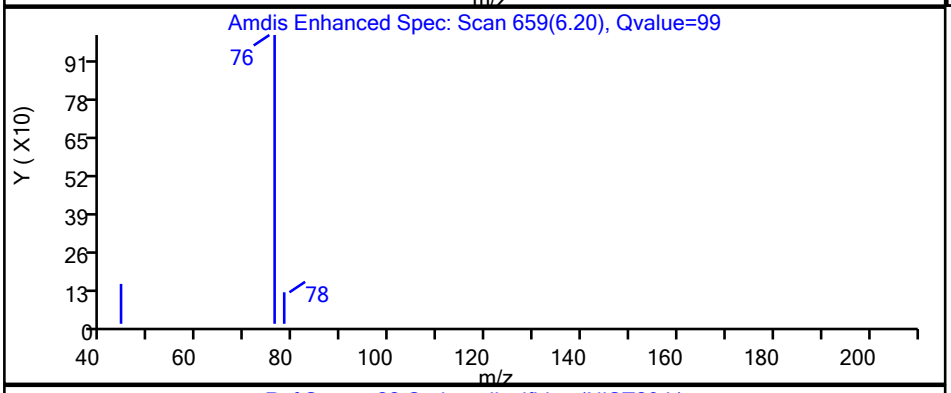
Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220413-50372.b\50372-05.D				
Injection Date:	13-Apr-2022 11:04:30	Instrument ID:	CHC.i		
Lims ID:	200-62949-A-2	Lab Sample ID:	200-62949-2		
Client ID:	3559				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

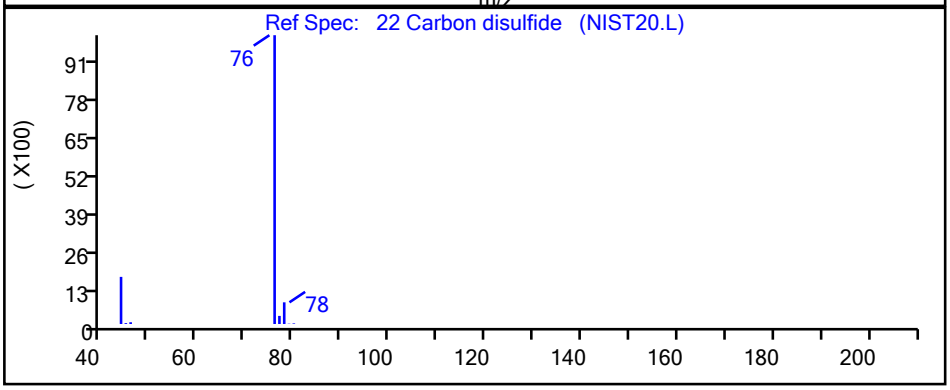
22 Carbon disulfide, CAS: 75-15-0

Processing Results









RT	Mass	Response	Amount
6.20	76.00	3003	0.028634

Reviewer: phamvu, 14-Apr-2022 08:32:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

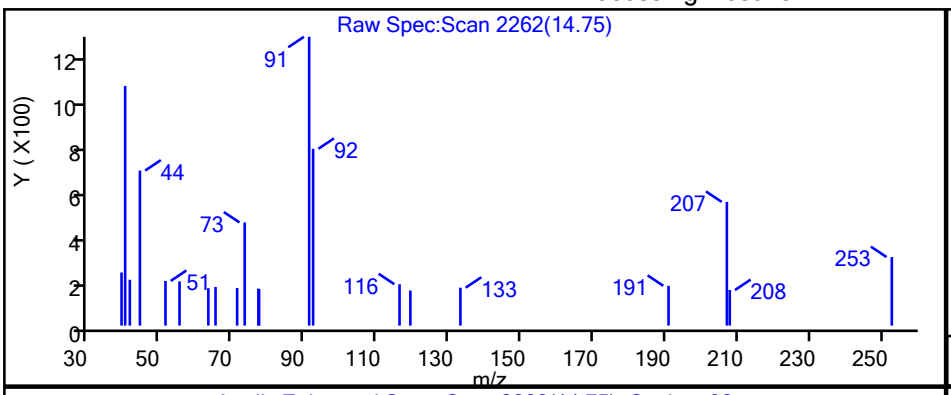
User Disabled Compound Report

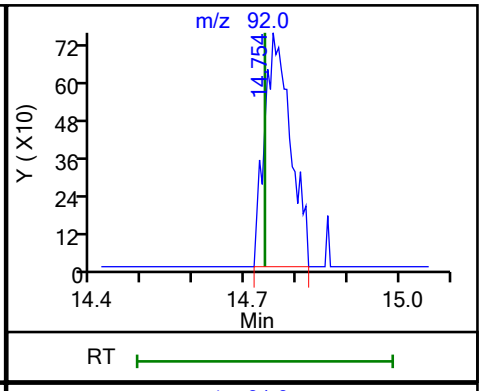
Eurofins Burlington

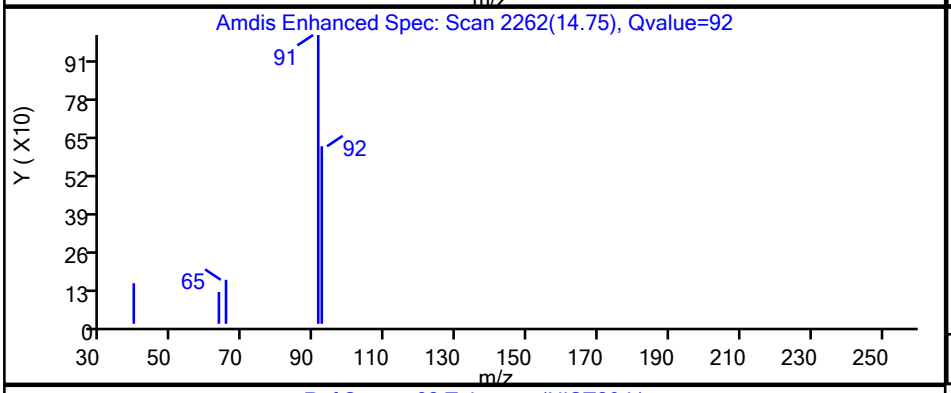
Data File:	\\chromfs\Burlington\ChromData\CHC.i\20220413-50372.b\50372-05.D				
Injection Date:	13-Apr-2022 11:04:30	Instrument ID:	CHC.i		
Lims ID:	200-62949-A-2	Lab Sample ID:	200-62949-2		
Client ID:	3559				
Operator ID:	vtp	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

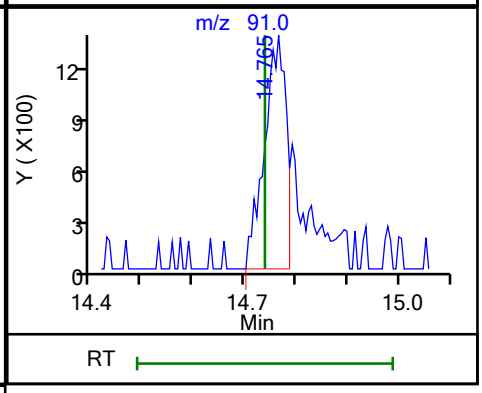
62 Toluene, CAS: 108-88-3

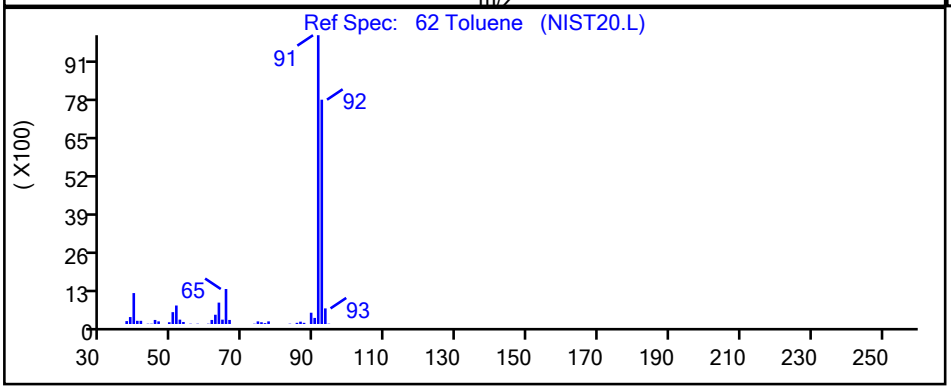
Processing Results











RT	Mass	Response	Amount
14.75	92.00	2661	0.020504
14.76	91.00	3858	

Reviewer: phamvu, 14-Apr-2022 08:32:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62952-1

SDG No.:

Client Sample ID: 4557 Lab Sample ID: 200-62952-3

Matrix: Air Lab File ID: 50394-005.d

Analysis Method: TO-15 Date Collected: 04/10/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 11:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178757 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.040	U	0.040	0.020
100-42-5	Styrene	0.040	U	0.040	0.0064
10061-01-5	1,3-Dichloropropene, cis-	0.040	U	0.040	0.0040
10061-02-6	1,3-Dichloropropene, trans-	0.040	U	0.040	0.018
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.019
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.0092
106-99-0	1,3-Butadiene	0.040	U	0.040	0.0076
107-05-1	Allyl chloride	0.10	U	0.10	0.022
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.030
108-10-1	Methyl isobutyl ketone (MIBK)	0.10	U	0.10	0.038
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.0088
108-88-3	Toluene	0.040	U	0.040	0.019
108-90-7	Chlorobenzene	0.040	U	0.040	0.0086
109-99-9	Tetrahydrofuran	1.0	U	1.0	0.24
110-54-3	Hexane	0.10	U	0.10	0.046
110-82-7	Cyclohexane	0.040	U	0.040	0.0070
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.038
123-91-1	1,4-Dioxane	0.040	U	0.040	0.032
124-48-1	Dibromochloromethane	0.040	U	0.040	0.0062
127-18-4	Tetrachloroethene	0.040	U	0.040	0.0054
142-82-5	n-Heptane	0.040	U	0.040	0.012
156-59-2	1,2-Dichloroethene, cis-	0.040	U	0.040	0.0066
156-60-5	1,2-Dichloroethene, trans-	0.040	U	0.040	0.018
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.016
179601-23-1	m,p-Xylene	0.10	U	0.10	0.034
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.0070
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.018
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.0064
593-60-2	Vinyl bromide	0.040	U	0.040	0.017
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.010
64-17-5	Ethanol	1.0	U	1.0	0.13
67-63-0	Isopropanol	1.0	U	1.0	0.20
67-64-1	Acetone	1.0	U	1.0	0.40
67-66-3	Chloroform	0.040	U	0.040	0.0092

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62952-1

SDG No.:

Client Sample ID: 4557 Lab Sample ID: 200-62952-3

Matrix: Air Lab File ID: 50394-005.d

Analysis Method: TO-15 Date Collected: 04/10/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2022 11:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178757 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.040	U	0.040	0.015
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.0078
74-83-9	Bromomethane	0.040	U	0.040	0.010
74-87-3	Chloromethane	0.10	U	0.10	0.024
75-00-3	Chloroethane	0.10	U	0.10	0.050
75-01-4	Vinyl chloride	0.040	U	0.040	0.0056
75-09-2	Methylene Chloride	0.10	U	0.10	0.034
75-15-0	Carbon disulfide	0.10	U	0.10	0.026
75-25-2	Bromoform	0.040	U	0.040	0.012
75-27-4	Bromodichloromethane	0.040	U	0.040	0.0080
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.0058
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.0058
75-65-0	tert-Butyl alcohol	1.0	U	1.0	0.24
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.010
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.022
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.040	U	0.040	0.011
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.011
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.017
78-93-3	Methyl ethyl ketone (MEK)	0.10	U	0.10	0.034
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.0068
79-01-6	Trichloroethene	0.040	U	0.040	0.0048
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.0086
80-62-6	Methyl methacrylate	0.10	U	0.10	0.032
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.0062
91-20-3	Naphthalene	0.10	U	0.10	0.034
95-47-6	Xylene, o-	0.040	U	0.040	0.019
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.0096
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.014
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.0094
591-78-6	2-Hexanone	0.10	U	0.10	0.040

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220414-50394.b\50394-005.d
Lims ID: 200-62952-A-3
Client ID: 4557
Sample Type: Client
Inject. Date: 14-Apr-2022 11:04:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050394-005
Operator ID: wrd Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20220414-50394.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 14-Apr-2022 13:36:57 Calib Date: 17-Feb-2022 08:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20220216-49589.b\49589-018.d

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1651

First Level Reviewer: bourdeaut Date: 14-Apr-2022 13:39:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		3.987				ND	
	2 Dichlorodifluoromethane	85		4.078				ND	
	3 Chlorodifluoromethane	51		4.126				ND	
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.437				ND	
	5 Chloromethane	50		4.544				ND	
	6 Vinyl chloride	62		4.854				ND	
	7 Butane	43		4.859				ND	
	8 Butadiene	54		4.971				ND	
	9 Bromomethane	94		5.678				ND	
	10 Chloroethane	64		5.956				ND	
	13 Vinyl bromide	106		6.373				ND	
	14 Trichlorofluoromethane	101		6.539				ND	
	16 Ethanol	45		6.935				ND	
	20 1,1-Dichloroethene	96		7.604				ND	
	21 112TCTFE	101		7.652				ND	
	22 Acetone	43		7.700				ND	7
	23 Isopropyl alcohol	45		8.005				ND	7
	24 Carbon disulfide	76	8.010	8.010	0.000	97	2030	0.0448	
	26 3-Chloro-1-propene	41		8.310				ND	
	27 Methylene Chloride	49		8.540				ND	7
	28 2-Methyl-2-propanol	59		8.780				ND	
	30 trans-1,2-Dichloroethene	61		9.037				ND	
	31 Methyl tert-butyl ether	73		9.064				ND	
	32 Hexane	57		9.551				ND	
	33 1,1-Dichloroethane	63		9.802				ND	
	34 Vinyl acetate	43		9.818				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	36 2-Butanone (MEK)	72		10.771				ND	
	37 cis-1,2-Dichloroethene	96		10.792				ND	
	38 Ethyl acetate	88		10.867				ND	
*	39 Chlorobromomethane	128	11.193	11.199	-0.006	96	100098	10.0	
	40 Tetrahydrofuran	42		11.257				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Chloroform	83		11.380				ND	
	42 1,1,1-Trichloroethane	97		11.685				ND	
	43 Cyclohexane	84		11.824				ND	
	44 Carbon tetrachloride	117		11.964				ND	
	45 Benzene	78		12.306				ND	
	46 1,2-Dichloroethane	62		12.381				ND	
	47 Isooctane	57		12.531				ND	
	48 n-Heptane	43	12.835	12.841	-0.006	84	1011	0.0317	
*	49 1,4-Difluorobenzene	114	13.044	13.050	-0.006	96	524253	10.0	
	51 Trichloroethene	95		13.478				ND	
	53 1,2-Dichloropropane	63		13.932				ND	
	54 Methyl methacrylate	69		14.034				ND	
	55 1,4-Dioxane	88		14.082				ND	
	57 Dibromomethane	174		14.087				ND	
	58 Dichlorobromomethane	83		14.403				ND	
	59 cis-1,3-Dichloropropene	75		15.205				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.478				ND	
	62 Toluene	92		15.847				ND	
	66 trans-1,3-Dichloropropene	75		16.265				ND	
	67 1,1,2-Trichloroethane	83		16.639				ND	
	68 Tetrachloroethene	166		16.837				ND	
	69 2-Hexanone	43		17.062				ND	
	70 Chlorodibromomethane	129		17.372				ND	
	71 Ethylene Dibromide	107		17.613				ND	
*	73 Chlorobenzene-d5	117	18.522	18.522	0.000	90	339897	10.0	
	74 Chlorobenzene	112		18.581				ND	
	75 Ethylbenzene	91		18.779				ND	
	76 m-Xylene & p-Xylene	106		19.041				ND	
	78 o-Xylene	106		19.812				ND	
	79 Styrene	104		19.854				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	81 Bromoform	173		20.207				ND	
	82 Isopropylbenzene	105		20.539				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.074				ND	
	85 N-Propylbenzene	91		21.277				ND	7
	86 2-Chlorotoluene	91		21.427				ND	7
	87 4-Ethyltoluene	105		21.481				ND	7
	88 1,3,5-Trimethylbenzene	105		21.577				ND	7
	91 tert-Butylbenzene	119		22.069				ND	
	92 1,2,4-Trimethylbenzene	105		22.160				ND	
	93 sec-Butylbenzene	105		22.401				ND	
	94 1,3-Dichlorobenzene	146		22.572				ND	
	95 4-Isopropyltoluene	119		22.620				ND	
	96 1,4-Dichlorobenzene	146		22.716				ND	
	97 Benzyl chloride	91		22.861				ND	
	98 n-Butylbenzene	91		23.177				ND	7
	99 1,2-Dichlorobenzene	146	23.203	23.198	0.005	1	300	0.009498	
	102 1,2,4-Trichlorobenzene	180		25.584				ND	
	103 Hexachlorobutadiene	225		25.825				ND	
	104 Naphthalene	128		26.044				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

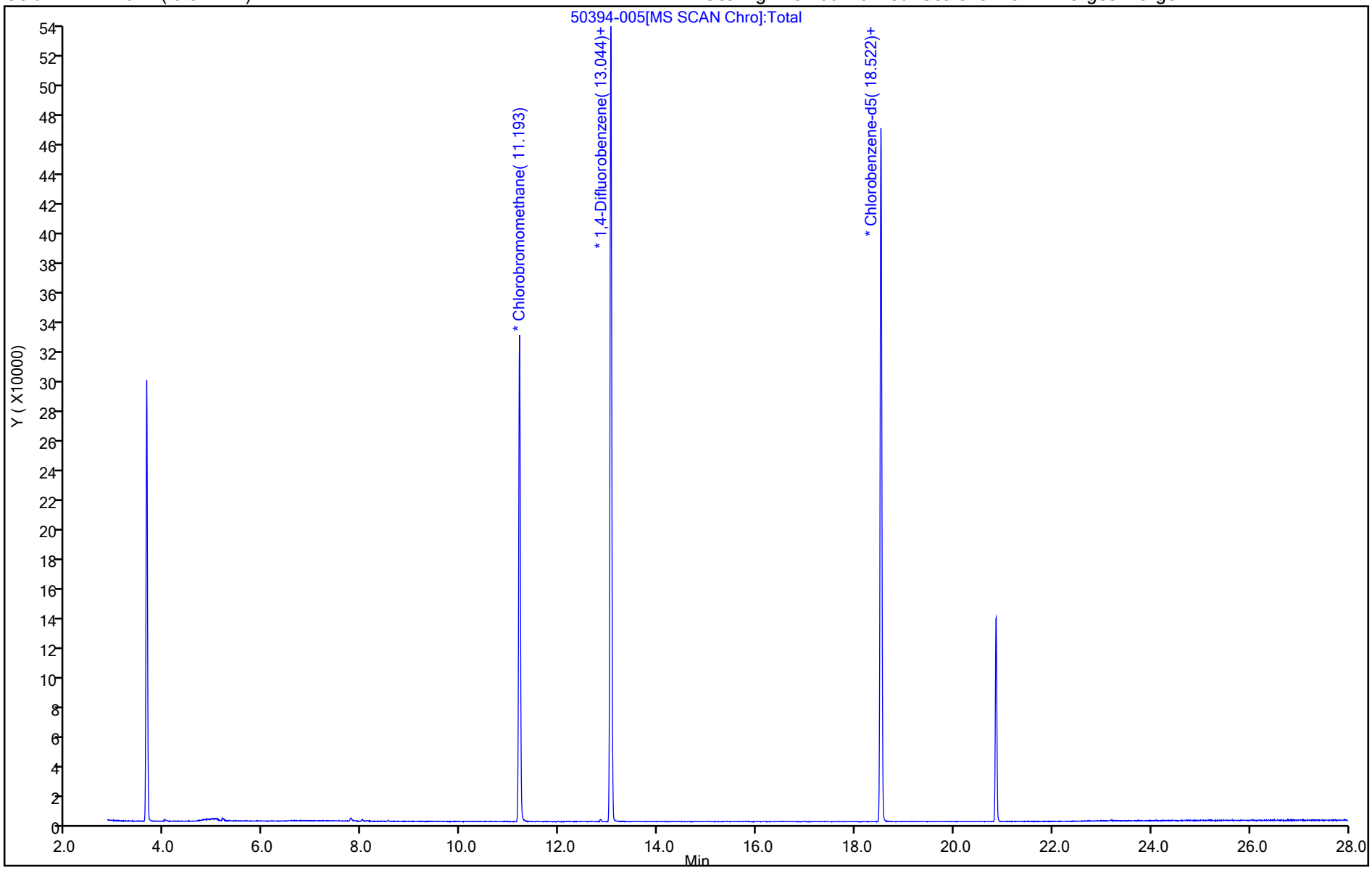
Report Date: 14-Apr-2022 13:39:45 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20220414-50394.b\50394-005.d

Injection Date:	14-Apr-2022 11:04:30	Instrument ID:	CHW.i	Operator ID:	wrd
Lims ID:	200-62952-A-3	Lab Sample ID:	200-62952-3	Worklist Smp#:	5
Client ID:	4557				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_TO3_MasterMethod_W	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: Eurofins Burlington Job No.: 200-62960-1

SDG No.:

Client Sample ID: 3028 Lab Sample ID: 200-62960-4

Matrix: Air Lab File ID: 200-50415-005.D

Analysis Method: TO-15 Date Collected: 04/12/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/15/2022 11:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178812 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	0.10	U	0.10	0.10
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62960-1

SDG No.:

Client Sample ID: 3028 Lab Sample ID: 200-62960-4

Matrix: Air Lab File ID: 200-50415-005.D

Analysis Method: TO-15 Date Collected: 04/12/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/15/2022 11:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178812 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-62960-1

SDG No.:

Client Sample ID: 3028 Lab Sample ID: 200-62960-4

Matrix: Air Lab File ID: 200-50415-005.D

Analysis Method: TO-15 Date Collected: 04/12/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/15/2022 11:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 178812 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D
Lims ID: 200-62960-A-4
Client ID: 3028
Sample Type: Client
Inject. Date: 15-Apr-2022 11:45:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0050415-005
Misc. Info.: 62960-4
Operator ID: wrd Instrument ID: CHG.i

Method: \\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Apr-2022 11:37:28 Calib Date: 15-Mar-2022 01:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20220314-49936.b\200-49936-014.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: desjardinsb Date: 17-Apr-2022 11:37:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.035				ND	
2 Dichlorodifluoromethane	85		3.089				ND	
3 Chlorodifluoromethane	51		3.099				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.281				ND	
5 Chloromethane	50		3.340				ND	
6 Vinyl chloride	62		3.522				ND	
7 Butane	43		3.533				ND	
8 Butadiene	54		3.586				ND	
9 Bromomethane	94		4.014				ND	
10 Chloroethane	64		4.185				ND	
12 Vinyl bromide	106		4.479				ND	
13 Trichlorofluoromethane	101		4.608				ND	
15 Ethanol	45		4.795				ND	
19 Acetone	43		5.410				ND	
18 1,1-Dichloroethene	96		5.416				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		5.469				ND	
22 Isopropyl alcohol	45		5.651				ND	
23 Carbon disulfide	76		5.785				ND	
25 3-Chloro-1-propene	41		5.983				ND	
26 Methylene Chloride	49		6.165				ND	7
27 2-Methyl-2-propanol	59		6.346				ND	
29 trans-1,2-Dichloroethene	61		6.667				ND	
30 Methyl tert-butyl ether	73		6.694				ND	7
31 Hexane	57		7.202				ND	
32 1,1-Dichloroethane	63		7.347				ND	
33 Vinyl acetate	43		7.363				ND	
34 2-Butanone (MEK)	72		8.240				ND	
35 cis-1,2-Dichloroethene	96		8.288				ND	
36 Ethyl acetate	88		8.374				ND	
* 37 Chlorobromomethane	128	8.673	8.674	-0.001	91	54971	10.0	
38 Tetrahydrofuran	42		8.775				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	39 Chloroform	83		8.855				ND	
	40 1,1,1-Trichloroethane	97		9.203				ND	
	41 Cyclohexane	84		9.401				ND	
	42 Carbon tetrachloride	117		9.519				ND	
S	43 1,2-Dichloroethene, Total	61		9.665				ND	7
	44 Benzene	78		9.829				ND	7
	45 1,2-Dichloroethane	62		9.856				ND	
	46 Isooctane	57		10.155				ND	
	47 n-Heptane	43		10.498				ND	7
*	48 1,4-Difluorobenzene	114	10.615	10.616	-0.001	97	272352	10.0	
	50 Trichloroethene	95		11.102				ND	
	51 1,2-Dichloropropane	63		11.552				ND	
	53 Dibromomethane	174		11.712				ND	
	54 Methyl methacrylate	69		11.723				ND	
	55 1,4-Dioxane	88		11.739				ND	
	56 Dichlorobromomethane	83		12.076				ND	
	58 cis-1,3-Dichloropropene	75		12.975				ND	
	59 4-Methyl-2-pentanone (MIBK)	43		13.274				ND	
	60 Toluene	92		13.702				ND	U
	65 trans-1,3-Dichloropropene	75		14.114				ND	
	66 1,1,2-Trichloroethane	83		14.510				ND	
	67 Tetrachloroethene	166		14.810				ND	
	68 2-Hexanone	43		14.992				ND	
	69 Chlorodibromomethane	129		15.302				ND	
	70 Ethylene Dibromide	107		15.543				ND	
*	71 Chlorobenzene-d5	117	16.548	16.548	0.000	95	212449	10.0	
	72 Chlorobenzene	112		16.613				ND	
	73 Ethylbenzene	91		16.853				ND	U
	74 m-Xylene & p-Xylene	106		17.137				ND	
	76 o-Xylene	106		17.934				ND	U
	77 Styrene	104		17.961				ND	
	78 Bromoform	173		18.287				ND	
	79 Isopropylbenzene	105		18.742				ND	
	80 1,1,2,2-Tetrachloroethane	83		19.277				ND	
	83 N-Propylbenzene	91		19.582				ND	7
S	82 Xylenes, Total	106		19.600				ND	7
	84 2-Chlorotoluene	91		19.721				ND	7
	85 4-Ethyltoluene	105		19.812				ND	7
	86 1,3,5-Trimethylbenzene	105		19.929				ND	7
	89 tert-Butylbenzene	119		20.464				ND	7
	90 1,2,4-Trimethylbenzene	105		20.555				ND	7
	91 sec-Butylbenzene	105		20.828				ND	7
	92 1,3-Dichlorobenzene	146		20.978				ND	U
	93 4-Isopropyltoluene	119		21.069				ND	U
	94 1,4-Dichlorobenzene	146		21.133				ND	U
	95 Benzyl chloride	91		21.278				ND	7
	96 1,2-Dichlorobenzene	146		21.641				ND	U
	97 n-Butylbenzene	91		21.663				ND	U
	100 1,2,4-Trichlorobenzene	180		23.990				ND	U
	101 Hexachlorobutadiene	225		24.268				ND	
	102 Naphthalene	128		24.402				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15GIS_00018	Amount Added:	20.00	Units: mL	Run Reagent

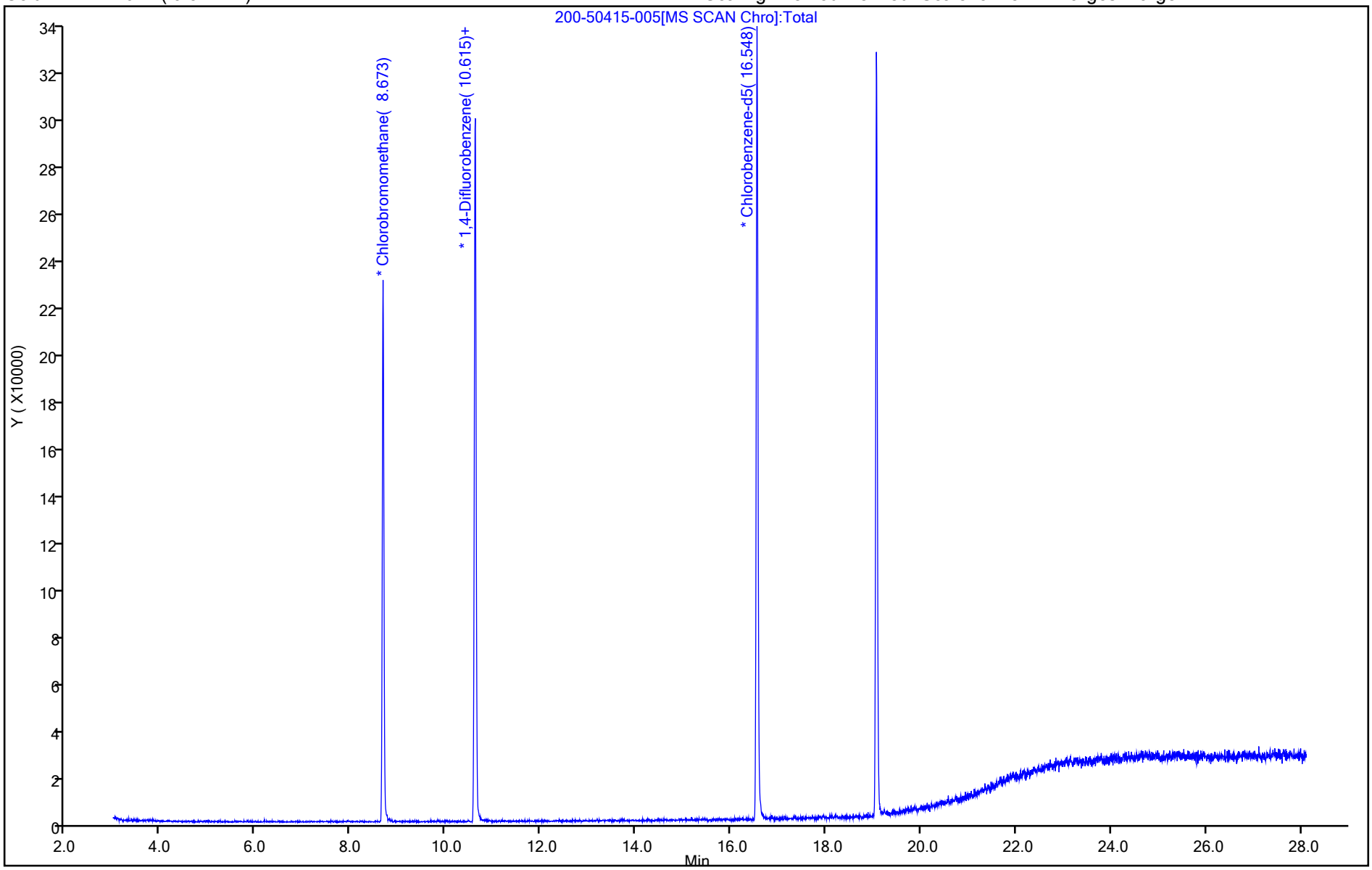
Report Date: 17-Apr-2022 11:37:45 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D

Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i	Operator ID:	wrd
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4	Worklist Smp#:	5
Client ID:	3028				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	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



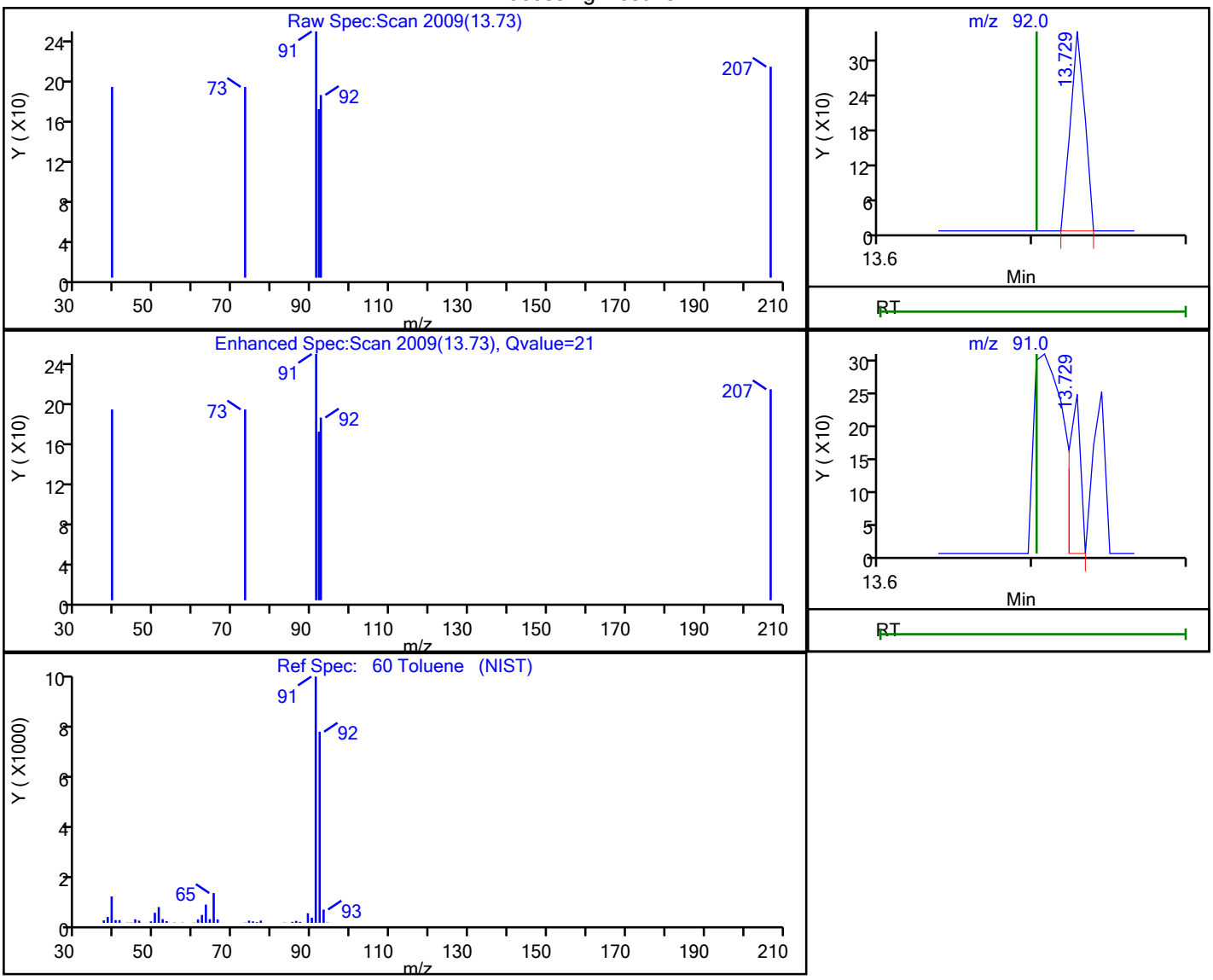
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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		

60 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
13.73	92.00	225	0.018897
13.73	91.00	129	

Reviewer: desjardinsb, 17-Apr-2022 11:36:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

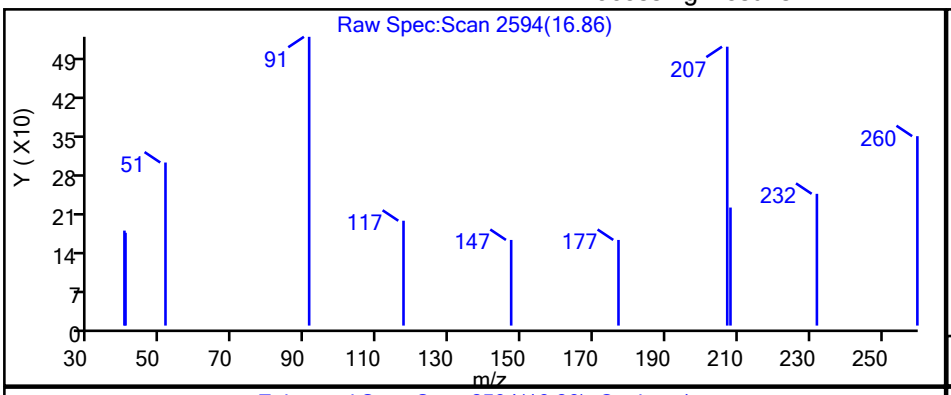
User Disabled Compound Report

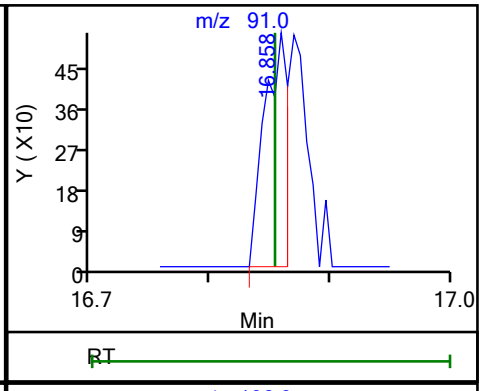
Eurofins Burlington

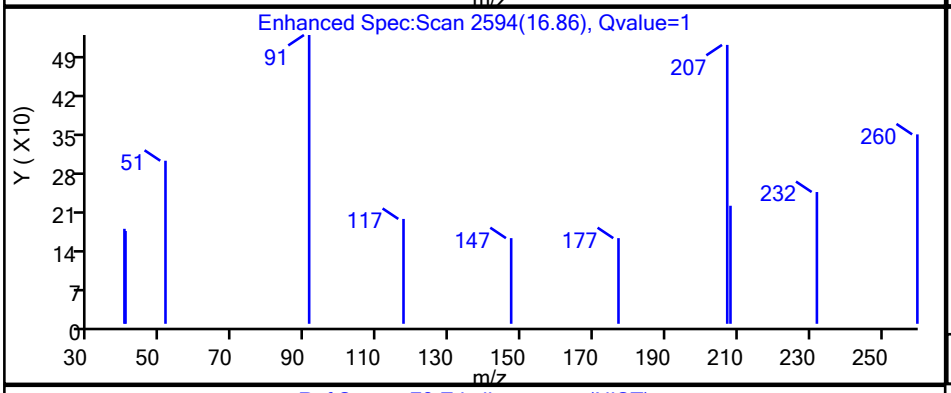
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

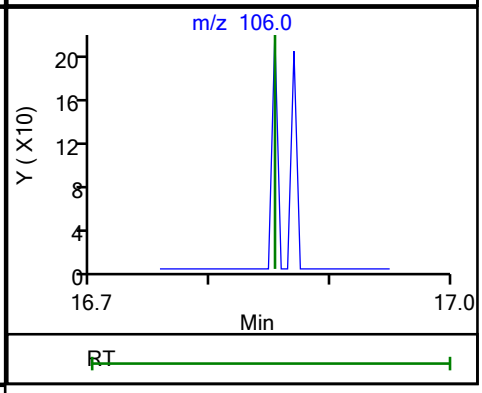
73 Ethylbenzene, CAS: 100-41-4

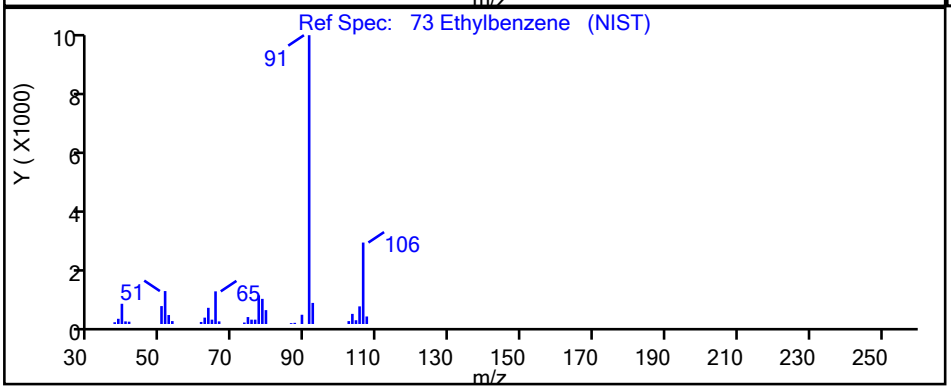
Processing Results











RT	Mass	Response	Amount
16.86	91.00	709	0.025535
16.85	106.00	0	

Reviewer: desjardinsb, 17-Apr-2022 11:36:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

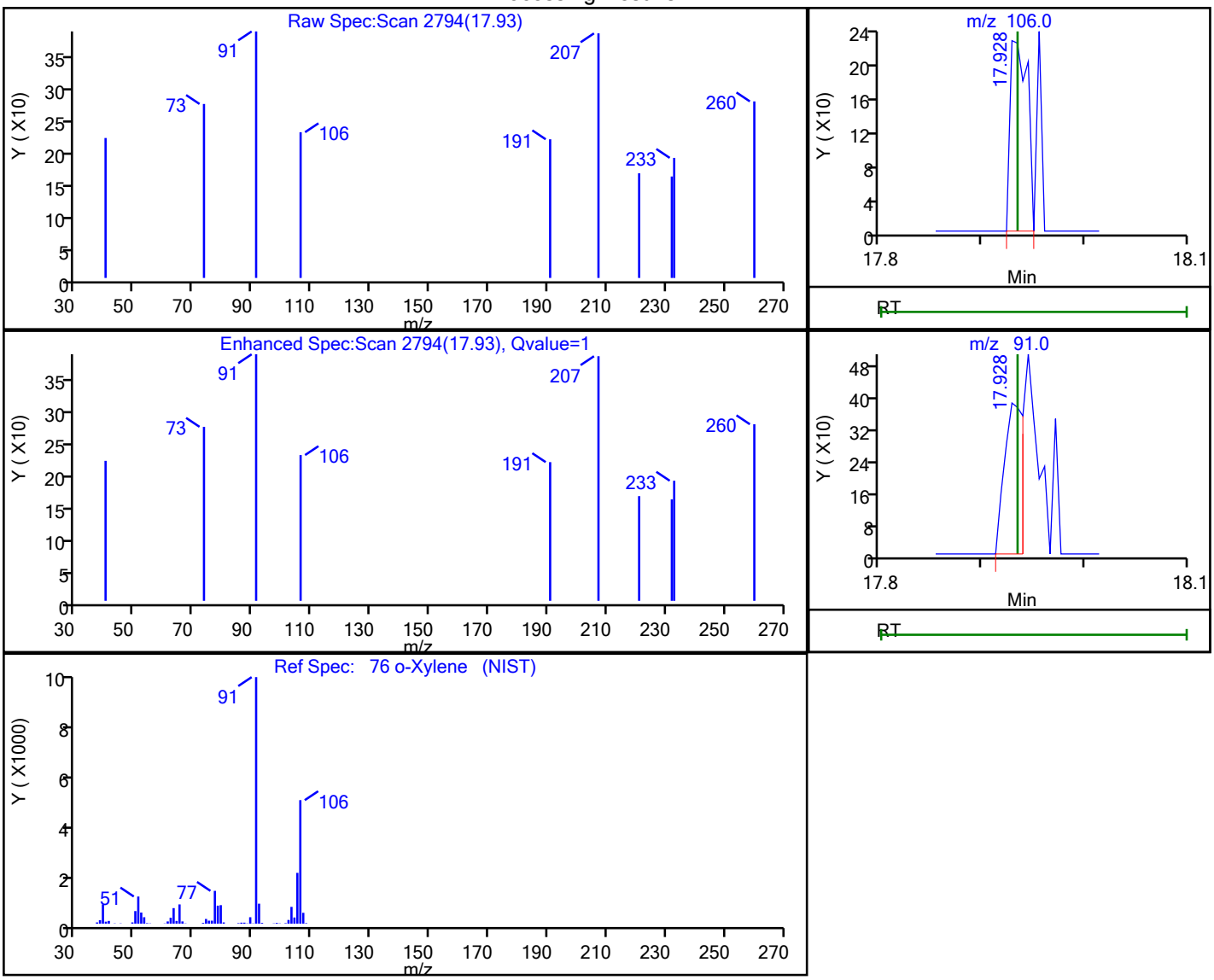
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
17.93	106.00	267	0.027662
17.93	91.00	496	

Reviewer: desjardinsb, 17-Apr-2022 11:36:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

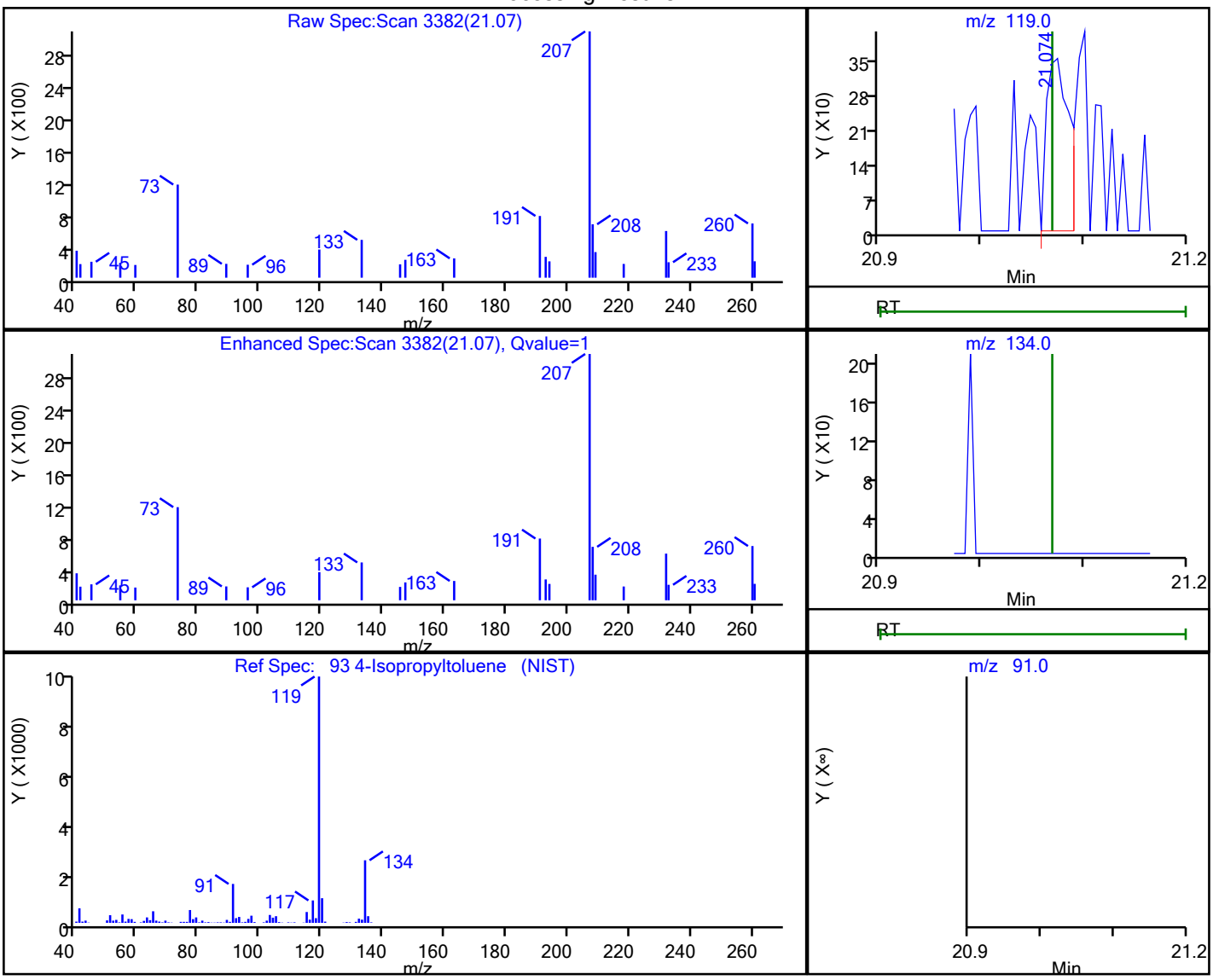
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
21.07	119.00	539	0.020626
21.07	134.00	0	
21.07	91.00	0	

Reviewer: desjardinsb, 17-Apr-2022 11:37:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

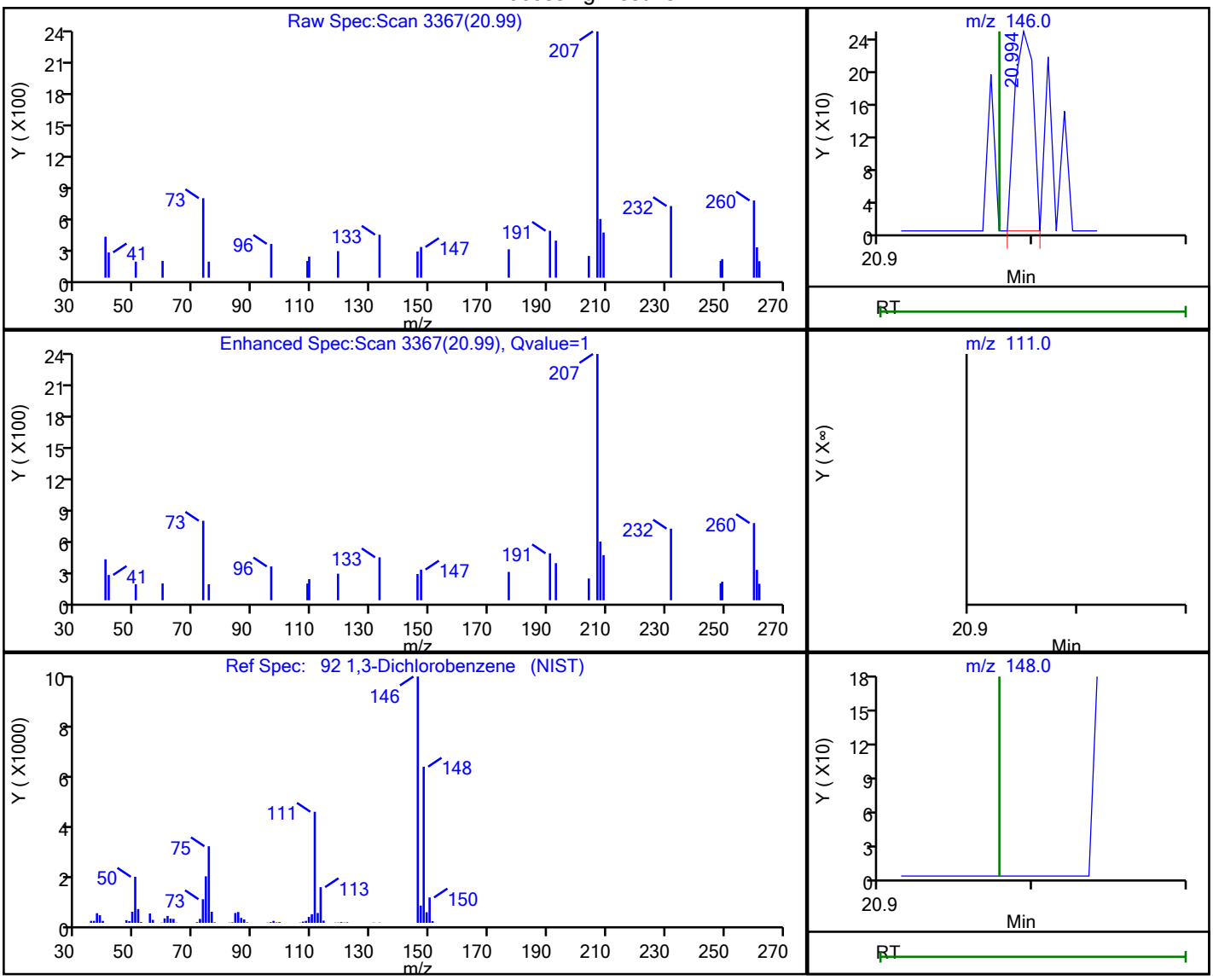
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
20.99	146.00	209	0.012637
20.98	111.00	0	
20.98	148.00	0	

Reviewer: desjardinsb, 17-Apr-2022 11:37:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

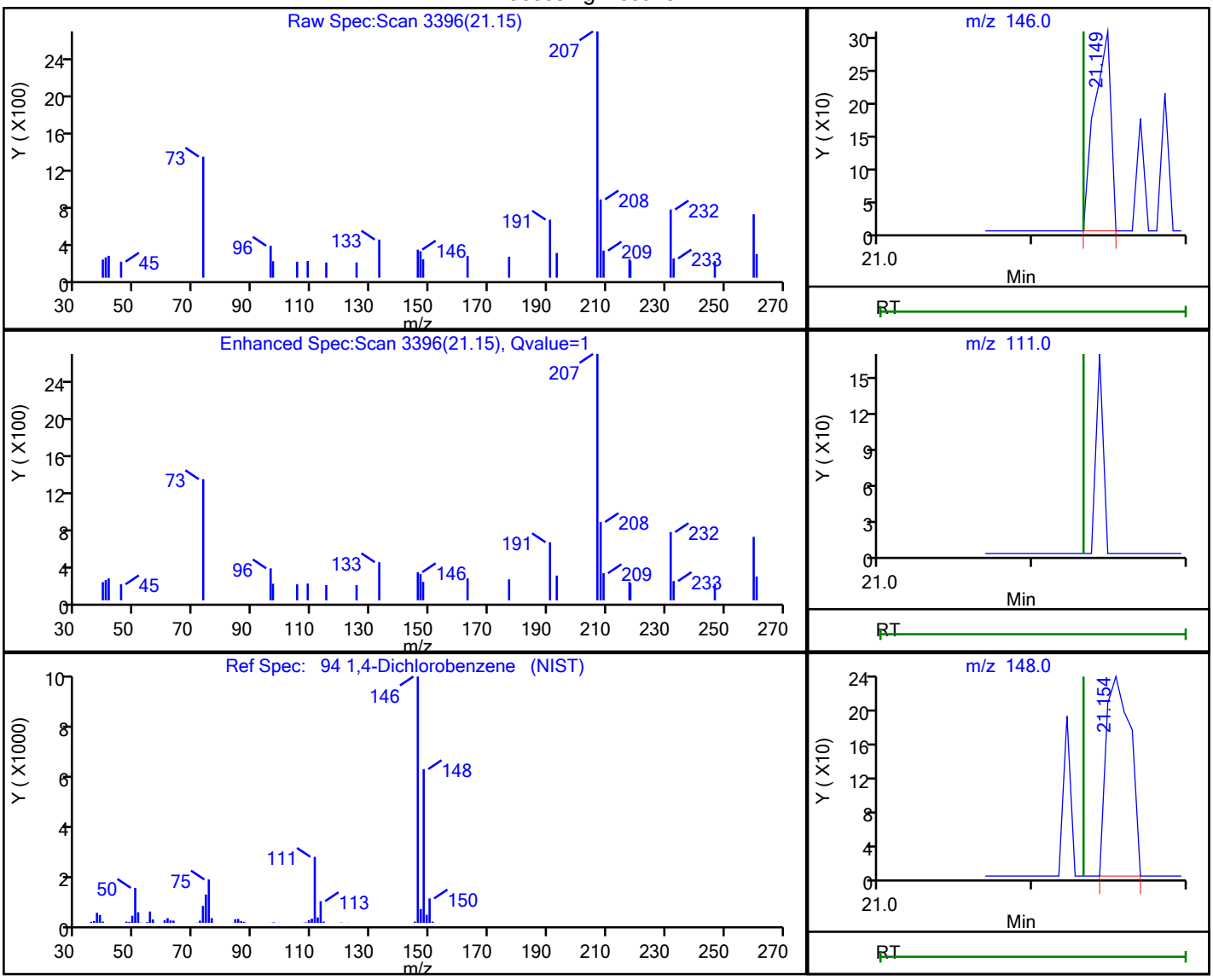
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
21.15	146.00	228	0.014796
21.13	111.00	0	
21.15	148.00	255	

Reviewer: desjardinsb, 17-Apr-2022 11:37:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

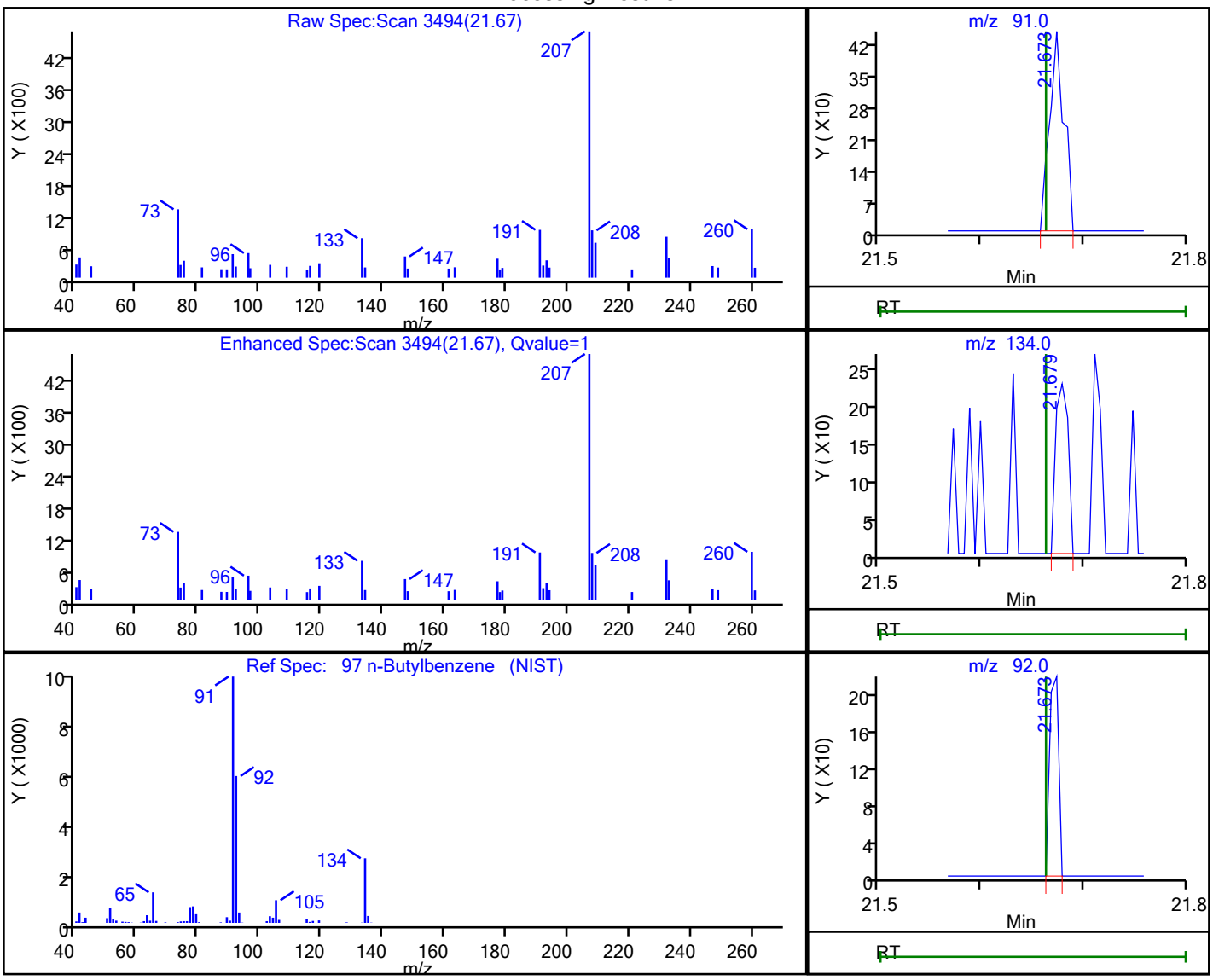
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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		

97 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
21.67	91.00	438	0.017098
21.68	134.00	194	
21.67	92.00	130	

Reviewer: desjardinsb, 17-Apr-2022 11:37:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

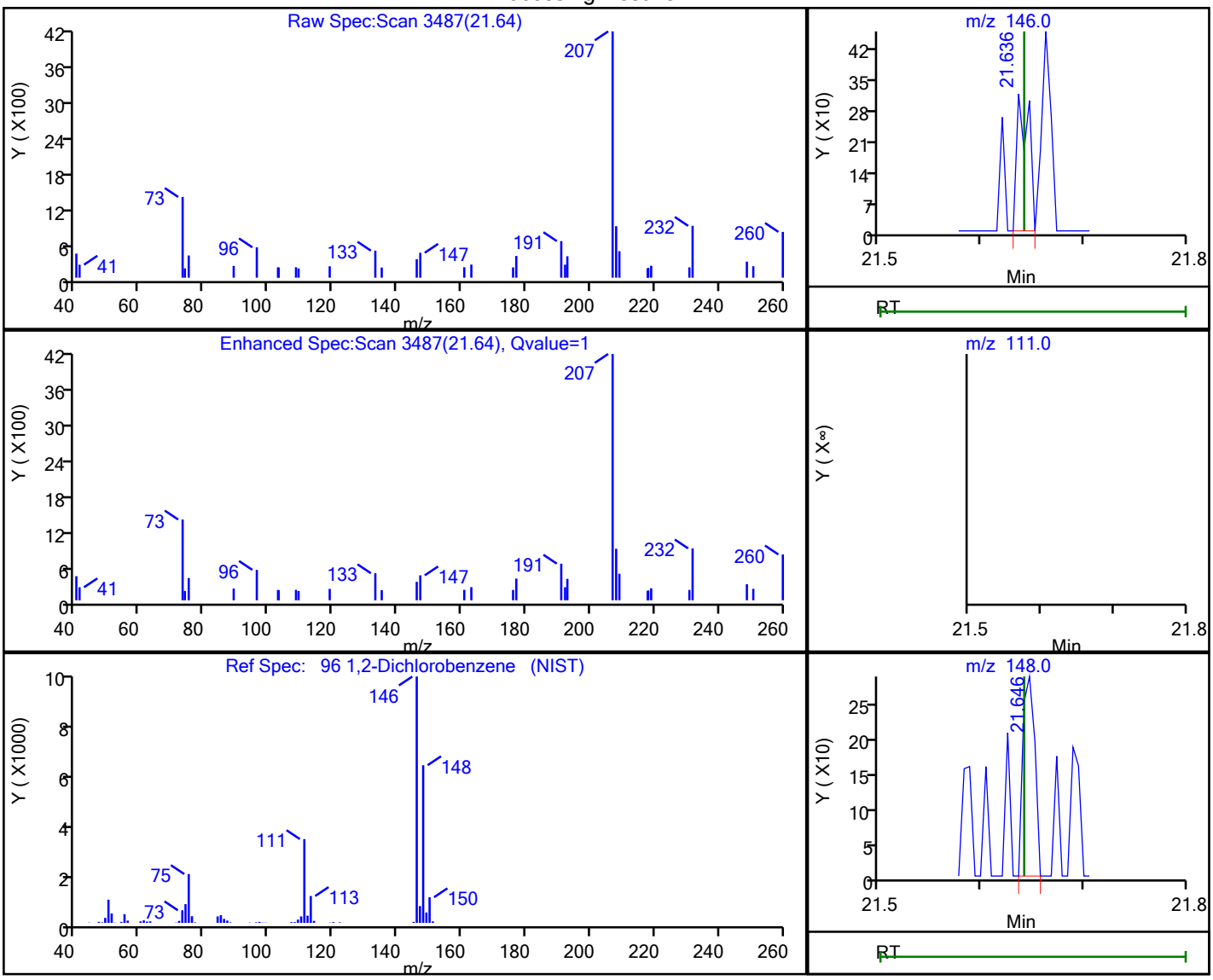
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
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		

96 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
21.64	146.00	254	0.015451
21.64	111.00	0	
21.65	148.00	235	

Reviewer: desjardinsb, 17-Apr-2022 11:37:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

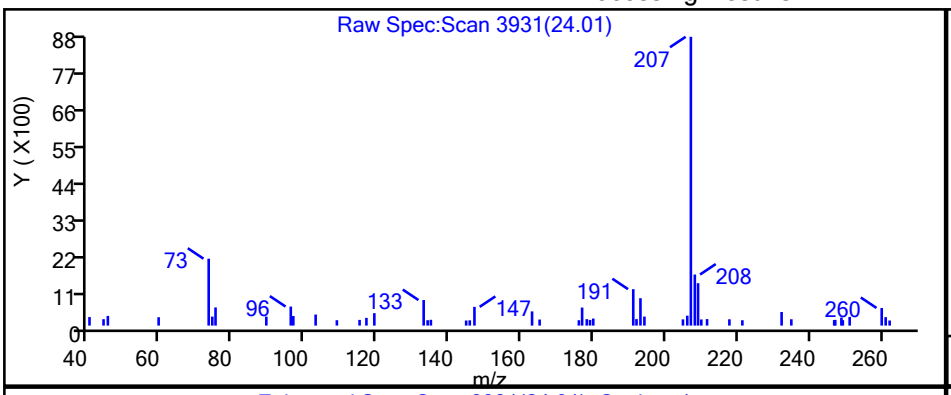
User Disabled Compound Report

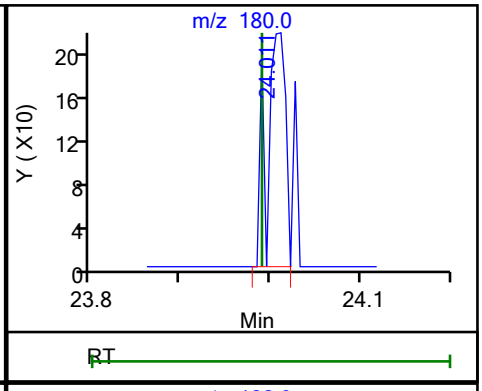
Eurofins Burlington

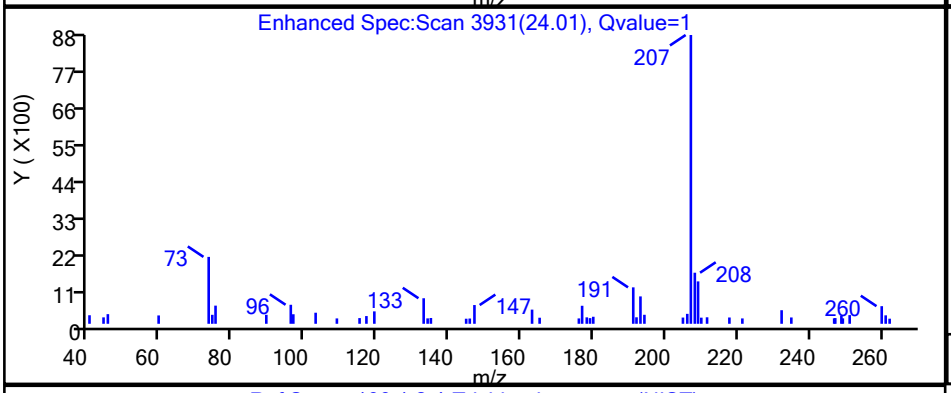
Data File:	\\chromfs\Burlington\ChromData\CHG.i\20220415-50415.b\200-50415-005.D				
Injection Date:	15-Apr-2022 11:45:30	Instrument ID:	CHG.i		
Lims ID:	200-62960-A-4	Lab Sample ID:	200-62960-4		
Client ID:	3028				
Operator ID:	wrd	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

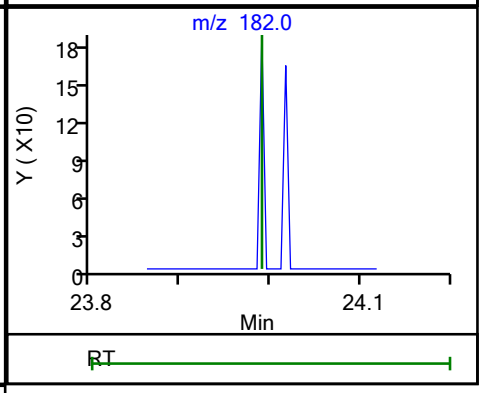
100 1,2,4-Trichlorobenzene, CAS: 120-82-1

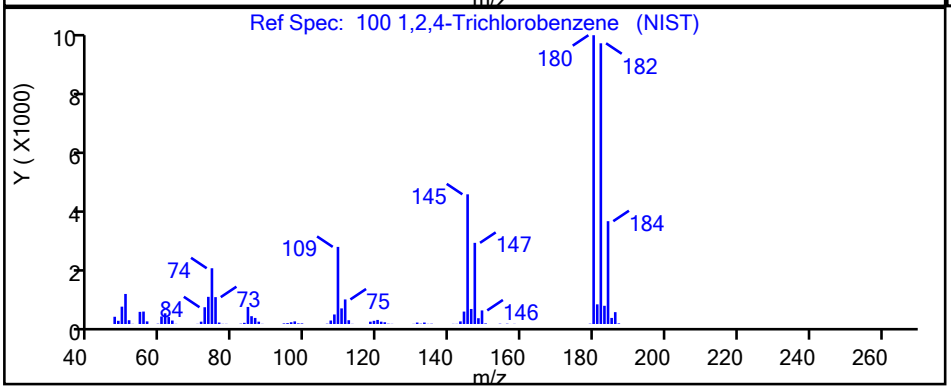
Processing Results











RT	Mass	Response	Amount
24.01	180.00	304	0.021613
23.99	182.00	0	

Reviewer: desjardinsb, 17-Apr-2022 11:37:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: AECOM
Project/Site: HUB Building Long Island City

Job No.: 200-63678-1
SDG No.: 200-63678-1

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	Pressure Gauge ID	Date	Analyst Initals
200-63678-2	6	-5.4	0.82	4.92	35.5	3.41	20.49		4.17	4.17	g24	06/07/22 15:28	VTP
200-63678-4	6	-3.8	0.87	5.24	40.3	3.74	22.45		4.29	4.29	G24	06/09/22 13:08	TPB

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)

Appendix C -Sampling Photographs

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
NYCDOT	47-25 34th Street, Long Island City, New York 11101	60602814

Photo No.	Date:
1	05/31/22

Direction Photo Taken:

South

Description:

Garage Bay access at northwest corner of DOT leasehold. Rollup door to the right provides access to conjoining building.

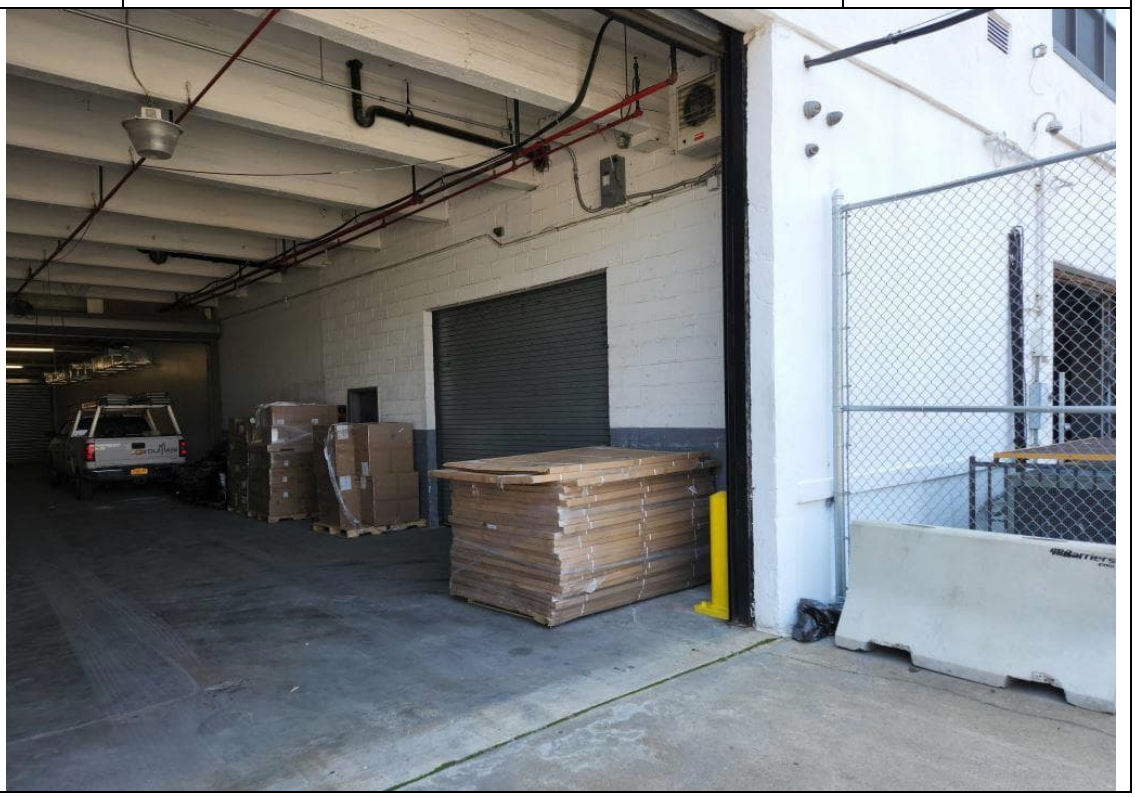


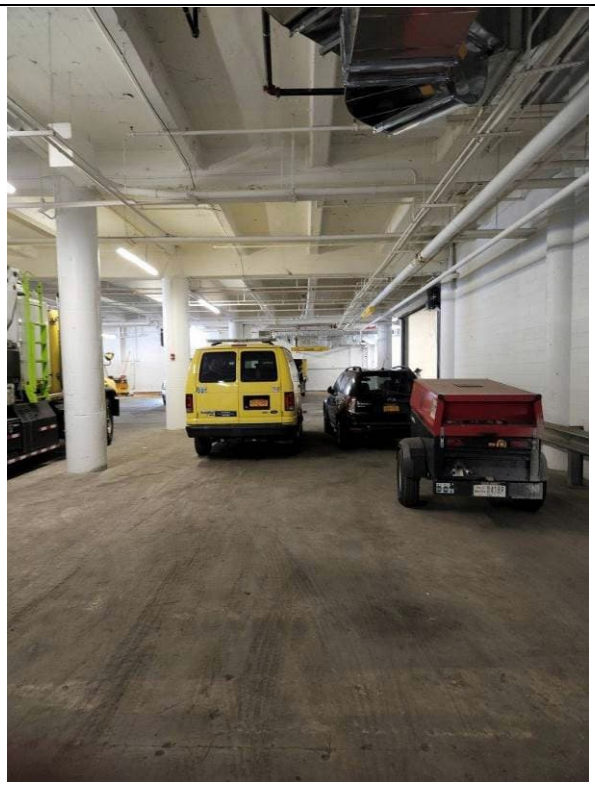
Photo No.	Date:
2	05/31/22

Direction Photo Taken:

East

Description:

Vehicles in the north side of the warehouse.



AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
NYCDOT	47-25 34th Street, Long Island City, New York 11101	60602814

Photo No.	Date:
3	05/31/22

Direction Photo Taken:

South

Description:

Vehicles in the east side of the warehouse.

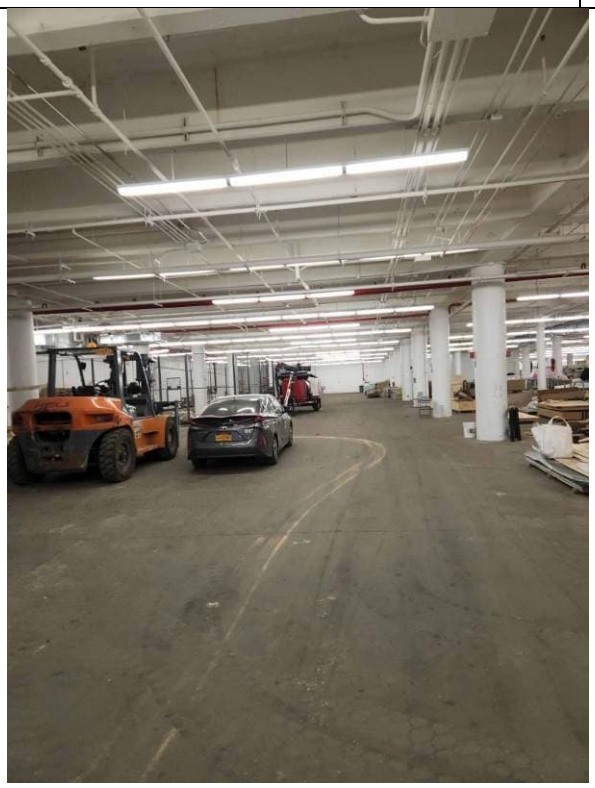


Photo No.	Date:
4	05/31/22

Direction Photo Taken:

South

Description:

Ambient Air Sample #AA-01-053122 collected at exterior loading dock on north side of building.



AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
NYCDOT	47-25 34th Street, Long Island City, New York 11101	60602814

Photo No.	Date:
5	05/31/22

Direction Photo Taken:

Northeast

Description:

Indoor Air Sample #IA-01-053122 collected west of the boiler room and in proximity to the metal covers of unknown origin.



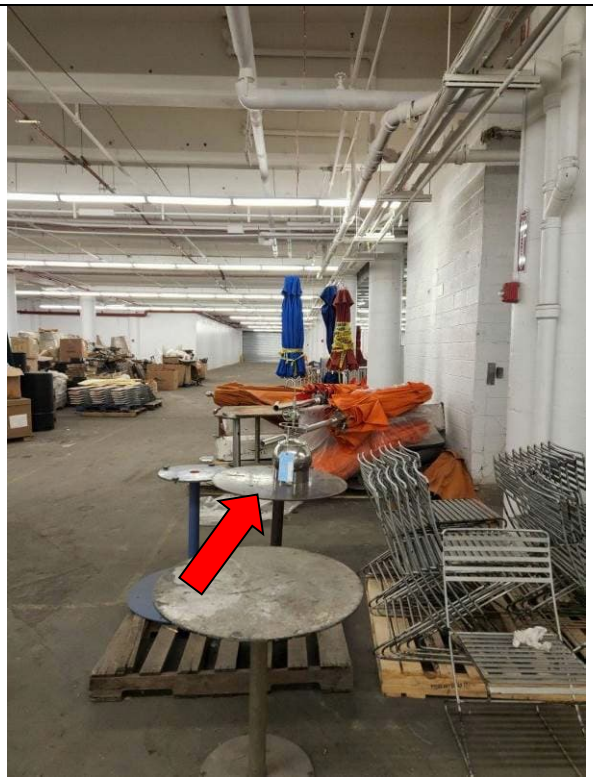
Photo No.	Date:
6	05/31/22

Direction Photo Taken:

South

Description:

Indoor Air Sample #IA-02-053122 collected northwest of the boiler room and northwest of the metal covers of unknown origin.



AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
NYCDOT	47-25 34th Street, Long Island City, New York 11101	60602814

Photo No.	Date:
7	05/31/22

Direction Photo Taken:

North

Description:

Indoor Air Sample #IA-03-053122 collected north of the boiler room and northeast of the metal covers of unknown origin.

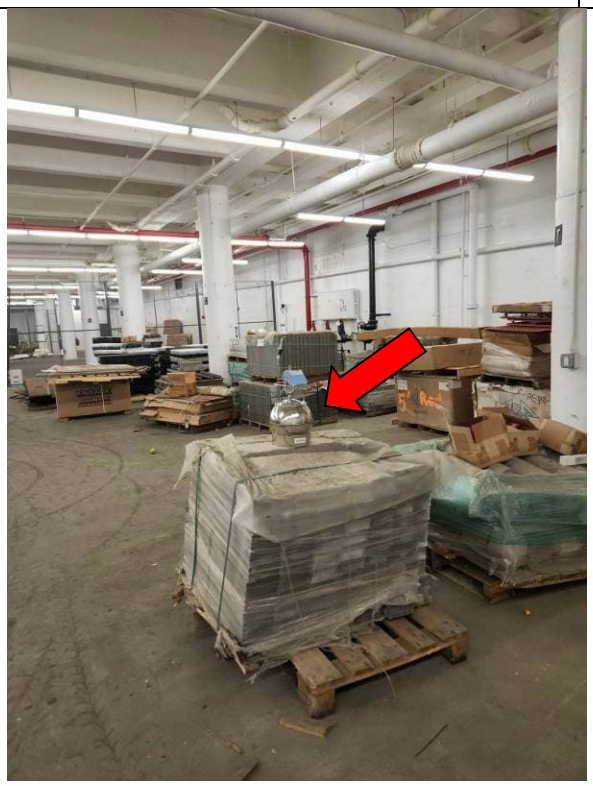


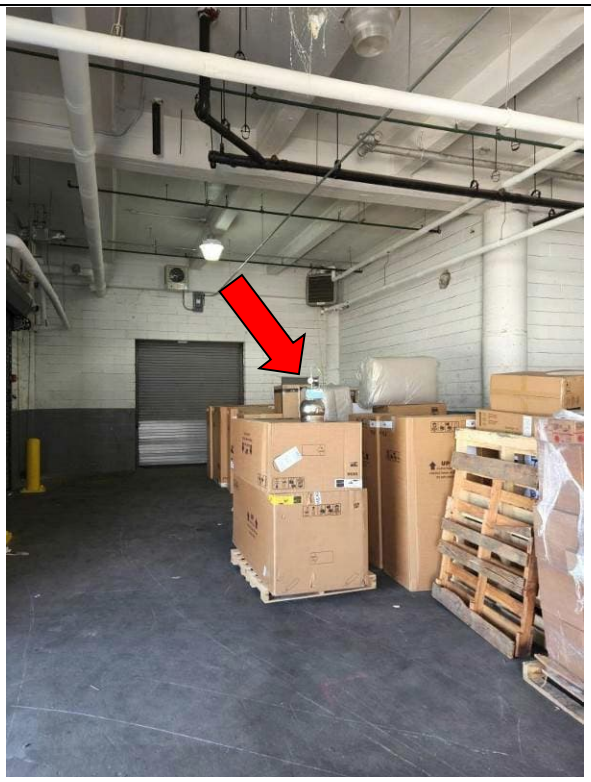
Photo No.	Date:
8	05/31/22

Direction Photo Taken:

North

Description:

Indoor Air Sample #IA-04-053122 collected on the north interior side of the building in proximity to the loading dock area where two 4,000-gallon heating oil underground storage tanks were reportedly closed in place in 2002.



AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
NYCDOT	47-25 34th Street, Long Island City, New York 11101	60602814

Photo No.	Date:
9	06/01/22

Direction Photo Taken:

South

Description:

Sub Slab Soil Vapor Sample #SV-01-060122 collected west of the boiler room and west of the metal covers of unknown origin.

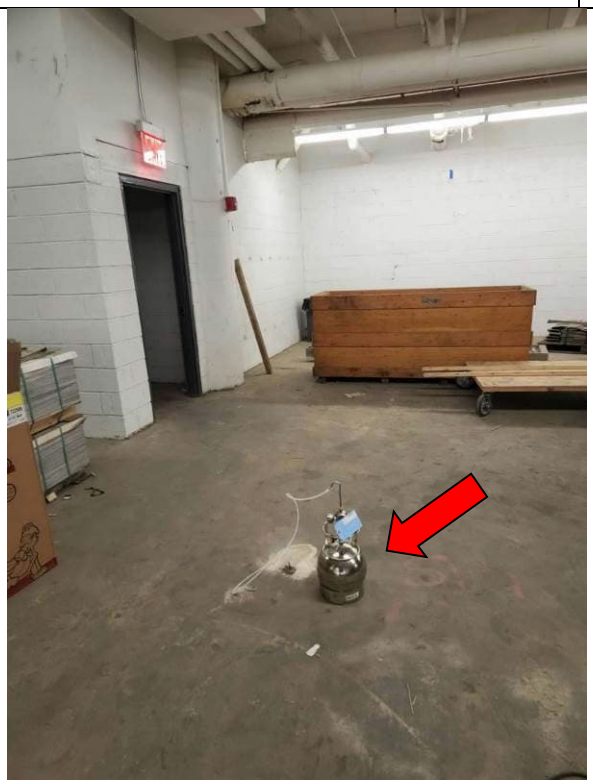


Photo No.	Date:
10	06/01/22

Direction Photo Taken:

Southwest

Description:

Sub Slab Soil Vapor Sample #SV-02-060122 collected northwest of the boiler room and northwest of the metal covers of unknown origin.



AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
NYCDOT	47-25 34th Street, Long Island City, New York 11101	60602814

Photo No.	Date:
11	06/01/22

Direction Photo Taken:

North

Description:

Sub Slab Soil Vapor Sample #SV-03-060122 collected north of the boiler room and northeast of the metal covers of unknown origin.



Photo No.	Date:
12	06/01/22

Direction Photo Taken:

North

Description:

Sub Slab Soil Vapor Sample #SV-04-060122 collected on the north interior side of the building in proximity to the loading dock area where two 4,000-gallon heating oil underground storage tanks were reportedly closed in place in 2002.

